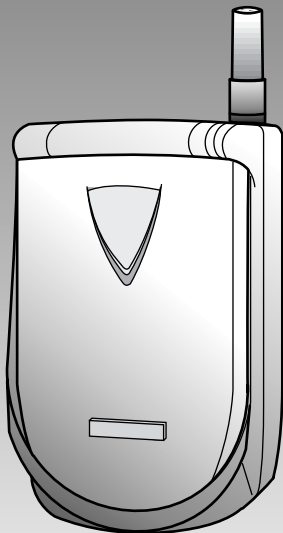


SAMSUNG

CDMA CELLULAR TELEPHONE SCH-811

SERVICE *Manual*

CDMA CELLULAR TELEPHONE



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ELECTRONICS

1. General Description

The SCH-811 cellular phone functions as both analog cellular phone working in AMPS (Advanced Mobile Phone Service) mode and 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

SCH-811 is composed of main handset, rapid charger, three batteries (1600 mAh, 1000 mAh, 550mAh), hands-free kit, car adaptor, and travel charger. Hands-Free Kit is designed to be operated in full-duplex mode taking turn-around delay between the phone and the system into account.

2. Specification

2-1 General

Frequency Range	Digital Mode	Analog Mode
Transmitter	: 824 ~ 849 MHz	824 ~ 849 MHz
Receiver	: 869 ~ 894 MHz	869 ~ 894 MHz

Channel Spacing	: 1.23 MHz	30kHz
Number of Channels	: 20 FA	832CHs
Duplex Spacing	: 45 MHz	45MHz
Frequency Stability	: ± 2.5 ppm (-20°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 ($\pm 10\%$)		

Size and Weight : 88.0 x 56.5 x 26.7 / 27.6 / 31.3 mm
including slim battery : 117.3 g
including standard battery : 145.2 g
including extended battery : 160.5 g

Operating Time

Digital Mode Standby Time	: up to 36 hours (with slim battery)
	: up to 65 hours (with standard battery)
	: up to 100 hours (with extended battery)
Talk Time	: up to 75 min (with slim battery)
	: up to 150min (with standard battery)
	: up to 240min (with extended battery)

2-2 Digital Mode

Waveform Quality	0.944 or more
Time Reference	±1uS or less
Rx Sensitivity and Dynamic Range	-104dBm, FER=0.5% or less -25dBm, FER=0.5% or less
Tx Output Power	320mW (25dBm)
Tx Frequency Deviation	±300Hz or less
Occupied Band Width	1.32MHz
Tx Conducted Spurious Emission	900KHz : -42dBc / 30KHz below 1.98MHz: -54dBc / 30KHz below
Minimum Tx Power Control	below -50dBm
Open Loop Power Control	-25dBm: -57.0dBm ~ -38.5dBm -65dBm: -17.5dBm ~ + 1.5dBm -104dBm: +18.0dBm ~ +30.0dBm
Standby Output Power	below -61dBm
Closed Loop Tx Power Control Range	Test1: ±24dB or less Test2: 0mS ~ 2.5mS Test3: ±24dB or more Test4: ±24dB or more Test5: ±24dB or more

2-3 ANALOG MODE

TRANSMITTER

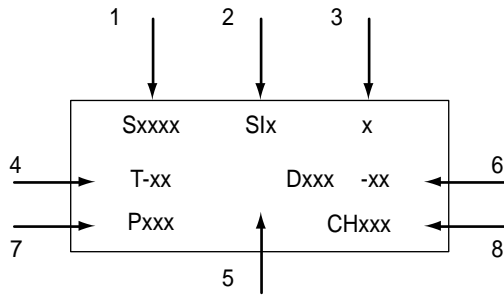
RF output power	0.6W (+2/-4dB)
Carrier ON/OFF conditions "ON" Condition "OFF" Condition	within ± 3 dB of specification output (in 2mS) below -60dBm (in 2mS)
Compressor Compression Rate Attack Time Recovery Time Reference Input	2:1 3mS 13.5mS Input level for producing a nominal ± 2.9 KHz peak frequency deviation of transmitted carrier
Preamphasis	6dB/OCT within 0.3 ~ 3KHz
Maximum Frequency Deviation F3 of G3 Supervisory Audio Tone Signaling Tone Wideband Data	± 12 KHz ± 2 KHz ($\pm 10\%$) ± 8 KHz ($\pm 10\%$) ± 8 KHz ($\pm 10\%$)
Post Deviation Limiter Filter 3.0 ~ 5.9KHz 5.9 ~ 6.1KHz 6.1 ~ 15KHz Over 15KHz	above 40 LOG (F/3000) dB above 35 dB above 40 LOG (F/3000) dB above 28 dB
Spectrum Noise Suppression For all modulation f0+20KHz ~ f0+45KHz For modulation by voice and SAT f0 +45KHz For modulation by WBD(without SAT) and ST (with SAT) f0+45KHz ~ f0+60KHz f0+60KHz ~ f0+90KHz f0+90KHz ~ 2f0	above 26 dB above 63 +10 LOG (PY) dB above 45 dB above 65 dB above 63 +10 LOG (PY) dB (where f0=carrier frequency PY=mean output power in watts)
Harmonic and conducted Spurious Emissions	below 43 + 10 LOG (PY) dB

RECEIVER

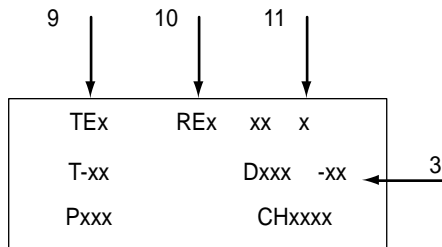
De-Emphasis	-6dB / OCT within 0.3 ~3KHz
Expander Expander Rate Attack Time Recovery Time Reference Input	1:2 within 3mS within 13.5mS output level to a 1000Hz tone from a carrier within ±2.9KHz peak frequency deviation
Sensitivity	12dB SINAD / -116dBm
Intermodulation Spurious Response Attenuation	above 65dB
RSSI Range	above 60dB
Protection Against Spurious Response Interference	above 60dB
In Band Conducted Spurious Emission Transmit Band Receive Band Other Band	below -60dBm below -80dBm below -47dBm
Radiated Spurious Emission	
Frequency Range 25 ~ 70 MHz 70 ~ 130MHz 130 ~ 174 MHz 174 ~ 260 MHz 260 ~ 470 MHz 470 ~ 1GHz	Maximum Allowable EIRP -45dBm -41dBm -41 ~ -32dBm -32dBm -32 ~ -26dBm -21dBm

2-4 CDMA Debug Display Information (menu 8)

IN IDLE MODE

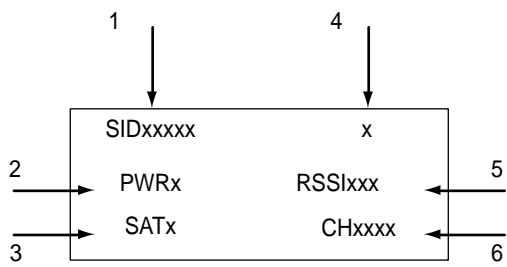


IN CONVERSATION MODE



- 1 : Sxxxx : SID (System Identification) toggle
Nxxxx : 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

2-5 FM Debug Display Information (menu 8)

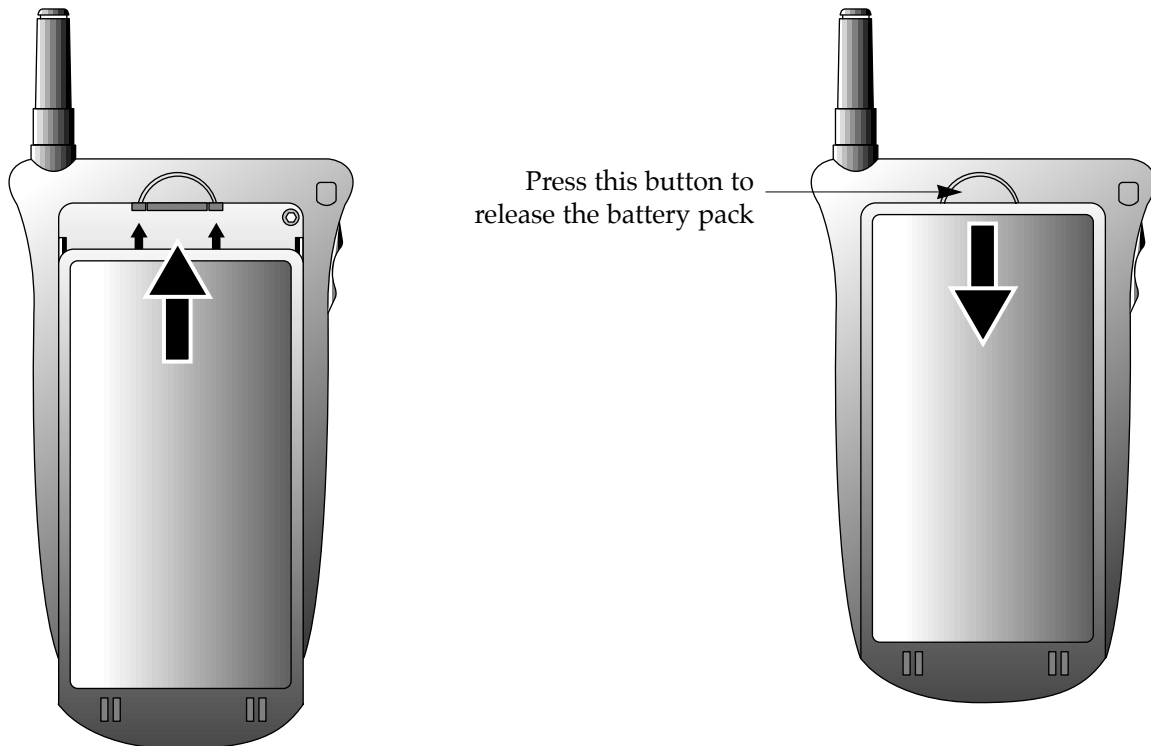


- 1 : SIDxxxxx : FM Home System ID
- 2 : PWRx : Power Level 0~7
- 3 : SATx : Supervisory Audio Tone code (0~3)
- 4 : x (Using Frequency Band) : A Band or B Band
- 5 : RSSIxxx : RSSI value
- 6 : CHxxx : Using Channel

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.

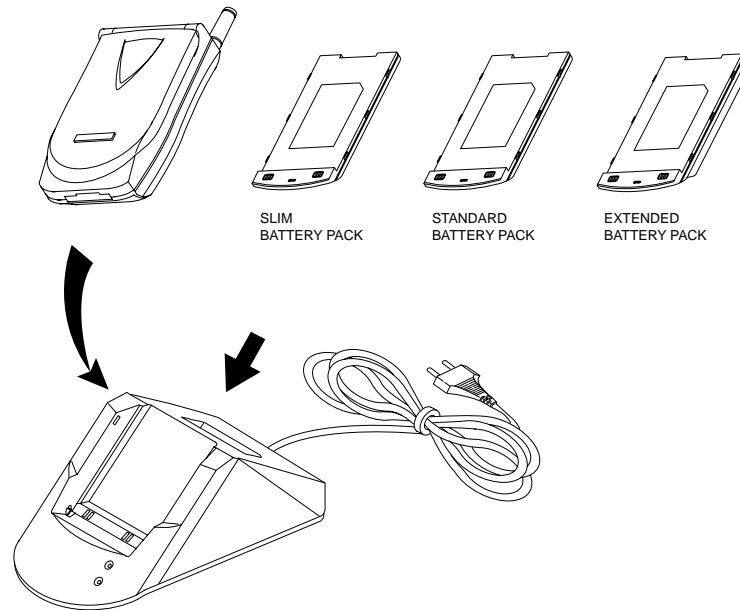


Figure 3-1 Charging the Phone and Battery

item	Model Name	Service Part#
Desk Top Rapid Charger	DTC81	GH43-00060A
Slim Battery Pack	BTI81AB	
Standard Battery Pack	BTS81AB	
Extended Battery Pack	BTE81AB	

SPECIFICATIONS USING "DTC 81"

Product	Charging time (hours)		Stand by time (hours)	Talking time(min)
	Front	Rear	Digital	Digital
Slim Battery Pack (Li-ion: 550mAh)	2	2	36	75
Standard Battery Pack (Li-ion: 1000mAh)	2.5	4	65	150
Extended Battery Pack (Li-ion: 1600mAh)	3	5	100	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. See the figure 3-2.
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.

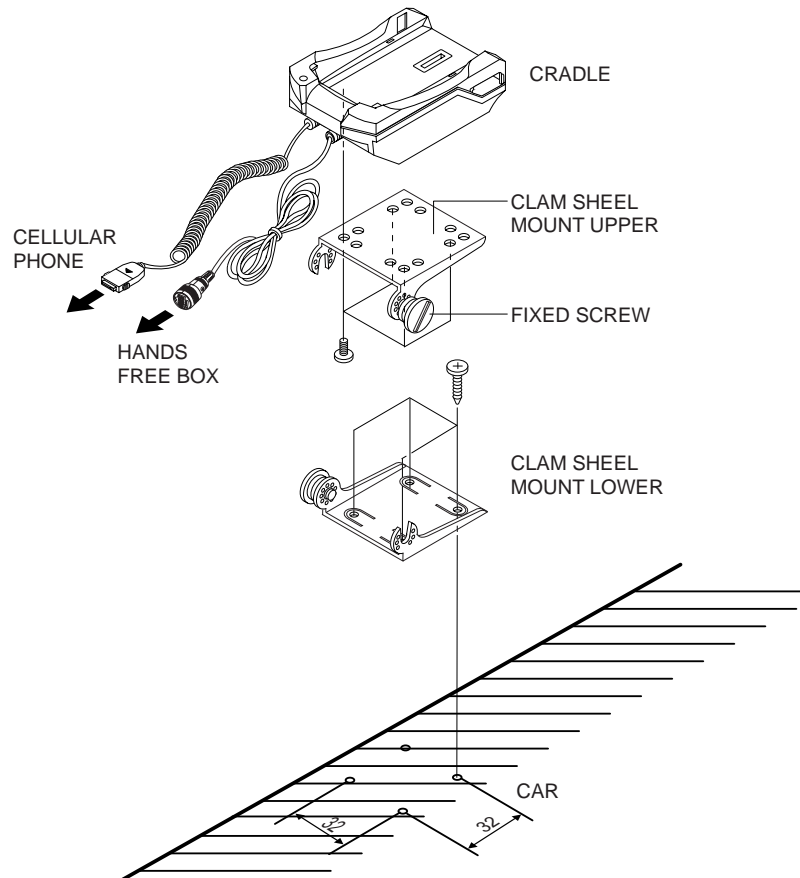


Figure 3-2 Cradle Installation

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.

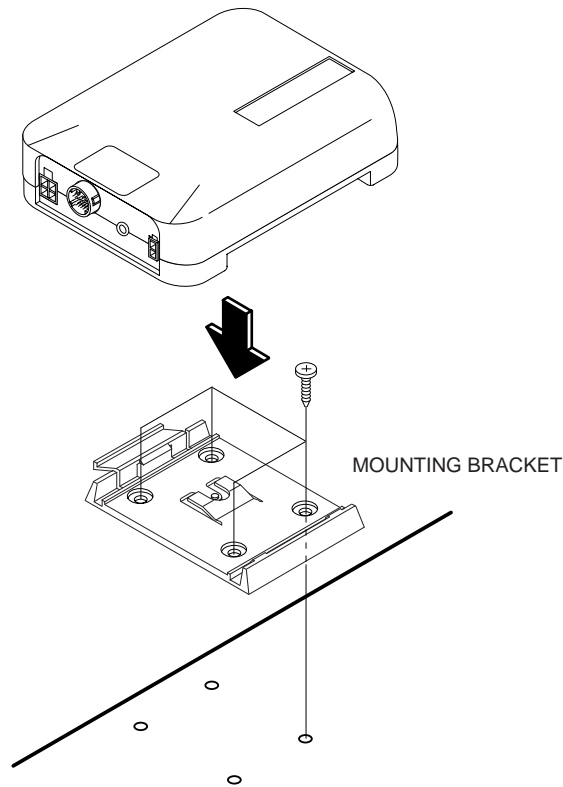


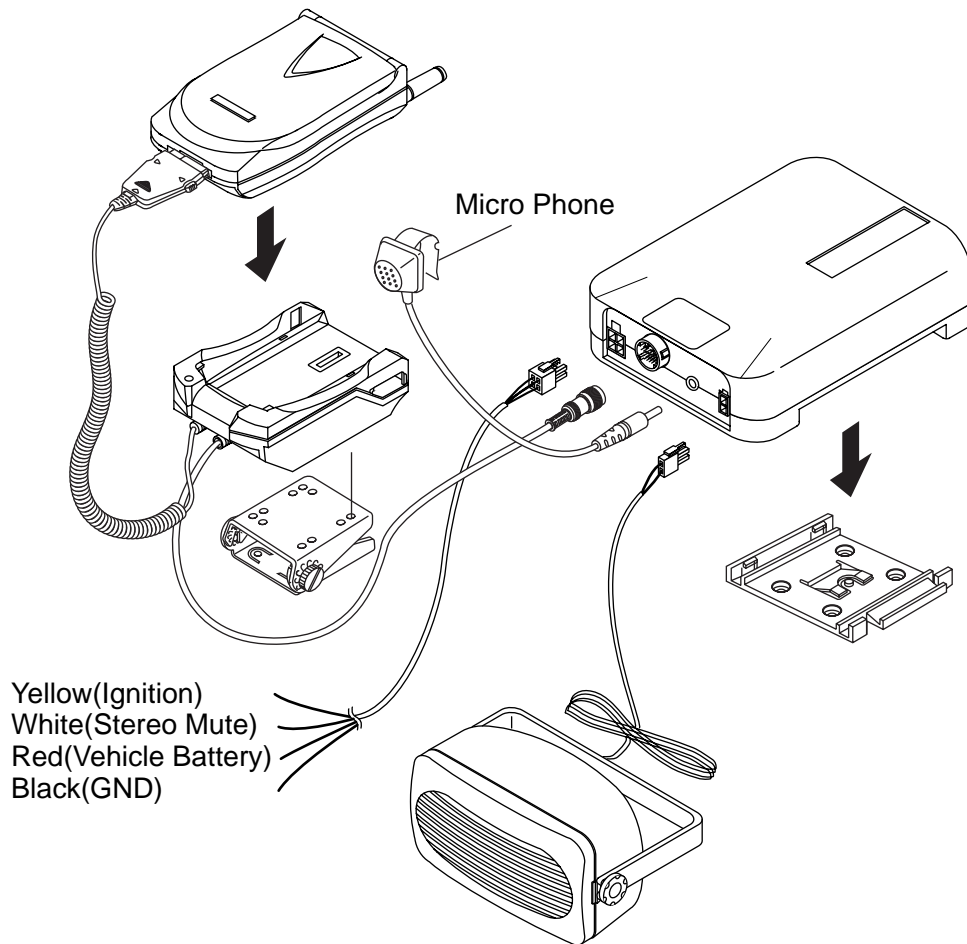
Figure 3-3 Hands-Free Box 1 Installation

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	Volumet	-Common Air Interface version is displayed
VOC13K/8K SO_VOICE_08K	Volume ▼	-Vocoder Rate
SCM 01101010	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 OK -store it.	0-7	Slot mode index. The higher, the longer sleeping time -to change, enter new one.
Pref NAM(1~4)... Digital pref	◀ 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 both the FM and 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:FM 3: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:FM 3:CDMA	2	-Choose 'Phone #'
FM HOME SID 4369	ID number OK	System ID for home, current status is displayed. -to change, enter new one. -store it.
FM 1st Chn 333	Channel number OK	Current 1st paging channel. -to change, enter new one. -store it.
FM Acq SID1 4	ID number OK	Acquisition system ID 1, current status is displayed. -to change, enter new one. -store it.
FM Acq SID2 0	ID number OK	Acquisition system ID2, current status is displayed. -to change, enter new one. -store it.
FM LockSID 1 0	ID number OK	Lock system ID 1, current status is displayed. -to change, enter new one. -store it.
Auto Reg		FM Registration, current status is displayed. -changes the status.

LCD Display	Key in	Function
Yes	◀ or ▶ OK	'YES' to enable, 'NO' to disable. -store it.
FM preq...		Preferred system selection, current status is displayed. -changes the system.
A only	◀ or ▶ OK	'YES' to enable, 'NO' to disable. -store it.
FM ACCOLC 0	◀ or ▶ OK	Current Access Overload Class. -changes the system. -store it.
Setup NAM1 1:Phone # 2:FM 3:CDMA	3	-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.
Schn Sys A 738	channel number OK	Second channel currently used under system A -to change, enter new one. -store it.

LCD Display	Key in	Function
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.
NID #3 3	number OK	3rd SID written in the list, current status is displayed. -to change, enter new one. -store it.

LCD Display	Key in	Function
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:FM 3:CDMA		LCD returns to the NAM1 setup mode.

4-3 Setting Up NAM2,3,4

The NAM2,3,4 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 (3.8V) 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

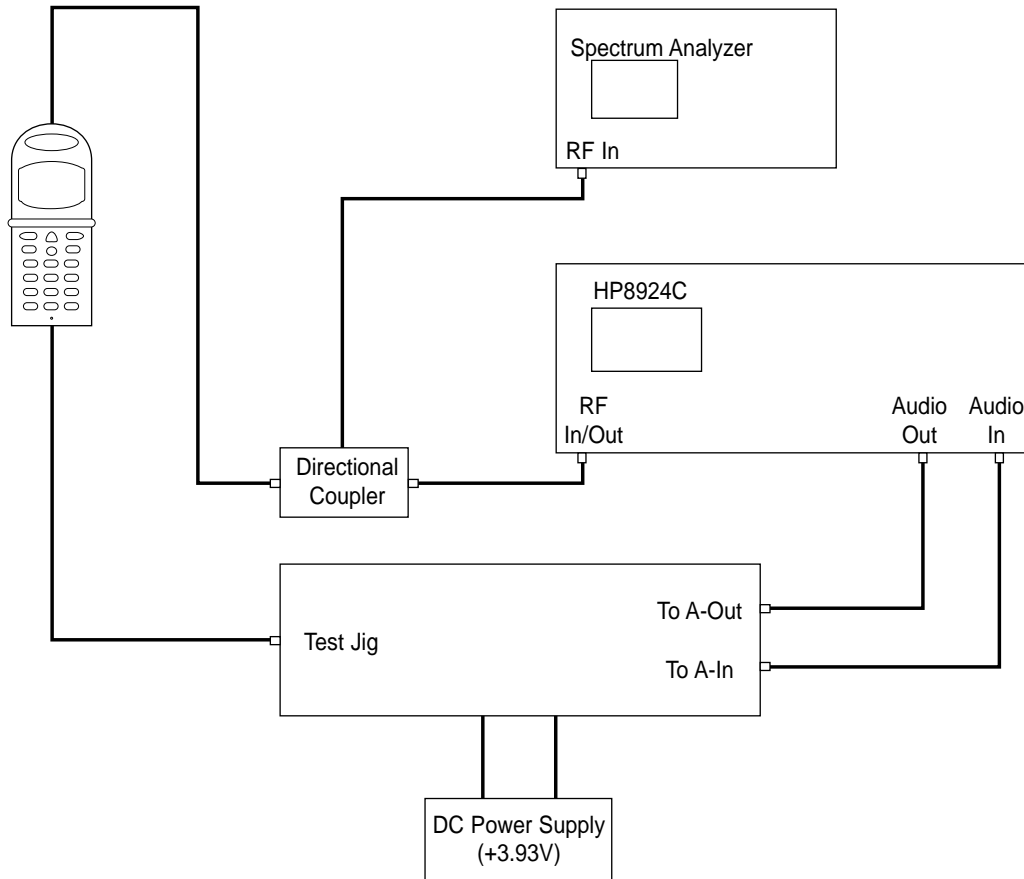
To begin a software upgrade or download, perform the following steps:

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 FM 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

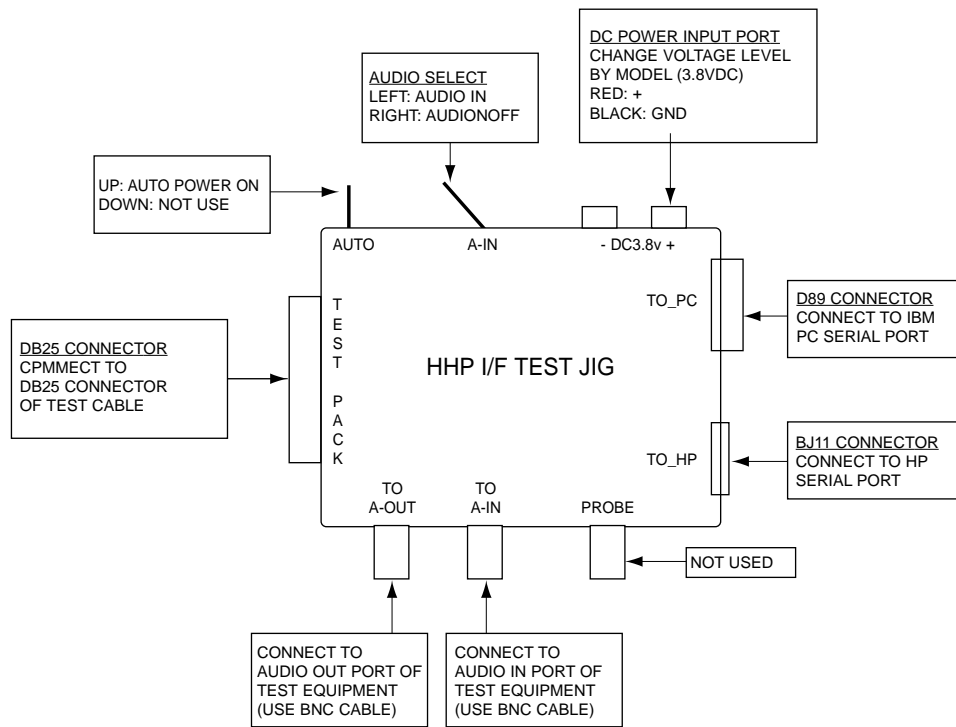
Items needed to purchase from SAMSUNG

ITEMS	PARTS #	REMARK
RF test Cable	GH39-0002A	Including 1. Power Cable(Black,Red) 2. 9-pin RS232 data Cable
Test cable	GH39-30516A	
DM Cable	GH39-30525A	
Test JIG	GH80-10502A	
(RF Interface Pack Ass'y)		

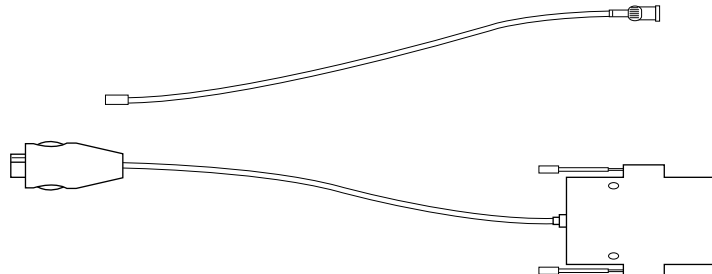
5-3-2 List of Equipment

- 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

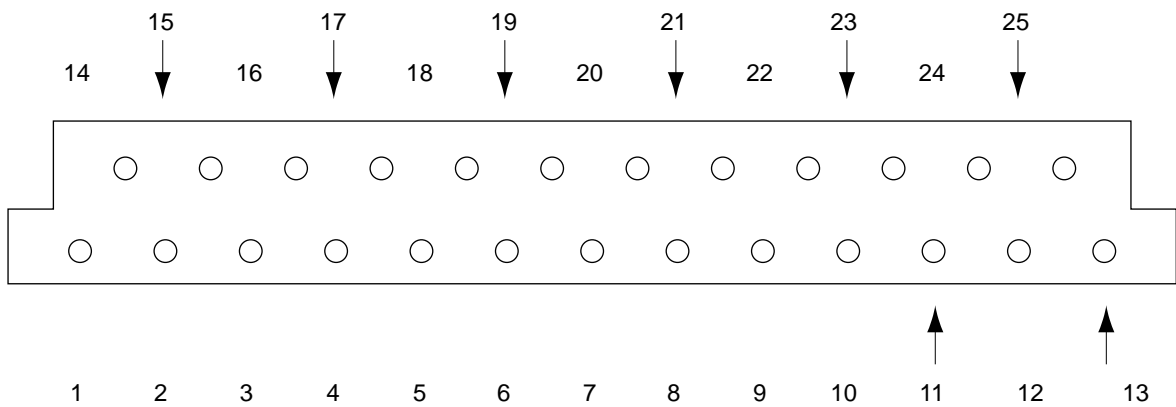


TEST CABLE CONNECTIONS

1	MHC 172
2	RF CABLE (1.4 dB Loss)
3	BNC CONNECTOR (RF)
4	PLUG CONNECT TO SCH-811
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

TYPE	CHANNEL	CONVERSION EQUATION	REMARK
TX FREQUENCY	$1 \leq N \leq 799$	$F = 0.03 \times N + 825.00$	N ; CH NUMBER F ; FREQUENCY
	$990 \leq N \leq 1023$	$F = 0.03 \times (N - 1023) + 825.00$	
RX FREQUENCY	$1 \leq N \leq 799$	$F = 0.03 \times N + 870.00$	
	$990 \leq N \leq 1023$	$F = 0.03 \times (N - 1023) + 870.00$	

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”.

* **Note:** Make sure to change to “Digital only” or “Analog only” mode in NAM1, EST MODE. (Refer to 4. NAM Programming)

Channel Selection and Tx Power Output Level Control

1. Digital Mode (CDMA)

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 band width.

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

2. Analog Mode (FM)

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

B. “0 1” : Suspend.

C. “4 6” : Vocoder initial to Analog mode.

D. “0 9 0 3 8 3 #” : Set to ‘0383’ channel.

E. “0 7” : Carrier On.

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

G. “1 0 2” : RF Power level control, 2(0~7) means power level .

5-5 TEST COMMAND TABLE

Command No. (OP,AB,RB)	Signal. Name	Description
01(1F,0,0)	T_SUSPEND_I	Terminate the normal mode, enter to the test mode.
02(3F,0,0)	T_RESTART_I	Terminate the test mode, enter to the normal mode.
03(FD,0,0)	T_SAVE_VAL_I	Save value in EEPROM. (Only for Auto test).
04(1D,0,1)	T_GET_MODE_I	Get mode CDMA or FM (Only for Auto test).
05(1C,1,0)	T_SET_MODE_I	Set mode CDMA or FM. (Only for Auto test).
06(1E,0,0)	T_WRITE_NV_I	Write an EEPROM item (one of the NV items)
07(81,0,0)	T_CARRIERON_I	Turn the carrier on.
08(82,0,0)	T_CARRIEROFF_I	Turn the carrier off
09(83,4,0)	T_LOADSYN_I ²⁾	Set the synthesizer to the channel specified by ch_data.
10(84,1,0)	T_PWRLEVEL_I ²⁾	Set the RF power level.
11(85,0,0)	T_RXMUTE_I	Mute the receive-audio signal.
12(86,0,0)	T_RXUNMUTE_I	Unmute the receive-audio signal.
13(87,0,0)	T_TXMUTE_I	Mute the transmit-audio signal.
14(88,0,0)	T_TXUNMUTE_I	Unmute the transmit-audio signal.
15(89,1,0)	T_VOC_ESEC_I	Echo canceller ON/OFF
16(8F,0,0)	T_ST_ON_I	Transmit a continuous Signaling Tone(ST).
17(90,0,0)	T_ST_OFF_I	Stop transmit a continuous Signaling Tone.
19(93,0,0)	T_INDEX_DECR_I	Index dn Key.
20(9E,3,0)	T_LNA_GAIN_WR_I	Write LNA gain.
22(91,96,96)	T_SNDNAM_I1)	Display and send NAM information.
23(95,3,4)	T_SNDVERSION_I ¹⁾	Display and return s/w version .
24(9F,7,8)	T_SNDESN_I ¹⁾	Display and return ESN .
25(92,0,0)	T_BACKLIGHT_ON_I	Turn on the backlight
26(93,0,0)	T_BACKLIGHT_OFF_I	Turn off the backlight
27(96,0,0)	T_LAMP_ON_I	Turn on the LAMP
28(97,0,0)	T_LAMP_OFF_I	Turn off the LAMP
29(9A,5,0)	T_REBUILD_I	Rebuild EEPROM
30(9D,16,0)	T_PLINE_I	Display and return production line information.
32(A0,1,0)	T_SAT_ON_I ^{*2)}	Enable the transmission of SAT.
33(A1,0,0)	T_SAT_OFF_I [*]	Disable the transmission of SAT.
34(A2,0,0)	T_CDATA_I	Transmit continuous 5-word Reverse CTL CH message.
35(A3,3,0)	T_VOLUME_UP_I	Increase value of the last command (Only for autotest)
36(A4,3,0)	T_VOLUME_DOWN_I	Decrease value of the last command (Only for autotest)
38(A6,3,0)	T_VOC_ENC_OFFSET_I	Vocoder ENC offset.
39(A7,3,0)	T_VOC_DEC_OFFSET_I	Vocoder DEC offset.

Command No. (OP,AB,RB)	Signal. Name	Description
40(A8,4,0)	T_VOC_CDMA_UNITY_GAIN_I	Vocoder CDMA unity gain.
41(A9,0,0)	T_VOC_FM_HFRX_UPGAIN_I	Vocoder FM hfrx upgain.
42(AA,1,0)	T_DTMFON_I ²⁾	Activate dtmf generator with keycode.
43(AB,0,0)	T_DTMFOFF_I	Deactivate DTMF generator.
44(B0,0,0)	T_COMPANDORON_I	Enable the compressor and expander.
45(B1,0,0)	T_COMPANDOROF_I	Diabie the compressor and expander.
46(B2,0,0)	T_FM_VCLINE_I*	Enter Analog voice channel state.
47(B3,0,0)	T_FM_AUD_GAIN_I	FM audio gain.
48(B4,0,0)	T_VIBRATOR_ON_I	Active A Vibrator.
49(B5,0,0)	T_VIBRATOR_OFF_I	Inactive A Vibrator.
50(B6,0,4)	T_BATT_TYPE_I	Batt type.
51(B7,1,1)	T_BBA_I	BBA supplier.
52(B9,2,2)	T_HW_VERSION_I	HW version.
53(BA,3,0)	T_CARRIER_I	Target Carrier option (Banner).
54(BB,1,0)	T_VOC13K_I	Target Service option (8K/13K).
55(AC,1,0)	T_EXT_AUDIO_I	External Audio Path ON/OFF.
56(AD,0,0)	T_LOOP_BACK_I	Loopback ON.
57(BC,0,0)	T_MIC_ON_I	Mic path on.
58(BD,0,0)	T_MIC_OFF_I	Mic path off.
59(BE,0,0)	T_ALLPATH_I	Set Rx Path, TX Path Unmute to Earpiece.
60(BF,3,0)	T_FM_TX_GAIN_I ²⁾³⁾	FM Tx Audio Gain Control.
61(C0,3,0)	T_FM_RX_GAIN_I ²⁾³⁾	FM Rx Audio Gain Control.
62(C1,3,0)	T_DTMF_VOL_TX_I ²⁾³⁾	FM Tx DTMF Gain control.
63(C2,3,0)	T_TX_LIMITER_I ²⁾³⁾	FM Tx Limiter Gain Control.
64(C3,3,0)	T_FM_SAT_LEVEL_I ²⁾³⁾	FM Tx SAT level Control.
65(C4,3,0)	T_FM_FREQ_SGAIN_I ²⁾³⁾	FM Tx Master Gain Control.
66(C5,3,0)	T_FM_ST_GAIN_I ²⁾³⁾	FM TX ST Gain Control.
67(C6,3,6)	T_READ_BATT_I ¹⁾	Reads low batt. Value in Standby or Talk mode.
68(C8,0,3)	T_VBATT1_I ³⁾	Set the low battery position in the standby.
69(C9,0,3)	T_VBATT2_I ³⁾	Set the low battery position in the talking.
70(CA,3,0)	T_WRITE_BATT_I ³⁾³⁾	Write low battery Level Value to NVM.
71(D1,3,0)	T_CDMA_TXADJ_I ²⁾	Change pdm TX AGC in CDMA.
72(D2,3,0)	T_FM_TXADJ_I ²⁾	Change pdm TX AGC in FM.
73(D3,1,0)	T_SET_PA_R0_I ²⁾	Set TX power Amp ctrl R0.
74(D4,4,0)	T_OFF_PA_R0_I	Off TX power Amp ctrl R0.
75(D5,0,3)	T_READ_RSSI_I ³⁾	Read a RSSI.
77(D7,0,3)	T_READ_TEMP_I	Read Temp.
78(D8,0,3)	T_RXRAS_AUTO_I	Adjust RXRAS from 8924C.
79(D9,1,0)	T_BUZZER_ON_I ²⁾	Buzzer On at DTMF 0 key
80(DA,0,0)	T_BUZZER_OFF_I	Buzzer off

Command No. (OP,AB,RB)	Signal. Name	Description
81(E3,0,0)	T_VOC_PCMLPON_I	Play a PCM LOOP BACK.
82(E4,0,0)	T_VOC_PCMLPOFF_I	Play off a PCM LOOP BACK.
85(E7,0,0)	T_SPEAKER_ON_I	Turn on the speaker path.
86(E8,0,0)	T_SPEAKER_OFF_I	Turn off the speaker path.
87(E9,0,0)	T_FM_LOOP_TEST_I	Play a PCM FM loopback.
88(EA,0,0)	T_TRK_ADJ_I3)	FM TRK_LO_ADJ control.
89(EB,0,0)	T_CD_TRK_ADJ_I3)	CDMA TRK_LO_ADJ control.
92(F2,3,0)	T_TXRAS_ADJ_I	TXRAS adj = TX RAS offset array.
93(F3,3,0)	T_RXRAS_ADJ_I	RXRAS adj = RX RAS offset array.
94(F4,4,0)	T_HW_CHANFLAT_T	H/W Channel Flatness.
95(F5,4,0)	T_SW_CHANFLAT_T	S/W Channel Flatness.
96(F6,3,0)	T_CH_FLATNESS_I	Set 22dBm Channel Deviation 10 POINT.
97(F7,3,0)	T_FM_TX_PWR_I	Set FM PWR LEVEL 2~7

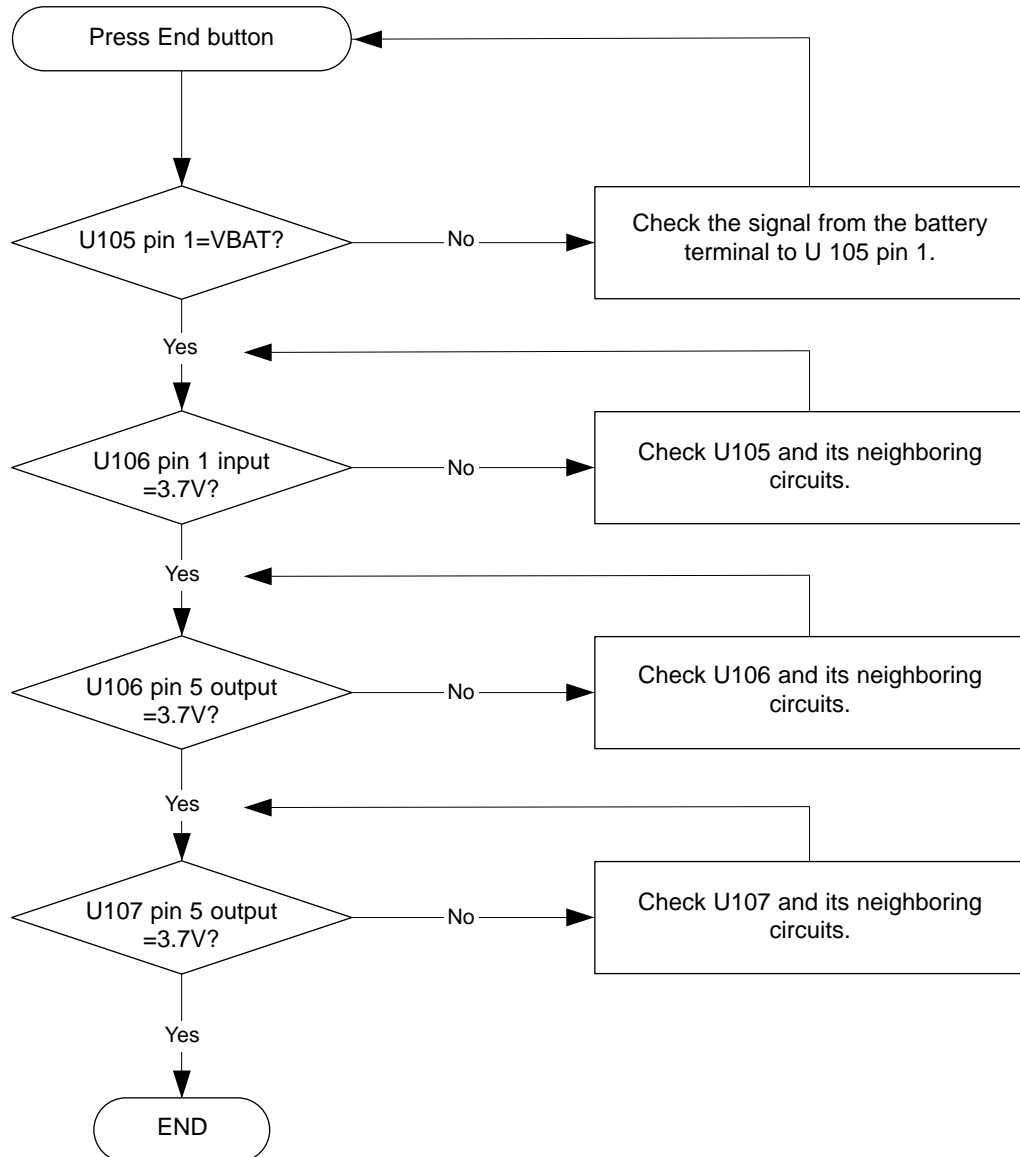
- 1) ==> The AB (Input Argument Byte Number) values of these commands are used only in the manual test. In automatic test mode, the AB is regarded as 0.
- 2) ==> You can assign the value for these commands. If the AB value is assigned without argument, the test is achieved with the value stored in EEPROM.
- 3) ==> After you get a desired test value by performing these commands, if you want to save the value in EEPROM, use T-SAVE-VAL-I command to store the test value into the corresponding position.

* OP : Operation Command Number
AB : Input Argument Byte Number
RB : Return Byte Number

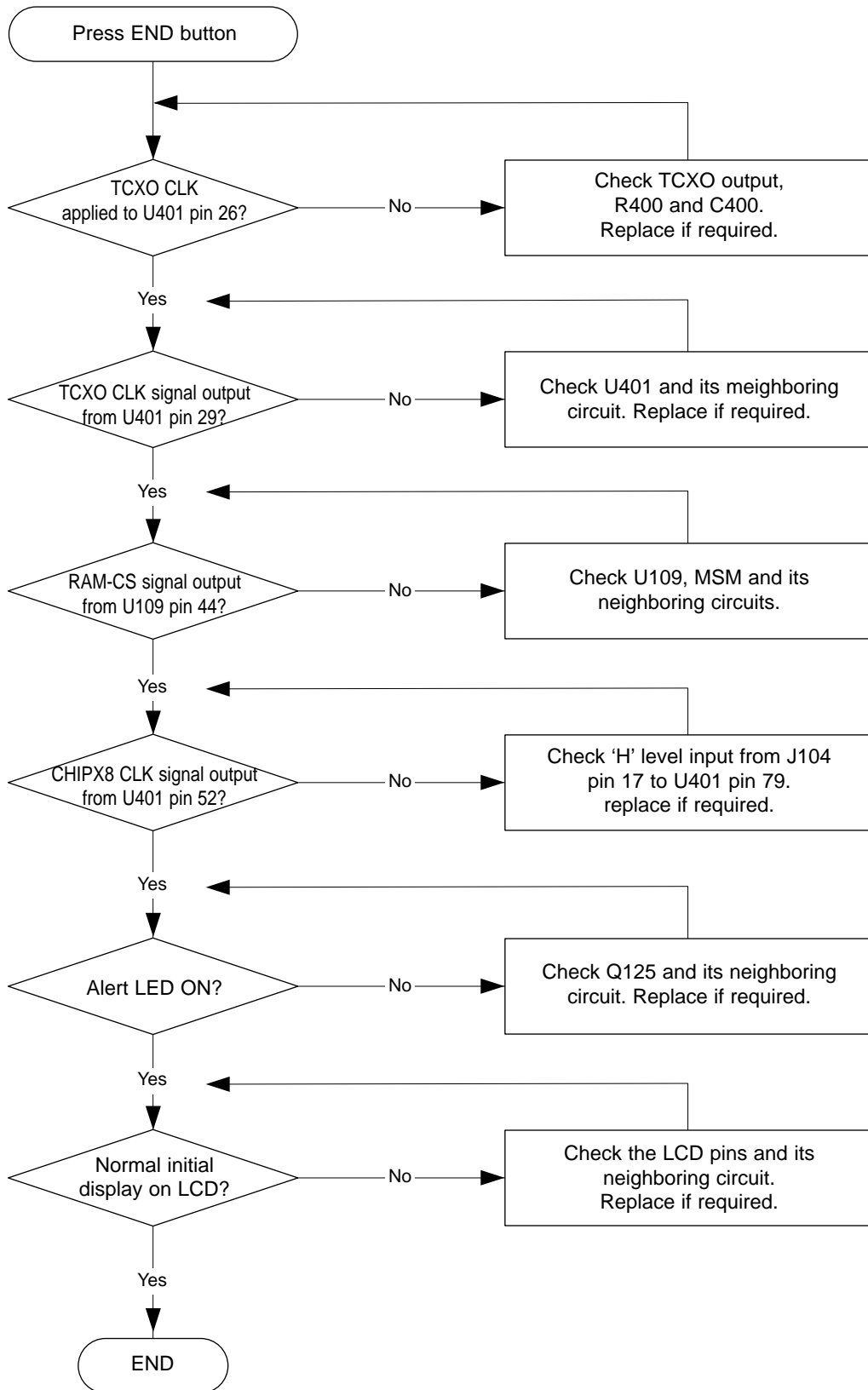
6. Troubleshooting

6-1 Logic Section

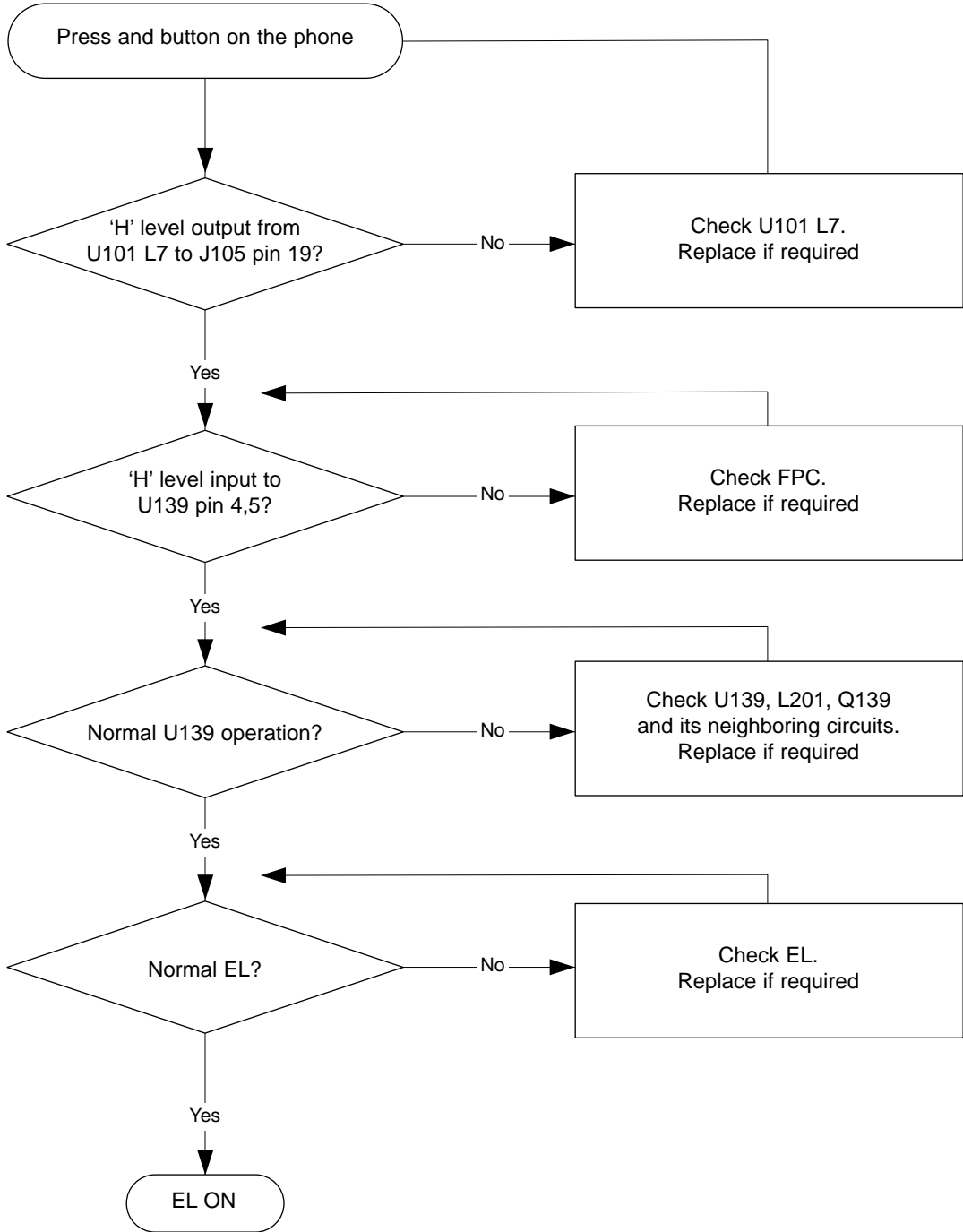
6-1-1 No Power



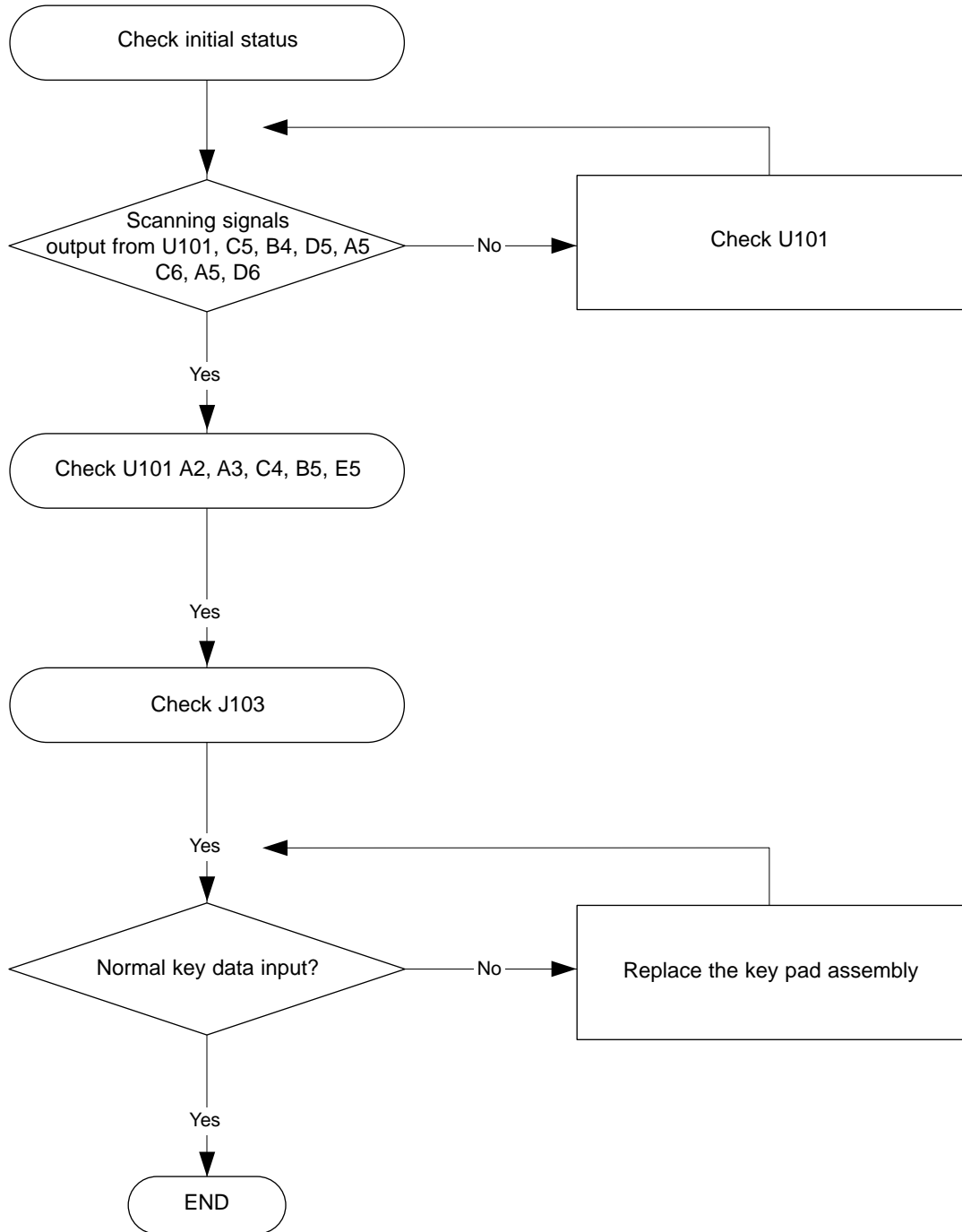
6-1-2 Abnormal Initial Operation (Normal +3.3V source)



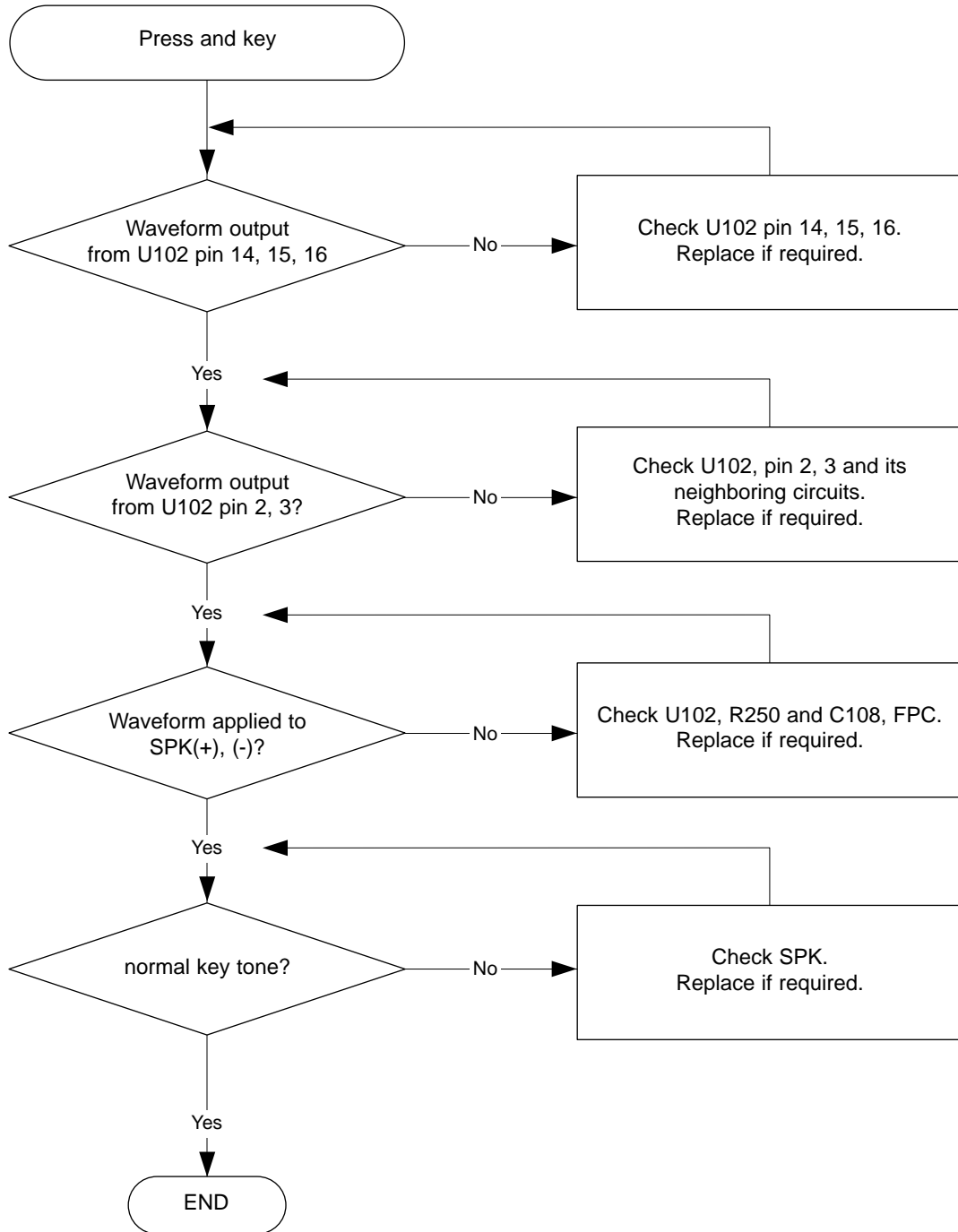
6-1-3 Abnormal Backlight Operation



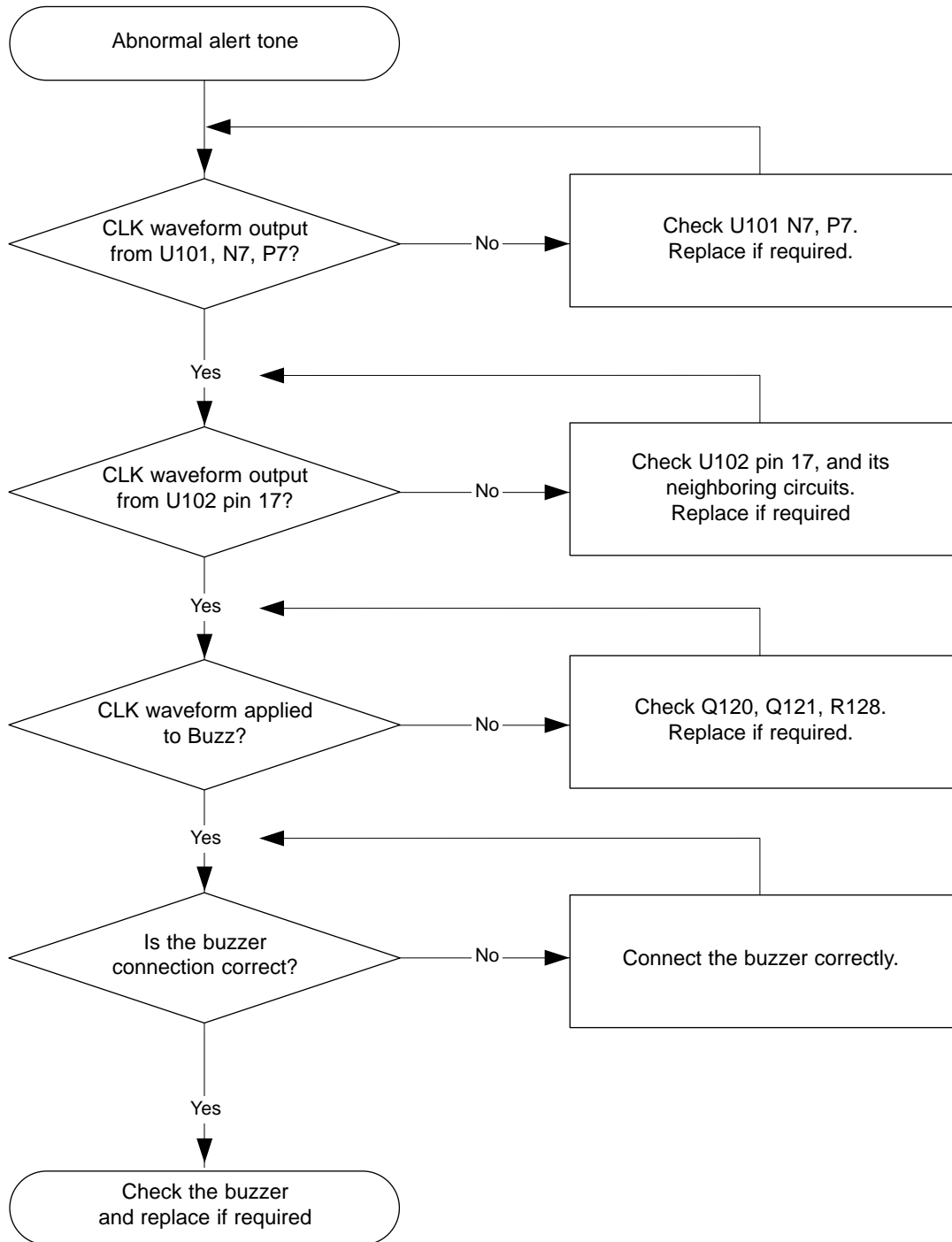
6-1-4 Abnormal Key Data input



6-1-5 Abnormal Key tone

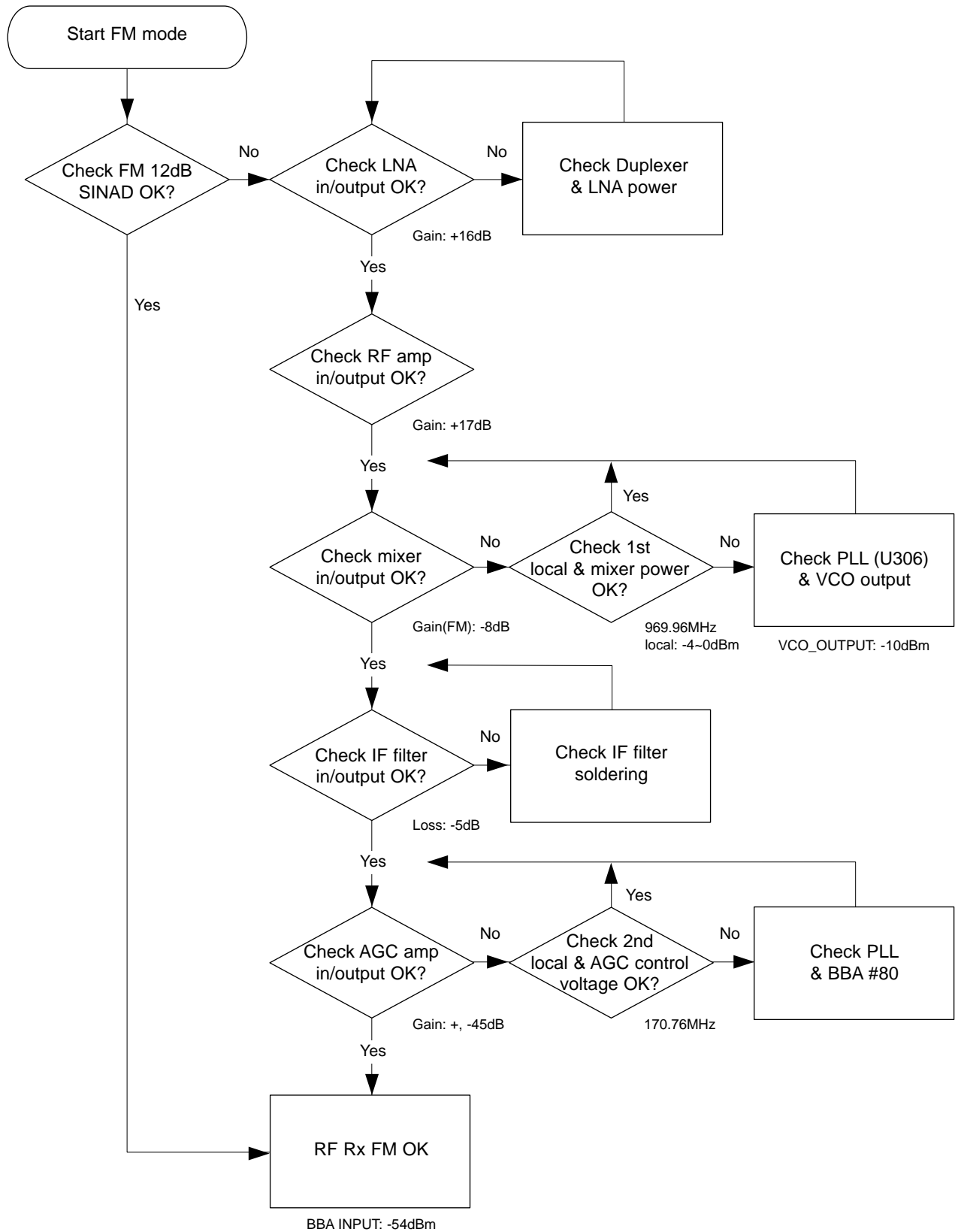


6-1-6 Abnormal Alert Tone

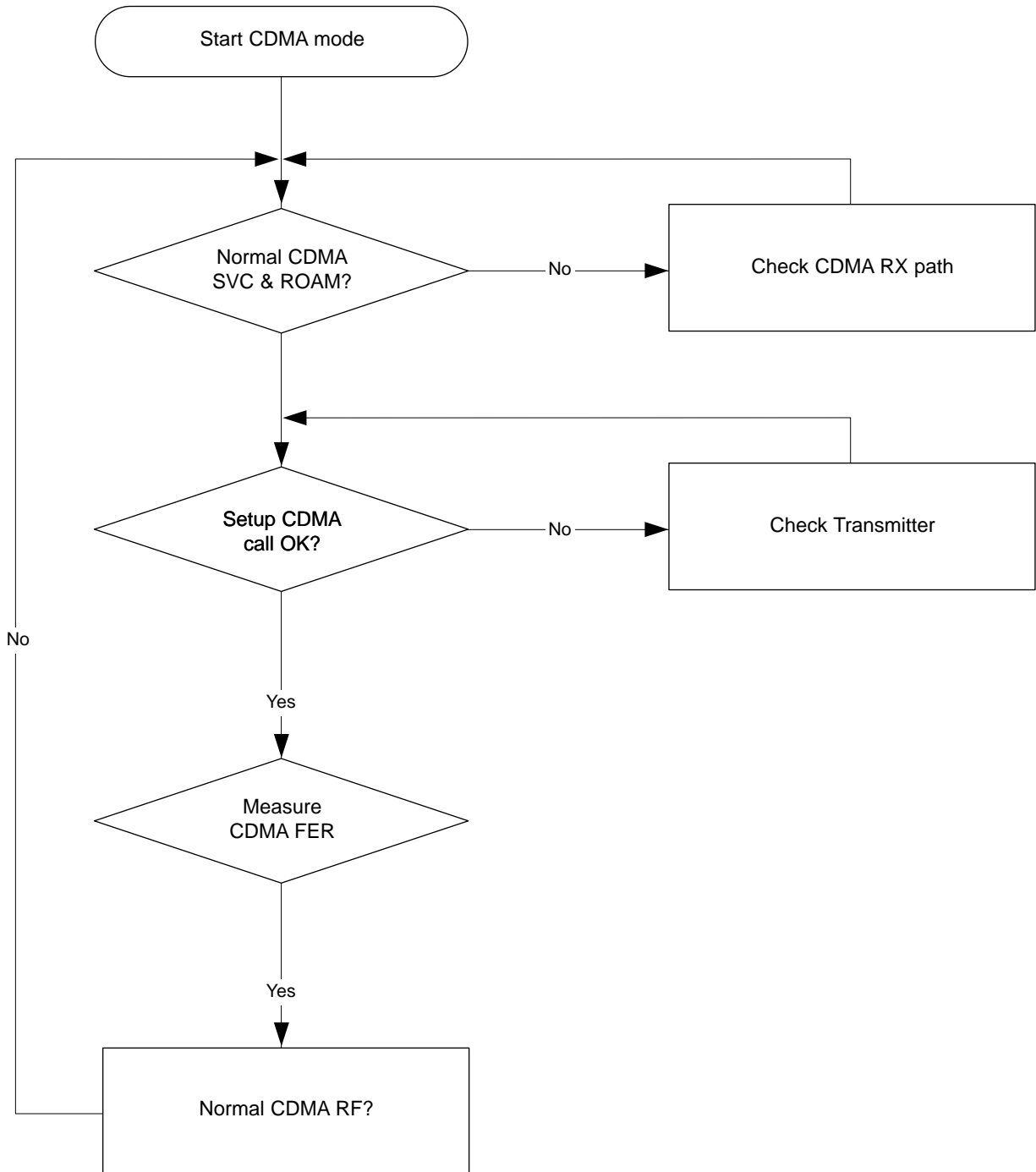


6-2 Receiver Section

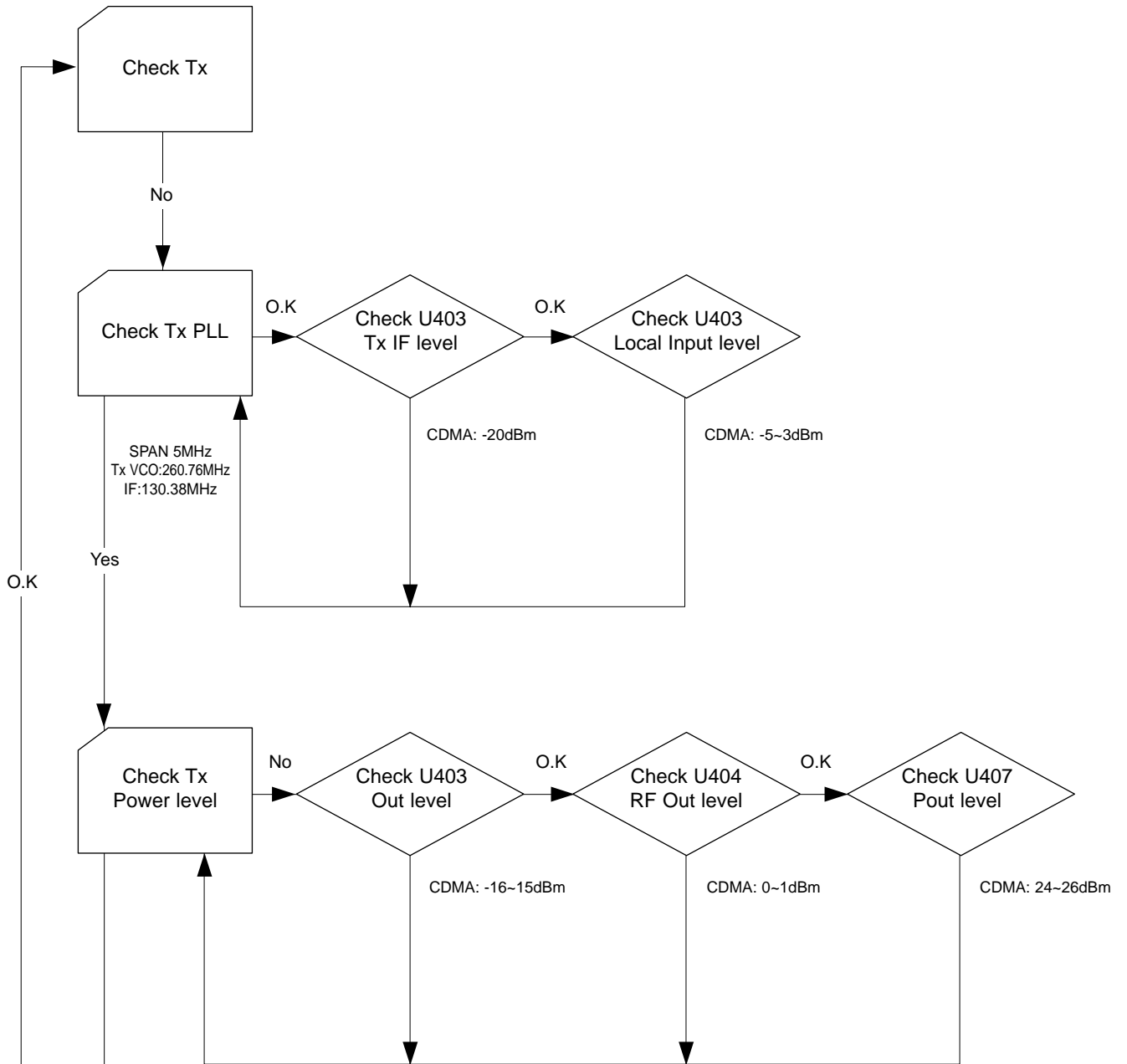
6-2-1 FM mode



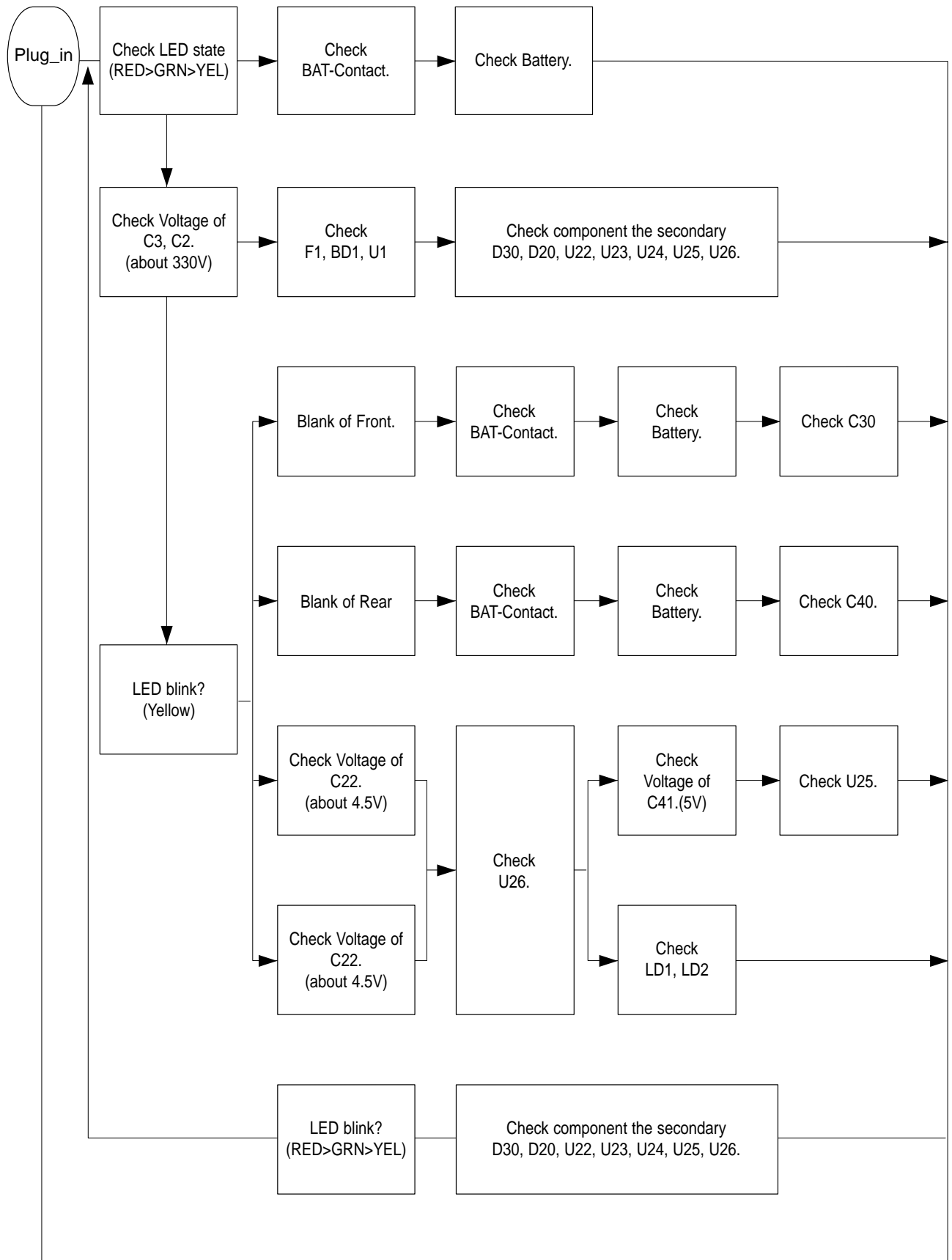
6-2-2 CDMA Mode



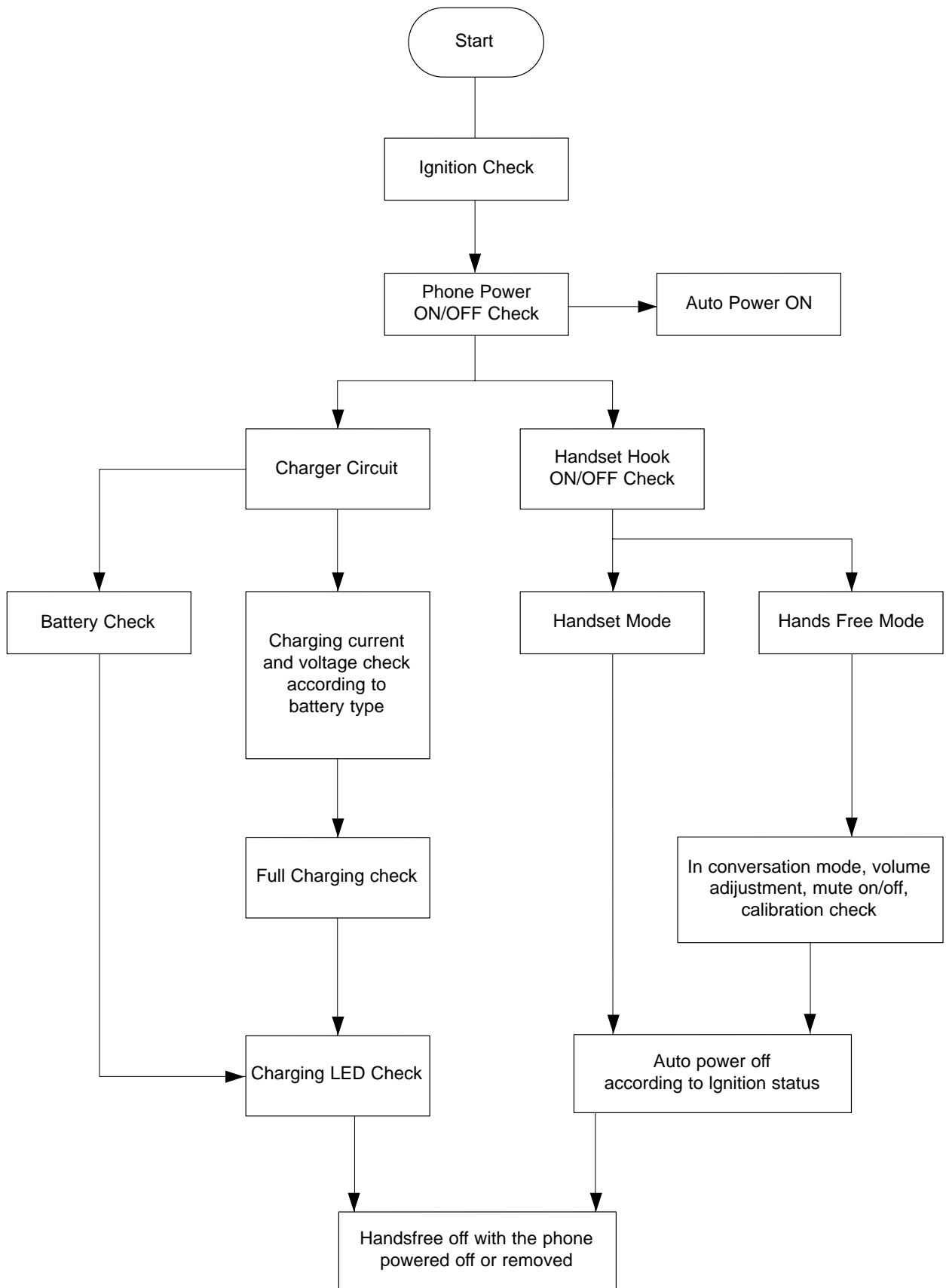
6-3 Transmitter Section



6-4 Desk-Top Rapid Charger

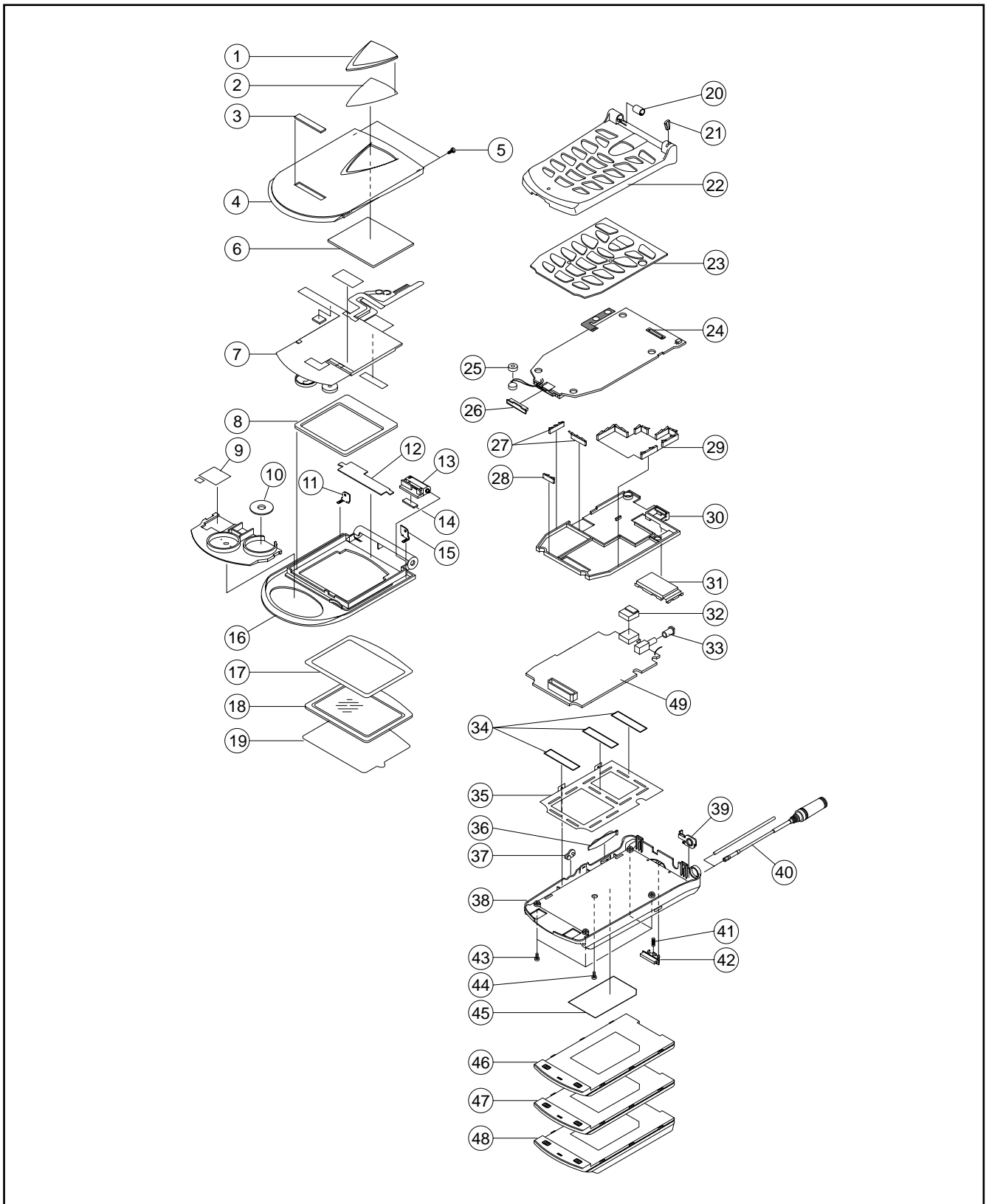


6-5 Hands-Free Kit 1



7. Exploded View and its Parts List

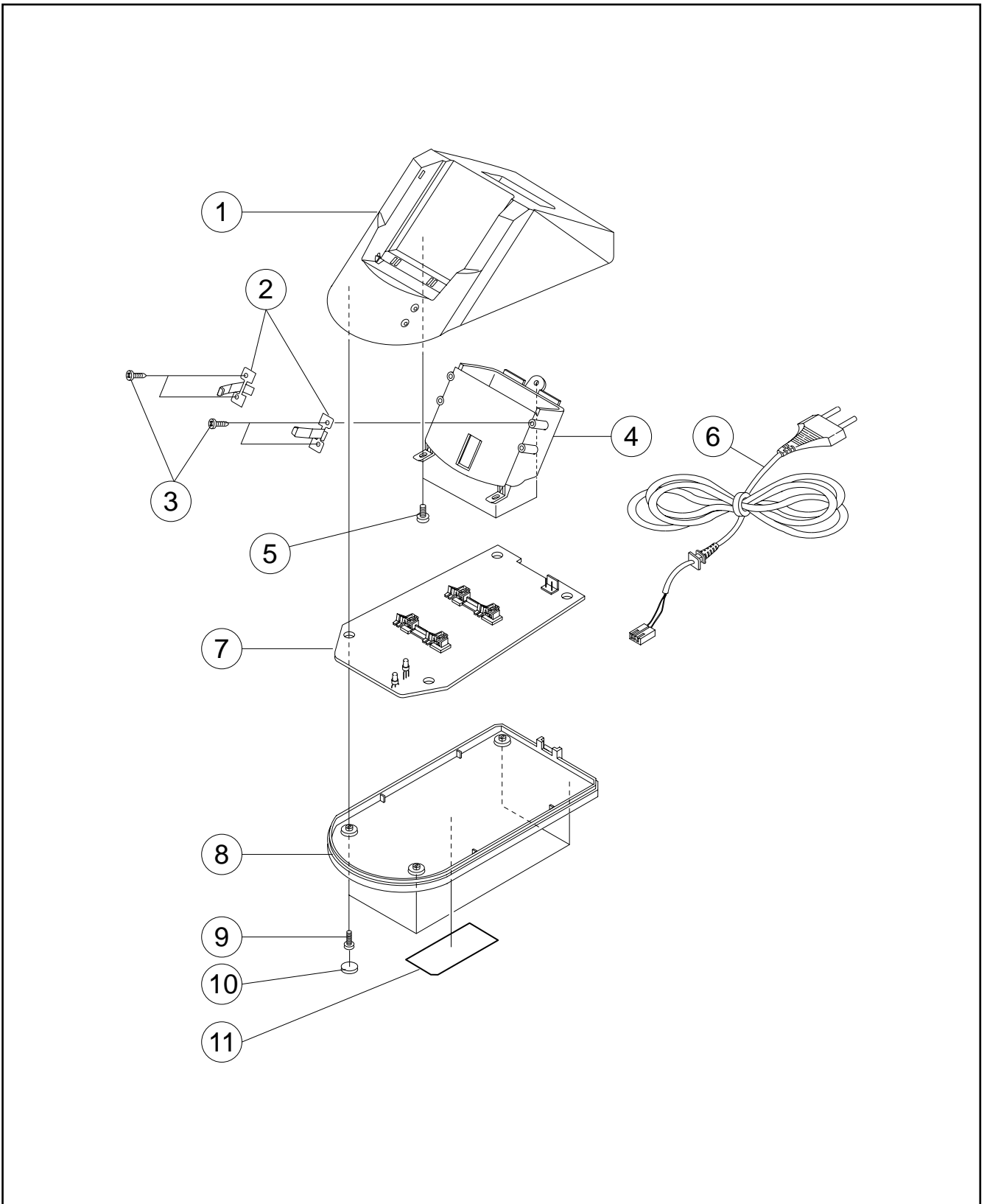
7-1 Cellular phone Exploded View



7-2 Cellular phone Parts List

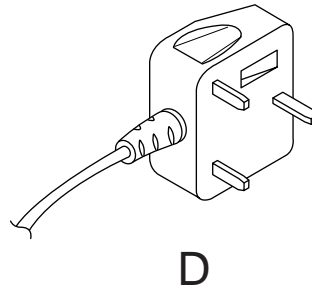
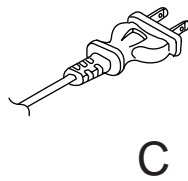
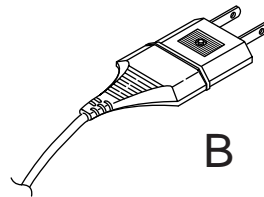
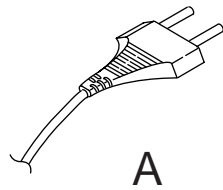
No	Description	SEC code	Q'TY	Remark
1	PMO-DECORATION	GH72-00264C	1	
2	MPR-TAPE DECORATION	GH74-10772A	1	
3	LABEL(M) LOGO BADGE PCL	GH68-00365C	1	
4	PMO-FOLDER UPPER	GH72-00285A	1	
5	SCREW-MACHINE	601-000876	1	
6	MCT-SHIELD GASKET	GH74-00011A	1	
7	LCD ASS'Y	GH96-00798A	1	
8	MPR-SPONGE LCD	GH74-10774A	1	
9	MPR-TAPE EAR PIECE	GH74-00005A	1	
10	MPR-TAPE VIBRATOR	GH74-10776A	1	
11	NPR-BRACKET FOLDER R	GH71-10726A	1	
12	PPR-PC SHEET LCD	GH72-10545A	1	
13	MEC-HINGE ASSY	GH75-11337A	1	
14	ICT-MAGNET	GH70-00009A	1	
15	NPR-BRACKET FOLDER L	GH71-10722A	1	
16	PMO-FOLDER LOWER	GH72-41804A	1	
17	MPR-TAPE WINDOW LCD	GH74-10775A	1	
18	PCT-WINDOW LCD	GH72-00283A	1	
19	PPR-WINDOW BOHO	GH72-10001A	1	
20	PMO-HINGE DUMMY	GH72-00067A	1	
21	RMO-REFLECTOR LED	GH72-41801A	1	
22	PMO-FRONT COVER	GH72-41800A	1	
23	RMO-KEY PAD	GH73-00080A	1	
24	LOGIC BOARD	GH41-00019A	1	
25	RMO-HOLDER MIC	GH73-40708A	1	
26	RMO-CONNECTOR COVER	GH73-40704A	1	
27	NPR-SHIELD STRIP(C)	GH71-00006A	2	
28	NPR-SHIELD STRIP(A)	GH71-00004A	1	
29	NPR-SHIELD MSM CAN	GH71-00008A	1	
30	PMO-SHIELD COVER	GH72-41799A	1	
31	NNPR-SHIELD DUPLEX CA	GH71-00009A	1	
32	RMO-HOLDER BUZZER	GH73-40735A	1	
33	PMO-MOBILE CAP	GH73-40705A	1	
34	NPR-SHIELD TAPE RF	GH74-00027A	3	
35	NPR-GROUND PLATE	GH71-00010A	1	
36	PMO-KNOB VOLUME	GH72-41787A	1	
37	RMO-EAR JACK COVER	GH73-40734A	1	
38	PMO-REAR COVER	GH72-41806A	1	
39	NPR-BRACKET ANT	GH71-10742A	1	
40	ANTENNA	GH42-00002A	1	
41	SPRING-LOCKER	GH61-70054A	1	
42	PMO-LOCKER BATT	GH72-00068A	1	
43	SCREW-MACHINE	6001-001140	4	
44	SCREW-MACHINE	6001-000876	1	
45	LABEL(R) MAIN	GH68-00368A	1	
46	SLIM BATTERY		1	
47	STANDARD BATTERY		1	
48	EXTENDED BATTERY		1	
49	RF BOARD	GH41-00020A	1	

7-3 Desk-Top Rapid charger Exploded View



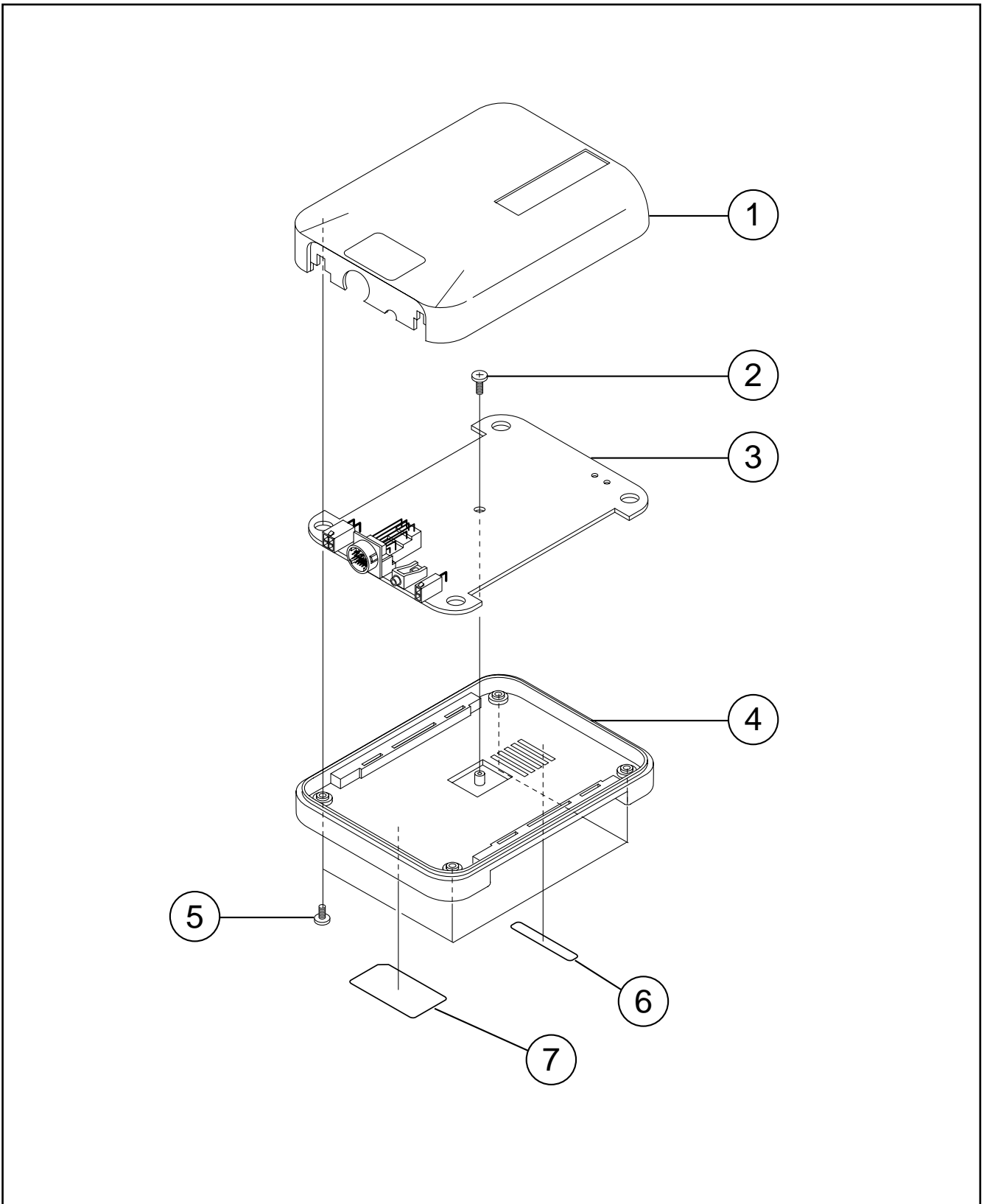
7-4 Desk-Top Rapid charger Parts List

No	Description	SEC. CODE	Q'TY	Remark
1	Case. upper		1	
2	Hook-plate		2	
3	SCREW		4	
4	Battery housing		1	
5	SCREW		1	
6	Power cord		1	
7	PCB		1	
8	Case. Lower		1	
9	SCREW		4	
10	BUM PON		4	
11	Label		1	



TYPE	SEC. CODE	Remark
A		ISRAEL
B		Brazil
C		China
D		Hong Kong

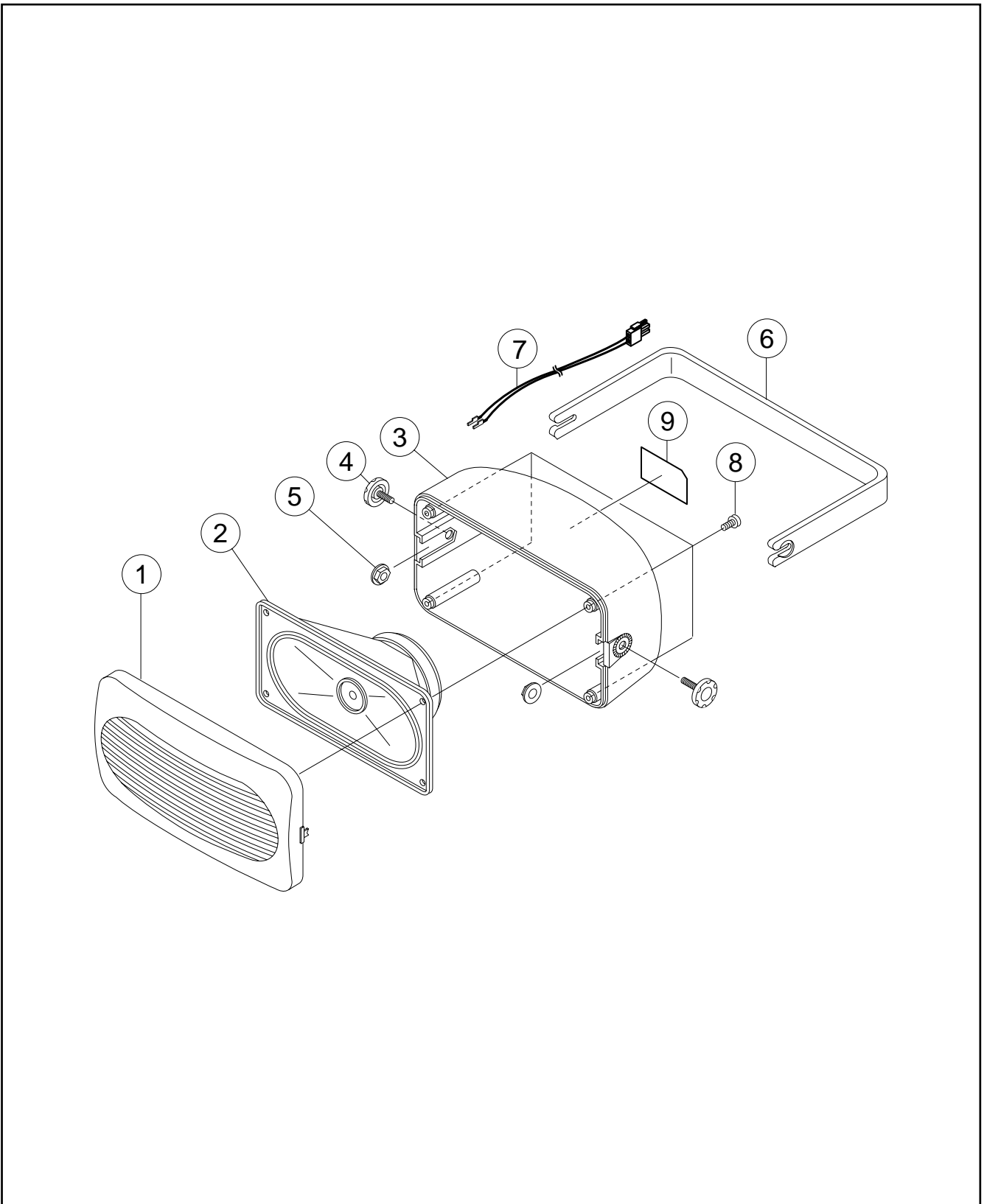
7-5 Hands-free Kit 1 Exploded View



7-6 Hands-free Kit 1 Parts List

No	Description	SEC. CODE	Q'TY	Remark
1	Case. upper		1	
2	SCREW 3X5Y		1	
3	PCB		1	
4	Case. Lower		1	
5	SCREW 3X12Y		4	
6	Sponge		2	
7	Label		1	

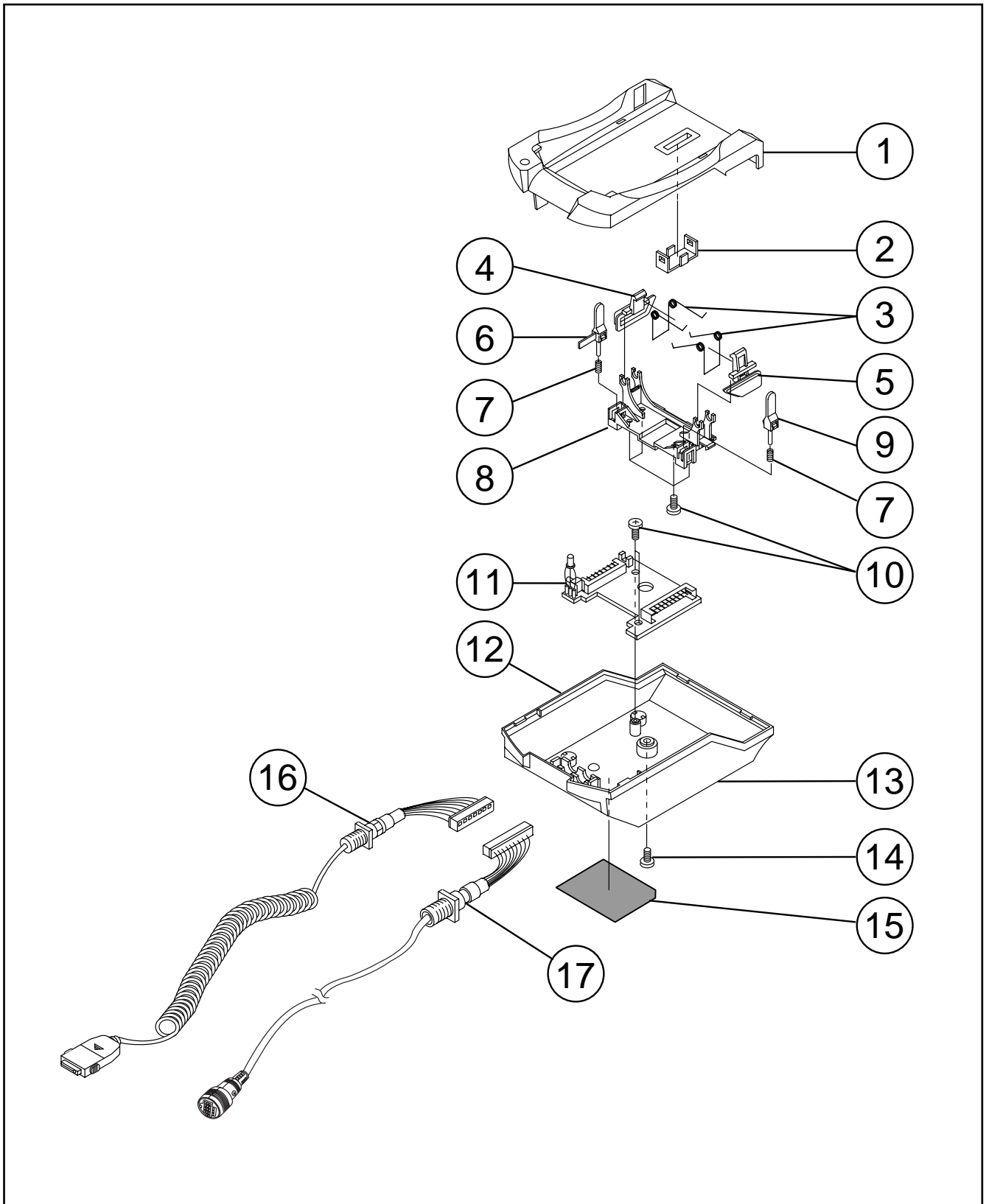
7-7 Speaker Exploded View



7-8 Speaker Parts List

No	Description	SEC. CODE	Q'TY	Remark
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	

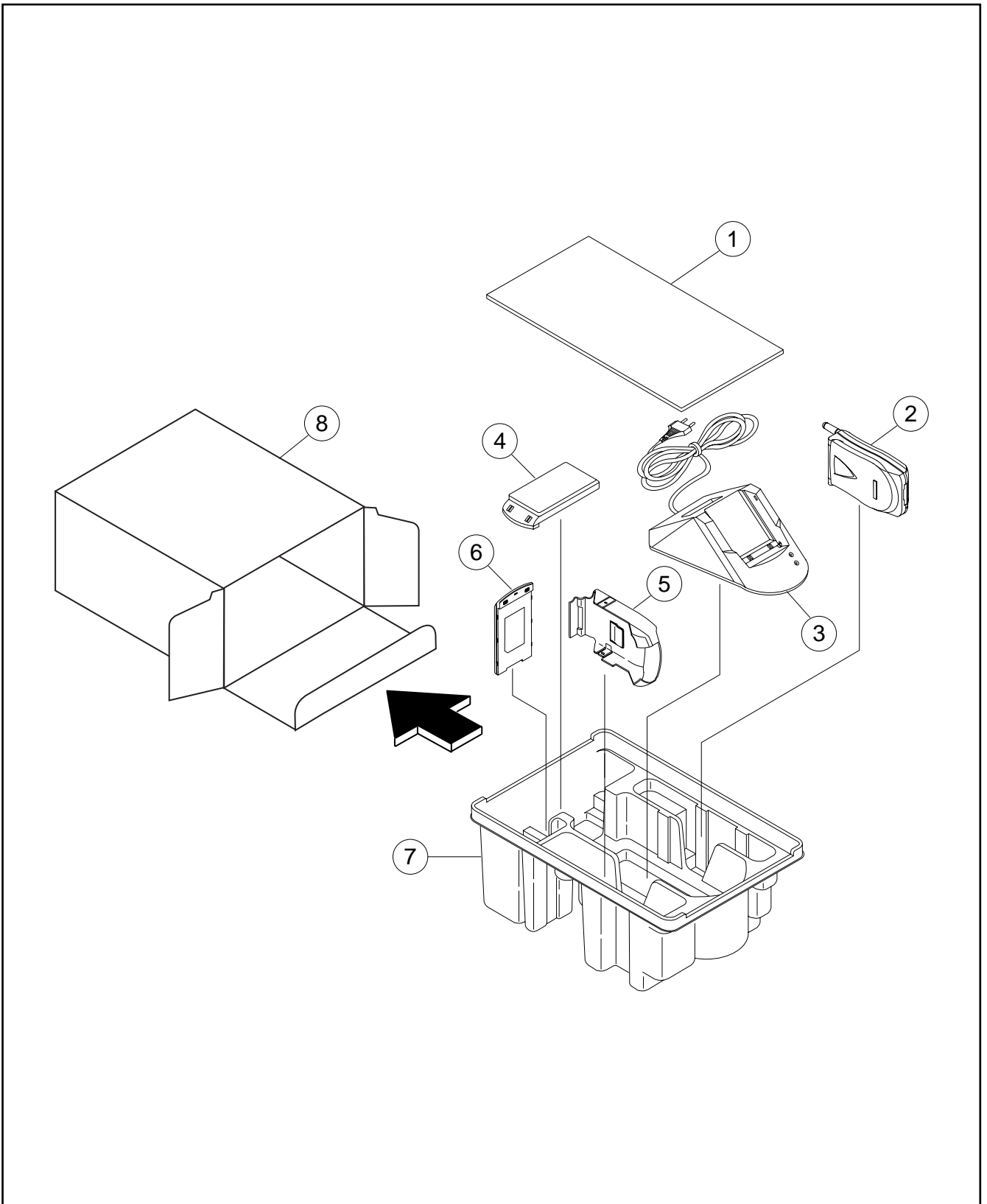
7-9 Cradle Exploded View



7-10 Cradle Parts List

No	Description	SEC. CODE	Q'TY	Remark
1	Cover Top		1	
2	Holder Socket		1	
3	Spring rock		2	
4	Locker		1	
5	Locker		1	
6	Eject-A		1	
7	Efect 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	

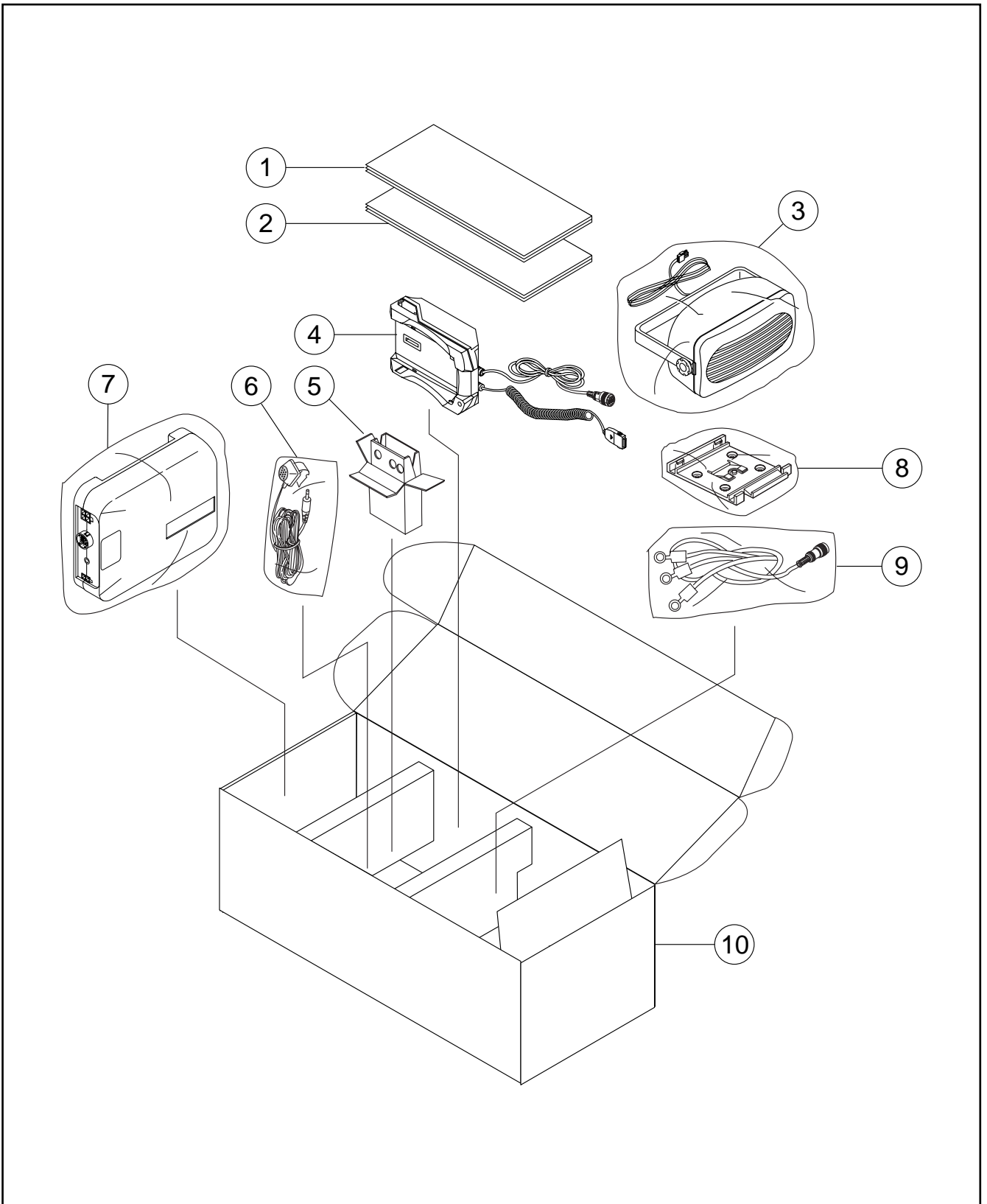
7-11 Main packing Exploded View



7-12 Main packing Parts List

No	PART NAME	CODE NO	Q'TY	Remark
1	CUSHION DUMMY MANUAL		1	
2	MAIN SET		1	
3	DTC81		1	
4	EXT BATT		1	
5	HOLSTER		1	
6	STD BATT		1	
7	MAIN CUSHION		1	
8	MAIN GIFT BOX		1	

7-13 Hands-Free Kit 1 packing Exploded View



7-14 Hands-Free Kit 1 packing Parts List

No	Description	SEC. CODE	Q'TY	Remark
1	User manual		1	
2	User manual		1	
3	External speaker		1	
4	Cradle		1	
5	install Bracket for cradle		1	
6	External Mic		1	
7	Hands-free Box		1	
8	install Bracket for hands-free Box		1	
9	Power cable		1	
10	Unit Box		1	

8. Electrical Parts List

8-1 Main Part List

Level	Design LOC	ITEMS	DESCRIPTIONS	SEC.CODE
1	-	SCREW-MACHINE	"CH,+M1.7,L2,ZPC(BLK),SWRCH18"	6001-000876
1	-	SCREW-MACHINE	"BH,STAR,M2,L4,CBLACK,SM20C,-"	6001-001140
1	REAR-COVER	ANTENNA-SCH800	"-,824-894MHZ,0DBD,50OHM"	GH42-00002A
1	-	BATTERY-STD ENG(B)	"3.6V,1000MAH,-,1CMA,4.1V"	GH43-00057A
1	-	LABEL(R)-MAIN SCH811	"SCH-811,POLYESTER T0.05,37X28,-,SIL"	GH68-00368A
1	-	LABEL(P)-7PI	"SCH-200F,ART,PI7,100G,BLK"	GH68-10680A
1	-	LABEL(P)-MS BAR CODE	"SCH-1900,ART,100X155,T0.1,WHT"	GH68-11057A
1	-	LABEL(R)-BARCODE BOX	"SCH-1011,POLYESTER,61X71,T0.1,"	GH68-30937A
1	-	LABEL(R)-BAR CODE	"SP-D300,PR,34X6.5,T0.1,WHT"	GH68-30963A
1	-	PCT-WINDOW LCD SCH811P	"SCH-811,-,BLK,-,-"	GH72-00283A
1	WINDOW-LCD	PPR-TAPE WINDOW BOHO	"SCH-100,VINYL TAPE,TRP,-,-"	GH72-10001A
1	-	PMO-KEY VOLUME	"SPH7000,PC+ELASTOMER,BLK,-,-"	GH72-41787A
1	SCREW BOSS	RPR-GROUND GASKET	"SPH-7000,SI RUBBER,@TM7*T0.4,GRY,-"	GH73-00005A
1	-	RMO-CONNECTOR COVER	"SPH7000,URETAN,18.2X4.0XT5.8,B"	GH73-40704A
1	-	RMO-MOBILE CAP	"SPH7000,URETHAN,5.2X4.2XT5.0,B"	GH73-40705A
1	-	RMO-EAR JACK COVER	"SCH-800,URETHAN,5.0X11XT5.0,BL"	GH73-40734A
1	SPEAKER	MPR-SPONGE SPEAK	"SCH-800,FOAM,@TM8.5XT0.4,BLK,-"	GH74-00012A
1	FPC-CABLE	MPR-SPONGE MIC	"SH-800,SPONGE,7X7.5X3,BLK,-"	GH74-10526A
1	-	MEC-SHIELD COVER	"SCH-800B,SEC,TRP"	GH75-00022A
2	SHIELD-COVER	NPR-SHIELD STRIP(A)	"SCH-800B,C5210-1/2H,T0.1,-"	GH71-00004A
2	SHIELD-COVER	NPR-SHIELD STRIP(C)	"SCH-800B,C5210-1/2H,T0.1,-"	GH71-00006A
2	SHIELD-COVER	NPR-SHIELD MSM CAN	"SCH-800B,C5210-1/2H,T0.1,-"	GH71-00008A
2	SHIELD-COVER	NPR-SHIELD DUPLEX CAN	"SCH-800B,C5210-1/2H,T0.1,-"	GH71-00009A
2	SHIELD-COVER	PMO-SHIELD COVER	"SCH-800,PC,TRP,-,-"	GH72-41799A
2	SHIELD-COVER	MPR-SPONGE MSM	"SPH-7000,PVC FOAM,10X10XT0.5,WHT,-"	GH74-00002A
2	SHIELD-COVER	MPR-SPONGE SAW FILTER	"SCH-800B,PE SPONGE,15X5.8XT0.5,WHT,-"	GH74-00014A
2	SHIELD-COVER	MPR-SPONGE TCXO	"SCH-800B,PE SPONGE,9.0X7.0XT0.5,WHT,-"	GH74-00015A
1	-	MEC-HOLSTER 811B	"SCH-811,PCL,BLK"	GH75-00144A
2	-	SPRING-CLAMP	"SCH-811,PW1(KSD 3556)-,-,-"	GH61-00005A
2	-	IPR-E RING	"SCH-811,STS304 W2,0.3,-"	GH70-00023A
2	-	ICT-PIN CLAMP	"SCH-811,STS304 W2,PI1.9X20,-"	GH70-00024A
2	-	PMO-HOLSTER CRADLE 811B	"SCH-811,PC,BLK,-,-"	GH72-00282A
2	-	PMO-HOLSTER CLAMP 811B	"SCH-811,PC,BLK,-,-"	GH72-00284A
1	-	MEC-HANGER	"SCH-811,PCL,BLK"	GH75-00157A
1	-	PBA MAIN-SCH810 LOGIC	"SCH-810,SAMSUNG,BRAZ,LOGIC,-,-,-"	GH92-00758A
2	D107	DIODE-SWITCHING	"MCL4148,100V,200mA,LL-34,TP"	0401-001052
2	D109	DIODE-RECTIFIER	"UPS5819,40V,1.0A,SMT,TP"	0402-001207
2	D101	DIODE-TVS	"SM05,6V/1mA,300,SOT-23"	0406-001005
2	D103	DIODE-TVS	"SM05,6V/1mA,300,SOT-23"	0406-001005
2	D130	DIODE-TVS	"SM05,6V/1mA,300,SOT-23"	0406-001005

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2	D111	DIODE-TVS	"SMS05C,6V,300W,SOT-23-6"	0406-001051
2	D112	DIODE-TVS	"SMS05C,6V,300W,SOT-23-6"	0406-001051
2	D128	DIODE-TVS	"SMS05C,6V,300W,SOT-23-6"	0406-001051
2	D129	DIODE-TVS	"SMS05C,6V,300W,SOT-23-6"	0406-001051
2	D135	DIODE-TVS	"SMS05C,6V,300W,SOT-23-6"	0406-001051
2	D104	DIODE-ARRAY	"DA204U,20V,100mA,C2-3,SC-70,TP"	0407-000102
2	D102	DIODE-ARRAY	"KDS226,80V,300mA,C2-3,SOT-23,T"	0407-000122
2	Q124	TR-SMALL SIGNAL	"2SA1576,PNP,200MW,SOT-323,TP,180-390"	0501-000162
2	Q107	TR-SMALL SIGNAL	"2SC4081,NPN,200mW,UMT,TP,180-3"	0501-000218
2	Q119	TR-SMALL SIGNAL	"MMBT2222A,NPN,225mW,SOT-23,TP,"	0501-000457
2	Q121	TR-SMALL SIGNAL	"MMBT2222A,NPN,225mW,SOT-23,TP,"	0501-000457
2	Q123	TR-SMALL SIGNAL	"MMBT2222A,NPN,225mW,SOT-23,TP,"	0501-000457
2	Q106	TR-DIGITAL	"RN1104,NPN,100MW,47K/47K,SSM,TP"	0504-000168
2	Q125	TR-DIGITAL	"RN1104,NPN,100MW,47K/47K,SSM,TP"	0504-000168
2	Q126	TR-DIGITAL	"RN1104,NPN,100MW,47K/47K,SSM,TP"	0504-000168
2	Q101	TR-DIGITAL	"RN2104,PNP,100MW,47K/47K,SSM,TP"	0504-000172
2	Q120	TR-DIGITAL	"RN2104,PNP,100MW,47K/47K,SSM,TP"	0504-000172
2	Q103	FET-SILICON	"SI3443DV,P,-20V,+3.5mA,65mohm"	0505-001165
2	Q104	FET-SILICON	"SI6803DQ,N/P,20/-20V,+2.5/+2"	0505-001185
2	D120	LED	"CHIP,Y-GRN,0.8x1.1mm,570nm"	0601-001094
2	D121	LED	"CHIP,Y-GRN,0.8x1.1mm,570nm"	0601-001094
2	D122	LED	"CHIP,Y-GRN,0.8x1.1mm,570nm"	0601-001094
2	D123	LED	"CHIP,Y-GRN,0.8x1.1mm,570nm"	0601-001094
2	D124	LED	"CHIP,Y-GRN,0.8x1.1mm,570nm"	0601-001094
2	D125	LED	"CHIP,Y-GRN,0.8x1.1mm,570nm"	0601-001094
2	D126	LED	"CHIP,Y-GRN,0.8x1.1mm,570nm"	0601-001094
2	D127	LED	"CHIP,Y-GRN,0.8x1.1mm,570nm"	0601-001094
2	D110	LED	"CHIP,RED/GRN,3x2.5mm,660/570nm"	0601-001130
2	U114	IC-CMOS LOGIC	"7W04,INVERTER,SSOP,8P,110MIL,T"	0801-000301
2	U116	IC-CMOS LOGIC	"7S32,OR GATE,SOT-25,5P,63MIL,S"	0801-000796
2	U111	IC-CMOS LOGIC	"7S04,INVERTER,SOT-25,5P,63MIL,"	0801-002192
2	U112	IC-TTL	"4W53,MUX/DEMUX,SOP,8P,110MIL,S"	0803-003010
2	U115	IC-DSP	"16272,16BIT,TQFP,64P,400MIL,27"	0904-001280
2	U104	IC-EEPROM	"24C256,32Kx8BIT,SOP,8P,200MIL,"	1103-001131
2	U110	IC-FLASH MEMORY	"29LV800,1Mx8BIT,SON,46P,-,100n"	1107-001062
2	U109	IC-ETC. MEMORY	"1306,524Kx16BIT,SOP,48P,400MIL"	1109-001081
2	U103	IC-VOLTAGE COMP.	"75W56,SSOP,8P,110MIL,DUAL,7V,C"	1202-001022
2	U108	IC-RESET	"809,SOP,3P,-,PLASTIC,-0.3/6V,4"	1203-000392
2	U107	IC-VOLTAGE REGULATOR	"5205,SOT-23,5P,59MIL,PLASTIC,3"	1203-001256
2	U105	IC-PWM CONTROLLER	"9161,SOP,16P,-,PLASTIC,1.455/1"	1203-001434

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2	U106	IC-VOLTAGE REGULATOR	"5219,SOT-23,5P,63MIL,PLASTIC,3"	1203-001518
2	U102	IC-ENCODER/DECODER	"ST5092TQFPTR,QFP,44P,-,PLASTIC"	1204-001375
2	U101	IC-DATA COMM./GEN.	"MSM2300,PBGA,196P,590MIL,PLAST"	1205-001517
2	R113	R-CHIP	"2Kohm,5%,1/16W,DA,TP,1005"	2007-000137
2	R105	R-CHIP	"100ohm,5%,1/16W,DA,TP,1005"	2007-000138
2	R106	R-CHIP	"100ohm,5%,1/16W,DA,TP,1005"	2007-000138
2	R129	R-CHIP	"100ohm,5%,1/16W,DA,TP,1005"	2007-000138
2	R130	R-CHIP	"100ohm,5%,1/16W,DA,TP,1005"	2007-000138
2	R131	R-CHIP	"100ohm,5%,1/16W,DA,TP,1005"	2007-000138
2	R137	R-CHIP	"100ohm,5%,1/16W,DA,TP,1005"	2007-000138
2	R188	R-CHIP	"100ohm,5%,1/16W,DA,TP,1005"	2007-000138
2	"R103,R108,R224"	R-CHIP	"1Kohm,5%,1/16W,DA,TP,1005"	2007-000140
2	R104	R-CHIP	"1Kohm,5%,1/16W,DA,TP,1005"	2007-000140
2	R116	R-CHIP	"1Kohm,5%,1/16W,DA,TP,1005"	2007-000140
2	R117	R-CHIP	"1Kohm,5%,1/16W,DA,TP,1005"	2007-000140
2	R125	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	R181	R-CHIP	"1Kohm,5%,1/16W,DA,TP,1005"	2007-000140
2	R183	R-CHIP	"1Kohm,5%,1/16W,DA,TP,1005"	2007-000140
2	R230	R-CHIP	"1Kohm,5%,1/16W,DA,TP,1005"	2007-000140
2	R102	R-CHIP	"2.2Kohm,5%,1/16W,DA,TP,1005"	2007-000141
2	R114	R-CHIP	"2.7Kohm,5%,1/16W,DA,TP,1005"	2007-000142
2	R100	R-CHIP	"4.7Kohm,5%,1/16W,DA,TP,1005"	2007-000143
2	R149	R-CHIP	"4.7Kohm,5%,1/16W,DA,TP,1005"	2007-000143
2	R217	R-CHIP	"4.7Kohm,5%,1/16W,DA,TP,1005"	2007-000143
2	R221	R-CHIP	"4.7Kohm,5%,1/16W,DA,TP,1005"	2007-000143
2	R222	R-CHIP	"4.7Kohm,5%,1/16W,DA,TP,1005"	2007-000143
2	R223	R-CHIP	"4.7Kohm,5%,1/16W,DA,TP,1005"	2007-000143
2	R144	R-CHIP	"6.8Kohm,5%,1/16W,DA,TP,1005"	2007-000146
2	R120	R-CHIP	"10Kohm,5%,1/16W,DA,TP,1005"	2007-000148
2	R136	R-CHIP	"10Kohm,5%,1/16W,DA,TP,1005"	2007-000148
2	R182	R-CHIP	"10Kohm,5%,1/16W,DA,TP,1005"	2007-000148
2	R184	R-CHIP	"10Kohm,5%,1/16W,DA,TP,1005"	2007-000148
2	R185	R-CHIP	"10Kohm,5%,1/16W,DA,TP,1005"	2007-000148
2	R187	R-CHIP	"10Kohm,5%,1/16W,DA,TP,1005"	2007-000148
2	R124	R-CHIP	"15Kohm,5%,1/16W,DA,TP,1005"	2007-000151
2	R139	R-CHIP	"15Kohm,5%,1/16W,DA,TP,1005"	2007-000151
2	R101	R-CHIP	"20Kohm,5%,1/16W,DA,TP,1005"	2007-000152
2	R107	R-CHIP	"22Kohm,5%,1/16W,DA,TP,1005"	2007-000153
2	R132	R-CHIP	"22Kohm,5%,1/16W,DA,TP,1005"	2007-000153

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2	R150	R-CHIP	"22Kohm,5%,1/16W,DA,TP,1005"	2007-000153
2	R189	R-CHIP	"22Kohm,5%,1/16W,DA,TP,1005"	2007-000153
2	R211	R-CHIP	"22Kohm,5%,1/16W,DA,TP,1005"	2007-000153
2	R215	R-CHIP	"22Kohm,5%,1/16W,DA,TP,1005"	2007-000153
2	R216	R-CHIP	"22Kohm,5%,1/16W,DA,TP,1005"	2007-000153
2	R155	R-CHIP	"24Kohm,5%,1/16W,DA,TP,1005"	2007-000154
2	"R145,C162"	R-CHIP	"47Kohm,5%,1/16W,DA,TP,1005"	2007-000157
2	R210	R-CHIP	"47Kohm,5%,1/16W,DA,TP,1005"	2007-000157
2	R138	R-CHIP	"56Kohm,5%,1/16W,DA,TP,1005"	2007-000159
2	R111	R-CHIP	"100Kohm,5%,1/16W,DA,TP,1005"	2007-000162
2	R134	R-CHIP	"100Kohm,5%,1/16W,DA,TP,1005"	2007-000162
2	R135	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	R151	R-CHIP	"100Kohm,5%,1/16W,DA,TP,1005"	2007-000162
2	R172	R-CHIP	"100Kohm,5%,1/16W,DA,TP,1005"	2007-000162
2	R173	R-CHIP	"100Kohm,5%,1/16W,DA,TP,1005"	2007-000162
2	R174	R-CHIP	"100Kohm,5%,1/16W,DA,TP,1005"	2007-000162
2	R175	R-CHIP	"100Kohm,5%,1/16W,DA,TP,1005"	2007-000162
2	R176	R-CHIP	"100Kohm,5%,1/16W,DA,TP,1005"	2007-000162
2	R177	R-CHIP	"100Kohm,5%,1/16W,DA,TP,1005"	2007-000162
2	R178	R-CHIP	"100Kohm,5%,1/16W,DA,TP,1005"	2007-000162
2	R190	R-CHIP	"100Kohm,5%,1/16W,DA,TP,1005"	2007-000162
2	R109	R-CHIP	"120Kohm,5%,1/16W,DA,TP,1005"	2007-000163
2	R152	R-CHIP	"150Kohm,5%,1/16W,DA,TP,1005"	2007-000164
2	R153	R-CHIP	"150Kohm,5%,1/16W,DA,TP,1005"	2007-000164
2	R154	R-CHIP	"200Kohm,5%,1/16W,DA,TP,1005"	2007-000165
2	R186	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R115	R-CHIP	"1.5Kohm,5%,1/16W,DA,TP,1005"	2007-000242
2	R127	R-CHIP	"33Kohm,5%,1/16W,DA,TP,1005"	2007-000775
2	R214	R-CHIP	"39Kohm,5%,1/16W,DA,TP,1005"	2007-000831
2	R133	R-CHIP	"470ohm,5%,1/16W,DA,TP,1005"	2007-000932
2	R250	R-CHIP	"4.7ohm,5%,1/16W,DA,TP,1005"	2007-001284
2	"R212,R225"	R-CHIP	"33ohm,5%,1/16W,DA,TP,1005"	2007-001292
2	R168	R-CHIP	"51ohm,5%,1/16W,DA,TP,1005"	2007-001298
2	R169	R-CHIP	"51ohm,5%,1/16W,DA,TP,1005"	2007-001298
2	R170	R-CHIP	"51ohm,5%,1/16W,DA,TP,1005"	2007-001298
2	R171	R-CHIP	"51ohm,5%,1/16W,DA,TP,1005"	2007-001298
2	R218	R-CHIP	"150ohm,5%,1/16W,DA,TP,1005"	2007-001306

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2	R220	R-CHIP	"150ohm,5%,1/16W,DA,TP,1005"	2007-001306
2	R122	R-CHIP	"1.2Kohm,5%,1/16W,DA,TP,1005"	2007-001319
2	R213	R-CHIP	"13KOHM,5%,1/16W,DA,TP,1005"	2007-007015
2	R110	R-CHIP	"43KOHM,5%,1/16W,DA,TP,1005"	2007-007101
2	R141	R-CHIP	"100Kohm,1%,1/16W,DA,TP,1005"	2007-007107
2	R123	R-CHIP	"10Kohm,1%,1/16W,DA,TP,1005"	2007-007142
2	R142	R-CHIP	"68Kohm,1%,1/16W,DA,TP,1005"	2007-007589
2	C167	"C-CERAMIC,CHIP"	"1.5nF,10%,50V,X7R,TP,1005,-"	2203-000138
2	C103	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C105	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C106	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C121	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C122	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C130	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C152	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C154	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C156	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C100	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C116	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C118	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C119	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C127	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C158	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C159	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C164	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C170	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C182	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C183	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C184	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C185	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C133	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C151	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C153	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C160	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C102	"C-CERAMIC,CHIP"	"220pF,10%,50V,X7R,TP,1005,-"	2203-000585
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	C123	"C-CERAMIC,CHIP"	"470pF,10%,50V,X7R,TP,1005,-"	2203-000940
2	C135	"C-CERAMIC,CHIP"	"470pF,10%,50V,X7R,TP,1005,-"	2203-000940
2	C187	"C-CERAMIC,CHIP"	"470pF,10%,50V,X7R,TP,1005,-"	2203-000940

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2	"C186,C188,C190"	"C-CERAMIC,CHIP"	"47pF,5%,50V,NPO,TP,1005,-"	2203-000995
2	"C191,C192,C193,C194"	"C-CERAMIC,CHIP"	"47pF,5%,50V,NPO,TP,1005,-"	2203-000995
2	"C195,C196,C198"	"C-CERAMIC,CHIP"	"47pF,5%,50V,NPO,TP,1005,-"	2203-000995
2	C199	"C-CERAMIC,CHIP"	"47pF,5%,50V,NPO,TP,1005,-"	2203-000995
2	"C201,C202"	"C-CERAMIC,CHIP"	"47pF,5%,50V,NPO,TP,1005,-"	2203-000995
2	"C205,C206"	"C-CERAMIC,CHIP"	"47pF,5%,50V,NPO,TP,1005,-"	2203-000995
2	"C207,C208,C209,C210"	"C-CERAMIC,CHIP"	"47pF,5%,50V,NPO,TP,1005,-"	2203-000995
2	C101	"C-CERAMIC,CHIP"	"8.2nF,10%,16V,X7R,TP,1005,-"	2203-001210
2	C109	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005,"	2203-005061
2	C111	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005,"	2203-005061
2	C112	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005,"	2203-005061
2	C115	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005,"	2203-005061
2	C126	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005,"	2203-005061
2	C128	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005,"	2203-005061
2	C129	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005,"	2203-005061
2	C132	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005,"	2203-005061
2	C134	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005,"	2203-005061
2	C137	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005,"	2203-005061
2	C155	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005,"	2203-005061
2	"C161,C163,C211"	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005,"	2203-005061
2	C169	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005,"	2203-005061
2	C171	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005,"	2203-005061
2	C181	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005,"	2203-005061
2	"C197,C200"	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005,"	2203-005061
2	C220	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005,"	2203-005061
2	C221	"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	C139	"C-CERAMIC,CHIP"	"1uF,+80-20%,10V,Y5V,TP,1608,-"	2203-005065
2	C117	"C-TA,CHIP"	"1uF,20%,10V,GP,TP,2012,2,0"	2404-001017
2	C180	"C-TA,CHIP"	"1uF,20%,10V,GP,TP,2012,2,0"	2404-001017
2	C108	"C-TA,CHIP"	"33uF,20%,6.3V,GP,TP,3528,-"	2404-001032
2	C125	"C-TA,CHIP"	"33uF,20%,6.3V,GP,TP,3528,-"	2404-001032
2	C131	"C-TA,CHIP"	"100uF,20,6,LZ,TP,7343,-"	2404-001057
2	C110	"C-TA,CHIP"	"10uF,20%,6.3V,GP,TP,2012,-"	2404-001064
2	C136	"C-TA,CHIP"	"10uF,20%,6.3V,GP,TP,2012,-"	2404-001064
2	C138	"C-TA,CHIP"	"10uF,20%,6.3V,GP,TP,2012,-"	2404-001064
2	L105	INDUCTOR-SMD	"1uH,10%,0.8x1.6x0.8mm"	2703-000300
2	L101	INDUCTOR-SMD	"10uH,20%,4.45x6.6x2.92mm"	2703-001563
2	X101	RESONATOR-CERAMIC	"27MHz,0.5%,TP,3.2x2.1x1.5"	2802-001090
2	X102	RESONATOR-CERAMIC	"27MHz,0.5%,TP,3.2x2.1x1.5"	2802-001090

Level	Design LOC	ITEMS	DESCRIPTIONS	SEC.CODE
2	S1	SWITCH-REED	"100VDC,0.5A,1mS,1mS"	3409-001039
2	J105	CONNECTOR-FPC/FC/PIC	"22P,0.5mm,SMD-A,SN"	3708-001295
2	J110	CONNECTOR-SOCKET	"18P,1R,0.5mm,SMD-A,AUF"	3710-001429
2	J104	CONNECTOR-HEADER	"NOWALL,60P,2R,0.5mm,SMD-S,AUF"	3711-004027
2	J102	JACK-AC POWER	"2P,2.6PI,AU,BLK,NO"	3722-001172
2	-	PCB-SCH811 LOG	"SCH-811,-,8,0.8T,118X138MM"	GH41-00019A
2	VOL_KEY	UNIT-VOLKEY	"SCH-800,KBSCH800B,KEYPAD,FPC,-,-,"	GH59-00004A
2	MIC ASS'Y	ELA ETC-MIC	"SPH-7000,SAMSUNG,KORA,MICROPHO"	GH96-01156A
1	-	PBA MAIN-SCH810 RF	"SCH-810,SAMSUNG,BRAZ,RF,-,-,"	GH92-00759A
2	D400	DIODE-VARACTOR	"1SV279,15V,3nA,USC,TP"	0405-001035
2	D401	DIODE-VARACTOR	"1SV279,15V,3nA,USC,TP"	0405-001035
2	D402	DIODE-VARACTOR	"1SV279,15V,3nA,USC,TP"	0405-001035
2	D403	DIODE-VARACTOR	"1SV279,15V,3nA,USC,TP"	0405-001035
2	D310	DIODE-ARRAY	"DAN202U,80V,100mA,CA2-3,SC-70,"	0407-000115
2	D300	DIODE-PIN	"BAR63-02W,50V,100mA,SCD-80,TP"	0409-001016
2	D301	DIODE-PIN	"BAR63-02W,50V,100mA,SCD-80,TP"	0409-001016
2	Q402	TR-SMALL SIGNAL	"2SA1576,PNP,200MW,SOT-323,TP,180-390"	0501-000162
2	Q300	TR-SMALL SIGNAL	"2SC4081,NPN,200mW,UMT,TP,180-3"	0501-000218
2	U309	TR-SMALL SIGNAL	"AT-32011,NPN,200mW,SOT-143,TP,"	0501-002060
2	Q302	TR-SMALL SIGNAL	"BFP420,NPN,160MW,SOT-343,TP,50-150"	0501-002096
2	D302	TR-SMALL SIGNAL	"BCR400W,NPN,-,SOT-343,TP,-"	0501-002205
2	Q301	TR-SMALL SIGNAL	"BFP196W,NPN,700MW,SOT-343,TP,100"	0501-002240
2	Q401	TR-DIGITAL	"RN1102,NPN,100MW,10K/10K,SSM,TP"	0504-000167
2	Q303	TR-DIGITAL	"RN1104,NPN,100MW,47K/47K,SSM,TP"	0504-000168
2	U408	FET-SILICON	"SI3443DV,P,-20V,+3.5mA,65mohm"	0505-001165
2	U301	IC-ANALOG SWITCH	"SW395TR,SPDP,SOT-26,6P,-,DUAL,"	1001-001048
2	U409	IC-ANALOG MULTIPLEX	"MAX4524EUB-T,TTL/CMOS,SOP,10P,"	1001-001080
2	U404	IC-PREAMP	"01037,SOP,6P,59MIL,SINGLE,-,PL"	1201-001175
2	U310	IC-CASCODE AMP	"0916,SOT-143,4P,-,2.7V,-6Vd"	1201-001248
2	U407	IC-POWER AMP	"23124,LCC,8P,-,SINGLE,-,PLASTI"	1201-001259
2	U402	IC-AGC AMP	"3222,SOP,-,SINGLE,-,PLASTIC,"	1201-001261
2	U314	IC-OP AMP	"821,SOT23-5,5P,63MIL,SINGLE,-,"	1201-001348
2	U405	IC-OP AMP	"821,SOT23-5,5P,63MIL,SINGLE,-,"	1201-001348
2	U406	IC-OP AMP	"821,SOT23-5,5P,63MIL,SINGLE,-,"	1201-001348
2	U303	IC-RF AMP	"2617,SSOP,16P,150MIL,DUAL,3V/V"	1201-001366
2	U304	IC-VOLTAGE REGULATOR	"5205,SOT-23,5P,59MIL,PLASTIC,3"	1203-001256
2	U311	IC-VOLTAGE REGULATOR	"5205,SOT-23,5P,59MIL,PLASTIC,3"	1203-001256
2	U312	IC-VOLTAGE REGULATOR	"5205,SOT-23,5P,59MIL,PLASTIC,3"	1203-001256
2	U300	IC-MIXER	"CMY210,SOP,6P,-,PLASTIC,3 TO 6"	1205-001249
2	U401	IC-DATA COMM./GEN.	"Q5312I-3S2,QSOP,80P,138mm,PLAS"	1205-001451

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2	U403	IC-MIXER	"RF2628,MSOP,8P,190MIL,PLASTIC,"	1205-001535
2	U306	IC-PLL	"LMX2332LSLB,CSP,20P,-,PLASTIC,"	1209-001197
2	U313	THERMISTOR-NTC	"10Kohm,5%,3650K,-,TP"	1404-001040
2	U410	THERMISTOR-NTC	"10Kohm,5%,3650K,-,TP"	1404-001040
2	R325	R-CHIP	"2Kohm,5%,1/16W,DA,TP,1005"	2007-000137
2	R321	R-CHIP	"100ohm,5%,1/16W,DA,TP,1005"	2007-000138
2	R394	R-CHIP	"100ohm,5%,1/16W,DA,TP,1005"	2007-000138
2	R305	R-CHIP	"220ohm,5%,1/16W,DA,TP,1005"	2007-000139
2	R307	R-CHIP	"1Kohm,5%,1/16W,DA,TP,1005"	2007-000140
2	R309	R-CHIP	"1Kohm,5%,1/16W,DA,TP,1005"	2007-000140
2	R330	R-CHIP	"1Kohm,5%,1/16W,DA,TP,1005"	2007-000140
2	R426	R-CHIP	"1Kohm,5%,1/16W,DA,TP,1005"	2007-000140
2	R443	R-CHIP	"2.2Kohm,5%,1/16W,DA,TP,1005"	2007-000141
2	R315	R-CHIP	"5.1Kohm,5%,1/16W,DA,TP,1005"	2007-000144
2	R440	R-CHIP	"5.1Kohm,5%,1/16W,DA,TP,1005"	2007-000144
2	R324	R-CHIP	"6.2Kohm,5%,1/16W,DA,TP,1005"	2007-000145
2	R451	R-CHIP	"6.2Kohm,5%,1/16W,DA,TP,1005"	2007-000145
2	R411	R-CHIP	"10Kohm,5%,1/16W,DA,TP,1005"	2007-000148
2	R412	R-CHIP	"10Kohm,5%,1/16W,DA,TP,1005"	2007-000148
2	R417	R-CHIP	"10Kohm,5%,1/16W,DA,TP,1005"	2007-000148
2	R438	R-CHIP	"10Kohm,5%,1/16W,DA,TP,1005"	2007-000148
2	R306	R-CHIP	"12Kohm,5%,1/16W,DA,TP,1005"	2007-000149
2	R441	R-CHIP	"12Kohm,5%,1/16W,DA,TP,1005"	2007-000149
2	R452	R-CHIP	"12Kohm,5%,1/16W,DA,TP,1005"	2007-000149
2	R444	R-CHIP	"20Kohm,5%,1/16W,DA,TP,1005"	2007-000152
2	R310	R-CHIP	"47Kohm,5%,1/16W,DA,TP,1005"	2007-000157
2	R322	R-CHIP	"47Kohm,5%,1/16W,DA,TP,1005"	2007-000157
2	R401	R-CHIP	"47Kohm,5%,1/16W,DA,TP,1005"	2007-000157
2	R402	R-CHIP	"47Kohm,5%,1/16W,DA,TP,1005"	2007-000157
2	R435	R-CHIP	"47Kohm,5%,1/16W,DA,TP,1005"	2007-000157
2	R333	R-CHIP	"56Kohm,5%,1/16W,DA,TP,1005"	2007-000159
2	R395	R-CHIP	"68Kohm,5%,1/16W,DA,TP,1005"	2007-000160
2	R308	R-CHIP	"100Kohm,5%,1/16W,DA,TP,1005"	2007-000162
2	R332	R-CHIP	"100Kohm,5%,1/16W,DA,TP,1005"	2007-000162
2	R331	R-CHIP	"1Mohm,5%,1/16W,DA,TP,1005"	2007-000170
2	R425	R-CHIP	"1Mohm,5%,1/16W,DA,TP,1005"	2007-000170
2	C444	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	C445	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	L353	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R314	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171

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2	R316	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R320	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R327	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R329	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R396	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R398	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R406	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R407	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R408	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	R437	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R445	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R446	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R450	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R300	R-CHIP	"10ohm,5%,1/16W,DA,TP,1005"	2007-000172
2	R303	R-CHIP	"10ohm,5%,1/16W,DA,TP,1005"	2007-000172
2	R311	R-CHIP	"10ohm,5%,1/16W,DA,TP,1005"	2007-000172
2	R313	R-CHIP	"10ohm,5%,1/16W,DA,TP,1005"	2007-000172
2	R319	R-CHIP	"10ohm,5%,1/16W,DA,TP,1005"	2007-000172
2	R400	R-CHIP	"10ohm,5%,1/16W,DA,TP,1005"	2007-000172
2	R439	R-CHIP	"1.5Kohm,5%,1/16W,DA,TP,1005"	2007-000242
2	R421	R-CHIP	"270Kohm,5%,1/16W,DA,TP,1005"	2007-000636
2	R442	R-CHIP	"39Kohm,5%,1/16W,DA,TP,1005"	2007-000831
2	R424	R-CHIP	"430Kohm,5%,1/16W,DA,TP,1005"	2007-000899
2	R422	R-CHIP	"560Kohm,5%,1/16W,DA,TP,1005"	2007-001025
2	R302	R-CHIP	"24ohm,5%,1/16W,DA,TP,1005"	2007-001290
2	R427	R-CHIP	"51ohm,5%,1/16W,DA,TP,1005"	2007-001298
2	R399	R-CHIP	"150ohm,5%,1/16W,DA,TP,1005"	2007-001306
2	R301	R-CHIP	"200ohm,5%,1/16W,DA,TP,1005"	2007-001308
2	R328	R-CHIP	"910ohm,5%,1/16W,DA,TP,1005"	2007-001317
2	R410	R-CHIP	"1.8Kohm,5%,1/16W,DA,TP,1005"	2007-001320
2	R423	R-CHIP	"1.8Kohm,5%,1/16W,DA,TP,1005"	2007-001320
2	R334	R-CHIP	"36Kohm,5%,1/16W,DA,TP,1005"	2007-001335
2	R317	R-CHIP	"16OHM,5%,1/16W,DA,TP,1005"	2007-003006
2	R318	R-CHIP	"16OHM,5%,1/16W,DA,TP,1005"	2007-003006
2	R420	R-CHIP	"20OHM,5%,1/16W,DA,TP,1005"	2007-003010
2	R428	R-CHIP	"20OHM,5%,1/16W,DA,TP,1005"	2007-003010
2	R335	R-CHIP	"43KOHM,5%,1/16W,DA,TP,1005"	2007-007101

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2	R405	R-CHIP	"300ohm,1%,1/16W,DA,TP,1005"	2007-007133
2	R409	R-CHIP	"39Kohm,1%,1/16W,DA,TP,1005"	2007-007134
2	R403	R-CHIP	"1.2Kohm,1%,1/16W,DA,TP,1005"	2007-007137
2	R404	R-CHIP	"10Kohm,1%,1/16W,DA,TP,1005"	2007-007142
2	R449	R-CHIP	"10Kohm,1%,1/16W,DA,TP,1005"	2007-007142
2	R448	R-CHIP	"11.3Kohm,1%,1/16W,DA,TP,1005"	2007-007491
2	C303	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C310	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C311	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C315	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C316	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C326	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C337	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C341	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C342	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C344	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C349	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C350	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C362	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C363	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C365	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C367	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C369	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C370	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C373	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C393	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C400	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C410	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C416	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C426	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C428	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C432	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C434	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C448	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C454	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	L304	"C-CERAMIC,CHIP"	"100pF,5%,50V,NPO,TP,1005,-"	2203-000233
2	C343	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C356	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C359	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C366	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254

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2	C371	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C372	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C378	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C381	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C382	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C387	"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	C415	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C421	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C427	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C435	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C438	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C439	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C440	"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	C443	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C450	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C452	"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	C458	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C464	"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	C470	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C471	"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	C322	"C-CERAMIC,CHIP"	"10pF,0.5pF,50V,NPO,TP,1005,-"	2203-000278
2	C383	"C-CERAMIC,CHIP"	"10pF,0.5pF,50V,NPO,TP,1005,-"	2203-000278
2	C403	"C-CERAMIC,CHIP"	"10pF,0.5pF,50V,NPO,TP,1005,-"	2203-000278
2	C418	"C-CERAMIC,CHIP"	"18pF,5%,50V,NPO,TP,1005,-"	2203-000425
2	C301	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C320	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C323	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C327	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C361	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C407	"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	C419	"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	C423	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C424	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438

Level	Design LOC	ITEMS	DESCRIPTIONS	SEC.CODE
2	C425	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C430	"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	C437	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C449	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C455	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C457	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C459	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C463	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C345	"C-CERAMIC,CHIP"	"1pF,0.25pF,50V,NPO,TP,1005,-"	2203-000466
2	C346	"C-CERAMIC,CHIP"	"1pF,0.25pF,50V,NPO,TP,1005,-"	2203-000466
2	C329	"C-CERAMIC,CHIP"	"220pF,10%,50V,X7R,TP,1005,-"	2203-000585
2	C305	"C-CERAMIC,CHIP"	"22pF,5%,50V,NPO,TP,1005,-"	2203-000628
2	C351	"C-CERAMIC,CHIP"	"3.9nF,10%,50V,X7R,TP,1005,-"	2203-000725
2	C319	"C-CERAMIC,CHIP"	"33pF,5%,50V,NPO,TP,1005,-"	2203-000812
2	C391	"C-CERAMIC,CHIP"	"33pF,5%,50V,NPO,TP,1005,-"	2203-000812
2	C401	"C-CERAMIC,CHIP"	"39pF,5%,50V,NPO,TP,1005,-"	2203-000854
2	C402	"C-CERAMIC,CHIP"	"39pF,5%,50V,NPO,TP,1005,-"	2203-000854
2	C321	"C-CERAMIC,CHIP"	"3pF,0.25pF,50V,NPO,TP,1005,-"	2203-000870
2	C324	"C-CERAMIC,CHIP"	"3pF,0.25pF,50V,NPO,TP,1005,-"	2203-000870
2	C338	"C-CERAMIC,CHIP"	"3pF,0.25pF,50V,NPO,TP,1005,-"	2203-000870
2	C508	"C-CERAMIC,CHIP"	"3pF,0.25pF,50V,NPO,TP,1005,-"	2203-000870
2	C318	"C-CERAMIC,CHIP"	"4.7nF,10%,25V,X7R,TP,1005,-"	2203-000885
2	C328	"C-CERAMIC,CHIP"	"4.7nF,10%,25V,X7R,TP,1005,-"	2203-000885
2	C332	"C-CERAMIC,CHIP"	"4.7nF,10%,25V,X7R,TP,1005,-"	2203-000885
2	C340	"C-CERAMIC,CHIP"	"4.7nF,10%,25V,X7R,TP,1005,-"	2203-000885
2	C357	"C-CERAMIC,CHIP"	"4.7nF,10%,25V,X7R,TP,1005,-"	2203-000885
2	C360	"C-CERAMIC,CHIP"	"4.7nF,10%,25V,X7R,TP,1005,-"	2203-000885
2	C376	"C-CERAMIC,CHIP"	"4.7nF,10%,25V,X7R,TP,1005,-"	2203-000885
2	C379	"C-CERAMIC,CHIP"	"4.7nF,10%,25V,X7R,TP,1005,-"	2203-000885
2	C384	"C-CERAMIC,CHIP"	"4.7nF,10%,25V,X7R,TP,1005,-"	2203-000885
2	C390	"C-CERAMIC,CHIP"	"4.7nF,10%,25V,X7R,TP,1005,-"	2203-000885
2	C395	"C-CERAMIC,CHIP"	"4.7nF,10%,25V,X7R,TP,1005,-"	2203-000885
2	C398	"C-CERAMIC,CHIP"	"4.7nF,10%,25V,X7R,TP,1005,-"	2203-000885
2	C325	"C-CERAMIC,CHIP"	"470pF,10%,50V,X7R,TP,1005,-"	2203-000940
2	C333	"C-CERAMIC,CHIP"	"470pF,10%,50V,X7R,TP,1005,-"	2203-000940
2	C334	"C-CERAMIC,CHIP"	"470pF,10%,50V,X7R,TP,1005,-"	2203-000940
2	C368	"C-CERAMIC,CHIP"	"470pF,10%,50V,X7R,TP,1005,-"	2203-000940
2	C388	"C-CERAMIC,CHIP"	"470pF,10%,50V,X7R,TP,1005,-"	2203-000940
2	C405	"C-CERAMIC,CHIP"	"470pF,10%,50V,X7R,TP,1005,-"	2203-000940

Level	Design LOC	ITEMS	DESCRIPTIONS	SEC.CODE
2	C461	"C-CERAMIC,CHIP"	"470pF,10%,50V,X7R,TP,1005,-"	2203-000940
2	C446	"C-CERAMIC,CHIP"	"47pF,5%,50V,NPO,TP,1005,-"	2203-000995
2	C462	"C-CERAMIC,CHIP"	"47pF,5%,50V,NPO,TP,1005,-"	2203-000995
2	C312	"C-CERAMIC,CHIP"	"4pF,0.25pF,50V,NPO,TP,1005,-"	2203-001017
2	C353	"C-CERAMIC,CHIP"	"56pF,5%,50V,NPO,TP,1005,-"	2203-001072
2	C411	"C-CERAMIC,CHIP"	"68pF,5%,50V,NPO,TP,1005,-"	2203-001153
2	C412	"C-CERAMIC,CHIP"	"68pF,5%,50V,NPO,TP,1005,-"	2203-001153
2	C304	"C-CERAMIC,CHIP"	"7pF,0.5pF,50V,NPO,TP,1005,-"	2203-001201
2	C441	"C-CERAMIC,CHIP"	"8.2nF,10%,16V,X7R,TP,1005,-"	2203-001210
2	"C302,L306"	"C-CERAMIC,CHIP"	"8pF,0.5pF,50V,NPO,TP,1005,-"	2203-001259
2	C386	"C-CERAMIC,CHIP"	"33nF,10%,16V,Y5V,TP,1005,1.0mm"	2203-001416
2	C300	"C-CERAMIC,CHIP"	"47nF,10%,16V,Y5V,TP,1005,1.0mm"	2203-001432
2	C314	"C-CERAMIC,CHIP"	"47nF,10%,16V,Y5V,TP,1005,1.0mm"	2203-001432
2	C331	"C-CERAMIC,CHIP"	"47nF,10%,16V,Y5V,TP,1005,1.0mm"	2203-001432
2	C336	"C-CERAMIC,CHIP"	"47nF,10%,16V,Y5V,TP,1005,1.0mm"	2203-001432
2	C355	"C-CERAMIC,CHIP"	"47nF,10%,16V,Y5V,TP,1005,1.0mm"	2203-001432
2	C429	"C-CERAMIC,CHIP"	"47nF,10%,16V,Y5V,TP,1005,1.0mm"	2203-001432
2	C307	"C-CERAMIC,CHIP"	"5pF,0.25pF,50V,X7R,TP,1005,1.0"	2203-001437
2	C309	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005,"	2203-005061
2	C313	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005,"	2203-005061
2	C339	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005,"	2203-005061
2	C354	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005,"	2203-005061
2	C364	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005,"	2203-005061
2	C380	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005,"	2203-005061
2	C417	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005,"	2203-005061
2	C420	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005,"	2203-005061
2	C436	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005,"	2203-005061
2	C451	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005,"	2203-005061
2	C413	"C-CERAMIC,CHIP"	"6pF,0.1pF,50V,NPO,TP,1005,-"	2203-005382
2	C408	"C-TA,CHIP"	"1uF,20%,10V,GP,TP,2012,2.0"	2404-001017
2	C467	"C-TA,CHIP"	"33uF,20%,6.3V,GP,TP,3528,-"	2404-001032
2	C317	"C-TA,CHIP"	"10uF,20%,6.3V,GP,TP,2012,-"	2404-001064
2	C347	"C-TA,CHIP"	"10uF,20%,6.3V,GP,TP,2012,-"	2404-001064
2	C348	"C-TA,CHIP"	"10uF,20%,6.3V,GP,TP,2012,-"	2404-001064
2	C358	"C-TA,CHIP"	"10uF,20%,6.3V,GP,TP,2012,-"	2404-001064
2	C374	"C-TA,CHIP"	"10uF,20%,6.3V,GP,TP,2012,-"	2404-001064
2	C375	"C-TA,CHIP"	"10uF,20%,6.3V,GP,TP,2012,-"	2404-001064
2	C396	"C-TA,CHIP"	"10uF,20%,6.3V,GP,TP,2012,-"	2404-001064
2	C399	"C-TA,CHIP"	"10uF,20%,6.3V,GP,TP,2012,-"	2404-001064
2	C414	"C-TA,CHIP"	"10uF,20%,6.3V,GP,TP,2012,-"	2404-001064

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2	C460	"C-TA,CHIP"	"10uF,20%,6.3V,GP,TP,2012,-"	2404-001064
2	C465	"C-TA,CHIP"	"10uF,20%,6.3V,GP,TP,2012,-"	2404-001064
2	C453	"C-TA,CHIP"	"4.7uF,20%,6.3V,GP,TP,2012,-"	2404-001086
2	C385	"C-TA,CHIP"	"3.3uF,20%,6.3V,GP,TP,2012,-"	2404-001087
2	C389	"C-TA,CHIP"	"3.3uF,20%,6.3V,GP,TP,2012,-"	2404-001087
2	C447	"C-TA,CHIP"	"3.3uF,20%,6.3V,GP,TP,2012,-"	2404-001087
2	C498	"C-TA,CHIP"	"3.3uF,20%,6.3V,GP,TP,2012,-"	2404-001087
2	C499	"C-TA,CHIP"	"3.3uF,20%,6.3V,GP,TP,2012,-"	2404-001087
2	C352	"C-TA,CHIP"	"220nF,20%,20V,GP,TP,2012,-"	2404-001092
2	L315	INDUCTOR-SMD	"470nH,10%,0.8x1.6x0.8mm"	2703-000213
2	L316	INDUCTOR-SMD	"470nH,10%,0.8x1.6x0.8mm"	2703-000213
2	L312	INDUCTOR-SMD	"390nH,10%,0.8x1.6x0.8mm"	2703-000297
2	L403	INDUCTOR-SMD	"1uH,10%,0.8x1.6x0.8mm"	2703-000300
2	L310	INDUCTOR-SMD	"100nH,5%,1.6x0.8x0.8mm"	2703-001172
2	L400	INDUCTOR-SMD	"33nH,5%,1.6x0.8x0.8mm"	2703-001174
2	L307	INDUCTOR-SMD	"18nH,5%,1.6x0.8x0.8mm"	2703-001189
2	L313	INDUCTOR-SMD	"120nH,10%,1.6x0.8x0.8mm"	2703-001220
2	L305	INDUCTOR-SMD	"39nH,5%,1.6x0.8x0.8mm"	2703-001285
2	L319	INDUCTOR-SMD	"8.2nH,10%,1x0.5x0.5mm"	2703-001408
2	L320	INDUCTOR-SMD	"8.2nH,10%,1x0.5x0.5mm"	2703-001408
2	L323	INDUCTOR-SMD	"8.2nH,10%,1x0.5x0.5mm"	2703-001408
2	L351	INDUCTOR-SMD	"12nH,10%,1x0.5x0.5mm"	2703-001409
2	L410	INDUCTOR-SMD	"12nH,10%,1x0.5x0.5mm"	2703-001409
2	L402	INDUCTOR-SMD	"68nH,5%,1.8x1.12x1.02mm"	2703-001514
2	L404	INDUCTOR-SMD	"120nH,5%,1.7x1.14x1.02mm"	2703-001546
2	L405	INDUCTOR-SMD	"120nH,5%,1.7x1.14x1.02mm"	2703-001546
2	L301	INDUCTOR-SMD	"47nH,5%,1.0x0.5x0.5mm"	2703-001595
2	L303	INDUCTOR-SMD	"47nH,5%,1.0x0.5x0.5mm"	2703-001595
2	L322	INDUCTOR-SMD	"5.6nH,10%,1.0x0.5x0.5mm"	2703-001708
2	L406	INDUCTOR-SMD	"33nH,5%,1.0x0.5x0.5mm"	2703-001723
2	L407	INDUCTOR-SMD	"22nH,5%,1x0.5x0.5mm"	2703-001727
2	L308	INDUCTOR-SMD	"15nH,5%,1x0.5x0.5mm"	2703-001730
2	L350	INDUCTOR-SMD	"15nH,5%,1x0.5x0.5mm"	2703-001730
2	L302	INDUCTOR-SMD	"6.8nH,5%,1x0.5x0.5mm"	2703-001734
2	L330	INDUCTOR-SMD	"6.8nH,5%,1x0.5x0.5mm"	2703-001734
2	L311	INDUCTOR-SMD	"100nH,2%,2.29x1.73x1.52mm"	2703-001743
2	U307	OSCILLATOR-VCO	"954MHz,-,-,TP,3.3V,6.4mA"	2806-001146
2	U305	OSCILLATOR-VCTCXO	"19.68MHZ,2.5PPM,10KOHM//10PF,TP,3V,2MA"	2809-001225
2	F302	FILTER-SAW	"85.38MHz,0.630MHz,0.3MHz/0.3dB"	2904-001128
2	F304	FILTER-SAW	"967MHz,25MHz,967MHz/0.5dB,TP,9"	2904-001133

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2	F400	FILTER-SAW	"836.5MHz,25MHz,+25MHz/0.9dB,T"	2904-001135
2	F301	FILTER-SAW	"881.5MHz,25MHz,+25MHz/0.9dB,T"	2904-001136
2	F401	FILTER-SAW	"836.50MHz,-,849MHz/1dB,TP,849M"	2904-001138
2	F300	FILTER-DUPLEXER	"881.5MHz,836.5MHz,4/2.7dB,TP,8"	2909-001077
2	BUZZ	BUZZER-MAGNETIC	"88dB,3.6V,90mA,2.731KHz,TP"	3002-001062
2	L300	CORE-FERRITE	"AB,1.6x0.8x0.8mm,-,-"	3301-001105
2	L309	CORE-FERRITE	"AB,1.6x0.8x0.8mm,-,-"	3301-001105
2	L317	CORE-FERRITE	"AB,1.6x0.8x0.8mm,-,-"	3301-001105
2	L321	CORE-FERRITE	"AB,1.6x0.8x0.8mm,-,-"	3301-001105
2	L325	CORE-FERRITE	"AB,1.6x0.8x0.8mm,-,-"	3301-001105
2	L326	CORE-FERRITE	"AB,1.6x0.8x0.8mm,-,-"	3301-001105
2	L328	CORE-FERRITE	"AB,1.6x0.8x0.8mm,-,-"	3301-001105
2	L409	CORE-FERRITE	"AB,1.6x0.8x0.8mm,-,-"	3301-001105
2	J301	CONNECTOR-COAXIAL	"SMC,JACK,100mohm,50ohm,0.5dB"	3705-001163
2	J300	CONNECTOR-SOCKET	"60P,2R,0.5mm,SMD-S,AUF"	3710-001390
2	U308	RF POWER SPLITTER	"2WAY,955-979MHz,12dB,-,TP"	4709-001080
2	-	PCB-SCH811 RF	"SCH-811,-,6,0.8T,118X90MM"	GH41-00020A
2	PBA MAIN RF	RMO-HOLDER BUZZER	"SCH-800,CR RUBBER,11x9xT3.5,BL"	GH73-40735A
1	-	MEA FRONT-SCH811B	"SCH-800,PCL,ISRL,-,-,-"	GH97-00918A
2	FOLDER ASSY	SCREW-MACHINE	"CH,+M1.7,L2,ZPC(BLK),SWRCH18"	6001-000876
2	FRONT-COVER	PMO-HINGE DUMMY	"SCH-800,PC,BLK,-,-"	GH72-00067A
2	-	PMO-DECORATION B(CHNA)	"SGH-800,ABS,B/PEL,-,-"	GH72-00264C
2	WINDOW-LCD	PPR-TAPE WINDOW BOHO	"SCH-100,VINYL TAPE,TRP,-,-"	GH72-10001A
2		LABEL(M)-LOGO BADGE PCL	SCH-811 BLK	GH68-00365A
2	-	RMO-KEY PAD HEBREW	"SCH-811,-,-,BLK,-"	GH73-00080A
2	FRONT-COVER	RMO-HOLDER MIC	"SPH7000,SI RUBBER,PI8.0,T5.0,B"	GH73-40708A
2	SPEAKER	MPR-SPONGE SPEAK	"SCH-800,FOAM,®™8.5XT0.4,BLK,-"	GH74-00012A
2	FOLDER-UPPER	MPR-DECO BOHO VINYL	"SCH-800,VINYL,27X32.5X0.2,TRP,-"	GH74-00084A
2	-	MEC-FOLDER UPPER 811B	"SCH-811,PCL,BLK"	GH75-00139A
3	-	PMO-FOLDER UPPER 811B	"SCH-811,PC,BLK,-,-"	GH72-00285A
3	-	MCT-SHIELD GASKET	"SCH-800B,GASKET(SHIELD),30X34XT0.7,GRY,-"	GH74-00011A
3	-	MPR-TAPE UPPER	"SCH-800B,TESA 983,8X8XT0.15,TRP,-"	GH74-00031A
3	-	MPR-TAPE DECORATION	"SCH-800,TESA4965,16.9x23xT0.2,"	GH74-10772A
2	-	MEC-FOLDER LOWER 811B	"SCH-811,PCL,BLK"	GH75-00143A
3	-	NPR-BRACKET FOLDER	"SPH7000,C5210S-1/2H,T0.5,NI"	GH71-10722A
3	-	NPR-BRACKET FOLDER R	"SPH7000,C5210S-1/2H,T0.5,NI"	GH71-10726A
3	-	PMO-EARPIECE 811B	"SCH-811,PC,BLK,-,-"	GH72-00281A
3	-	PPR-PC SHEET LCD	"SCH-800,PC SHEET T0.6,BLK,-,-"	GH72-10545A
3	-	PMO-FOLDER LOWER	"SCH-800,PC,BLK,-,LEXAN SP-1210"	GH72-41804A
3	-	MPR-TAPE EAR PIECE	"SCH-800,FOAM TAPE,5X4XT0.4,BLK,-"	GH74-00005A

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3	-	MPR-SPONGE EAR PIECE	"SCH-800B,PE SPONGE,8X11XT0.5,WHT,-"	GH74-00029A
3	-	MPR-SPONGE LCD	"SCH-800,SPONGE,41.5x38xT1.0,BL"	GH74-10774A
3	-	MPR-TAPE WINDOW LCD	"SCH-800,TESA4965,41.5X38XT0.2,"	GH74-10775A
3	-	MPR-TAPE VIBRATOR	"SCH-800,TESA4965,PI13xT0.2,TRP"	GH74-10776A
3	-	MEC-HINGE	"SCH-800,SEC,BLK"	GH75-11337A
4	HINGE	SPRING-HINGE	"SPH7000,PW2,PI5.0,D0.7,L11.2,-"	GH61-70056A
4	HINGE	HINGE-CAM	"SPH7000,ACETAL,BLK"	GH61-80004A
4	HINGE	HINGE-SHAFT	"SPH7000,ACETAL,BLK"	GH61-80005A
4	HINGE	HINGE-HOUSING	"SCH-800,PC(LEXAN SP-1210R),BLK"	GH61-80007A
4	HINGE-ASSY	ICT-MAGNET	"SCH-800B,ALLOY(AL+NI+CO),(3X15)T1.0,NTR"	GH70-00009A
2	-	MEC-FRONT COVER	"SCH-800,SEC,BLK"	GH75-11334A
3	FRONT-COVER	PMO-FRONT COVER	"SCH-800,PC,BLK,-,LEXAN SP-1210"	GH72-41800A
3	FRONT-COVER	PMO-REFLECTOR LED	"SCH-800,ACRYL,M/WHT,-,-"	GH72-41801A
2	-	ELA HOU-LCD ASSY	"SCH-811,SAMSUNG,-,LCD+MOTOR+SPKER,-,-,-"	GH96-00798A
1	-	MEA REAR-SCH800	"SCH-800,SEC,KOR,BLK,-,-,-"	GH97-01432A
2	REAR-COVER	LABEL(R)-QUALCOMM	"SCH-100F,VINYL,12X6,0.12,TRP"	GH68-30846A
2	REAR-COVER	MPR-SHIELD TAPE	"SCH-800B,CLOTH(SHIELD),30X8XT0.1,GRY,-"	GH74-00027A
2	-	MEC-REAR COVER	"SCH-800,SEC,BLK"	GH75-11338A
3	REAR-COVER	SPRING-LOCKER	"SPH7000,PW2,PI.8,D0.2,4.4,-"	GH61-70054A
3	REAR COVER	NPR-GROUND PLATE	"SCH-800B,C5210-3/4H,T0.1,-"	GH71-00010A
3	REAR-COVER	NPR-BRACKET ANT	"SCH-800,C2801S-1/4H,T0.5,AU(0."	GH71-10742A
3	REAR-COVER	PMO-LOCKER BATT	"SCH-800,PC,BLK,-,-"	GH72-00068A
3	REAR-COVER	PMO-REAR COVER	"SCH-800,PC,BLK,-,LEXAN SP-1210"	GH72-41806A
1	-	PAA MAIN-PACKING 811 PCL	"SCH-811,PCL,ISRL,-,-,-,-"	GH99-02153A
2	-	BAG-PE	"PE,T0.06,150X300,-"	GA69-30508A
2	-	PAC-SILICAGEL	"SiO2,50x40,5,SKP-816H"	GA69-90502A
2	-	BAG-LDPE	"PELD,T0.06,100X260,SP-RM928"	GG69-30517A
2	-	LABEL(P)-SHIPPING 811 PCL	"SCH-811,CRAFT-PAPER 100G,250X180,-,BRN"	GH68-00386A
2	-	BOX(P)-MAIN GIFT BOX 811 IS	"-,SCH-811,-,171X220X94,-"	GH69-00169A
2	-	CUSHION-MAIN 811	"SCH-811,-,165X223X90"	GH69-00170A
2	-	CUSHION—DUMMY MANUAL	"SCH-811,SW5,124X208"	GH69-00185A
2	-	BOX(P)-MASTER MAIN	"SPRINT,SCH-2000,DW-3,498X355X2"	GH69-11133A
2	-	CUSHION-PAD MAIN	"SCH-2000,DW-3,483X340XT7"	GH69-20666A
2	-	CUSHION-PAD SIDE	"SCH-2000,DW-3,340X230XT7"	GH69-20667A
2	-	BAG-STD BATT.	"PE,T0.06,70X170,SCH-1011"	GH69-30503A
2	-	BAG-MANUAL	"PP,T0.06,125*280,SCH-1011"	GH69-30518A

8-2 Desk-top charger part List

No	Design LOC	DESCRIPTIONS	SEC CODE	REMARKS
1	C7, C8	Y-CAP 2, 2nF, 20%, 250V	2201-001004	
2	C1	X-CAP 100nF, 20%, 250V	2301-001092	
3	C2, C3	CAP-FELECTRONIC 10uF, 400V, 85°C 10x16	2401-00	
4	C21, C332	CAP-FELECTRONIC 680uF, 16V, 105°C 10x13	2401-003090	
5	C23, C33	CAP-FELECTRONIC 220uF, 16V, 85°C 6x11	2401-000804	
6	C36	CAP-FELECTRONIC 47uF, 16V, 85°C 5x7	2401-00	
7	C6, C41	CAP-FELECTRONIC 10uF, 50V, 105°C 5x11	2401-00	
8				
9	F1	FUSE 250VAC, 2A 5x15 BLACK-TUBING	3601-001125	
10	LD1, LD2	LED RED/GRN-DUAL 3 (ROUND)	0601-00	
11	BD1	DIODE-BRIDGE 600V, 1A	0402-000003	
12	D2, D3	DIODE-FR 1000V, 1A	0402-000012	
13	D21, D31, D32	DIODE-SCHOTKY 40V, 1A	0402-000358	
			0402-000124	
14	D30	DIODE-FR 200V, 1.5A/2A	0402-000205	
15	D20	DIODE-SCHOTKY 60V, 5A	0402-000467	
16	TH1	THERMISTER 5Ω, 10Ø	1404-000128	
			1404-001083	
17	D1	TRANSIENT VOLTAGE 160V, 600W	0403-001028	
18	U1	SUPPRESSOR TO-220, 700V, 1A	0505-00	
19	U26	IC-pemto 35V, 1.5A, DIP-8P	1203-000391	
20	U21	IC-SWITCHING 5V, 100mA, TO-92	1203-000542	
21	PC1	IC-VOLTAGE REGULATER 120-180%, 200mW	0604-001098	
		DIP-4P, ST	0604-000191	
22	R21	PHOTO-OOUPLER 51Ω, 2W, 5%	2003-000327	
23	R15, R16	R-METAL OXIDE 1/2W, 4.7MΩ, 5%	2009-001039	
24	R51	R-SURGE 10KΩ, 25°C	1404-000215	
			1404-001014	
25	VR1, VR2	R-NTC 1KΩ, 1/10W, 30% TOP, TP	2103-000210	
26	TNR1	R-SEMIFIX 470V, 2500A, 300V, 3000A	1405-000001	
			1405-000193	
27	J01-15	VARISTOR 0.6*52mm, SDACW	3811-000545	
28	R26, R27, R45, R16	WIRE-NO SHEATH 1Ω, 1/4W, 1%, TP		
29	R35, R52	R-METAL FILM 47KΩ, 1/8W, 5%, TP		
30	R33, R47	R-CARBON FILM 4.7KΩ, 1/8W, 1%, TP		
31	CHT009	R-METAL FILM CHT09, 0.8mA, EE1916	ML26-00274A	
32	LF1	S/W TRANS UU1014-V, 22mH(MIN)	ML29-00023K	
33	L22	LINE-FILTER 120uH, 10X5, 0, 40	ML27-00	
34	L21	COIL-CHOKE(TROIDAL) 7uH 5X7,5	ML27-00252A	
35	C25	COIL-CHOKE (DRUM) 2012, 104K, X7R, 50V	2203-000206	

No	Design LOC	DESCRIPTIONS	SEC CODE	REMARKS
35			2203-000204	
36	C4, C23, C24	CAP-CHIP 2012, 474Z, Y5V, 50V	2203-000922	
37	C44	CAP-CHIP 2012, 474K, X7R, 50V	2203-000985	
			2203-000979	
38	C34	CAP-CHIP 2012, 101J, NPO, 50V	2203-002278	
39	C5, C7	CAP-CHIP 2012, 103K, X7R, 50V	2203-001458	
40	C28, C30, C33, C42, C43, C45	CAP-CHIP 2012, 104Z, Y52, 50V	2203-000192	
41	C26	CAP-CHIP 2012, 224K, X7R, 25V	2203-001604	
			2203-000575	
42	U25	u-com u-com, 8bit, SOP-32P	0903-001148	
43	U22	IC-OP AMP 28V, 150pA, DUAL	1201-000166	
		SOP-8P	1201-000167	
44	U23, U24	IC-COMPERATER 36V, 1mA, DUAL	1202-000188	
		SOP-8P	1202-000104	
			1202-000187	
45	Q23	FET-DUAL 12V, 5A, 0.05	0505-001180	
		P-CHANNEL SO-8P		
46	Q21, Q22, Q24	TR-PNP SOT-23, 60V, 600mA	0501-000462	
47	D33	DIODE-ULTRA HIGH SPEED SOT-23, 80V, 100mW	0407-000114	
48				
49	R24, R44	R-CHIP 2012, 620Ω, 1%	2007-000	
50	R25	R-CHIP 2012, 680Ω, 1%	2007-000	
51	R28, R31, R32, R48, R63	R-CHIP 2012, 10KΩ, 1%	2007-000297	
52	R36, R53	R-CHIP 2012, 470KΩ, 1%	2007-000922	
53	R34, R51	R-CHIP 2012, 150KΩ, 1%	2007-000	
54	R40, R49	R-CHIP 2012, 12KΩ, 1%	2007-000352	
55	R61	R-CHIP 2012, 27KΩ, 1%	2007-000	
56	R23, R43, R60	R-CHIP 2012, 91Ω, 1%	2007-001677	
57	R64, R65, R66, R7	R-CHIP 2012, 470Ω, 1%	2007-000	
58	R41	R-CHIP 2012, 4.7KΩ, 1%	2007-000868	
59	R37, R54	R-CHIP 2012, 2.4KΩ, 1%	2007-00508	
60				
61	R38, R55, R69, R70	R-CHIP 2012, 47KΩ, 5%	2007-000	
62	R1, R2	R-CHIP 2012, 10Ω, 5%	2007-000	
63	R29, R47	R-CHIP 2012, 2.2KΩ, 5%	2007-000493	
64	R30, R42, R68	R-CHIP 2012, 1KΩ, 5%	2007-000	
65	R4	R-CHIP 2012, 750Ω, 5%	2007-000	
66	R22	R-CHIP 2012, 180Ω, 5%	2007-000	
67	R3	R-CHIP 2012, 5.6Ω, 5%	2007-000	

No	Design LOC	DESCRIPTIONS	SEC CODE	REMARKS
68				
69	B1, B2	CHIP-BEAD 3x4, CHIP-BEAD	3301-000329	
70	CN21	BAIT-CONNENTOR- 4P, 3.0mm	ML74-001411	
		FRONT, REAR 30x9x10		
71	CON1	CONNECTOR-C/B 3.9mm, 3(2)P	3711-000203	
72		CASE ASS'Y-COVER COVER (1)	ML72-00	
		GATE LABEL (1)		
		BATT HOUSING (1)		
		BATT LOCKER (1)		
		TH+M3x8, BLK (1)		
73		CASE ASS'Y-BOTTOM BOTTOM (1), BOMPON (4)	ML72-00	
74		LABEL, DTC81 30x50x0.15	ML68-0	
75	(BOTTBM)	SCREW-TAP PH+, 2.6x12, BLK	ML60-00001A	
76		PCB-MAIN DTC81 FR-1, loz, 125x64x1.2	ML41-00	
77		PWR-CORD	ML39-00	
78	(U1)	HEAT-SINK(U1) 15x13x5x1.0	ML62-00133A	
79	(U1)	SCREW-TAP(U1) PH+, M3x6	6001-000563	
80		ADHESIVE-SEALANT DC739, 40RTV	0201-001029	
			0201-000303	
81		VINIL SACK 170x350x0.05, WHITE		
82		SOLDER-WIRE KR-19, S60A, D1.0	0202-000178	
			0202-000193	
83		ALCOHL (CH3)2CHOM	0204-000429	
84		FLUX-SOLDER 920-CFX	MF02-00020A	
			0202-000226	
85		SOLDER-WIRE D3, 0, Sn60%	ML74-00113A	

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.		

No	Design LOC	DESCRIPTIONS	SEC. CODE	REMARKS
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	DESCRIPTION	SEC. CODE	REMARKS
1	ZD201, ZD202	ZENER DIODE 5.1V 0.5W - DIP		
2	ZD1	TVS DIODE P6KE33 - DIP		
3	D5, D7, D101, D102	DIODE 1N4148 - DIP		
4	D1, D2, D3	DIODE 1N5818 - DIP		
5	D100	DIODE SDS7000 - CHIP		
6	R278	RESISTOR CH2012 1ohm-J 5%		
7	R9	RESISTOR CH2012 910ohm-F 1%		
8	R8	RESISTOR CH2012 8.2K-F 1%		
9	R3, R13, R131	RESISTOR CH2012 100ohm-J 5%		
10	R51, R52, R139, R272	RESISTOR CH2012 220ohm-J 5%		
11	R279	RESISTOR CH2012 270ohm-J 5%		
12	R137, R138	RESISTOR CH2012 330ohm-J 5%		
13	R31, R32, R225, R251, R257, R270	RESISTOR CH2012 1K-J 5%		
14	R132	RESISTOR CH2012 1.8K-J 5%		
15	R213, R217, R228, R229, R230, R231	RESISTOR CH2012 2.2K-J 5%		
16	R271	RESISTOR CH2012 2.4K-J 5%		
17	R1, R7, R112	RESISTOR CH2012 2.7K-J 5%		
18	R18	RESISTOR CH2012 3K-J 5%		
19	R12	RESISTOR CH2012 3.9K-J 5%		
20	R38, R110, R113, R117, R119, R268 R275	RESISTOR CH2012 4.7K-J 5%		
21	R57, R233, R248	RESISTER CH2012 5.1K-J 5%		
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 CH 2012 10K-J 5%		
23	R269	RESISTER CH 2012 560 ohm-J 5%		
24	R102	RESISTER CH 3216 10K-J 5%		
25	R43	RESISTER CH 3216 12K-J 5%		
26	R54, R267	RESISTER CH 3216 10K-J 5%		

No	Design LOC	DESCRIPTIONS	SEC.CODE	REMARKS
27	R19, R128, R266	RESISTER CH 2012 12K-J 5%		
28	R24	RESISTER CH 2012 15K-J 5%		
29	R106, R107, R121, R127, R277	RESISTER CH 2012 18K-J 5%		
30	R16, R126	RESISTER CH 2012 22K-J 5%		
31	R40, R222, R223, R224	RESISTER CH 2012 27K-J 5%		
32	R4, R21, R37, R101, R105	RESISTER CH 2012 33K-J 5%		
	R136, R140, R259, R273			
33	R133, R134	RESISTER CH 2012 47K-J 5%		
34	R227	RESISTER CH 2012 56K-J 5%		
35	R216, R226	RESISTER CH 2012 68K-J 5%		
36	R36, R42, R53, R103, R125,	RESISTER CH 2012 82K-J 5%		
	R129			
	R141, R214, R261			
37	R26	RESISTER CH 2012 100K-J 5%		
38	R39	RESISTOR CH 2012 220K-J 5%		
39	R29	RESISTOR CH 2012 1M-J 5%		
40	R14	RESISTOR CH 2012 5.6K-J 5%		
41	R50	RESISTOR 0.1 ohm/1W-F-DIP		
42	L6	RESISTOR 22 ohm/1W-J-DIP		
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,	ELEC. CAPACITOR 470UF/16V (8*11.5)85°C		
	C43, C45, C260			
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	CERAMIC CAPACITOR CH 2012 B330P-J (330)		
	C108, C109, C110, C111,			
	C112, C111133,, C114, C115,			
	C1116, C117, C118, C119,			
	C201, C202, C215. C216,			
	C217			
56	C17	CERAMIC CAPACITOR CH 2012 B470P-K (471)		
57	C5, C25, C209, C218, C222,	CERAMIC CAPACITOR CH2012 B102-K (102)		

No	DESIGN LOC	DESCRIPTION	SEC. CODE	REMARKS
	C223, C261			
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		
83	U206	IC 93C66 - CHIP		
84	U208	IC HEF4051B - CHIP		
85	U100	IC PIC6C73 - CHIP		
86	U1	IC NJM2360 OR KA34063 - CHIP		

No	DESIGN LOC	DESCRIPTIONS	SEC. CODE	REMARKS
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	RESISTOR	CH 2012 330 ohm-J 5%		
2	RESISTOR	CH 2012 2.2K-J 5%		
3	RESISTOR	CH 2012 1K-J 5%		
4	CONNECTOR WAFER	13 PIN 2mm PITCH ANGLE		
5	CONNECTOR WAFER	15 PIN 2mm PITCH ANGLE		
6	PHOTO INT.	SG215 - DIP		
7	THERMOSTOR	C103JF4C (10K 1%)		
8	LED (LED TACK)	KARG138 (5 , 3 COLOR)		
9	COILD CORD CABLE	13 PIN 2mm PITCH ANGLE		
10	DATA CABLE	15 PIN 2mm PITCH ANGLE		
11	P.C.B	SUB PCB SCH-811		

8-4 Travel charger

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	D62Z0V300RA65		
		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	MCR18EZHJ6R2		
30	R14, 15, 16	CHIP RESI	MCR18EZHJ1R0		
31	JP1, 2, 3	CHIP RESI	MCR18EZHJ0R0		
			CR180R0JM		

	DESIGN LOC	DESCRIPTIONS		SEC. CODE	REMARKS
32	R66, 67	CHIP RESI	MCR18EZJ511		
			CR18511JM		
33	JP4, 5	CHIP RESI	MCR10EZJORO		
34	R57	CHIP RESI	MCR10EZHF1501		
			CR10150FM		
35	R58	CHIP RESI	MCR10EZHF2201		
			CR102201FM		
36	R17	CHIP RESI	MCR10EZJ470		
			CR10470JM		
37	R1	CHIP RESI	MCR18EZJ103		
			CR18103JM		
38	R59	CHIP RESI	MCR10EZJ102		
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				
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 CLA Parts List

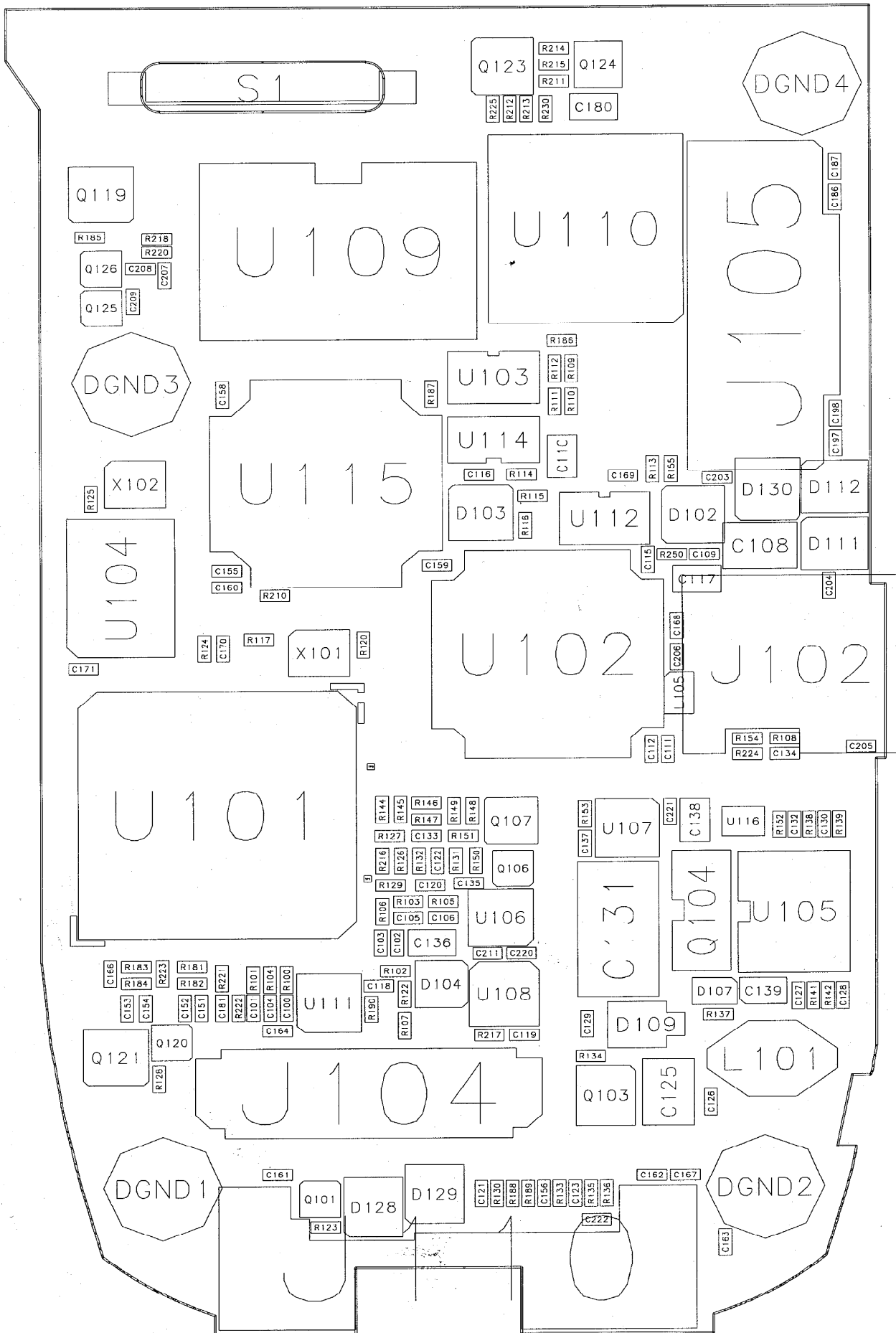
No	Design LOC	DESCRIPTIONS	SEC CODE	REMARKS
		MAIN SMD ASS'Y		
1	C6, C9	CERAMIC CAPACITOR CL21B04JBNCS/0.1U		
2	C3	CERAMIC CAPACITOR CL21B103JBNCS/0.01U		
3	C5, C10	CERAMIC CAPACITOR CL21B224JBNCS/0.22U		
4	D7	CHIP DIODE KDS181		
5	D5, D6	CHIP DIODE KDS184		
6	R21	CHIP RESISTOR RC1608J102CS/1K OHM		
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 105°C		
29	C2, C4	ELECT CAPACITOR CESSL1C331MAAT/330U16V 105°C		
30	C1	ELECT CAPACITOR CESSX1V101MAAT/100U35V 105°C		
31	F1	FUSE 250V/2A		
32	U1	ADJUST REGULATOR I.C. LM2576T-ADJ		
33	U2	O.P AMP KA358D		
34	U3	O.P AMP(14P) KA324D		
35	LED 1, 2	DUALL COLOR LED LAMP SAM3270		
36	R4	CARBON FILM RESISTOR 0.5 OHM 11/2W		
37	R2	CARBON FILM RESISTOR 11K OHM 1/4W		

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

9. PCB Diagrams

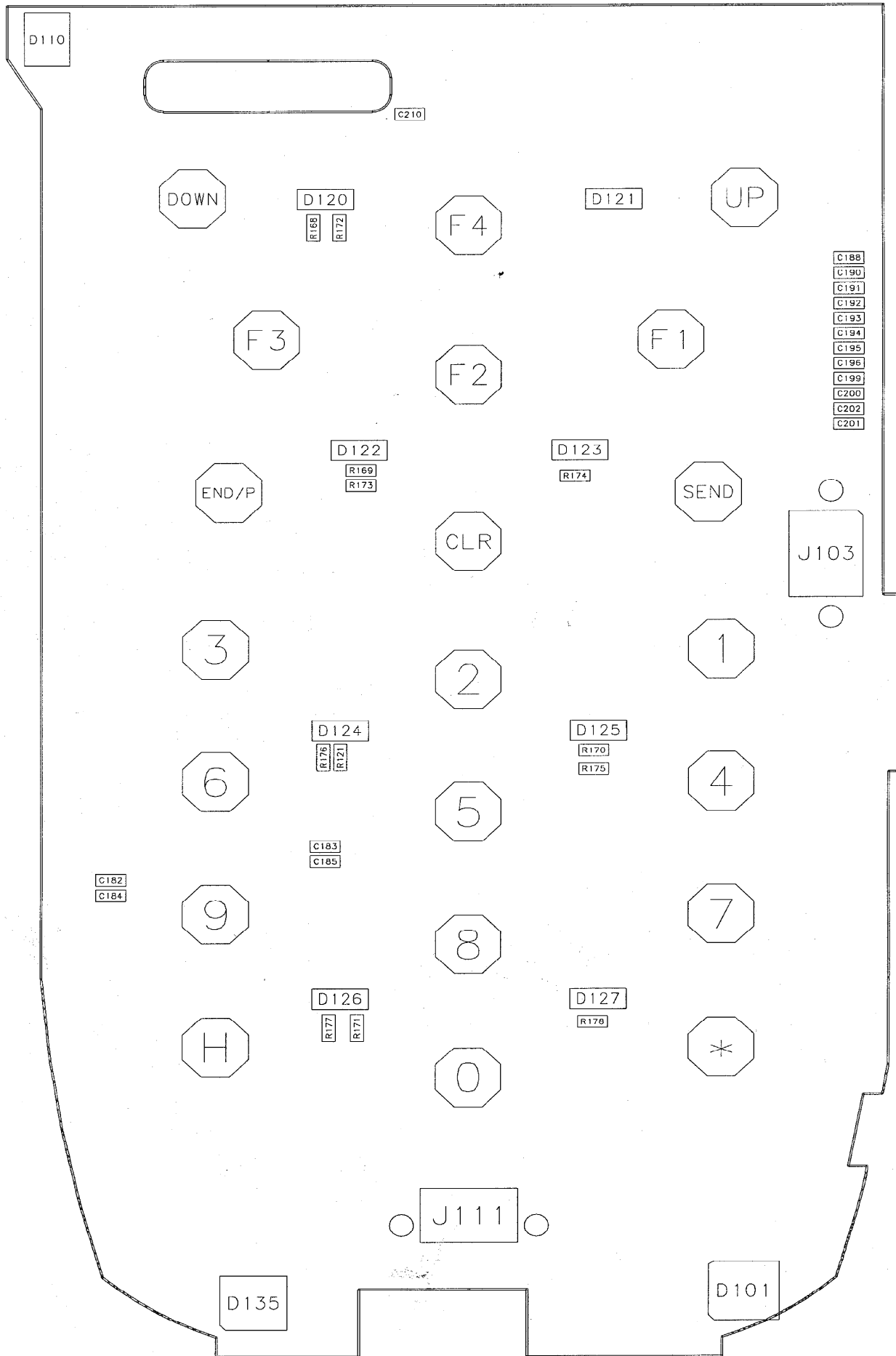
9-1 Cellular Phone

9-1-1 Main PCB - LOGIC B'D



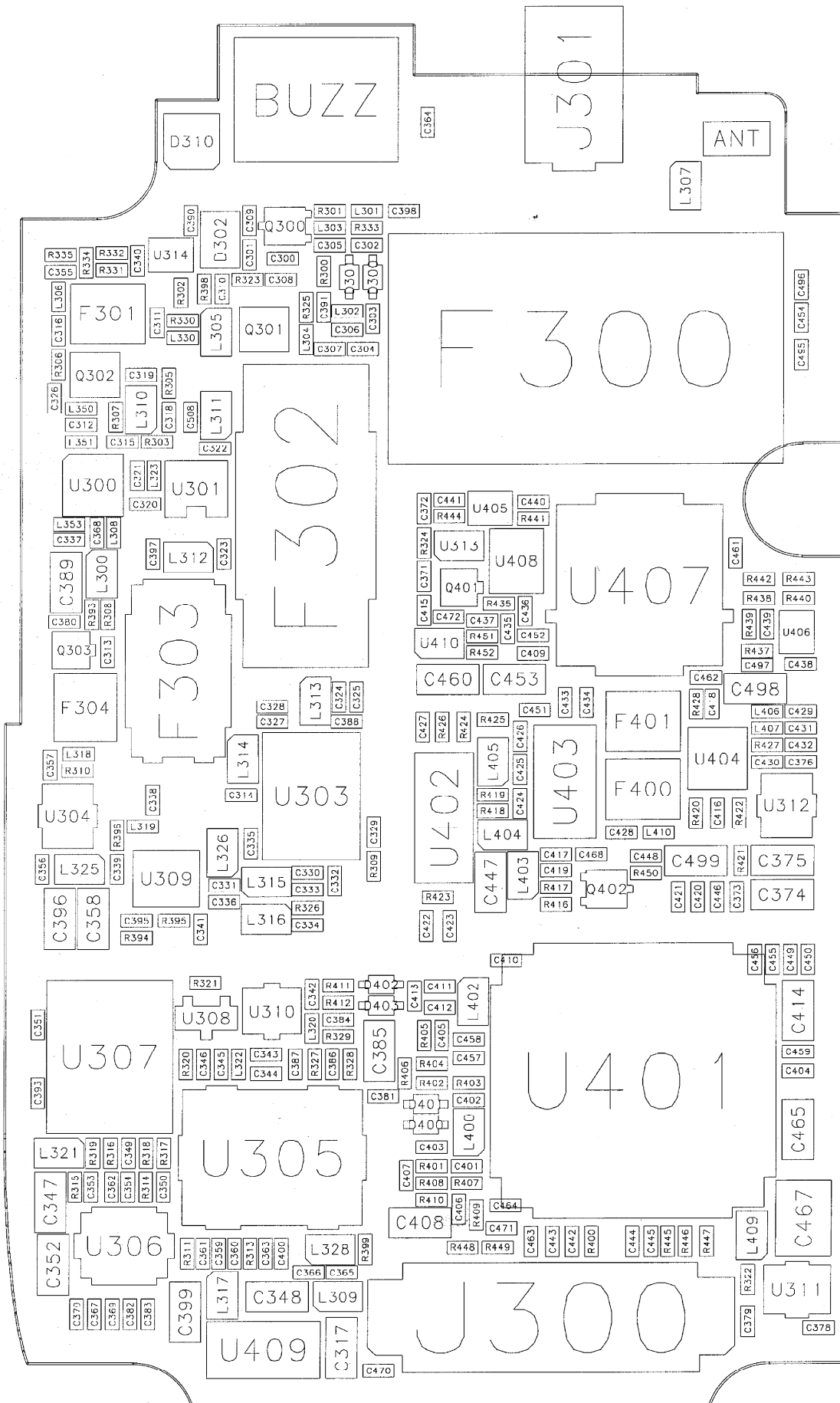
9-1 Cellular Phone

9-1-2 Main PCB - LOGIC B'D

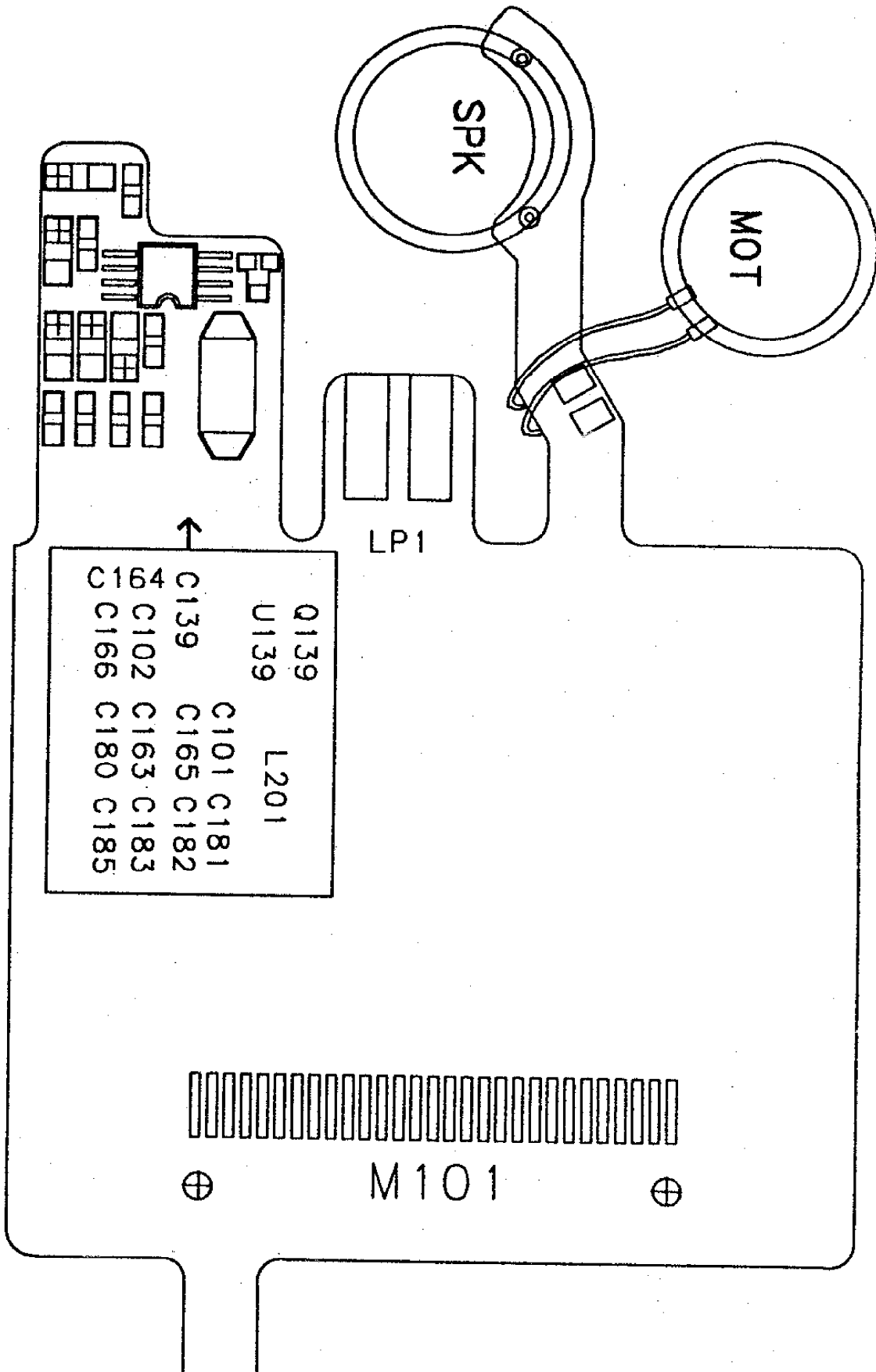


9-1 Cellular Phone

9-1-3 Main PCB - RF B'D

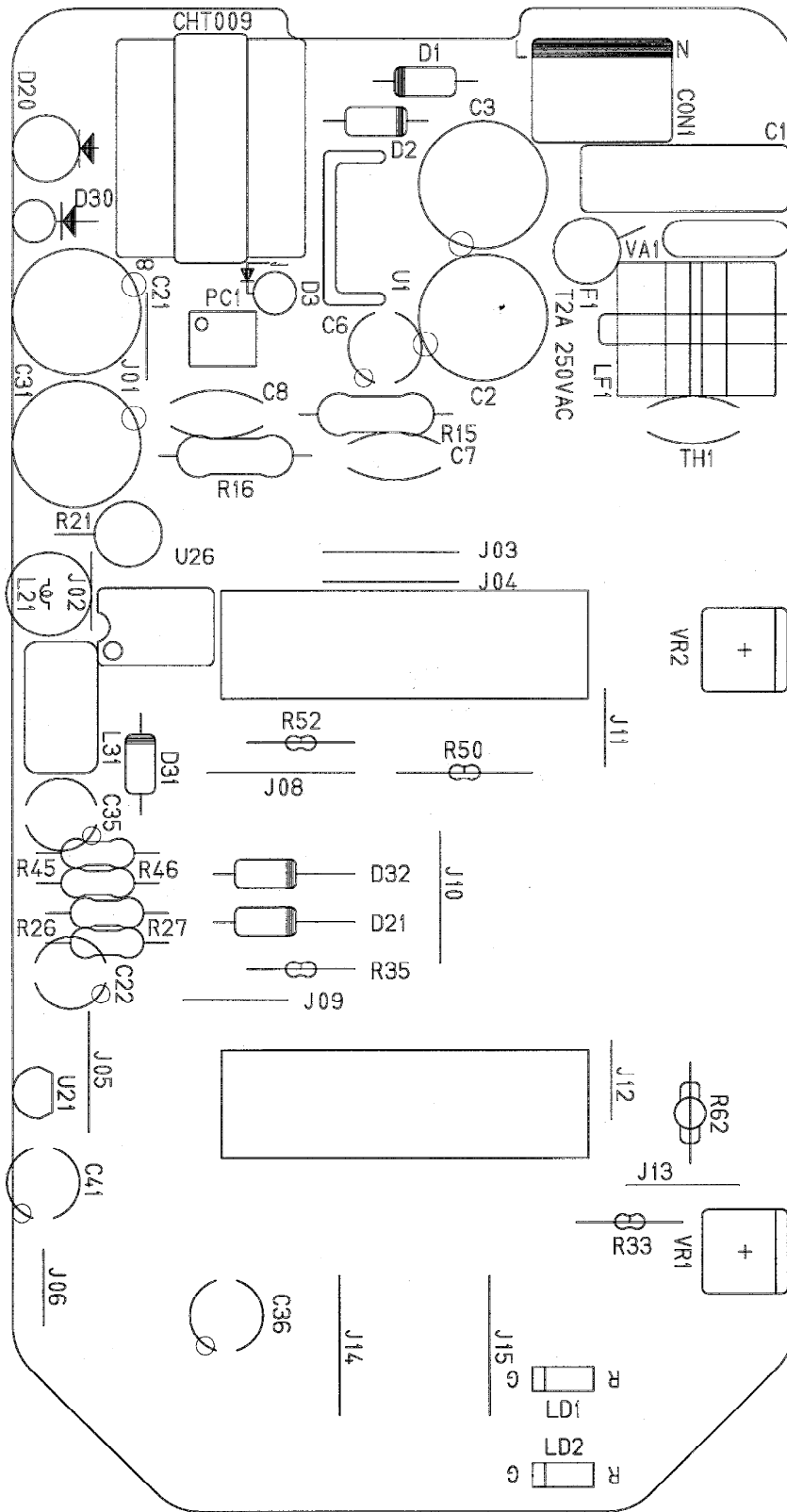


9-1-4 LCD FPC

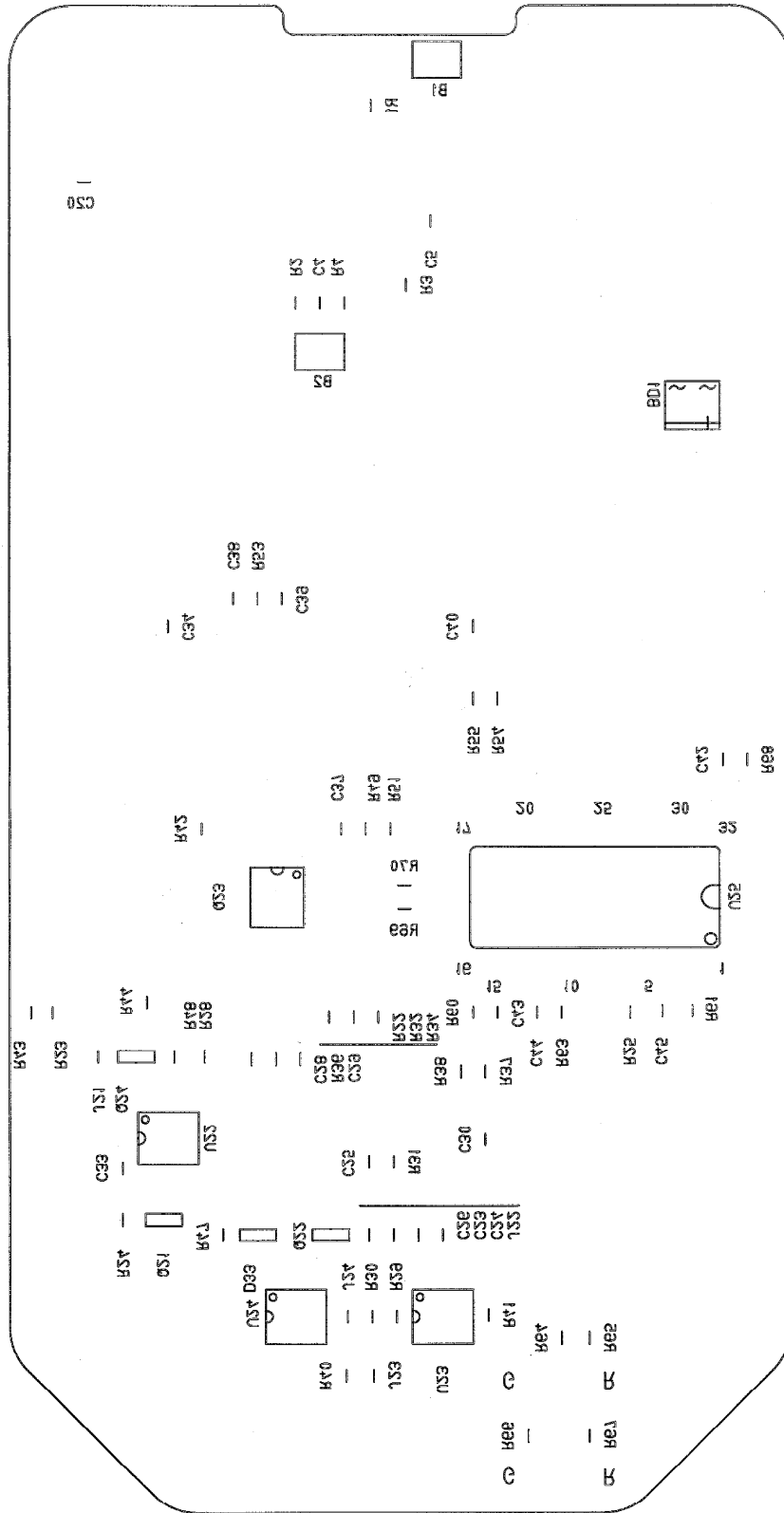


9-2 Desk-Top rapid Charger PCB

Top View

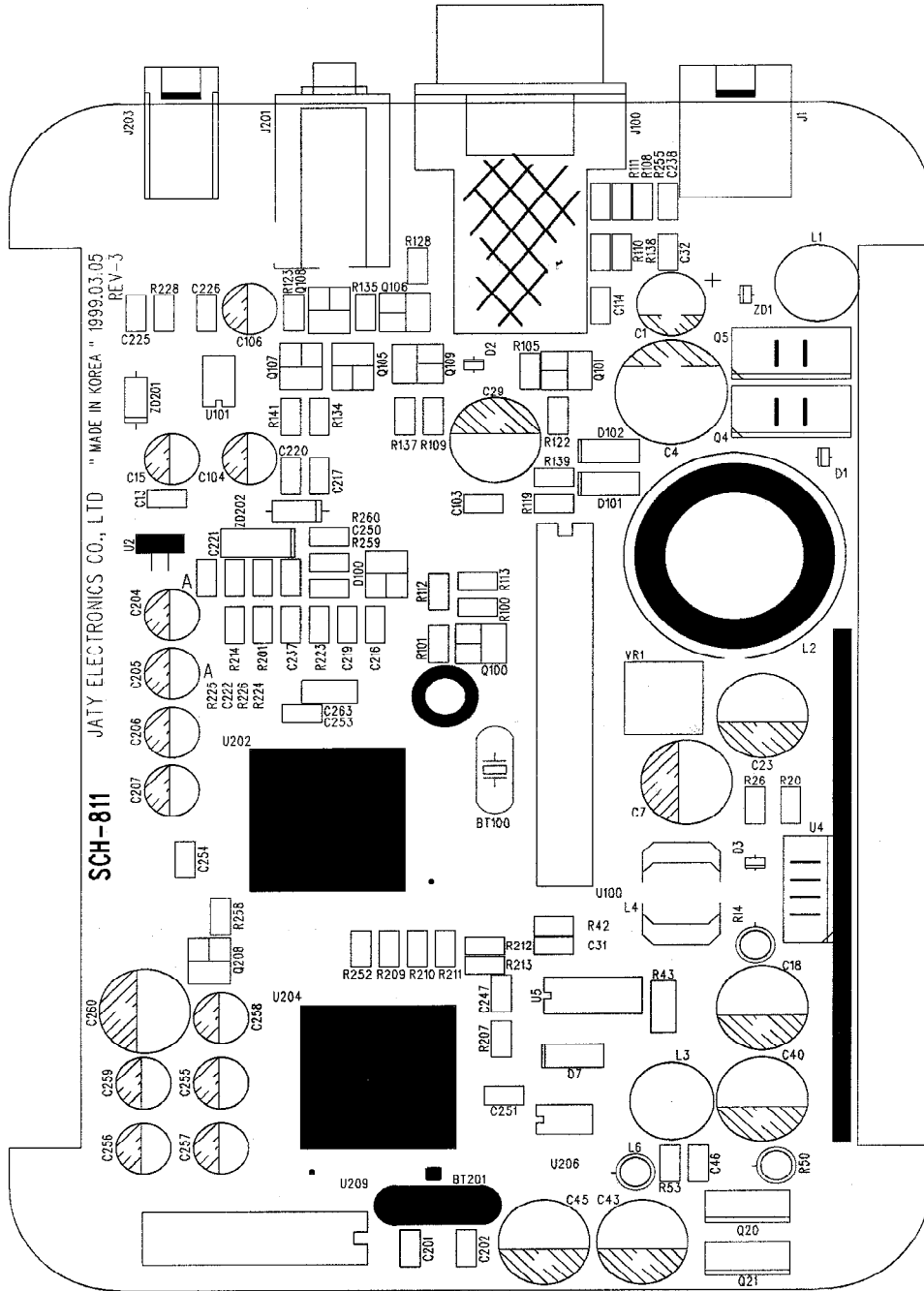


Bottom View



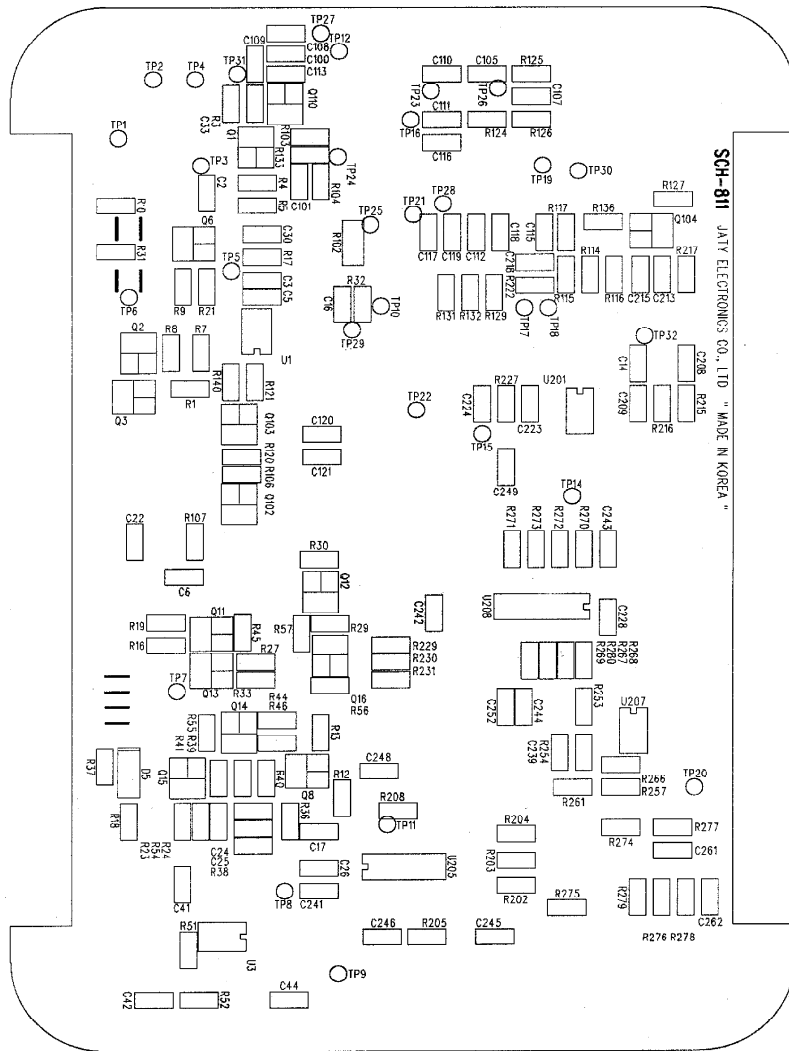
9-3 Hands-Free kit 1 PCB

Top View



- TOP SIDE SILK SCREEN -

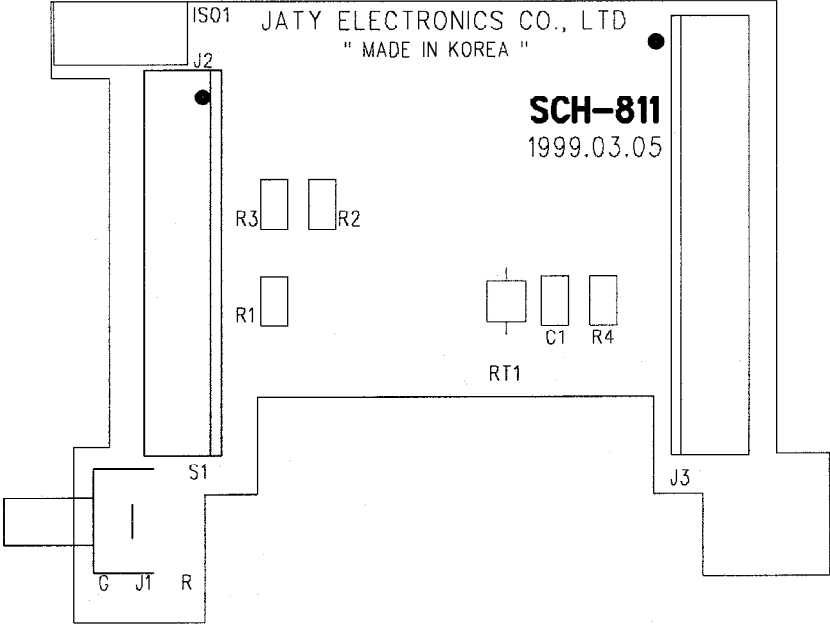
Bottom View



SCH-811 JATE ELECTRONICS CO., LTD. "MADE IN KOREA"

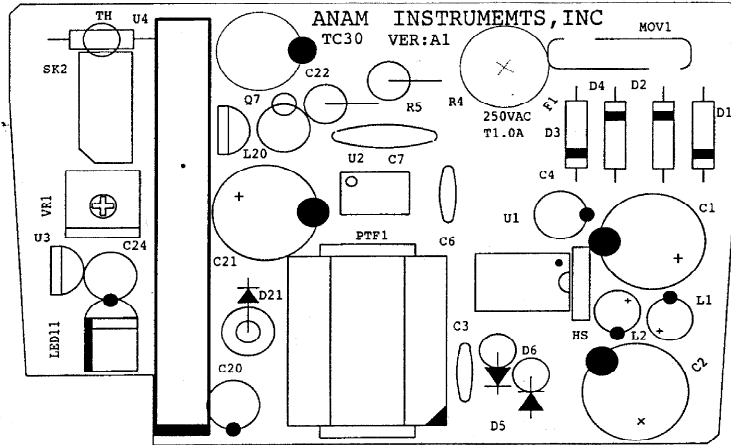
- BOTTOM SIDE SILK SCREEN -

Top View

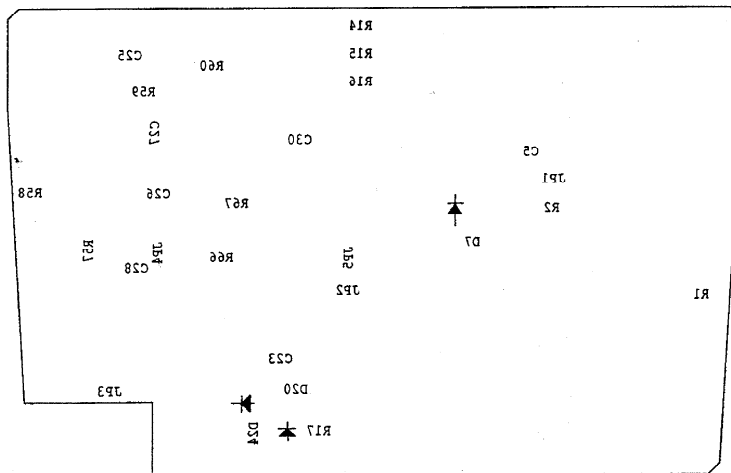


- TOP SIDE SILK SCREEN -

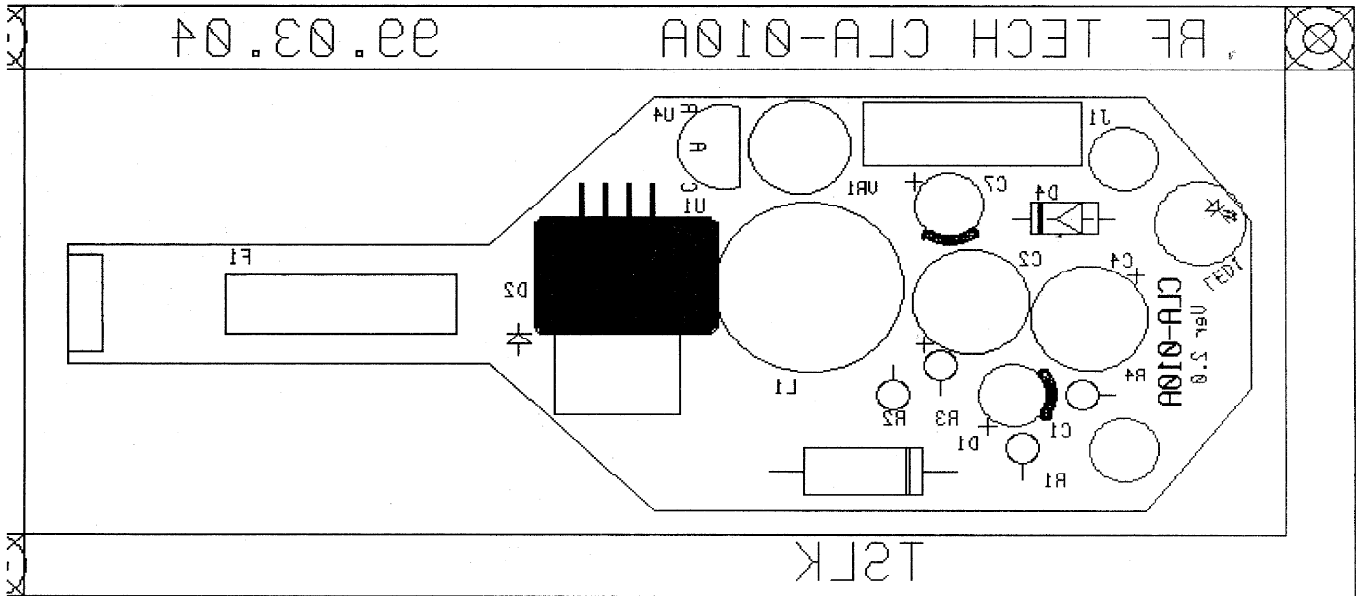
Top View



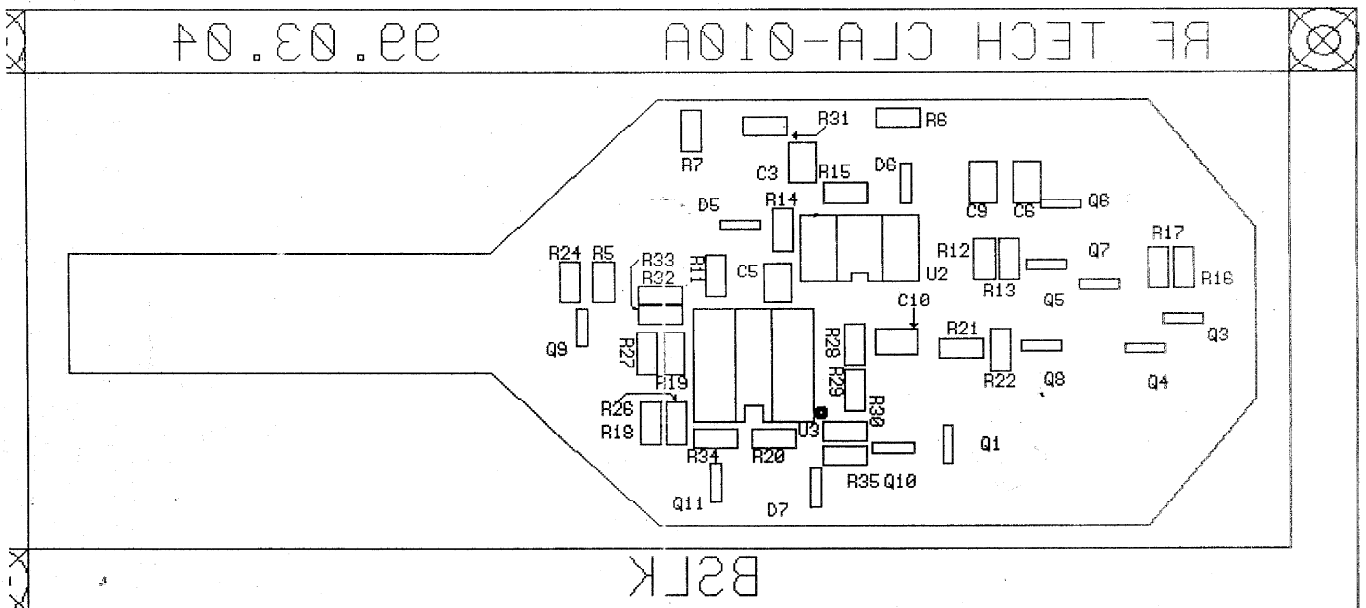
Bottom View



Top View

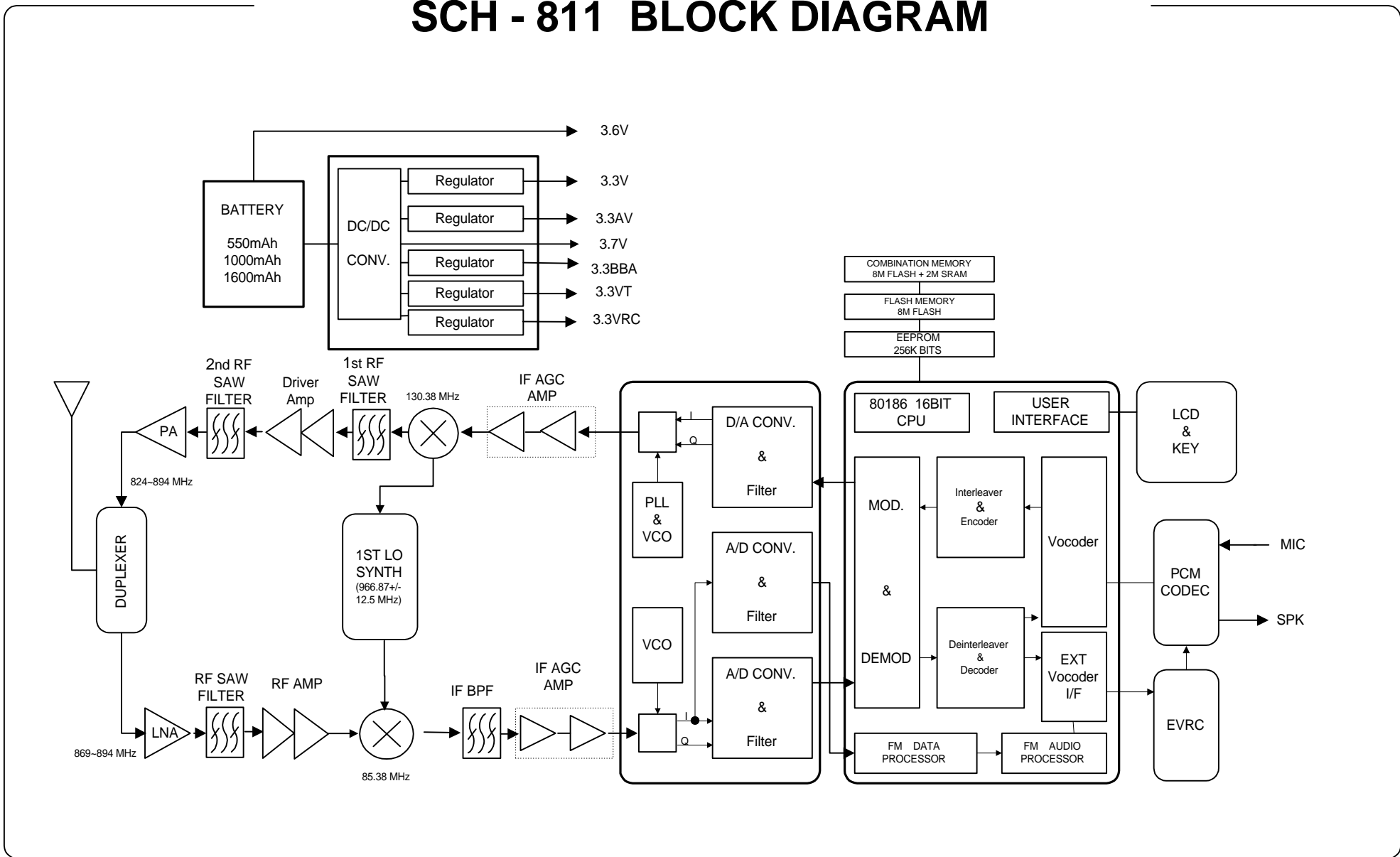


Bottom View

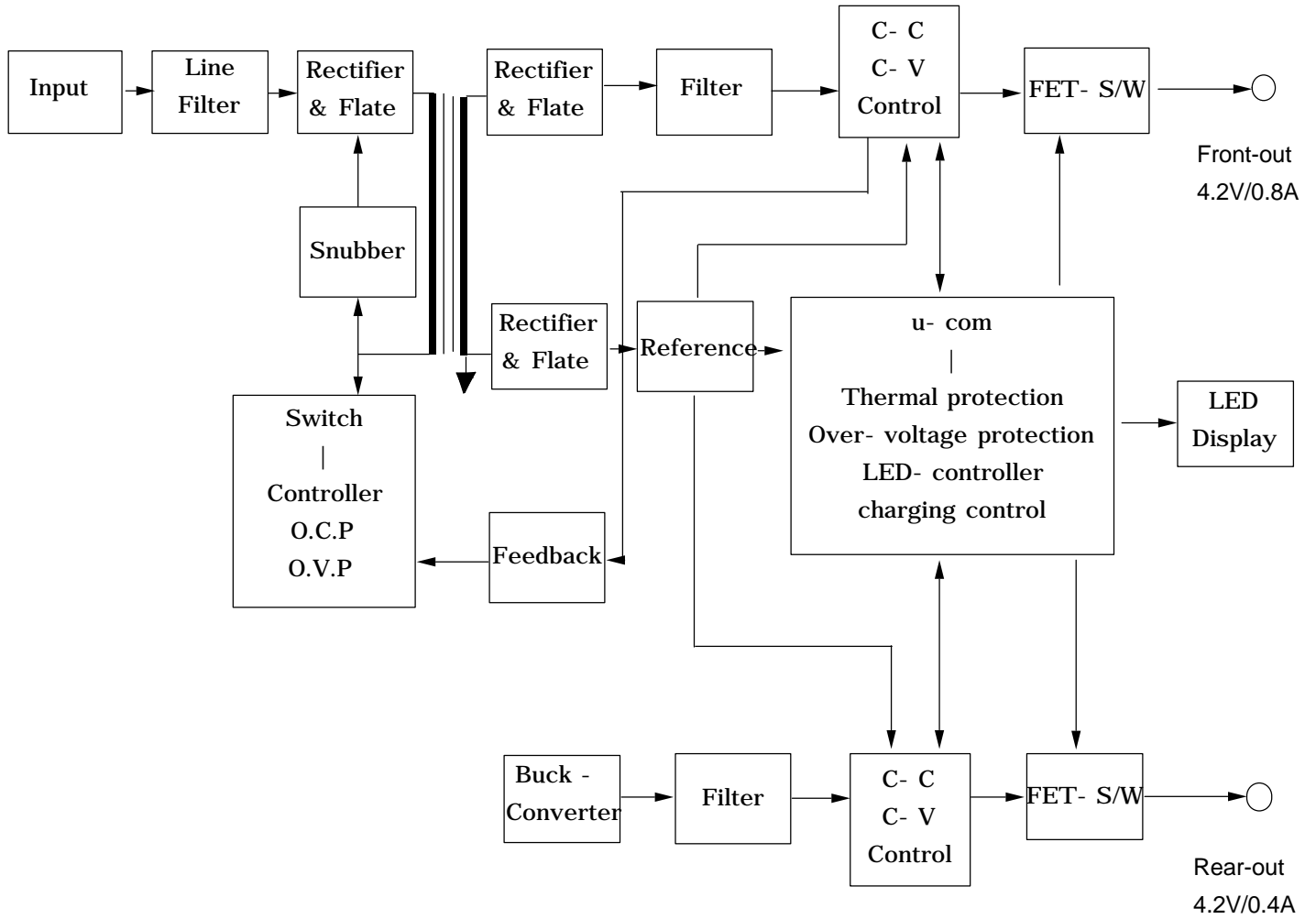


10-1 Main Block Diagram

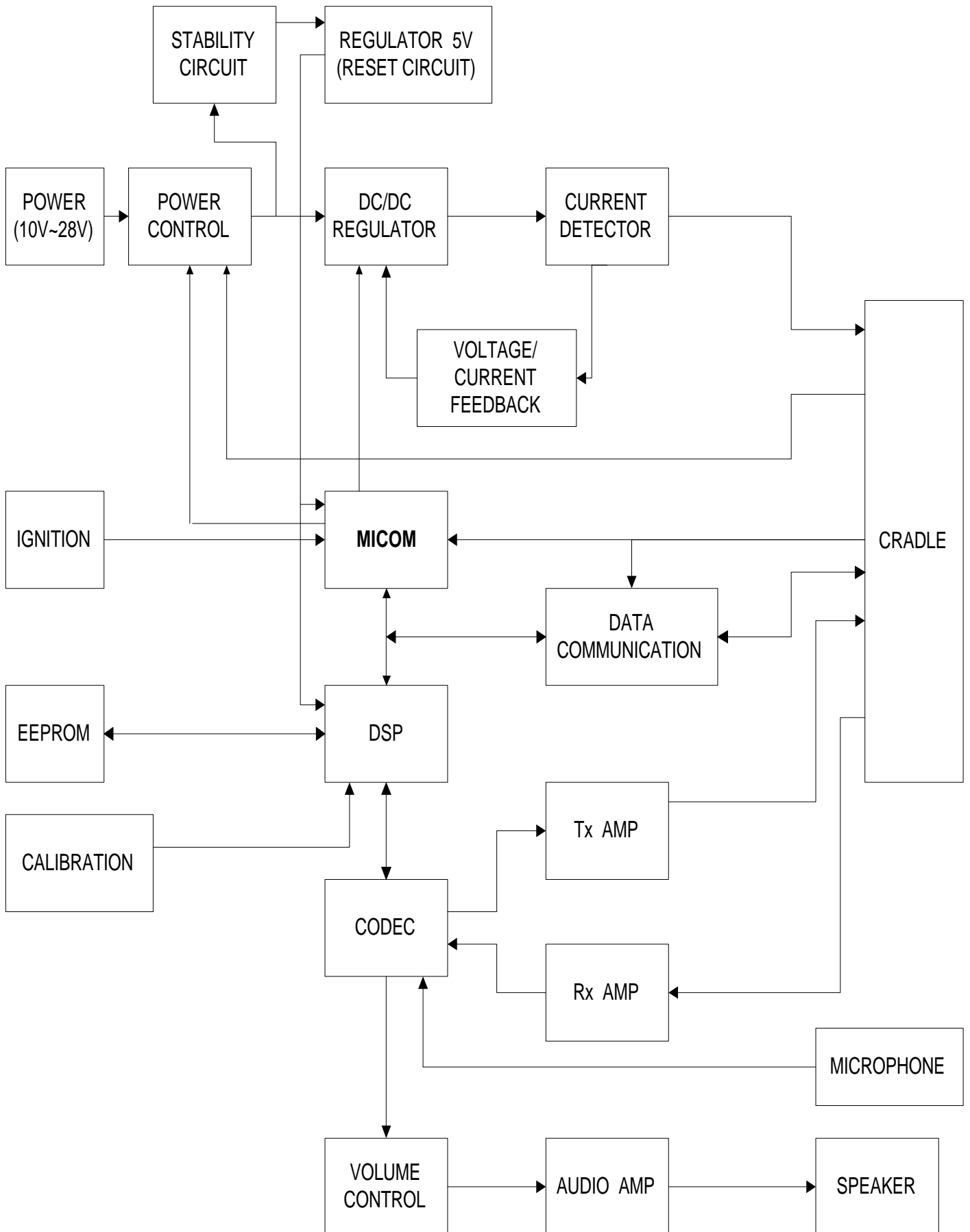
SCH - 811 BLOCK DIAGRAM



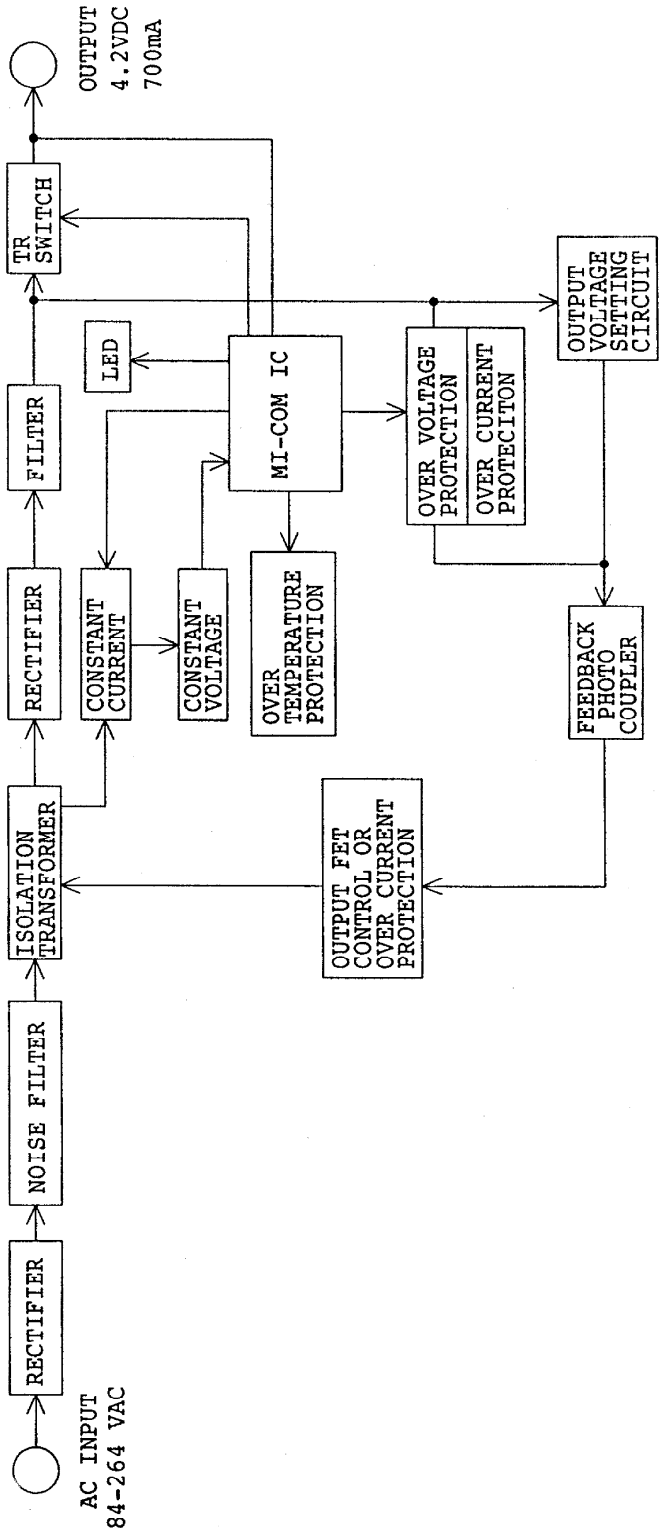
10-2 Desk-Top rapid Charger Block Diagram

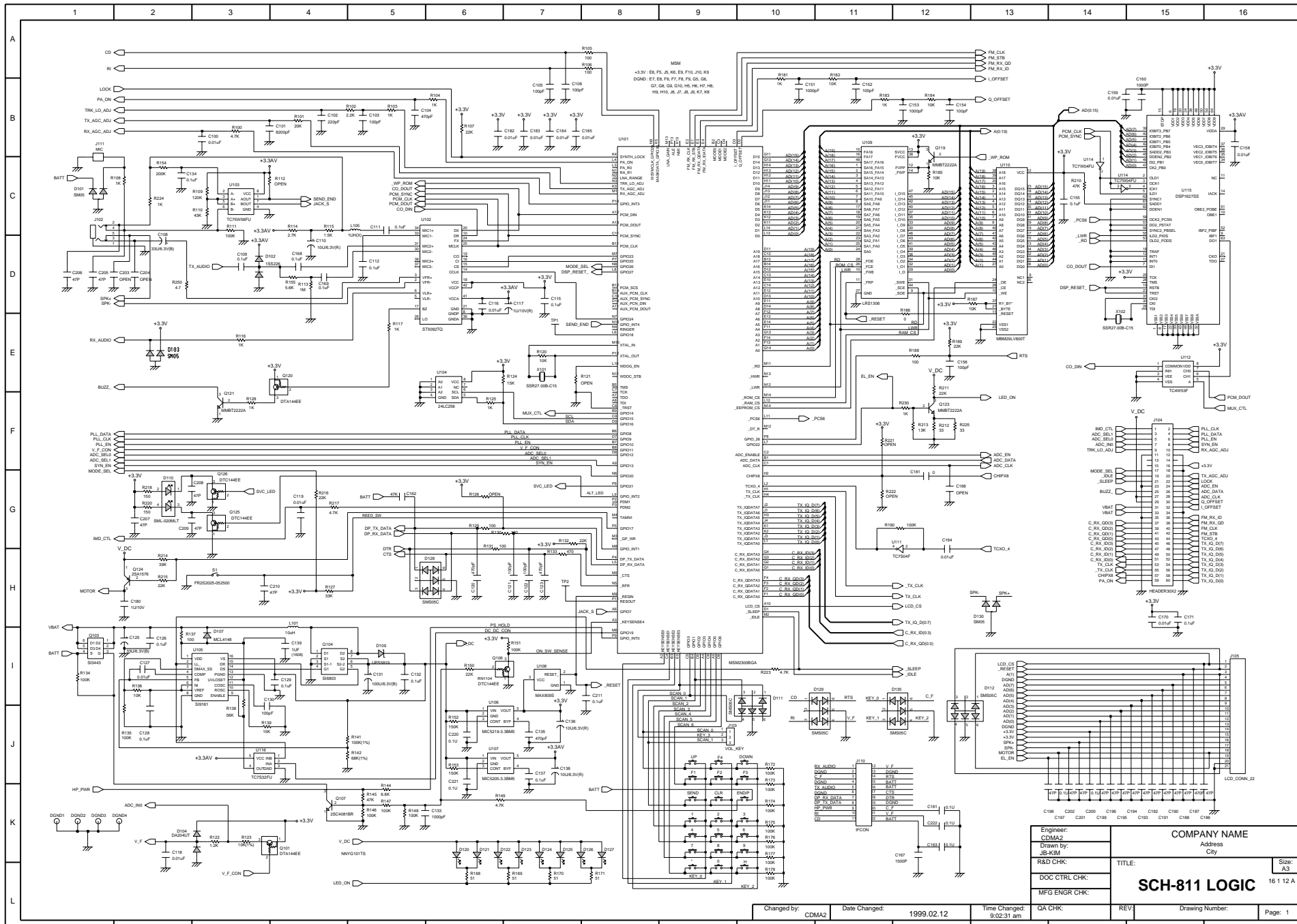


10-3 Hands-Free kit 1 Block Diagram



10-4 Travel Charger Block Diagram





Engineer: CDMA2
 Drawn by: JB-KIM
 R&D-KIM
 DOC CTRL CHK:
 MFG ENGR CHK:

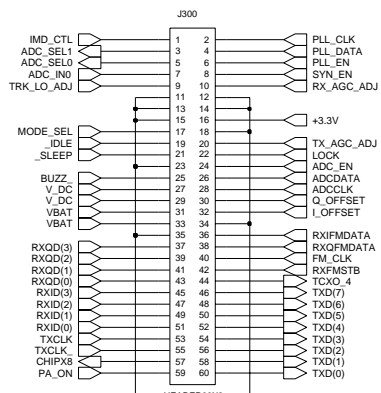
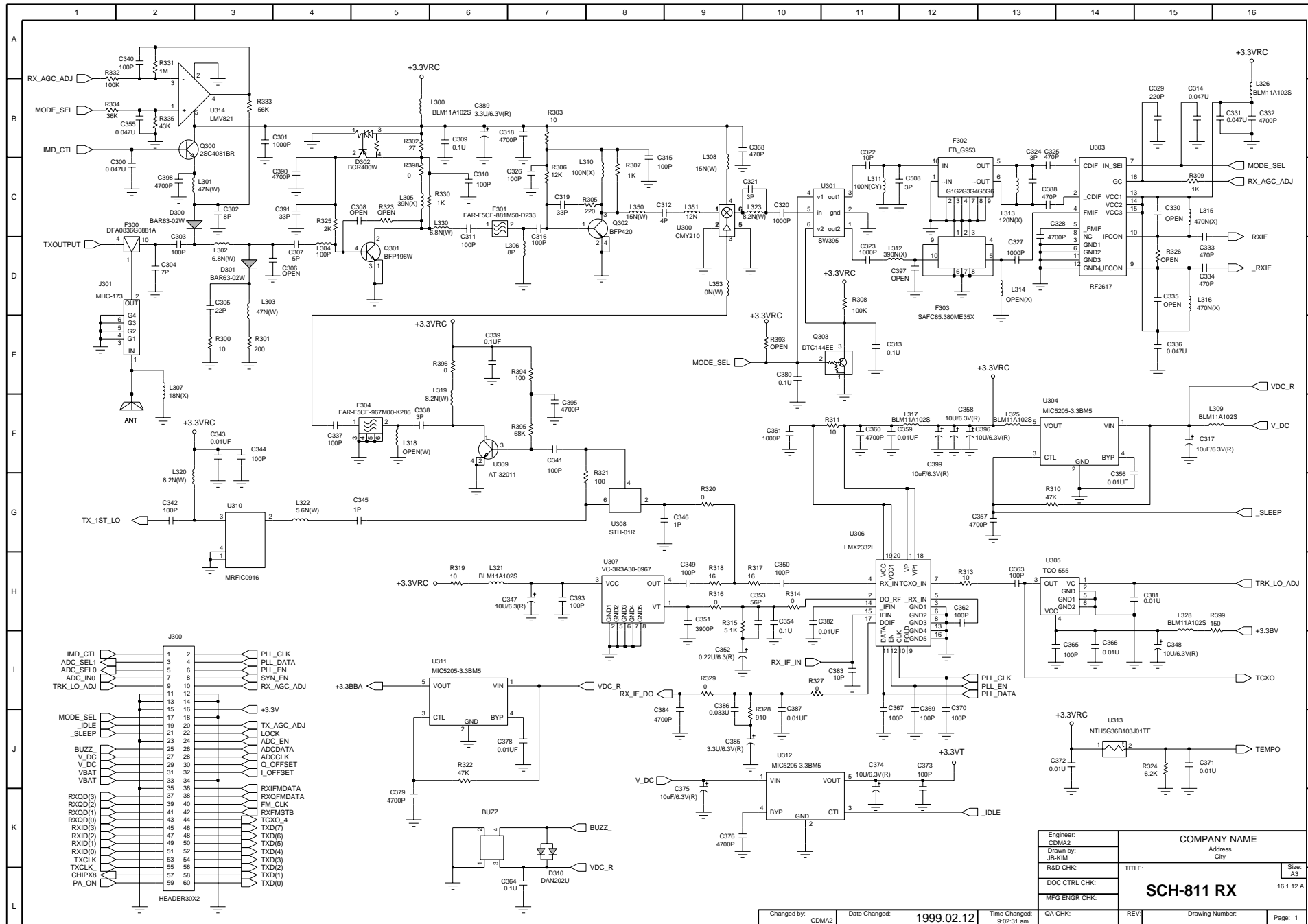
COMPANY NAME
 Address
 City

SCH-811 LOGIC

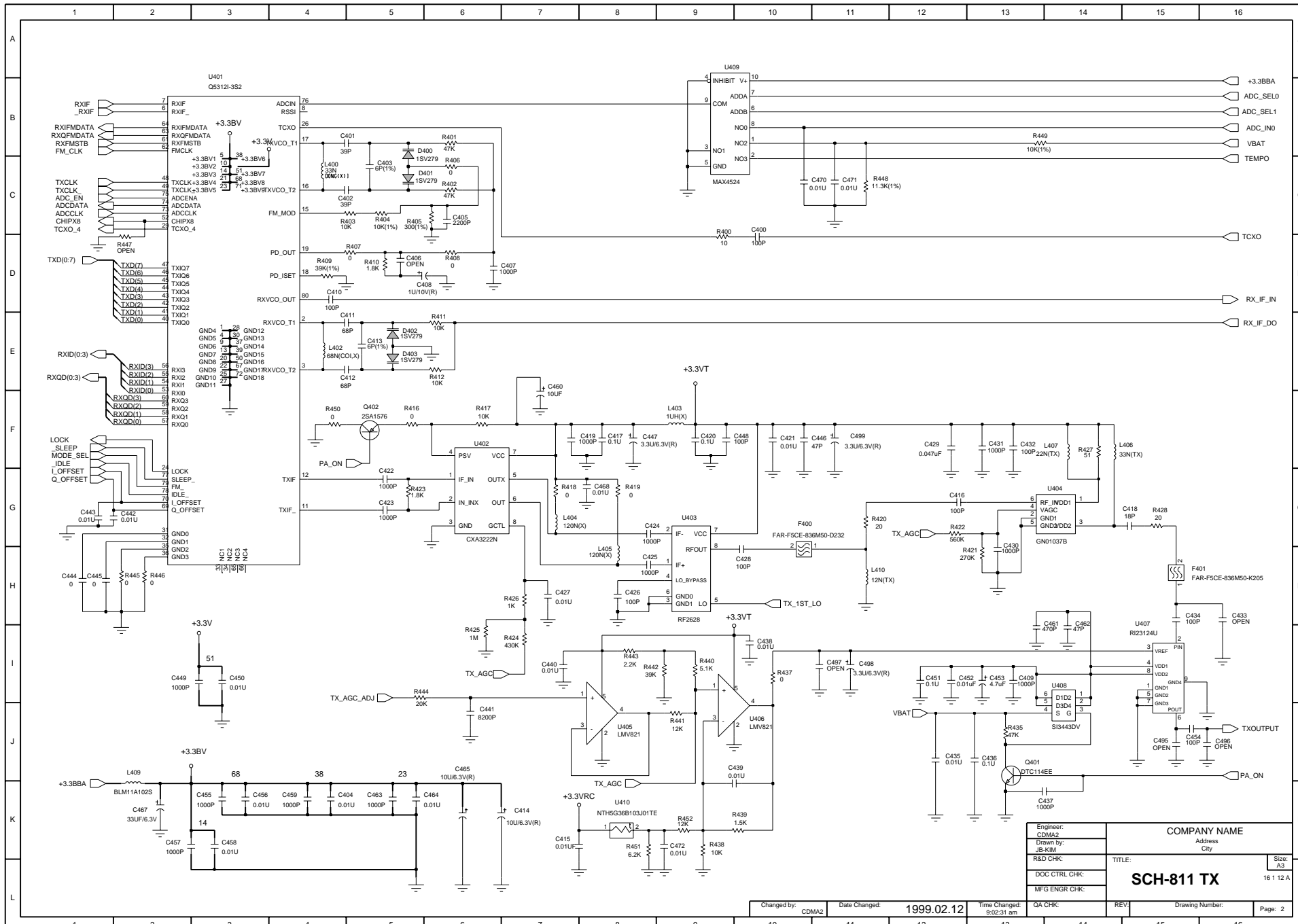
TITLE:
 REV. Drawing Number:

Size: 11.2 x 12.1 A

Changed by: CDMA2 Date Changed: 1999.02.12 Time Changed: 9:02:31 am
 GA CHK
 REV. Drawing Number: Page: 1

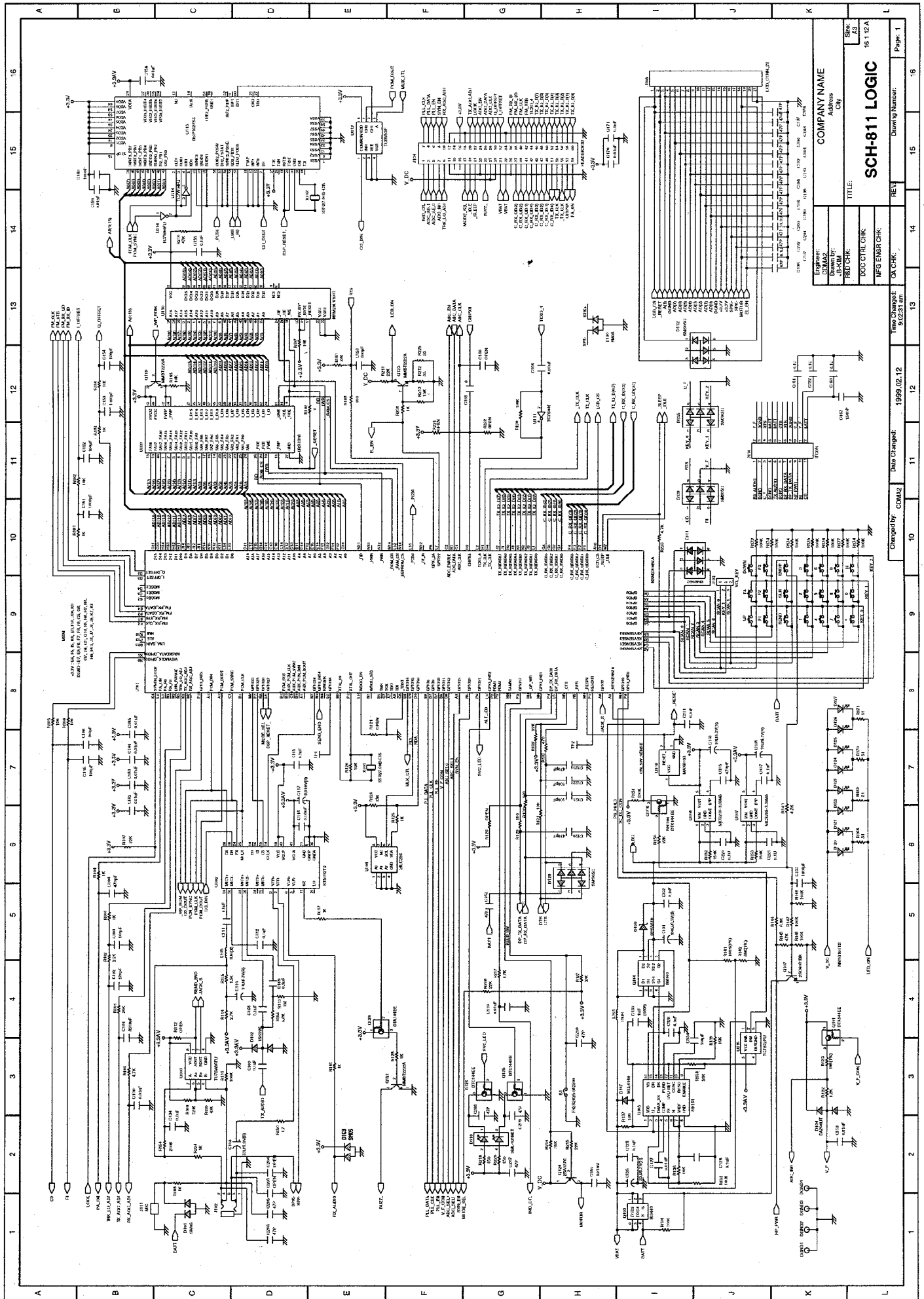


Engineer: CDMA2	COMPANY NAME		Size: A3
Drawn by: JB-KIM	Address		16.12 A
R&D CHK:	City		
DOC CTRL CHK:	TITLE:		
MFG ENGR CHK:	SCH-811 RX		
GA CHK:	REV:	Drawing Number:	Page: 1



Engineer: CDMA2	COMPANY NAME Address City	Size: A3
Drawn by: JB-KIM	TITLE: SCH-811 TX	16 1 12 A
R&D CHK:		
DOC CTRL CHK:		
MFG ENGR CHK:		
Changed by: CDMA2	Date Changed: 1999.02.12	Time Changed: 9:02:31 am
GA CHK:	REV:	Drawing Number:
		Page: 2

10-5 Main Circuit Diagram (1/3)



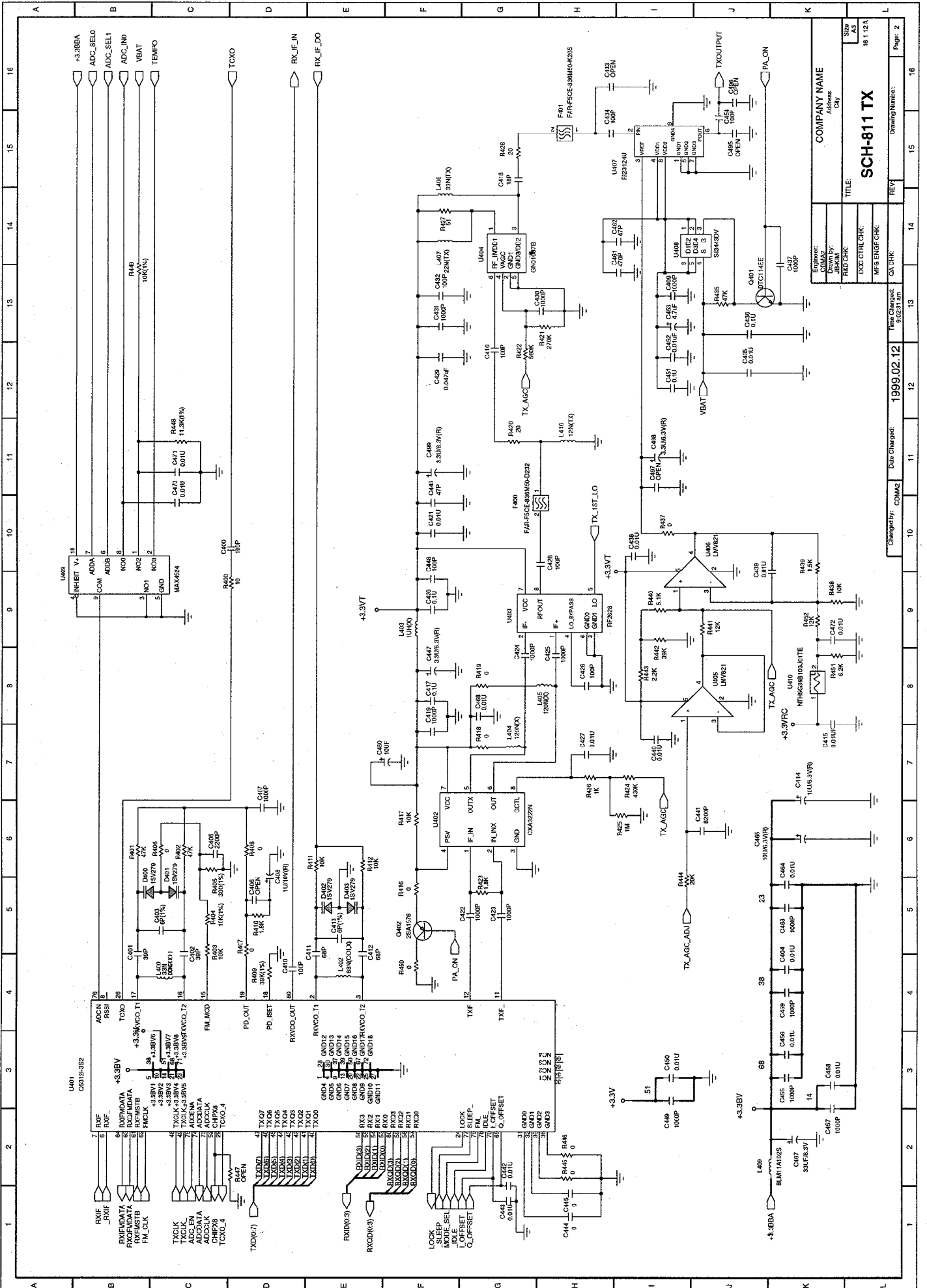
COMPANY NAME	ADAMS
ENGINEER	CDMA2
DESIGNED BY	JAWAN
RECHECK	DOC CHIR CHIR
MFG ENGR CHK	SA CHIR
DATE	1999.02.12
THIS CHANGE	9023.01.00
DRAWING NUMBER	16 1 12 A
PAGE	1

TITLE:

SCH-811 LOGIC

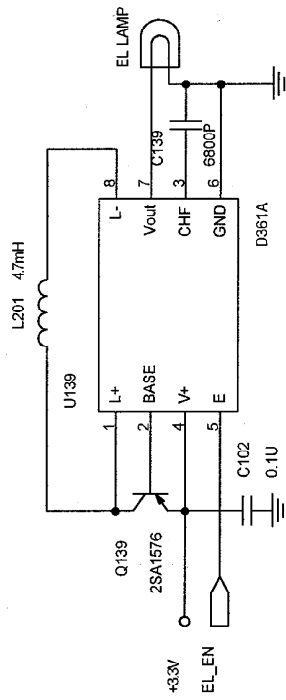
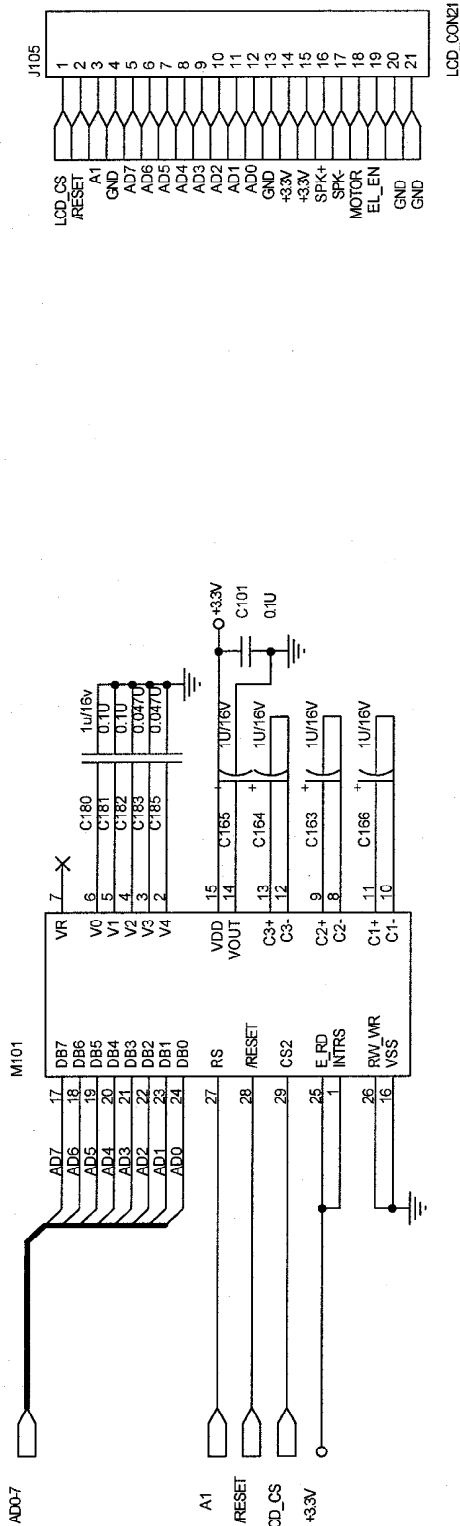
Changed by: CDMA2 Date Changed: 1999.02.12 This Change: 9023.01.00 Drawing Number: 16 1 12 A Page: 1

Main Circuit Diagram (3/3)



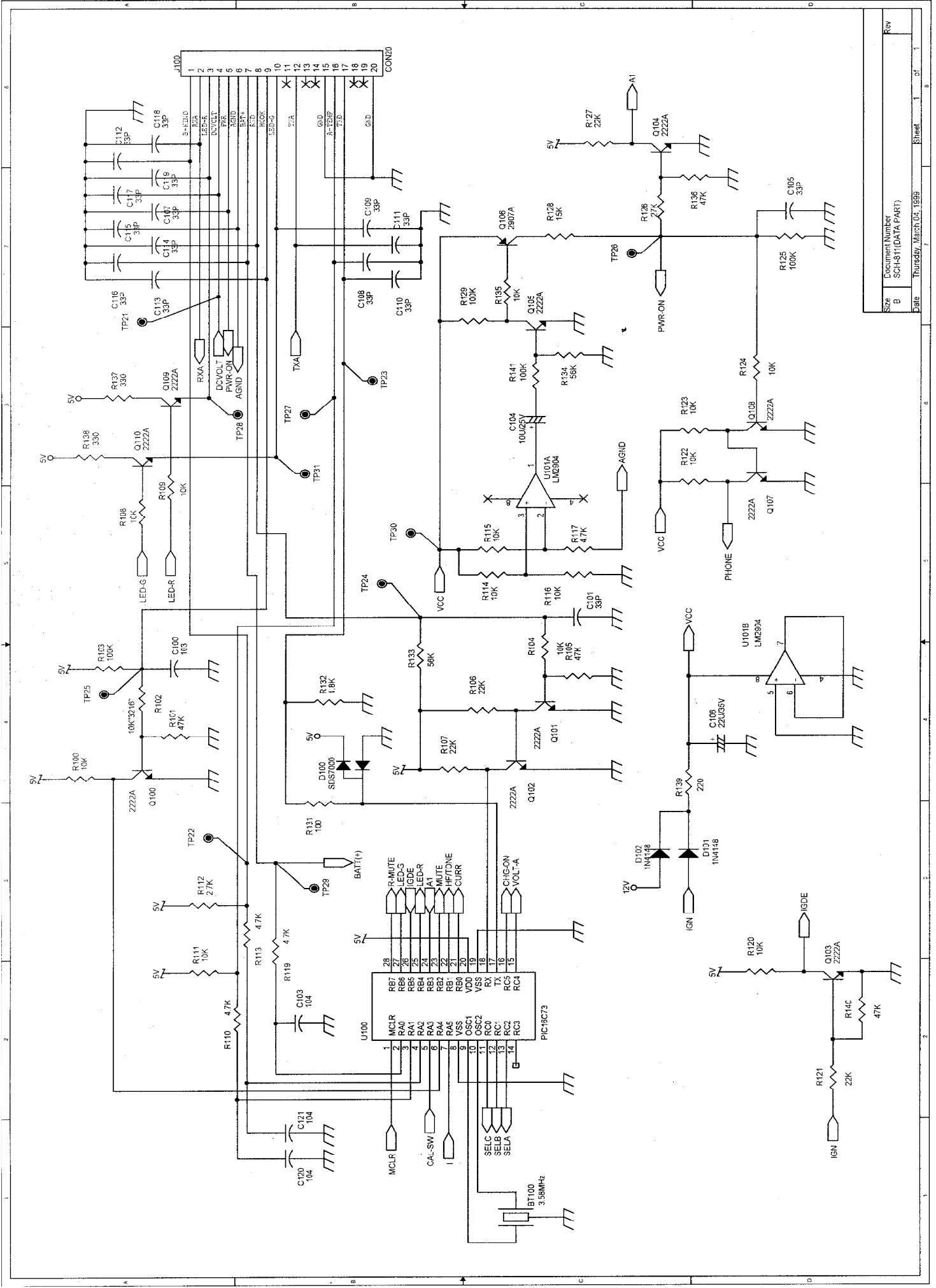
COMPANY NAME		REV: 1	
Address		Date Changed: 1999.02.12	
Title: SCH-811 TX		Time Changed: 05:23:00	
MFG ENGR CHK:		Drawing Number: 16	
DGC CTRL CHK:		Page: 2	
RAD CHK:		Size: A3	
Circuit: 10.12A			

LCD FPC Circuit Diagram



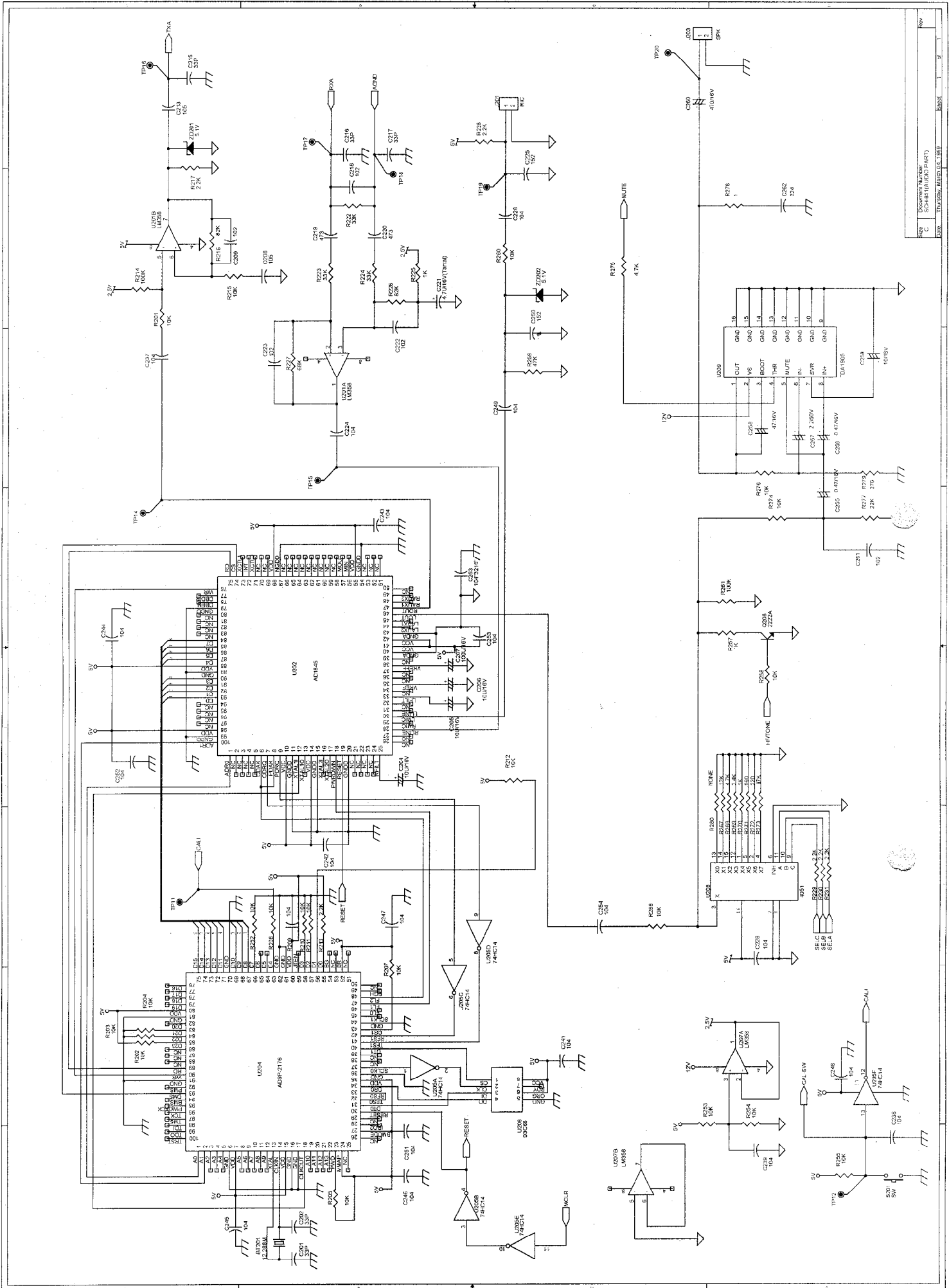
Title		SCH-800LCD FPC	
Size	A4	Document Number	
Rev	(Rev)ode	Sheet	1 of 1
Date:	Monday, November 21, 1995		

10-7 Hands-Free kit 1 Circuit Diagram (data)

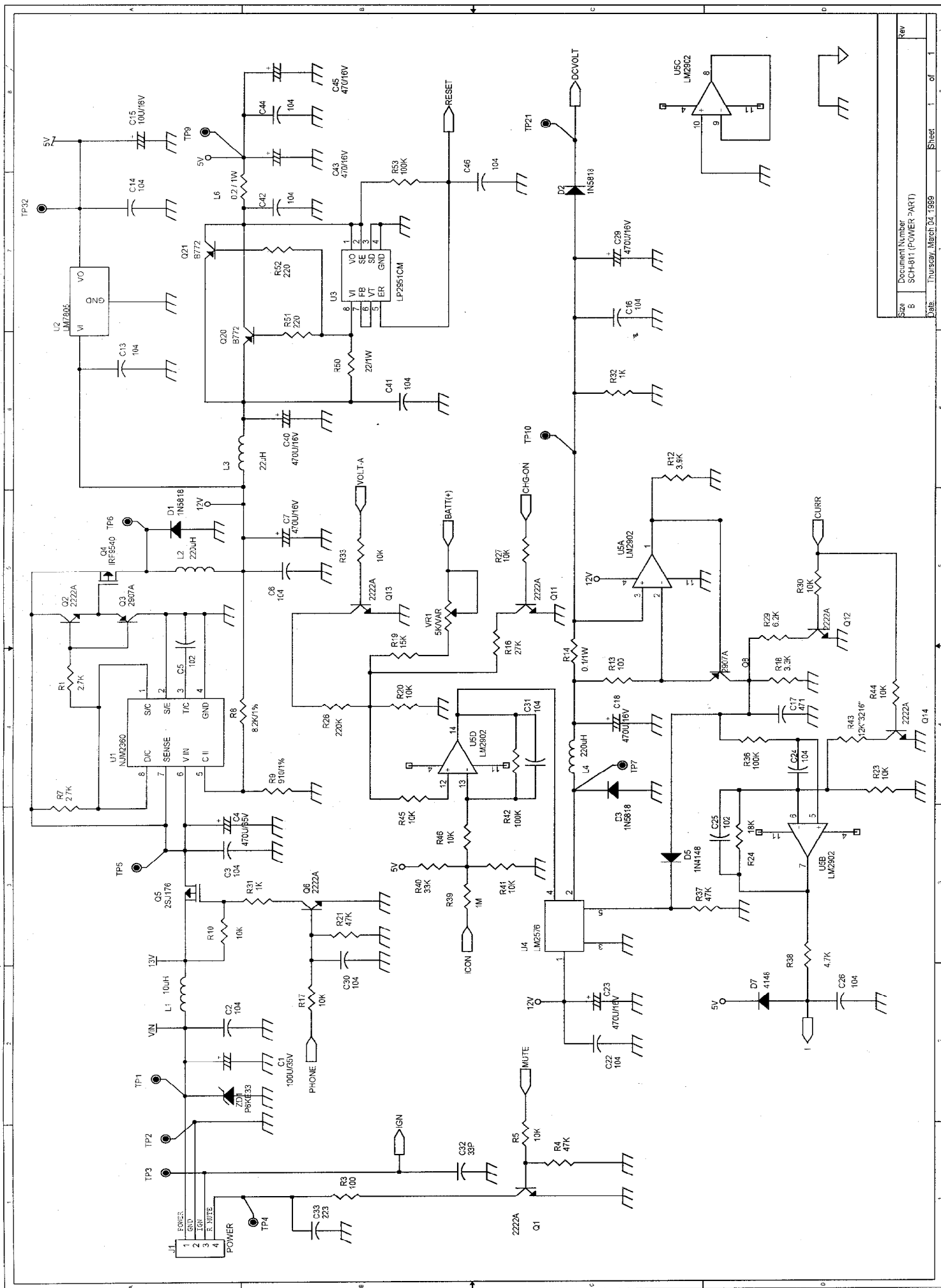


Size	B	Document Number	SCH-811(DATA PART)
Sheet	1	Date	Thursday, March 04, 1999
Rev			

Hands-Free kit 1 Circuit Diagram (audio)

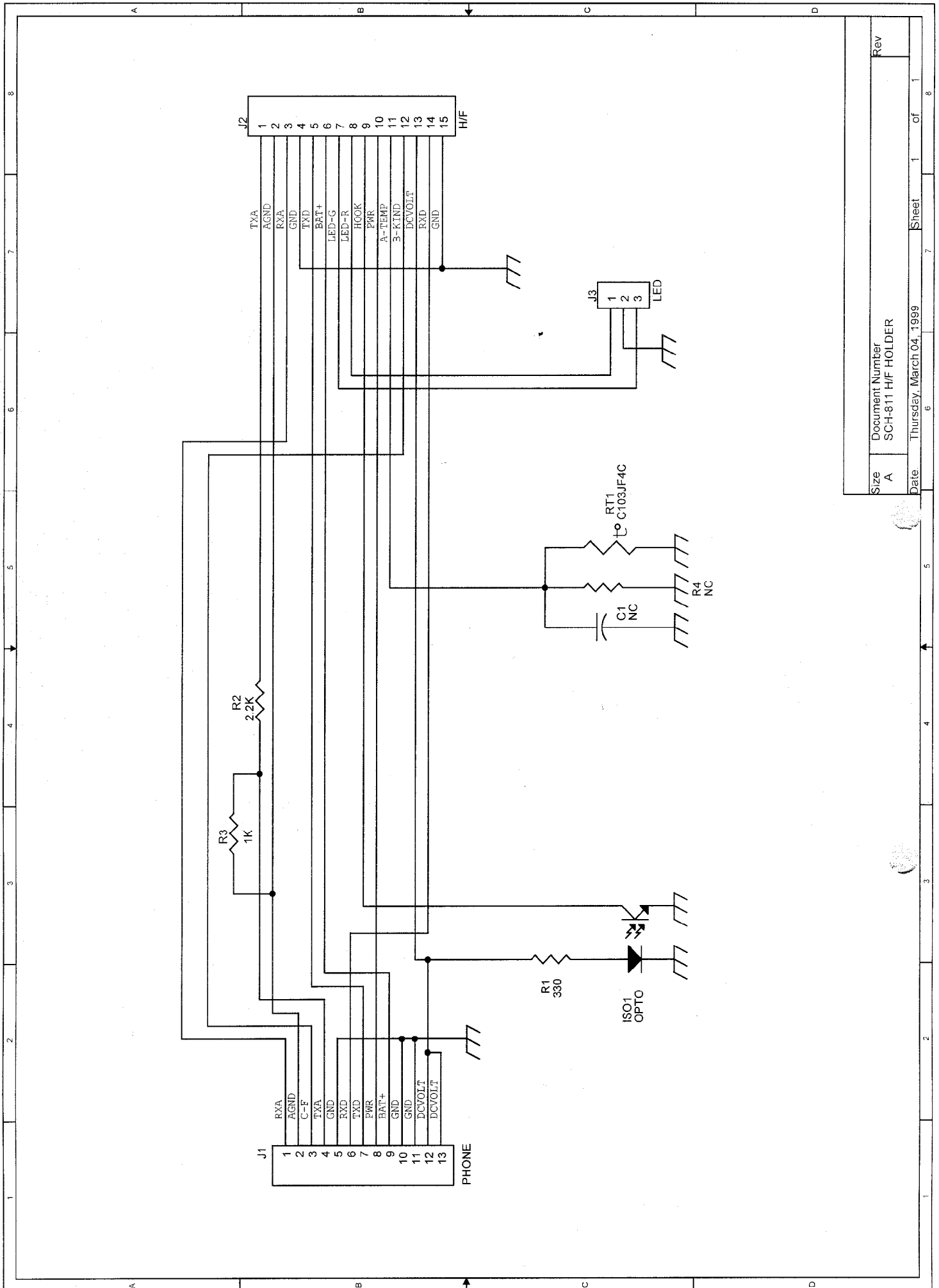


Car Adaptor 1 Circuit Diagram



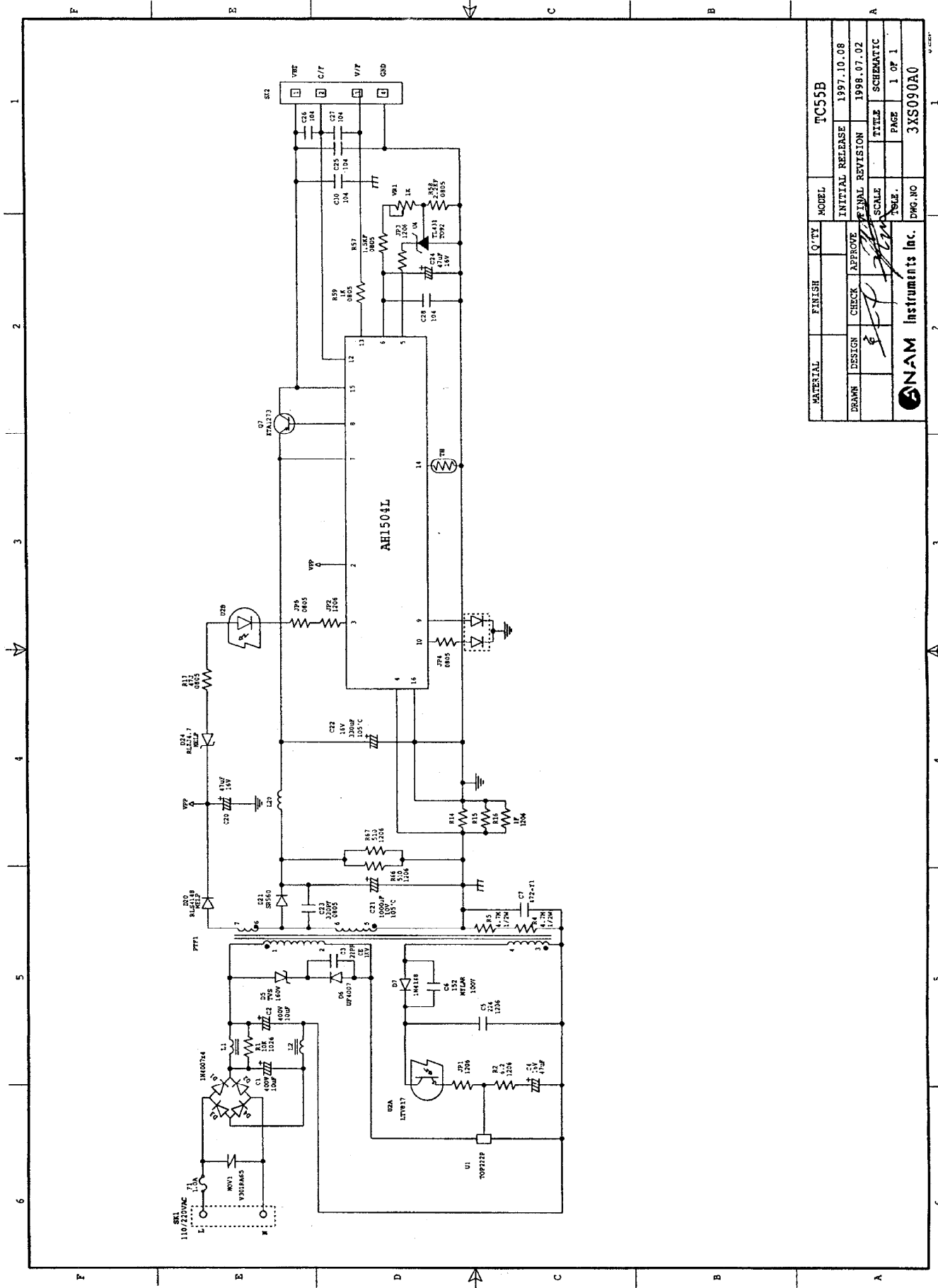
Size	Document Number	Rev
B	SCH-BIT (POWER PART)	1
Date	Thursday, March 04, 1999	Sheet 1 of 1

10-8 Cradle 1 Circuit Diagram



Size	Document Number	Rev
A	SCH-811 H/F HOLDER	
Date	Thursday, March 04, 1999	Sheet 1 of 8

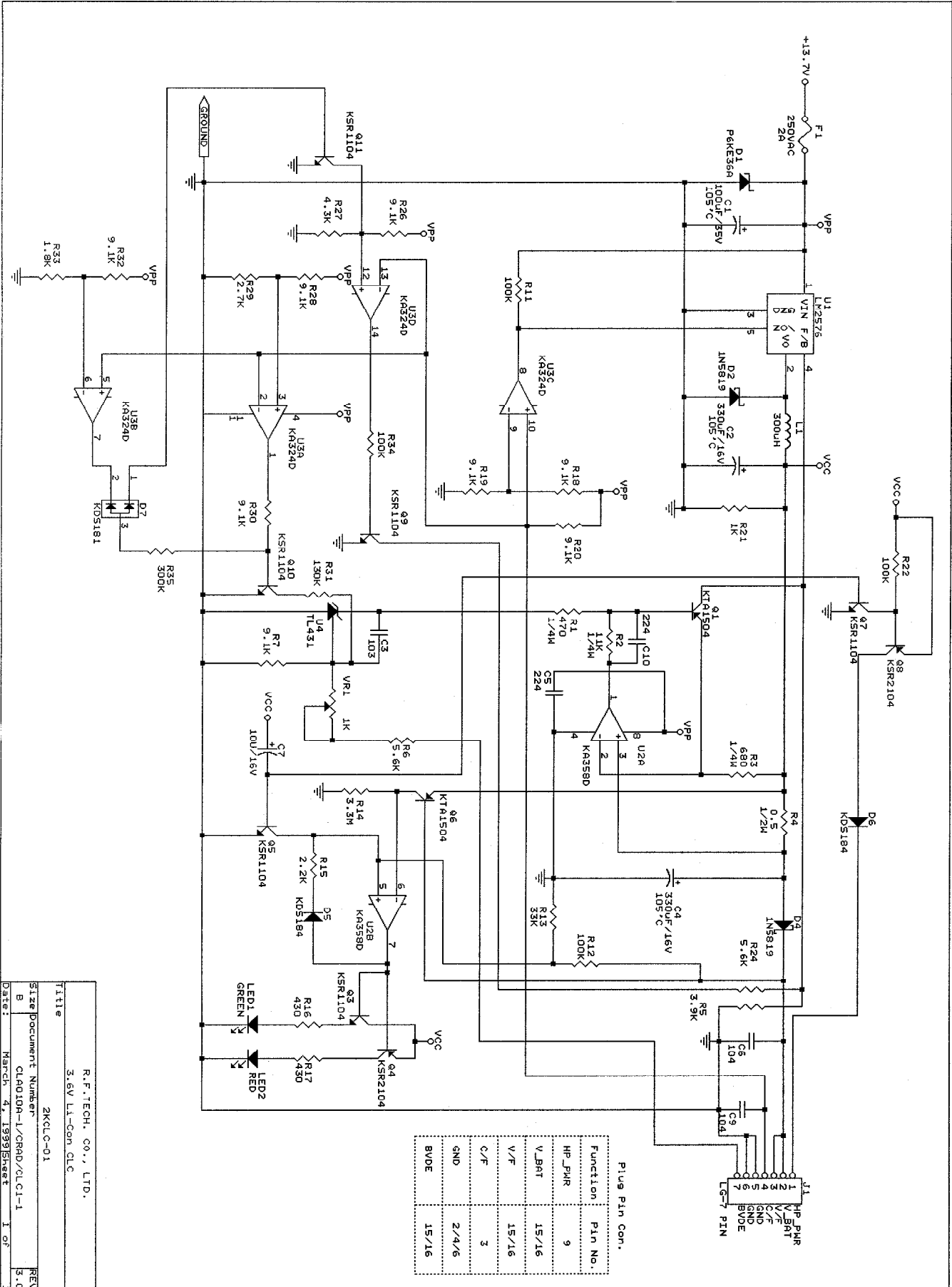
10-9 Travel Charger Circuit Diagram



MATERIAL	FINISH	Q'TY	MODEL	TC55B
DESIGN	CHECK	APPROVE	INITIAL RELEASE	1997.10.08
SCALE	SCALE	SCALE	FINAL REVISION	1998.07.02
PAGE	PAGE	PAGE	TITLE	SCHEMATIC
1 OF 1	1 OF 1	1 OF 1	DWG. NO	3XS090A0

ANAM Instruments Inc.

10-10 CLC (Cigarette Lighter Charger) Circuit Diagram



Plug Pin Con.

Function	Pin No.
HP_PMR	9
V_BAT	15/16
V/F	15/16
C/F	3
GND	2/4/6
B+DE	15/16

Title: R.F. TECH. CO., LTD.
 3.6V LA-Con CLC
 Size Document Number: 2KCLC-01
 B: Q160106-1/GRD/CLC1-1
 Date: March 4, 1999 Sheet 1 of 1