# DVD Micro System

MCi300

Service
Service
Service

# Service Manual

TABLE OF CONTENTS


Location of PCBS ..... 1-1
Specifications ..... 1-2
Measurement Setup ..... 1-3
Service Aids, Safety Instruction, etc. ..... 1-4
Instructions On CD Playability ..... 1-5 to 1-6
Software & Firmware Upgrade ..... 2-1...2-2
Malfuction Check Chart ..... 2-3
Service Test Program..... 3-1...3-2
Disassembly Diagram ..... 4-1
Block Diagram ..... 5-1
Wiring Diagram..... 6-1
PB - AF & AMP..... 7
Circuit diagram ..... 7-1...7-4
Layout diagram..... 7-5...7-6
PB - KEYS & IR ..... 8
Circuit diagram ..... 8-1
Layout diagram..... 8-2...8-3
PB - Audio In/Out ..... 9-1
PB - Headphone ..... 10-1
PB - Wifi - Light ..... 11-1
PB - Wesli - 08 ..... 12
Circuit diagram ..... 12-1...12-9
Layout diagram..... 12-10...12-11
Explode View ..... 13-1
Service Partlist ..... 13-2


CLASS 1
LASER PRODUCT


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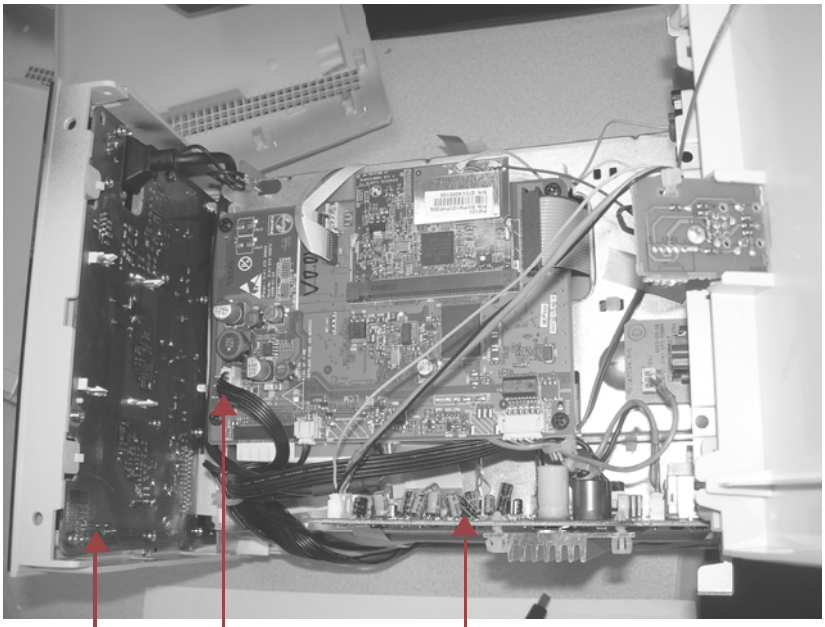
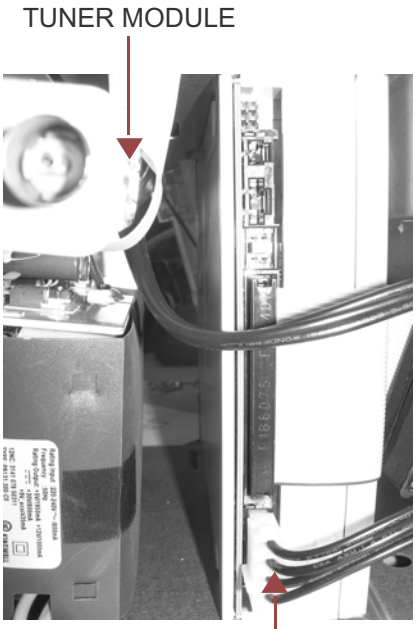
**Version 1.0**


PHILIPS

# Location of PCBS




## VERSION VARIATIONS :

| Type /Versions: / Board in used: / Service policy | MCI300 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | /05 | /12 | /37 | | | | | | | | |
| SMPS BOARD | M | M | | | | | | | | | |
| TUNER MODULE | M | M | | | | | | | | | |
| AF&AMP BOARD | M | M | | | | | | | | | |
| AUDIO IN&OUT BOARD | M | M | | | | | | | | | |
| HEADPHONE BOARD | M | M | | | | | | | | | |
| KEYS&IR BOARD | M | M | | | | | | | | | |
| WIFI-LIGHT BOARD | M | M | | | | | | | | | |
| WESLI-08 BOARD | M | M | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| Type /Versions: / Features / Feature diffrence | MCI300 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | /05 | /12 | /37 | | | | | | | | |
| RDS | | | | | | | | | | | |
| VOLTAGE SELECTOR | | | | | | | | | | | |
| ECO STANDBY - DARK | | | | | | | | | | | |
| | | | | | | | | | | | |

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

# TECHNICAL SPECIFICATION

General
AC Power ..... 230V±10%.../05/12/79
..... 120V±10%.../37
.....120V/240V±10%.../55/97
Dimensions(w x h x d) .....185 x 210 x 248mm
Weight(with/without speakers) ..... 8.303kg/3.35kg

Power consumption
Active..... <45W
Standby ..... <15W
Eco standby..... <1W

Amplifier
Out power..... 2 x 40W
Frequency response..... 350Hz - 14KHz,-3dB
Signal to noise.....≥ dB (IEC)
Input sensitivity
AUX IN ..... 500mV(0dB)
Impedance Speakers ..... 12ohm
Impedance headphone..... 16 Ohm-150 Ohm

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

Wired(LAN/Ethernet)
Wired standard ..... 802.3/802.3u
Speed ..... 10/100MBit/s
Mode ..... half/full duplex
Crossover detection(Auto MDIX).....yes

uPnP support format .....MP3/WMA/AAC/ADPCM/PCM
Internet rhapsody services(via ECD)
.....streaming,add to library,media playback,my rhapsody
..... subscription management,DRM metering,search
.....channels,dynamic playlists,playlist creation/access

Tuner
FM wave range..... 87.5-108MHz
FM aerial ..... 75ohm xoaxial wire/T-antenna wire

Internet Radio
Internet service.....Rhapsody
Streaming protocols ..... HTTP,RTSP-T,MMS-T/MMS-U
.....SHOUTcast

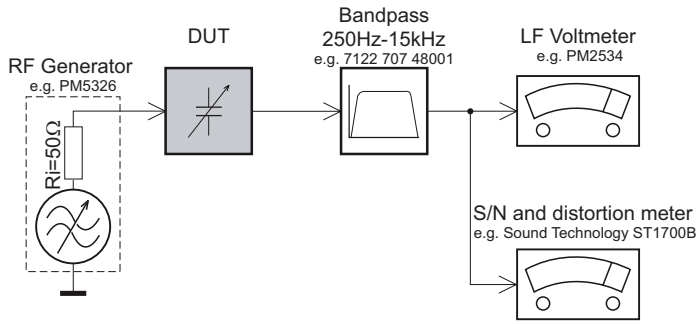
CD player
Frequency range .....60-20,000 Hz, -3 dB
Signal-to-noise ratio ..... 72 dBA (IEC)
MPEG 1 Layer 3 (MP3-CD) .....MPEG AUDIO
MP3-CD bit rate ..... 32-320 kbps, VBR
WMA bit rate .....up to 160 kbps
Sampling frequencies .....32, 44.1, 48 kHz

USB player
USB .....12Mb/s,V1.1
Support format..... MP3,WMA,AAC
USB class..... MSC,MTP
Number of albums/folders ..... maximun 99
Nunber of tracks/titles..... maximum 999

*Specifications and external appearance are subject to change without notice.

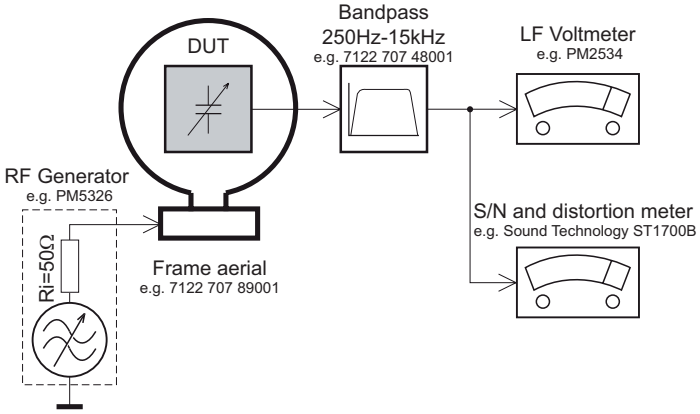
# MEASUREMENT SETUP

### *Tuner FM*




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

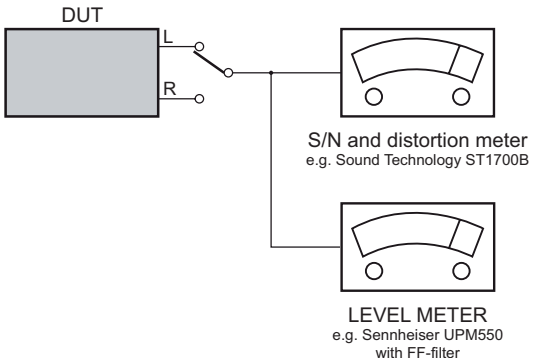
### *Tuner AM (MW,LW)*




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).

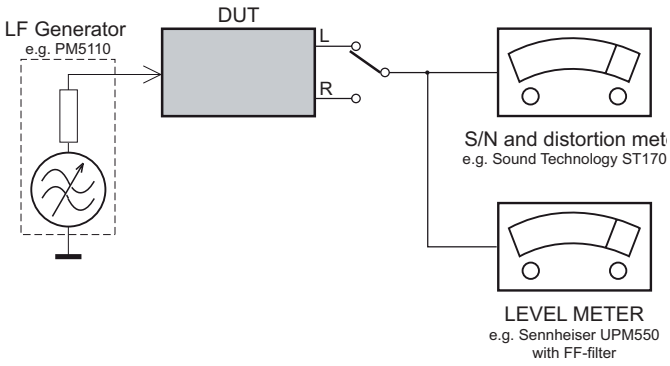
### *CD*

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.

## 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 ⚠.

# 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

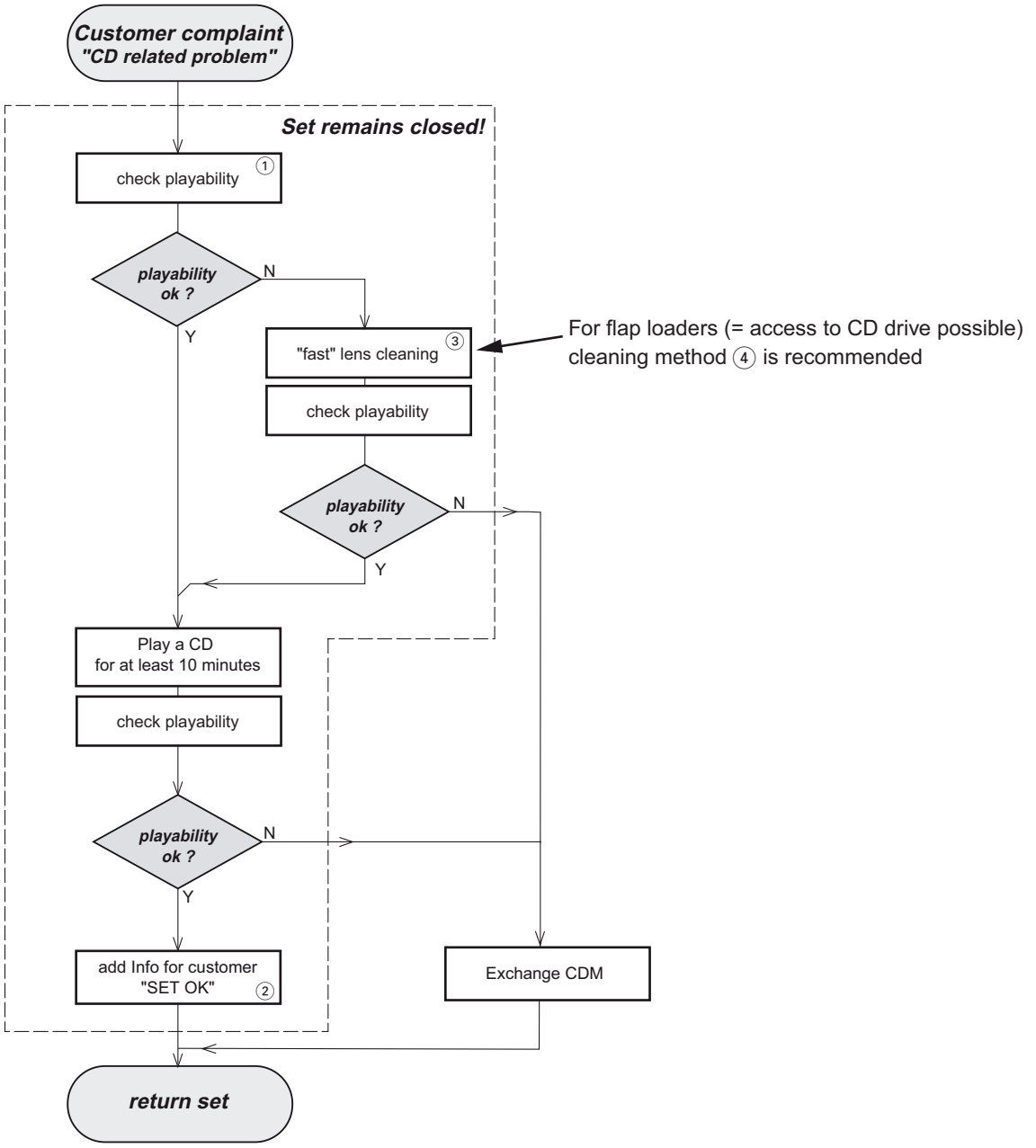
Safety regulations require that after a repair, the set must be returned in its original condition. Pay in particular attention to the following points:

- 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.

# INSTRUCTIONS ON CD PLAYABILITY




① - ④ For description - see following pages

# INSTRUCTIONS ON CD PLAYABILITY

①

***PLAYABILITY CHECK***

For sets which are compatible with **CD-RW** discs
use CD-RW Printed Audio Disc.....7104 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 ≥10seconds
  Black dot from 00:50 to 01:10
- jump forward/backward (search) within a reasonable time

For all other sets
use CD-DA SBC 444A.....4822 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 ≥10seconds
  Fingerprint ≥10seconds
  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.

④

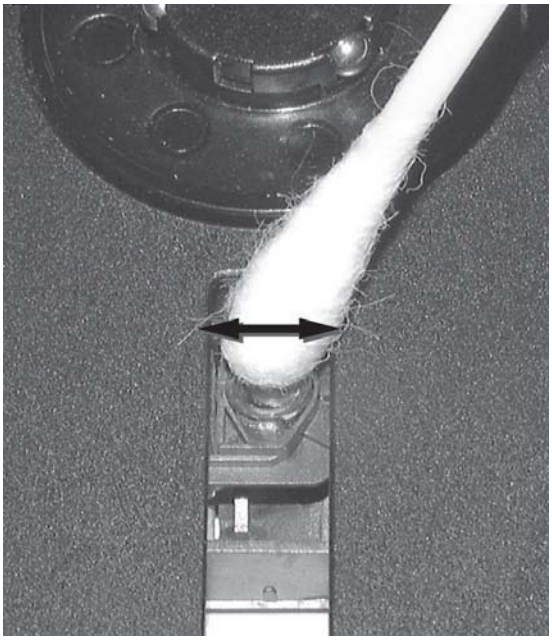
***LIQUID LENS CLEANING***

**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

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.



# 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

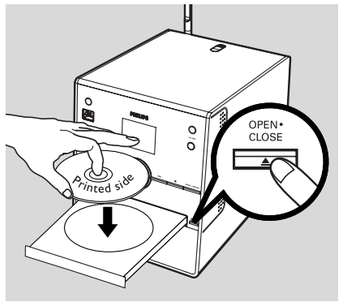
### 2. How to download the software to your computer

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

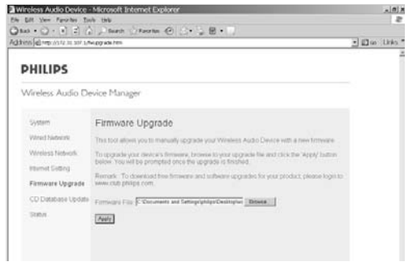
Do confirm the software version by checking the system version.
Please follow the procedure described in the section "**Software Version Verification Procedures**".



## 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.club.philips.com for download.

### 12.1.1 To update Gracenote music recognition database

1. Use your PC to register your product on www.club.philips.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.

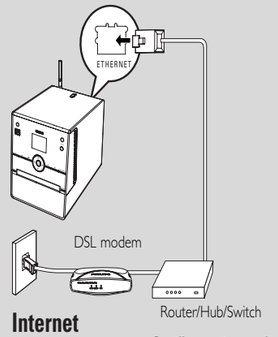
## 12.2 Gracenote Internet Query

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 sevices**




*for illustration only*

***Helpful hint:***

*– Make sure that no dial-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** > **Network** > **Wired**
c. Press ▶ to continue
d. Press ▲ or ▼ and ▶ to select **Automatic** (DHCP).

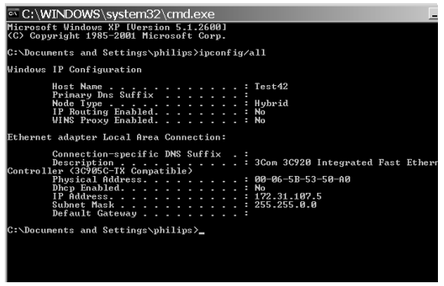
   - ***If there is no DHCP,*** set the DNS and Gateway manually by following steps below:

**On your PC**, carry out the following steps:
a. Click **Start** > **Run**

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

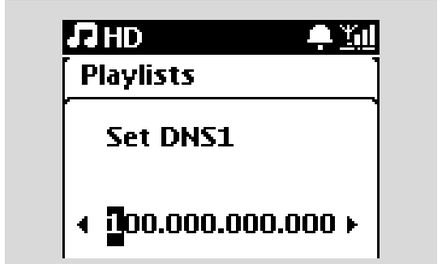


d. Write down the DNS and Gateway of the current connection




**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/▶II** to confirm
3) Press **OK/▶II** 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/▶II** 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/▶II** to confirm
Otherwise, press **OK/▶II** 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

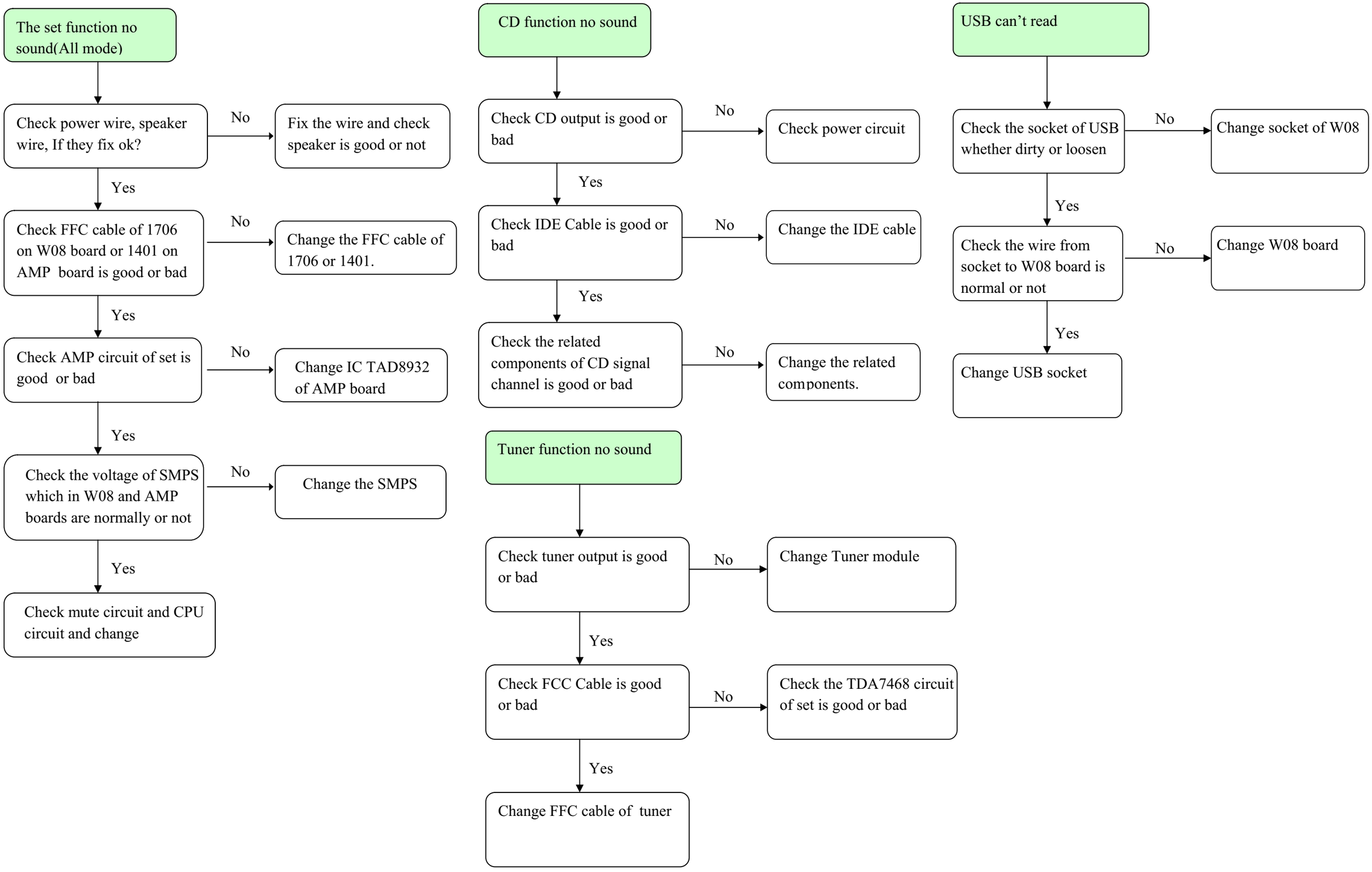
When the internet connection is made, insert the CD disc that you want to look for its information into the CD loader on the Center. Searching start immediately. It will search from local Gracenote CD database firstly. If can't find the CD track information, online searching will then start. The searching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

2-3

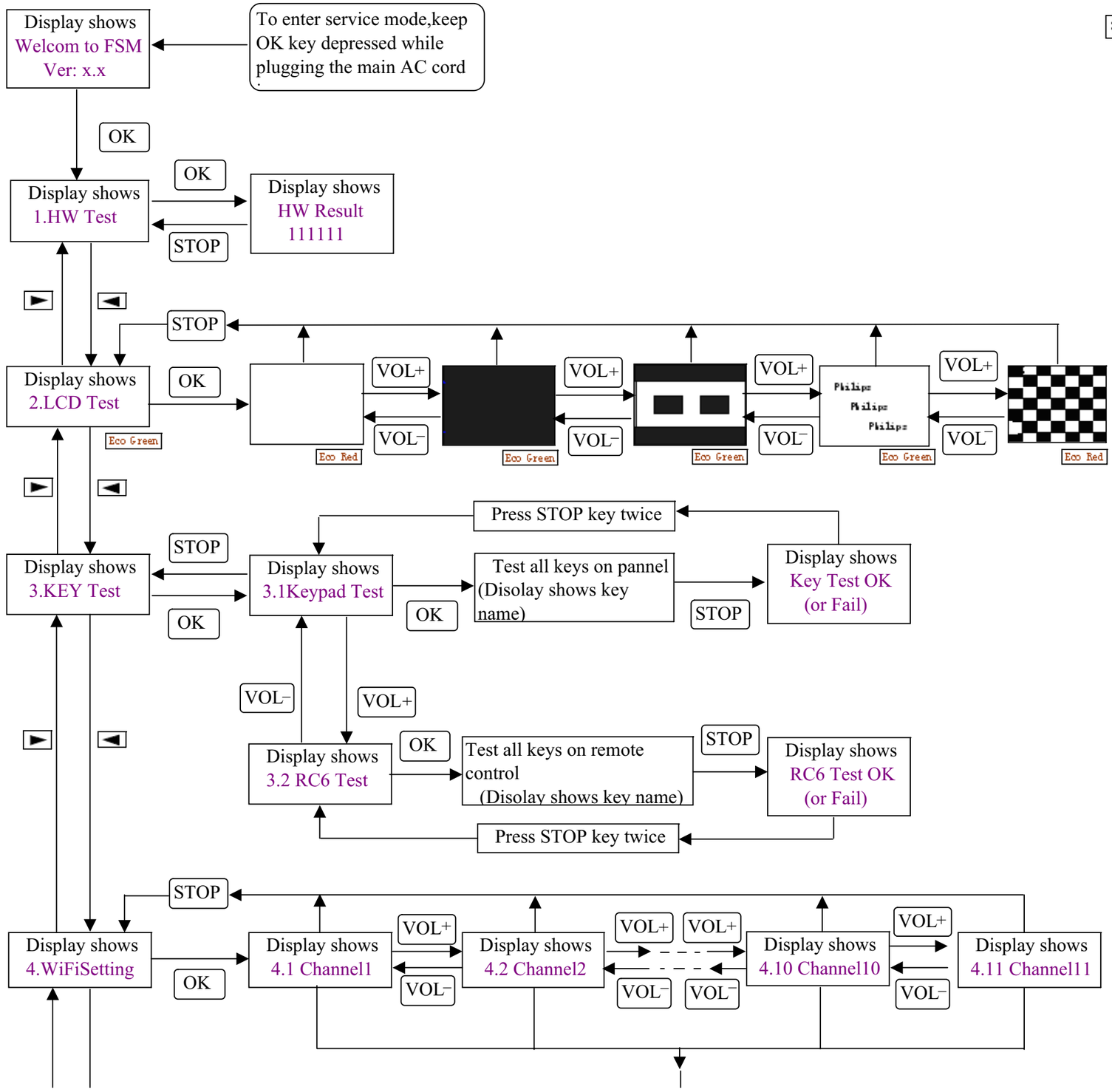
**Malfunction Check Chart**



3-1

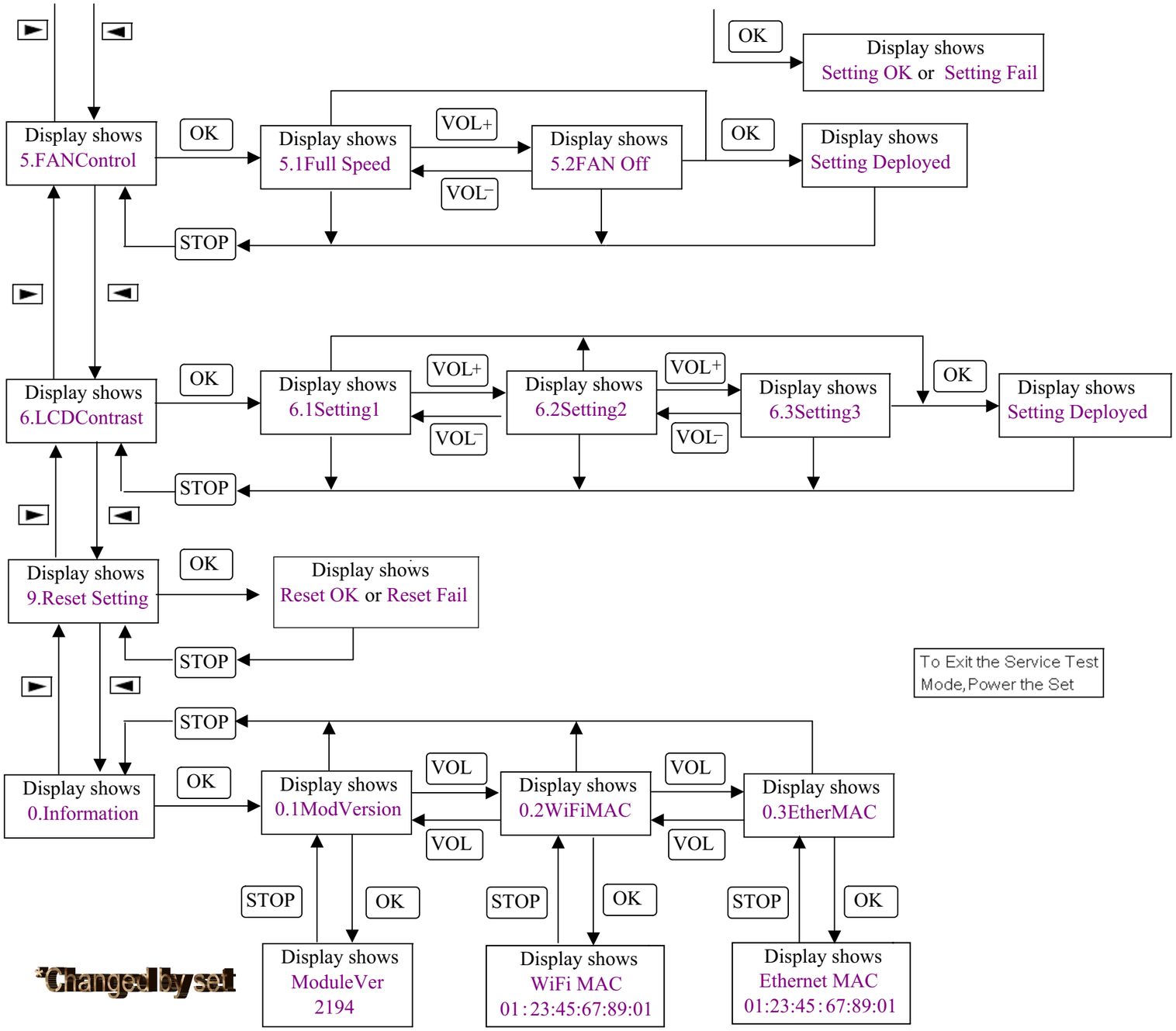
## SERVICE TEST PROGRAM

SERVICE TEST PROGRAM



3-2

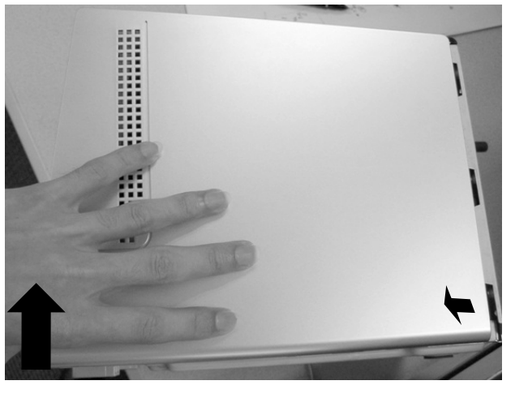
## SERVICE TEST PROGRAM



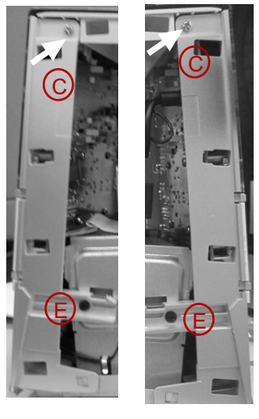
# DISASSEMBLY INSTRUCTION

1. Remove Left & Right Cabinet
   - remove screws M3x10 - 4 pcs (A)

   - Pull the left or right cabinet and then lift it.



2. Remove Top Cabinet
   a. remove screws M3x8 - 2 pcs (B) & 2 pcs (C)
   b. lift the Top Cabinet

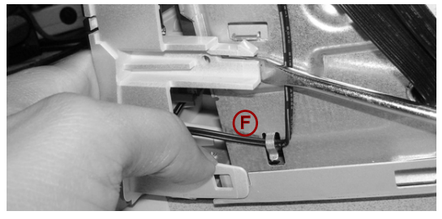




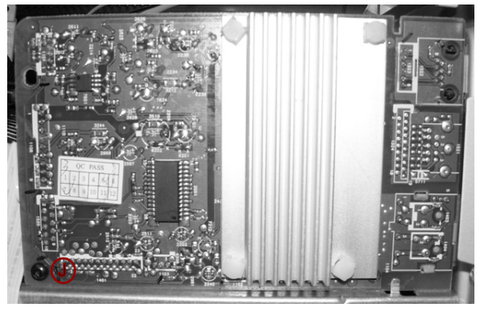


3. Separate Front and Back Cabinet.
   a. remove screws T3x8 - 2 pcs. (D)
   b. remove screws T3x6 - 2 pcs. (E)

   c. release the catches. (F)

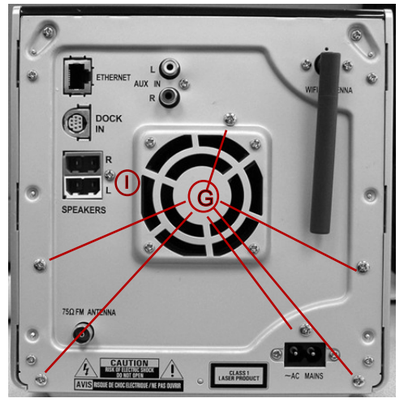


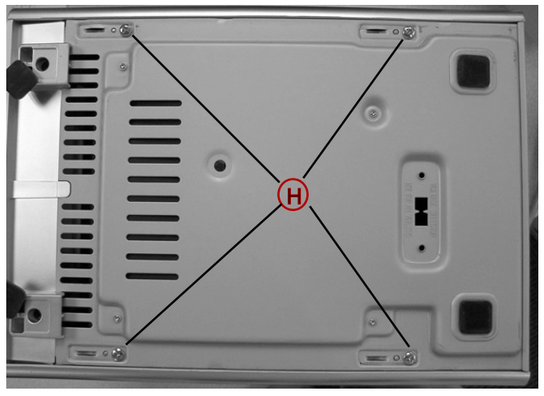

5. Remove Amplifier board
   a. remove screws T3x4 - 1 pcs (J)



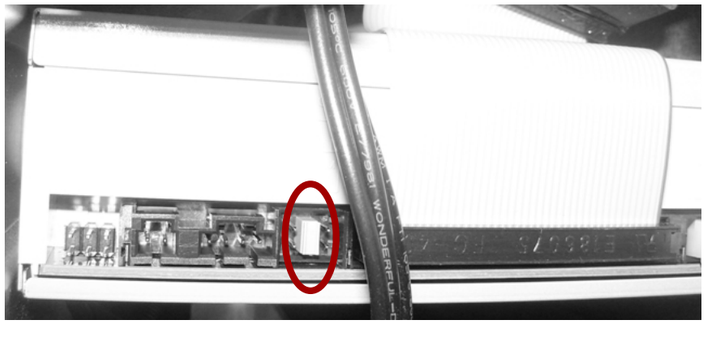

4-1

4. Separate rar and bottom Cabinet.
   a. remove screws T3x6 - 6 pcs. (G)
   b. remove screws T3x6 - 4 pcs. (H)
   b. remove screws M3x10 - 1 pcs. (I)



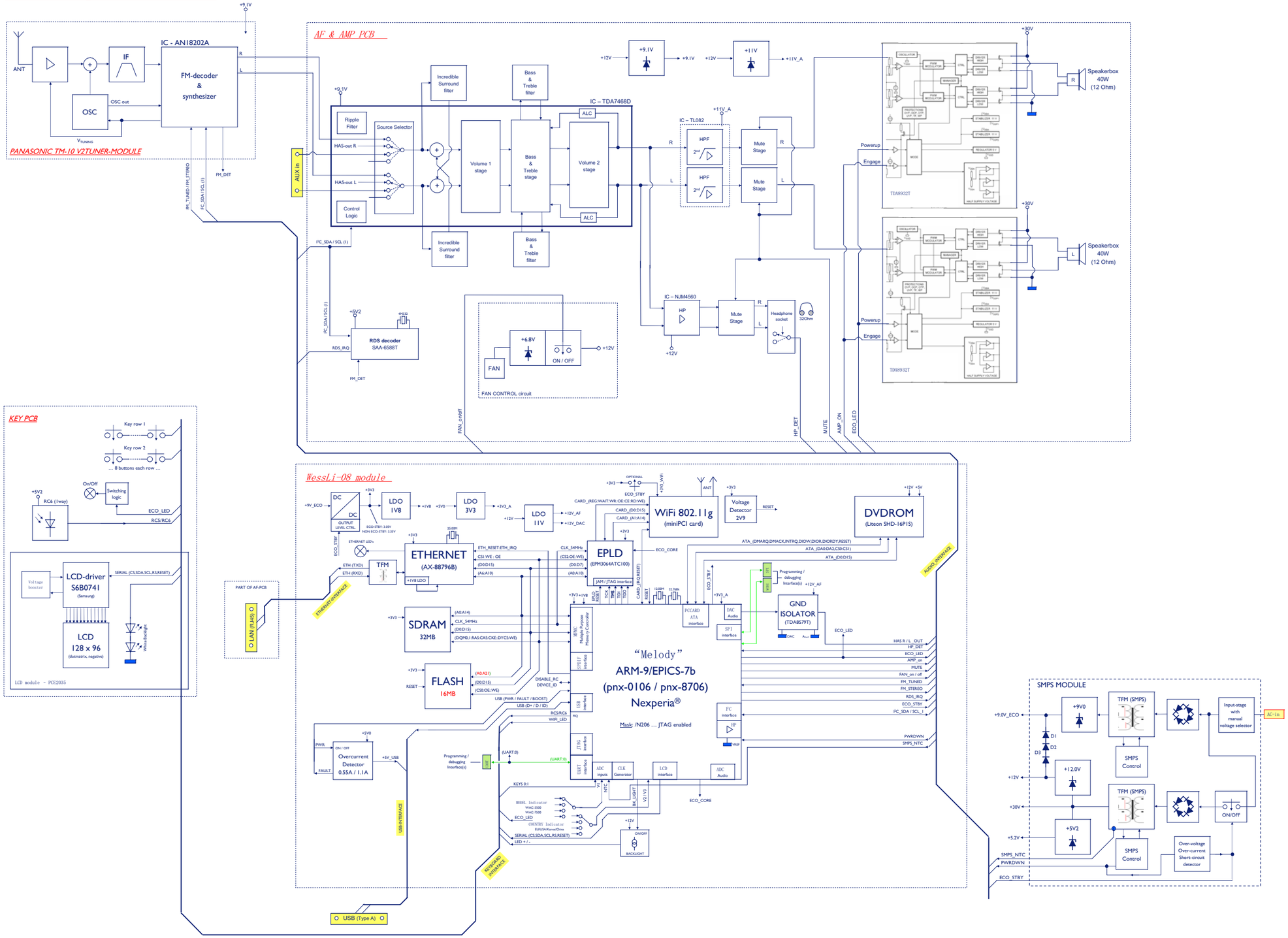




6. Attention - Jump is set on slave part.



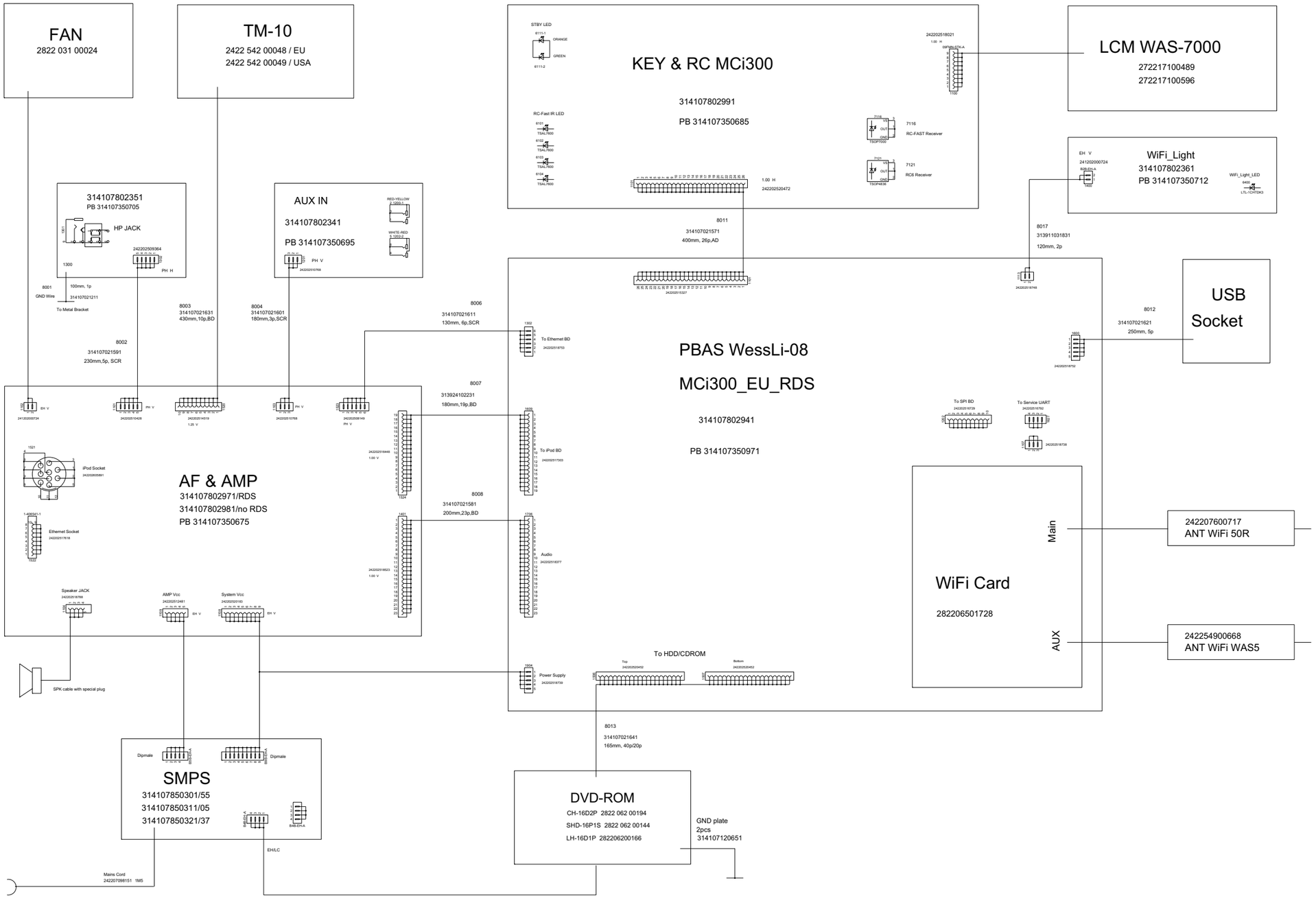
5-1

# Block Diagram



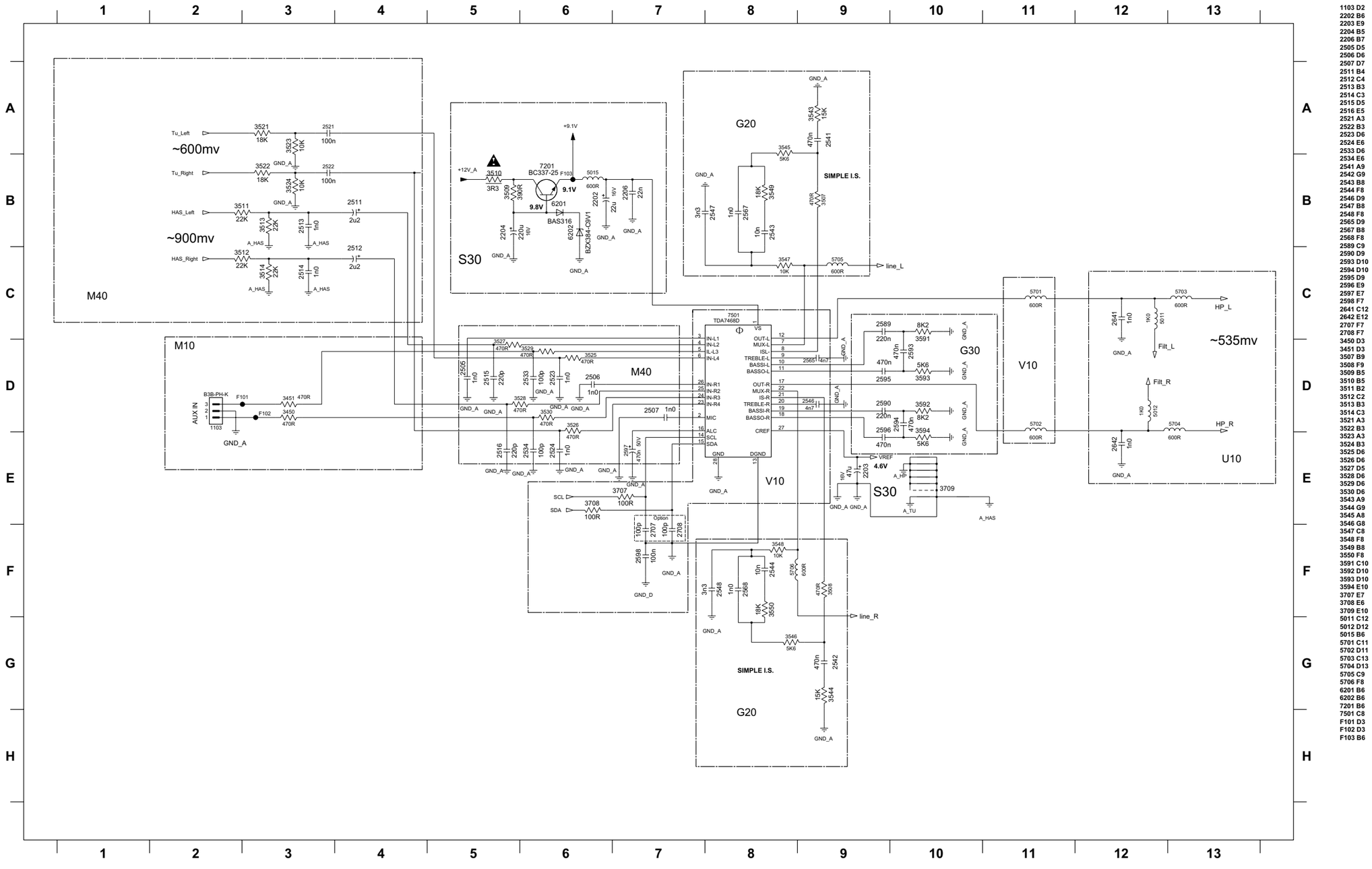
6-1

# Wiring Diagram



7-1

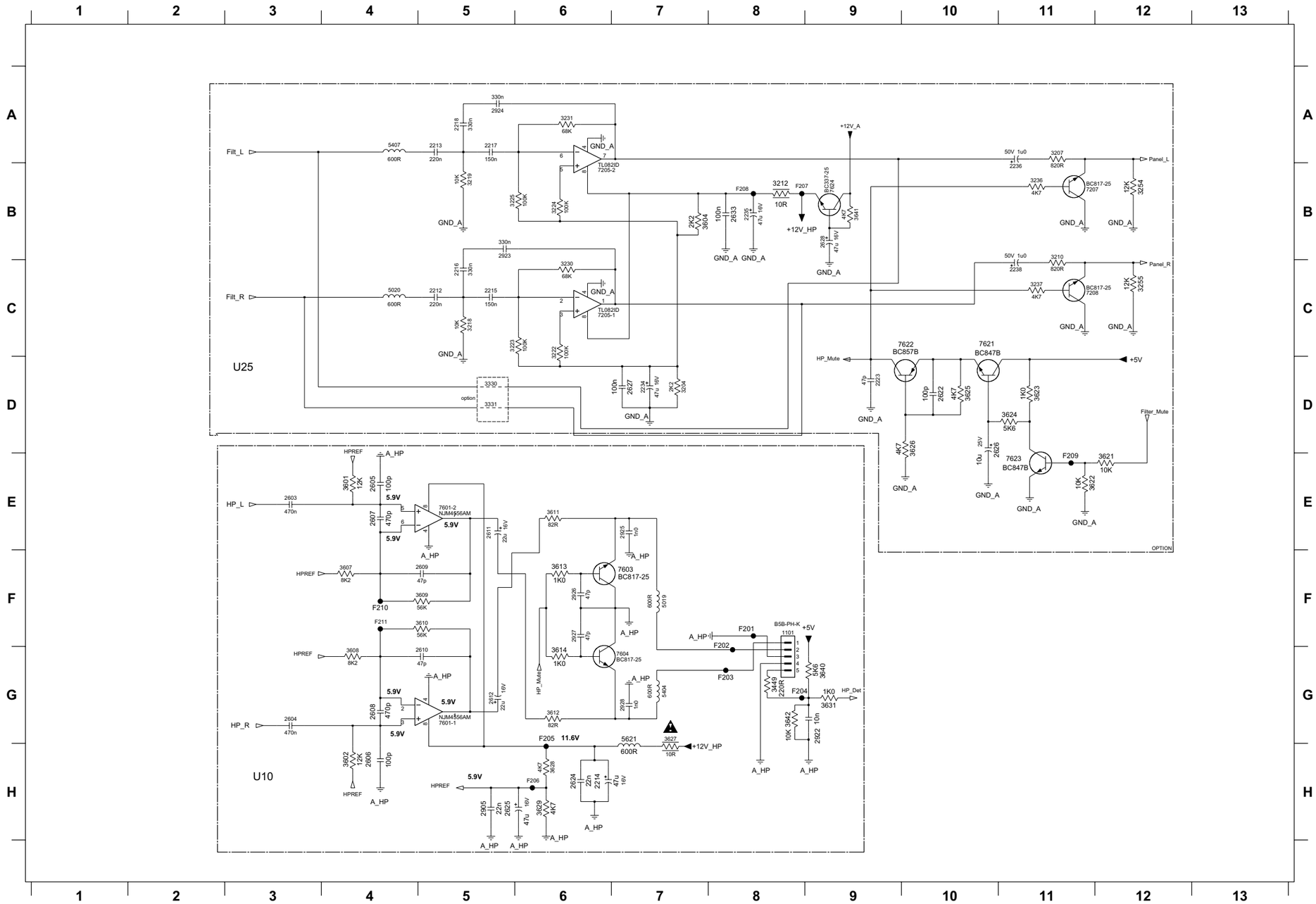
# PB - AF & AMP - Circuit Diagram - PART1




1103 D2
2202 B6
2203 E9
2204 B5
2206 B7
2505 D5
2506 D6
2507 D7
2511 B4
2512 C4
2513 B3
2514 C3
2515 D5
2516 E5
2521 A3
2522 B3
2523 D6
2524 E6
2533 D6
2534 E6
2541 A9
2542 G9
2543 B8
2544 F8
2546 D9
2547 B8
2548 F8
2565 D9
2567 B8
2568 F8
2589 C9
2590 D9
2593 D10
2594 D10
2595 D9
2596 E9
2597 E7
2598 F7
2641 C12
2642 E12
2707 F7
2708 F7
3450 D3
3451 D3
3507 B9
3508 F9
3509 B5
3510 B5
3511 B2
3512 C2
3513 B3
3514 C3
3521 A3
3522 B3
3523 A3
3524 B3
3525 D6
3526 D6
3527 D5
3528 D6
3529 D6
3530 D6
3543 A9
3544 G9
3545 A8
3546 G8
3547 C8
3548 F8
3549 B8
3550 F8
3591 C10
3592 D10
3593 D10
3594 E10
3707 E7
3708 E6
3709 E10
5011 C12
5012 D12
5015 B6
5701 C11
5702 D11
5703 C13
5704 D13
5705 C9
5706 F8
6201 B6
6202 B6
7201 B6
7501 C8
F101 D3
F102 D3
F103 B6

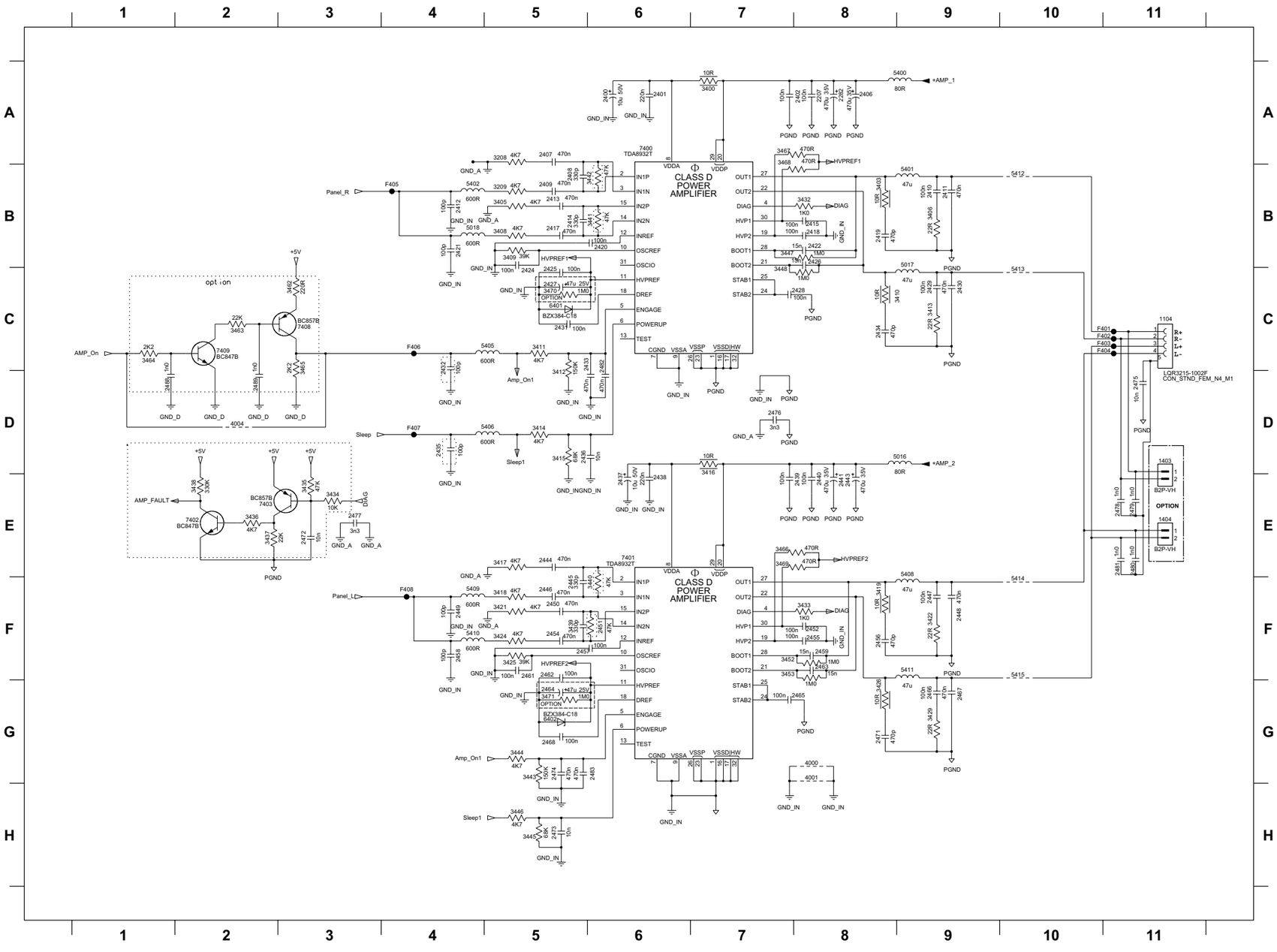
7-2

# PB - AF & AMP - Circuit Diagram - PART2



7-3

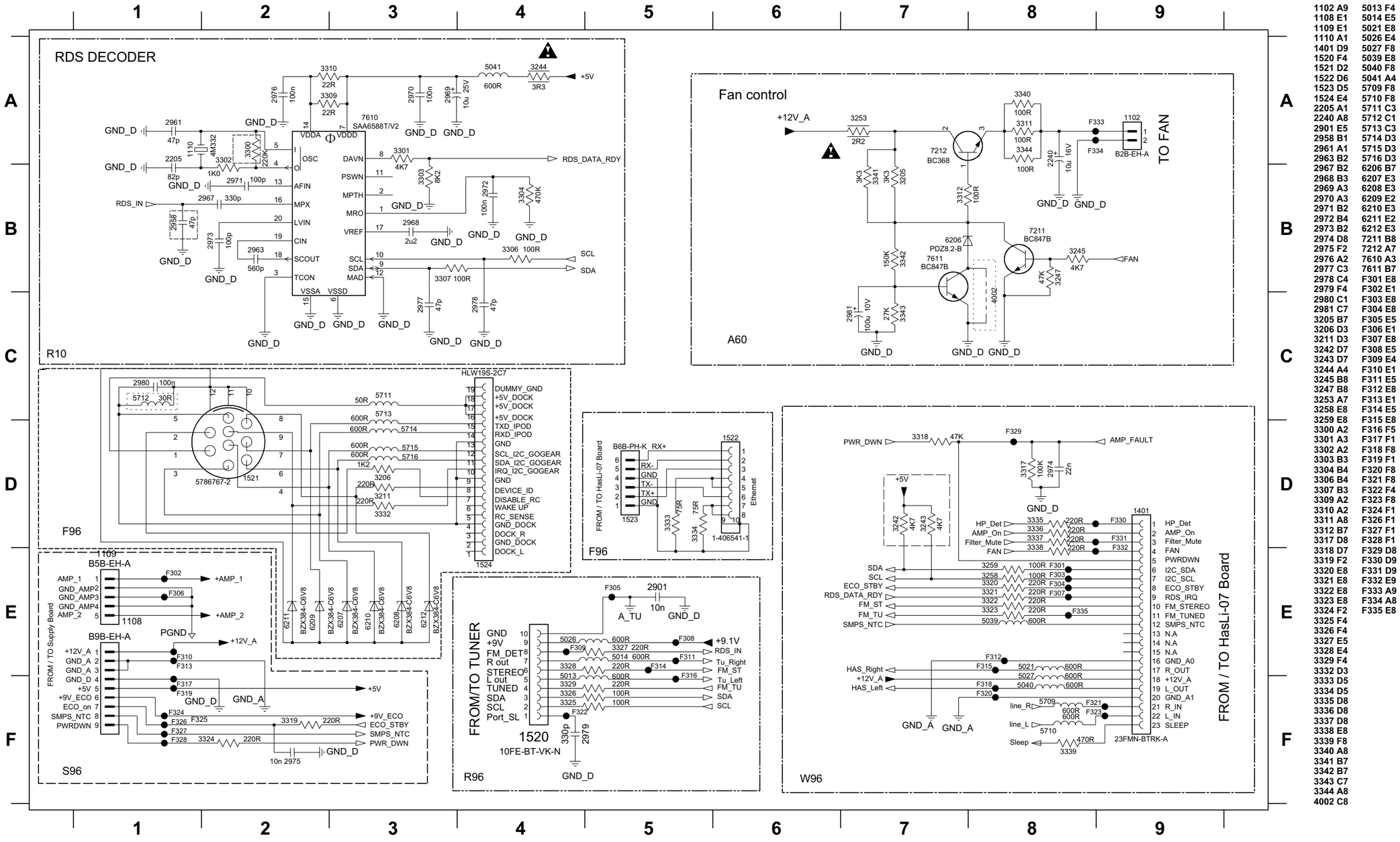
# PB - AF & AMP - Circuit Diagram - PART3




1104 C11
1403 D11
1404 E11
2207 A8
2282 A8
2400 A6
2401 A6
2402 A8
2406 A8
2407 A5
2408 B5
2409 B5
2410 B9
2411 B9
2412 B4
2413 B5
2414 B5
2415 B8
2417 B5
2418 B8
2419 B8
2420 B6
2421 B4
2422 B8
2424 C5
2425 C5
2426 B8
2427 C5
2428 C8
2429 C9
2430 C9
2431 C5
2432 C4
2433 C6
2434 C8
2435 D4
2436 D5
2437 E6
2438 E6
2439 E8
2440 E8
2441 E8
2443 E8
2444 E5
2445 F5
2446 F5
2447 F9
2448 F9
2449 F4
2450 F5
2451 F6
2452 F8
2454 F5
2455 F8
2456 F8
2457 F5
2458 F4
2459 F8
2461 F5
2462 F5
2463 F8
2464 G5
2465 G8
2466 G9
2467 G9
2468 G5
2471 G8
2472 E3
2473 H5
2474 G5
2475 D11
2476 D7
2477 E3
2478 E11
2479 E11
2480 E11
2481 E11
2482 C6
2483 G6
2488 D1
2489 D2
3208 A5
3209 B5
3400 A7
3403 B8
3405 B5
3406 B9
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
3426 G8
3429 G9
3432 B8
3433 F8
3434 E3
3435 E3
3436 E2
3437 E2
3438 E2
3439 F5
3440 F6
3441 B6
3442 B6
3443 G5
3444 G5
3445 H5
3446 H5
3447 B7
3448 B7
3452 F7
3453 F7
3462 C3
3463 C2
3464 C1
3465 C3
3466 E7
3467 A7
3468 A7
3469 E7
3470 C5
3471 G5
4000 G8
4001 G8
5016 D9
5017 B9
5018 B4
5400 A9
5401 B9
5402 B4
5405 C5
5406 D5
5408 E9
5409 F4
5410 F4
5411 F9
5412 B10
5413 C10
5414 F10
5415 F10
6401 C5
6402 G5
7400 A6
7401 E6
7402 E2
7403 E2
7408 C3
7409 C2
F401 C11
F402 C11
F403 C11
F404 C11
F405 B4
F406 C4
F407 D4
F408 F4

7-4

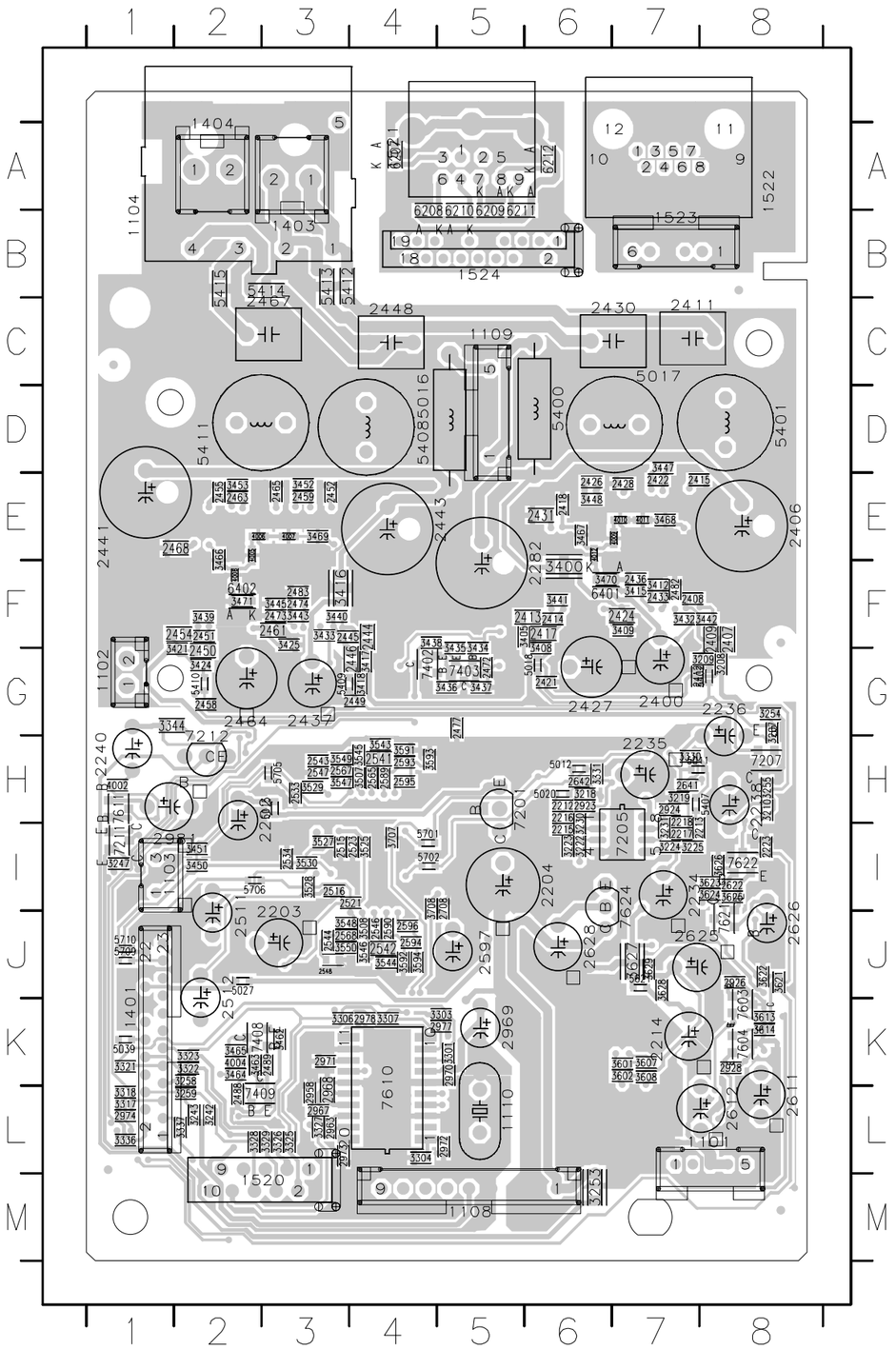
# PB - AF & AMP - Circuit Diagram - PART4




| | |
|---|---|
| 1102 A9 | 5013 F4 |
| 1108 E1 | 5014 E5 |
| 1109 E1 | 5021 E8 |
| 1110 A1 | 5026 E4 |
| 1401 D9 | 5027 F8 |
| 1520 F4 | 5039 E8 |
| 1521 D2 | 5040 F8 |
| 1522 D6 | 5041 A4 |
| 1523 D5 | 5709 F8 |
| 1524 E4 | 5710 F8 |
| 2205 A1 | 5711 C3 |
| 2240 A8 | 5712 C1 |
| 2901 E5 | 5713 C3 |
| 2958 B1 | 5714 D3 |
| 2961 A1 | 5715 D3 |
| 2963 B2 | 5716 D3 |
| 2967 B2 | 6206 B7 |
| 2968 B3 | 6207 E3 |
| 2969 A3 | 6208 E3 |
| 2970 A3 | 6209 E2 |
| 2971 B2 | 6210 E3 |
| 2972 B4 | 6211 E2 |
| 2973 B2 | 6212 E3 |
| 2974 D8 | 7211 B8 |
| 2975 F2 | 7212 A7 |
| 2976 A2 | 7610 A3 |
| 2977 C3 | 7611 B7 |
| 2978 C4 | F301 E8 |
| 2979 F4 | F302 E1 |
| 2980 C1 | F303 E8 |
| 2981 C7 | F304 E8 |
| 3205 B7 | F305 E5 |
| 3206 D3 | F306 E1 |
| 3211 D3 | F307 E8 |
| 3242 D7 | F308 E5 |
| 3243 D7 | F309 E4 |
| 3244 A4 | F310 E1 |
| 3245 B8 | F311 E5 |
| 3247 B8 | F312 E8 |
| 3253 A7 | F313 E1 |
| 3258 E8 | F314 E5 |
| 3259 E8 | F315 E8 |
| 3300 A2 | F316 E5 |
| 3301 A3 | F317 F1 |
| 3302 A2 | F318 F8 |
| 3303 B3 | F319 F1 |
| 3304 B4 | F320 F8 |
| 3306 B4 | F321 F8 |
| 3307 B3 | F322 F4 |
| 3309 A2 | F323 F8 |
| 3310 A2 | F324 F1 |
| 3311 A8 | F326 F1 |
| 3312 B7 | F327 F1 |
| 3317 D8 | F328 F1 |
| 3318 D7 | F329 D8 |
| 3319 F2 | F330 D9 |
| 3320 E8 | F331 D9 |
| 3321 E8 | F332 E9 |
| 3322 E8 | F333 A9 |
| 3323 E8 | F334 A8 |
| 3324 F2 | F335 E8 |
| 3325 F4 | |
| 3326 F4 | |
| 3327 E5 | |
| 3328 E4 | |
| 3329 F4 | |
| 3332 D3 | |
| 3333 D5 | |
| 3334 D5 | |
| 3335 D8 | |
| 3336 D8 | |
| 3337 D8 | |
| 3338 E8 | |
| 3339 F8 | |
| 3340 A8 | |
| 3341 B7 | |
| 3342 B7 | |
| 3343 C7 | |
| 3344 A8 | |
| 4002 C8 | |

7-5

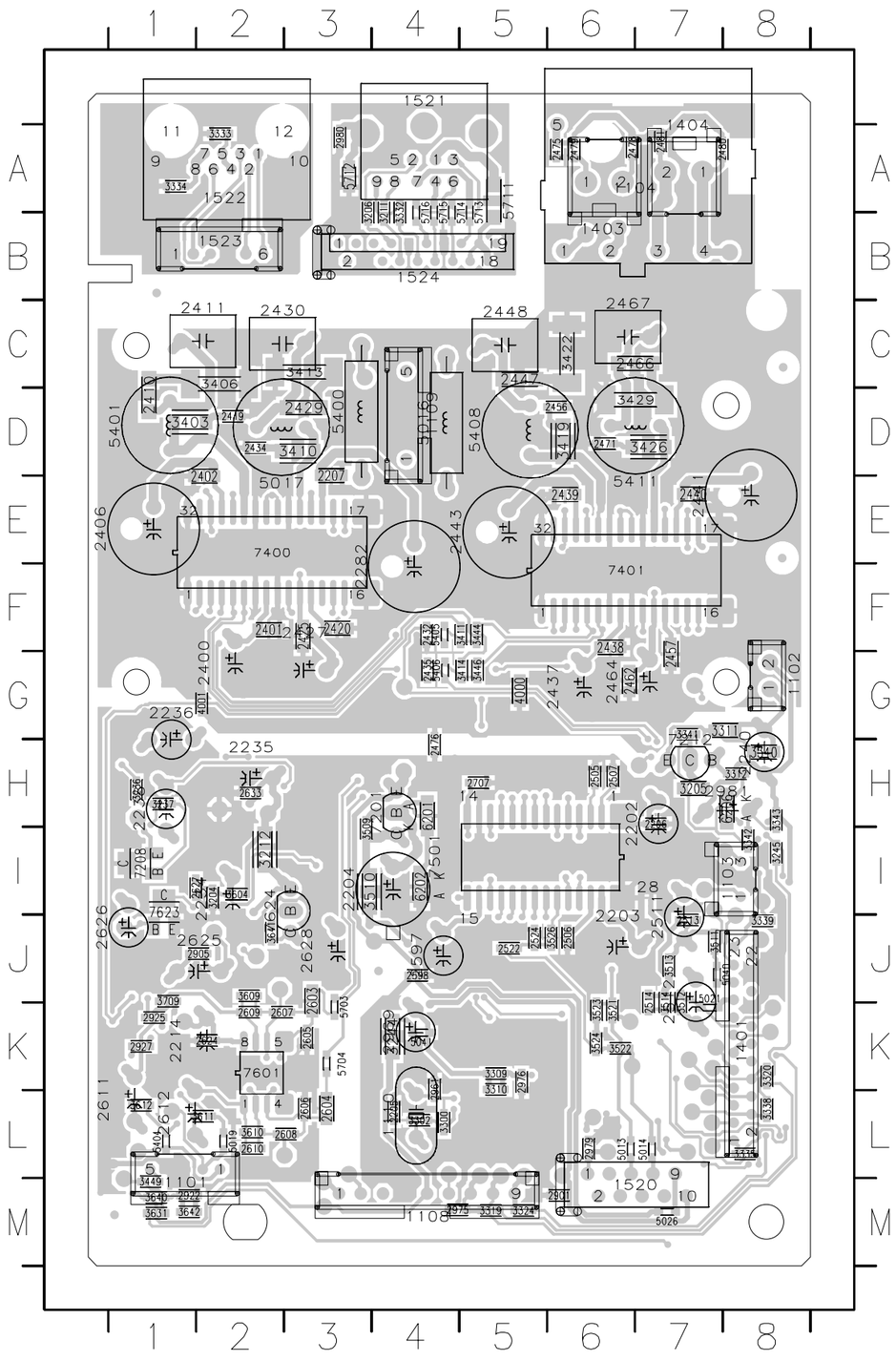
## PB - AF&AMP - Layout Diagram - Top View




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1101 | L8 | 2489 | K3 | 3325 | L3 | 3627 | J7 |
| 1102 | G1 | 2511 | J2 | 3326 | L3 | 3628 | J7 |
| 1103 | I1 | 2512 | J2 | 3327 | L3 | 3629 | J7 |
| 1104 | B1 | 2515 | I3 | 3328 | L2 | 3707 | I4 |
| 1108 | M5 | 2516 | I3 | 3329 | L3 | 3708 | I4 |
| 1109 | C5 | 2521 | I4 | 3330 | H7 | 4002 | H1 |
| 1110 | L5 | 2523 | I4 | 3331 | H6 | 4004 | K2 |
| 1401 | K1 | 2533 | H3 | 3336 | L1 | 4005 | E2 |
| 1403 | B3 | 2534 | I3 | 3337 | L2 | 4006 | E2 |
| 1404 | A2 | 2541 | H4 | 3344 | G1 | 4007 | E3 |
| 1520 | M3 | 2542 | J4 | 3400 | F6 | 4008 | F2 |
| 1521 | A4 | 2543 | H3 | 3405 | F5 | 4009 | E2 |
| 1522 | A8 | 2544 | J3 | 3408 | G6 | 4010 | E7 |
| 1523 | B7 | 2546 | J4 | 3409 | F7 | 4011 | E7 |
| 1524 | B5 | 2547 | H3 | 3412 | F7 | 4012 | E6 |
| 2202 | H3 | 2548 | K3 | 3415 | F7 | 5011 | H7 |
| 2203 | J3 | 2565 | H4 | 3416 | F3 | 5012 | H6 |
| 2204 | I6 | 2567 | H3 | 3417 | G4 | 5015 | H3 |
| 2212 | H6 | 2568 | J3 | 3418 | G4 | 5016 | D4 |
| 2213 | I7 | 2589 | H4 | 3421 | G2 | 5017 | C7 |
| 2214 | K7 | 2590 | J4 | 3424 | G2 | 5018 | G6 |
| 2215 | I6 | 2593 | H4 | 3425 | F3 | 5020 | H6 |
| 2216 | H6 | 2594 | J4 | 3432 | F7 | 5027 | J2 |
| 2217 | I7 | 2595 | H4 | 3433 | F3 | 5039 | K1 |
| 2218 | H7 | 2596 | J4 | 3434 | G5 | 5400 | D6 |
| 2223 | I8 | 2597 | J5 | 3435 | G5 | 5401 | D8 |
| 2234 | I7 | 2611 | L8 | 3436 | G5 | 5402 | G8 |
| 2235 | H7 | 2612 | L8 | 3437 | G5 | 5407 | H8 |
| 2236 | G8 | 2622 | I8 | 3438 | F4 | 5408 | D4 |
| 2238 | H8 | 2625 | J7 | 3439 | F2 | 5409 | G3 |
| 2240 | H1 | 2626 | J8 | 3440 | F3 | 5410 | G2 |
| 2282 | F6 | 2628 | J6 | 3441 | F6 | 5411 | D2 |
| 2400 | G7 | 2641 | H7 | 3442 | F8 | 5412 | B3 |
| 2406 | E8 | 2642 | H6 | 3443 | F3 | 5413 | B3 |
| 2407 | F8 | 2708 | I5 | 3445 | F3 | 5414 | B3 |
| 2408 | F7 | 2923 | H6 | 3447 | D7 | 5415 | B2 |
| 2409 | F8 | 2924 | H7 | 3448 | E6 | 5621 | J7 |
| 2411 | C7 | 2926 | J8 | 3450 | I2 | 5701 | I4 |
| 2412 | G7 | 2928 | K8 | 3451 | I2 | 5702 | I4 |
| 2413 | F6 | 2958 | L3 | 3452 | F3 | 5705 | H3 |
| 2414 | F6 | 2963 | L3 | 3453 | E2 | 5706 | I2 |
| 2415 | E7 | 2967 | L3 | 3462 | K3 | 5709 | J1 |
| 2417 | F6 | 2968 | L3 | 3463 | K2 | 5710 | J1 |
| 2418 | E6 | 2969 | K5 | 3464 | K2 | 6207 | A4 |
| 2421 | G6 | 2970 | K5 | 3465 | K2 | 6208 | B4 |
| 2422 | E7 | 2971 | K3 | 3466 | E2 | 6209 | B5 |
| 2424 | F7 | 2972 | L5 | 3467 | E6 | 6210 | B5 |
| 2426 | E6 | 2973 | L3 | 3468 | F7 | 6211 | B5 |
| 2427 | G6 | 2974 | L1 | 3469 | F3 | 6212 | A6 |
| 2428 | E7 | 2977 | K5 | 3470 | F6 | 6401 | F6 |
| 2430 | C7 | 2978 | K4 | 3471 | F2 | 6402 | F2 |
| 2431 | E6 | 2981 | I2 | 3507 | H4 | 7201 | H5 |
| 2433 | F7 | 3207 | G8 | 3508 | J4 | 7205 | I7 |
| 2436 | F7 | 3208 | G8 | 3525 | I4 | 7207 | H8 |
| 2437 | G3 | 3209 | G8 | 3527 | I3 | 7211 | I1 |
| 2441 | E1 | 3210 | H8 | 3528 | I3 | 7212 | H2 |
| 2443 | E5 | 3218 | H6 | 3529 | H3 | 7402 | G4 |
| 2444 | F4 | 3219 | H7 | 3530 | I3 | 7403 | G5 |
| 2445 | F3 | 3222 | I6 | 3543 | H4 | 7408 | K2 |
| 2446 | G4 | 3223 | I6 | 3544 | J4 | 7409 | L2 |
| 2448 | C4 | 3224 | I7 | 3545 | H4 | 7603 | L8 |
| 2449 | G4 | 3225 | I7 | 3546 | J4 | 7604 | K8 |
| 2450 | G2 | 3230 | I6 | 3547 | H3 | 7610 | L4 |
| 2451 | F2 | 3231 | I7 | 3548 | J3 | 7611 | H1 |
| 2452 | E3 | 3242 | L2 | 3549 | H3 | 7621 | J8 |
| 2454 | F2 | 3243 | L2 | 3550 | J3 | 7622 | I8 |
| 2455 | E2 | 3247 | I1 | 3591 | H4 | 7624 | I7 |
| 2458 | G2 | 3253 | M6 | 3592 | J4 | | |
| 2459 | E3 | 3254 | G8 | 3593 | H4 | | |
| 2461 | F3 | 3255 | H8 | 3594 | J4 | | |
| 2463 | E2 | 3258 | K2 | 3601 | K7 | | |
| 2464 | G2 | 3259 | L2 | 3602 | K7 | | |
| 2465 | E3 | 3301 | K5 | 3607 | K7 | | |
| 2467 | C3 | 3303 | K5 | 3608 | K7 | | |
| 2468 | E2 | 3304 | L4 | 3613 | K8 | | |
| 2472 | G5 | 3306 | K3 | 3614 | K8 | | |
| 2473 | F3 | 3307 | K4 | 3621 | J8 | | |
| 2474 | F3 | 3317 | L1 | 3622 | J8 | | |
| 2477 | G5 | 3318 | L1 | 3623 | I8 | | |
| 2482 | F7 | 3321 | K1 | 3624 | I8 | | |
| 2483 | F3 | 3322 | K2 | 3625 | I8 | | |
| 2488 | L2 | 3323 | K2 | 3626 | I8 | | |

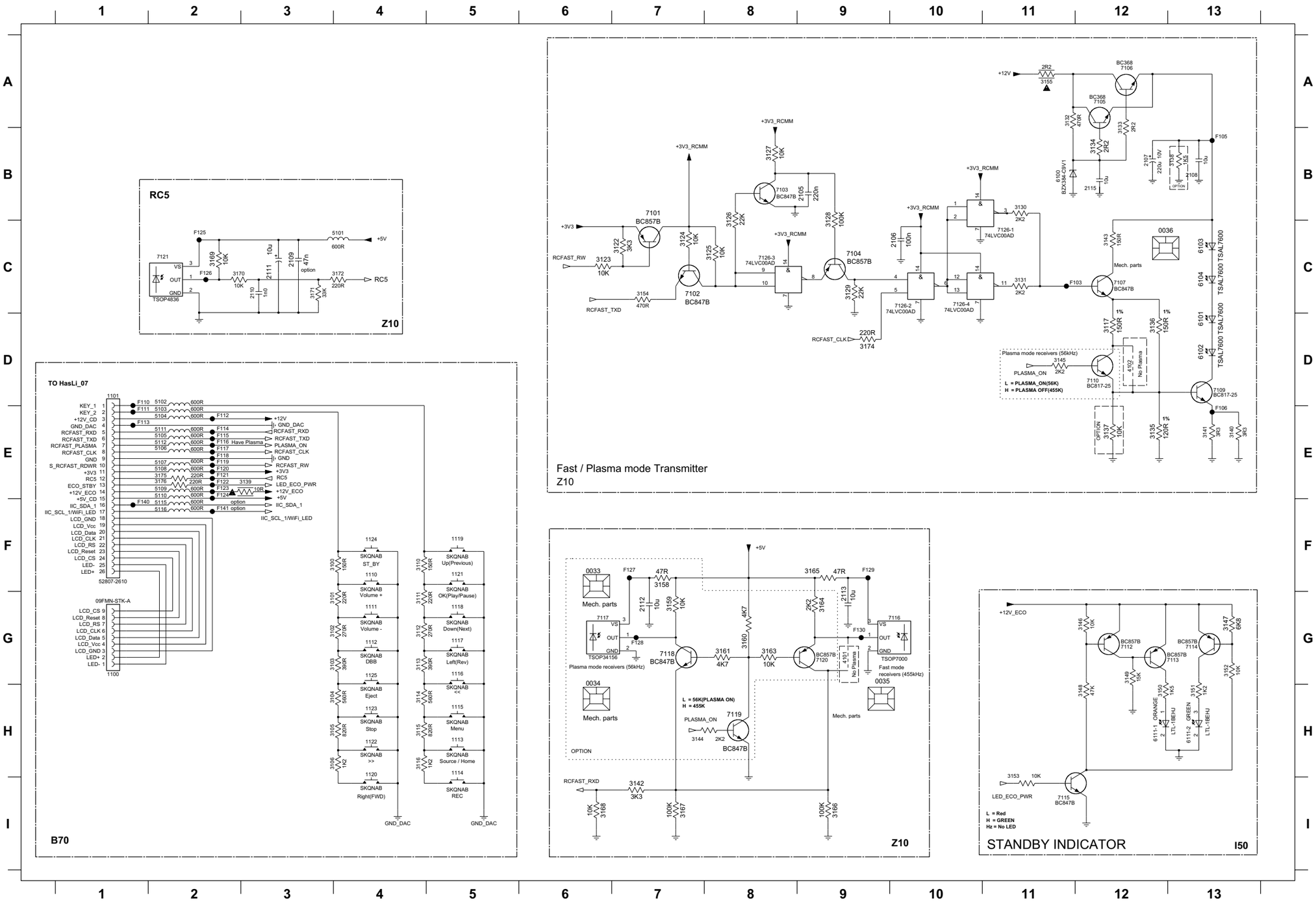
7-6

## PB - AF&AMP - Layout Diagram - Bottom View



8-1

# PB - Keys & IR - Circuit Diagram

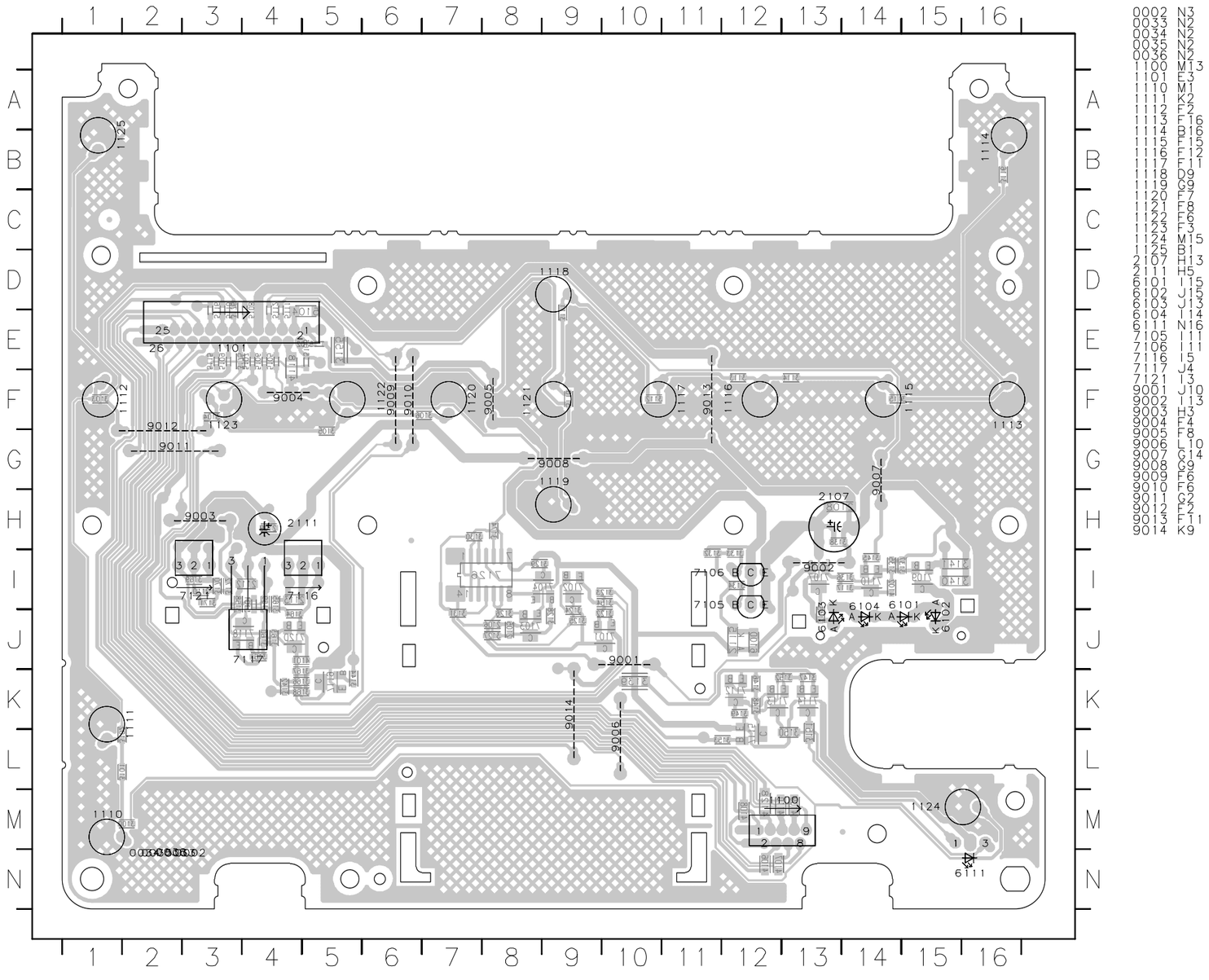



0033 F6
0034 H6
0035 G9
0036 C12
1100 G1
1101 D1
1110 F4
1111 G4
1112 G4
1113 H5
1114 H5
1115 H5
1116 G5
1117 G5
1118 G5
1119 F5
1120 H4
1121 F5
1122 H4
1123 H4
1124 F4
1125 G4
2105 B9
2106 C10
2107 B12
2108 B13
2109 C3
2110 C3
2111 C3
2112 G7
2113 G9
2115 B12
3100 F4
3101 G4
3102 G4
3103 G4
3104 H4
3105 H4
3106 H4
3110 F4
3111 G4
3112 G4
3113 G4
3114 H4
3115 H4
3116 H4
3117 D12
3122 C7
3123 C6
3124 C7
3125 C8
3126 B8
3127 B8
3128 B9
3129 C9
3130 B11
3131 C11
3132 A11
3133 B12
3134 B12
3135 E12
3136 D12
3137 E12
3138 B13
3139 E3
3140 E13
3141 E13
3142 I7
3143 C12
3144 H7
3145 D11
3146 G12
3147 G13
3148 H12
3149 G12
3150 H12
3151 H13
3152 G13
3153 H11
3154 C7
3155 A11
3158 F7
3159 G7
3160 G8
3161 G8
3163 G8
3164 G9
3165 F9
3166 I9
3167 I7
3168 I6
3169 C2
3170 C2
3171 C3
3172 C4
3174 D9
3175 E2
3176 E2
4101 G9
4102 D12
5101 C4
5102 D2
5103 E2
5104 E2
5105 E2
5106 E2
5107 E2
5108 E2
5109 E2
5110 E2
5111 E2
5112 E2
5115 F2
5116 F2
6100 B11
6101 D13
6102 D13
6103 C13
6104 C13
6111-1 H12
6111-2 H13
7101 B7
7102 C7
7103 B8
7104 C9
7105 A12
7106 A12
7107 C12
7109 D13
7110 D12
7112 G12
7113 G12
7114 G13
7115 I11
7116 G10
7117 G6
7118 G7
7119 H8
7120 G9
7121 C2
7126-1 C11
7126-2 C10
7126-3 C8
7126-4 C10
F103 C12
F105 B13
F106 E13
F110 D1
F111 E1
F112 E2
F113 E1
F114 E2
F115 E2
F116 E2
F117 E2
F118 E2
F119 E2
F120 E2
F121 E2
F122 E2
F123 E2
F124 E2
F125 C2
F126 C2
F127 F7
F128 G7
F129 F9
F130 G9
F140 F1
F141 F2

0002
PROCESS BOX

8-2

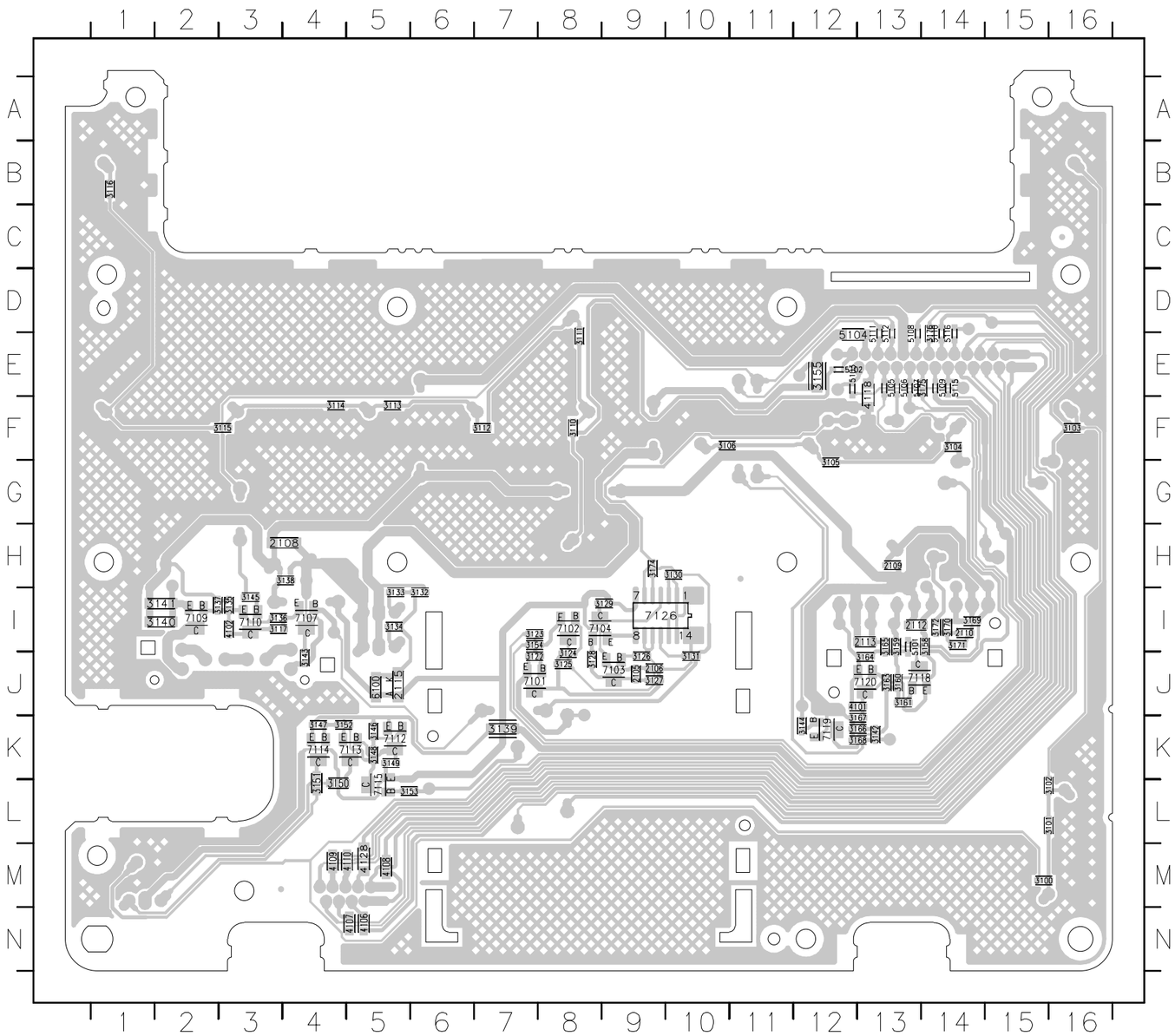
## PB - Keys & IR - Layout Diagram - Top View




0002 N3
0033 N2
0034 N2
0035 N2
0036 N2
1100 M13
1101 E3
1110 M1
1111 K2
1112 F2
1113 F16
1114 B16
1115 F15
1116 F12
1117 F11
1118 D9
1119 G9
1120 F7
1121 F8
1122 F6
1123 F3
1124 M15
1125 B1
2107 H13
2111 H5
6101 I15
6102 J15
6103 J13
6104 I14
6111 N16
7105 I11
7106 I11
7116 I5
7117 J4
7121 I3
9001 J10
9002 J13
9003 I3
9004 F4
9005 F8
9006 L10
9007 G14
9008 G9
9009 F6
9010 F6
9011 G2
9012 F2
9013 F11
9014 K9

8-3

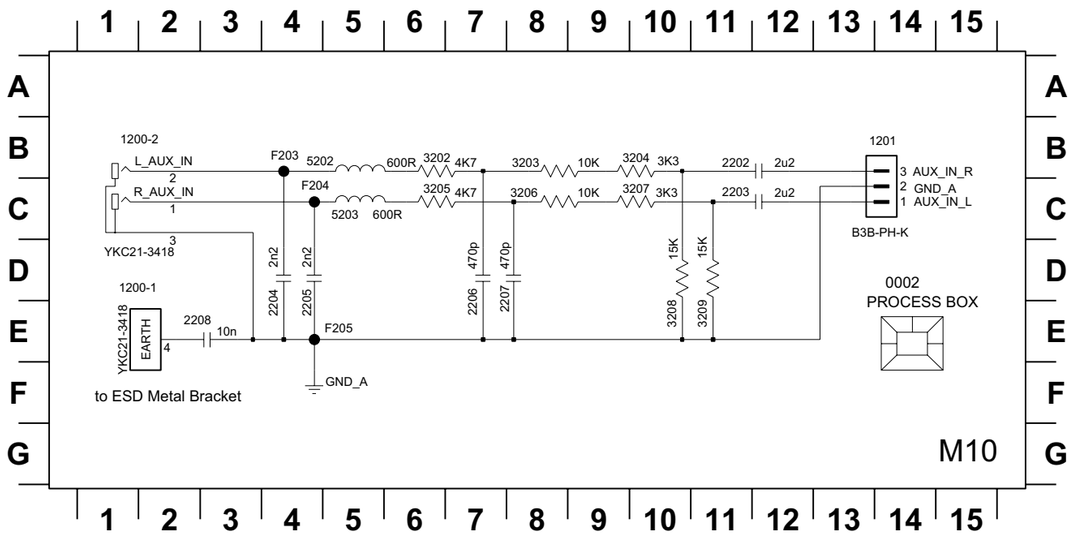
# PB - Keys & IR - Layout Diagram - Bottom View



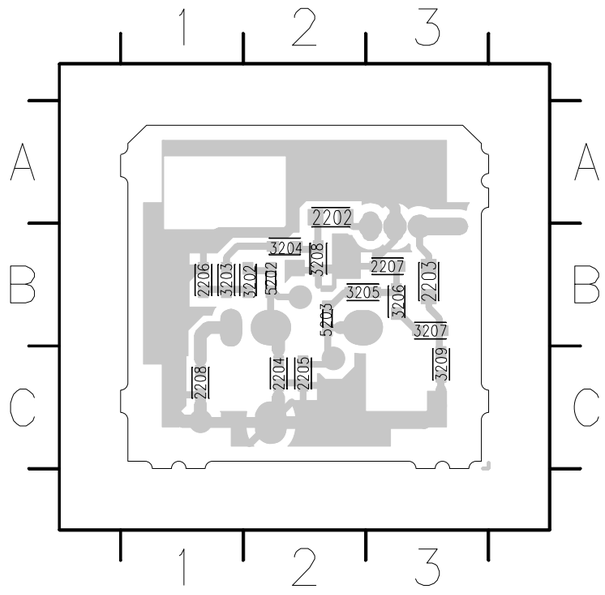

| | | | |
|---|---|---|---|
| 2105 | J9 | 5104 | E12 |
| 2106 | J9 | 5105 | E13 |
| 2108 | H4 | 5106 | E13 |
| 2109 | H13 | 5107 | E13 |
| 2110 | I14 | 5108 | E13 |
| 2112 | I13 | 5109 | E14 |
| 2113 | I13 | 5110 | E14 |
| 2115 | J5 | 5111 | E13 |
| 3100 | M15 | 5112 | E13 |
| 3101 | L15 | 5115 | E14 |
| 3102 | L15 | 5116 | E14 |
| 3103 | F16 | 6100 | J5 |
| 3104 | F14 | 7101 | J7 |
| 3105 | G12 | 7102 | I8 |
| 3106 | F10 | 7103 | J9 |
| 3110 | F8 | 7104 | I8 |
| 3111 | F9 | 7107 | I4 |
| 3112 | F7 | 7109 | I2 |
| 3113 | F5 | 7110 | I3 |
| 3114 | F4 | 7112 | K5 |
| 3115 | F3 | 7113 | K5 |
| 3116 | B1 | 7114 | K4 |
| 3117 | I3 | 7115 | L5 |
| 3122 | J7 | 7118 | J13 |
| 3123 | I7 | 7119 | K12 |
| 3124 | J8 | 7120 | J13 |
| 3125 | J8 | 7126 | I9 |
| 3126 | J9 | | |
| 3127 | J9 | | |
| 3128 | J8 | | |
| 3129 | I9 | | |
| 3130 | H10 | | |
| 3131 | J10 | | |
| 3132 | I9 | | |
| 3133 | I9 | | |
| 3134 | I5 | | |
| 3135 | I3 | | |
| 3136 | I3 | | |
| 3137 | I2 | | |
| 3138 | H4 | | |
| 3139 | K7 | | |
| 3140 | I2 | | |
| 3141 | I2 | | |
| 3142 | K13 | | |
| 3143 | J4 | | |
| 3144 | K12 | | |
| 3145 | I3 | | |
| 3146 | K5 | | |
| 3147 | K4 | | |
| 3148 | K5 | | |
| 3149 | K5 | | |
| 3150 | L4 | | |
| 3151 | L4 | | |
| 3152 | K4 | | |
| 3153 | L5 | | |
| 3154 | I7 | | |
| 3155 | E12 | | |
| 3158 | I14 | | |
| 3159 | I13 | | |
| 3160 | J13 | | |
| 3161 | J13 | | |
| 3162 | J13 | | |
| 3163 | J13 | | |
| 3164 | I13 | | |
| 3165 | K13 | | |
| 3166 | K13 | | |
| 3167 | K13 | | |
| 3168 | K13 | | |
| 3169 | I14 | | |
| 3170 | I14 | | |
| 3171 | I14 | | |
| 3172 | I14 | | |
| 3174 | H9 | | |
| 3175 | E14 | | |
| 3176 | E14 | | |
| 4101 | J13 | | |
| 4102 | I3 | | |
| 4106 | N5 | | |
| 4107 | N5 | | |
| 4108 | M5 | | |
| 4109 | M4 | | |
| 4110 | M5 | | |
| 4118 | E13 | | |
| 4128 | M5 | | |
| 5101 | I13 | | |
| 5102 | E12 | | |
| 5103 | E12 | | |

# PB - Audio in/out

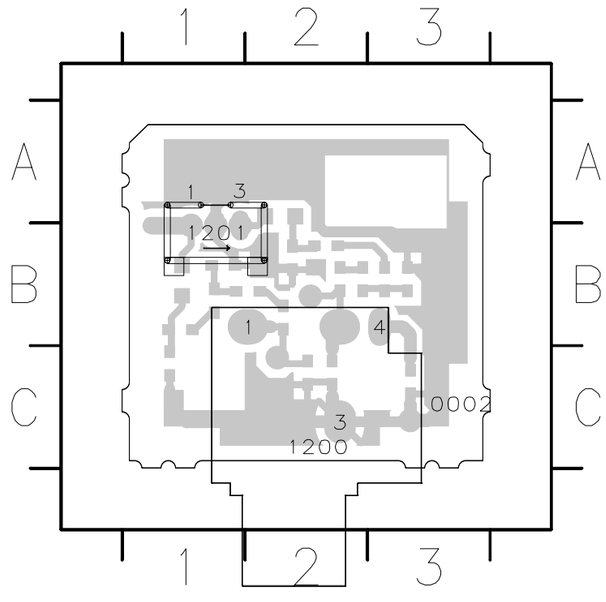
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 0002 D14 | 1201 B13 | 2204 E4 | 2207 D8 | 3203 B8 | 3206 C8 | 3209 E11 | F203 B4 |
| 1200-1 B2 | 2202 B11 | 2205 E4 | 2208 E2 | 3204 B10 | 3207 C10 | 5202 B4 | F204 C4 |
| 1200-2 D1 | 2203 C11 | 2206 E7 | 3202 B6 | 3205 C6 | 3208 E10 | 5203 C5 | F205 E5 |





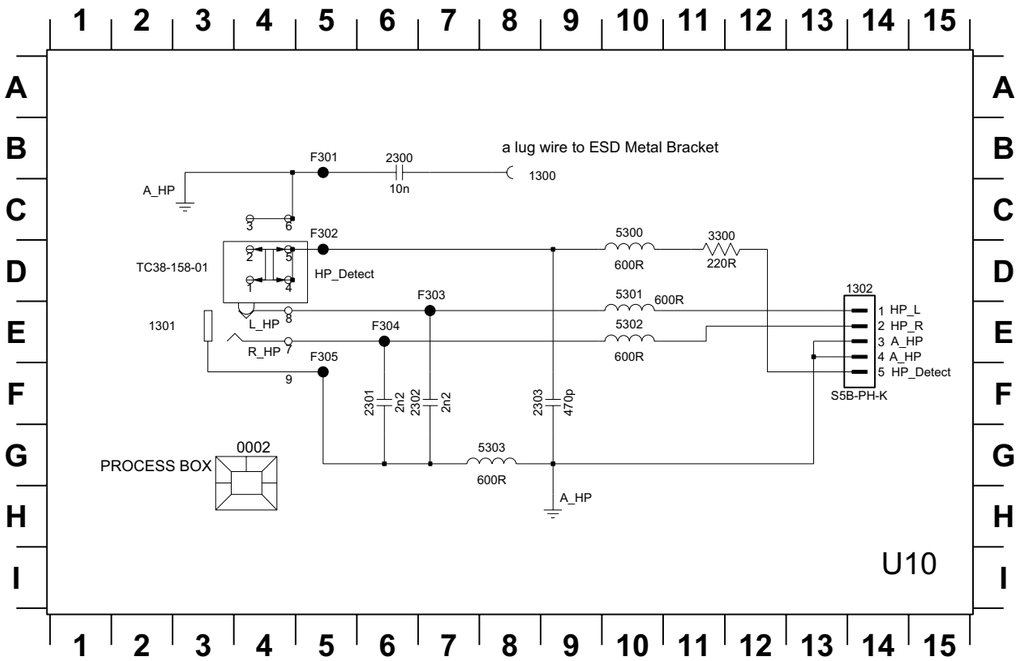

| | |
|---|---|
| 2202 | A2 |
| 2203 | B3 |
| 2204 | C2 |
| 2205 | C2 |
| 2206 | B1 |
| 2207 | B3 |
| 2208 | C1 |
| 3202 | B2 |
| 3203 | B1 |
| 3204 | B2 |
| 3205 | B2 |
| 3206 | B3 |
| 3207 | B3 |
| 3208 | B2 |
| 3209 | C3 |
| 5202 | B2 |
| 5203 | B2 |

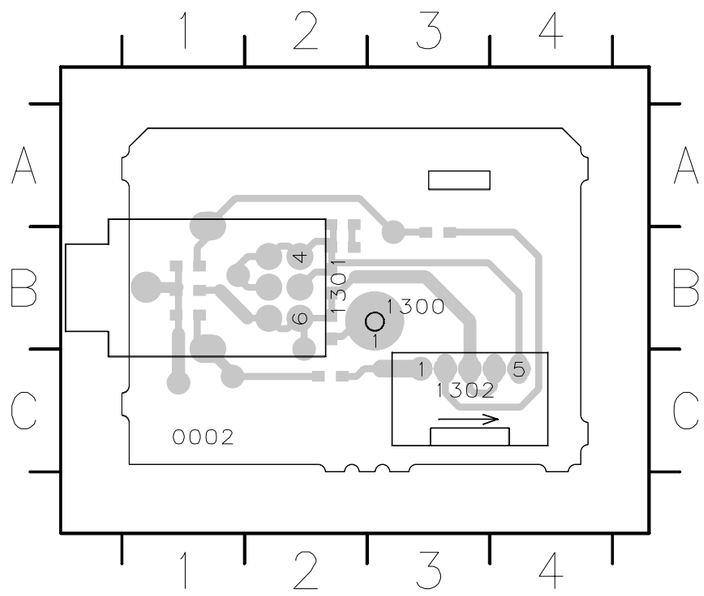



| | |
|---|---|
| 0002 | C3 |
| 1200 | C2 |
| 1201 | B1 |

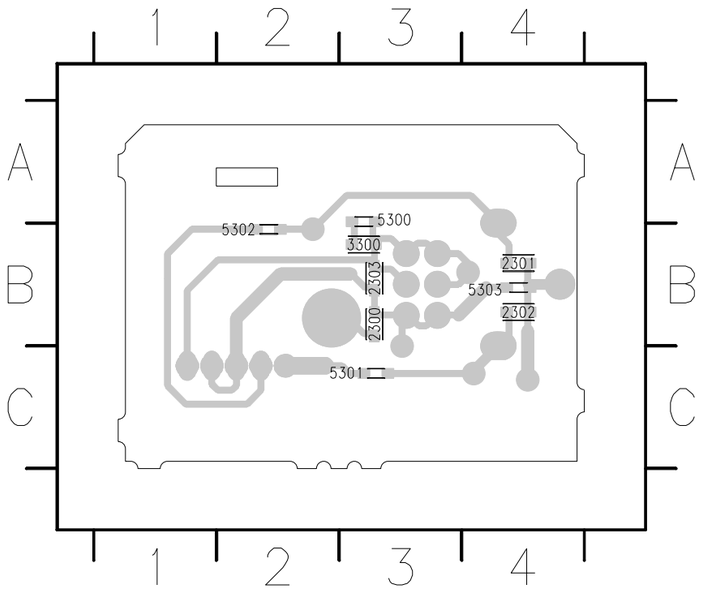
# PB - Headphone

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 0002 G4 | 1301 E2 | 2300 B6 | 2302 F7 | 3300 C11 | 5301 D10 | 5303 G8 | F302 C5 | F304 E6 |
| 1300 B9 | 1302 D14 | 2301 F6 | 2303 F9 | 5300 C10 | 5302 E10 | F301 B5 | F303 D7 | F305 E5 |



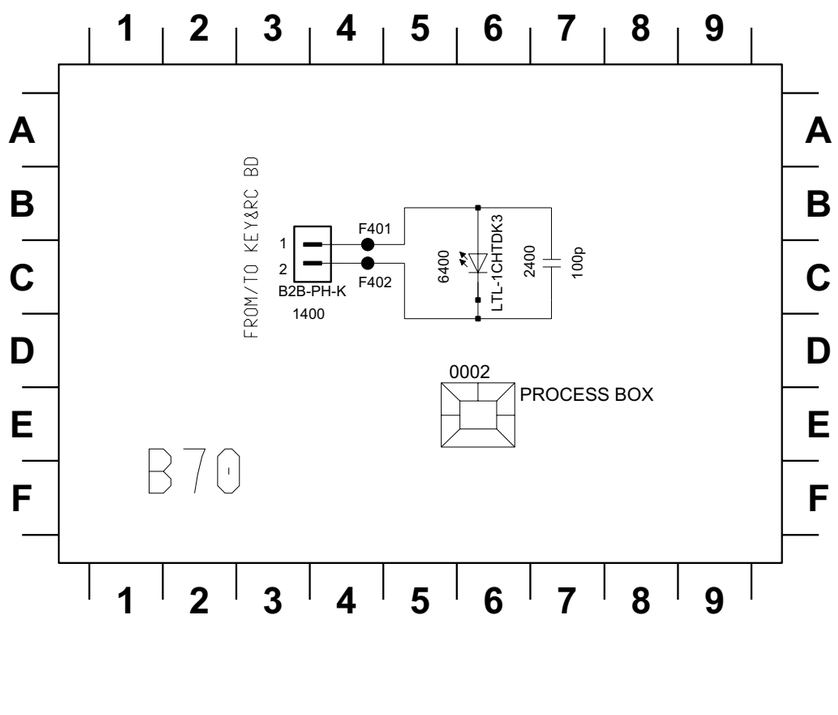

0002 C1
1300 B3
1301 B2
1302 C3



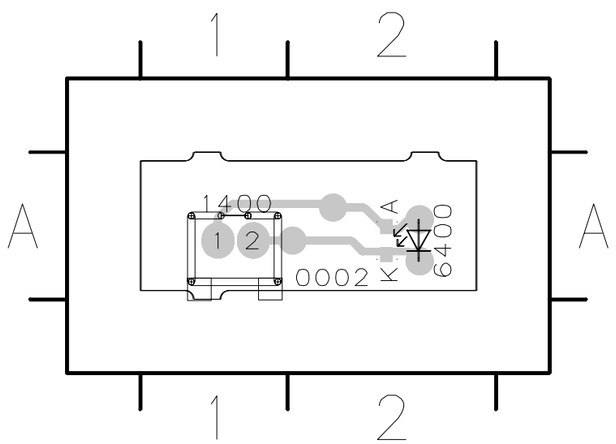

2300 B3
2301 B4
2302 B4
2303 B3
3300 B3
5300 A3
5301 C3
5302 B2
5303 B4

# PB - Wifi - Light

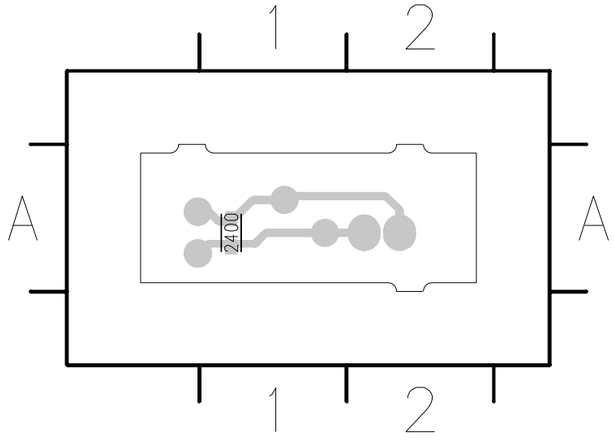
**1400 B3  2400 C7  6400 C6  F401 B4  F402 C4**




11-1




0002 A2
1400 A1
6400 A2




2400 A1

12-1

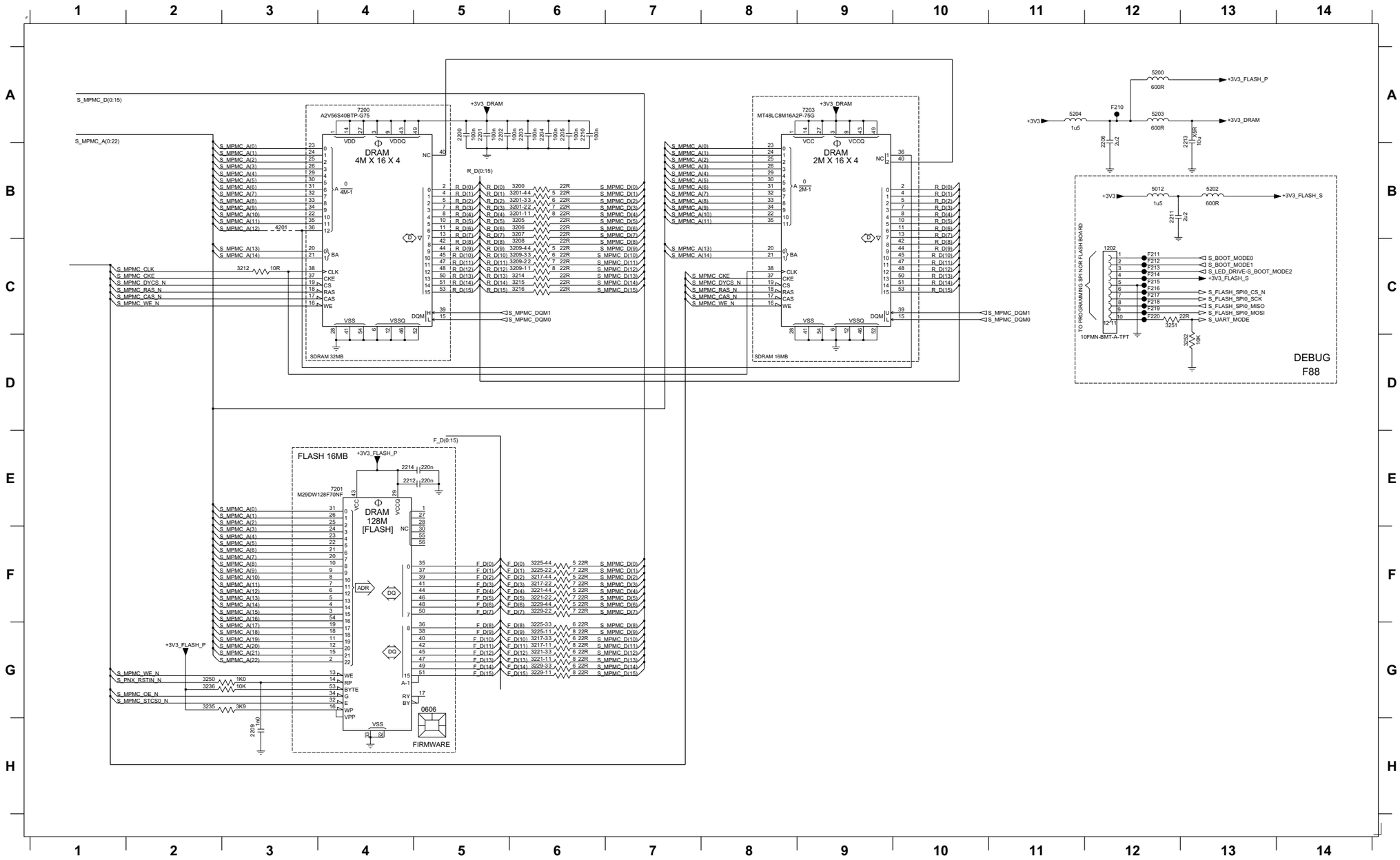
# PB - Wessli - 08 - Circuit Diagram - molody part


| | | |

12-2

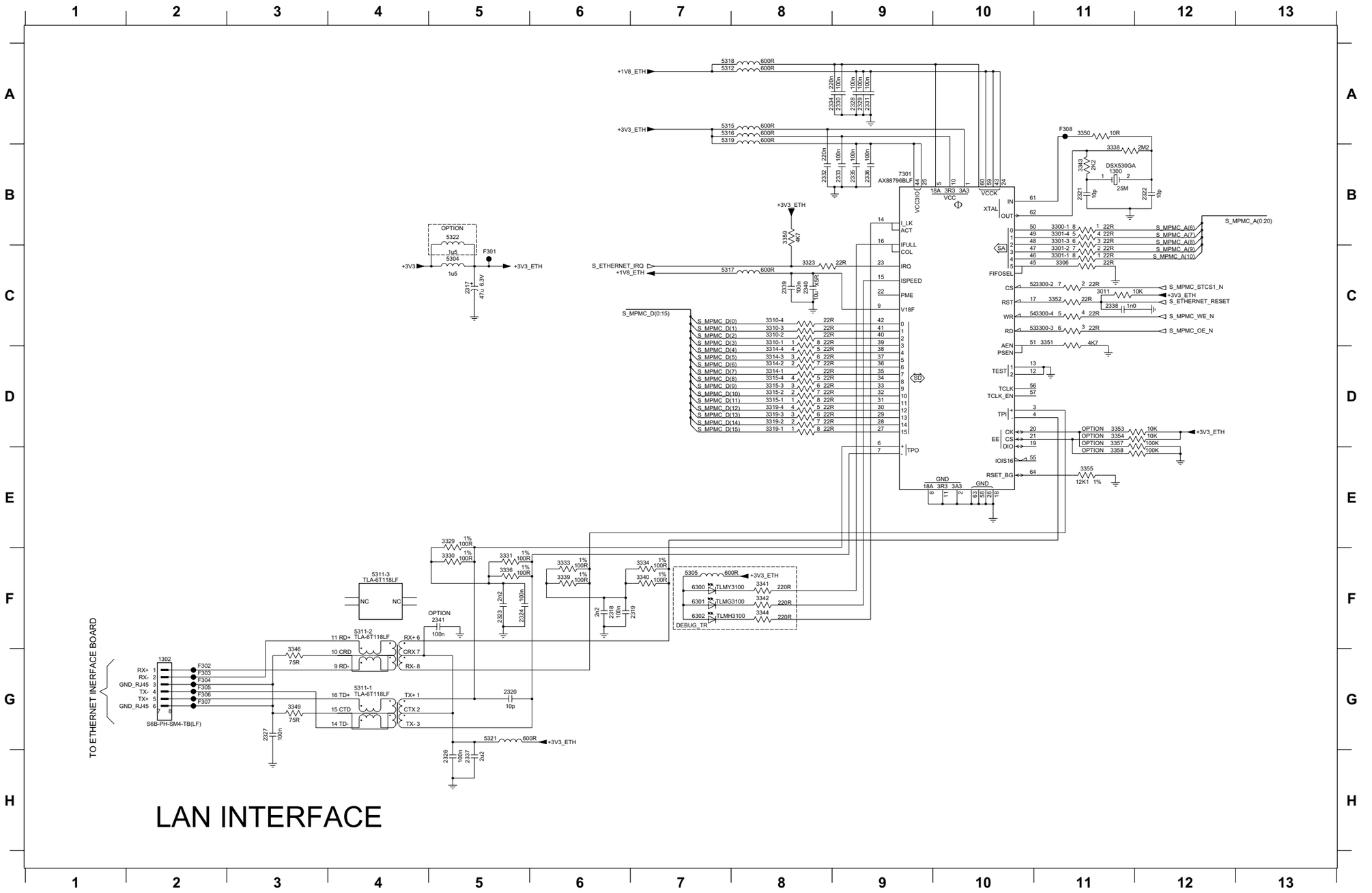
# PB - Wessli - 08 - Circuit Diagram - Flash & SDRAM part


0606 G5 2201 A5 2204 A6 2209 H3 2212 E4 3200 B6 3201-3 B6 3206 B6 3209-1 C6 3209-4 C6 3215 C6 3217-2 F5 3221-1 G5 3221-4 F5 3225-3 G5 3229-2 F5 3235 G3 3251 C12 5012 B12 5203 A12 7201 E4 F211 C12 F214 C12 F217 C12 F220 C12
1202 C12 2202 A5 2205 A6 2210 A6 2213 A13 3201-1 B6 3201-4 B6 3207 B6 3209-2 C6 3212 C3 3216 C6 3217-3 G5 3221-2 F5 3225-1 G5 3225-4 F5 3229-3 G5 3236 G3 4201 B3 5200 A12 5202 B13 5204 A11 7200 A4 7203 A9 F210 A12 F212 C12 F215 C12 F218 C12
2200 A5 2203 A6 2206 A12 2211 B12 2214 E4 3201-2 B6 3205 B6 3208 C6 3209-3 C6 3214 C6 3217-1 G5 3217-4 F5 3221-3 G5 3225-2 F5 3229-1 G5 3229-4 F5 3250 G3 5202 B13 7200 A4 7203 A9 F210 A12 F213 C12 F216 C12 F219 C12

12-3

# PB - Wessli - 08 - Circuit Diagram - Ethernet part

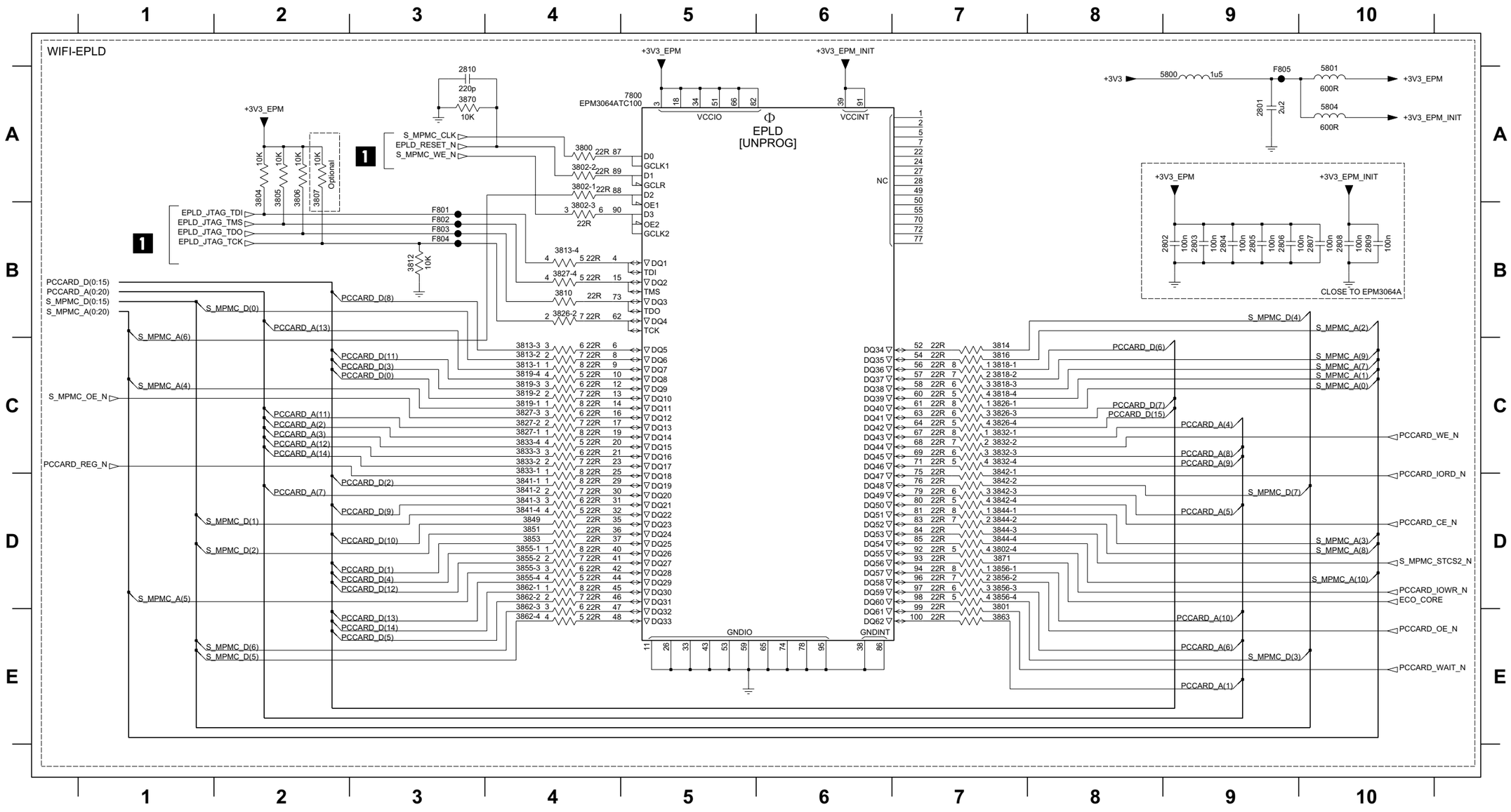



1300 B11 F307 G2
1302 G2 F308 A11
2317 C5
2318 F6
2319 F7
2320 G5
2321 B11
2322 B12
2323 F5
2324 F5
2326 H5
2327 G3
2328 A9
2329 A9
2330 A9
2331 A9
2332 B8
2333 B9
2334 A9
2335 B9
2336 B9
2337 H5
2338 C11
2339 C8
2340 C8
2341 F5
3011 C11
3300-1 B11
3300-2 C11
3300-3 C11
3300-4 C11
3301-1 C11
3301-2 C11
3301-3 B11
3301-4 B11
3306 C11
3310-1 C8
3310-2 C8
3310-3 C8
3310-4 C8
3314-1 D8
3314-2 D8
3314-3 D8
3314-4 D8
3315-1 D8
3315-2 D8
3315-3 D8
3315-4 D8
3319-1 D8
3319-2 D8
3319-3 D8
3319-4 D8
3323 C8
3329 E5
3330 F5
3331 F5
3333 F6
3334 F7
3336 F5
3338 B11
3339 F6
3340 F7
3341 F8
3342 F8
3343 B11
3344 F8
3346 G3
3349 G3
3350 A11
3351 C11
3352 C11
3353 D11
3354 D11
3355 E11
3357 D11
3358 E11
3359 B8
5304 C5
5305 F7
5311-1 G4
5311-2 F4
5311-3 F4
5312 A7
5315 A7
5316 A7
5317 C7
5318 A7
5319 A7
5321 G5
5322 B5
6300 F7
6301 F7
6302 F7
7301 B9
F301 C5
F302 G2
F303 G2
F304 G2
F305 G2
F306 G2

12-4

# PB - Wessli - 08 - Circuit Diagram - EPLD part

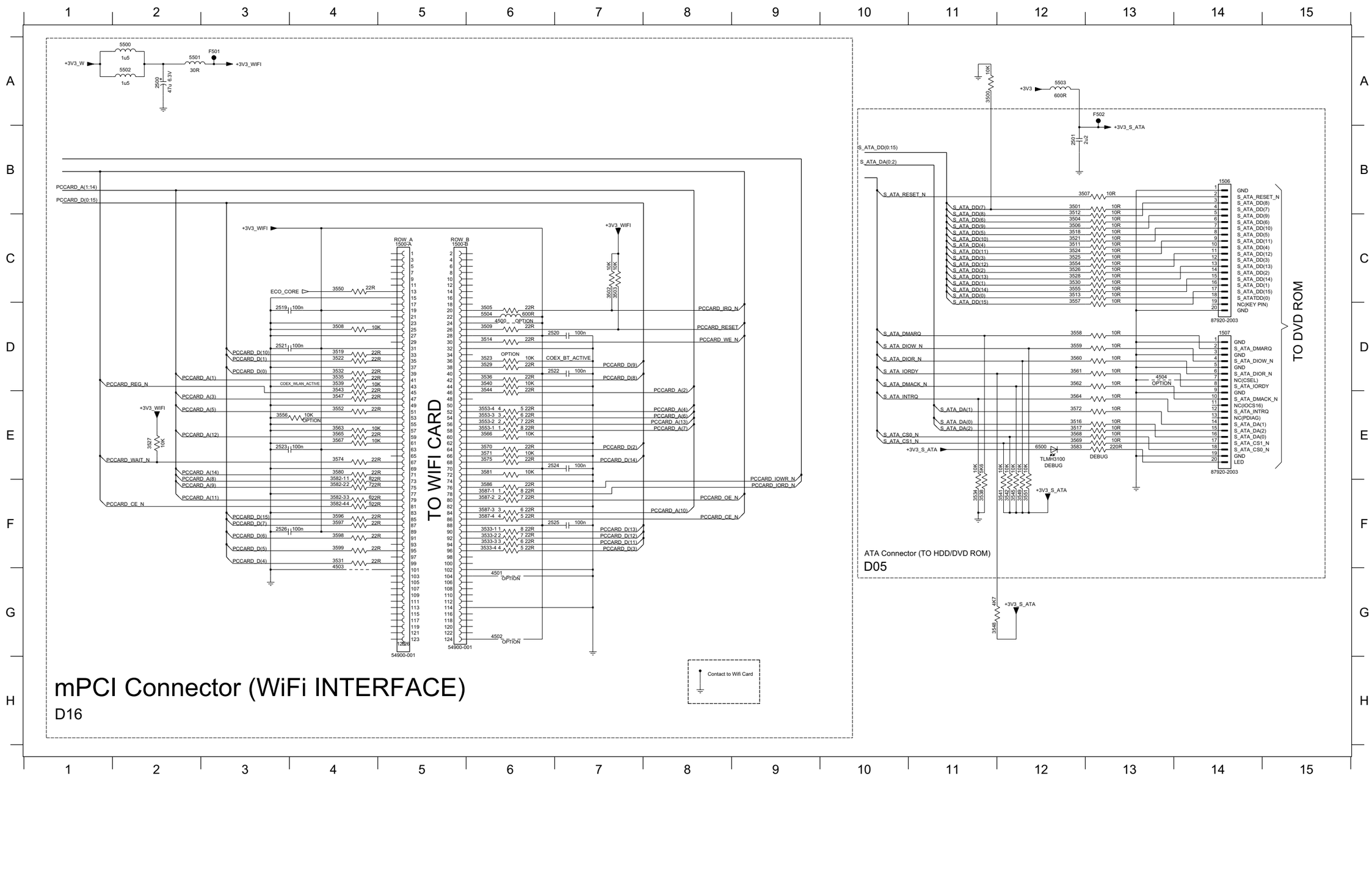
| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2801 A9 | 2806 B9 | 3800 A4 | 3802-4 D7 | 3810 B4 | 3813-4 B4 | 3818-3 C7 | 3819-4 C4 | 3827-1 C4 | 3832-2 C7 | 3833-3 C4 | 3841-4 D4 | 3844-1 D7 | 3851 D4 | 3855-4 D4 | 3862-1 D4 | 3870 A3 | 7800 A5 | F805 A9 |
| 2802 B9 | 2807 B10 | 3801 E7 | 3804 A2 | 3812 B3 | 3814 C7 | 3818-4 C7 | 3826-1 C7 | 3827-2 C4 | 3832-3 C7 | 3833-4 C4 | 3842-1 D7 | 3844-2 D7 | 3853 D4 | 3856-1 D7 | 3862-2 D4 | 3871 D7 | F801 B3 | |
| 2803 B9 | 2808 B10 | 3802-1 A4 | 3805 A2 | 3813-1 C4 | 3816 C7 | 3819-1 C4 | 3826-2 B4 | 3827-3 C4 | 3832-4 C7 | 3841-1 D4 | 3842-2 D7 | 3844-3 D7 | 3855-1 D4 | 3856-2 D7 | 3862-3 E4 | 5800 A9 | F802 B3 | |
| 2804 B9 | 2809 B10 | 3802-2 A4 | 3806 A2 | 3813-2 C4 | 3818-1 C7 | 3819-2 C4 | 3826-3 C7 | 3827-4 B4 | 3833-1 D4 | 3841-2 D4 | 3842-3 D7 | 3844-4 D7 | 3855-2 D4 | 3856-3 D7 | 3862-4 E4 | 5801 A10 | F803 B3 | |
| 2805 B9 | 2810 A3 | 3802-3 B4 | 3807 A2 | 3813-3 C4 | 3818-2 C7 | 3819-3 C4 | 3826-4 C7 | 3832-1 C7 | 3833-2 C4 | 3841-3 D4 | 3842-4 D7 | 3849 D4 | 3855-3 D4 | 3856-4 D7 | 3863 E7 | 5804 A10 | F804 B3 | |



12-5

# PB - Wessli - 08 - Circuit Diagram - mPCI & ATA Connector part

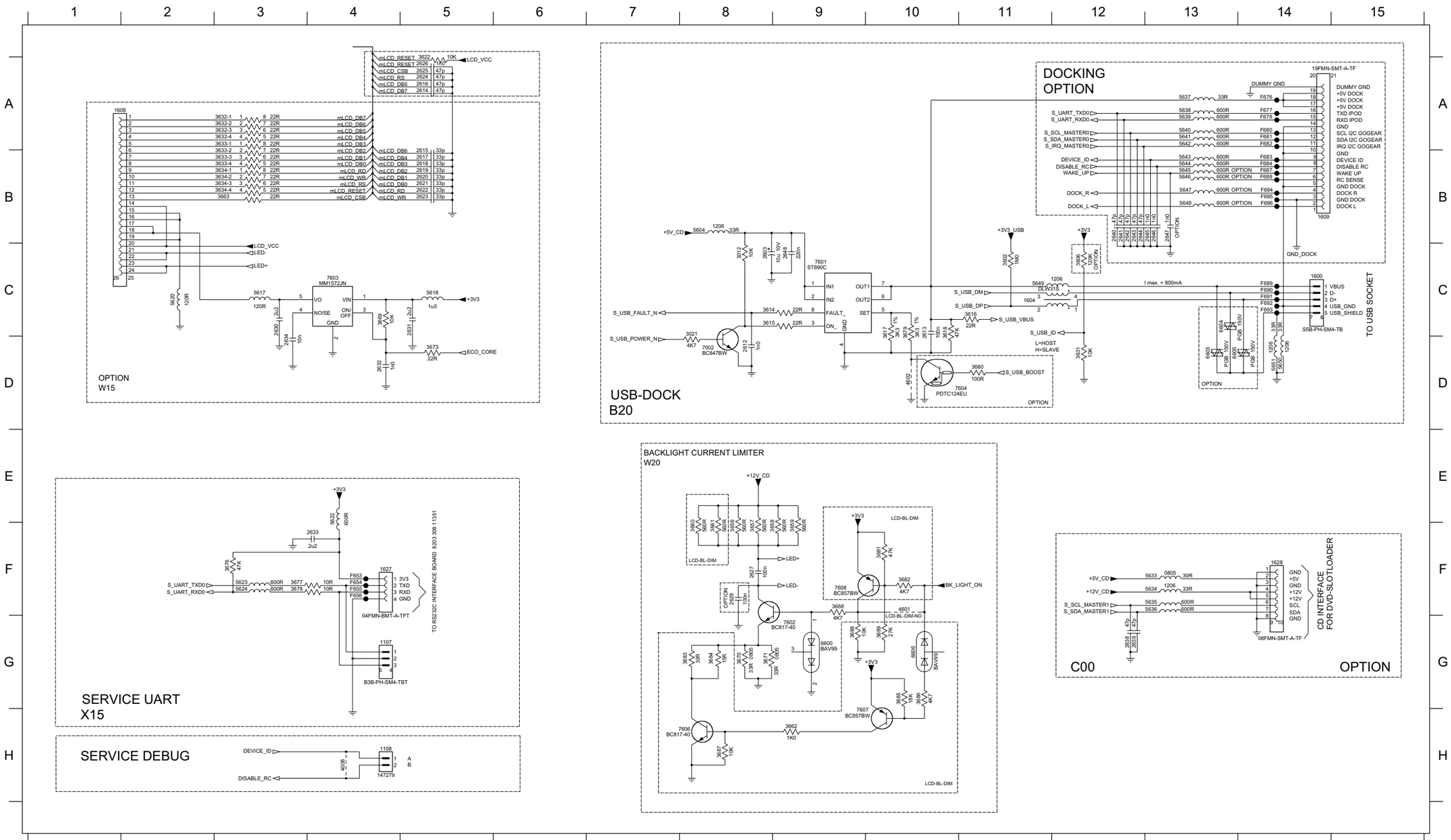
1500-A C5 2500 A2 2521 D3 2525 F6 3502 C7 3506 C12 3511 C12 3516 E12 3521 C12 3525 C12 3529 D6 3533-1 F6 3534 F11 3539 D4 3543 E4 3548 G11 3552 E4 3553-4 E6 3557 D12 3561 D12 3565 E4 3569 E12 3574 E4 3582-1 F4 3583 E12 3587-3 F6 3598 F4 4502 G6 5501 A2 6500 E12
1500-B C5 2501 B12 2522 D6 2526 F3 3503 C7 3507 B12 3512 C12 3517 E12 3522 D4 3526 C12 3530 C12 3533-2 F6 3535 D4 3540 D6 3544 E6 3549 F12 3553-1 E6 3554 C12 3558 D12 3562 D12 3566 E6 3570 E6 3575 E6 3582-2 F4 3586 F6 3587-4 F6 3599 F4 4503 G4 5502 A2 F501 A3
1506 B14 2519 D3 2523 E3 3500 A11 3504 C12 3508 D4 3513 C12 3518 C12 3523 D6 3527 E2 3531 F4 3533-3 F6 3536 D6 3541 F12 3545 F12 3550 C4 3553-2 E6 3555 C12 3559 D12 3563 E4 3567 E4 3571 E6 3580 E4 3582-3 F4 3587-1 F6 3596 F4 4500 D6 4504 D13 5503 A12 F502 A13
1507 D14 2520 D6 2524 E6 3501 B12 3505 D6 3509 D6 3514 D6 3519 D4 3524 C12 3528 C12 3532 D4 3533-4 F6 3538 F11 3542 F12 3547 E4 3551 F12 3553-3 E6 3556 E3 3560 D12 3564 E12 3568 E12 3572 E12 3581 E6 3582-4 F4 3587-2 F6 3597 F4 4501 G6 5500 A2 5504 D6



12-6

# **PB - Wessli - 08 - Circuit Diagram -** I/O Interface **part**

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1107 G4 | 1627 F4 | 2615 B5 | 2621 B5 | 2627 F8 | 2634 D3 | 2643 B12 | 3012 C8 | 3616 C11 | 3632-2 A3 | 3633-4 B3 | 3657 F8 | 3663 B3 | 3676 F3 | 3682 F10 | 3688 G9 | 5617 C3 | 5633 F13 | 5639 A13 | 5645 B13 | 5651 D14 | 7002 D8 | 7607 G10 | F676 A14 | F683 B14 | F691 C14 |
| 1108 H4 | 1628 F14 | 2616 A5 | 2622 B5 | 2629 F8 | 2638 G12 | 2644 B12 | 3021 C8 | 3617 C10 | 3632-3 A3 | 3634-1 B3 | 3658 F9 | 3668 F9 | 3677 F3 | 3683 G8 | 3689 G10 | 5618 C5 | 5634 F13 | 5640 A13 | 5646 B13 | 6600 G9 | 7601 C9 | 7608 F9 | F677 A14 | F684 B14 | F692 C14 |
| 1600 C14 | 2603 C8 | 2617 B5 | 2623 B5 | 2630 C3 | 2639 G12 | 2645 B13 | 3602 C11 | 3618 C10 | 3632-4 A3 | 3634-2 B3 | 3659 F9 | 3669 C4 | 3678 F3 | 3684 G8 | 4008 H4 | 5620 C2 | 5635 F13 | 5641 A13 | 5647 B13 | 6603 D13 | 7602 G9 | F653 F4 | F678 A14 | F687 B14 | F693 C14 |
| 1604 C11 | 2612 D8 | 2618 B5 | 2624 A5 | 2631 C5 | 2640 B12 | 2646 B13 | 3606 C12 | 3622 A5 | 3633-1 A3 | 3634-3 B3 | 3660 F8 | 3670 G8 | 3679 C10 | 3685 G10 | 4601 F10 | 5622 E4 | 5636 F13 | 5642 A13 | 5648 B13 | 6604 C13 | 7603 C4 | F654 F4 | F680 A14 | F688 B14 | F694 B14 |
| 1608 A1 | 2613 C10 | 2619 B5 | 2625 A5 | 2632 D4 | 2641 B12 | 2647 B13 | 3614 C8 | 3631 D12 | 3633-2 B3 | 3634-4 B3 | 3661 F8 | 3671 G8 | 3680 D11 | 3686 G10 | 4602 D10 | 5623 F3 | 5637 A13 | 5643 B13 | 5649 C11 | 6605 D13 | 7604 D11 | F655 F4 | F681 A14 | F689 C14 | F695 B14 |
| 1609 B14 | 2614 A5 | 2620 B5 | 2626 A5 | 2633 F4 | 2642 B12 | 2648 C9 | 3615 C8 | 3632-1 A3 | 3633-3 B3 | 3656 F8 | 3662 H9 | 3673 D5 | 3681 F10 | 3687 H8 | 5604 B8 | 5624 F3 | 5638 A13 | 5644 B13 | 5650 D14 | 6606 G10 | 7606 H8 | F656 F4 | F682 A14 | F690 C14 | F696 B14 |




| Ref Des | LCD-BL-DIM | LCD-BL-DIM-NO |
|---|---|---|
| 3670 | 319802151010<br>0805<br>100R | 319802153390<br>0805<br>33R |
| 3671 | X | 319802153390<br>0805<br>33R |

| BK_LIGHT_ON | DIM NO | DIM |
|---|---|---|
| 1 | ON | OFF |
| HZ | - | MEDIUM |
| 0 | OFF | HIGH |

12-7

# PB - Wessli - 08 - Circuit Diagram - AF part

DIGITAL AUDIO OUTPUT / OPTION
U70

SOURCE SELECTOR / OPTION
M00

LINE IN ISOLATION(GND) / OPTION
M60

iPOD ISOLATION(GND)
M70

POWER_DAC / OPTION
S10

AF OUT ISOLATION(GND)
M50

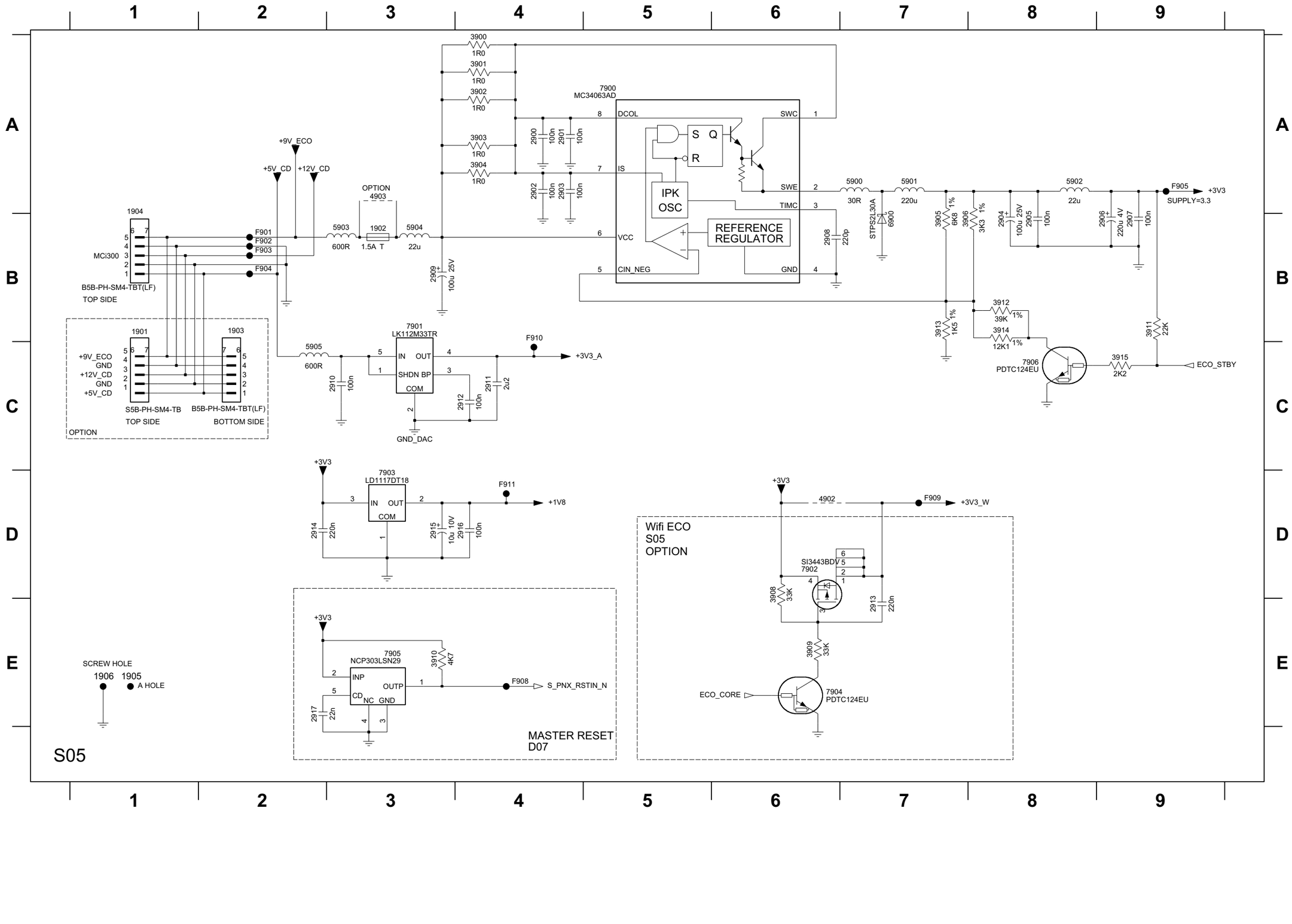
AF OUT
D00

TO AF BOARD

| | | | |
|---|---|---|---|
| 1705 | B8 | 3770 | B4 |
| 1706 | G13 | 3771 | C4 |
| 2703 | B3 | 3772 | C4 |
| 2704 | B3 | 3773 | D4 |
| 2705 | D9 | 3774 | D3 |
| 2706 | E10 | 3775 | E3 |
| 2707 | E8 | 3776 | E3 |
| 2708 | E10 | 3777 | E4 |
| 2709 | E13 | 3778 | E4 |
| 2710 | E10 | 3779 | E4 |
| 2711 | E10 | 3780 | E4 |
| 2712 | E8 | 3781 | E4 |
| 2713 | E10 | 3782 | E4 |
| 2714 | F8 | 3783 | F4 |
| 2715 | F9 | 3784 | F4 |
| 2716 | G8 | 3785 | F4 |
| 2717 | G4 | 3786 | F4 |
| 2719 | G5 | 3787 | I3 |
| 2720 | G8 | 3788 | I3 |
| 2721 | G5 | 3789 | I13 |
| 2722 | G7 | 3790 | I13 |
| 2723 | G4 | 3791 | I13 |
| 2724 | G9 | 3792 | I13 |
| 2725 | H9 | 3793 | E7 |
| 2727 | H7 | 3794 | E7 |
| 2729 | H5 | 4703 | D2 |
| 2731 | H9 | 4706 | I2 |
| 2734 | H7 | 4707 | E2 |
| 2735 | H7 | 4709 | I2 |
| 2736 | H7 | 4711 | G5 |
| 2737 | H4 | 4715 | H5 |
| 2738 | H9 | 4716 | G13 |
| 2739 | H11 | 4717 | G13 |
| 2740 | H5 | 5022 | A6 |
| 2741 | I7 | 5714 | E10 |
| 2742 | H4 | 5715 | E10 |
| 2743 | I9 | 5716 | E10 |
| 2744 | I5 | 5717 | G7 |
| 2745 | G3 | 5719 | H11 |
| 2747 | G11 | 5720 | H1 |
| 2748 | I12 | 5721 | H11 |
| 2749 | I12 | 5724 | H1 |
| 2750 | I12 | 5726 | I7 |
| 2751 | I12 | 5727 | H13 |
| 2752 | I12 | 5730 | H13 |
| 2753 | A12 | 5731 | I13 |
| 2754 | B13 | 5734 | H13 |
| 2755 | B10 | 5735 | H13 |
| 2756 | B13 | 5736 | H13 |
| 2757 | B13 | 5738 | A5 |
| 2758 | B13 | 5740 | A11 |
| 2759 | B10 | 5741 | B12 |
| 2760 | C13 | 5742 | B13 |
| 2762 | C11 | 5743 | B12 |
| 2763 | C12 | 5744 | D4 |
| 2764 | A5 | 5745 | E4 |
| 2765 | B6 | 5746 | E4 |
| 2766 | B7 | 5747 | E4 |
| 2767 | B5 | 5748 | F5 |
| 2768 | D3 | 5750 | G1 |
| 2769 | D3 | 5751 | H1 |
| 2770 | D2 | 6700 | B3 |
| 2771 | E2 | 7704 | E13 |
| 2772 | E3 | 7705 | D9 |
| 2773 | B7 | 7706 | F3 |
| 2774 | C6 | 7707 | G2 |
| 2775 | F5 | 7708-1 | G5 |
| 3706 | B3 | 7708-2 | H5 |
| 3712 | A4 | 7709 | G4 |
| 3713 | B3 | 7710 | G8 |
| 3715 | B4 | 7711 | B3 |
| 3716 | E12 | 7712-1 | A5 |
| 3717 | E12 | 7713 | A12 |
| 3718 | E7 | 7714 | F5 |
| 3719 | E12 | 7715 | D3 |
| 3720 | E12 | 7716 | D4 |
| 3722 | E7 | F702 | B2 |
| 3724 | F2 | F704 | E13 |
| 3725 | F3 | F755 | I12 |
| 3726 | G8 | F762 | E7 |
| 3727 | F2 | F763 | E7 |
| 3729 | G2 | F764 | F5 |
| 3730 | G10 | F765 | B7 |
| 3731 | G6 | F766 | B7 |
| 3732 | H5 | F767 | B7 |
| 3733 | H5 | | |
| 3734 | H11 | | |
| 3735 | H11 | | |
| 3737 | I3 | | |
| 3738 | I3 | | |
| 3739 | I3 | | |
| 3740 | I3 | | |
| 3741 | I3 | | |
| 3742 | I3 | | |
| 3743 | H10 | | |
| 3744 | I6 | | |
| 3745 | I5 | | |
| 3746 | I5 | | |
| 3747 | G3 | | |
| 3752 | H13 | | |
| 3753 | H13 | | |
| 3754 | H13 | | |
| 3755 | I13 | | |
| 3756 | I13 | | |
| 3757 | I13 | | |
| 3758 | I13 | | |
| 3759 | G12 | | |
| 3760 | G12 | | |
| 3761 | G12 | | |
| 3762 | H9 | | |
| 3763 | I9 | | |
| 3766 | C3 | | |
| 3767 | A4 | | |
| 3768 | B7 | | |
| 3769 | B5 | | |

12-8

# PB - Wessli - 08 - Circuit Diagram - SUPPLY part

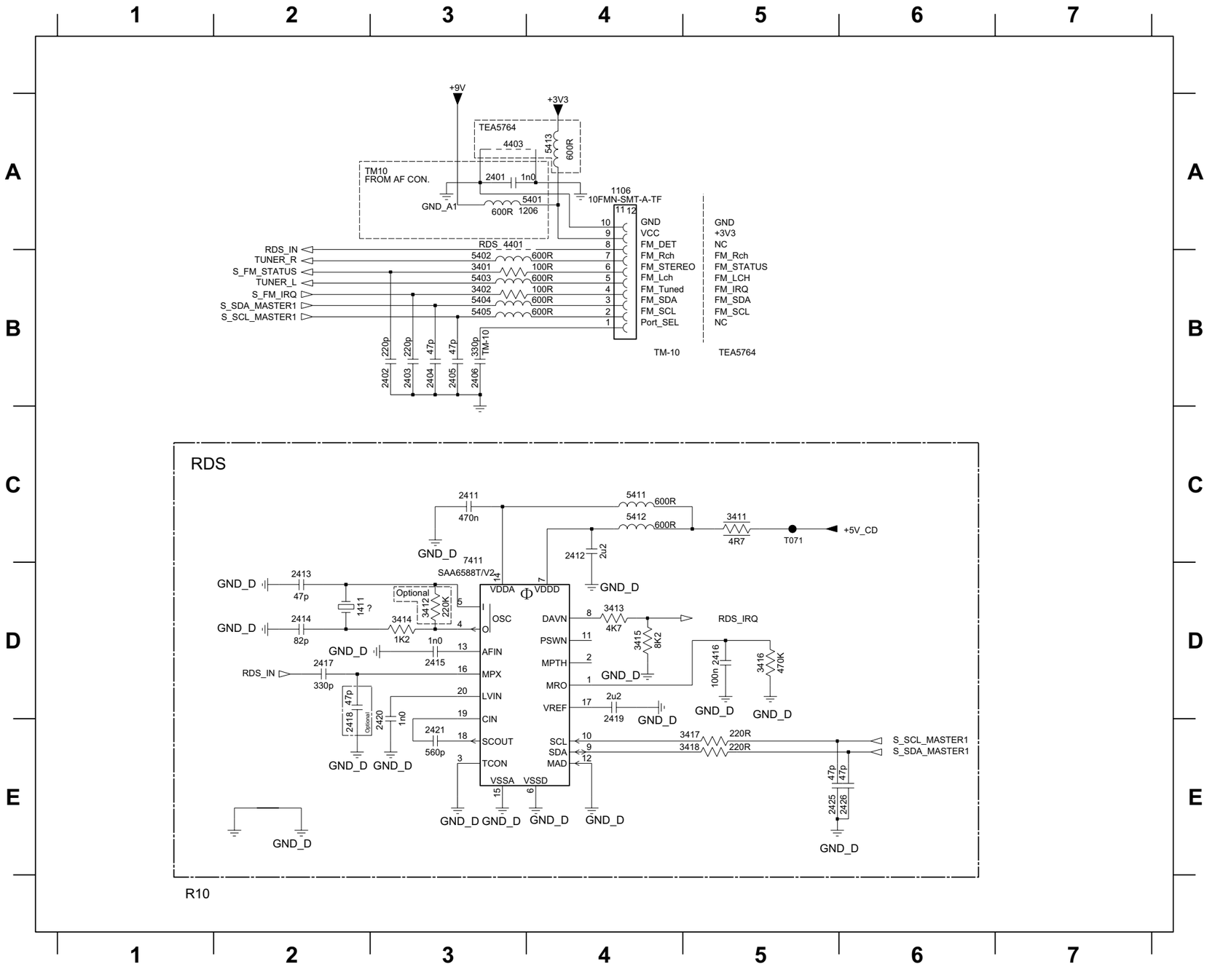




1901 A2
1902 B3
1903 A1
1904 B1
1905 E1
1906 E1
2900 A4
2901 A4
2902 A4
2903 A4
2904 B8
2905 B8
2906 B9
2907 B9
2908 B6
2909 B3
2910 C3
2911 C4
2912 C4
2913 E7
2914 D2
2915 D3
2916 D4
2917 E2
3900 A4
3901 A4
3902 A4
3903 A4
3904 A4
3905 B7
3906 B7
3908 D6
3909 E6
3910 E3
3911 B9
3912 B8
3913 B7
3914 B8
3915 C9
4902 D6
4903 A3
5900 A7
5901 A7
5902 A8
5903 B3
5904 B3
5905 C2
6900 B7
7900 A5
7901 B3
7902 D6
7903 D3
7904 E6
7905 E3
7906 C8
F901 B2
F902 B2
F903 B2
F904 B2
F905 A9
F908 E4
F909 D7
F910 B4
F911 D4

12-9

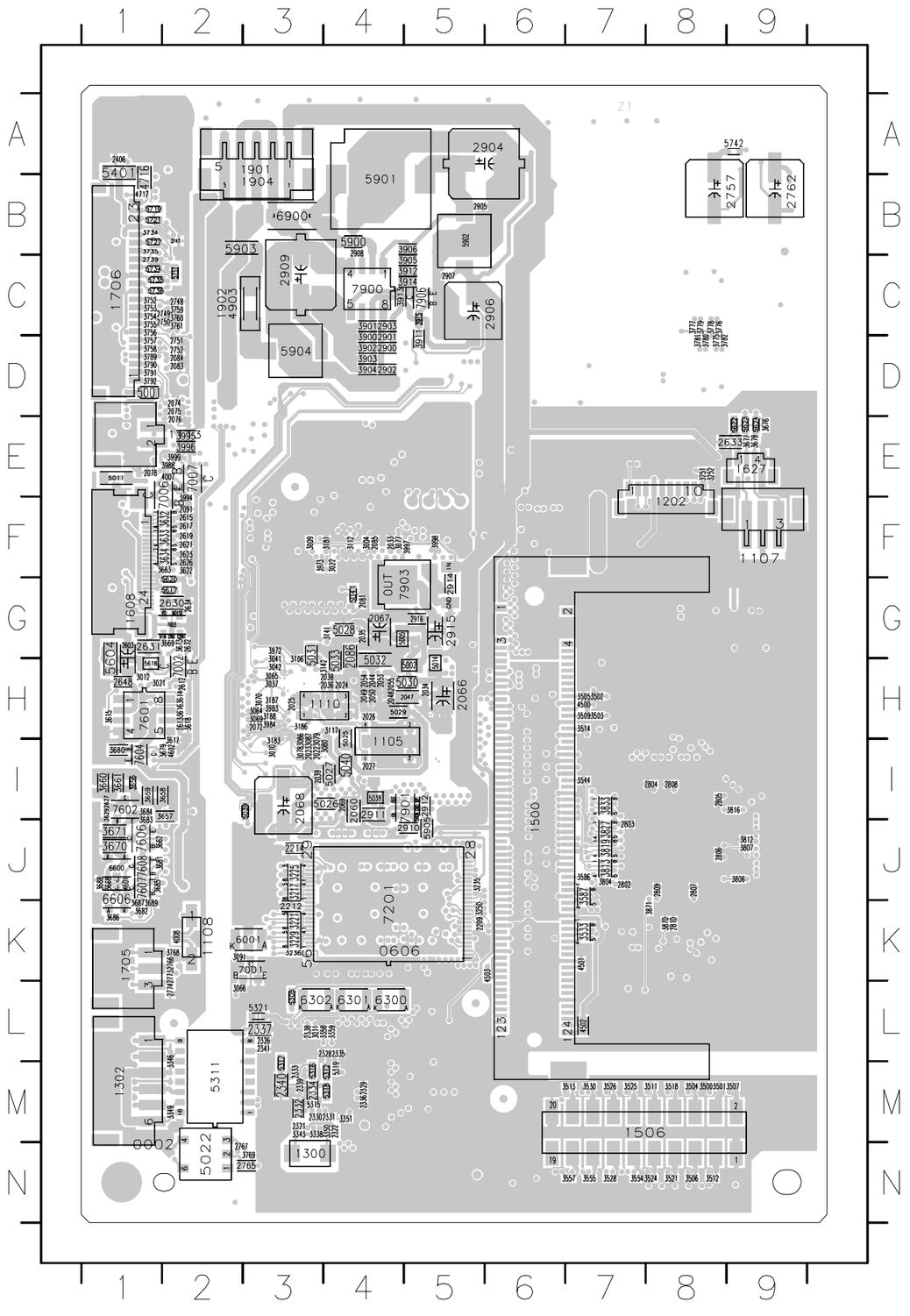
# PB - Wessli - 08 - Circuit Diagram - TUNER part




1106 A4
1411 D2
2401 A3
2402 B3
2403 B3
2404 B3
2405 B3
2406 B3
2411 C3
2412 C4
2413 D2
2414 D2
2415 D3
2416 D5
2417 D2
2418 E2
2419 D4
2420 E3
2421 E3
2425 E5
2426 E6
3401 B3
3402 B3
3411 C5
3412 D3
3413 D4
3414 D3
3415 D4
3416 D5
3417 E5
3418 E5
4401 A3
4403 A3
5401 A4
5402 B3
5403 B3
5404 B3
5405 B3
5411 C4
5412 C4
5413 A4
7411 D3
T071 C5

12-10

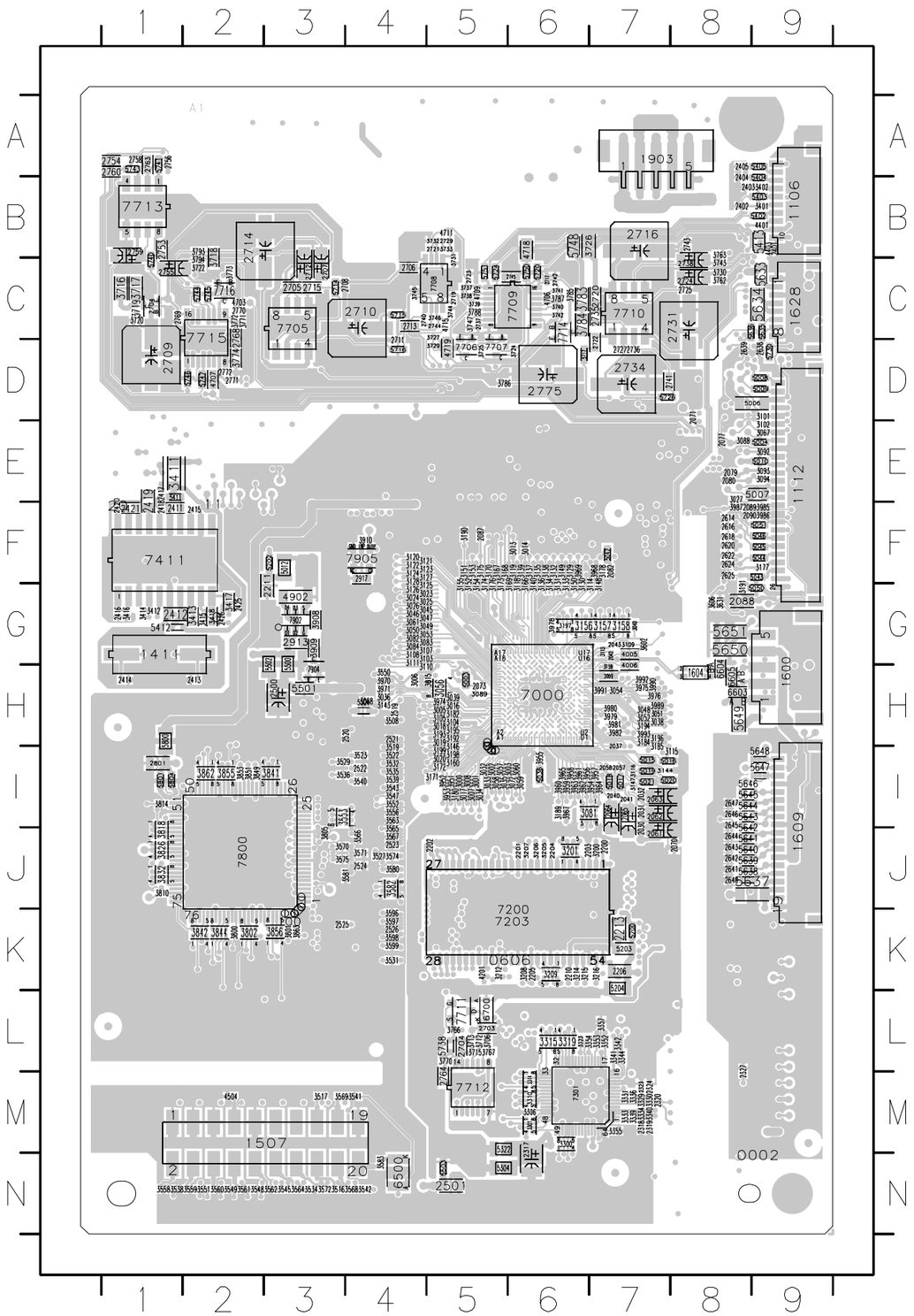
## PB - Wessli - 08 - Layout Diagram - Layer 1




| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0002 | N1 | 2629 | I1 | 3252 | E8 | 3775 | D8 | 5604 | G1 |
| 0606 | K4 | 2630 | G2 | 3338 | M3 | 3776 | C8 | 5617 | G2 |
| 1105 | I4 | 2631 | G1 | 3343 | M3 | 3777 | C8 | 5618 | H1 |
| 1107 | F9 | 2632 | G2 | 3346 | L2 | 3778 | C8 | 5620 | G2 |
| 1108 | K2 | 2633 | E9 | 3349 | M2 | 3779 | C8 | 5622 | E9 |
| 1110 | H4 | 2634 | G2 | 3350 | M4 | 3780 | D8 | 5623 | E9 |
| 1113 | E2 | 2648 | H1 | 3351 | M4 | 3781 | D8 | 5624 | E9 |
| 1202 | F8 | 2739 | C1 | 3358 | L4 | 3782 | D8 | 5719 | B1 |
| 1300 | N3 | 2747 | B2 | 3359 | L4 | 3789 | D1 | 5721 | B1 |
| 1302 | M1 | 2748 | C2 | 3500 | M8 | 3790 | D1 | 5727 | B1 |
| 1500 | I6 | 2749 | C2 | 3501 | M8 | 3791 | D1 | 5731 | C2 |
| 1506 | M7 | 2750 | C2 | 3502 | H7 | 3792 | D1 | 5734 | C1 |
| 1608 | G1 | 2751 | D2 | 3503 | H7 | 3804 | J7 | 5735 | C1 |
| 1627 | E9 | 2752 | D2 | 3504 | M8 | 3806 | J9 | 5736 | C1 |
| 1705 | K1 | 2757 | B9 | 3505 | H7 | 3807 | J9 | 5742 | A9 |
| 1706 | C1 | 2762 | B9 | 3506 | N8 | 3812 | J9 | 5900 | B4 |
| 1901 | A3 | 2765 | N3 | 3507 | M9 | 3813 | J7 | 5901 | B4 |
| 1902 | C2 | 2766 | K2 | 3509 | H7 | 3816 | I9 | 5902 | B5 |
| 1904 | B3 | 2767 | N2 | 3511 | M8 | 3819 | J7 | 5903 | B2 |
| 2022 | I3 | 2773 | K2 | 3512 | N8 | 3827 | J7 | 5904 | D3 |
| 2023 | I3 | 2774 | L2 | 3513 | M7 | 3833 | I7 | 5905 | J5 |
| 2024 | H4 | 2802 | J7 | 3514 | H7 | 3870 | K8 | 6001 | K3 |
| 2025 | H3 | 2803 | J7 | 3518 | M8 | 3871 | K8 | 6300 | L4 |
| 2026 | H4 | 2804 | I8 | 3521 | N8 | 3900 | D4 | 6301 | L4 |
| 2027 | I4 | 2805 | I8 | 3524 | N8 | 3901 | C4 | 6302 | L3 |
| 2033 | F4 | 2806 | J8 | 3525 | M7 | 3902 | D4 | 6600 | J1 |
| 2034 | H5 | 2807 | J8 | 3526 | M7 | 3903 | D4 | 6606 | J1 |
| 2035 | G4 | 2808 | I8 | 3528 | N7 | 3904 | D4 | 6900 | B3 |
| 2036 | H4 | 2809 | J8 | 3530 | M7 | 3905 | C5 | 7001 | K3 |
| 2038 | H4 | 2810 | K8 | 3533 | K7 | 3906 | B5 | 7002 | H2 |
| 2039 | I3 | 2900 | D4 | 3544 | I7 | 3911 | D5 | 7006 | E2 |
| 2044 | H4 | 2901 | D4 | 3554 | N7 | 3912 | C5 | 7007 | E2 |
| 2047 | H5 | 2902 | D4 | 3555 | N7 | 3913 | C4 | 7201 | K4 |
| 2048 | H4 | 2903 | C4 | 3557 | N7 | 3914 | C5 | 7601 | H1 |
| 2049 | H4 | 2904 | A6 | 3586 | J7 | 3915 | C5 | 7602 | I1 |
| 2050 | H4 | 2905 | B5 | 3587 | J7 | 3972 | C5 | 7603 | G2 |
| 2053 | H4 | 2906 | C6 | 3614 | H2 | 3973 | F3 | 7604 | I1 |
| 2054 | H4 | 2907 | C5 | 3615 | H1 | 3983 | H3 | 7606 | J1 |
| 2055 | H4 | 2908 | B4 | 3616 | H2 | 3984 | H3 | 7607 | J1 |
| 2060 | I4 | 2909 | C3 | 3617 | I2 | 3988 | F2 | 7608 | J1 |
| 2066 | H5 | 2910 | J5 | 3618 | H2 | 3994 | F2 | 7900 | C4 |
| 2067 | G4 | 2911 | I4 | 3622 | F2 | 3995 | F2 | 7901 | I5 |
| 2068 | I3 | 2912 | I5 | 3632 | F2 | 3996 | F2 | 7903 | G5 |
| 2069 | I4 | 2914 | G5 | 3633 | F2 | 3997 | F5 | 7906 | C5 |
| 2072 | H3 | 2915 | G5 | 3634 | F2 | 3998 | F5 | | |
| 2074 | D2 | 2916 | G5 | 3656 | I1 | 3999 | F2 | | |
| 2075 | D2 | 3004 | F4 | 3657 | I2 | 4007 | F2 | | |
| 2076 | E2 | 3009 | F3 | 3658 | I2 | 4008 | K2 | | |
| 2078 | E1 | 3010 | I3 | 3659 | I1 | 4500 | H7 | | |
| 2081 | G4 | 3011 | L3 | 3660 | I1 | 4501 | K7 | | |
| 2083 | D2 | 3012 | H1 | 3661 | I1 | 4502 | L7 | | |
| 2084 | D2 | 3021 | H1 | 3662 | J1 | 4503 | K6 | | |
| 2085 | F4 | 3022 | F4 | 3663 | F2 | 4601 | J1 | | |
| 2086 | G4 | 3037 | H3 | 3668 | J1 | 4602 | I2 | | |
| 2091 | F2 | 3041 | H3 | 3669 | G2 | 4716 | B1 | | |
| 2209 | K5 | 3042 | H3 | 3670 | J1 | 4717 | B1 | | |
| 2212 | K3 | 3064 | H3 | 3671 | J1 | 4903 | C2 | | |
| 2214 | J3 | 3065 | H3 | 3673 | G2 | 5001 | D1 | | |
| 2321 | M3 | 3066 | L2 | 3676 | E9 | 5002 | H5 | | |
| 2322 | M4 | 3069 | H3 | 3677 | E9 | 5005 | G4 | | |
| 2326 | L3 | 3070 | H3 | 3678 | E9 | 5011 | E1 | | |
| 2328 | L4 | 3077 | F4 | 3679 | I2 | 5014 | H5 | | |
| 2329 | M4 | 3078 | I3 | 3680 | I1 | 5022 | N2 | | |
| 2330 | M3 | 3079 | I3 | 3681 | J1 | 5025 | H4 | | |
| 2331 | M4 | 3080 | I4 | 3682 | K1 | 5026 | I4 | | |
| 2332 | M3 | 3086 | I3 | 3683 | J1 | 5027 | I4 | | |
| 2333 | M3 | 3087 | I3 | 3684 | I1 | 5028 | G4 | | |
| 2334 | M3 | 3091 | K2 | 3685 | J1 | 5029 | H4 | | |
| 2335 | L4 | 3106 | H3 | 3686 | K1 | 5030 | H5 | | |
| 2336 | M4 | 3112 | F4 | 3687 | K1 | 5031 | G3 | | |
| 2337 | L3 | 3117 | H4 | 3688 | J1 | 5032 | H4 | | |
| 2338 | L3 | 3141 | G4 | 3689 | K1 | 5033 | H4 | | |
| 2339 | M3 | 3142 | H4 | 3734 | B1 | 5038 | I4 | | |
| 2340 | M3 | 3181 | F4 | 3735 | B1 | 5039 | I3 | | |
| 2341 | L3 | 3183 | I3 | 3752 | C1 | 5040 | I4 | | |
| 2406 | A1 | 3186 | H3 | 3753 | C1 | 5041 | G4 | | |
| 2603 | G1 | 3187 | H3 | 3754 | C1 | 5305 | L3 | | |
| 2612 | H2 | 3188 | H3 | 3755 | C1 | 5311 | M2 | | |
| 2613 | H2 | 3217 | J3 | 3756 | C1 | 5312 | M4 | | |
| 2615 | F2 | 3221 | K3 | 3757 | D1 | 5315 | M3 | | |
| 2617 | F2 | 3225 | J3 | 3758 | D1 | 5316 | M3 | | |
| 2619 | F2 | 3229 | K3 | 3759 | C2 | 5317 | M3 | | |
| 2621 | F2 | 3235 | J5 | 3760 | C2 | 5318 | M4 | | |
| 2623 | F2 | 3236 | K3 | 3761 | C2 | 5319 | M4 | | |
| 2626 | F2 | 3250 | K5 | 3768 | K2 | 5321 | L3 | | |
| 2627 | I1 | 3251 | E8 | 3769 | N3 | 5401 | A1 | | |

12-11

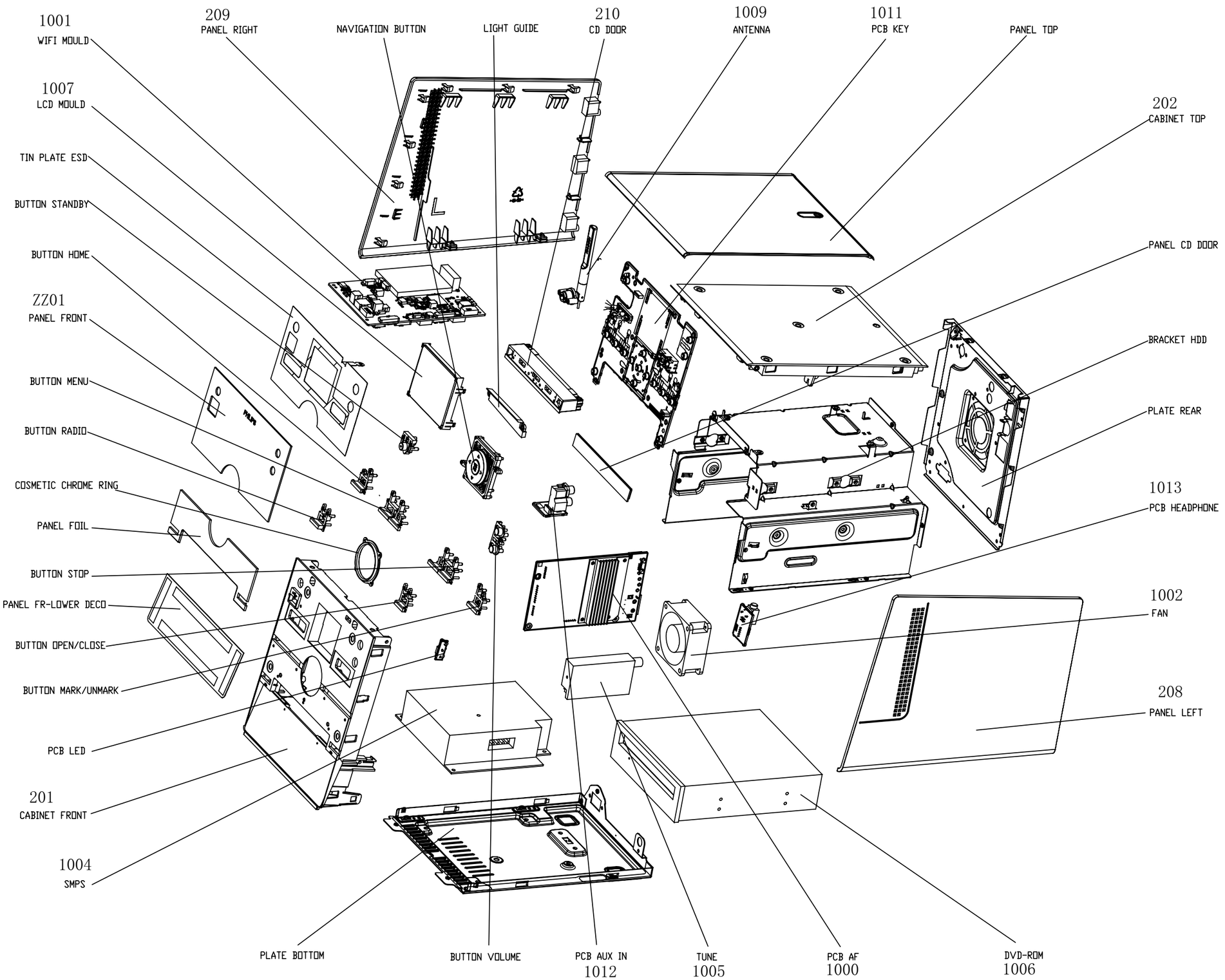
# PB - Wessli - 08 - Layout Diagram - Layer 2




| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1106 | B9 | 2624 | F8 | 3027 | E8 | 3156 | G6 | 3531 | K4 | 3774 | D2 | 5008 | D9 | 7301 | M6 |
| 1112 | E9 | 2625 | F8 | 3032 | I5 | 3157 | G7 | 3532 | I4 | 3783 | C6 | 5009 | D9 | 7411 | F1 |
| 1411 | G1 | 2638 | D9 | 3033 | I5 | 3158 | G7 | 3534 | N3 | 3784 | C6 | 5010 | E9 | 7704 | C1 |
| 1507 | M3 | 2639 | D8 | 3034 | I5 | 3159 | H7 | 3535 | I4 | 3785 | C6 | 5012 | F3 | 7705 | C3 |
| 1600 | H9 | 2640 | J8 | 3035 | I5 | 3160 | I5 | 3536 | I3 | 3786 | D5 | 5015 | I7 | 7706 | D5 |
| 1604 | H8 | 2641 | J8 | 3036 | H4 | 3166 | G6 | 3538 | N1 | 3787 | C6 | 5016 | I7 | 7707 | D5 |
| 1609 | J9 | 2642 | J8 | 3038 | H7 | 3167 | F5 | 3539 | I4 | 3788 | C5 | 5017 | I7 | 7708 | C5 |
| 1628 | C9 | 2643 | J8 | 3039 | H5 | 3168 | F5 | 3540 | I4 | 3793 | B2 | 5018 | I7 | 7709 | C6 |
| 1903 | A7 | 2644 | J8 | 3040 | G7 | 3169 | G6 | 3541 | M4 | 3794 | C2 | 5019 | I7 | 7710 | C7 |
| 2030 | J7 | 2645 | I8 | 3045 | G4 | 3170 | F5 | 3542 | N4 | 3800 | K2 | 5020 | I7 | 7711 | L5 |
| 2031 | I7 | 2646 | I8 | 3046 | G4 | 3171 | I5 | 3543 | I4 | 3801 | K3 | 5021 | I7 | 7712 | M5 |
| 2032 | I7 | 2647 | I8 | 3047 | G4 | 3172 | I5 | 3545 | N3 | 3802 | K2 | 5036 | I6 | 7713 | B1 |
| 2037 | I7 | 2703 | F5 | 3048 | H7 | 3173 | G5 | 3547 | I4 | 3805 | J3 | 5042 | F7 | 7714 | C6 |
| 2040 | I7 | 2704 | F5 | 3049 | G4 | 3174 | G5 | 3548 | N2 | 3810 | J1 | 5043 | F9 | 7715 | C2 |
| 2041 | I7 | 2705 | C3 | 3050 | G4 | 3175 | F5 | 3549 | N2 | 3814 | I1 | 5044 | F9 | 7716 | C2 |
| 2042 | G7 | 2706 | C4 | 3051 | H7 | 3176 | G5 | 3550 | H4 | 3818 | J1 | 5045 | F9 | 7800 | J2 |
| 2043 | G7 | 2707 | C3 | 3052 | H7 | 3177 | F9 | 3551 | N2 | 3826 | J1 | 5046 | F9 | 7902 | G3 |
| 2057 | I7 | 2708 | C3 | 3053 | G4 | 3178 | F7 | 3552 | I4 | 3832 | J1 | 5050 | G9 | 7904 | H3 |
| 2058 | I7 | 2709 | D1 | 3054 | H7 | 3180 | I5 | 3553 | I3 | 3841 | I3 | 5051 | F9 | 7905 | F4 |
| 2059 | H7 | 2710 | C4 | 3056 | H5 | 3182 | H5 | 3556 | I4 | 3842 | K2 | 5200 | K7 | | |
| 2061 | J7 | 2711 | D4 | 3057 | I5 | 3184 | H7 | 3558 | N1 | 3844 | K2 | 5202 | F3 | | |
| 2062 | I7 | 2712 | C3 | 3058 | I5 | 3185 | I7 | 3559 | N2 | 3849 | I2 | 5203 | K7 | | |
| 2063 | I7 | 2713 | C4 | 3059 | I6 | 3189 | I6 | 3560 | N2 | 3851 | I2 | 5204 | K7 | | |
| 2064 | I7 | 2714 | B2 | 3060 | I6 | 3190 | F5 | 3561 | N2 | 3853 | I2 | 5304 | N5 | | |
| 2065 | I7 | 2715 | C3 | 3061 | G4 | 3191 | G8 | 3562 | N3 | 3855 | I2 | 5322 | M5 | | |
| 2070 | J8 | 2716 | B7 | 3067 | E9 | 3192 | H5 | 3563 | I4 | 3856 | K3 | 5402 | B9 | | |
| 2071 | D8 | 2717 | C6 | 3068 | H4 | 3193 | H5 | 3564 | N3 | 3862 | I2 | 5403 | B9 | | |
| 2073 | H5 | 2719 | C5 | 3072 | I6 | 3194 | H7 | 3565 | J4 | 3863 | K3 | 5404 | B9 | | |
| 2077 | E8 | 2720 | C7 | 3081 | I6 | 3195 | H5 | 3566 | J4 | 3908 | G3 | 5405 | A9 | | |
| 2079 | F8 | 2721 | B5 | 3082 | G4 | 3196 | H7 | 3567 | J4 | 3909 | G3 | 5411 | E1 | | |
| 2080 | E8 | 2722 | D7 | 3083 | G4 | 3197 | G6 | 3568 | N4 | 3910 | F4 | 5412 | G1 | | |
| 2082 | F7 | 2723 | C5 | 3084 | G4 | 3198 | I5 | 3569 | M3 | 3951 | I5 | 5413 | B9 | | |
| 2087 | F5 | 2724 | C8 | 3088 | E8 | 3199 | I5 | 3570 | J3 | 3952 | I5 | 5500 | G3 | | |
| 2088 | G8 | 2725 | C8 | 3089 | H5 | 3200 | J7 | 3571 | J4 | 3953 | I5 | 5501 | H3 | | |
| 2089 | F8 | 2727 | D7 | 3092 | E9 | 3201 | J6 | 3572 | N3 | 3954 | I7 | 5502 | G3 | | |
| 2090 | F8 | 2729 | B5 | 3093 | E9 | 3205 | J6 | 3574 | J4 | 3955 | I6 | 5503 | N5 | | |
| 2200 | J7 | 2731 | C8 | 3094 | E9 | 3206 | J6 | 3575 | J3 | 3956 | I6 | 5504 | H4 | | |
| 2201 | J6 | 2734 | D7 | 3101 | D9 | 3207 | J6 | 3580 | J4 | 3957 | I7 | 5633 | C9 | | |
| 2202 | J5 | 2735 | C7 | 3102 | E9 | 3208 | K6 | 3581 | J4 | 3958 | I6 | 5634 | C9 | | |
| 2203 | J6 | 2736 | D7 | 3103 | G4 | 3209 | K6 | 3582 | J4 | 3959 | I6 | 5635 | C9 | | |
| 2204 | J6 | 2737 | C5 | 3104 | H5 | 3212 | K5 | 3583 | N4 | 3960 | I6 | 5636 | C8 | | |
| 2205 | K6 | 2738 | C8 | 3105 | H5 | 3214 | K6 | 3596 | K4 | 3961 | I6 | 5637 | J9 | | |
| 2206 | K7 | 2740 | C4 | 3107 | G4 | 3215 | K6 | 3597 | K4 | 3962 | I6 | 5638 | J8 | | |
| 2210 | K6 | 2741 | D7 | 3108 | G4 | 3216 | K7 | 3598 | K4 | 3963 | I6 | 5639 | J8 | | |
| 2211 | G3 | 2742 | C6 | 3109 | G7 | 3300 | M6 | 3599 | K4 | 3964 | I7 | 5640 | J8 | | |
| 2213 | K7 | 2743 | B8 | 3110 | H4 | 3301 | M6 | 3602 | G7 | 3965 | I6 | 5641 | J8 | | |
| 2317 | M6 | 2744 | C5 | 3111 | G4 | 3306 | M6 | 3606 | G8 | 3967 | I6 | 5642 | J8 | | |
| 2318 | M7 | 2745 | C6 | 3113 | G7 | 3310 | M6 | 3631 | G8 | 3968 | F7 | 5643 | I8 | | |
| 2319 | M7 | 2753 | B1 | 3114 | G7 | 3314 | M6 | 3706 | L5 | 3969 | F6 | 5644 | I8 | | |
| 2320 | M7 | 2754 | A1 | 3115 | I8 | 3315 | L6 | 3712 | L5 | 3970 | H4 | 5645 | I8 | | |
| 2323 | M7 | 2755 | C1 | 3116 | I7 | 3319 | L6 | 3713 | L5 | 3971 | H4 | 5646 | I8 | | |
| 2324 | M7 | 2756 | A1 | 3118 | G6 | 3323 | L6 | 3715 | L5 | 3974 | H5 | 5647 | I9 | | |
| 2327 | L8 | 2758 | A1 | 3119 | F6 | 3329 | M7 | 3716 | C1 | 3975 | H7 | 5648 | I9 | | |
| 2401 | B9 | 2759 | B1 | 3120 | F4 | 3330 | M7 | 3717 | C1 | 3976 | H7 | 5649 | H8 | | |
| 2402 | B8 | 2760 | A1 | 3121 | F4 | 3331 | M7 | 3718 | B2 | 3978 | G6 | 5650 | G8 | | |
| 2403 | B8 | 2763 | A1 | 3122 | F4 | 3333 | M7 | 3719 | C1 | 3979 | H7 | 5651 | G8 | | |
| 2404 | B8 | 2764 | M5 | 3123 | F4 | 3334 | M7 | 3720 | C1 | 3980 | H7 | 5714 | C3 | | |
| 2405 | A8 | 2768 | C2 | 3124 | F4 | 3336 | M7 | 3722 | C2 | 3981 | H7 | 5715 | C4 | | |
| 2411 | F1 | 2769 | C1 | 3125 | G4 | 3339 | M7 | 3724 | D6 | 3982 | H7 | 5716 | D4 | | |
| 2412 | G1 | 2770 | C2 | 3126 | G4 | 3340 | M7 | 3725 | D5 | 3985 | F9 | 5717 | D6 | | |
| 2413 | H2 | 2771 | D2 | 3127 | F4 | 3341 | L7 | 3726 | B6 | 3986 | F9 | 5720 | C6 | | |
| 2414 | H1 | 2772 | D2 | 3128 | F4 | 3342 | L7 | 3727 | C5 | 3987 | F8 | 5724 | C5 | | |
| 2415 | F2 | 2775 | D6 | 3129 | F6 | 3344 | L7 | 3729 | D5 | 3989 | H7 | 5726 | D7 | | |
| 2416 | G1 | 2801 | I1 | 3130 | G6 | 3352 | L7 | 3730 | C8 | 3990 | H7 | 5730 | D9 | | |
| 2417 | E1 | 2913 | G3 | 3131 | G6 | 3353 | L7 | 3731 | C5 | 3991 | H7 | 5738 | L5 | | |
| 2418 | F1 | 2917 | F4 | 3132 | F6 | 3354 | L6 | 3732 | B5 | 3992 | H7 | 5740 | C1 | | |
| 2419 | F1 | 3000 | I5 | 3133 | G6 | 3355 | M7 | 3733 | B5 | 3993 | H7 | 5741 | A1 | | |
| 2420 | F1 | 3001 | I5 | 3134 | G6 | 3357 | L7 | 3737 | C5 | 4005 | G7 | 5743 | A1 | | |
| 2421 | F1 | 3002 | I5 | 3135 | F6 | 3401 | B9 | 3738 | C5 | 4006 | H7 | 5744 | C2 | | |
| 2425 | G2 | 3003 | I6 | 3136 | G6 | 3402 | B9 | 3739 | C5 | 4201 | K5 | 5745 | C2 | | |
| 2426 | G2 | 3005 | H5 | 3137 | F6 | 3411 | E1 | 3740 | C6 | 4401 | B9 | 5746 | D2 | | |
| 2500 | H3 | 3006 | H4 | 3138 | F6 | 3412 | G1 | 3741 | C6 | 4403 | B9 | 5747 | D2 | | |
| 2501 | N5 | 3007 | I5 | 3139 | F6 | 3413 | G2 | 3742 | C6 | 4504 | M2 | 5748 | B6 | | |
| 2519 | H4 | 3008 | I5 | 3140 | G6 | 3414 | G1 | 3743 | C8 | 4703 | C2 | 5750 | C6 | | |
| 2520 | H4 | 3013 | F6 | 3143 | H4 | 3415 | G2 | 3744 | C5 | 4706 | C6 | 5751 | C5 | | |
| 2521 | H4 | 3014 | F6 | 3144 | I7 | 3416 | G1 | 3745 | C4 | 4707 | D2 | 5800 | H1 | | |
| 2522 | I4 | 3015 | H5 | 3146 | I5 | 3417 | G2 | 3746 | C5 | 4709 | C5 | 5801 | I1 | | |
| 2523 | J4 | 3016 | H5 | 3147 | I7 | 3418 | G2 | 3747 | C5 | 4711 | B5 | 5804 | I1 | | |
| 2524 | J4 | 3017 | I5 | 3148 | G7 | 5508 | H4 | 3762 | C8 | 4715 | C5 | 6500 | N4 | | |
| 2525 | K3 | 3018 | H5 | 3149 | F6 | 5516 | N3 | 3763 | B8 | 4718 | B6 | 6603 | H8 | | |
| 2526 | K4 | 3019 | H5 | 3150 | G6 | 3517 | M3 | 3766 | L5 | 4719 | D5 | 6604 | H8 | | |
| 2614 | F8 | 3020 | I5 | 3151 | F5 | 3519 | I4 | 3767 | L5 | 4902 | G3 | 6605 | H8 | | |
| 2616 | F8 | 3023 | G4 | 3152 | G5 | 3522 | I4 | 3770 | L5 | 5003 | H5 | 6700 | L5 | | |
| 2618 | F8 | 3024 | G4 | 3153 | F5 | 3523 | I4 | 3771 | C2 | 5004 | E9 | 7000 | H6 | | |
| 2620 | F8 | 3025 | G4 | 3154 | G5 | 3527 | J4 | 3772 | C2 | 5006 | D9 | 7200 | K6 | | |
| 2622 | F8 | 3026 | G4 | 3155 | G5 | 3529 | I3 | 3773 | C2 | 5007 | E9 | 7203 | K6 | | |

13-1

## Explode Diagram



## *ACCESSORIES PARTS LIST*

| | | |
|---|---|---|
| 456 | 242207600687 | ANT FM DIP SD-2380 B |
| 457 | 314107870351 | CD ROM INSTALL SW MCI300/12 |
| 460 | 313923817261 | RC2023629/01 |
| 469 | 242207098147 | MAINSCORD UK 2A5 1M5 DET 2P B(FOR /05) |
| 469 | 242207098151 | MAINSCORD EUR 2A5 1M5 DET 2P B(FOR /12) |
| 470 | 314107850183 | BOX SPK ASSY WAC3500D |

## *MISCELLANEOUS PARTS LIST*

| | | |
|---|---|---|
| 201 | 314107751541 | CAB F PRE-ASSY MCI300/12 |
| 202 | 314107751191 | CABINET TOP PRE-ASSY WAC3500D |
| 208 | 314107403761 | PANEL LEFT WAC3500D/12 |
| 209 | 314107403772 | PANEL RIGHT WAC3500D/12 |
| 210 | 314107751561 | CD DOOR PRE-ASSY MCI300/12 |
| 211 | 314107401841 | FOOT RUBBER WAC5 |
| 246 | 314107404331 | ISOLATOR PIN WAC3500D |
| 247 | 314107403851 | HOLDER ANTENNA WAC3500D |
| 8002 | 314107021691 | FFC 10P/430/10P BD 1.25mm FOLD |
| 8005 | 314107021941 | FFC 23P/200/23P 1MM BD FOLD |
| 8006 | 314107021951 | FFC 26P/280/26P 1MM BD FOLD |
| 8007 | 314107021621 | CBLE 5P PH/250 /USB-A (REC) |
| 8008 | 314107021721 | CBLE IDE 40P/165/20P |
| 1000 | 314107802971 | PBAS AF& MCI300_RDS |
| 1002 | 282203100065 | FAN 12VDC 0.8W 3100RPM B |
| 1000 | 314107802941 | PBAS WessLi-08 (BW) MCi300/12 |
| 1001 | 282206502109 | WMOD WIFIG MPCI PM101_US B |
| 1004 | 314107850311 | MODULE SMPS MCI300/05 |
| 1005 | 242254200049 | TUN FM ENG07826QF EUR B |
| 1006 | 314107050441 | DVDROM 16D2P+FW EPT4 WAC3500D |
| 1007 | 272217100524 | LCD MODULE PCE2035-02 (VARI) Y |
| 1008 | 242207600717 | ANT WIFI 2450MHZ 50R Y |
| 1009 | 242254900668 | ANT WIFI WAS5 B |
| 1011 | 314107802991 | PBAS 9 - Keys&RC MCI300 |
| 1012 | 314107802341 | PBAS - AUDIO in/out WAC3500D |
| 1013 | 314107802351 | PBAS 7 - Headphone WAC3500D |
| 1014 | 314107802361 | PBAS 6 - WiFi-light WAC3500D |

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