

Service
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Service Manual



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Published by LX 1033 Service Audio

Printed in The Netherlands

Subject to modification

3141 785 35202

Version 1.2



PHILIPS

TECHNICAL SPECIFICATION

iPhone compatibility

- Compatible with: iPhone, iPhone 3G, iPhone 3GS

iPod compatibility

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

iPhone/ iPod APP

- Free download from App store
- App name: Fidelio+
- Compatibility: Fidelio docking speaker, iPhone OS 3.0
- Playback: Album/track navigation, Playback controls
- Sound settings: DBB, DSC-Flat,Pop,Rock,Jazz,Classic
- Clock: Analog display, Digital display
- Alarm: Multiple alarms, Sleep timer, Wake up to music, Wake up to nature sounds, Wake up to photo

Audio Playback

- Cradle playback mode: Charging iPhone

Sound

- Output power (RMS): 8W
- Sound System: Stereo
- Volume Control: Volume Control up/down
- Sound Enhancement: Dynamic Bass Boost

Connectivity

- PC Link: USB 2.0
- Aux in

Loudspeakers

- Neodymium magnet system

Power

- Power supply: 100-240VAC, 50/60Hz, Battery
- Battery type: AA / LR6 Alkaline
- Number of batteries: 4
- Operating time on battery: 8 hr

Dimensions

- Master carton weight: 3.03 kg
- Product dimensions (WxDxH): 210 x 150 x 135
- Weight incl. Packaging: 1.33 kg
- Master carton dimensions: 300 x 240 x 145 mm
- Master carton quantity: 2
- Weight: 0.96 kg

Accessories

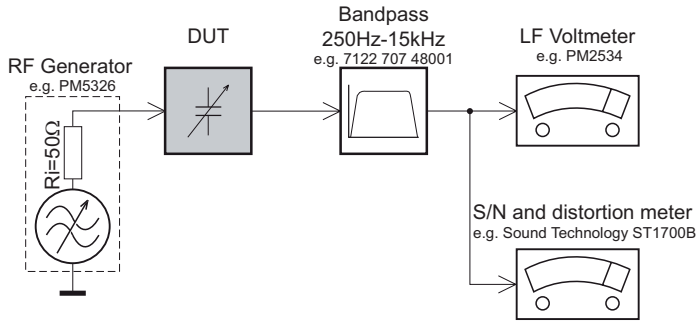
- Cables: 3.5mm AUX-in
- USB cable: White

VERSION VARIATION

Type /Versions: Board in used:	DS3000									
	/93 (CHINA)	/12 (APAC)			/05 (APAC)	/37 (Latam)		/98 (APAC)	/78 (Latam)	
Main BOARD	C/M	C/M			C/M	C/M		C/M	C/M	
Ipod BOARD	C	C			C	C		C	C	
Type /Versions: Features	DS3000									
Feature difference	/93	/12			/05	/37		/98	/78	
RDS										
VOLTAGE SELECTOR										
ECO STANDBY - DARK										
* TIPS : C -- Component Lever Repair. M -- Module Lever Repair √ -- Used										

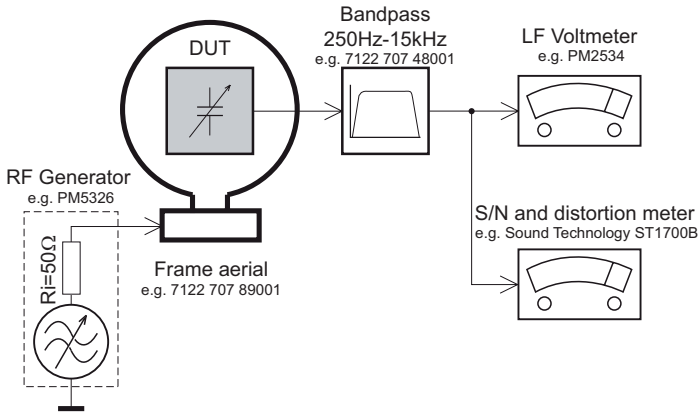
MEASUREMENT SETUP

Tuner FM



Use a bandpass filter to eliminate hum (50Hz, 100Hz) and disturbance from the pilotone (19kHz, 38kHz).

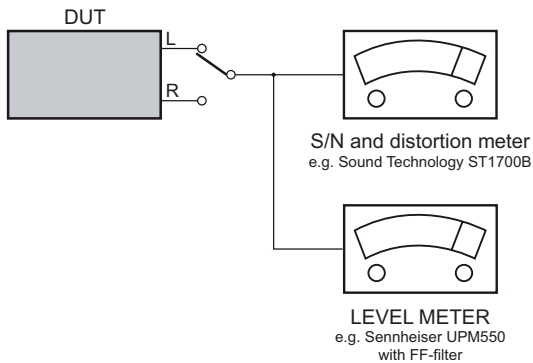
Tuner AM (MW,LW)



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).

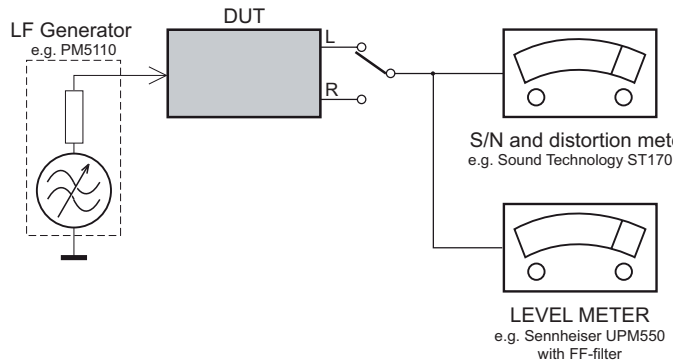
CD

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



Recorder

Use Universal Test Cassette **Cr02** 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.

ESD



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 .

**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

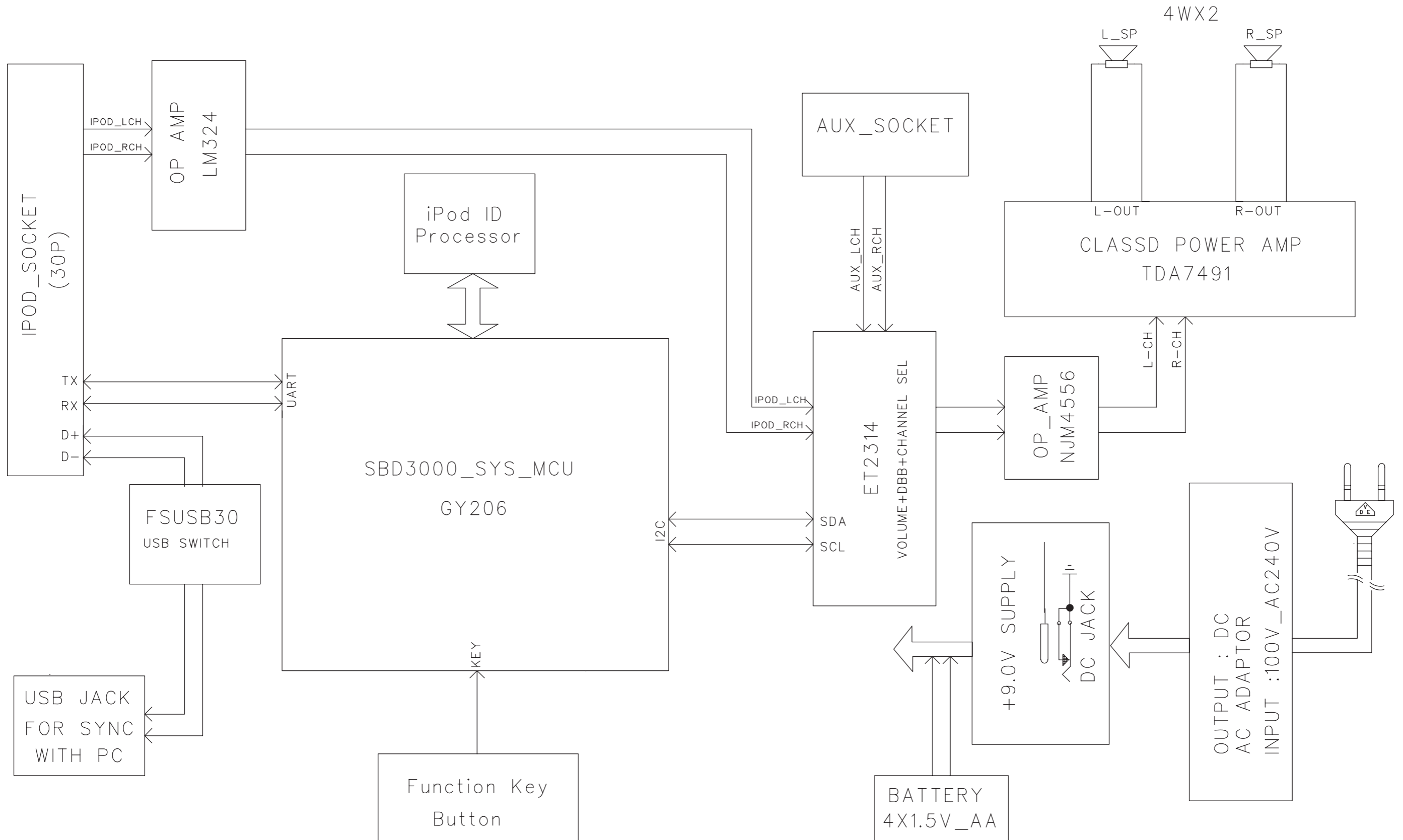
Safety regulations require that after a repair, the set must be returned in its original condition. Pay in particular attention to the following points:

- 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.

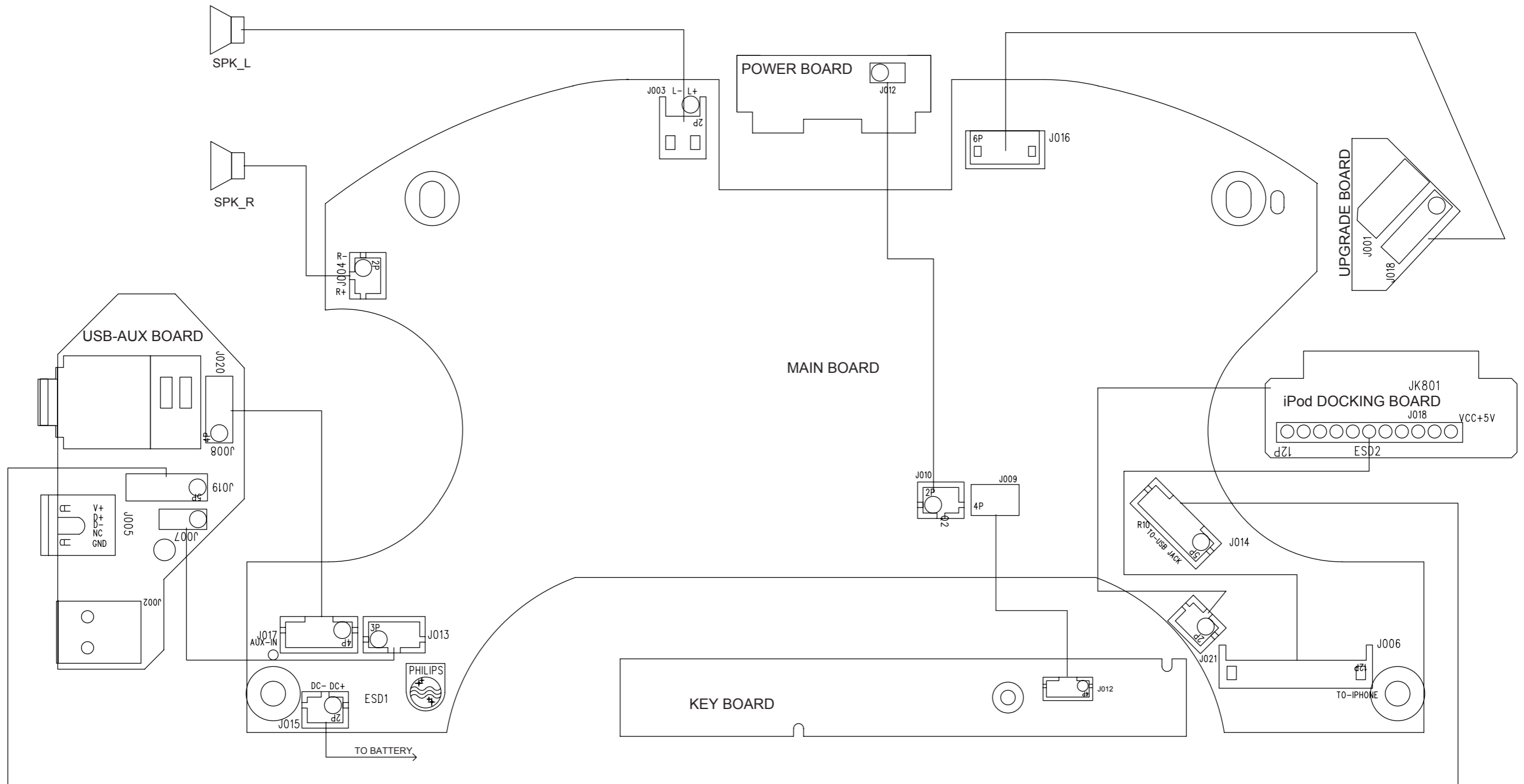
BLOCK DIAGRAM

3-1

3-1

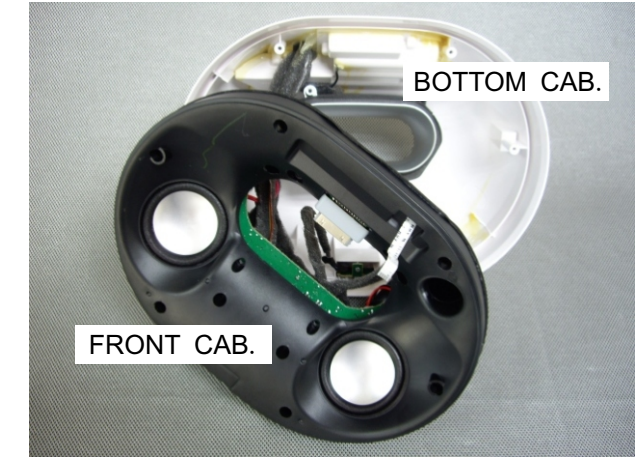
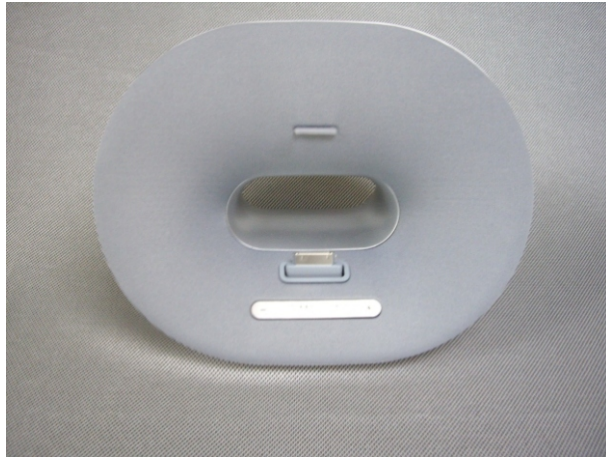


WIRING DIAGRAM

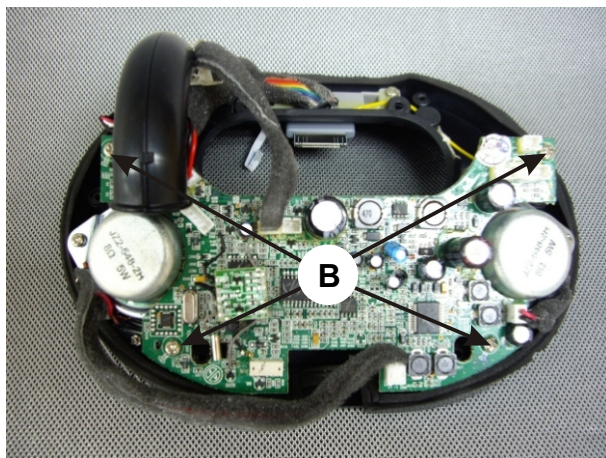


DISASSEMBLY DIAGRAM**Dismantling of the Bottom Cabinet**

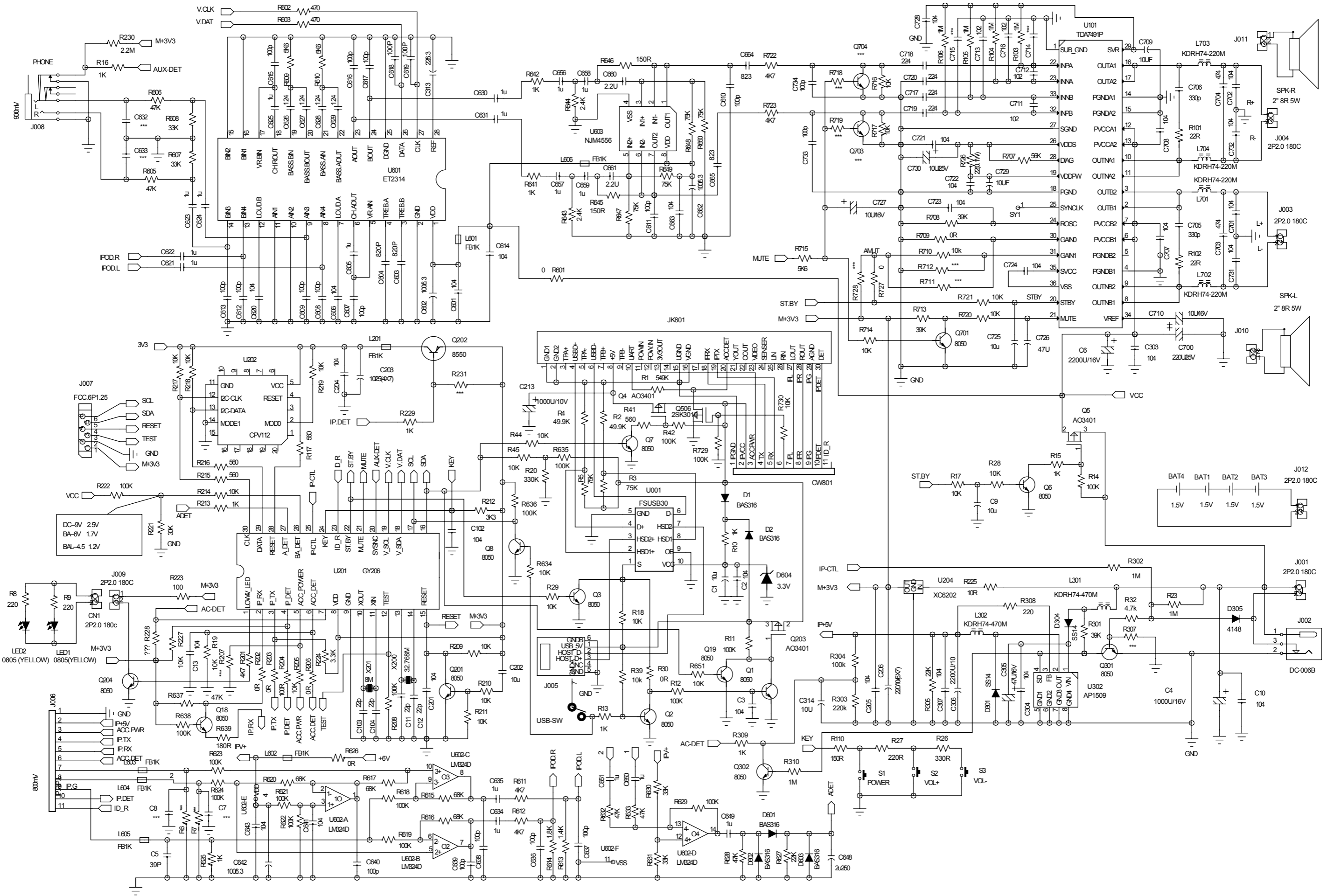
- 1) Remove the speaker grill as indicated.
- 2) Remove 10 screws A as indicated to loosen the Bottom Cabinet.

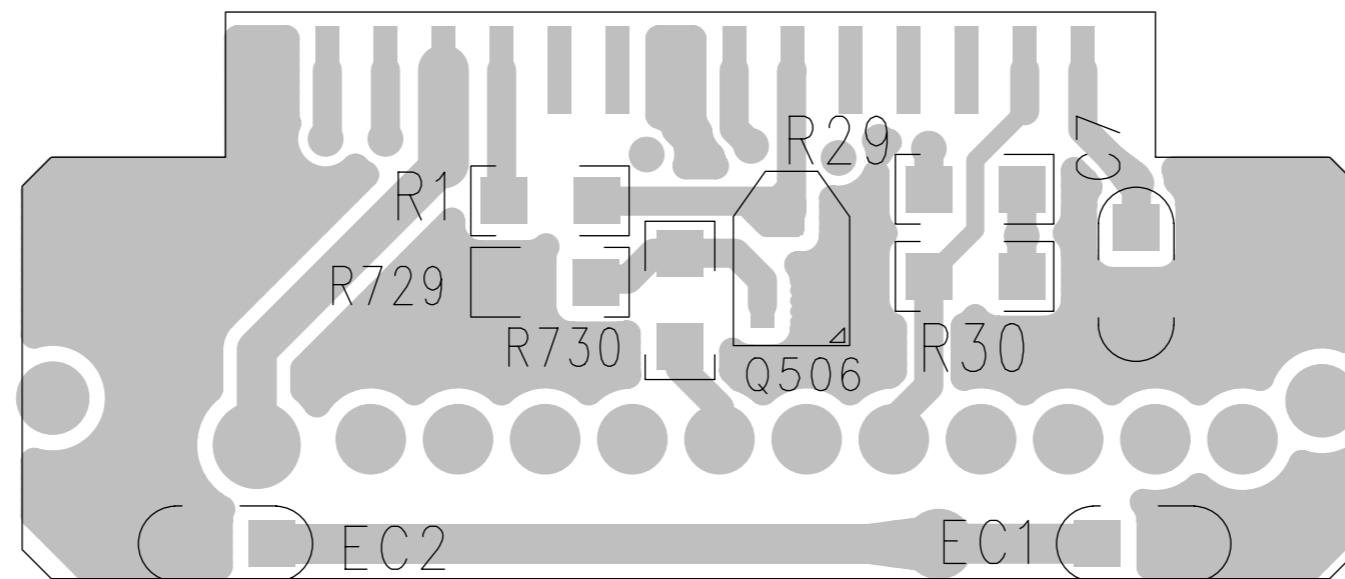
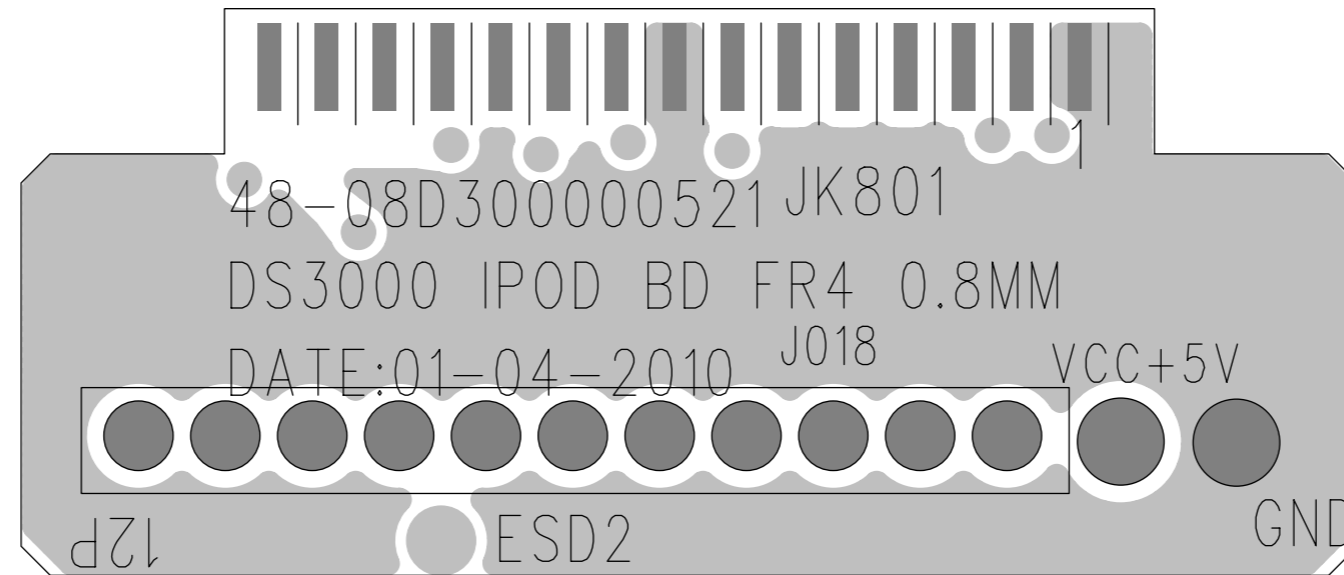
**Dismantling of the PCB Board.**

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



CIRCUIT DIAGRAM- MAIN BOARD / iPod DOCKING BOARD





EXPLODED VIEW

7-1

7-1

