Docking speaker

DS1100/all

Service
Service
Service

Service Manual

Made for
iPod

Works with
iPhone

TABLE OF CONTENTS

**CLASS 1
LASER PRODUCT**

Version 1.1

PHILIPS

TECHNICAL SPECIFICATION

iPhone compatibility
• Compatible with: iPhone, iPhone 3G, iPhone 3GS

iPod compatibility
• Compatible with: iPod, iPod 5th Generation, iPod classic, iPod mini, iPod nano, iPod nano 1st Generation, iPod nano 2nd Generation, iPod nano 3rd Generation, iPod nano 4th Generation, iPod nano 5th Generation, iPod shuffle, iPod touch, iPod touch 2nd Generation, iPod touch 2nd Gen 8/16/32GB, iPod with color display

iPhone/ iPod APP
• App name: Fidelio+
• Free download from App store
• Compatibility: iPhone OS 3.0, Fidelio docking speaker
• Playback: Album/track navigation, Playback controls
• Clock: Digital display, Analog display
• Alarm: Multiple alarms, Wake up to music, Wake up to nature sounds, Wake up to photo, Sleep timer

Charging
• USB devices: 5V

Audio Playback
• Cradle playback mode: Charging iPhone

Convenience
• Clock/Version: Digital

Sound
• Output power (RMS): 4W
• Sound System: Stereo
• Volume Control: Volume Control up/down

Loudspeakers
• Neodynium magnet system

Power
• Power supply: 100-240VAC, 50/60Hz

Dimensions
• Master carton dimensions: 204 x 196 x 273 mm
• Master carton quantity: 2
• Master carton weight: 2.35 kg
• Product dimensions (WxDxH): 171 x 67 x 171 mm
• Weight: 0.75 kg
• Weight incl. Packaging: 1.03 kg

VERSION VARIATION

Type /Versions: Board in used: / Service policy	DS1100								
	/12 (APAC)	/12 (Latam)		/05 (APAC)			/37 (LATAM)	/77 (LATAM)	/78 (LATAM)
Main BOARD	C/M	C/M		C/M			C/M	C/M	C/M
Ipod BOARD	C	C		C			C	C	C
USB BOARD	C	C		C			C	C	C
Key BOARD	C	C		C			C	C	C

Type /Versions: Features / Feature diffrence	DS1100								
	/12	/12		/ 05			/37	/77	/78
RDS									
VOLTAGE SELECTOR									
ECO STANDBY - DARK									

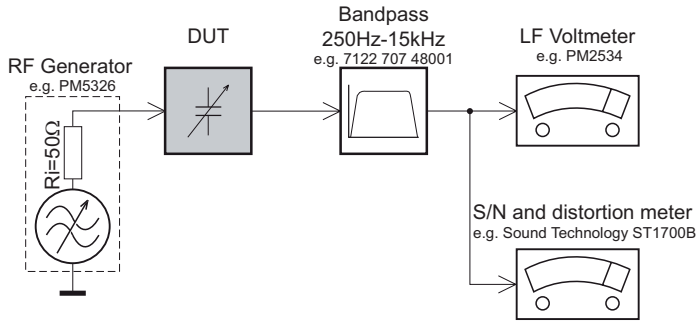* TIPS : C -- Component Lever Repair.
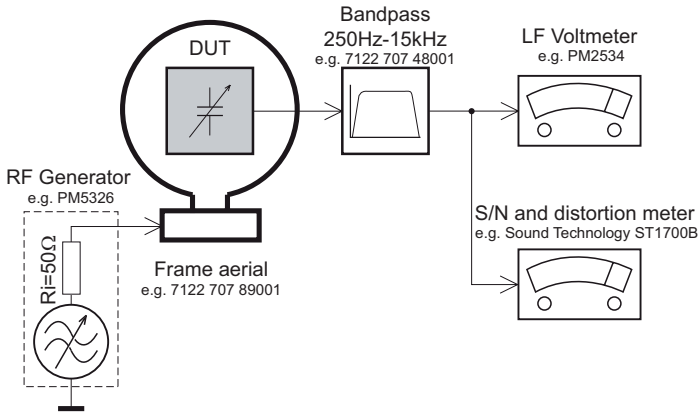   M -- Module Lever Repair
   √ -- Used

MEASUREMENT SETUP

Tuner FM

Use a bandpass filter to eliminate hum (50Hz, 100Hz) and disturbance from the pilottone (19kHz, 38kHz).
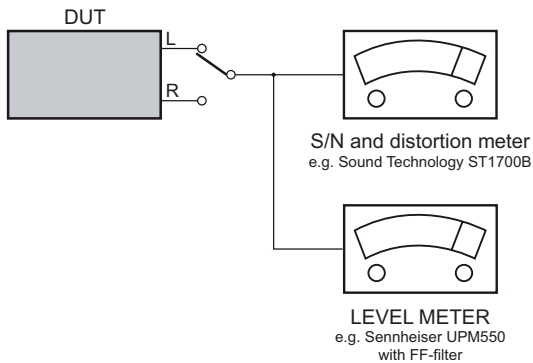
Tuner AM (MW,LW)

To avoid atmospheric interference all AM-measurements have to be carried out in a Faraday´s cage.
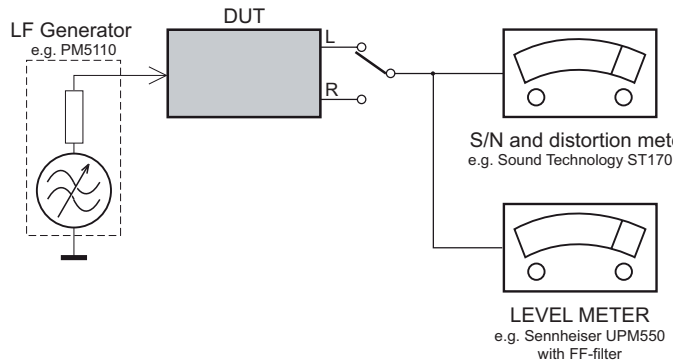Use a bandpass filter (or at least a high pass filter with 250Hz) to eliminate hum (50Hz, 100Hz).

CD

Use Audio Signal Disc   SBC429 4822 397 30184
(replaces test disc 3)

Recorder

Use Universal Test Cassette **CrO2**   SBC419 4822 397 30069
  or Universal Test Cassette **Fe**   SBC420 4822 397 30071

SERVICE AIDS

GB **WARNING**

All ICs and many other semi-conductors are
susceptible to electrostatic discharges (ESD).
Careless handling during repair can reduce life
drastically.
When repairing, make sure that you are
connected with the same potential as the mass
of the set via a wrist wrap with resistance.
Keep components and tools also at this
potential.

GB

Safety regulations require that the set be restored to its original
condition and that parts which are identical with those specified,
be used

Safety components are marked by the symbol ⚠ .

ESD

**CLASS 1
LASER PRODUCT**

INFORMATION ABOUT LEAD-FREE SOLDERING

Philips CE is producing lead-free sets from 1.1.2005 onwards.
IDENTIFICATION:

Regardless of special logo (not always indicated) one must treat all sets from ⟨1 Jan 2005⟩ onwards, according next rules:

- On our website **www.atyourservice.ce.Philips.com** you find more information to:

  * BGA-de-/soldering (+ baking instructions)
  * Heating-profiles of BGAs and other ICs used in Philips-sets
  * Lead free

  You will find this and more technical information within the "magazine", chapter "workshop news".

For additional questions please contact your local repair-helpdesk.

SERVICE INSTRUCTION

Safety regulations require that after a repair, the set must be returned in its original condition. Pay in particular attention to
the following points:

- Route the wire trees correctly and fix them with the
  mounted cable clamps.
- Check the insulation of the AC Power lead for external
  damage.
- Check the strain relief of the AC Power cord for proper
  function.
- Check the electrical DC resistance between the AC Power
  Plug and the secondary side (only for sets which have a AC
  Power isolated power supply):

1. Unplug the AC Power cord and connect a wire
   between the two pins of the AC Power plug.
2. Set the AC Power switch to the "on" position (keep the
   AC Power cord unplugged!).
3. Measure the resistance value between the pins of the
   AC Power plug and the metal shielding of the tuner or
   the aerial connection on the set. The reading should be
   larger than 4.5 Mohm (For U.S. it should be between
   4.2 Mohm and 12 Mohm).
4. Switch "off" the set, and remove the wire between the
   two pins of the AC Power plug.

- Check the cabinet for defects, to avoid touching of any
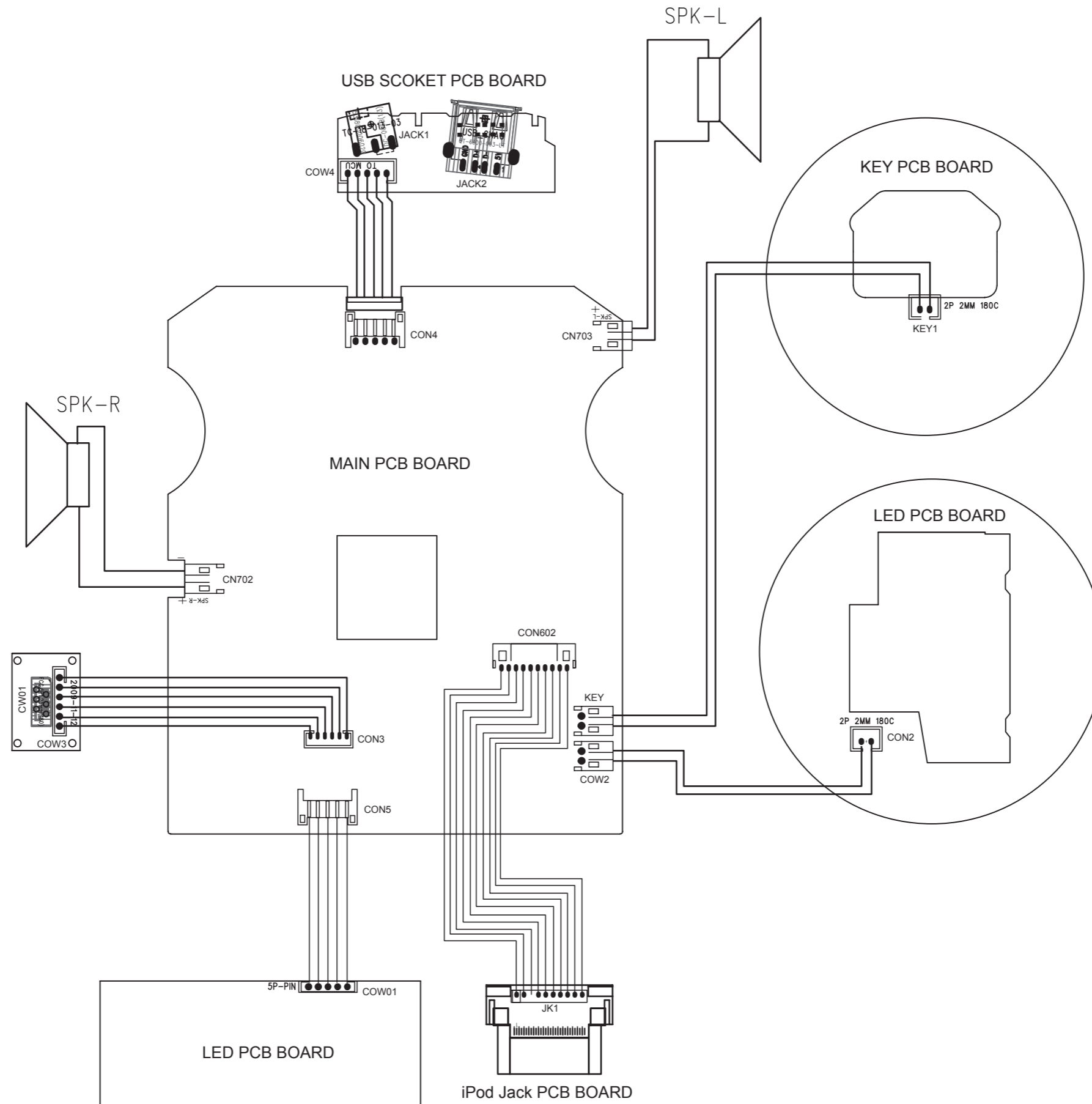 inner parts by the customer.

BLOCK DIAGRAM

2WX2

L_SP   R_SP

IPOD_LCH

IPOD_RCH

BPF
LM324

iPod ID
Processor

L-OUT   R-OUT

MONO CLASSD
PAM8403

IPOD_SOCKET
(30P)

GND
+5V

L-CH   R-CH

TX
RX

I/O

SDA
SCL

VOLUME CTL
UE2314

H.F.P
YD4558

DCS1000_SYS_MCU
GY205

IPOD_LCH
IPOD_RCH

GND
D+
D-
+5V

USB JACK
FOR CHARGING

GND
+5V

+6V SUPPLY

DC JACK

AC ADAPTOR
INPUT :100V_AC240V

I/O   KEY

LED DISPLAY
4GRIDX12SEG

LED DRIVER
PT6964

Function Key
Button

GND
+5V

78R05
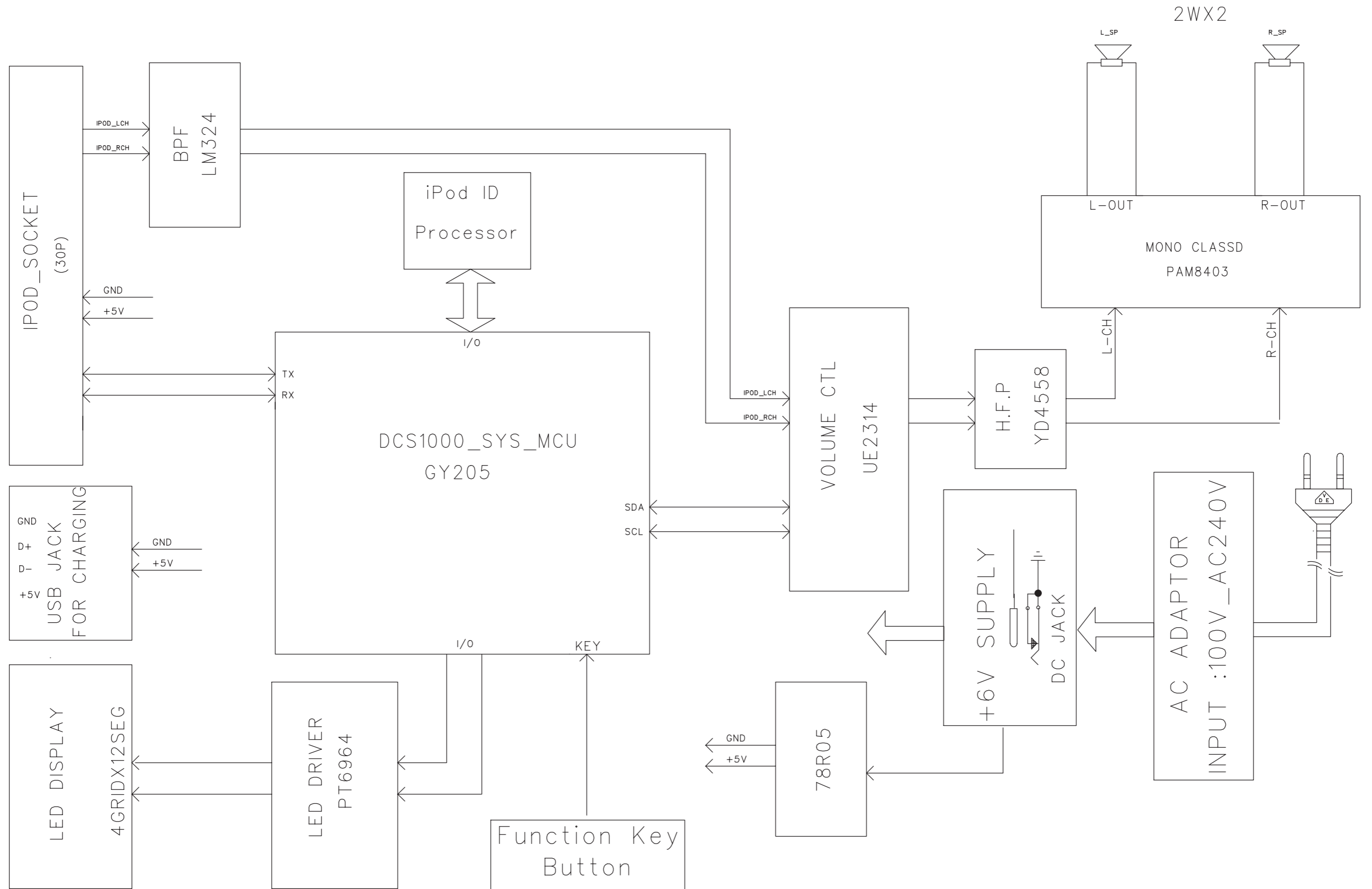
WIRING DIAGRAM

DISASSEMBLY DIAGRAM

Dismantling of the Bottom Cabinet

1) Remove 6 rubber feet A and 6 screws B as indicated to loosen the Bottom Cabinet.

2) Remove 6 screws C as indicated to loosen the speaker box bottom.
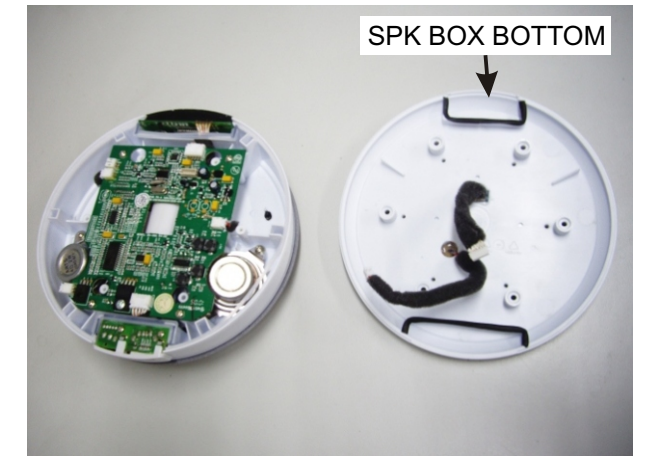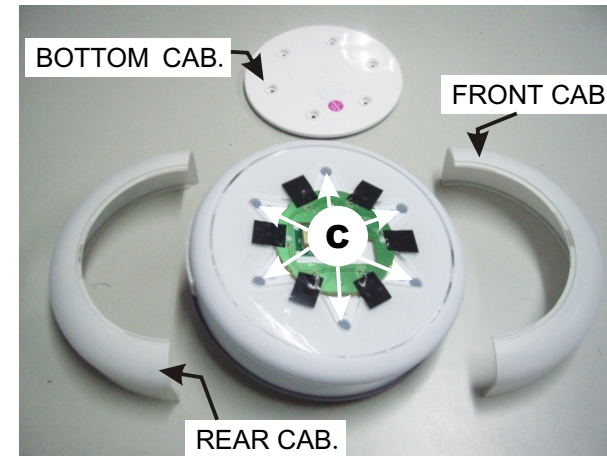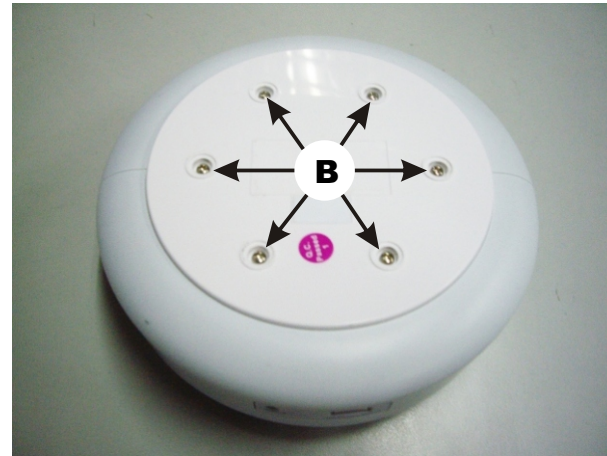
Dismantling of the PCB Board.

1）Remove 4 screws D as indicated to loosen the Main Board.

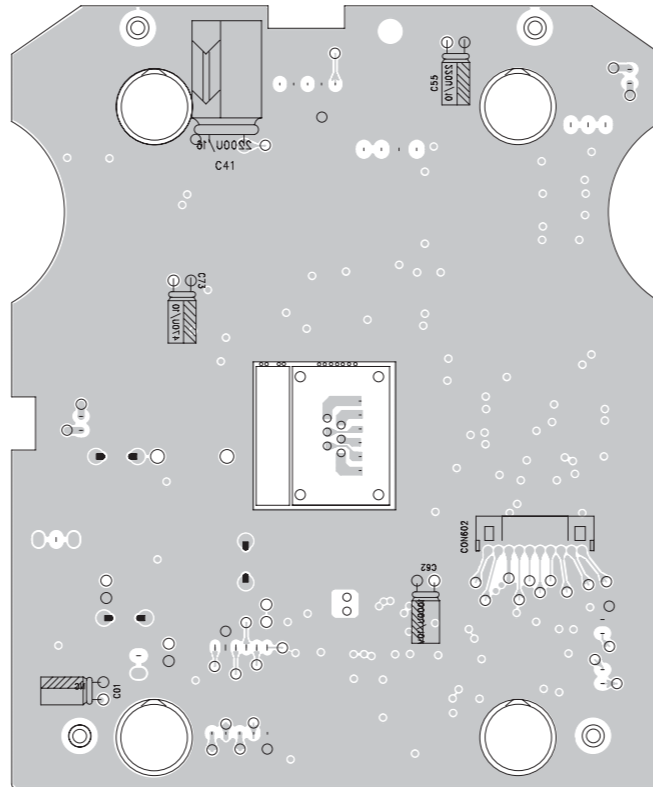2）Remove 2 screws E as indicated to loosen the USB Socket Board.
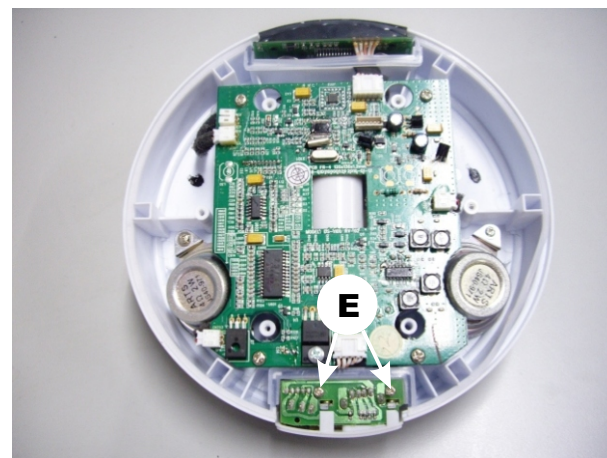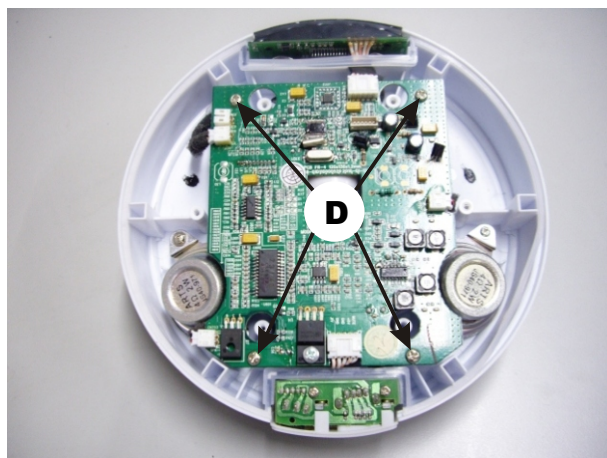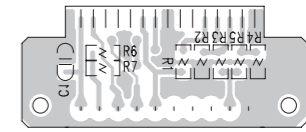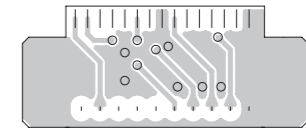
CIRCUIT DIAGRAM
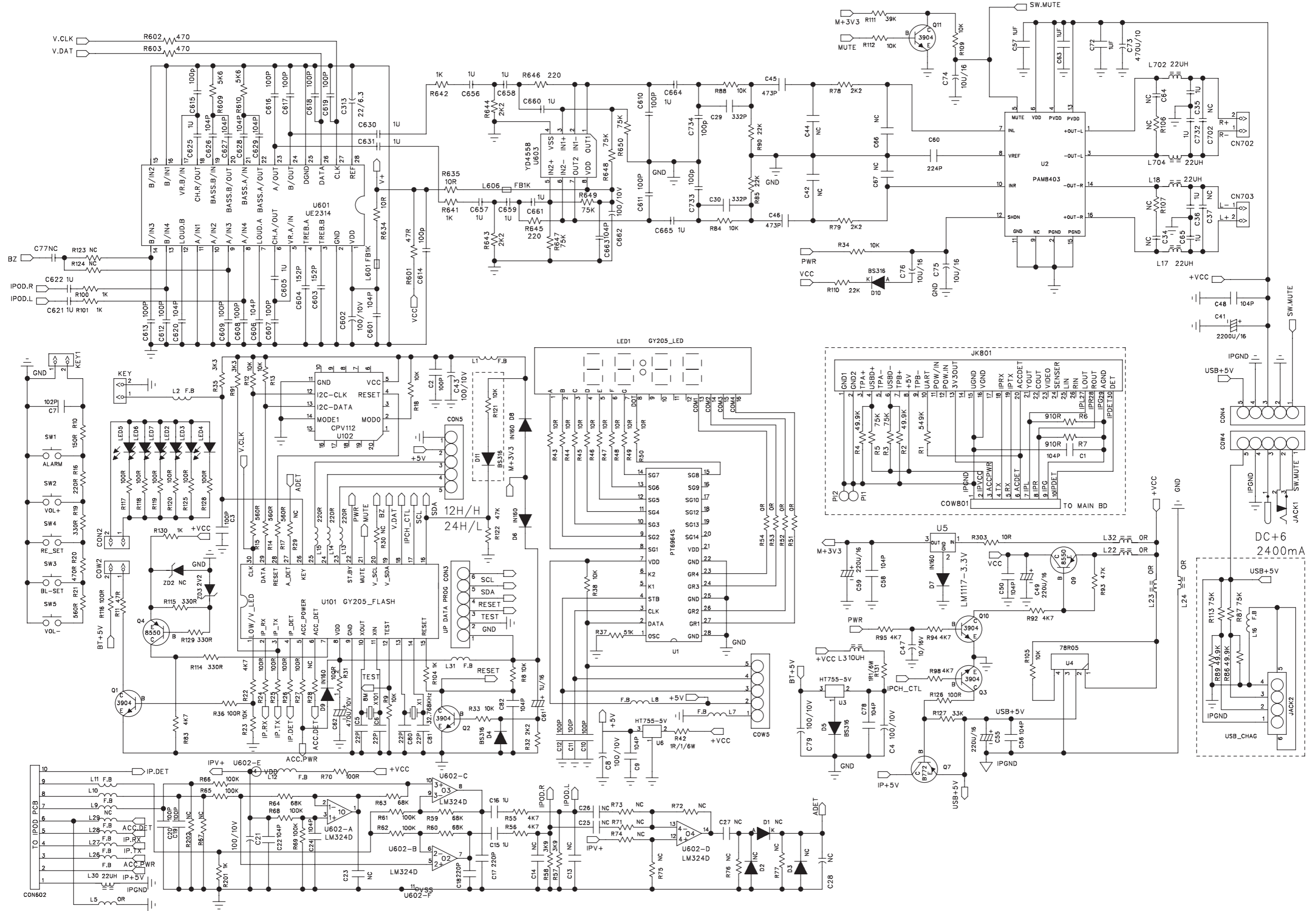
LAYOUT DIAGRAM
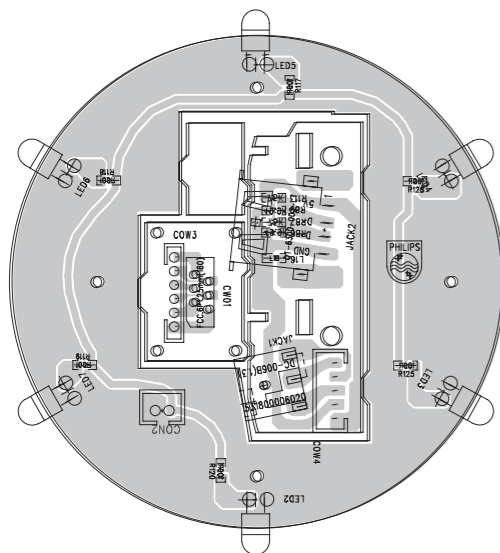
Topside of Main Board
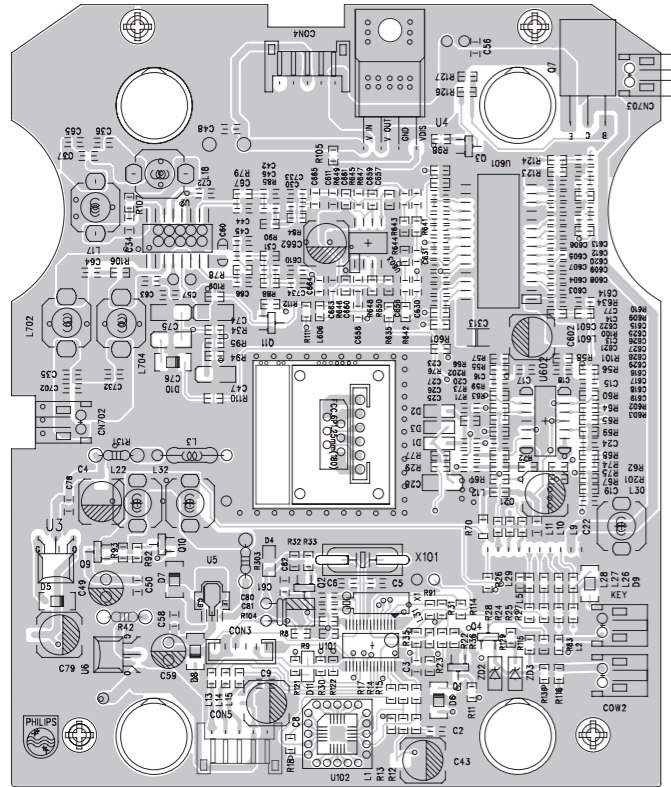
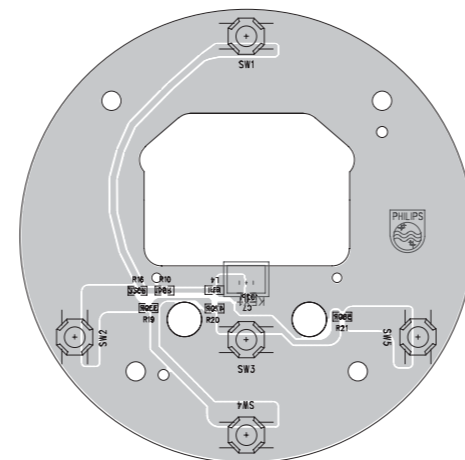Bottomside of Main Board

Topside of iPod Docking Board

Bottomside of iPod Docking Board

USB Socket Board

Key Board

EXPLODED VIEW