

Service
Service
Service



Service Manual



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Published by YB 0720 Service Audio

Subject to modification

GB 3141 785 31890

Version 1.0



PHILIPS



TABLE OF CONTENTS

Service Aid_ CD playability Check.....	1-1 ... 1-4
Technical specification	2-1
Connections and controls	3-1 ... 3-3
Disassembly Instructor	4-1
Service test program	5-1 ... 5-2
Software upgrading procedure	5-3
Gracenote CD Information.....	5-4
Set block diagram	6-1
Set wiring diagram	7-1
PB-W ifi-light.....	8-1
PB ADIO Inbut.....	8-2
PB headphone.....	8-3
PB-AF&	
circuit diagram	9-1 ... 9-4
layout diagram	9-5 ... 9-6
PB-KEYS & IR	
circuit diagram	10-1
layout diagram	10-2
HAS Module	11-1
circuit diagram	11-2 ... 11-11
layout diagram	11-12 ... 11-13
Exploded view diagram	12-1
Mechanical & Electrical Partslist	12-2

SERVICE AIDS

Service Tools:

Universal Torx driver holder	4822 395 91019
Torx bit T10 150mm	4822 395 50456
Torx driver set T6-T20	4822 395 50145
Torx driver T10 extended	4822 395 50423

Compact Disc:

SBC426/426A Test disc 5 + 5A	4822 397 30096
SBC442 Audio Burn-in test disc 1kHz	4822 397 30155
SBC429 Audio Signals disc	4822 397 30184
Dolby Pro-logic Test Disc	4822 395 10216

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".

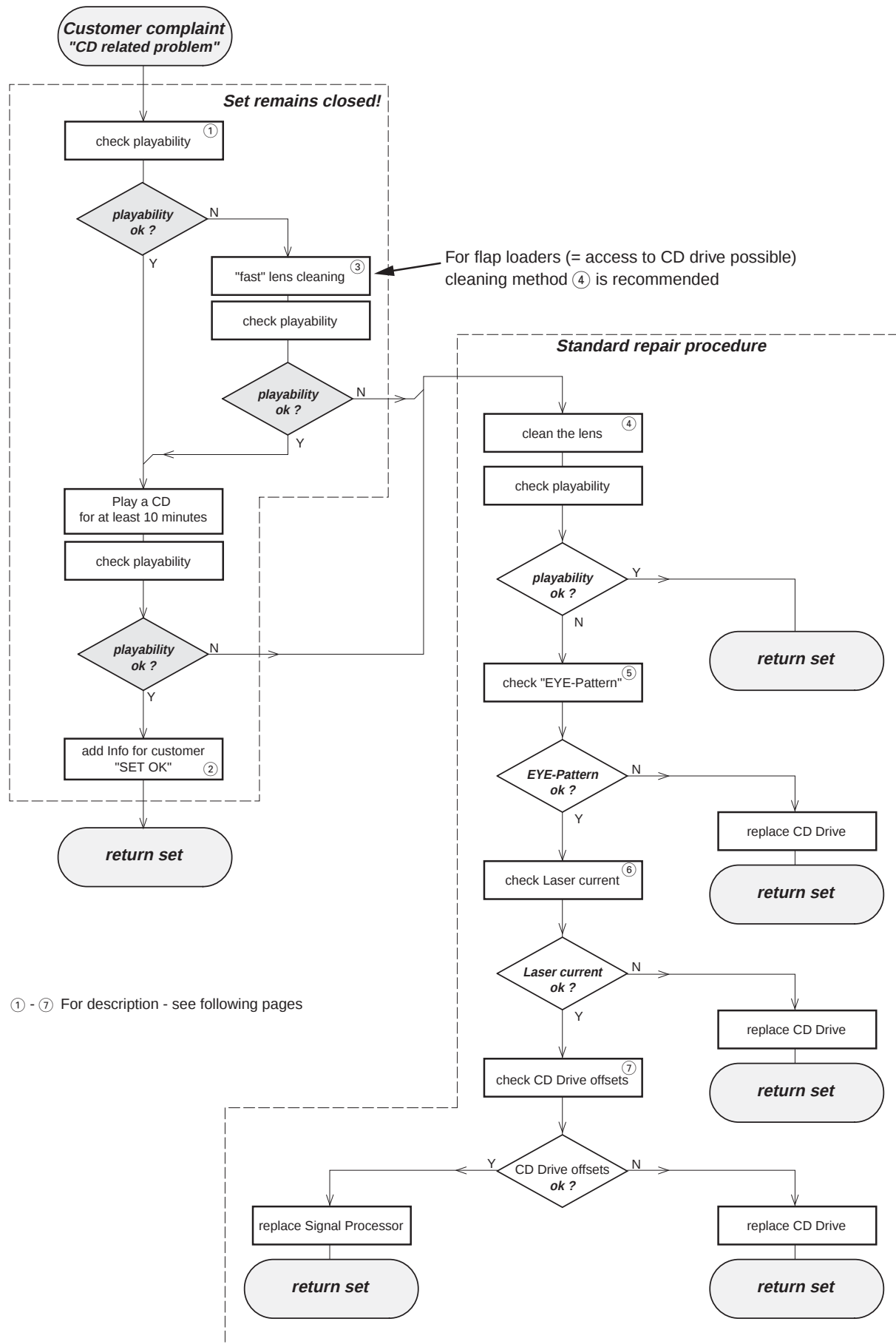
For additional questions please contact your local repair-helpdesk.

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.

CD PLAYABILITY CHECK



① - ⑦ For description - see following pages

CD PLAYABILITY CHECK

①

PLAYABILITY CHECK

For sets which are compatible with **CD-RW** discs
 use CD-RW Printed Audio Disc7104 099 96611
 TR 3 (Fingerprint)
 TR 8 (600µ Black dot) **maximum at 01:00**

- playback of these two tracks without audible disturbance
 playing time for: Fingerprint ≥ 10 seconds
 Black dot from 00:50 to 01:10
- jump forward/backward (search) within a reasonable time

For all other sets
 use CD-DA SBC 444A4822 397 30245
 TR 14 (600µ Black dot) **maximum at 01:15**
 TR 19 (Fingerprint)
 TR 10 (1000µ wedge)

- playback of all these tracks without audible disturbance
 playing time for: 1000µ wedge ≥ 10 seconds
 Fingerprint ≥ 10 seconds
 Black dot from 01:05 to 01:25
- jump forward/backward (search) within a reasonable time

②

CUSTOMER INFORMATION

It is proposed to add an addendum sheet to the set which informs the customer that the set has been checked carefully - but no fault was found.

The problem was obviously caused by a scratched, dirty or copy-protected CD. In case problems remain, the customer is requested to contact the workshop directly.

The lens cleaning (method ③) should be mentioned in the addendum sheet.

The final wording in national language as well as the printing is under responsibility of the Regional Service Organizations.

③

FAST LENS CLEANING (dry brush)

Use lens cleaning CD
 SBC AC3009082 100 00043

Insert the lens cleaning CD, press PLAY and follow the voice guide's instructions on the CD.

④

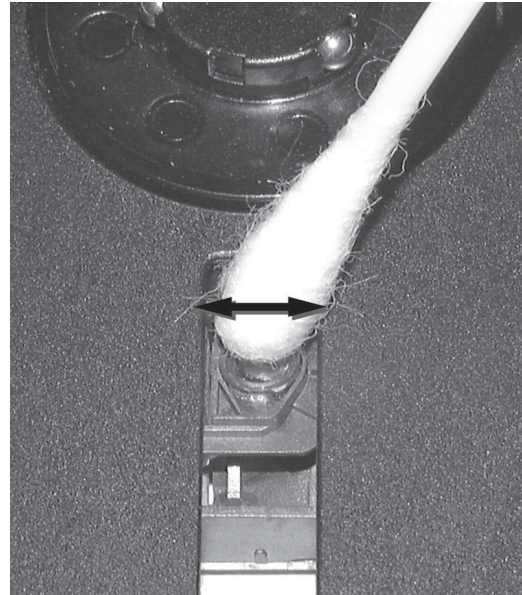
LIQUID LENS CLEANING

Before touching the lens it is advised to clean the surface of the lens by blowing clean air over it. This to avoid that little particles make scratches on the lens.

Because the material of the lens is synthetic and coated with a special anti-reflectivity layer, cleaning must be done with a non-aggressive cleaning fluid. It is advised to use "Cleaning Solvent B4-No2", available with codenumber 4822 389 10026.

The actuator is a very precise mechanical component and may not be damaged in order to guarantee its full function. Clean the lens gently (don't press too hard) with a soft and clean cotton bud moistened with the special lens cleaner.

The direction of cleaning must be in the way as indicated in the picture below.

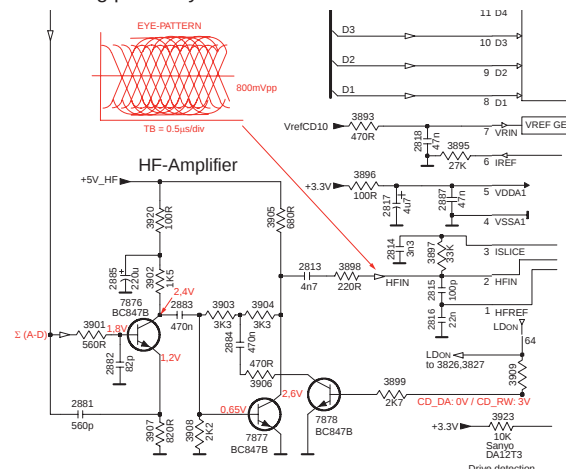


CD PLAYABILITY CHECK

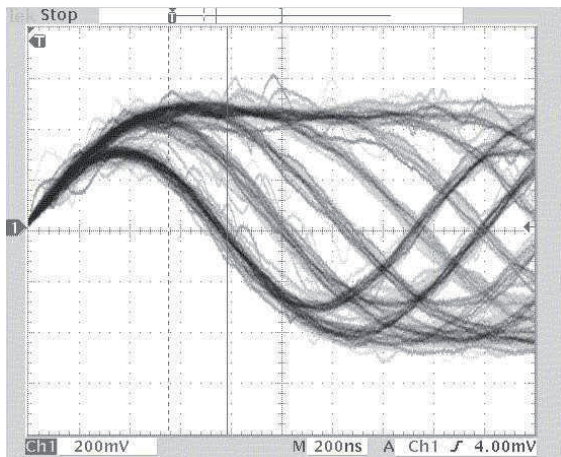
⑤

EYE-PATTERN SIGNAL – JITTER MEASUREMENT

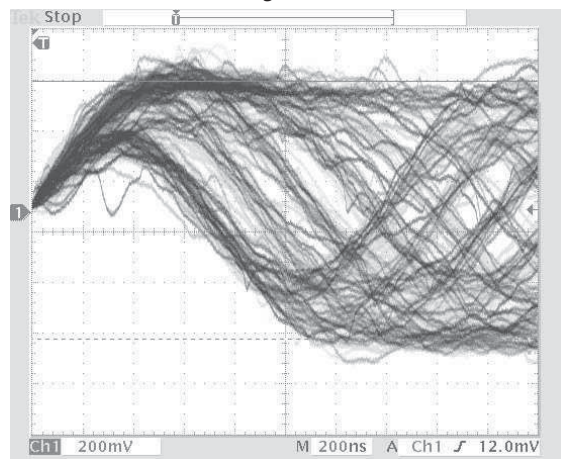
Measure the signal on the input of the Signal processor using an **analog** oscilloscope. Please find the exact measuring point in your Service Manual.



See below examples of the signal. Amplitude should read at least 700mVpp using SBC444A.



good



bad

If the oscilloscope shows a signal like the 'bad' one, and/or the amplitude decreases within 1 minute - the CD drive has to be replaced.

⑥

CD DRIVE – LASER CURRENT MEASUREMENT

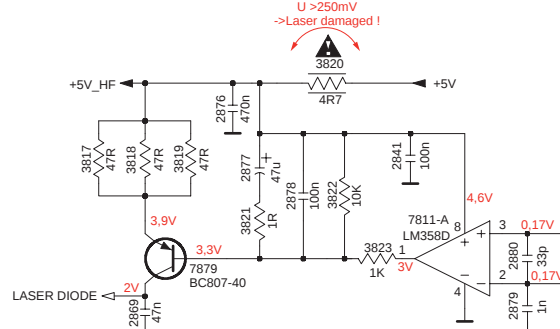
The laser current can be measured as a voltage drop on a resistor. The resistor is marked in every Service Manual. The value depends on the type of CD drive.

	typical value	most probably defect
VAMxxxx	: 150-230mV	≥350mV
MCDxx	: 170-230mV	≥300mV
DA1x	: 210-250mV	≥350mV
DA2x	: 175-200mV	≥250mV

Use SBC444A (CD-DA) for measurement.

Use SBC444A (CD-DA) for measurement.

Laser power control



⑦

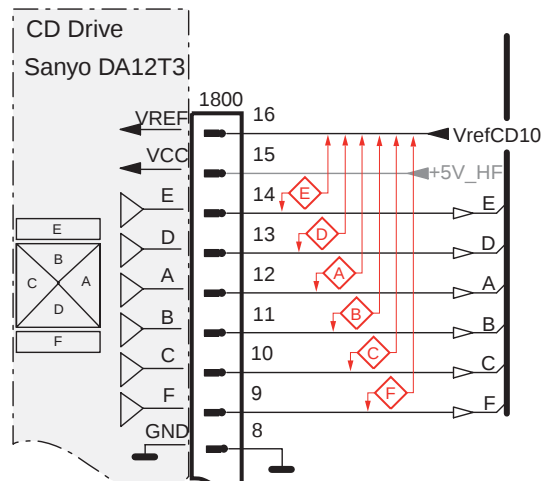
CD DRIVE – OFFSET MEASUREMENT

The photodiodes of the CD-drive may have an offset. These offsets have to be compensated by the signal processor. High offsets can lead to poor playability of some CDs (skipping tracks).

To measure the offset values, start the **Service Test Program** - section "Focus Test" without a CD.

The offsets can be measured with a DC Millivoltmeter directly on the connector (see drawing below). Pin numbering varies from drive to drive.

The values from diode A-D should read $0 \pm 10 \text{ mV}$.
Diodes E and F are less critical.



If one of the offsets is higher than $\pm 10\text{mV}$ the CD drive has to be replaced. Otherwise replace the Signal Processor.

TECHNICAL SPECIFICATION

General

AC Power230V $\pm$ 10%
 Dimensions (w x h x d)185 x 210 x 248mm
 Weight (with/without speakers).....
approx. 5.5 kg / 3.5 kg

Power consumption

Active.....< 45W
 Standby< 20W
 Eco Power Standby< 0.9W

Amplifier

Output power 2 x 40 W (RMS)
 Frequency response 60-20,000Hz, - 3dB
 Signal-to-noise ratio $\geq$ 72 dBA (IEC)
 Input sensitivity
 AUX IN..... 500mV
 Impedance speakers12 Ohm
 Impedance headphones16 Ohm-150 Ohm

Wireless

Wireless standard
802.11g, backwards compatible to 802.11b
 Wireless security
WEP (64 or 128bit), WPA-PSK
 Frequency range 2412-2462 MHz (CH1-CH11)

Wired (LAN / Ethernet)

Wired standard802.3 / 802.3u
 Speed.....10 / 100 MBit/s
 Mode.....half / full duplex
 Crossover detection (Auto MDIX).....Yes

USB player

USB12Mb/s, V1.1
support MP3, WMA and AAC files
 USB class.....MSC, MTP
 Number of albums/foldersmaximum 99
 Number of tracks/titlesmaximum 999

Speakers

2-way bass reflex system
 Dimensions (w x h x d)160 x 208 x 263mm

Tuner

FM wave range87.5-108 MHz
 Number of presets60
 FM antenna/cable.....
 COAX / Dipole-antenna (75W IEC-connector)

HDD/CD player

Frequency range60-20,000 Hz, -3 dB
 Signal-to-noise ratio.....72 dBA (IEC)
 MPEG 1 Layer 3 (MP3-CD)MPEG AUDIO
 MP3-CD bit rate
32-320 kbps, VBR
 WMA bit rateup to 160 kbps
 Sampling frequencies.....32, 44.1, 48 kHz
 HDD storage capacity80GB*
 Recording quality
128, or 160, or 192, or 256, or 320 kbps
 Recording speed.....1x, 4x
 CDDb (CD recognition database)
internal Gracenote® / online access enabled

Actual free space is 75GB or less due to the buffer partition for MP3
 Compression , firmware ,music CD database and demo tracks storing.

CONNECTION AND CONTROLS

Controls

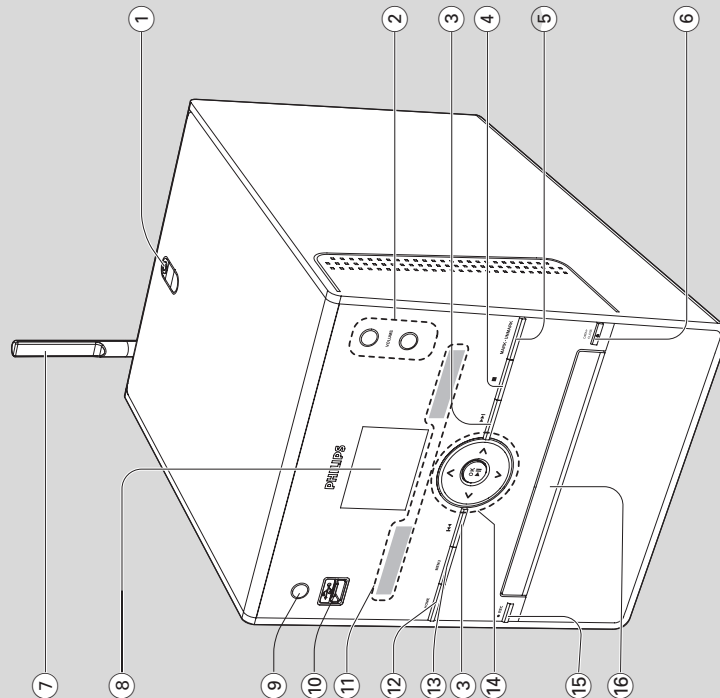
2.1 Controls on The Center (Top and front panels)

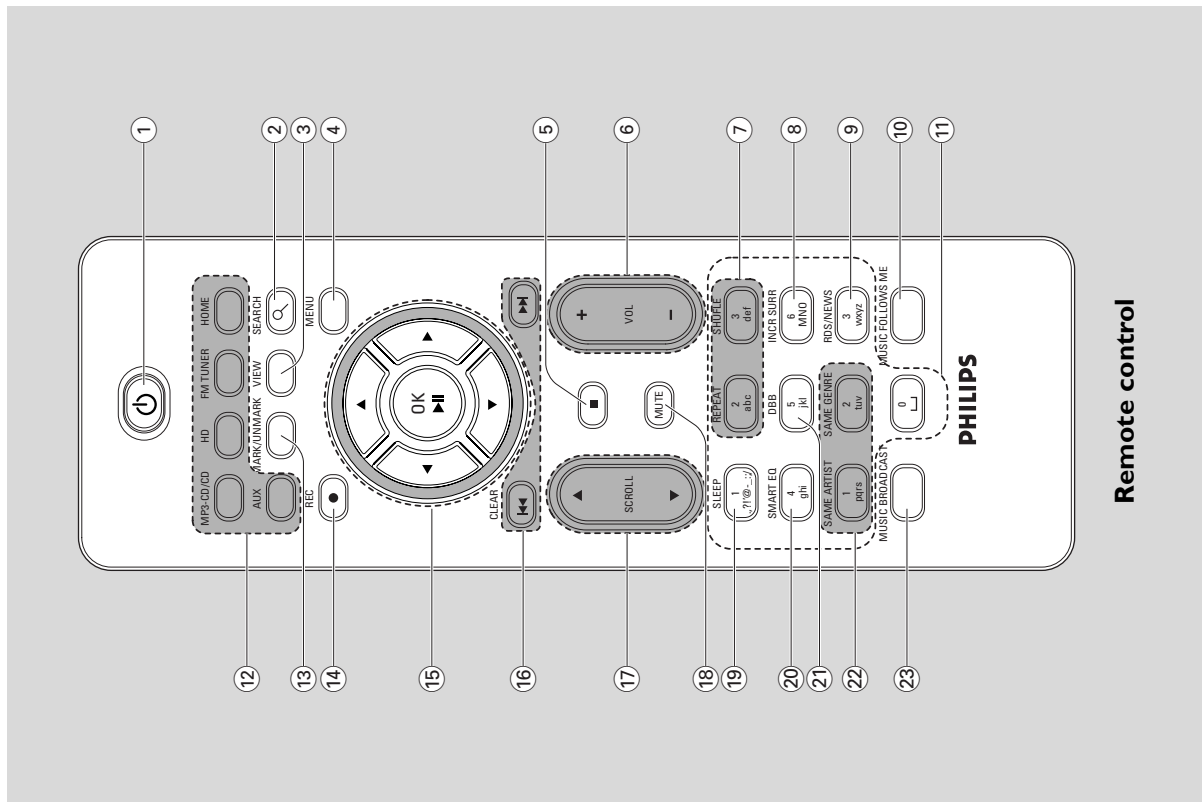
- ① 3.5 mm headphone socket
- Helpful hints:**
 - Adjust the volume to a moderate level before plugging in the headphones.
 - Connecting headphones will switch off the speakers.
- ② **VOL + / -**
 - adjusts the volume level
- ③ **◀ / ▶**
 - **HD/CD/UPnP/Portable:** skips/searches tracks/passage backward/forward (in playback screen)
 - **FM Radio:** go to previous / next preset radio station (in tuner playback screen)
 - **◀◀**
 - **Text entry:** deletes the input before cursor
- ④ **STOP**
 - stops playback or recording
- ⑤ **MARK-UNMARK**
 - Selects or deselects tracks to be recorded
- ⑥ **OPEN/CLOSE**
 - opens or closes the CD door
- ⑦ **Wi-Fi antenna**
- ⑧ **DISPLAY**
 - shows status of the set
- ⑨ **STANDBY-ON/ ECO POWER**
 - press briefly to switch on the set or put it on standby mode;
 - press and hold to switch the set to power-saving mode or on
- **Green indicator:** lights up in green when the set is switched on
- **Red indicator:** lights up in red when the set is switched to standby mode or power-saving mode
- ⑩ 
 - jack for the external USB device
- ⑪ **IR**
 - sensor for the infrared remote control

Helpful hint:

- Always point the remote control towards this sensor.

- ⑫ **HOME**
 - selects sound source: HD (hard disk), CD, Radio, UPnP, Portable or AUX
 - In standby mode: switches the set on and selects sound source: HD, CD, Radio, UPnP, Portable or AUX
- ⑬ **MENU**
 - enters or exits setup menu
- ⑭ **◀ / ▶ / ▲ / ▼**
 - navigation controls (left, right, up, down) for scrolling through the option lists
 - **HD/CD/UPnP/Portable:** returns to previous option lists
 - **▲ / ▼**
 - **HD/CD/Portable/UPnP:** skips/searches tracks/passage backward/forward (in playback screen); fast scrolling in option lists
 - **FM Radio:** tunes to radio stations
 - **▲**
 - confirms selection
 - **FM Radio:** enters the list of preset stations
 - **OK▶||**
 - starts or pauses playback
- ⑮ **RECORD**
 - **CD/FM Radio/AUX:** starts to record onto the hard disk
- ⑯ **CD door**





Remote control

2.2 Remote control

- 1 press briefly to switch on the set or put it on standby mode; press and hold to switch the set to power-saving mode
- 2 **SEARCH** enters the search mode and searches by keywords
- 3 **VIEW** toggles between playback screen and previous option list
- 4 **MENU** enters or exits setup menu
- 5 stops playback or recording
- 6 **VOL + / -** adjusts the volume level
- 7 **REPEAT** selects continuous playback
- 8 **SHUFFLE** selects random playback
- 9 **INCR. SURR.** selects surround sound effect
- 10 **RDS/NEWS** Radio: selects RDS information HD/CD/UPnP/Portable/AUX: toggles between NEWS function on or off
- 11 **MUSIC FOLLOWS ME** HD: moves music playback between Center and Station
- 12 **Alphanumeric keys** for text entry
- 13 **MP3-CD/CD** selects CD source In standby mode: switches on the set and selects the CD source.
- 14 **HD** selects HD (hard disk) source In standby mode: switches on the set and selects the HD source
- 15 **FM TUNER** selects FM RADIO source In standby mode: switches on the set and selects the FM RADIO source

- 16 **HOME** select from: HD source, CD source, Radio source, UPnP source, Portable source or AUX (from a separately connected device) In standby mode: switches on the set and select from the following music source: HD, CD, Radio, UPnP Portable or audio input from a separately connected device
- 17 **AUX** selects AUX source In standby mode: switches on the set and selects the AUX source
- 18 **MARK/UNMARK** Selects or deselects tracks to be recorded
- 19 **REC** CD/Radio/AUX: starts to record onto the hard disk
- 20 navigation controls (left, right, up, down) for scrolling through the option lists
- 21 **HD/CD/USB/UPnP**: returns to previous option lists
- 22 **Text input** moves the cursor backward
- 23 **HD/CD/USB/UPnP**: skips/searches tracks/passage backward/forward (in playback screen): fast scrolling in option lists
- 24 **FM Radio**: tunes to radio stations
- 25 confirms selection
- 26 **FM Radio**: enters the list of preset stations
- 27 **Text entry**: confirms input and moves the cursor forward
- 28 **OK/II** Confirm selection Starts playing
- 29 **HD/CD/USB/UPnP**: skips/searches tracks/passage backward/forward (in playback screen)
- 30 **FM Radio**: go to previous / next preset radio station (in tuner playback screen)
- 31 **Text entry**: deletes the input before cursor
- 32 **SCROLL** scrolls the display screen upward or downward

CONNECTION AND CONTROLS

Controls

- ⑱ **MUTE**
 - temporarily switches off the sound
- ⑲ **SLEEP**
 - adjusts, displays or switches off the sleep timer
- ⑳ **SMART EQ**
 - HD: selects the sound settings that match the current Genre
- ㉑ **DBB (Dynamic Bass Boost)**
 - toggles the bass enhancement on (DBB1, DBB2, DBB3) or off
- ㉒ **SAME GENRE**
 - HD: plays all the tracks of current Genre
- SAME ARTIST**
 - HD: plays all the tracks of current Artist
 - HD: enable Wireless Range Extender (refer to Extender's manual for details)
- ㉓ **MUSIC BROADCAST**
 - HD: broadcasts music from Center to Station

For more information on operation instruction please visit Philips
Audio internet site :
<http://www.audio.philips.com>

DISASSEMBLY INSTRUCTION

1. Remove Left & Right Cabinet

- a. remove screws M3x12 - 4 pcs



- b. pull the left or right cabinet and then lift it.



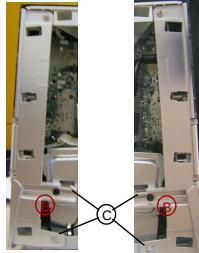
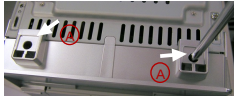
2. Remove Top Cabinet

- a. remove screws M3x10 - 2 pcs (A)
b. remove screws M3x10 - 2 pcs (B)
c. lift the Top Cabinet



3. Separate Front and Back Cabinet.

- a. remove screws T3x10 - 2 pcs. (A)
b. remove screws T3x10 - 2 pcs. (B)
c. release the catches. (C)
d. pull out the front cabinet.



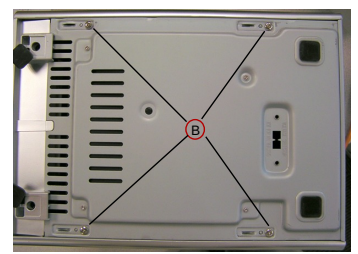
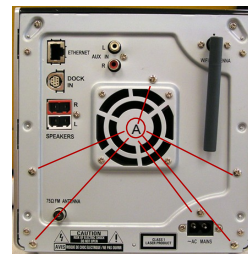
4. Remove Amplifier board

- a. remove screws M3x10 - 2 pcs (A)
b. remove screws M3x10 - 2 pcs (B)

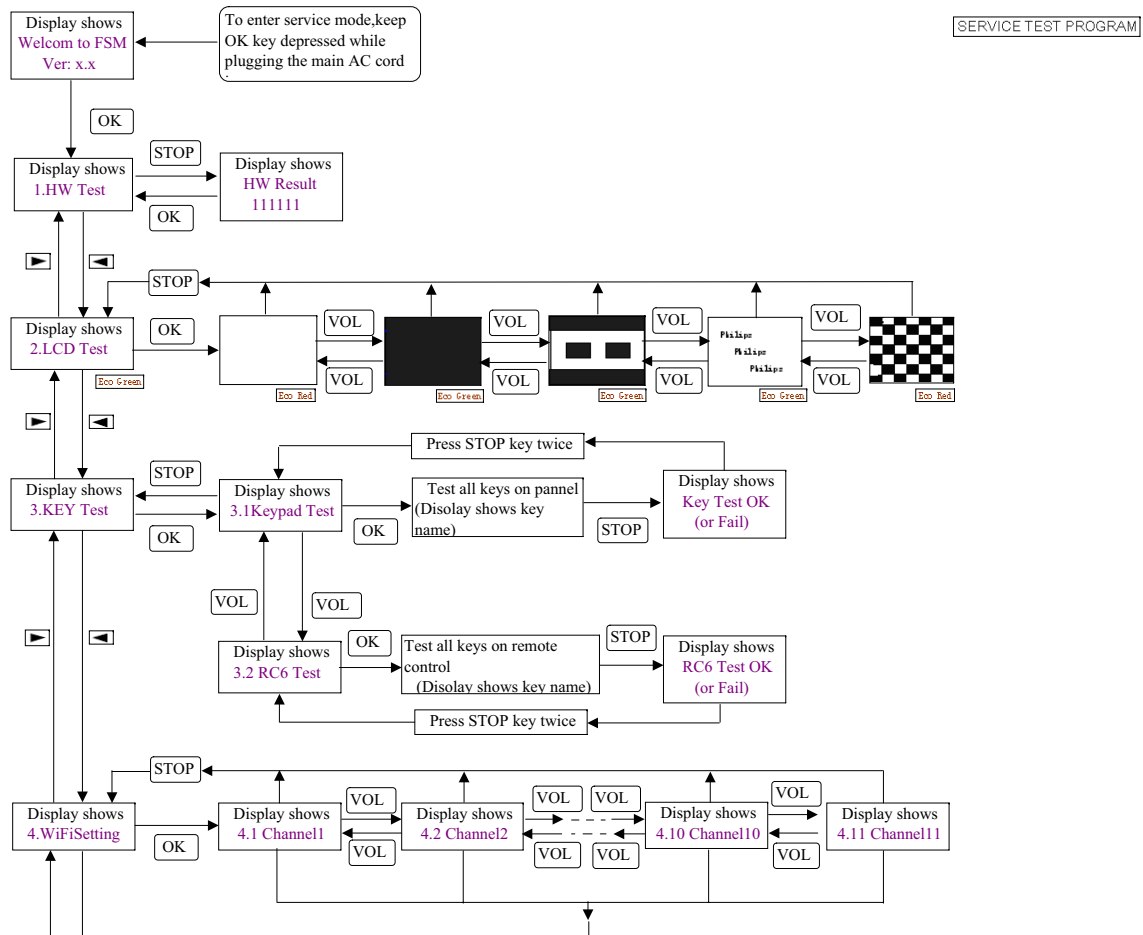


3. Separate rear and bottom Cabinet.

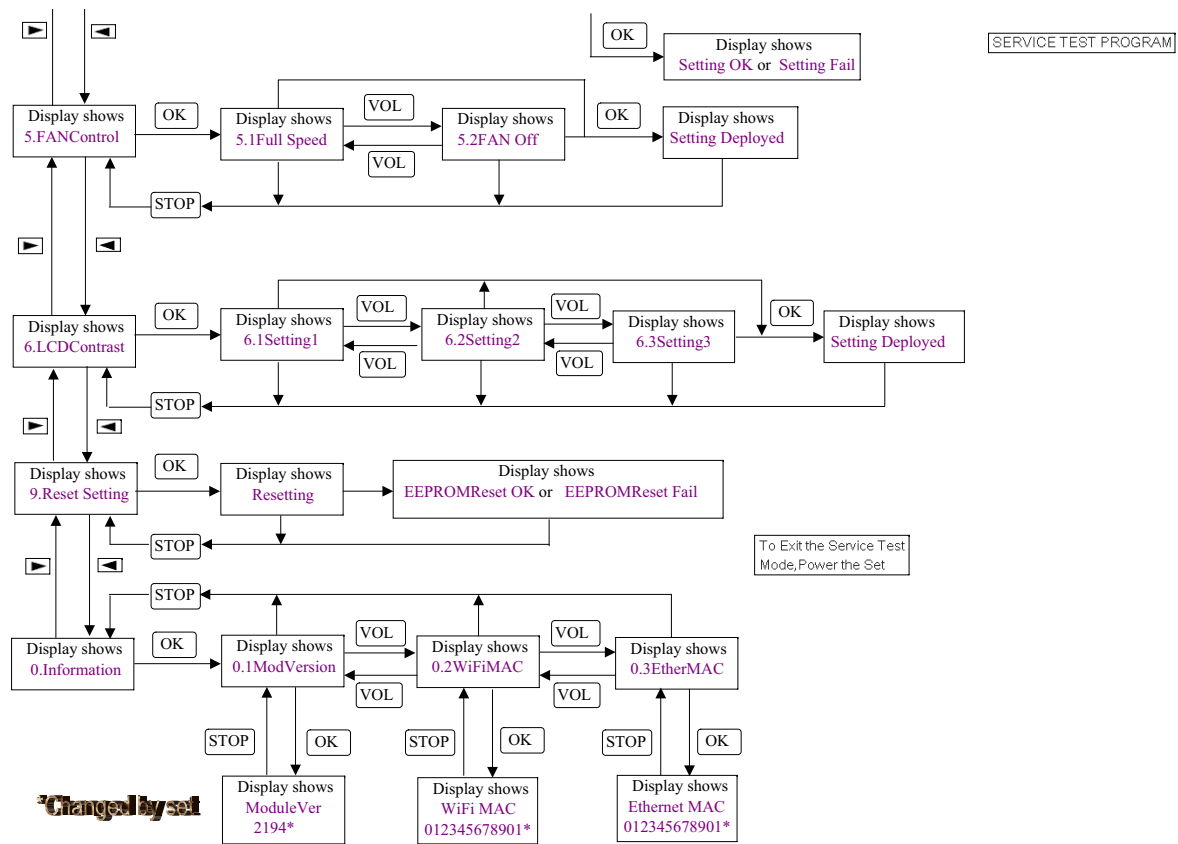
- a. remove screws T3x6 - 6 pcs. (A)
b. remove screws T3x6 - 4 pcs. (B)



SERVICE TEST PROGRAM



SERVICE TEST PROGRAM



SOFTWARE UPGRADING PROCEDURE

Software Version Verification Procedure

It is important to write down the system version information of your Center before you start the upgrade procedure. This information is also useful in case you need to call Philips Customer Care Center.

1. Press **MENU**.
2. Press **▲/▼** to select "Information". Press **OK**.
3. Press **▲/▼** to select "System". Press **OK**.
4. The software version number is shown on the display.
5. If the software version is not the latest one, you need to upgrade waC3500D.

There are 3 ways to update the software.

- A) Using CD-Rom
- B) Using WADM

A. Using CD-Rom

1. Software Upgrade Disc Preparation

Tools Required : You will need the following items :

- PC (Pentium III 300MHz processor or higher)
- CD-R/RW writer and writing application software
- Blank CD-R or CDRW disc
- Broadband / High speed internet connection

2. How to download the software to your computer

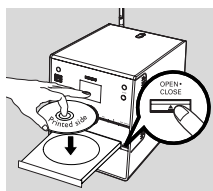
1. To download free firmware and software upgrades for your product, please login to www.club.philips.com
Download the firmware upgrade files and store them on your PC
2. Unzip the .zip file and extract files into your PC.

Note:

- Please do not rename the filename.
- If you do not have the software to open the .zip file, please visit below website to download the software.
<http://www.winzip.com/>

3. Steps to upgrade the waC3500D

1. Make sure the Audio Station has connected to the Audio Center.
2. Burn the file to blank CD-R or CDRW. Finalize the disc. (The application may do this automatically.)
3. Turn on the Audio Center and turn on the Audio Station, insert the CD to the slot loader, CD graphic printed side facing you.



4. The Audio Center will upgrade automatically.
 - The message "Updating firmware, please wait....." and the "process bar" show on the display of the Audio Center.
 - The upgrade process of the Center will reboot twice

Note: Do NOT power off the Audio Center or eject the disc at this stage.

5. It takes around 5 mins to complete the firmware upgrade for the Audio Center.

6. When done, the Audio Center will go to the HD mode automatically.

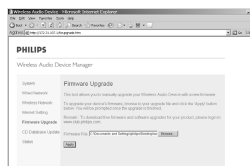
4. After the upgrade

Do confirm the software version by checking the system version.
Please follow the procedure described in the section "Software Version Verification Procedures".

B. Upgrading firmware

The supplied PC Installer CD Wireless Audio Device Manager (WADM) helps you get the upgrades for WAC3500 Center.

1. Register your Philips Wireless Music Center with www.club.philips.com
2. Download the firmware upgrade files and store them on your PC
3. Place Center on a flat and firm surface
4. Connect Center to power supply
→ HD screen appears on Center
5. Connect Center to your PC via the supplied ethernet cable.
6. Install and launch WADM (see **Connect to your PC** section B)
7. Click **Device Configuration**, and then click the **Firmware upgrade** sub-menu
8. As prompted, click **Browse** and indicate the location where you kept the firmware upgrade files on PC



9. Click **Apply** to start upgrading firmware
On Philips Wireless Music Center:
→ The display shows "Updating firmware, please wait..."
→ Center will reboot itself during the installation process
→ When Center returns to HD screen, the installation is completed

IMPORTANT!

On Philips Wireless Music Center

- Never interrupt the firmware upgrading before its completion.
- Before finishing the installation, never operate other functions.

* Hints: Restoring previous firmware

After the Center's firmware is upgraded, you can restore it to its previous version as desired.

1. Select HD mode, and then select **Restore firmware**
 - a. Press **MENU** to enter the MENU screen
 - b. Press the navigation controls **▲** or **▼** and **▶** to enter **Settings**, **Firmware** and **Restore firmware** one by one.
2. Press **▶** to select **Yes**

Helpful hint:

— After restoration to previous firmware, the set will lost Wi-Fi links to associated stations or external network.

* Reset

When to reset the Center:

- Resetting the Center helps to re-establish the Wi-Fi connection between the Center and Station.
- Change the way the Center connects to an external Wi-Fi/wired network.

1. Check that the set is switched on (see **5.Basic functions**).
2. Press **MENU** to enter the menu screen
3. Press the navigation controls **▲** or **▼** and **▶** to enter **Settings** followed by **Restore settings**



4. Press **▶** to select **Yes**
→ The set is rebooted. Language selection screen appears.
5. Select your desired language: **English**, **Français**, **Español**, **Nederlands**, **Italiano** or **Deutsch**
→ The set enters Installation Mode
→ The search for Center starts. The Wi-Fi connection is being re-established

Helpful hint:

— After restoration to default settings, the network mode will go back to Ad-Hoc mode.

— Restoring to default settings does not delete any stored music tracks

Gracenote CD Information

The Gracenote music recognition service enables the set to look up CD track information (including album, artist, genre, track information) from its built-in database. It allows the recorded CD tracks to be properly categorized (for example, under Artists, Albums, Genres or All tracks) and also be merged with the existing tracks in the hard disk.

12.1 Gracenote music recognition database

A 800 MB CD database (contains 800,000 most popular CDs) is embedded in every WAC3500 Center for quick look-up on track information. An update file that contains newly released CDs is available quarterly on www.clubphilips.com for download.

12.1.1 To update Gracenote music recognition database

- 1 Use your PC to register your product on www.clubphilips.com and go to "Show Upgrades & Support" page to download Gracenote Music recognition database update. Note that the updates are posted quarterly and each update is independent of each other, i.e. a later update could be installed without an earlier update.
- 2 After storing the file on your PC, you can either burn a CD with the update file using your favorite CD burning software and drop the CD into the WAC3500 Center for automatic update, or you can use WADM's Gracenote update option if you have connected your PC to WAC3500 Center.

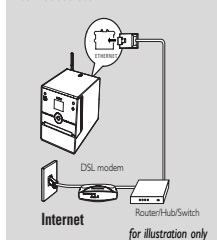
12.2 Gracenote Internet Query

If the CD track information of your new CD disc cannot be displayed on the WAC3500, the quickest and surest solution is to look it up from the internet by following steps below.

12.2.1 Connecting to the Internet

- 1 Check that you have connected the Center to an Access Point or Router with Internet access or connect the Center to an ADSL modem with Internet access directly

Connect to Internet for Gracenote Internet services



Helpful hint:

– Make sure that no did-up, user name or password is required for the Internet access.

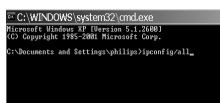
- 2 Set DNS and Gateway
 - If you are using a DHCP* enabled Access Point, Router or ADSL modem, the DNS and Gateway can be got automatically, so you need only to set the Center to Automatic (DHCP) mode by following steps below:

*DHCP stands for Dynamic Host Configuration Protocol. It is a protocol for assigning dynamic IP addresses to devices on a network.

 - a. Press **MENU**
 - b. Press **▲** or **▼** and **▶** to select **Settings**
 - c. Press **▶** to continue
 - d. Press **▲** or **▼** and **▶** to select **Automatic (DHCP)**
 - If there is no DHCP, set the DNS and Gateway manually by following steps below:

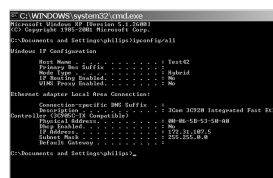
On your PC, carry out the following steps:

 - a. Click **Start > Run**



- b. Type **cmd** and click **OK**
- c. Type **ipconfig/all**

d. Write down the DNS and Gateway of the current connection



On the Center

- a. Press **MENU** to enter the menu screen
- b. Press **▲** or **▼** and **▶** to enter **Settings > Network > Internet**
- c. Press **▶** to continue
- d. Set DNS



- 1) Enter the DNS server you wrote down
- 2) Press **OK/▶** to confirm
- 3) Press **OK/▶** to skip Set DNS2

Helpful hint:

– If necessary, follow Steps 1) to 2) above to set a secondary DNS server in Set DNS2

- e. Set Gateway
- 1) Enter the Gateway you wrote down
- 2) Press **OK/▶** to confirm
- f. Set proxy

If you are using a proxy server to visit websites, enable Proxy and proceed with the proxy setting as prompted, then press **OK/▶** to confirm

Otherwise, press **OK/▶** to skip

- 3 Choose to apply the settings as prompted
→ Settings will change. **Connection to station could be lost** appears.

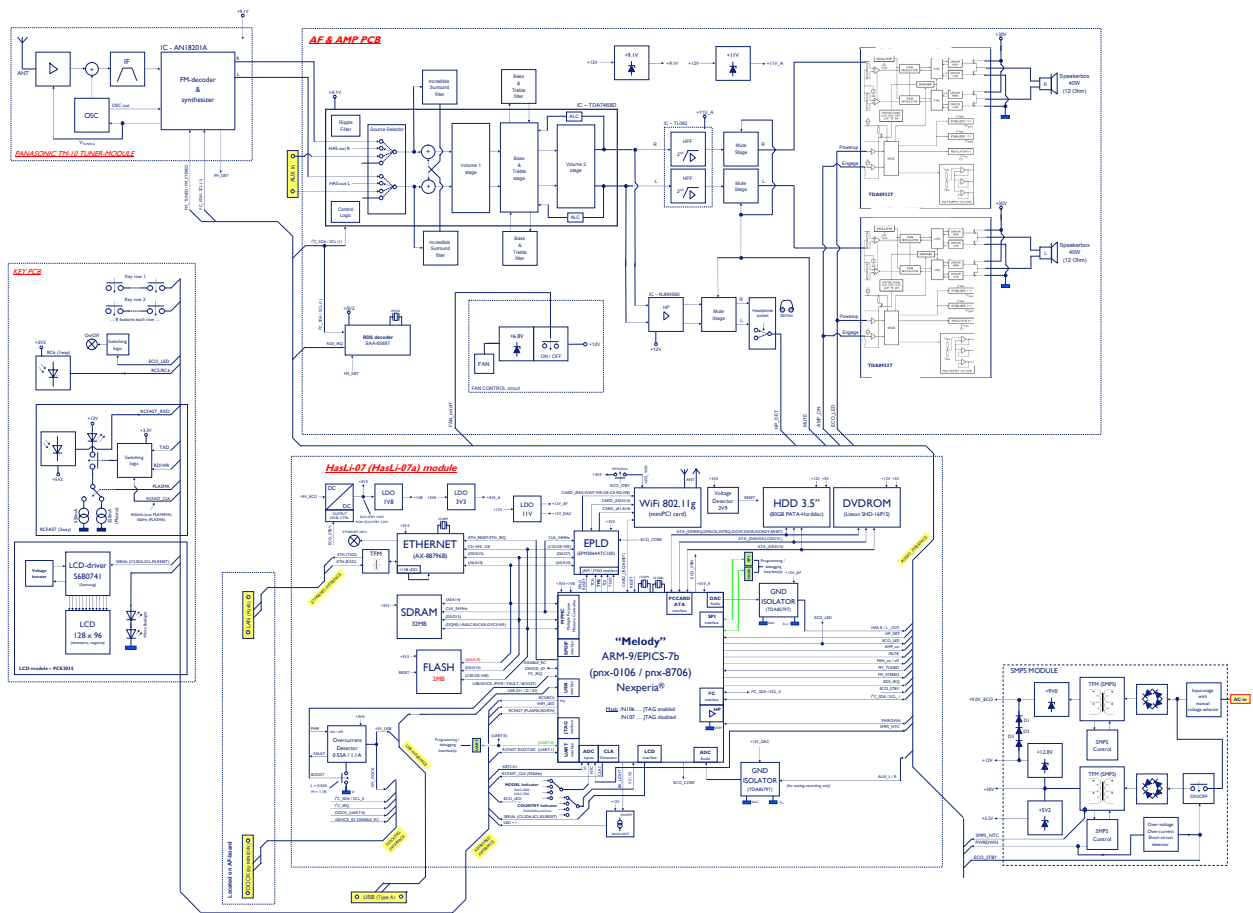
12.2.2 Looking up CD track information

When the internet connection is made, insert the CD disc that you want to look for its information into the CD loader on the Center. Searching start immediately. It will search from local Gracenote CD database firstly. If can't find the CD track information, online searching will then start. The searching results will be shown on the Center's display.

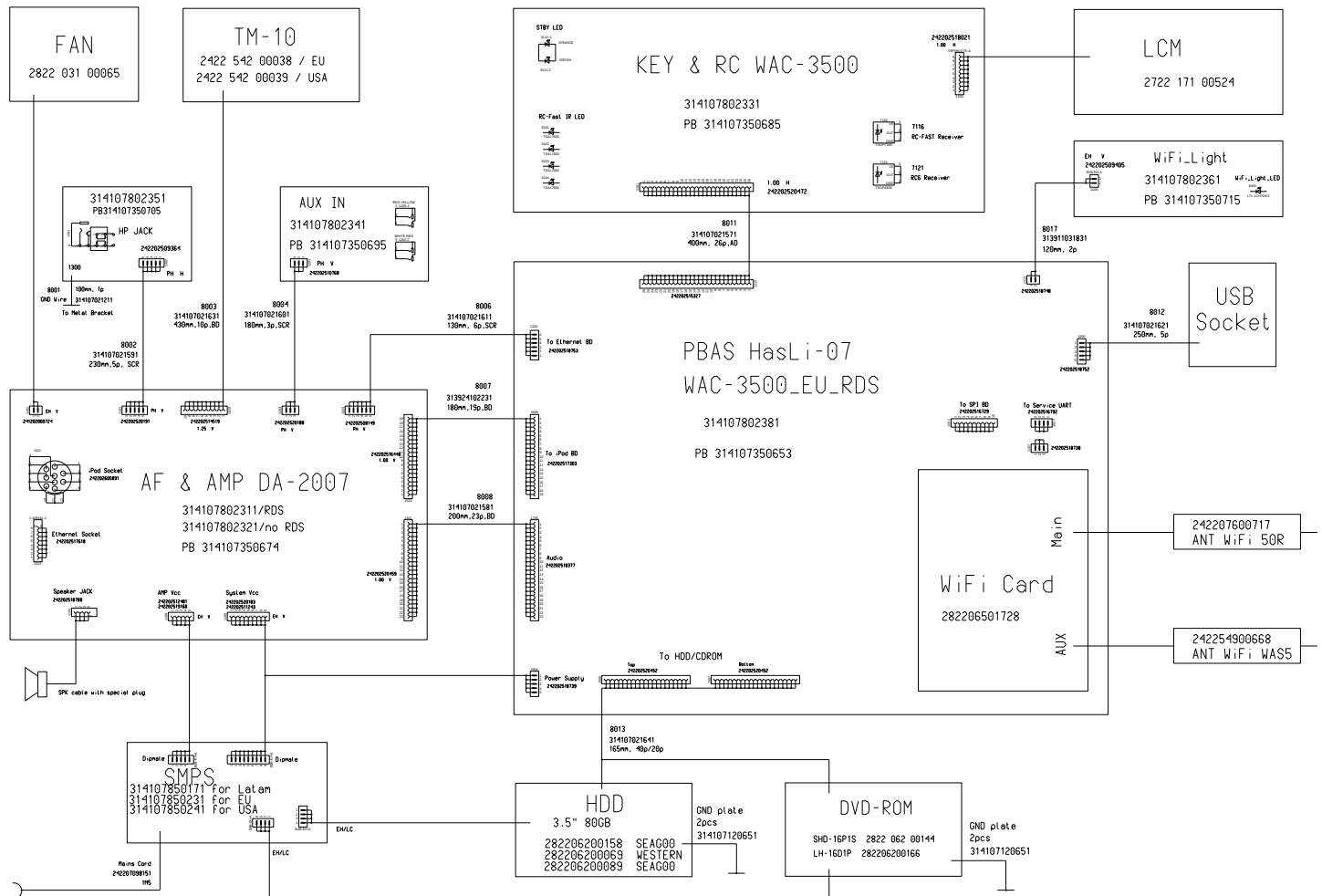
Helpful hint:

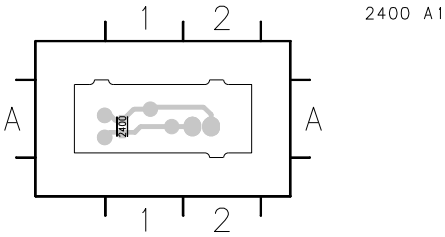
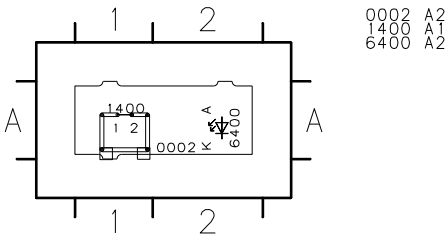
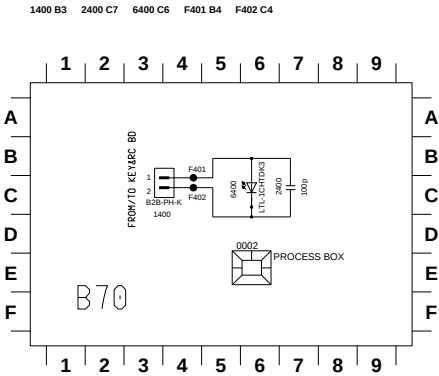
If the internet query failed due to failure in internet connection, the error message "Check the internet setup for Gracenote online" will appear. Check if your internet connection is correct (see 12.2.1 above)

SET BLOCK DIAGRAM

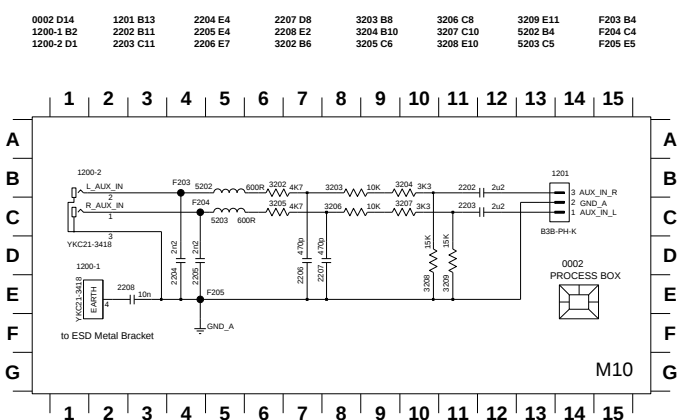


SET WIRING DIAGRAM

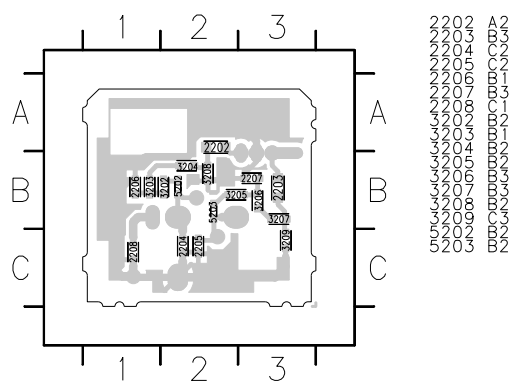
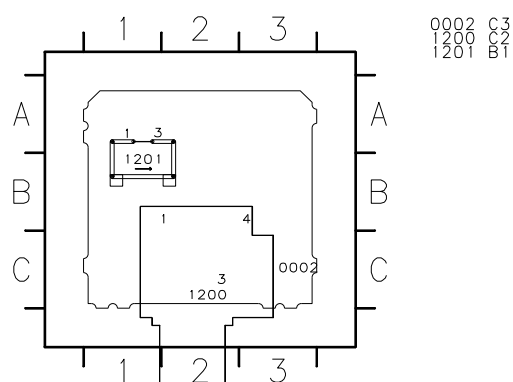




Circuit Diagram

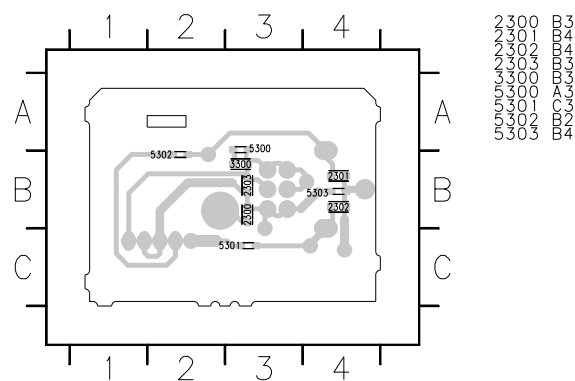
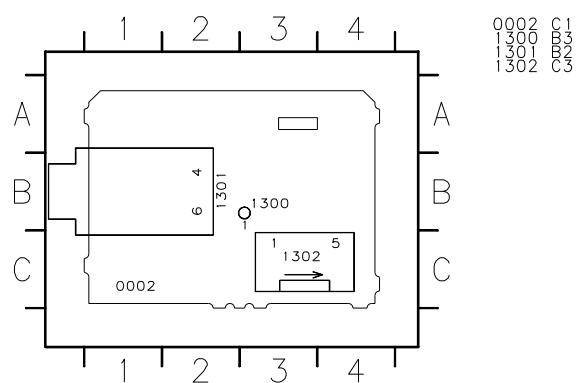
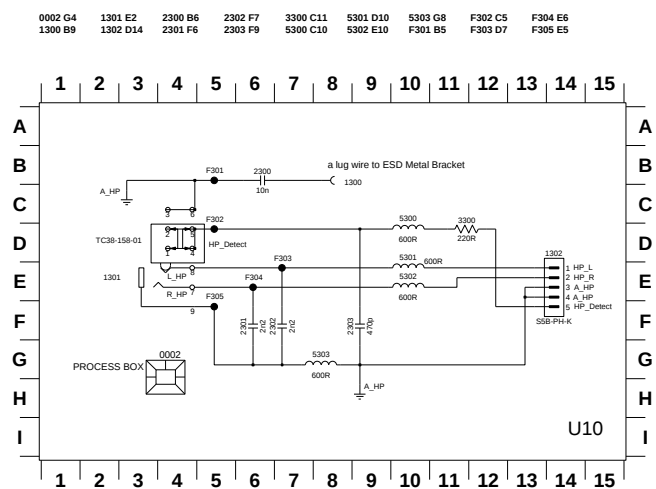


Layout Diagram

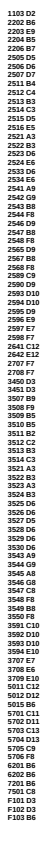


PB-Headphone

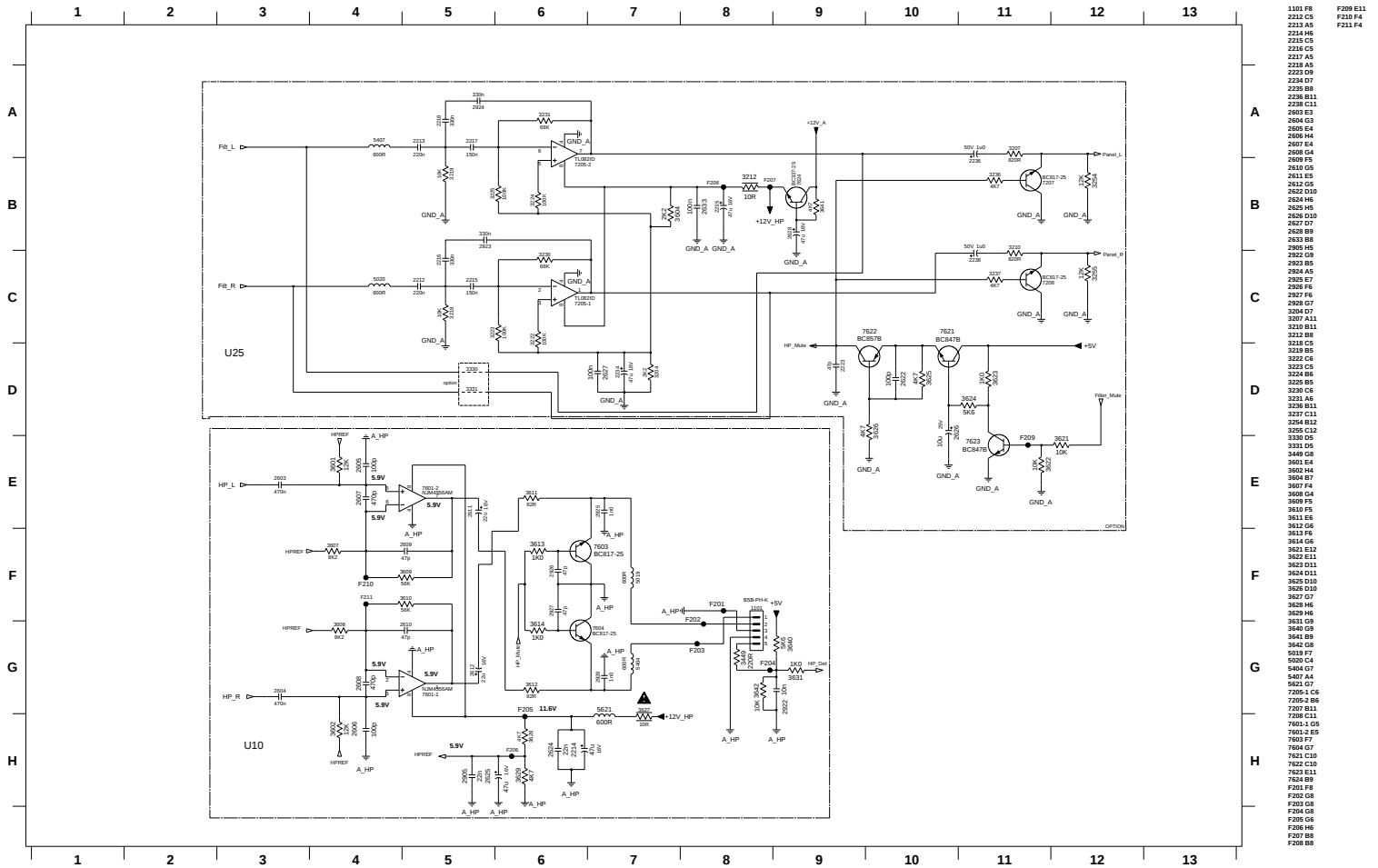
8 - 3



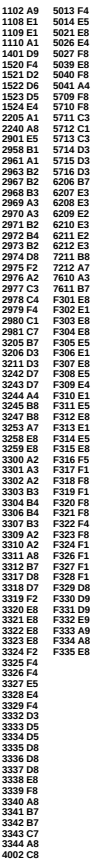
1 2 3



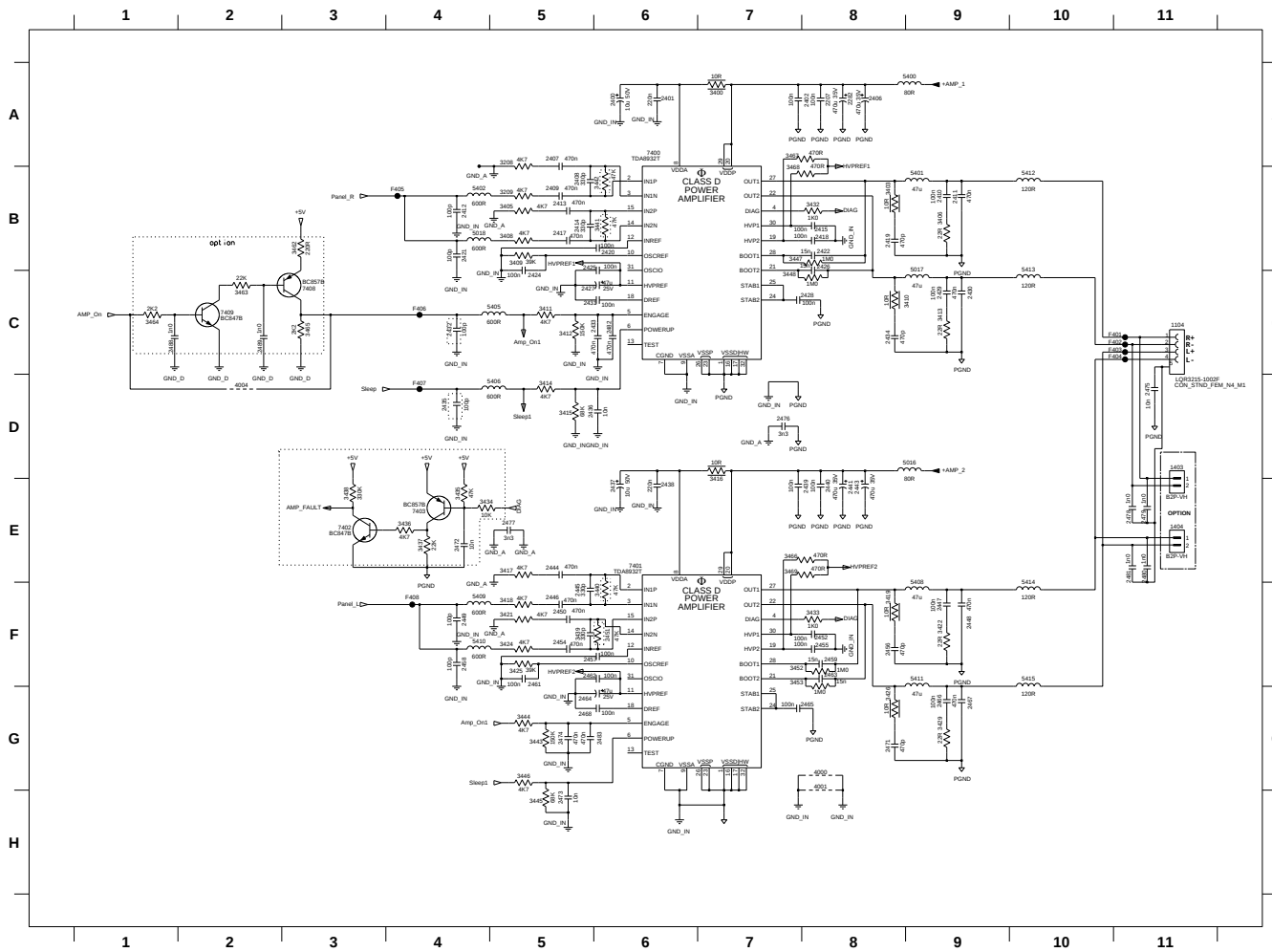
PB-AF&AMP - Circuit Diagram (Part2)



1 2

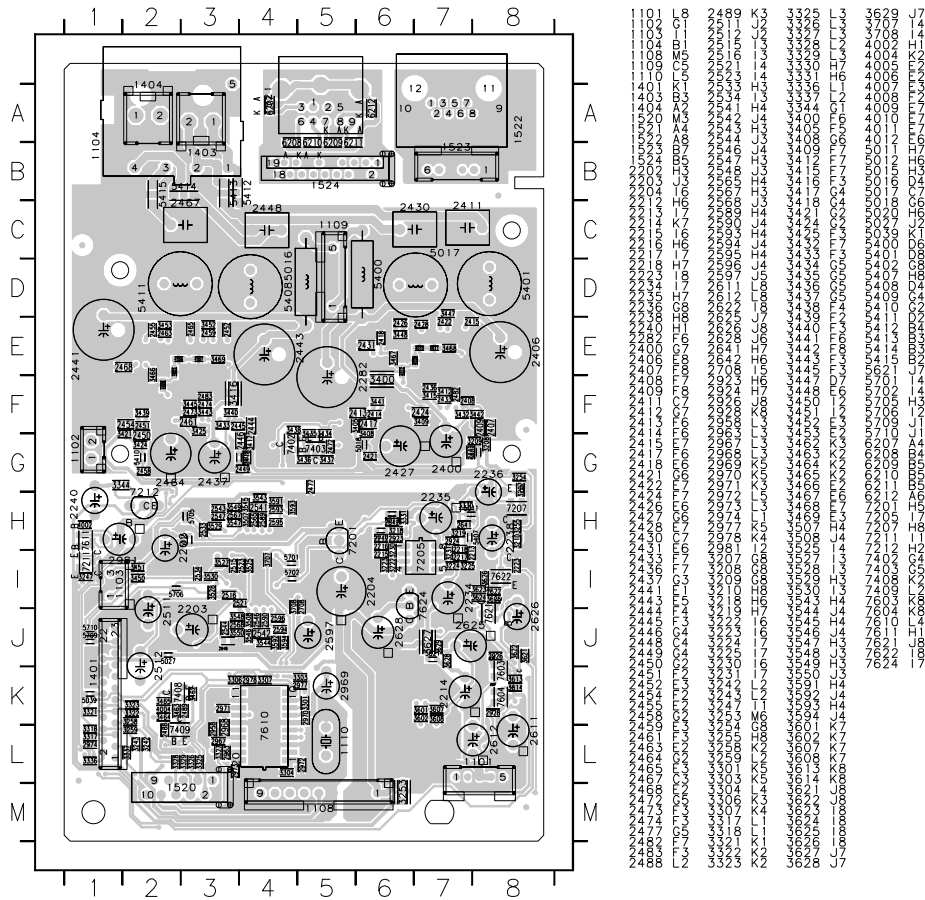


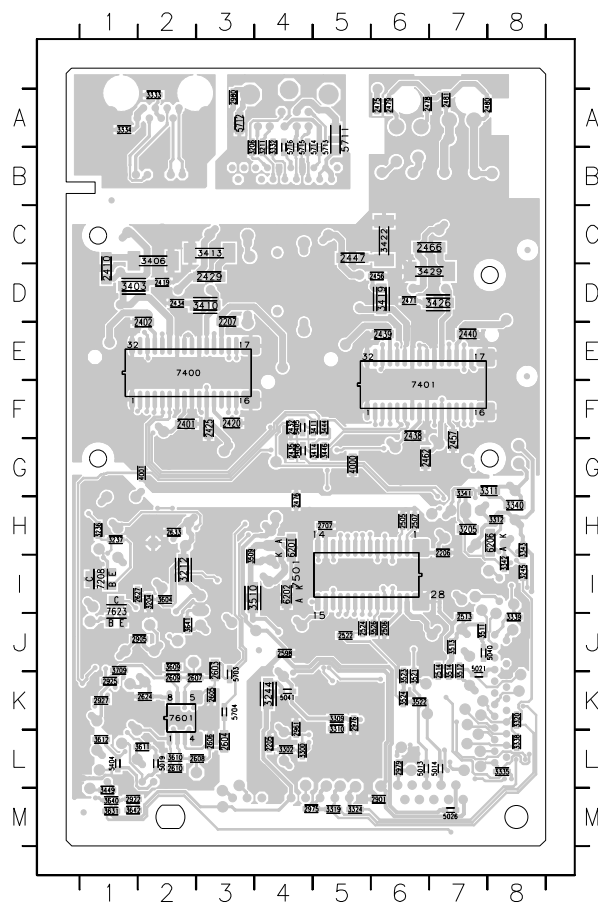
PB-AF&AMP - Circuit Diagram (Part4)



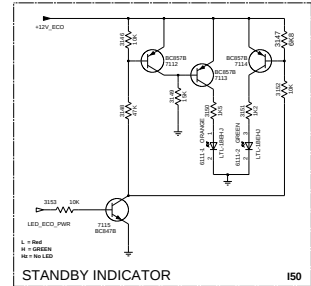
1104 C11 3426 G8
1403 D11 3429 G8
1404 E11 3432 B8
2207 A8 3433 F8
2282 A8 3434 E4
2400 A6 3435 E4
2401 A6 3436 E4
2402 A8 3437 E4
2406 A6 3438 E3
2407 A5 3439 F5
2408 B5 3440 F6
2409 B5 3441 B6
2410 B9 3442 B6
2411 B9 3443 G5
2412 B4 3444 G5
2413 B5 3445 H5
2414 B5 3446 G5
2415 B8 3447 B7
2417 B5 3448 C7
2418 B8 3449 F7
2419 B8 3450 F7
2420 B6 3451 B3
2421 B4 3452 C2
2422 B8 3453 C1
2424 C5 3454 C3
2425 B5 3455 E7
2426 B8 3456 A7
2427 C5 3457 A7
2428 C8 3458 E7
2429 C9 4000 G8
2430 C9 4001 G8
2431 C5 4004 D2
2432 C4 5016 D9
2433 C6 5017 C9
2434 C8 5018 B4
2435 D4 5019 A9
2436 D5 5020 B9
2437 E6 5021 B4
2438 E6 5022 C5
2439 E6 5023 C5
2440 E8 5024 F9
2441 E8 5025 F4
2442 E8 5026 F4
2443 E8 5027 F4
2444 E5 5028 F9
2445 F5 5029 F9
2446 F5 5030 F9
2447 F9 5031 F9
2448 F9 5032 F9
2449 F4 7400 A6
2450 F5 7401 E6
2451 F6 7402 E3
2452 F6 7403 B4
2453 F6 7404 C3
2454 F5 7405 C3
2455 F8 7406 C2
2456 F8 F401 C11
2457 F5 F402 C11
2458 F4 F403 C11
2459 F8 F404 C11
2460 F5 F405 B4
2461 F5 F406 C4
2462 F5 F407 D4
2463 F8 F408 F4
2464 C5
2465 G8
2466 G8
2467 G8
2468 G8
2471 G8
2472 E4
2473 H5
2474 G5
2475 D11
2476 D7
2477 E5
2478 E11
2479 E11
2480 E11
2481 E11
2482 C6
2483 G6
2488 C1
2489 C2
3208 A5
3209 B5
3400 A7
3403 B8
3405 B5
3406 B5
3408 B5
3409 B5
3410 C8
3411 C5
3412 C5
3413 C9
3414 D5
3415 D5
3416 D7
3417 E5
3418 F5
3419 F8
3421 F5
3422 F9
3424 F5
3425 F5

PB-AF&AMP - Layout Diagram (SideA)



[illegible]

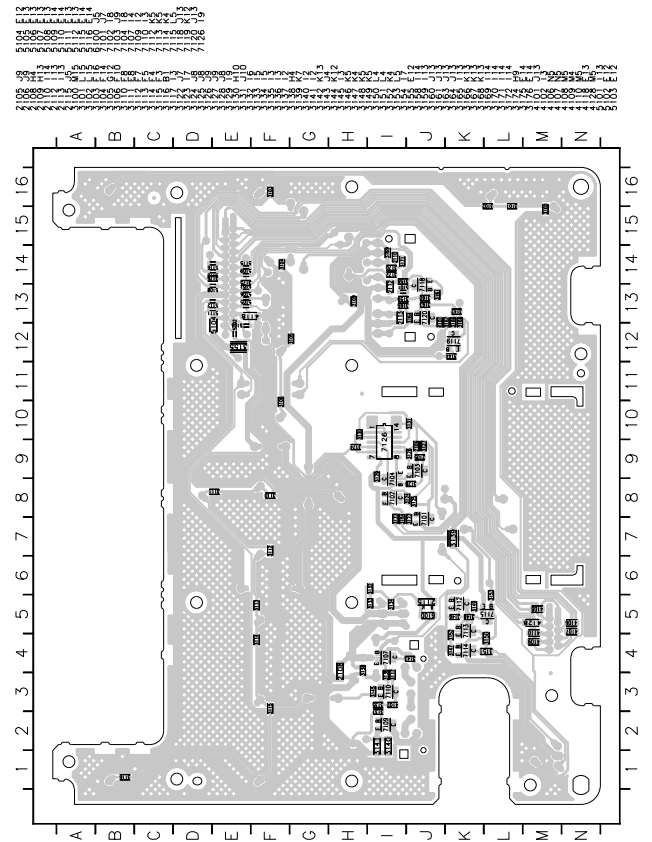
1 2 3 4 5 6 7 8 9 10 11 12 13

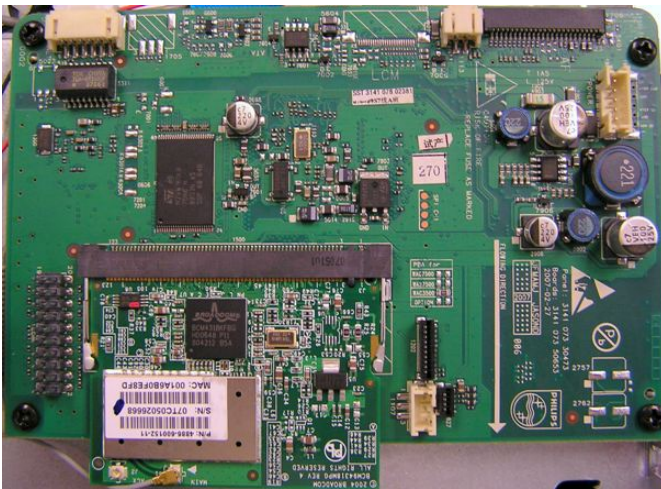


0003 F6	S112 E2
0004 F6	S113 F2
0005 F6	S114 F2
0006 C12	S116 F2
0007 F6	S117 F2
1101 G1	G101 F13
1102 G1	G102 F13
1103 G1	G103 C13
1112 G4	G104 C13
1113 G4	G111-11 H2
1114 F6	S111-11 H2
1115 G5	7100 F7
1116 G5	7101 F7
1117 G5	7102 F7
1118 G5	7104 C9
1119 G5	7105 C9
1120 G4	7106 A12
1121 G4	7107 C12
1122 A4	7109 D13
1123 A4	7110 D12
1124 A4	7112 D12
1125 G4	7113 D12
1126 G4	7114 D13
2106 C18	7115 F11
2107 C18	7116 D13
2108 F13	7117 F06
2109 F13	7118 F07
2110 C13	7119 C12
2111 C13	7120 C12
2112 F07	7121 C12
2113 F07	7122 C12
2115 F12	7125-1150
2116 F12	7126-1150
3001 G4	7126-1150 C1
3002 G4	F101 C12
3003 G4	F102 C12
3004 A4	F106 F13
3005 A4	F107 F13
3006 A4	F110 F11
3007 A4	F111 F11
3008 A4	F112 F11
3009 A4	F113 F12
3010 A4	F114 F12
3011 A4	F117 F12
3012 A4	F118 F12
3013 A4	F119 F12
3014 A4	F120 F12
3015 A4	F121 F12
3016 A4	F122 F12
3017 A4	F123 F12
3018 A4	F124 F12
3019 A4	F125 F12
3020 A4	F126 F12
3021 A4	F127 F12
3022 A4	F128 F12
3023 A4	F129 F12
3024 A4	F130 F12
3025 A4	F131 F12
3026 A4	F132 F12
3027 A4	F133 F12
3028 A4	F134 F12
3029 A4	F135 F12
3030 A4	F136 F12
3031 A4	F137 F12
3032 A4	F138 F12
3033 A4	F139 F12
3034 A4	F140 F12
3035 A4	F141 F12
3036 A4	F142 F12
3037 A4	F143 F12
3038 A4	F144 F12
3039 A4	F145 F12
3040 A4	F146 F12
3041 A4	F147 F12
3042 A4	F148 F12
3043 A4	F149 F12
3044 A4	F150 F12
3045 A4	F151 F12
3046 A4	F152 F12
3047 A4	F153 F12
3048 A4	F154 F12
3049 E2	F155 F12
3050 A12	F156 F12
3051 A12	F157 F12
3052 F13	F158 F12
3053 F13	F159 F12
3054 G13	F160 F12
3055 A13	F161 F12
3056 F13	F162 F12
3057 F13	F163 F12
3058 F7	F164 F7
3059 F7	F165 F7
3060 F8	F166 F8
3061 F8	F167 F8
3062 F8	F168 F8
3063 F8	F169 F8
3064 F8	F170 F8
3065 F8	F171 F8
3066 F8	F172 F8
3067 F8	F173 F8
3068 F8	F174 F8
3069 F8	F175 F8
3070 F8	F176 F8
3071 F8	F177 F8
3072 F4	F178 F4
3073 F4	F179 F4
3074 F4	F180 F4
3075 E2	F181 E2
3076 E2	F182 E2
4001 D12	F183 D12
5001 C4	F184 C4
5002 E2	F185 E2
5003 E2	F186 E2
5004 E2	F187 E2
5005 E2	F188 E2
5006 E2	F189 E2
5007 E2	F190 E2
5008 E2	F191 E2
5009 E2	F192 E2
5010 E2	F193 E2
5011 E2	F194 E2
5012 E2	F195 E2
5013 E2	F196 E2
5014 E2	F197 E2
5015 E2	F198 E2
5016 E2	F199 E2
5017 E2	F200 E2
5018 E2	F201 E2
5019 E2	F202 E2
5020 E2	F203 E2
5021 E2	F204 E2
5022 E2	F205 E2
5023 E2	F206 E2
5024 E2	F207 E2
5025 E2	F208 E2
5026 E2	F209 E2
5027 E2	F210 E2
5028 E2	F211 E2
5029 E2	F212 E2
5030 E2	F213 E2
5031 E2	F214 E2
5032 E2	F215 E2
5033 E2	F216 E2
5034 E2	F217 E2
5035 E2	F218 E2
5036 E2	F219 E2
5037 E2	F220 E2
5038 E2	F221 E2
5039 E2	F222 E2
5040 E2	F223 E2
5041 E2	F224 E2
5042 E2	F225 E2

0002

PROCESS





HAS MODULE

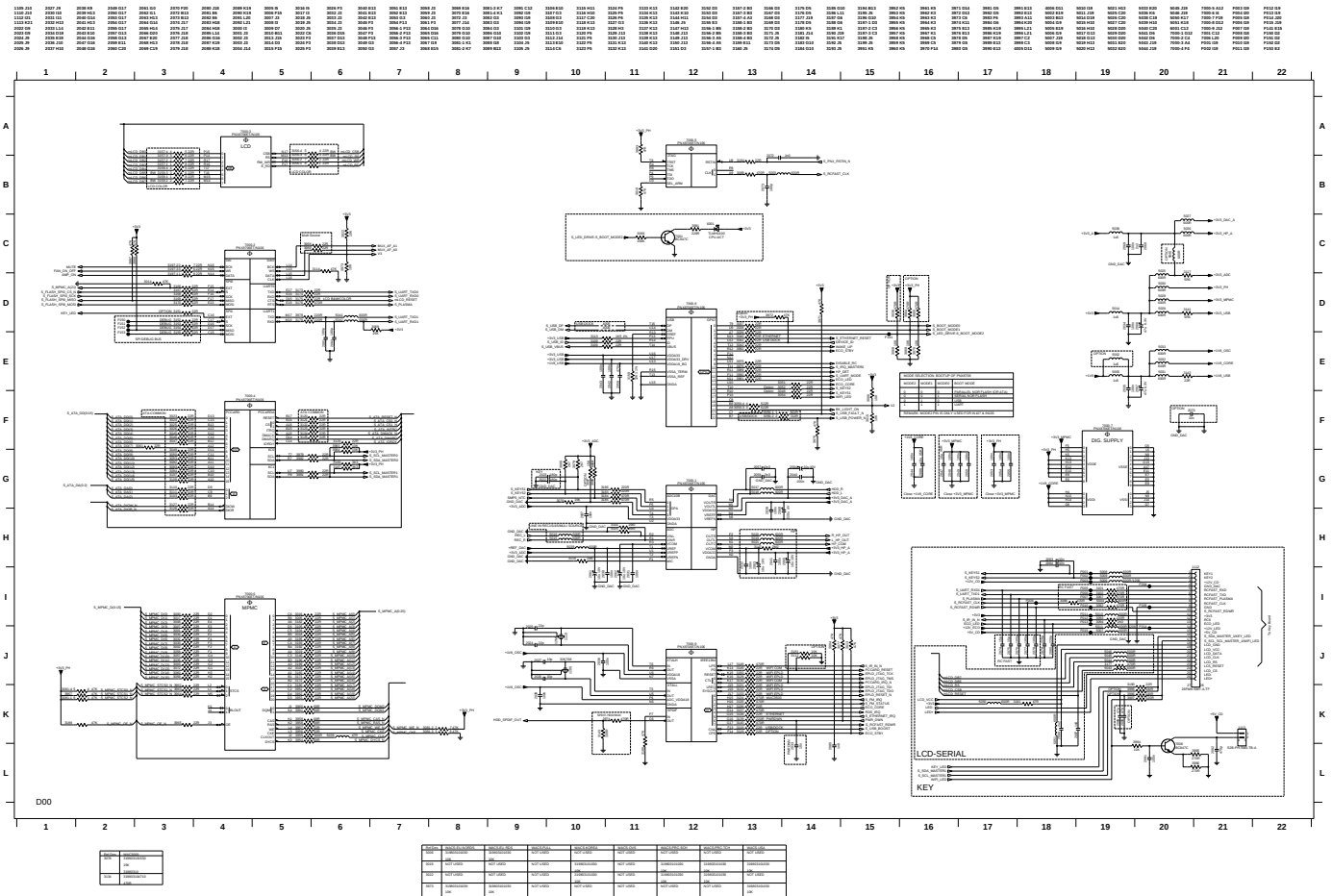
This module can only be repaired on component level
at authorized service workshop.

In case of defects please replace the entire board resp. the WiFi Card.

3141 078 02381HAS Printed Board Assembly - Europe

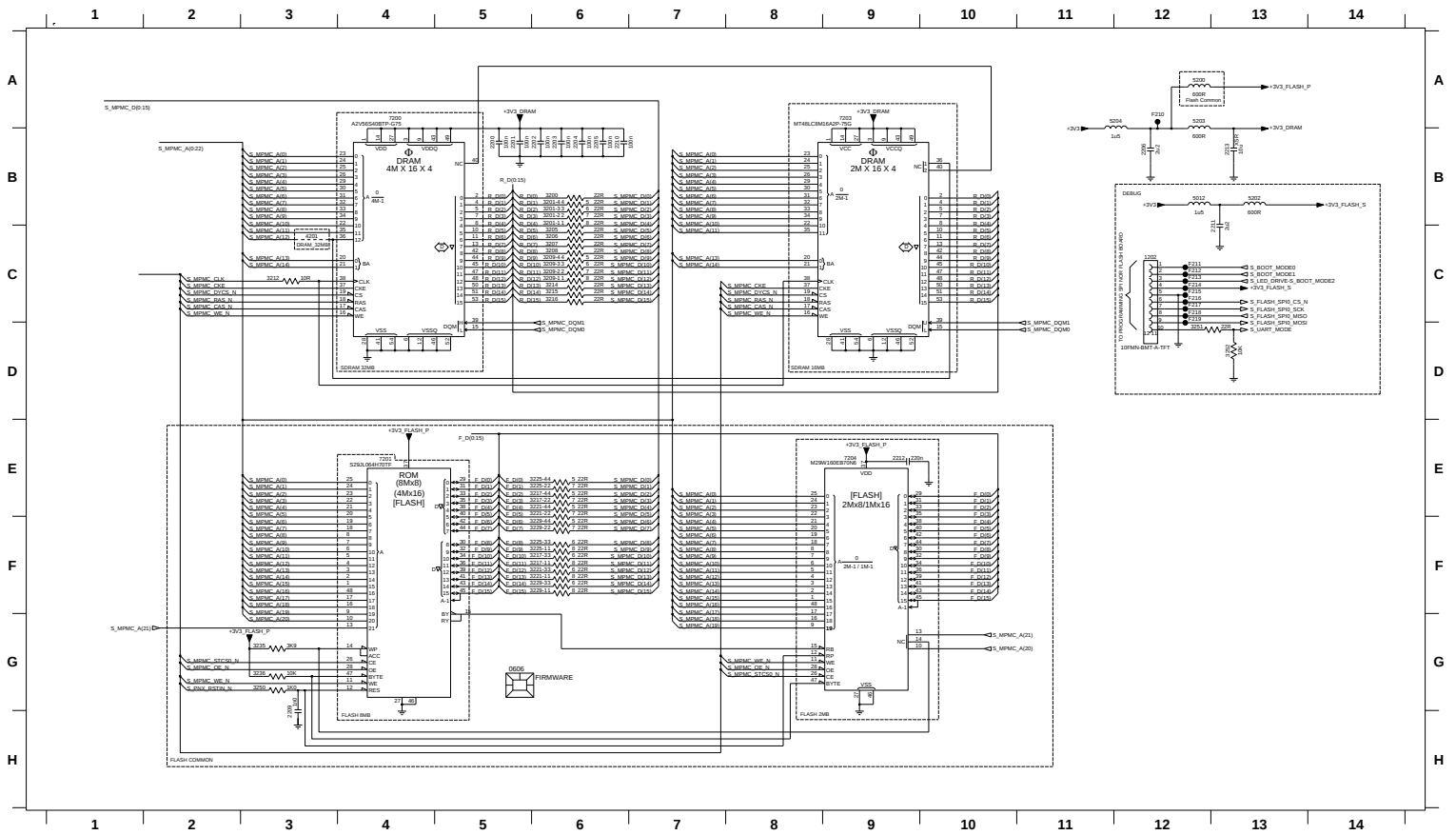
2822 065 01728WiFi Card Mini PCI

CIRCUIT DIAGRAM - Part 1 (MELODY)



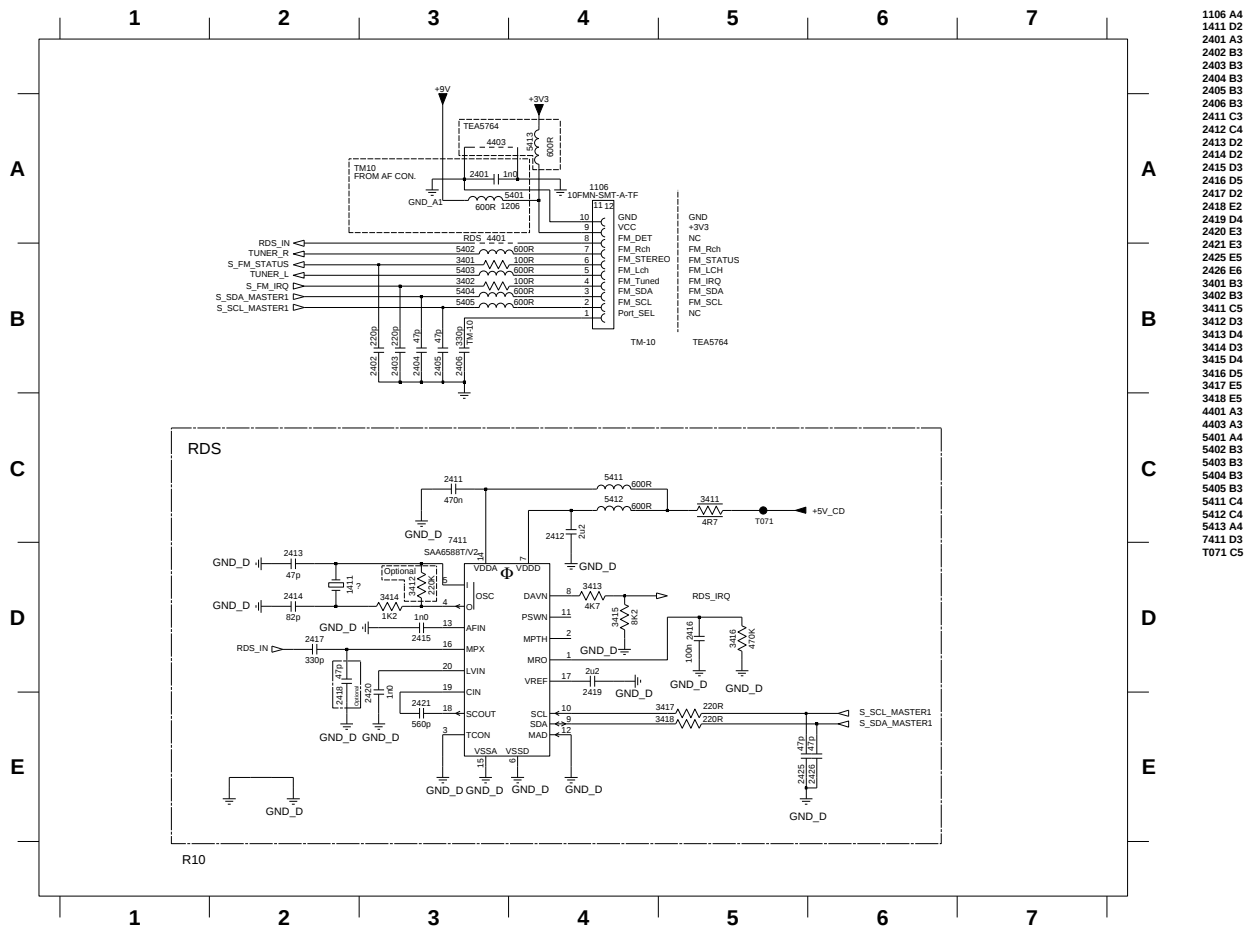
CIRCUIT DIAGRAM - Part 2 (FLASH & SDRAM)

0606 C5 2201 B5 2204 B6 2209 H3 2212 E9 3201-1 B6 3201-4 B6 3207 C6 3209-3 C6 3212 C3 3216 C6 3217-3 F6 3221-2 E6 3225-1 F6 3225-4 E6 3229-3 F6 3236 G3 3252 D13 3260 A12 3264 A12 7203 A9 F211 C12 F214 C12 F217 C12
 1202 C12 2202 B6 2205 B6 2210 B6 2211 B13 3201-2 B6 3206 C6 3209-2 C6 3214 C6 3217-4 F6 3221-4 F6 3225-2 E6 3229-4 F6 3236 G3 4201 C3 5202 B13 7200 A4 7204 B9 F212 C12 F215 C12 F218 C12
 2200 B5 2203 B6 2206 B12 2211 C13 3200 B6 3201-3 B6 3206 C6 3209-1 C6 3209-4 C6 3215 C6 3217-2 E6 3221-1 F6 3225-3 F6 3229-2 F6 3235 G3 3251 D12 5012 B12 5203 A12 7201 E4 F210 A12 F213 C12 F216 C12 F219 C12



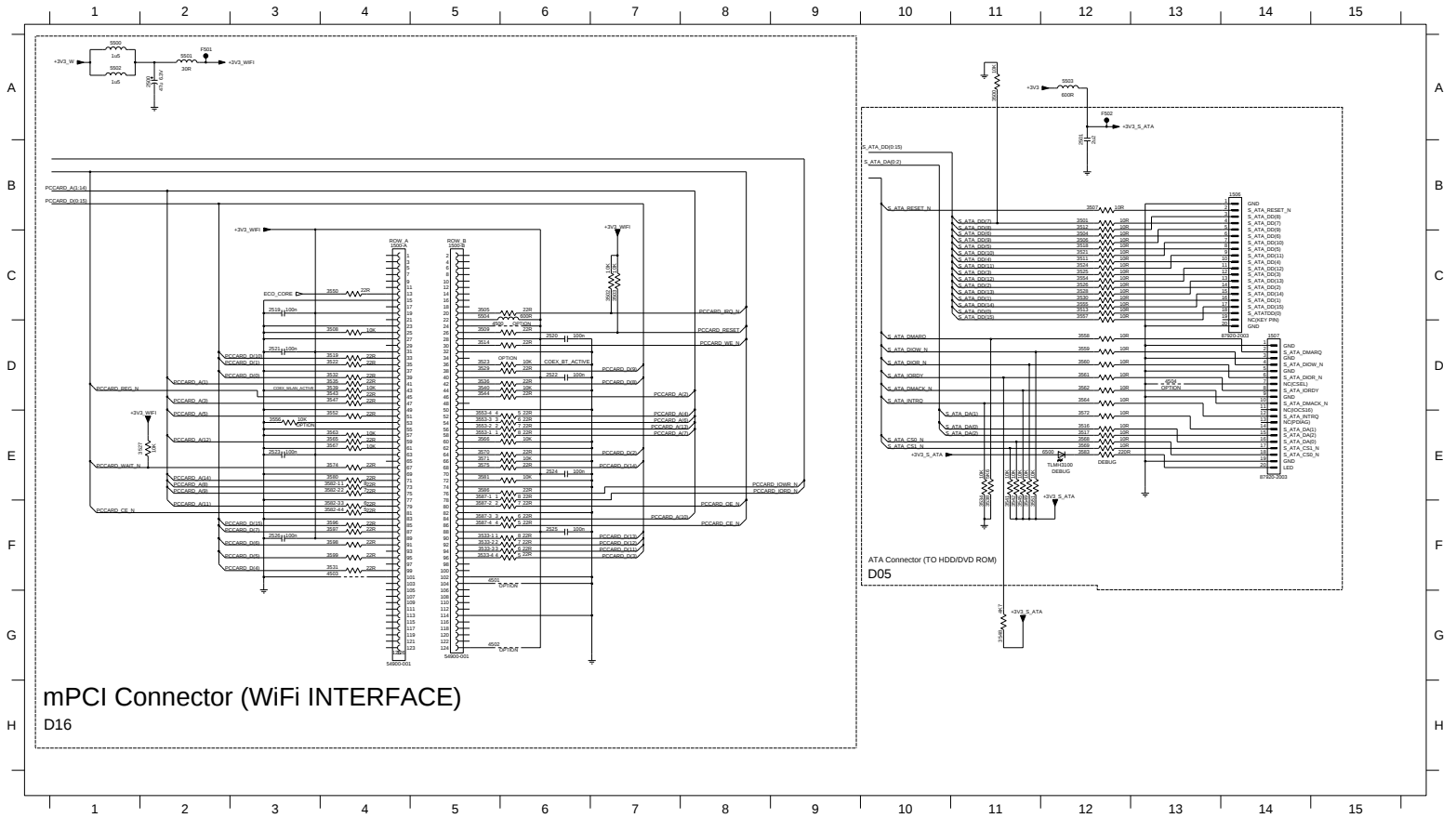
[illegible][illegible]

CIRCUIT DIAGRAM - Part 4 (TUNER)

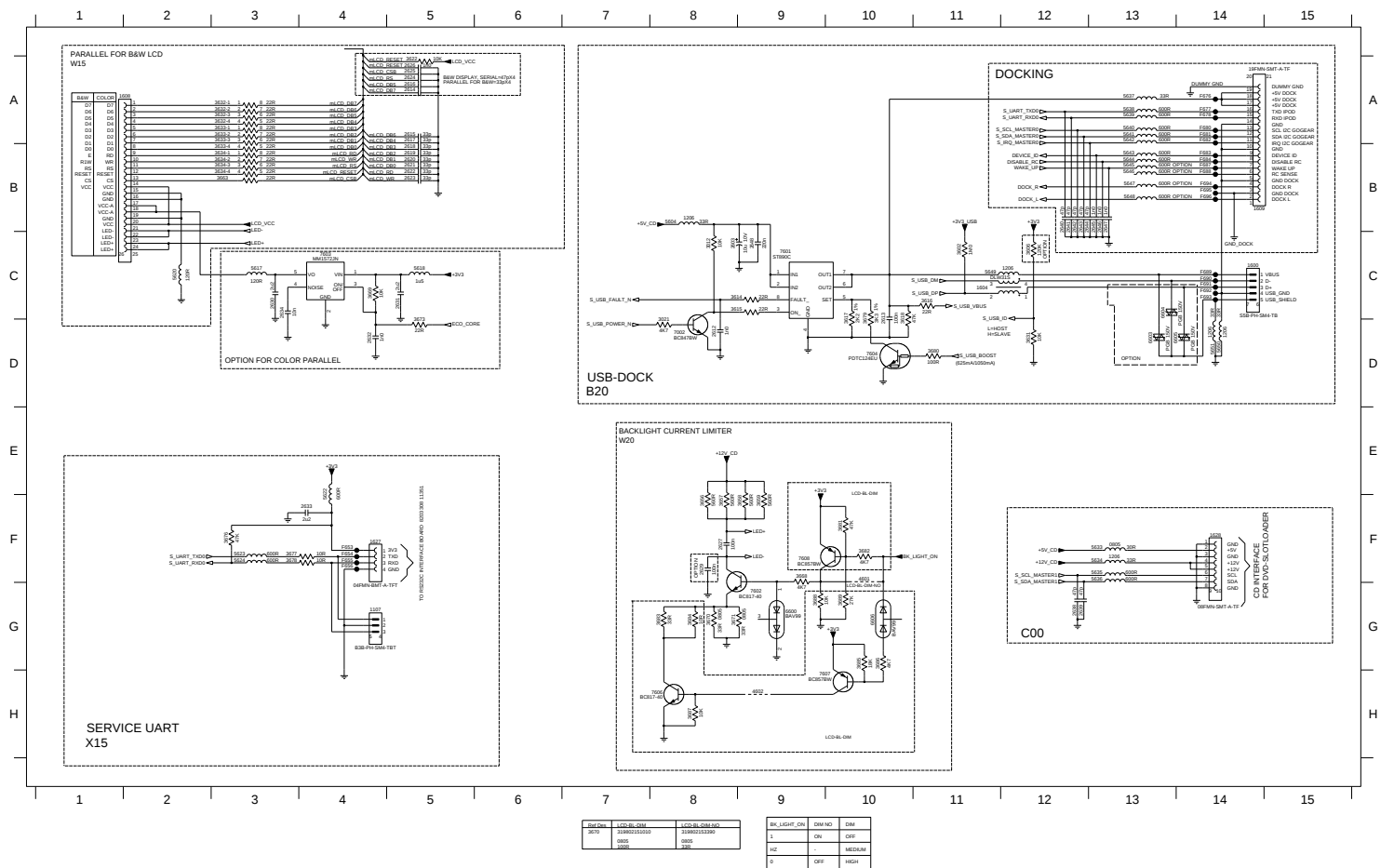


CIRCUIT DIAGRAM - Part 5 (mPCI & ATA Connector)

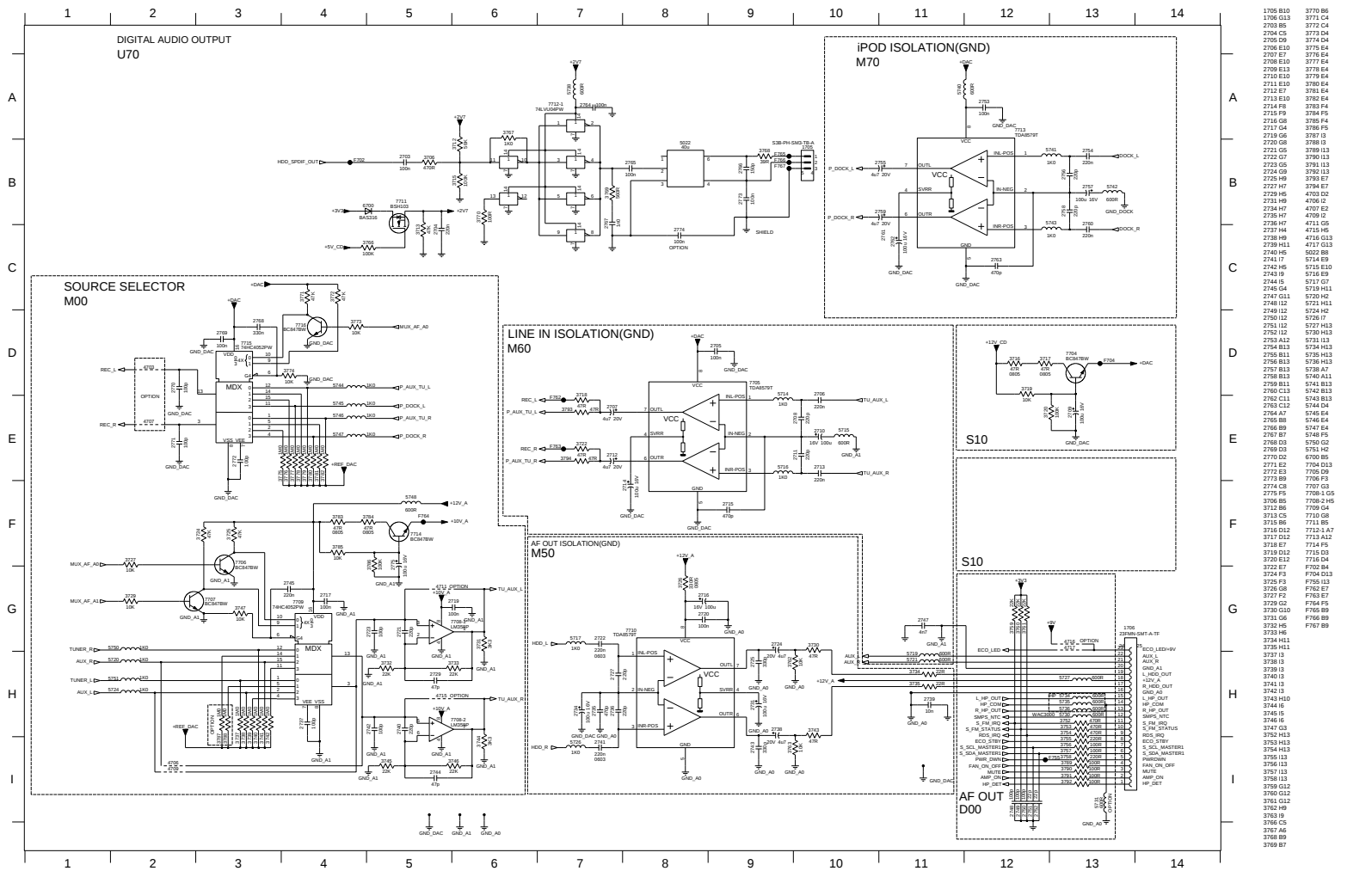
1506-A C4 2500-A2 2521-D3 2525-F6 3502-C7 3506-C12 3511-C12 3516-E12 3521-C12 3525-C12 3529-D5 3533-1 F5 3534-F11 3539-D4 3543-D4 3548-G11 3552-E4 3553-4 E5 3557-C12 3561-D12 3566-E4 3569-E12 3574-E4 3582-1 E4 3583-E12 3587-3 F5 3598-F4 4502-G5 5501-A2 6500-E12
 1506-B C5 2501-A12 2522-D6 2526-F9 3503-C7 3507-E12 3512-E12 3517-E12 3522-D4 3526-C12 3530-C12 3533-2 F5 3535-D4 3540-D5 3544-D6 3549-F11 3553-1 E5 3554-C12 3558-D12 3562-D12 3566-E5 3570-E5 3574-E5 3582-2 E4 3586-E5 3587-4 F5 3599-F4 4503-F4 5502-A1 5502-A2 5502-A2
 1506-B14 2519-C3 2523-E3 3500-A11 3504-C12 3508-D4 3513-C12 3518-C12 3523-D6 3527-E2 3531-F4 3533-3 F5 3536-D5 3541-F11 3545-F11 3550-C4 3553-2 E5 3555-C12 3559-D12 3563-E4 3567-E4 3571-E5 3580-E4 3582-3 F4 3587-1 E5 3596-F4 4500-D5 4504-D13 5503-A12 5503-A12
 1507-D14 2529-D6 2534-E5 3501-E12 3505-C5 3509-D5 3514-D5 3519-D4 3524-C12 3528-C12 3532-D4 3533-4 F5 3536-F11 3542-F11 3547-D4 3551-F11 3553-3 E5 3556-E3 3560-D12 3564-D12 3568-E12 3572-E12 3581-E5 3582-4 F4 3587-2 F5 3597-F4 4501-F5 5500-A1 5504-C5



1607 G4	1627 F4	2615 A6	2619 B5	2624 A6	2620 C3	2638 D12	2643 B12	2648 C9	3654 C8	3622 A5	3632 A-3	3634 B-3	3657 F8	3669 C4	3677 F3	3683 F8	3687 F8	3694 B8	3623 F3	3636 F3	3641 A3	3648 B3	3651 D4	3656 D4	3662 F4	F68 A4	F68 B4	F68 C4	F68 B14
1608 G4	1634 F4	2615 A6	2620 B5	2625 A5	2631 C5	2642 D12	2648 B12	3658 C8	3622 A5	3632 A-3	3634 B-3	3657 F8	3669 C4	3677 F3	3683 F8	3687 F8	3694 B8	3623 F3	3636 F3	3641 A3	3648 B3	3651 D4	3656 D4	3662 F4	F68 A4	F68 B4	F68 C4	F68 B14	
1609 C11	2603 C8	2615 A6	2620 B5	2625 A5	2632 D4	2642 B12	2649 B12	3621 D8	3636 C11	3632 A-3	3634 B-3	3657 F8	3669 C4	3677 F3	3683 F8	3687 F8	3694 B8	3623 F3	3636 F3	3641 A3	3648 B3	3651 D4	3656 D4	3662 F4	F68 A4	F68 B4	F68 C4	F68 B14	
1610 G4	2603 C8	2615 A6	2620 B5	2625 A5	2632 D4	2642 B12	2649 B12	3621 D8	3636 C11	3632 A-3	3634 B-3	3657 F8	3669 C4	3677 F3	3683 F8	3687 F8	3694 B8	3623 F3	3636 F3	3641 A3	3648 B3	3651 D4	3656 D4	3662 F4	F68 A4	F68 B4	F68 C4	F68 B14	
1611 C11	2613 C10	2619 B5	2625 B7	2629 F8	2634 C4	2642 B12	2647 B13	3621 D8	3636 C11	3632 A-3	3634 B-3	3657 F8	3669 C4	3677 F3	3683 F8	3687 F8	3694 B8	3623 F3	3636 F3	3641 A3	3648 B3	3651 D4	3656 D4	3662 F4	F68 A4	F68 B4	F68 C4	F68 B14	



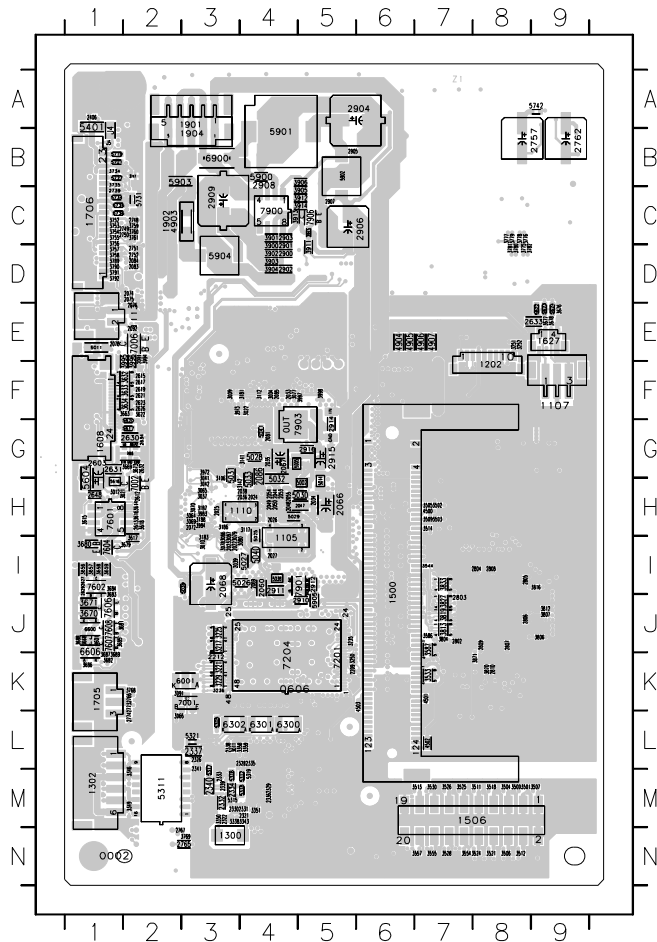
CIRCUIT DIAGRAM - Part 7 (AF Part)



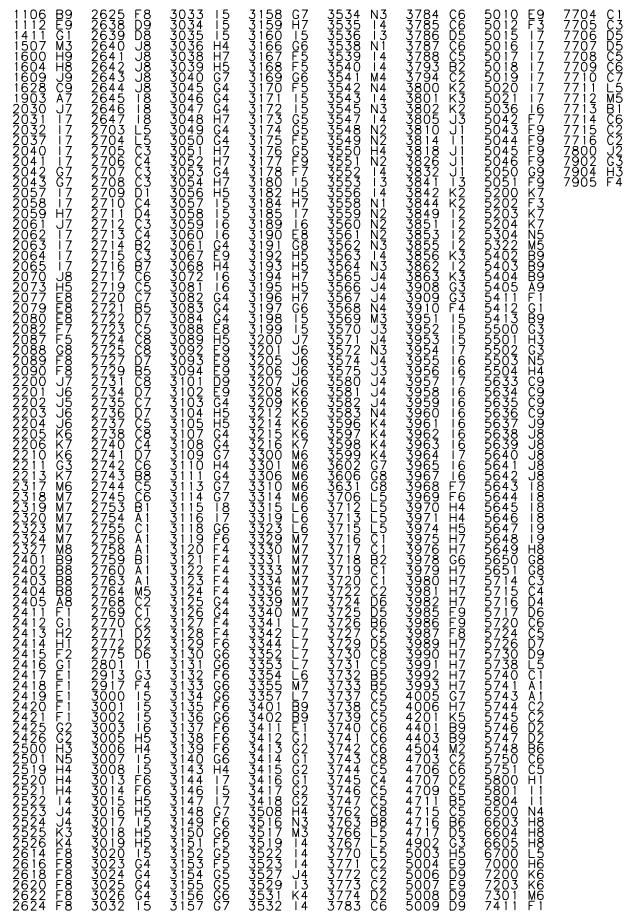
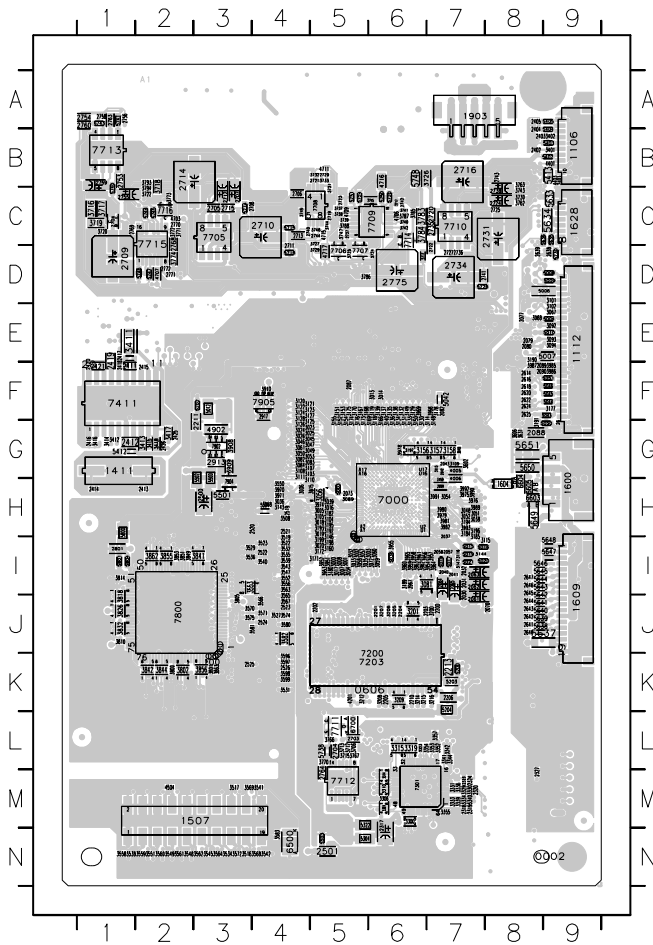
1705 B10	3770 B6
1706 G13	3771 C4
2703 B6	3772 C4
2704 C5	3773 D4
2705 D9	3774 D4
2706 E10	3775 E4
2707 E7	3776 E4
2708 E10	3777 E4
2709 E13	3778 E4
2710 E10	3779 E4
2711 E10	3780 E4
2712 E7	3781 E4
2713 E10	3782 E4
2714 F8	3783 F4
2715 F9	3784 F5
2716 G8	3785 F4
2717 G4	3786 F5
2718 G6	3787 I3
2719 G8	3788 I3
2720 G8	3789 I3
2721 G5	3790 I3
2722 I7	3791 I3
2723 G5	3792 I3
2724 G8	3793 E7
2725 G5	3794 E7
2726 H6	4703 I2
2727 H7	4703 I2
2728 H6	4704 I2
2729 H7	4707 E2
2730 H7	4709 I2
2731 H6	4711 G5
2732 H7	4715 G13
2733 H4	4717 G13
2734 H5	4718 I3
2735 H4	4719 I3
2736 H5	4720 I3
2737 H4	4721 I3
2738 H5	4722 I3
2739 H11	4723 I3
2740 H5	4724 I3
2741 I7	4725 I3
2742 H5	4726 I3
2743 I9	4727 I3
2744 I5	4728 I3
2745 G4	4729 I3
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2747 G11	4731 I3
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2781 I3	4765 I3
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2995 I3	4979 I3
2996 I3	4980 I3
2997 I3	4981 I3
2998 I3	4982 I3
2999 I3	4983 I3
3000 I3	4984 I3

2801 A4	2806 B9	3800 A4	3802A-D 2	3810 B4	3813A-B4	3813-B 7	3819 A-4 C	3827A1 C	3832-2 C7	3833-3 C4	3841-4 D4	3844-1 D7	3851 D4	3855-4 D4	3862-1 D4	3870 A3	7800 A5	F805 A9
2802 B9	2807 B10	3801 E7	3804 A2	3812 B3	3814 C7	3818-3 C7	3826-1 C7	3827-2 C4	3832-3 C7	3833-4 C4	3841-4 D4	3844-2 D7	3853 D4	3858-1 D7	3862-2 D4	3871 D7	F801 B3	
		2810 A3	3802-1 A4	3805 A2	3813-1 C4	3816 C7	3819-1 C4	3826-2 B4	3832-4 C7	3833-4 C7	3841-4 D4	3842-2 D7	3855-5 D4	3858-2 D7	3862-3 D4	3872 B4	5800 A5	
		2813 A4	3802-2 A4	3807 A2	3813-2 C4	3817 C7	3819-2 C4	3826-2 C7	3832-3 C4	3833-4 C7	3841-4 D4	3844-2 D7	3855-5 D4	3858-2 D7	3862-3 D4	3872 B4	5800 A5	
2805 B9	2810 A3	3802-3 B4	3807 A2	3813-3 C4	3818-2 C7	3819-3 C4	3826-2 C7	3832-2 C7	3833-2 C4	3841-3 D4	3842-2 D7	3849 D4	3855-5 D4	3858-2 D7	3863 E7	5810 A4	F804 B3	

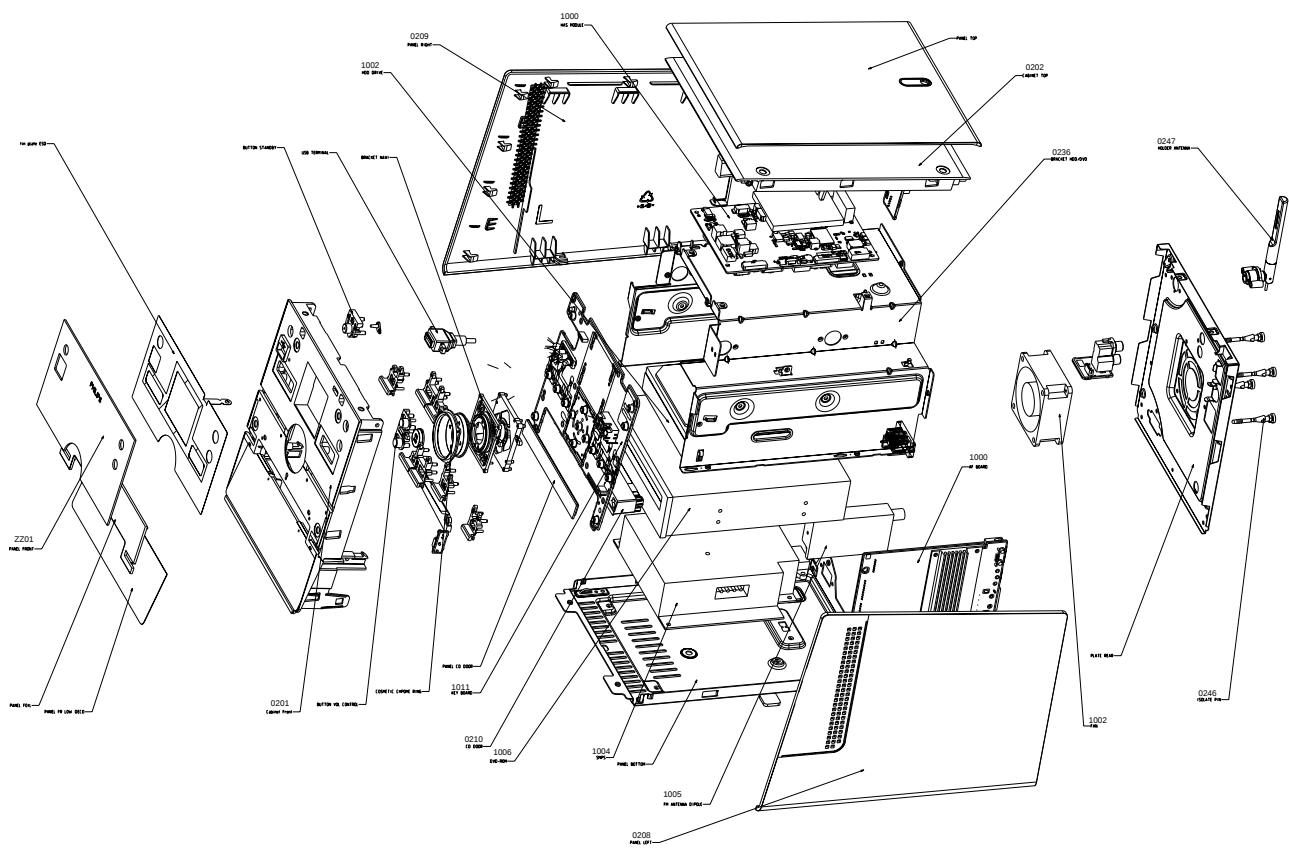


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LAYOUT DIAGRAM (side B)



EXPLODED VIEW DIAGRAM



ACCESSORIES PARTS LIST

0455	2422 076 00652	CBLE CINCH 1M5 CINCH WHRD B
0456	2422 076 00687	ANT FM DIP SD-2380 B
0457	3141 078 70301	INSTALLER-SW(CDR) WAC-3500D/12
0458	2422 076 00569	CBLE LAN 1M5 LAN RJ45 B
0460	3139 238 14861	PROD ASSY RC2023612/01 PKD
0469	△ 2422 070 98151	MAINSCORD EUR 2A5 1M5 DET 2P B
0469	△ 2422 070 98248	MAINSCORD AUS/NZ 1M5 DET 2P B
0469	△ 2422 070 98151	MAINSCORD EUR 2A5 1M5 DET 2P B
0469	△ 2422 070 98147	MAINSCORD UK 2A5 1M5 DET 2P B
0470	3141 078 50181	BOX SPK ASSY WAC3500D
0471	3141 078 70321	Docking DC1050/00

MECHNICAL & ELECTRICAL PARTS LIST

0201	3141 077 51181	CAB F PRE-ASSY WAC3500D/12
0202	3141 077 51191	CABINET TOP PRE-ASSY WAC3500D
0208	3141 074 03761	PANEL LEFT WAC3500/12
0209	3141 074 03771	PANEL RIGHT WAC3500/12
0210	3141 077 51201	CD DOOR PRE-ASSY WAC3500D
0211	3141 074 01841	FOOT RUBBER WAC5
0236	3141 071 20641	BRACKET HDD/DVD WAC3500
0237	3141 074 04311	DAMPER HDD D25 WAC3500D
0245	3141 074 04301	PAD SMPS WAC3500D
0246	3141 074 04331	ISOLATOR PIN WAC3500D
0247	3141 074 03851	HOLDER ANTENNA WAC3500D
1000	3141 078 02311	PBAS AF & AMP WAC3500D/RDS
1002	2822 031 00065	FAN 12VDC 0.8W 3100RPM B
1000	3141 078 02381	PBAS HasLi-07(WAC3K5D_EU_RDS)
1003	2822 065 01728	WMOD WIFIG MPC1 MP-G-BR-05 Y
1002	3141 070 50421	PRG. ASSY HDD WAC3500D V1.0
1004	△ 3141 078 50171	SMPS 135VA - WAC3500D/55
1004	△ 3141 078 50231	SMPS 135VA - WAC3500D/05
1005	2422 542 00049	TUN FM ENG07826QF EUR B
1006	3141 070 50401	PRG.ASSY DVDROM SHD-16P1S
1006	3141 070 50411	PRG.ASSY DVDROM LH-16D1P
1007	2722 171 00524	LCD MODULE PCE2035-02 (VARI) Y
1008	2422 076 00717	ANT WIFI 2450MHZ 50R Y
1009	2422 549 00668	ANT WIFI WAS5 B
1011	3141 078 02331	PBAS Keys & IR WAC3500D
1012	3141 078 02341	PBAS - AUDIO in/out WAC3500D
1013	3141 078 02351	PBAS 7 - Headphone WAC3500D
1014	3141 078 02361	PBAS 6 - WiFi-light WAC3500D
8003	3141 070 21691	FFC 10P/430/10P BD 1.25mm FOLD
8007	3141 070 21711	FFC 19P/180/19P BD 1MMP FOLD
8008	3141 070 21681	FFC 23P/200/23P 1MM BD FOLD
8011	3141 070 21701	FFC 26P/280/26P BD 1MM FOLD
8012	3141 070 21621	CBLE 5P PH/250 /USB-A (REC)
8013	3141 070 21721	CBLE IDE 40P/165/20P
8017	3141 070 21661	CBLE PH 02P/340/02P PH 26ST BK
ZZ01	3141 079 43291	PANEL FRONT WAC3500

Note: Only these parts mentioned in the list are normal service parts.