

Service
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Service Manual



TABLE OF CONTENTS

Location of PCBS	1-1	PB - Aux IN.....	8-1
Specifications	1-2	PB - Headphone	9-1
Measurement Setup	1-3	PB - KEYS.....	10
Service Aids, Safety Instruction, etc.	1-4	Circuit diagram	10-1
Instructions On CD Playability	1-5 to 1-6	Layout diagram.....	10-2
Software & Firmware Upgrade	2-1...2-2	PB - KEYS & RC.....	11
Malfunction Check Chart (TBC)	2-3	Circuit diagram	11-1
Service Test Program.....	3-1...3-2	Layout diagram.....	11-2
Disassembly Diagram	4-1	PB - LCD Interface.....	12-1
Block Diagram	5-1	PB - HasLi - 08	13
Wiring Diagram.....	6-1	Circuit diagram	13-1...13-9
PB - AF/AMP.....	7	Layout diagram.....	13-10...13-11
Circuit diagram	7-1...7-4	Explode View	14-1
Layout diagram.....	7-5...7-6	Service Partlist	14-2



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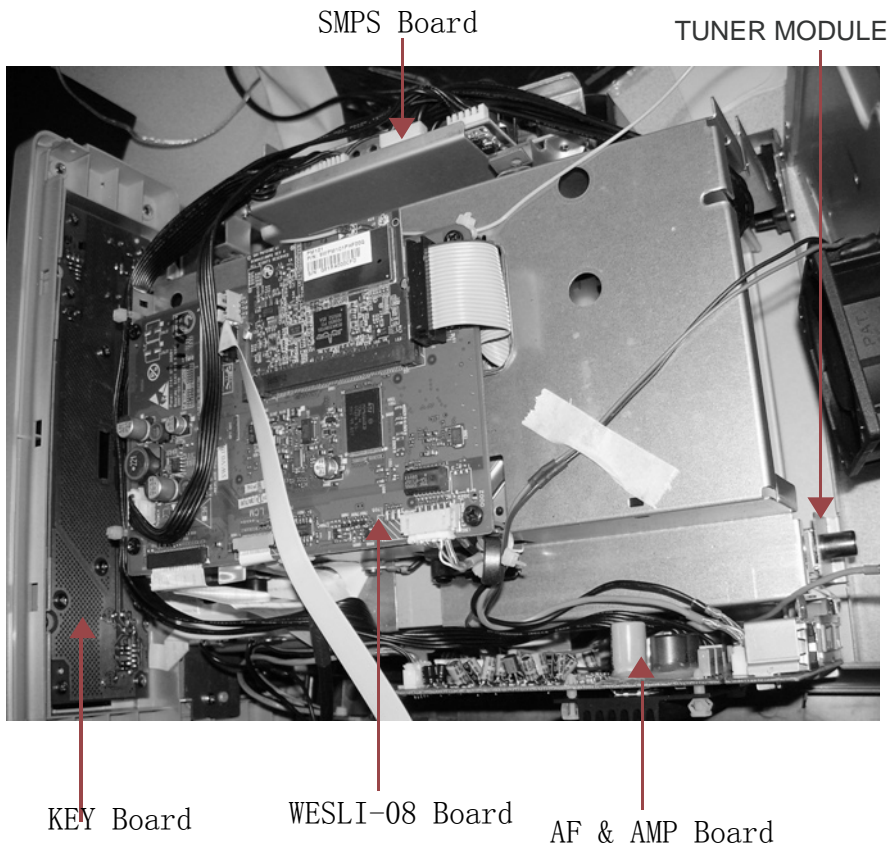
© 3141 785 32960

Version 1.0



PHILIPS

Location of PCBS



VERSION VARIATIONS :

Type /Versions:		MCI500H									
Board in used: Service policy		/05	/12	/37							
SMPS BOARD		M	M								
TUNER MODULE		M	M								
AF& BOARD		M	M								
AUX IN BOARD		M	M								
HEADPHONE BOARD		M	M								
KEYS&RC BOARD		M	M								
KEYS BOARD		M	M								
WESLI-08 BOARD		M	M								
LCD INTERFACE BOARD		M	M								
Type /Versions:		MCI500H									
Features Feature difference		/05	/12	/37							
RDS											
VOLTAGE SELECTOR											
ECO STANDBY - DARK											
* TIPS : C -- Component Lever Repair. M -- Module Lever Repair √ -- Used											

Specification

General

AC Power 230V ±10%, 50Hz (for /12, /05 /79)
 120V ±10%, 60Hz (for /37)
 .. 120V ±15%, 60Hz or 230V ±15%, 50Hz (for /55, /97)

Dimensions (w x h x d) Main unit: 260 x 180 x 275 mm

Weight (Net)..... Main unit: 4.58 kg; Main unit +
 Speakers: 8.40 kg

Power consumption

Active (ON) 45W
 (Active) Standby < 15W
 ECO (Passive) Standby < 0.9W

Amplifier

Output power 2 x 50W (RMS)
 Frequency response 30 - 22,000Hz (-3dB)
 Signal-to-noise ratio 75 dBA (IEC)

Speakers

Power 50W (RMS) / 75 W (MPO)
 Frequency response 60Hz -- 30kHz (-6dB)
 Sensitivity 84 dB / m / W
 Impedance 9Ω
 Speaker drivers 2 way bass reflex system
 5¼" Woofer, 25mm dome Tweeter
 Dimensions (w x h x d) 173 x 300 x 265 mm

Headphones

Impedance 16 - 150Ω (Ohms)

Input sensitivity

AUX IN 500mV / 1V (user selectable)

Wireless

Wireless standard 802.11g, backwards compatible to 802.11b
 Wireless security ...WEP(64or128 bit),WPA/WPA2(8-63characters)
 Frequency range 2412 - 2462MHz (CH1-CH11)

Wired (LAN / Ethernet)

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

HD player

Frequency range 30 -- 20,000Hz (-3dB)
 Signal-to-noise ratio 75dBA (IEC)
 M4A (AAC) bit rate 16 - 320kbps, CBR/VBR
 MP3 bit rate 32 - 320kbps, CBR/VBR
 WMA bit rate up to 192kbps, CBR/VBR
 Sampling frequencies 32, 44.1, 48kHz
 HD storage capacity 160GB*
 Recording quality 128, or 160, or 192, or 256, or 320kbps
 Recording speed 1x, 4x
 CDDB (CD recognition database)
 internal Gracenote® / online access enabled
 Album artwork Yes, supported

*Actual formatted capacity will be less

CD player

Frequency range 30 -- 20,000Hz (-3dB)
 Signal-to-noise ratio 75dBA (IEC)
 M4A (AAC) bit rate 16 - 320kbps, CBR/VBR
 MP3 bit rate 32 - 320kbps, CBR/VBR
 WMA bit rate up to 192kbps, CBR/VBR
 Sampling frequencies 32, 44.1, 48kHz

USB player

USB 12Mbps,V1.1(support MP3,WMA and M4A files)
 USB class MSC, MTP
 Number of tracks/titles maximum 9999
 File format FAT, FAT-32 only

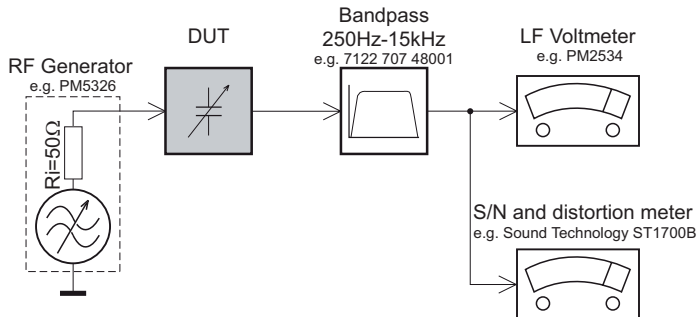
Tuner

FM wave range 87.5 -- 108.0 MHz
 Number of presets 60
 FM antenna/cable
 COAX / Dipole-antenna (75Ω IEC-connector)

Specifications and external appearance are subject to change without notice.

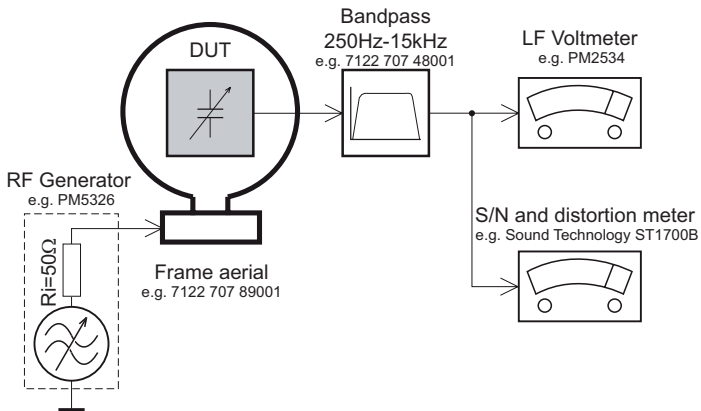
MEASUREMENT SETUP

Tuner FM



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

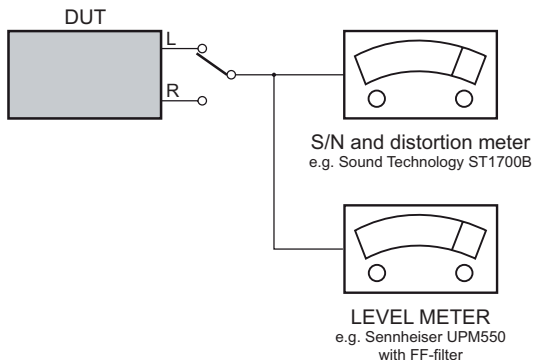
Tuner AM (MW,LW)



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

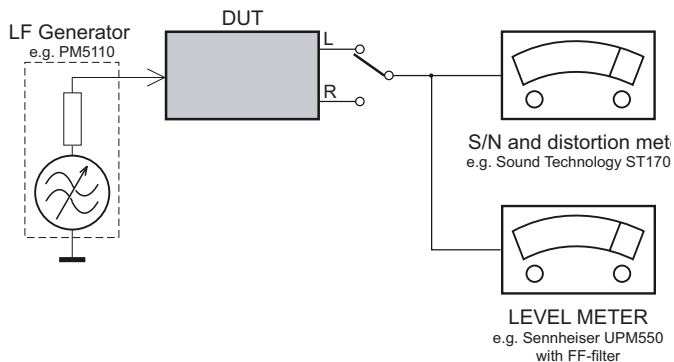
CD

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



Recorder

Use Universal Test Cassette **Cr02** SBC419 4822 397 30069
or Universal Test Cassette **Fe** SBC420 4822 397 30071



SERVICE AIDS

GB WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.

When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance.

Keep components and tools also at this potential.

ESD



GB

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

Safety components are marked by the symbol .

**CLASS 1
LASER PRODUCT**

INFORMATION ABOUT LEAD-FREE SOLDERING

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

IDENTIFICATION:

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



- On our website www.atyourservice.ce.Philips.com you find more information to:
 - * BGA-de-/soldering (+ baking instructions)
 - * Heating-profiles of BGAs and other ICs used in Philips-sets
 - * Lead free

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

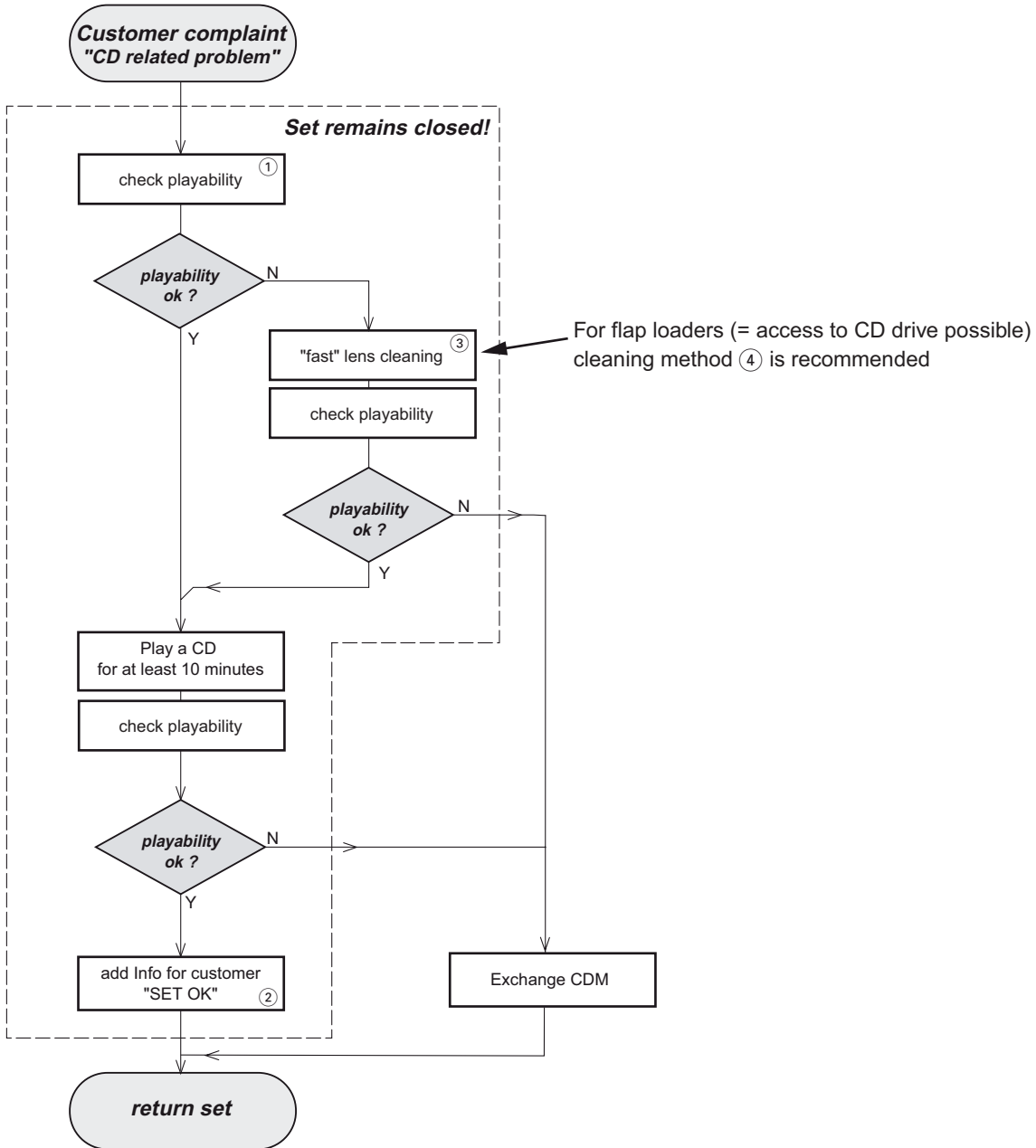
For additional questions please contact your local repair-helpdesk.

SERVICE INSTRUCTION

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

- Route the wire trees correctly and fix them with the mounted cable clamps.
- Check the insulation of the AC Power lead for external damage.
- Check the strain relief of the AC Power cord for proper function.
- Check the electrical DC resistance between the AC Power Plug and the secondary side (only for sets which have a AC Power isolated power supply):
 1. Unplug the AC Power cord and connect a wire between the two pins of the AC Power plug.
 2. Set the AC Power switch to the "on" position (keep the AC Power cord unplugged!).
 3. Measure the resistance value between the pins of the AC Power plug and the metal shielding of the tuner or the aerial connection on the set. The reading should be larger than 4.5 Mohm (For U.S. it should be between 4.2 Mohm and 12 Mohm).
 4. Switch "off" the set, and remove the wire between the two pins of the AC Power plug.
- Check the cabinet for defects, to avoid touching of any inner parts by the customer.

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 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.

④

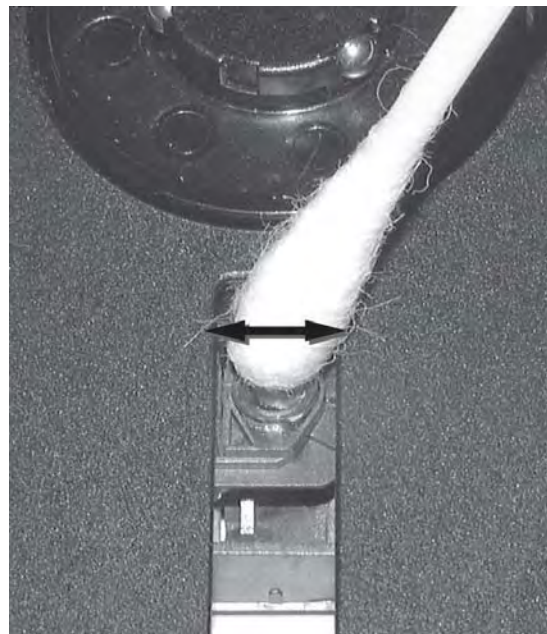
LIQUID LENS CLEANING

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 MCI500H.

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

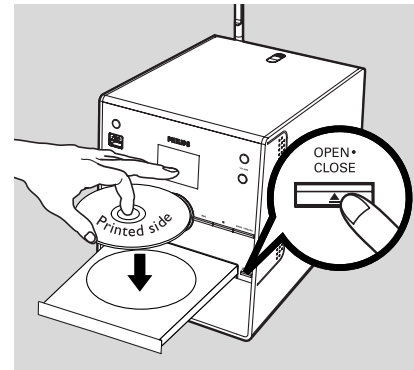
1. To download free firmware and software upgrades for your product, please login to www.club.philips.com
Download the firmware upgrade files and store them on your PC
2. Unzip the .zip file and extract files into your PC.

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 MCI500H

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.

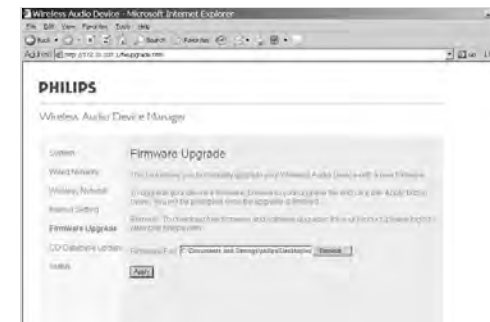
4. After the upgrade

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 MCI500H 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

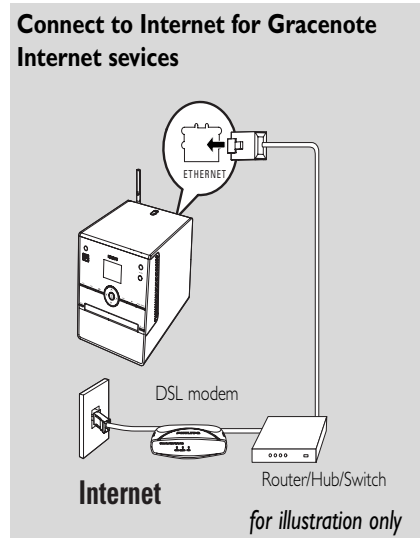
- 1 Use your PC to register your product on www.club.philips.com and go to "Show Upgrades & Support" page to download Gracenote Music recognition database update. Note that the updates are posted quarterly and each update is independent of each other; i.e. a later update could be installed without an 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



Helpful hint:

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

- 2 Set DNS and Gateway
 - a. **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.

 - i. Press **MENU**
 - ii. Press **▲** or **▼** and **▶** to select **Settings > Network > Wired**
 - iii. Press **▶** to continue
 - iv. Press **▲** or **▼** and **▶** to select **Automatic (DHCP)**.
 - b. **If there is no DHCP**, set the DNS and Gateway manually by following steps below:

On your PC, carry out the following steps:

 - i. Click **Start > Run**

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\Documents and Settings\philips>ipconfig/all
```

- ii. Type **cmd** and click **OK**
- iii. Type **ipconfig/all**

- iv. Write down the DNS and Gateway of the current connection

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\Documents and Settings\philips>ipconfig/all
Windows IP Configuration

Host Name . . . . . : Test42
Primary Dns Suffix . . . . . :
Node Type . . . . . : Hybrid
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No

Ethernet adapter Local Area Connection:

Connection-specific DNS Suffix . :
Description . . . . . : 3Com 3C920 Integrated Fast Ethernet Controller (3Com5C7K Compatible)
Physical Address. . . . . : 00-06-5B-53-50-A0
Dhcp Enabled. . . . . : No
IP Address. . . . . : 192.31.197.5
Subnet Mask . . . . . : 255.255.0.0
Default Gateway . . . . . :
```

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
 - i. Enter the Gateway you wrote down
 - ii. 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

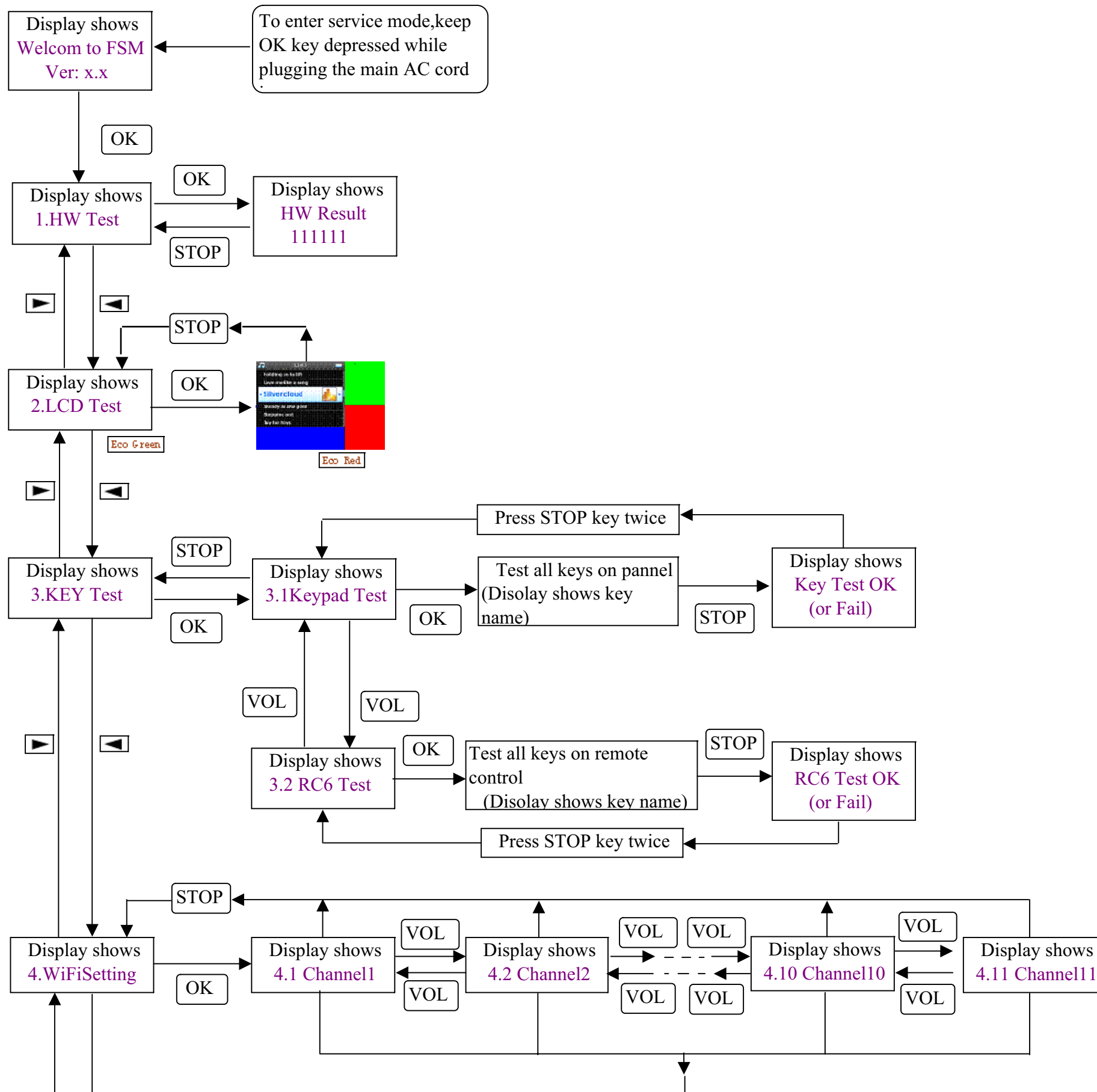
When the internet connection is made, insert the CD disc that you want to look for its information into the CD loader on the Center. Searching start immediately. It will search from local Gracenote CD database firstly. If can't find the CD track information, online searching will then start. The searching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

Helpful hint:

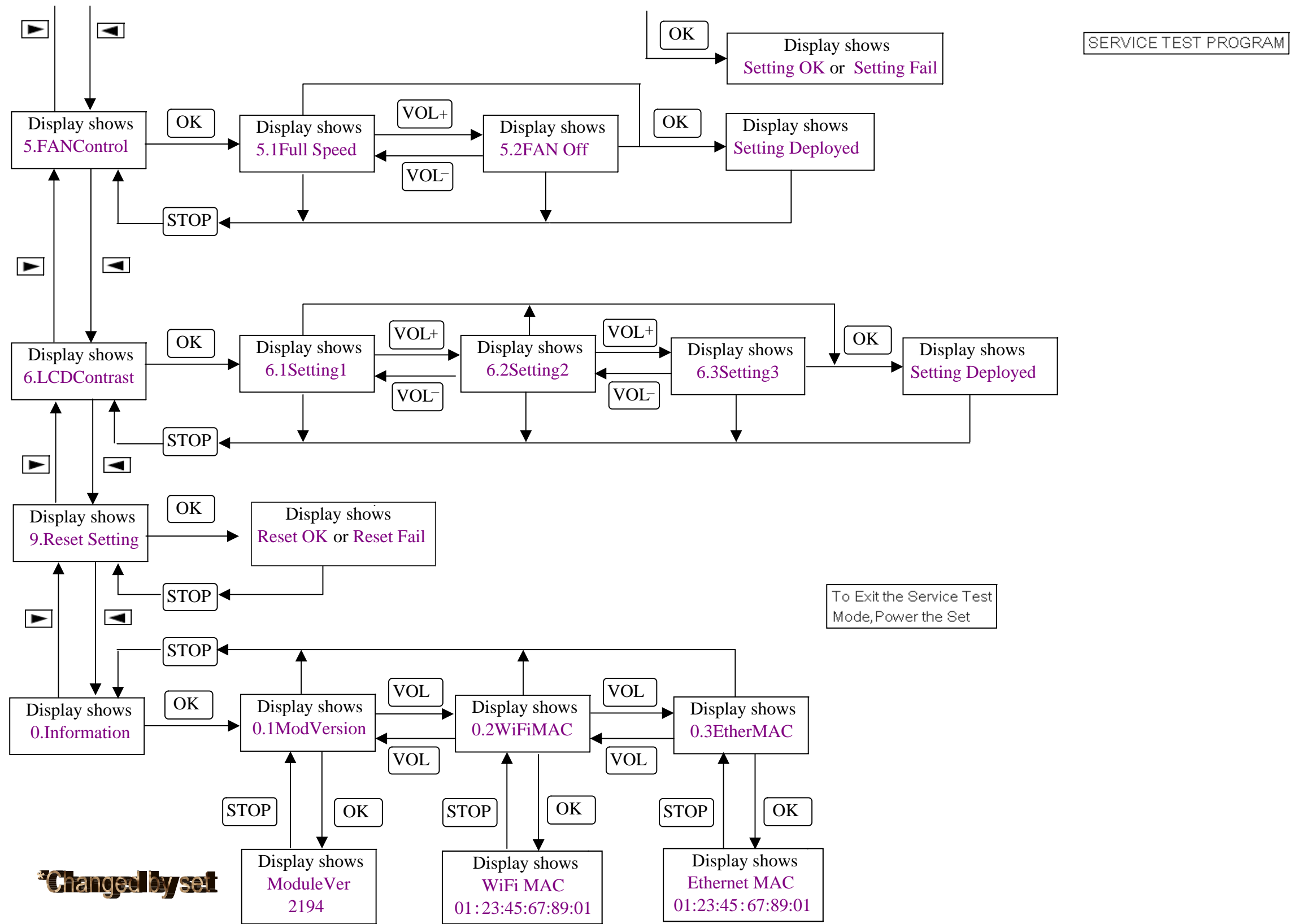
If the internet query failed due to failure in internet connection, the error message "Check the internet setup for Gracenote online" will appear. Check if your internet connection is correct (see **12.2.1** above)

SERVICE TEST PROGRAM

SERVICE TEST PROGRAM

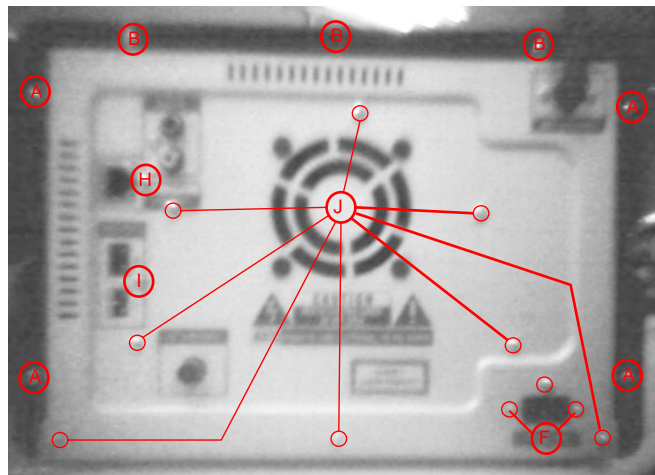


SERVICE TEST PROGRAM

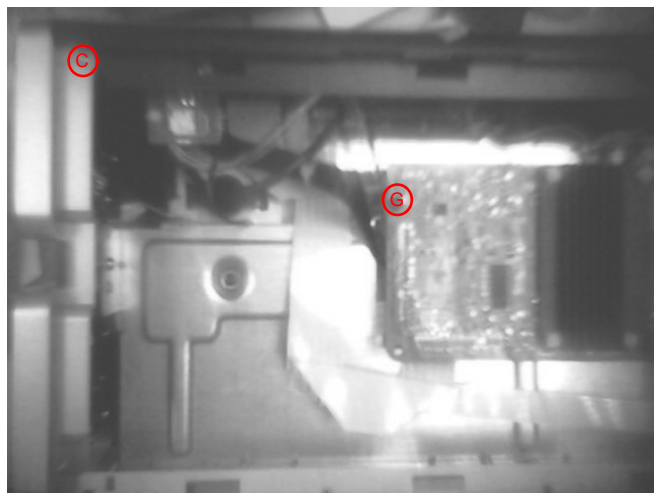


Disassembly Diagram

1. Remove Left & Right Cabinet
 - remove screws T3x6 - 4 pcs (A)
 - Pull the left or right cabinet and then lift it.



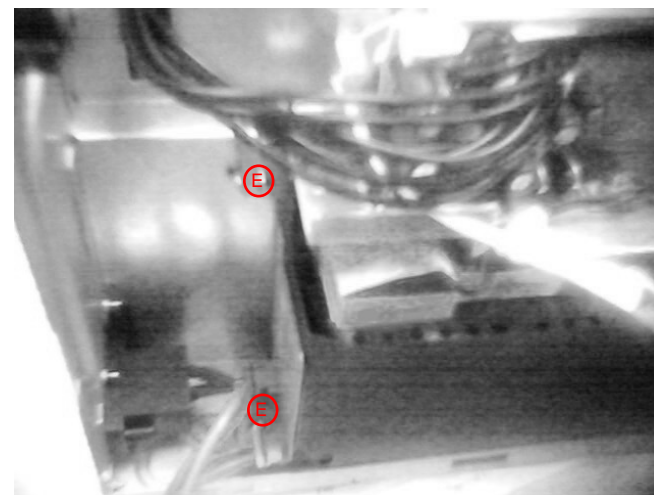
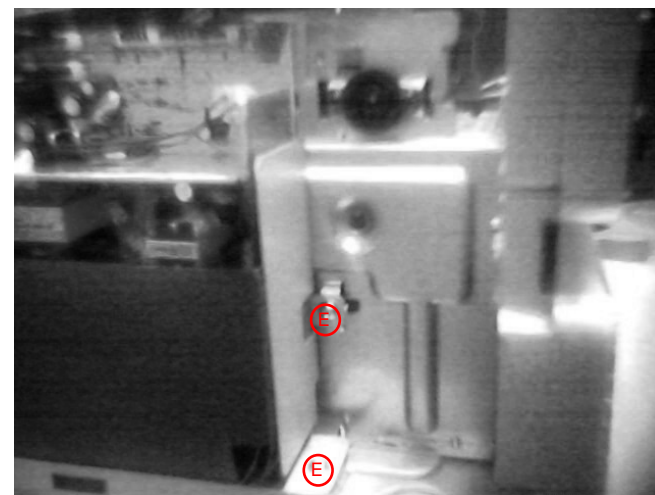
2. Remove Top Cabinet
 - Remove screws T3x6 - 3 pcs (B) (Please refer to first picture)
 - Remove screws M2.6x8 - 2 pcs (C)



3. Remove Wesli board
 - Remove screws T3x6 - 4 pcs (D)



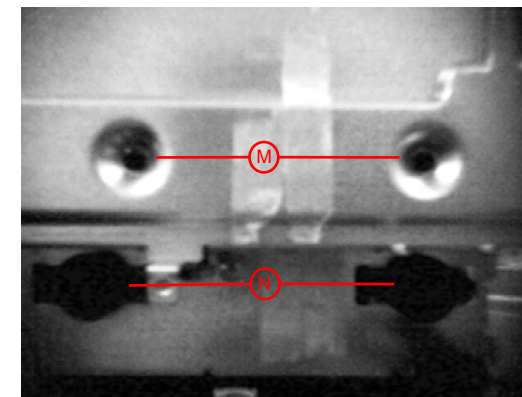
4. Remove SMPS board
 - Remove screws T2.6x4 - 4 pcs (E)
 - Remove screws M3x8 - 2 pcs (F) (Please refer to first picture)



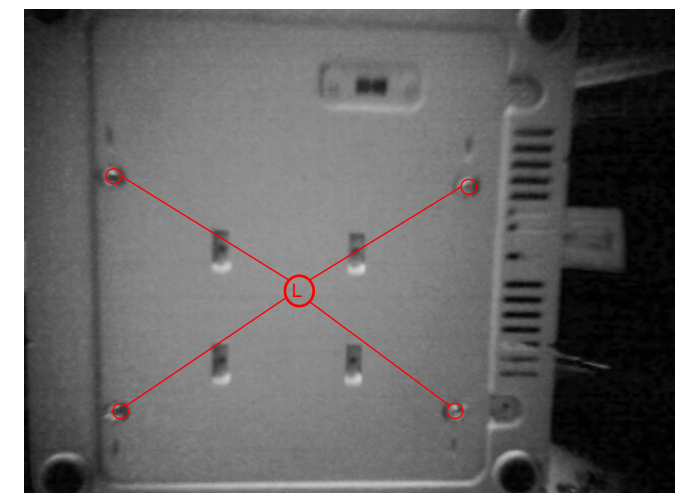
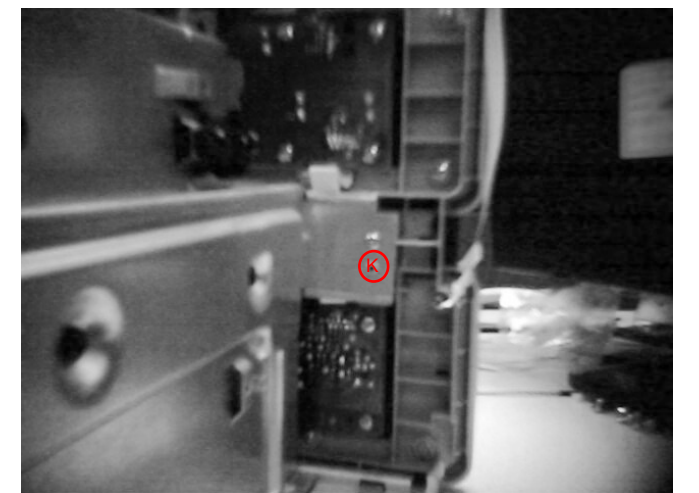
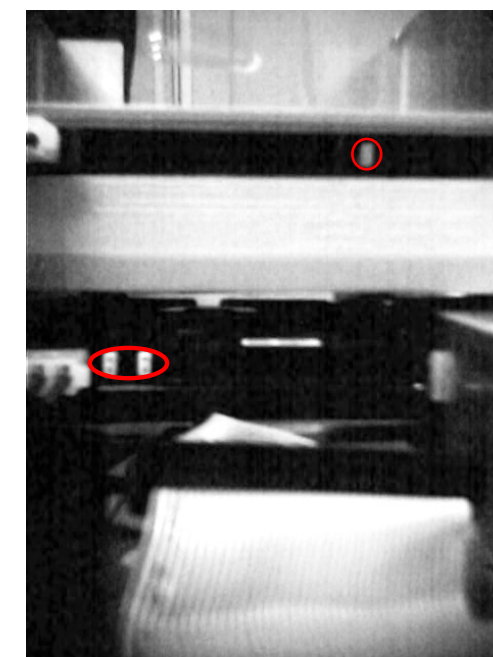
5. Remove Amp board
 - Remove screws T3x6 - 1 pcs (G) (Please refer to second picture)
 - Remove screws T3x6 - 1 pcs (H) (Please refer to first picture)
 - Remove screws M2.6x8 - 1 pcs (I) (Please refer to first picture)

6. Remove rear cabinet.
 - Remove screws T3x6 - 9 pcs (J) (Please refer to second picture)

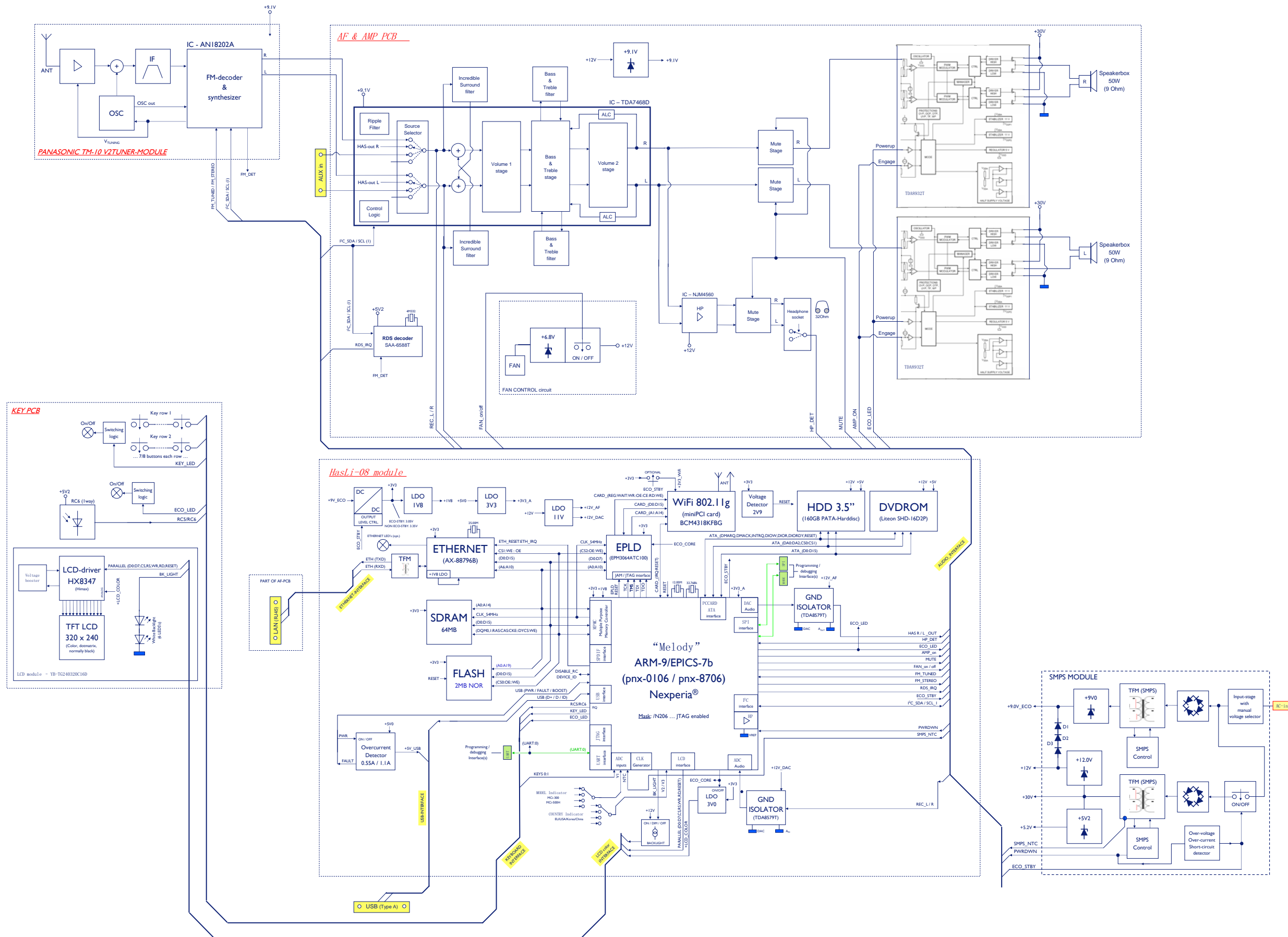
7. Remove HDD & CD loader cover.
 - Remove screws M2.6x8 - 2 pcs (K)
 - Remove screws T3x6 - 9 pcs (L)
 - Remove screws T3x6 - 2x2 pcs (M)
 - Remove screws T3x4 - 2x2 pcs (N)



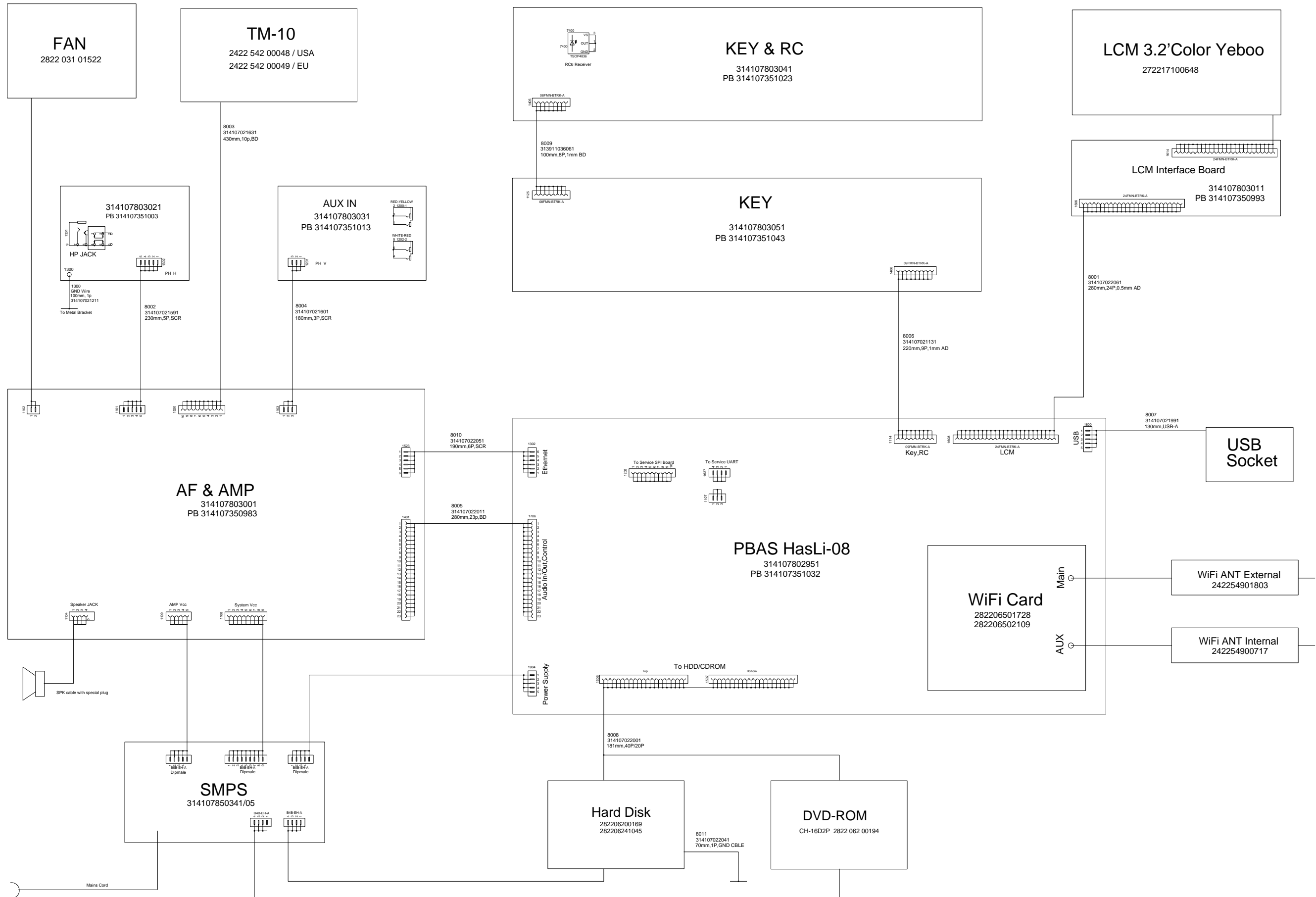
8. Tips - loader set as slave and HDD set as master.



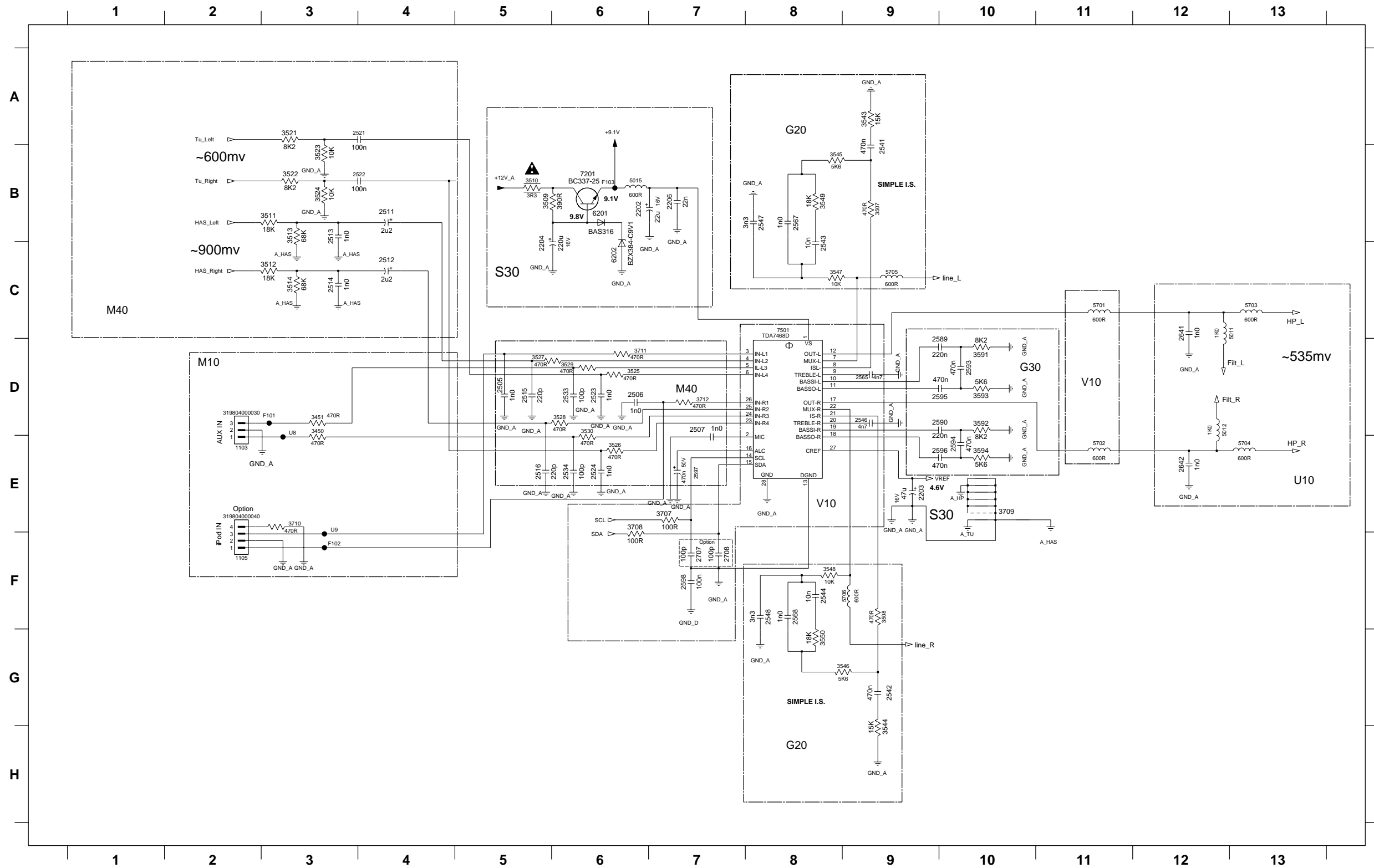
Block Diagram



Wiring Diagram

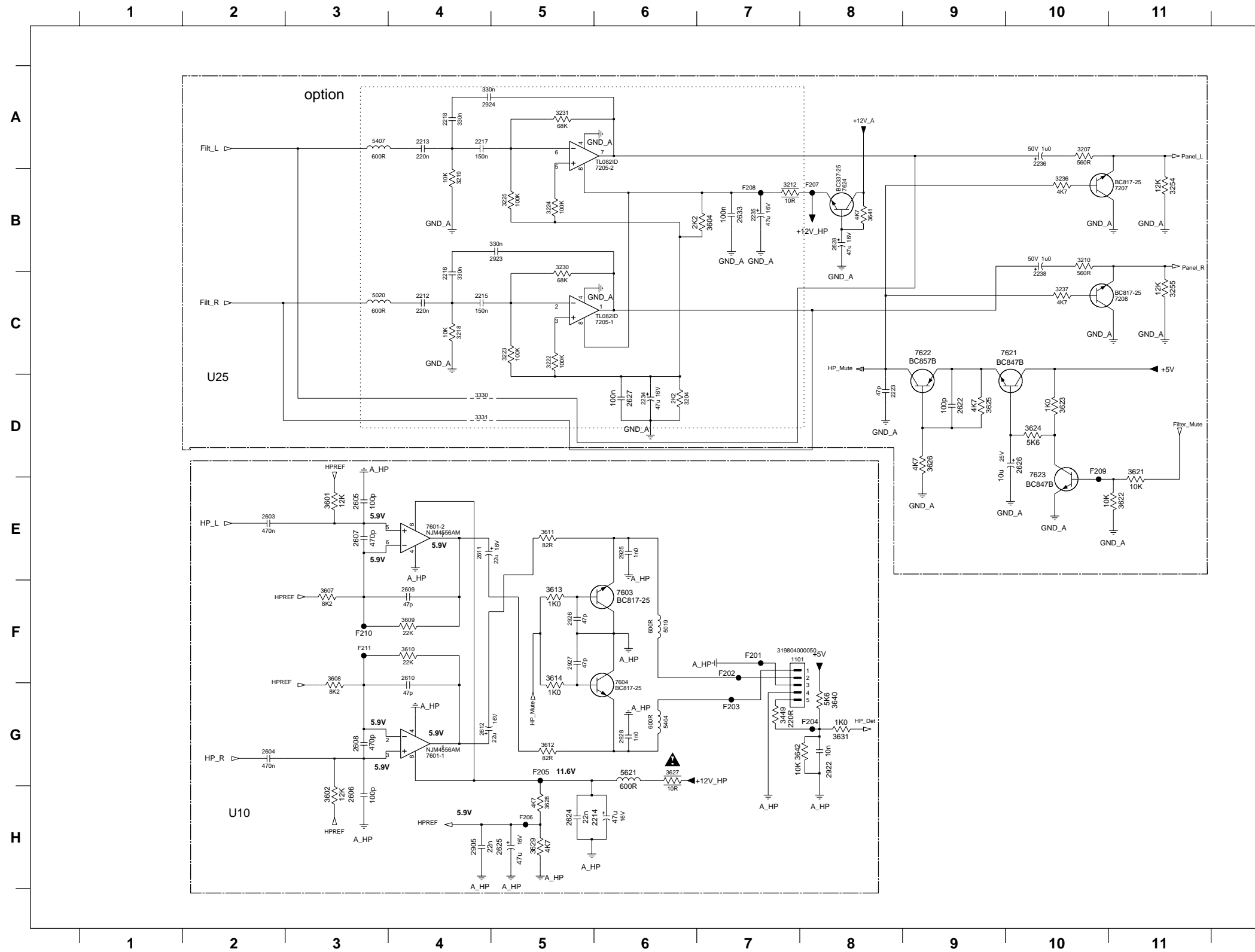


PB - AF/AMP - Circuit Diagram - Sheet1



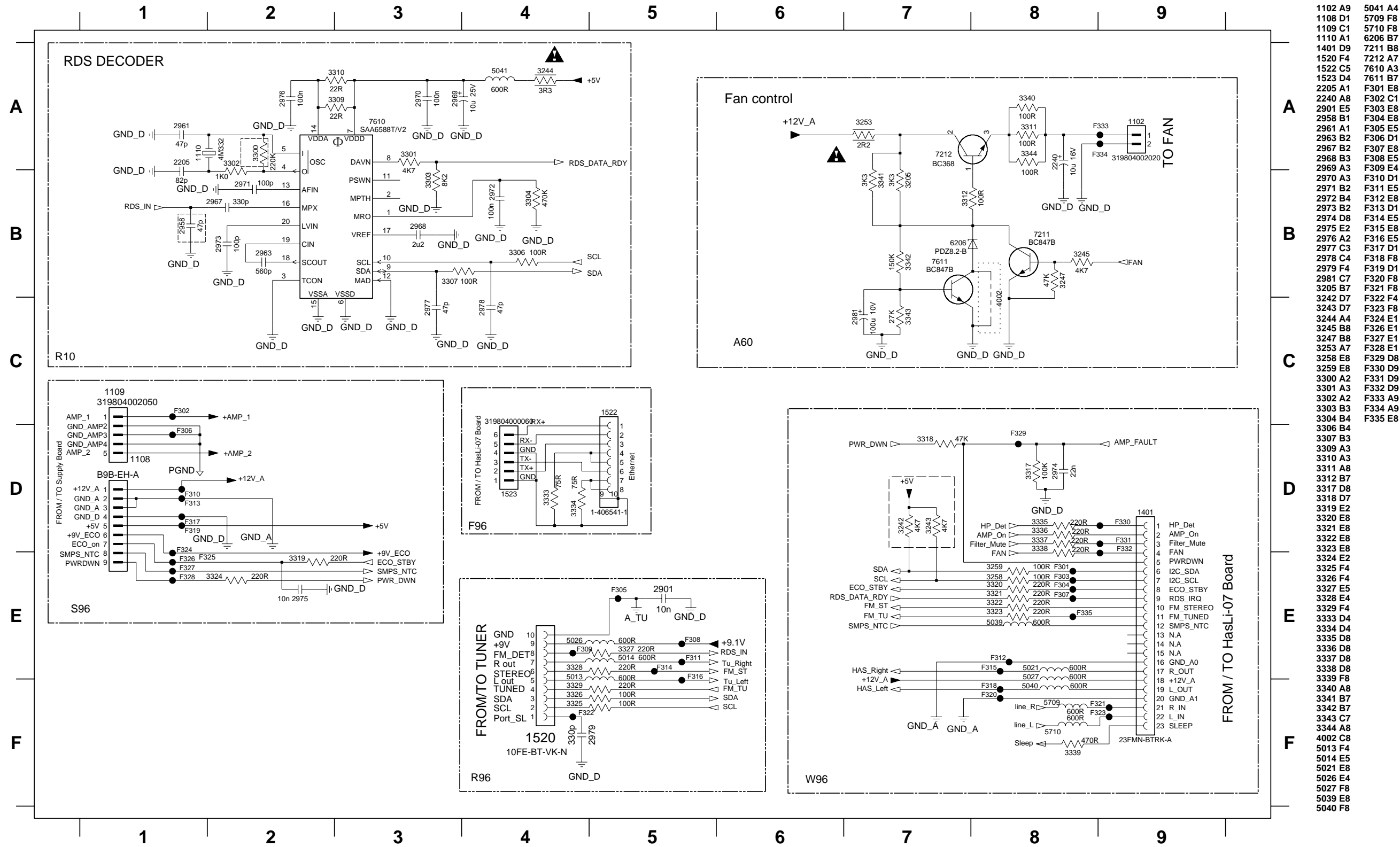
- 1103 E2
- 2202 B6
- 2203 E9
- 2204 C5
- 2206 B7
- 2505 D5
- 2506 D6
- 2507 D7
- 2511 B4
- 2512 C4
- 2513 B3
- 2514 C3
- 2515 D5
- 2516 E5
- 2521 A4
- 2522 B4
- 2523 D6
- 2524 E6
- 2533 D6
- 2534 E6
- 2541 B9
- 2542 G9
- 2543 C8
- 2544 F8
- 2546 D9
- 2547 B8
- 2548 F8
- 2555 D9
- 2567 B8
- 2568 F8
- 2589 D10
- 2590 D10
- 2593 D10
- 2594 E10
- 2595 D10
- 2596 E10
- 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 B3
- 3513 B3
- 3514 C3
- 3521 A3
- 3522 B3
- 3523 B3
- 3524 B3
- 3525 D6
- 3526 E6
- 3527 D5
- 3528 D6
- 3529 D6
- 3530 D6
- 3534 A9
- 3544 H9
- 3545 B8
- 3546 G9
- 3547 C8
- 3548 F8
- 3549 B8
- 3550 G8
- 3591 D10
- 3592 D10
- 3593 D10
- 3594 E10
- 3707 E7
- 3708 E6
- 3709 E10
- 5011 C12
- 5012 D12
- 5015 B6
- 5016 C11
- 5017 E11
- 5018 C13
- 5019 E13
- 5705 C9
- 5706 F9
- 6201 B6
- 6202 C6
- 7201 B6
- 7501 C8
- F101 D3
- F102 D3
- F103 B6

PB - AF/AMP - Circuit Diagram - Sheet2



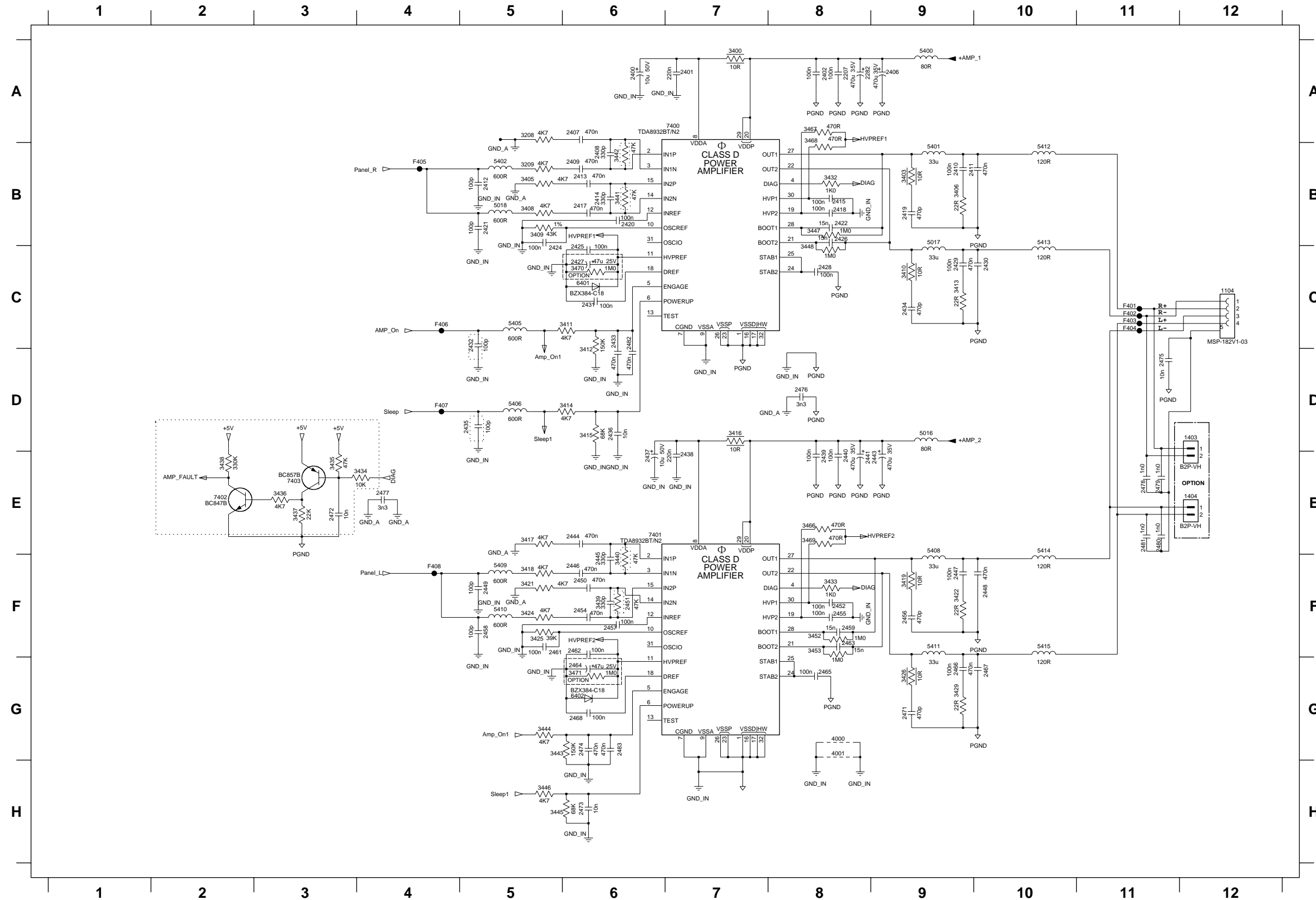
- 1101 F7
- 2212 C4
- F208 B7
- 2213 A4
- F209 D10
- 2214 H6
- F210 F3
- 2215 C4
- F211 F3
- 2216 C4
- 2217 A4
- 2218 A4
- 2223 D8
- 2234 D6
- 2235 B7
- 2236 A10
- 2238 B10
- 2603 E2
- 2604 G2
- 2605 E3
- 2606 H3
- 2607 E3
- 2608 G3
- 2609 F4
- 2610 F4
- 2611 E4
- 2622 D9
- 2623 H5
- 2625 H5
- 2626 D10
- 2627 D6
- 2628 B8
- 2633 B7
- 2905 H4
- 2922 B8
- 2923 B5
- 2924 A4
- 2925 E6
- 2926 F5
- 2927 F5
- 2928 G6
- 3204 D6
- 3207 A10
- 3210 B10
- 3212 B7
- 3218 C4
- 3219 B4
- 3222 C5
- 3223 C5
- 3224 B5
- 3225 B5
- 3230 B5
- 3231 A5
- 3236 B10
- 3237 C10
- 3254 B11
- 3255 C11
- 3330 D4
- 3331 D4
- 3449 G7
- 3601 E3
- 3602 H3
- 3604 B7
- 3607 F3
- 3608 F3
- 3609 F4
- 3610 F4
- 3611 E5
- 3612 G5
- 3613 F5
- 3614 F5
- 3621 D11
- 3622 E11
- 3623 D10
- 3624 D10
- 3625 D9
- 3626 D9
- 3627 G6
- 3628 H5
- 3629 H5
- 3631 G8
- 3640 G8
- 3641 B8
- 3642 G8
- 5019 F6
- 5020 C3
- 5404 G6
- 5407 A3
- 5621 G6
- 7205-1 C6
- 7205-2 A6
- 7207 B11
- 7208 C11
- 7601-1 G4
- 7601-2 E4
- 7603 F6
- 7604 G6
- 7621 C10
- 7622 C9
- 7623 D10
- 7624 B8
- F201 F7
- F202 F7
- F203 G7
- F204 G8
- F205 G5
- F206 H5

PB - AF/AMP - Circuit Diagram - Sheet3



- 1102 A9
- 1108 D1
- 1109 C1
- 1110 A1
- 1401 D9
- 1520 F4
- 1522 C5
- 1523 D4
- 2205 A1
- 2240 A8
- 2901 E5
- 2958 B1
- 2961 A1
- 2963 B2
- 2967 B2
- 2968 B3
- 2969 A3
- 2970 A3
- 2971 B2
- 2972 B4
- 2973 B2
- 2974 D8
- 2975 E2
- 2976 A2
- 2977 C3
- 2978 C4
- 2979 F4
- 2981 C7
- 3205 B7
- 3242 D7
- 3243 D7
- 3244 A4
- 3245 B8
- 3247 B8
- 3253 A7
- 3258 E8
- 3259 E8
- 3300 A2
- 3301 A3
- 3302 A2
- 3303 B3
- 3304 B4
- 3306 B4
- 3307 B3
- 3309 A3
- 3310 A3
- 3311 A8
- 3312 B7
- 3317 D8
- 3318 D7
- 3319 E2
- 3320 E8
- 3321 E8
- 3322 E8
- 3323 E8
- 3324 E2
- 3325 F4
- 3326 F4
- 3327 E5
- 3328 E4
- 3329 F4
- 3333 D4
- 3334 D4
- 3335 D8
- 3336 D8
- 3337 D8
- 3338 D8
- 3339 F8
- 3340 A8
- 3341 B7
- 3342 B7
- 3343 C7
- 3344 A8
- 4002 C8
- 5013 F4
- 5014 E5
- 5021 E8
- 5026 E4
- 5027 F8
- 5039 E8
- 5040 F8
- 5041 A4
- 5709 F8
- 5710 F8
- 6206 B7
- 7211 B8
- 7212 A7
- 7610 A3
- 7611 B7
- F301 E8
- F302 C1
- F303 E8
- F304 E8
- F305 E5
- F306 D1
- F307 E8
- F308 E5
- F309 E4
- F310 D1
- F311 E5
- F312 E8
- F313 D1
- F314 E5
- F315 E8
- F316 E5
- F317 D1
- F318 F8
- F319 D1
- F320 F8
- F321 F8
- F322 F4
- F323 F8
- F324 E1
- F326 E1
- F327 E1
- F328 E1
- F329 D8
- F330 D9
- F331 D9
- F332 D9
- F333 A9
- F334 A9
- F335 E8

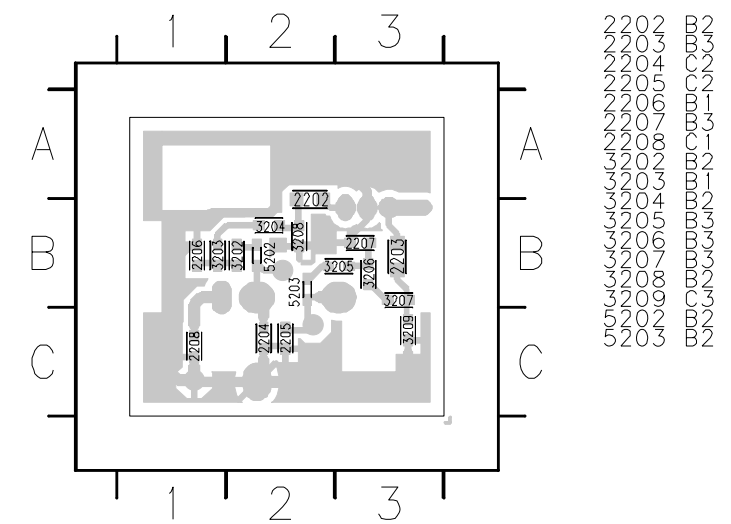
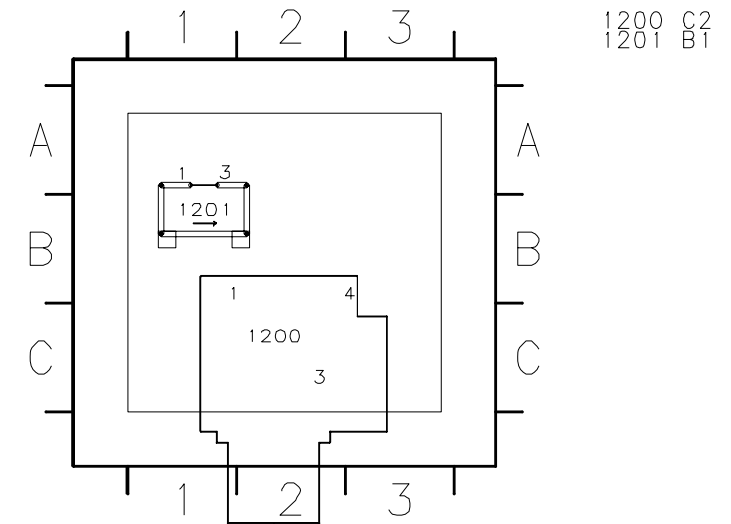
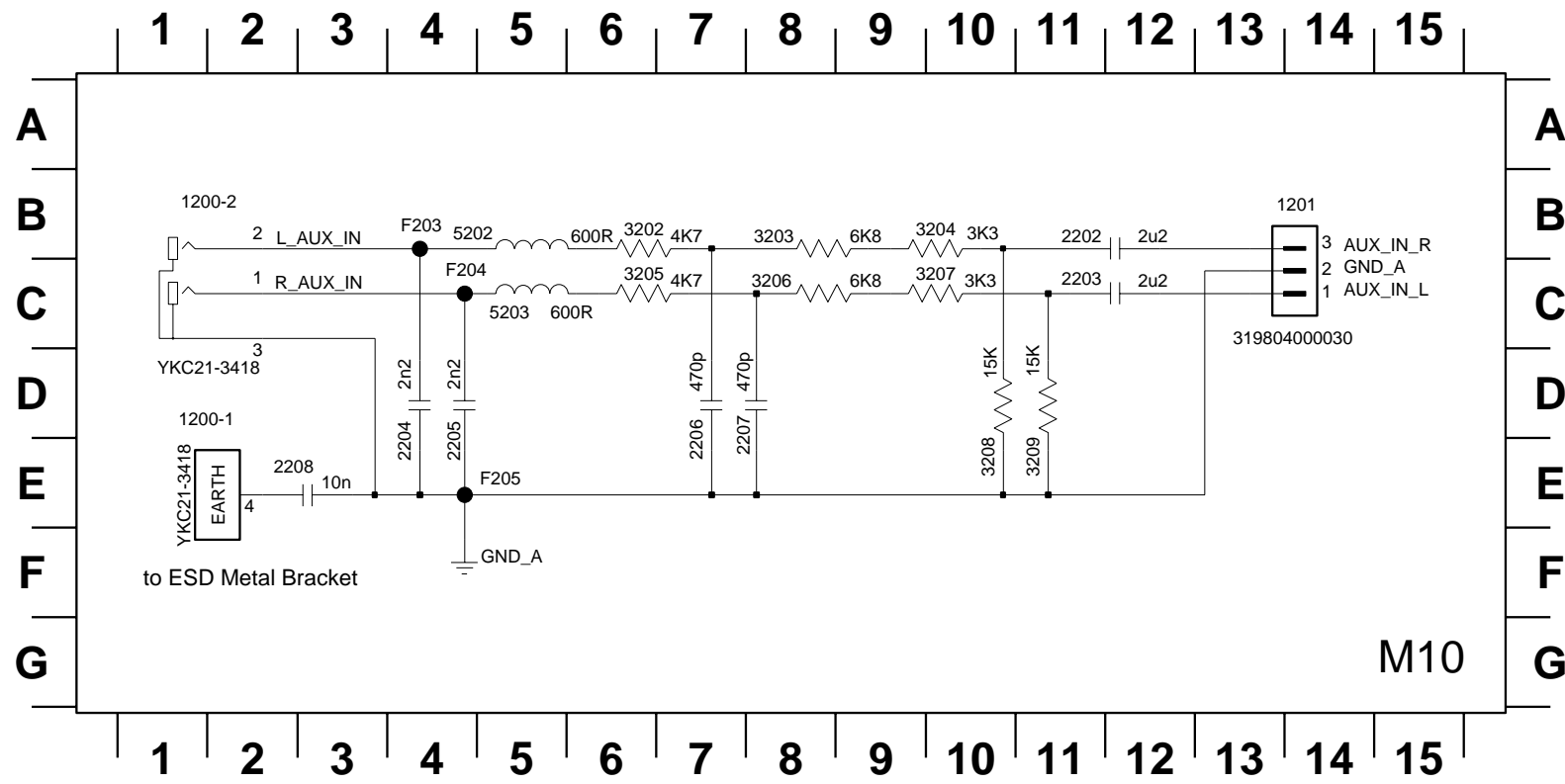
PB - AF/AMP - Circuit Diagram - Sheet4



1104 C12	3421 F5
1403 D12	3422 F9
1404 E12	3424 F5
2207 A8	3425 F5
2282 A8	3426 G9
2400 A6	3429 G9
2401 A7	3432 B8
2402 A8	3433 F8
2406 A9	3434 E4
2407 A6	3435 E3
2408 B6	3436 E3
2409 B6	3437 E3
2410 B9	3438 E2
2411 B9	3439 F6
2412 B5	3440 F6
2413 B6	3441 B6
2414 B6	3442 B6
2415 B8	3443 G5
2417 B6	3444 G5
2418 B8	3445 H5
2419 B9	3446 H5
2420 B6	3447 B8
2421 B5	3448 B8
2422 B8	3452 F8
2424 C5	3453 F8
2425 C6	3462 C3
2426 B8	3463 C3
2427 C6	3464 C2
2428 C8	3465 C3
2429 C9	3466 E8
2430 C10	3467 A8
2431 C6	3468 A8
2432 C5	3469 E8
2433 C6	3470 C6
2434 C9	3471 G6
2435 D5	4000 G8
2436 D6	4001 G8
2437 E6	4004 D3
2438 E7	5016 D9
2439 E8	5017 B9
2440 E8	5018 B5
2441 E8	5400 A9
2443 E9	5401 B9
2444 E6	5402 B5
2445 F6	5405 C5
2446 F6	5406 D5
2447 F9	5408 E9
2448 F10	5409 F5
2449 F5	5410 F5
2450 F6	5411 F9
2451 F6	5412 B10
2452 F8	5413 C10
2454 F6	5414 F10
2455 F8	5415 F10
2456 F9	6401 C6
2457 F6	6402 G6
2458 F5	7400 A7
2459 F8	7401 E6
2461 F5	7402 E2
2462 F6	7403 E3
2463 F8	7408 C3
2464 G6	7409 C2
2465 G8	F401 C11
2466 G10	F402 C11
2467 G10	F403 C11
2468 G6	F404 C11
2471 G9	F405 B4
2472 E3	F406 C4
2473 H6	F407 D4
2474 G6	F408 F4
2475 D11	
2476 D8	
2477 E4	
2478 E11	
2479 E11	
2480 E11	
2481 E11	
2482 C6	
2483 G6	
2488 D2	
2489 D3	
3208 A5	
3209 B5	
3400 A7	
3403 B9	
3405 B5	
3406 B9	
3408 B5	
3409 B5	
3410 C9	
3411 C6	
3412 C6	
3413 C9	
3414 D6	
3415 D6	
3416 D7	
3417 E5	
3418 F5	
3419 F9	

PB - AUX IN

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

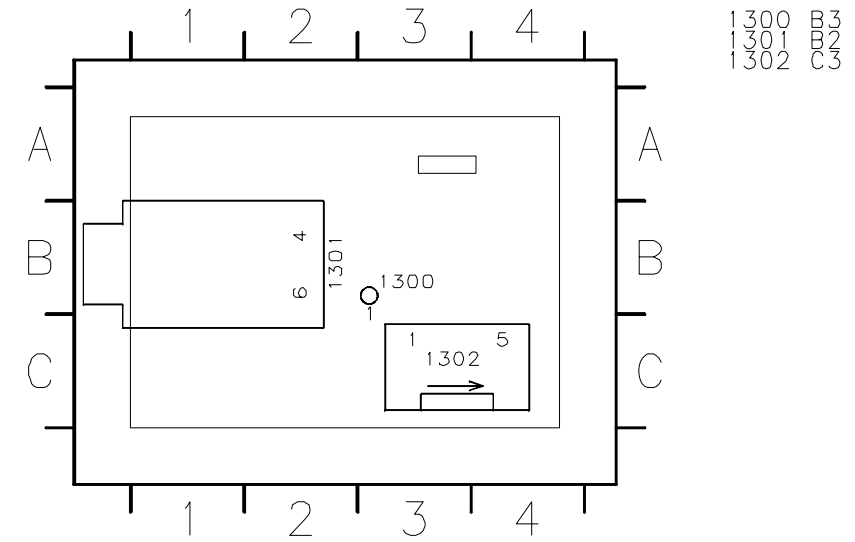
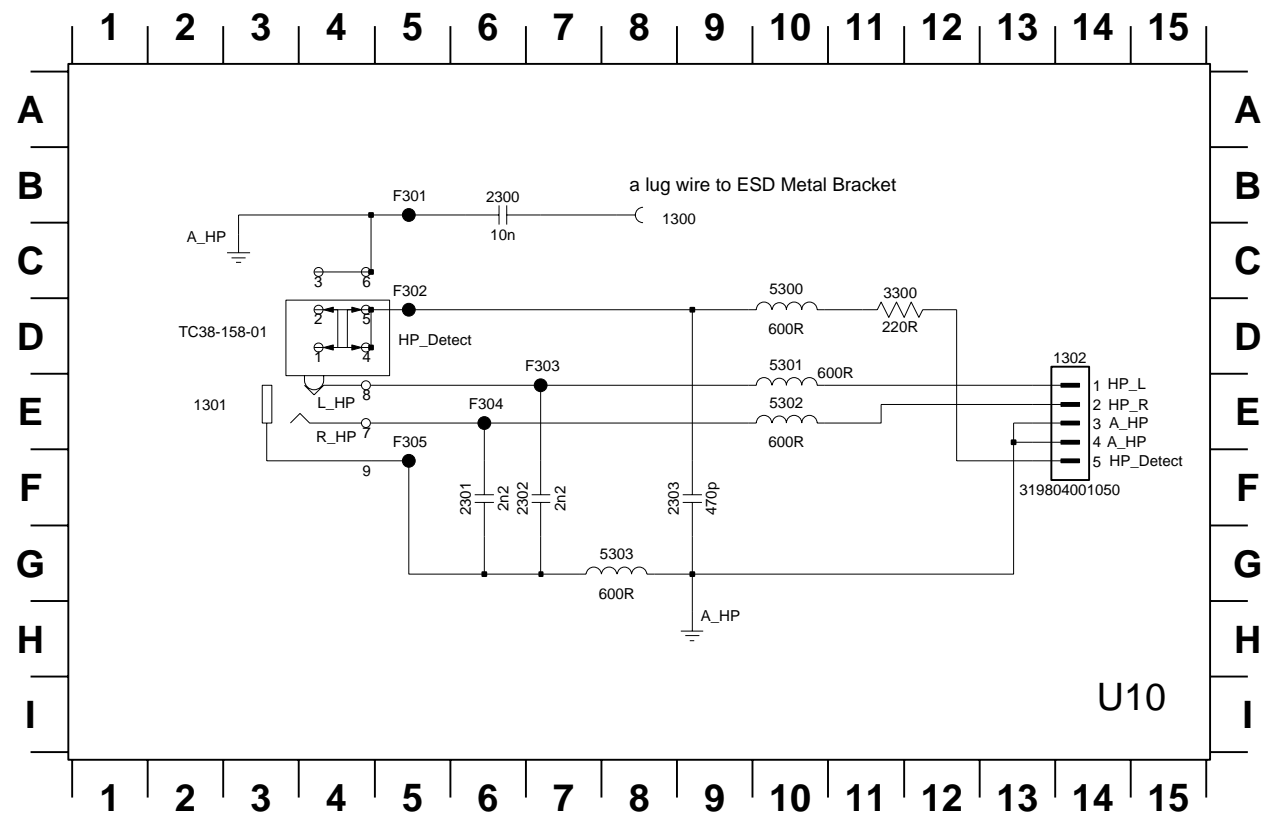


1200 C2
1201 B1

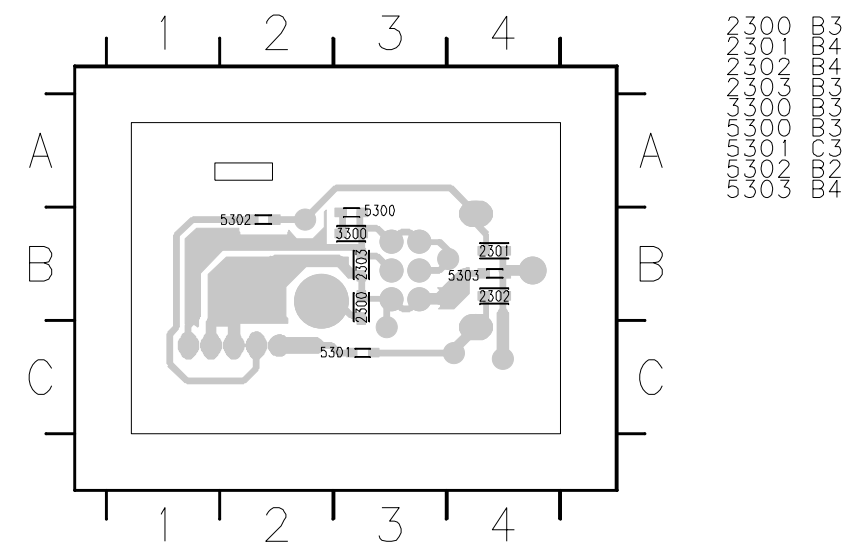
2202 B2
2203 C2
2204 C3
2205 C4
2206 C5
2207 C6
2208 C7
2209 C8
2203 B1
2204 B2
2205 B3
2206 B4
2207 B5
2208 B6
2209 B7
2203 A1
2204 A2
2205 A3
2206 A4
2207 A5
2208 A6
2209 A7

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

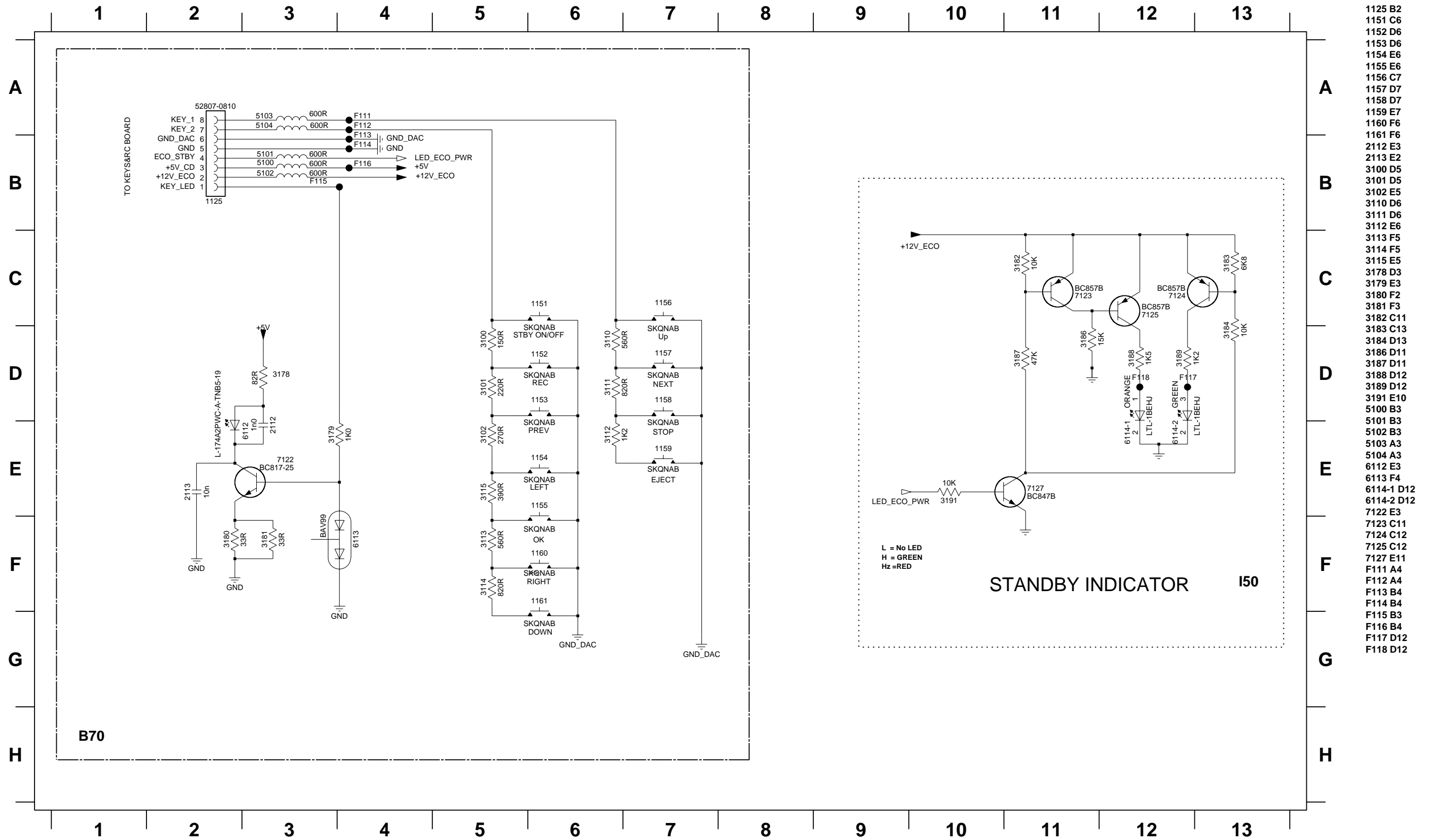


1300 B3
 1301 B2
 1302 C3

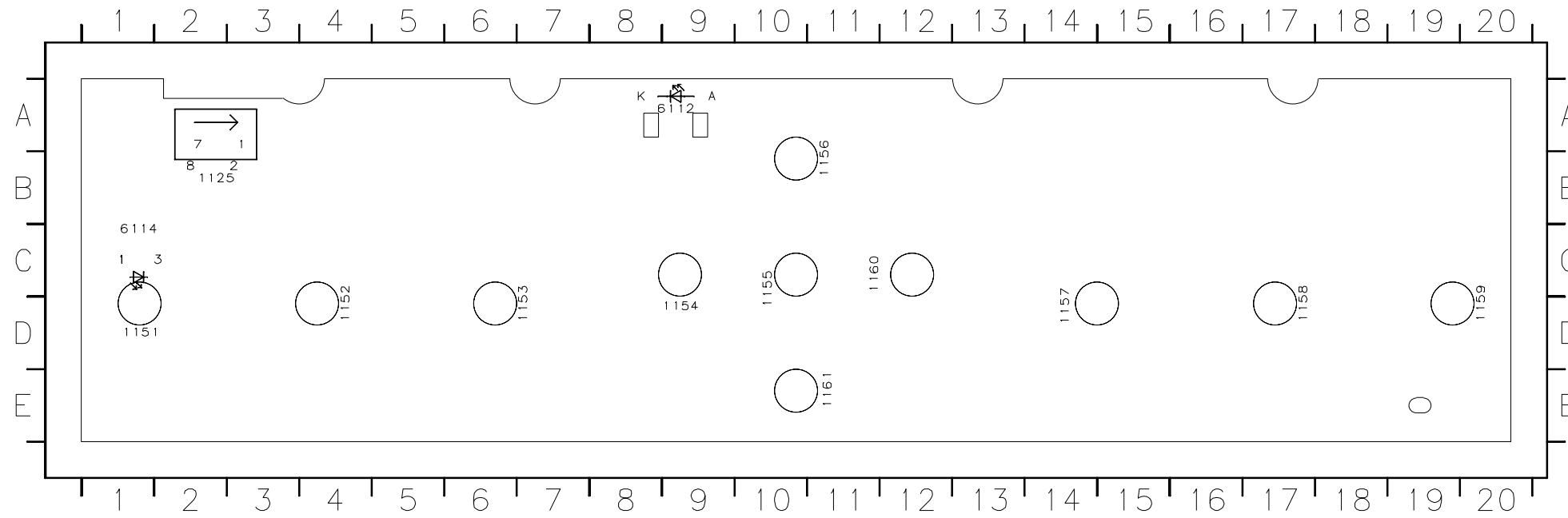


2300 B3
 2301 B2
 2302 C3
 5300 B3
 5301 B2
 5302 C3
 5303 B3
 2301 B2
 2302 C3

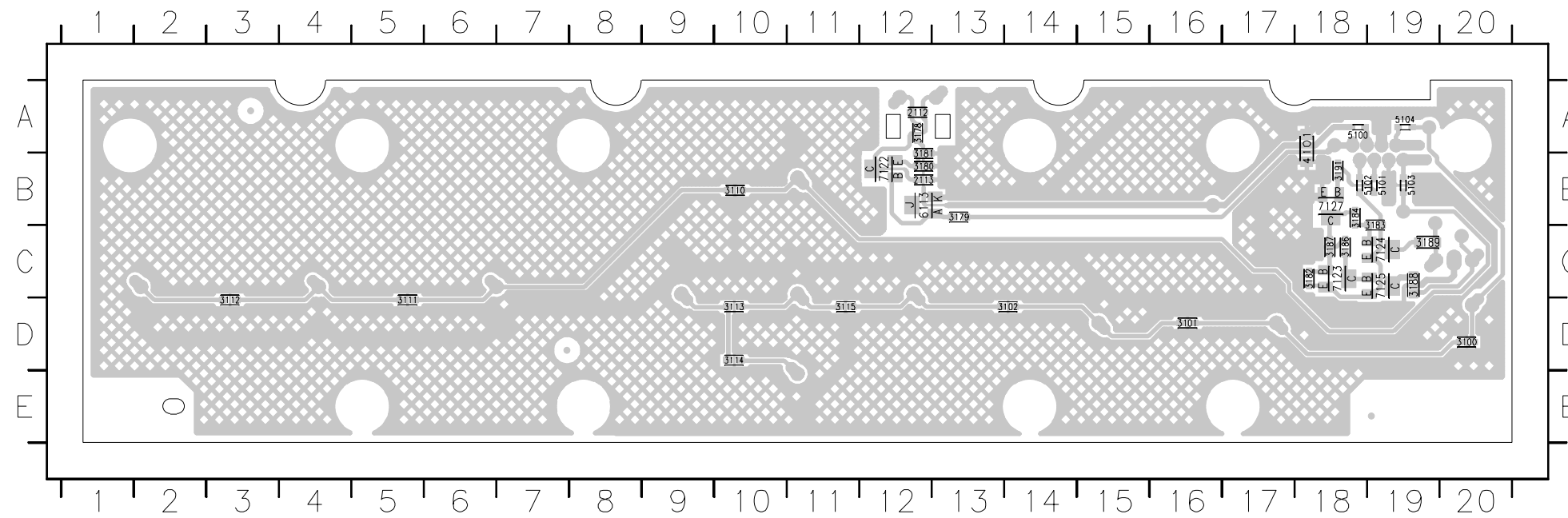
PB - Keys - Circuit Diagram



PB - Keys - Layout Diagram



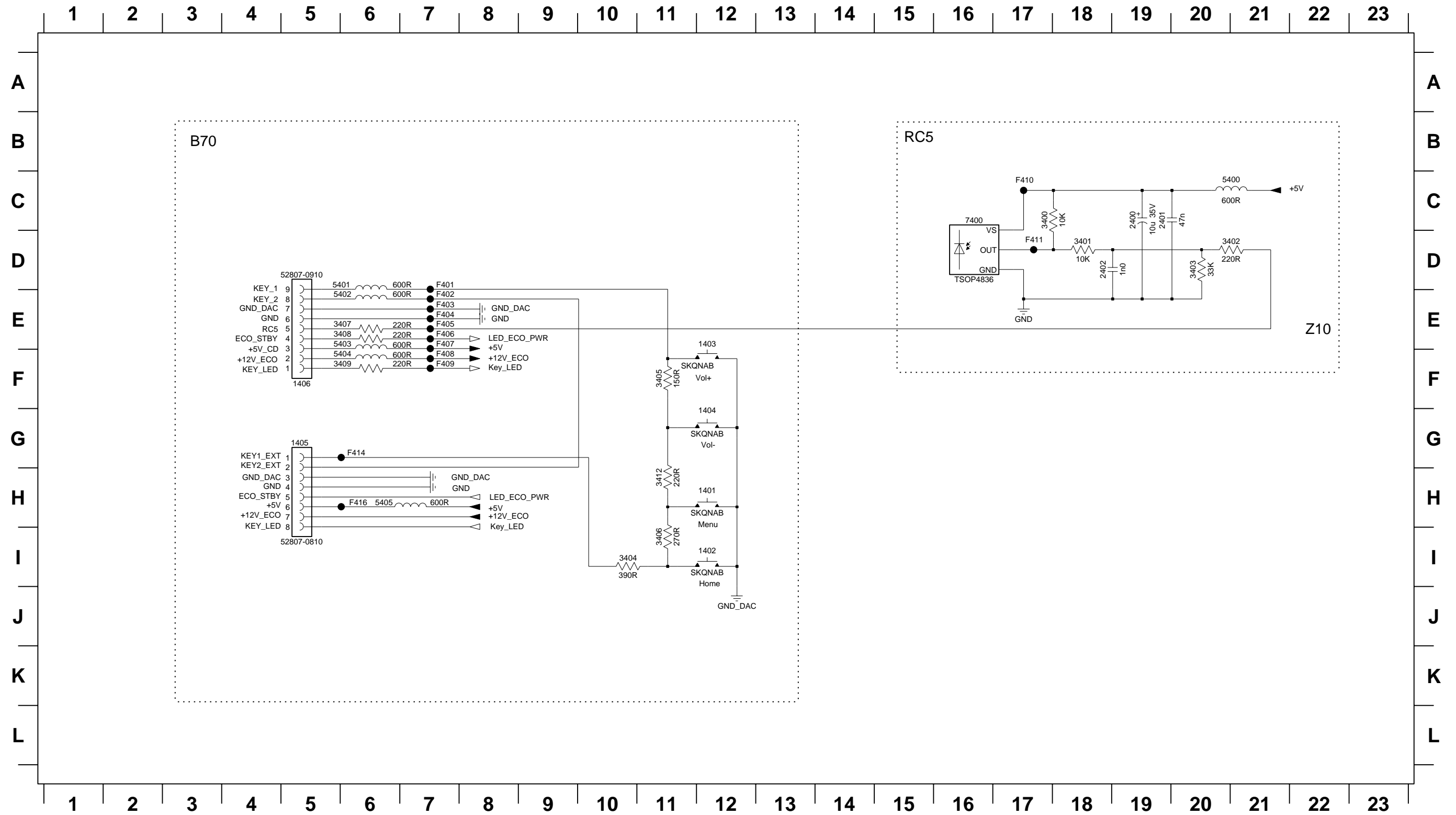
11
 12
 13
 14
 15
 16
 17
 18
 19
 20
 A
 B
 C
 D
 E



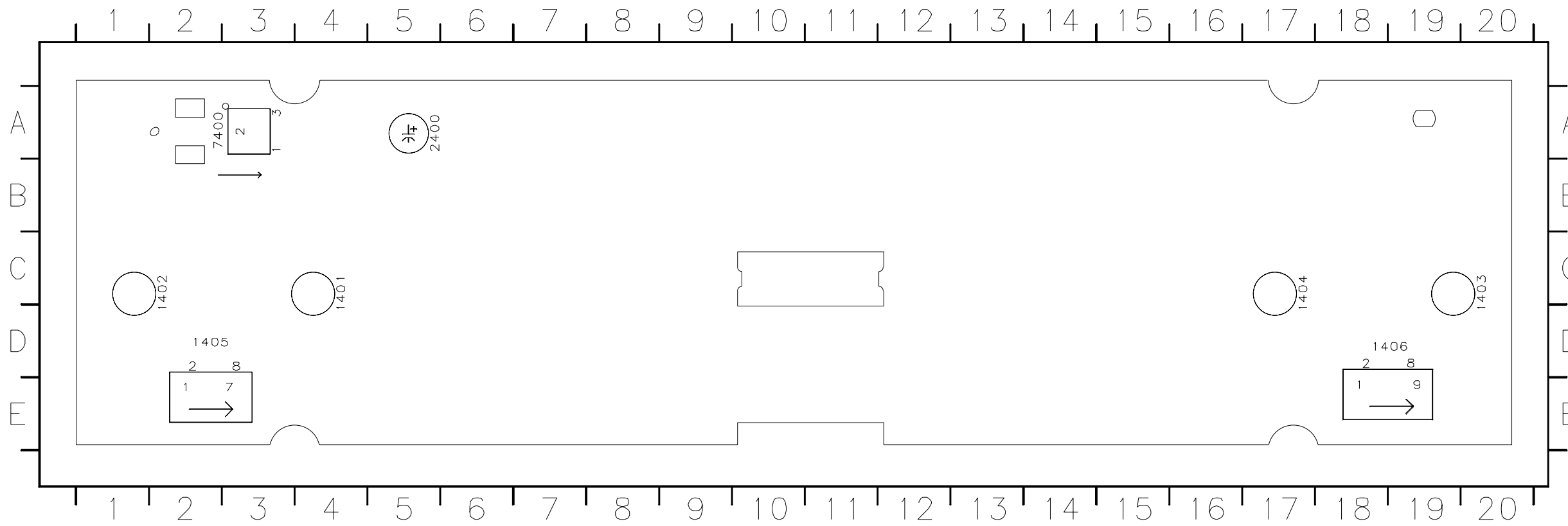
11
 12
 13
 14
 15
 16
 17
 18
 19
 20
 A
 B
 C
 D
 E

PB - Keys&RC - Circuit Diagram

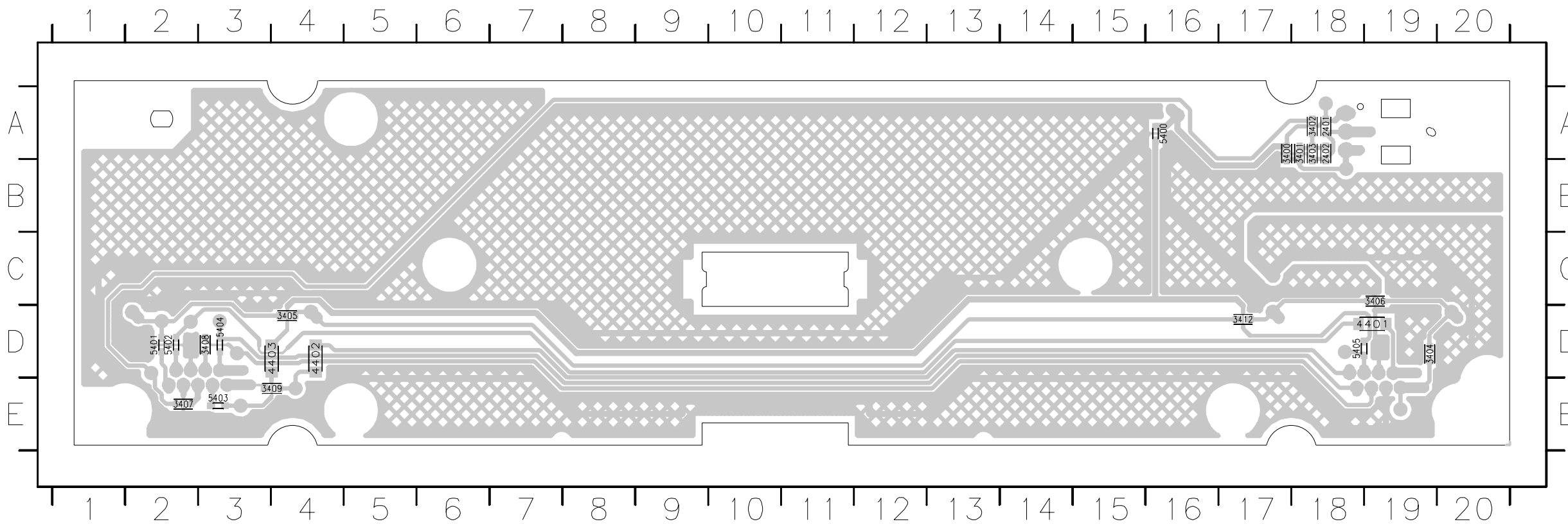
1401 H12 1403 E12 1405 G5 2400 C19 2402 D18 3401 D18 3403 D20 3405 F11 3407 E6 3409 F6 5400 C21 5402 E6 5404 F6 7400 C16 F402 E7 F404 E7 F406 E7 F408 F7 F410 C17 F414 G6
 1402 I12 1404 G12 1406 F5 2401 C19 3400 C17 3402 D21 3404 I10 3406 I11 3408 E6 3412 H11 5401 D6 5403 E6 5405 H6 F401 D7 F403 E7 F405 E7 F407 E7 F409 F7 F411 D17 F416 H6



PB - Keys&RC - Layout Diagram



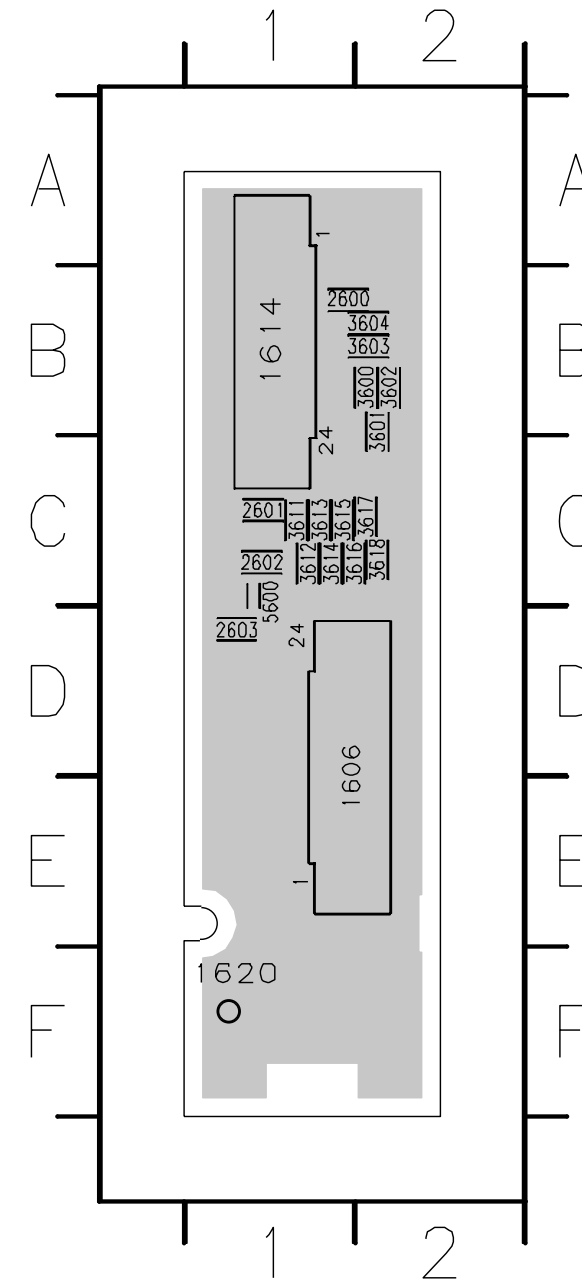
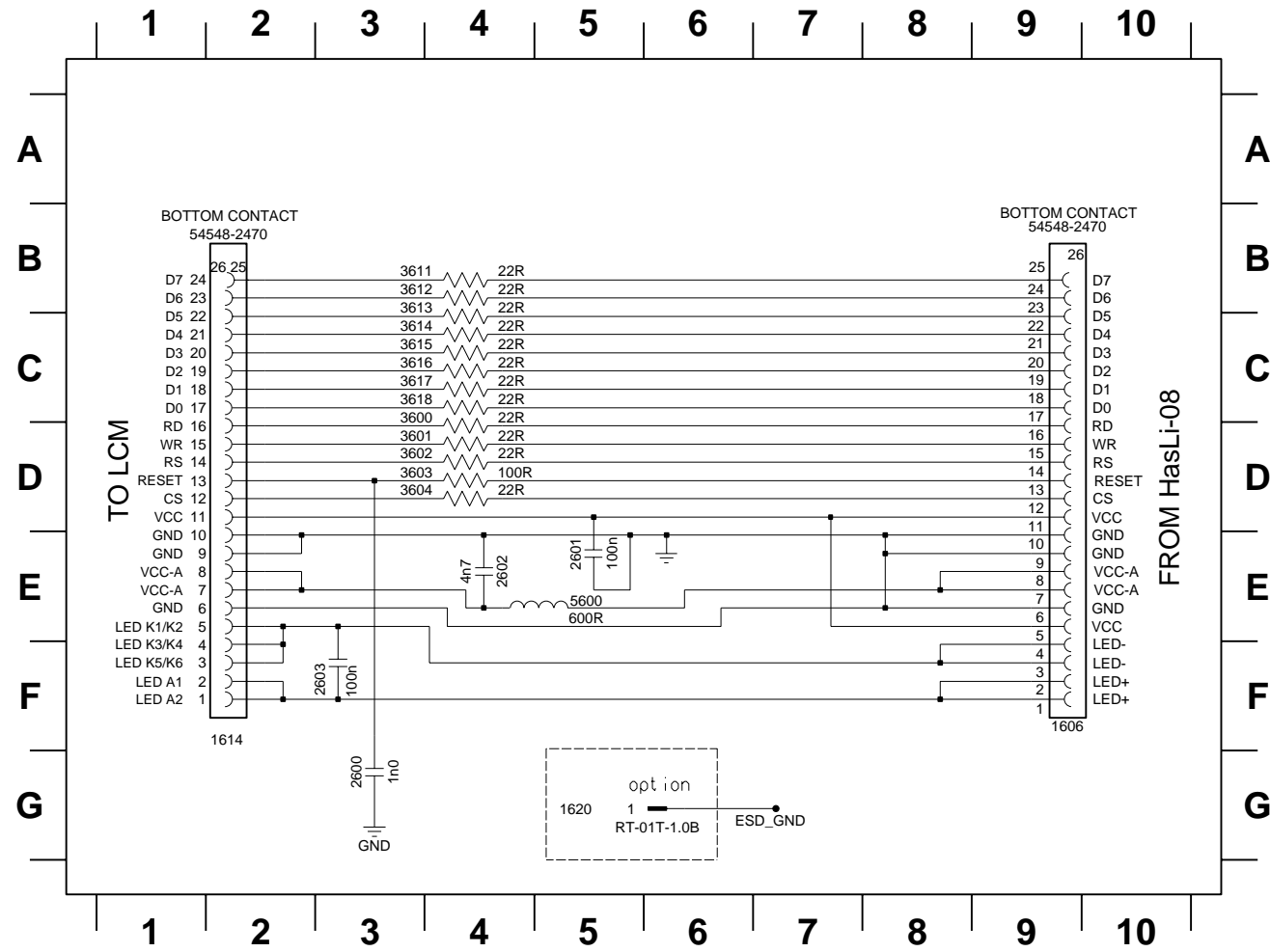
- 1401 C4
- 1402 C2
- 1403 C20
- 1404 C17
- 1405 D2
- 1406 D19
- 2400 A5
- 7400 A2



- 2401 A18
- 2402 A17
- 3400 A18
- 3401 A18
- 3402 A18
- 3403 A18
- 3404 D19
- 3405 D4
- 3406 C19
- 3407 F2
- 3408 D3
- 3409 E4
- 3412 D17
- 4401 D19
- 4402 D4
- 4403 D4
- 5400 A16
- 5401 D2
- 5402 D2
- 5403 F3
- 5404 D3
- 5405 D18

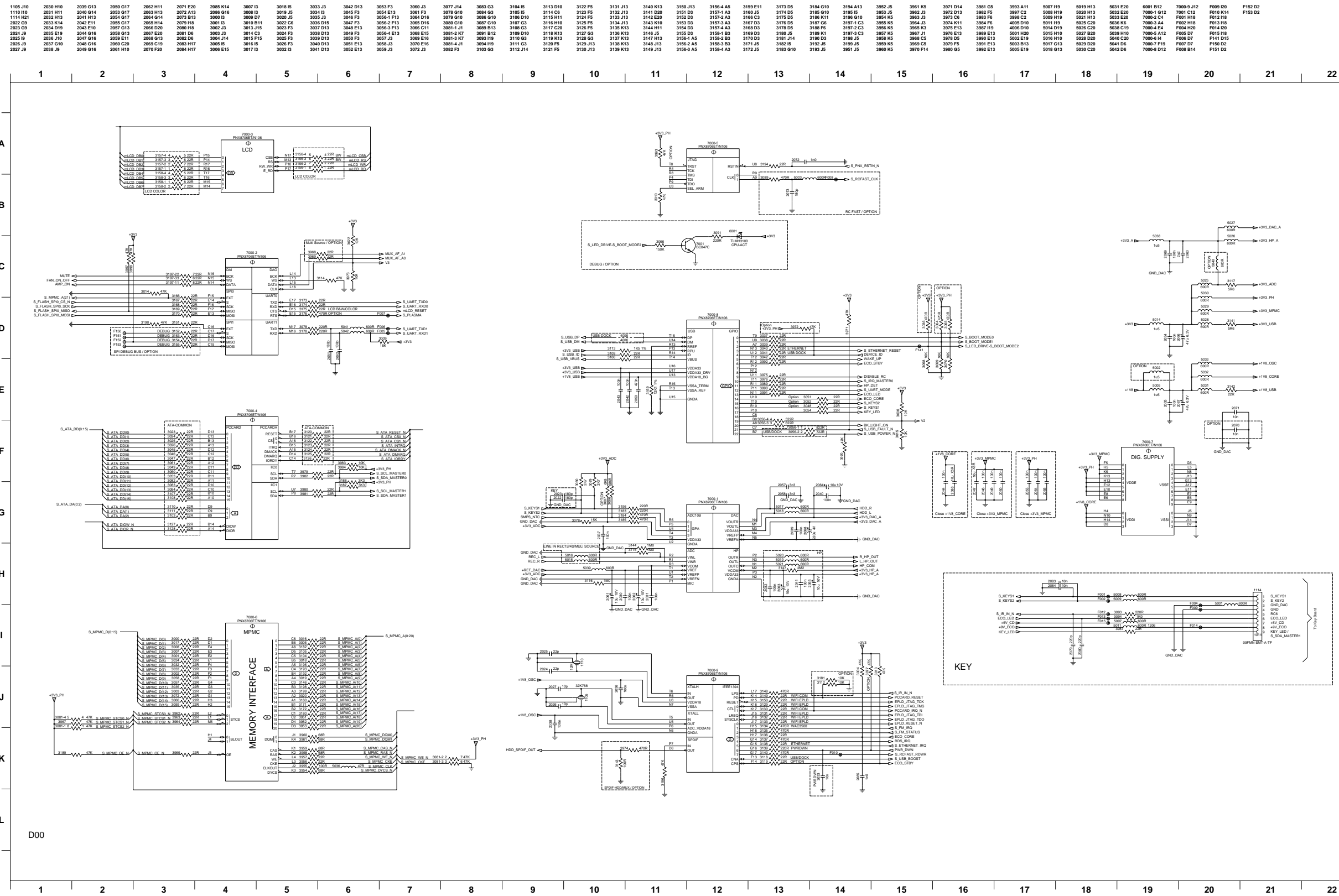
PB - LCD Interface

1606 F9	1620 G2	2601 E5	2603 F3	3601 D3	3603 D3	3611 B3	3613 B3	3615 C3	3617 C3	5600 E5
1614 F2	2600 D1	2602 E4	3600 C3	3602 D3	3604 D3	3612 B3	3614 C3	3616 C3	3618 C3	



1606	F	1
1614	F	1
1620	F	1
2600	B	1
2601	B	1
2602	B	1
2603	B	1
3601	B	1
3602	B	1
3603	B	1
3604	B	1
3611	B	1
3612	B	1
3613	B	1
3614	B	1
3615	B	1
3616	B	1
3617	B	1
3618	B	1
5600	B	1

PB HasLI-08 - Circuit Digram - CPU Core Part

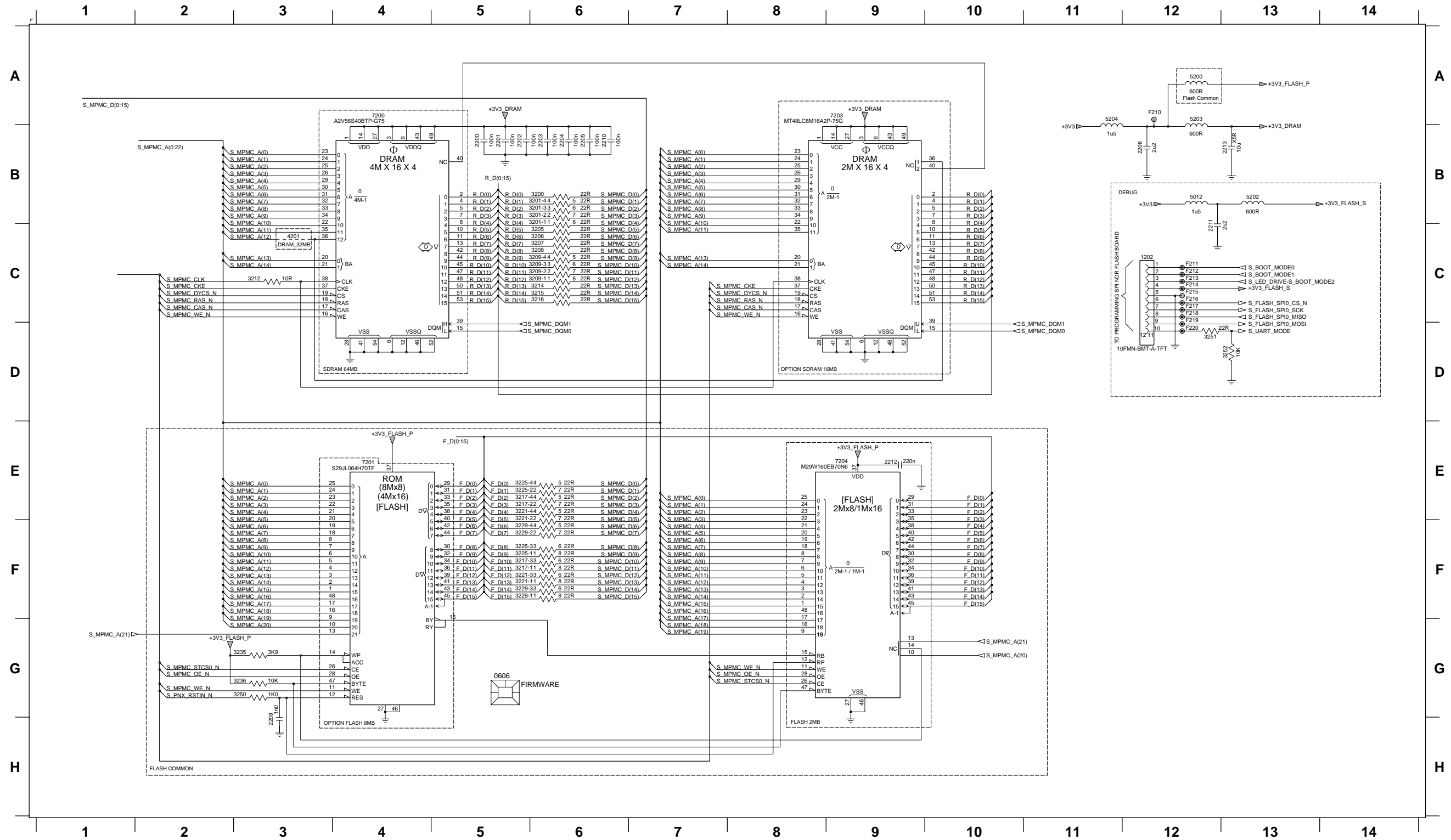


Ref. Des.	MC65001		EU	US
3078	15K		X	
3087	6K8			X

Ref. Des.	EU	US
3015	X	10K
3022	10K	10K
3073	X	X

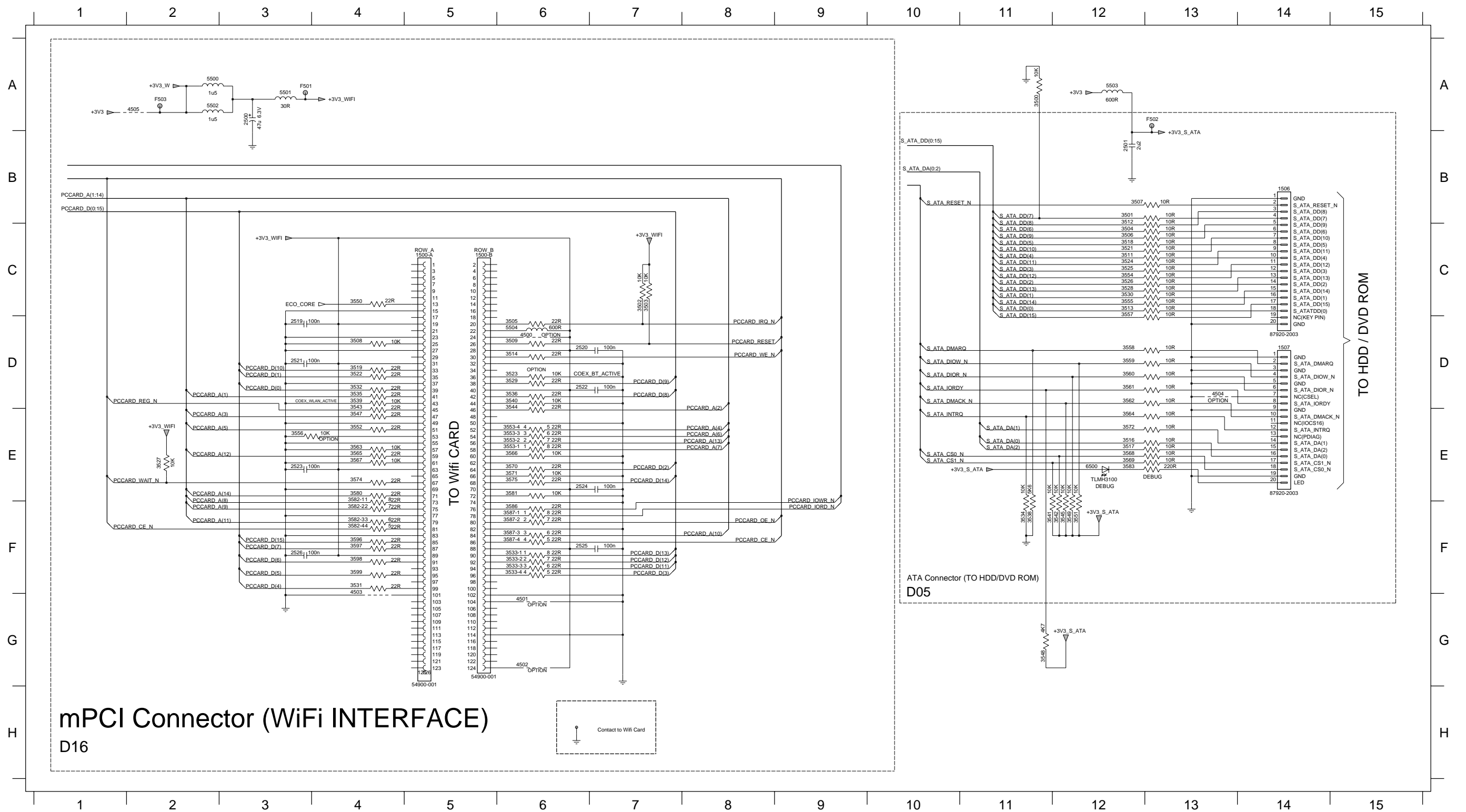
PB HasLI-08 - Circuit Digram - FLASH & SDRAM Part

0606 G5	2201 B5	2204 B6	2209 H3	2212 E9	3201-1 C6	3201-4 B6	3207 C6	3209-2 C6	3212 C3	3216 C6	3217-3 F5	3221-2 F5	3225-1 F5	3225-4 E5	3229-3 F5	3236 G3	3252 D13	5200 A12	5204 A11	7203 A9	F211 C12	F214 C12	F217 C12	F220 D12
1202 C12	2202 B5	2205 B6	2210 B6	2213 B13	3201-2 B6	3205 C6	3208 C6	3209-3 C6	3214 C6	3217-1 F5	3217-4 E5	3221-3 F5	3225-2 E5	3229-1 F5	3229-4 F5	3250 G3	4201 C3	5202 B13	7200 A4	7204 E9	F212 C12	F215 C12	F218 C12	
2200 B5	2203 B6	2206 B12	2211 C12		3201-3 B6	3206 C6	3209-1 C6	3209-4 C6	3215 C6	3217-2 E5	3221-1 F5	3225-3 F5	3229-2 F5	3235 G3	3251 D12	5012 B12	5203 A12	7201 E4	F210 A12	F213 C12	F216 C12	F219 C12		



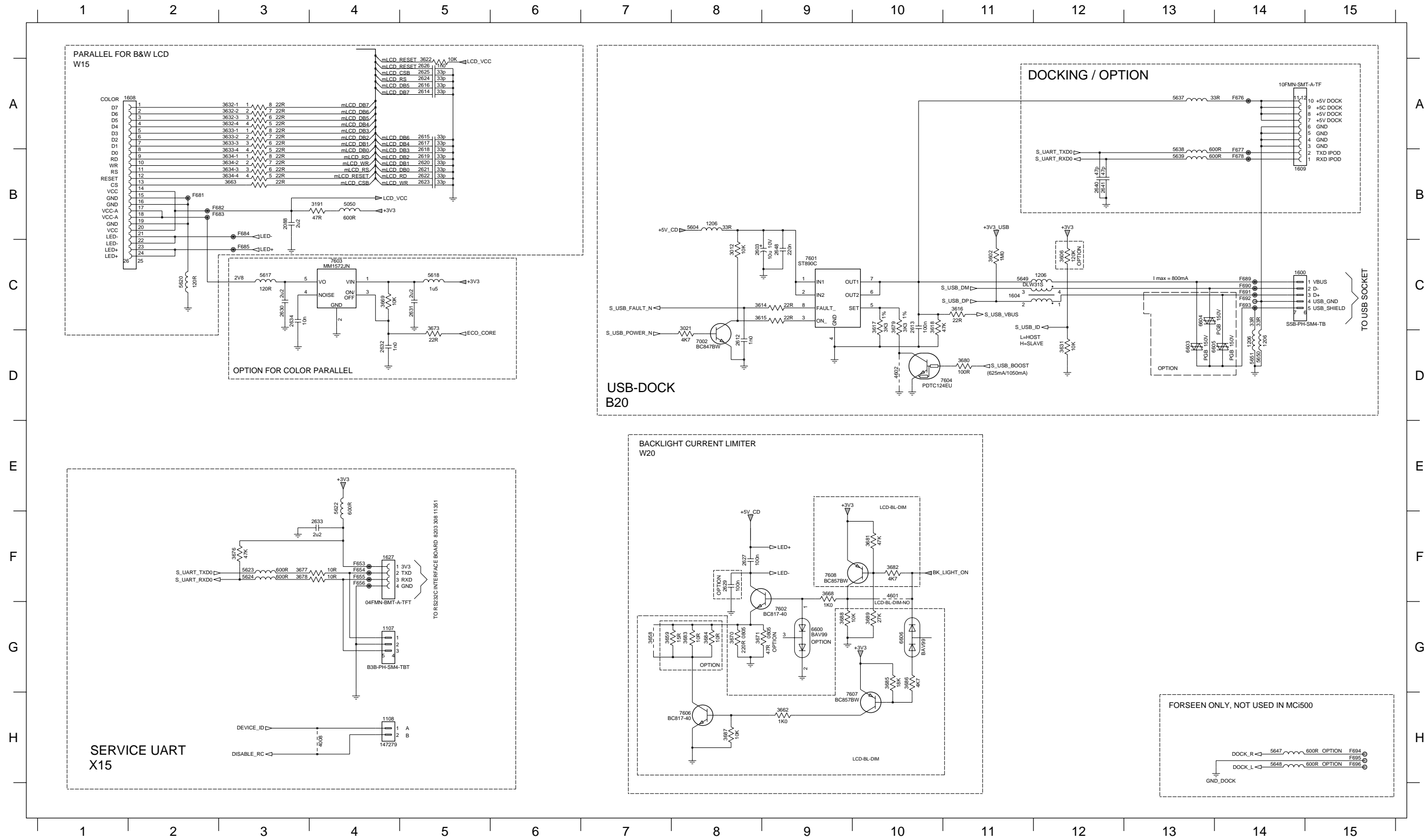
PB HasLI-08 - Circuit Digram - mPCI & ATA Connector Part

1500-A C5	2500 A3	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	5500 A2	5504 D6	F503 A2
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	5501 A3	6500 E12	
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 F11	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	4504 D13	5502 A2	F501 A3		
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	4505 A2	5503 A12	F502 A13	

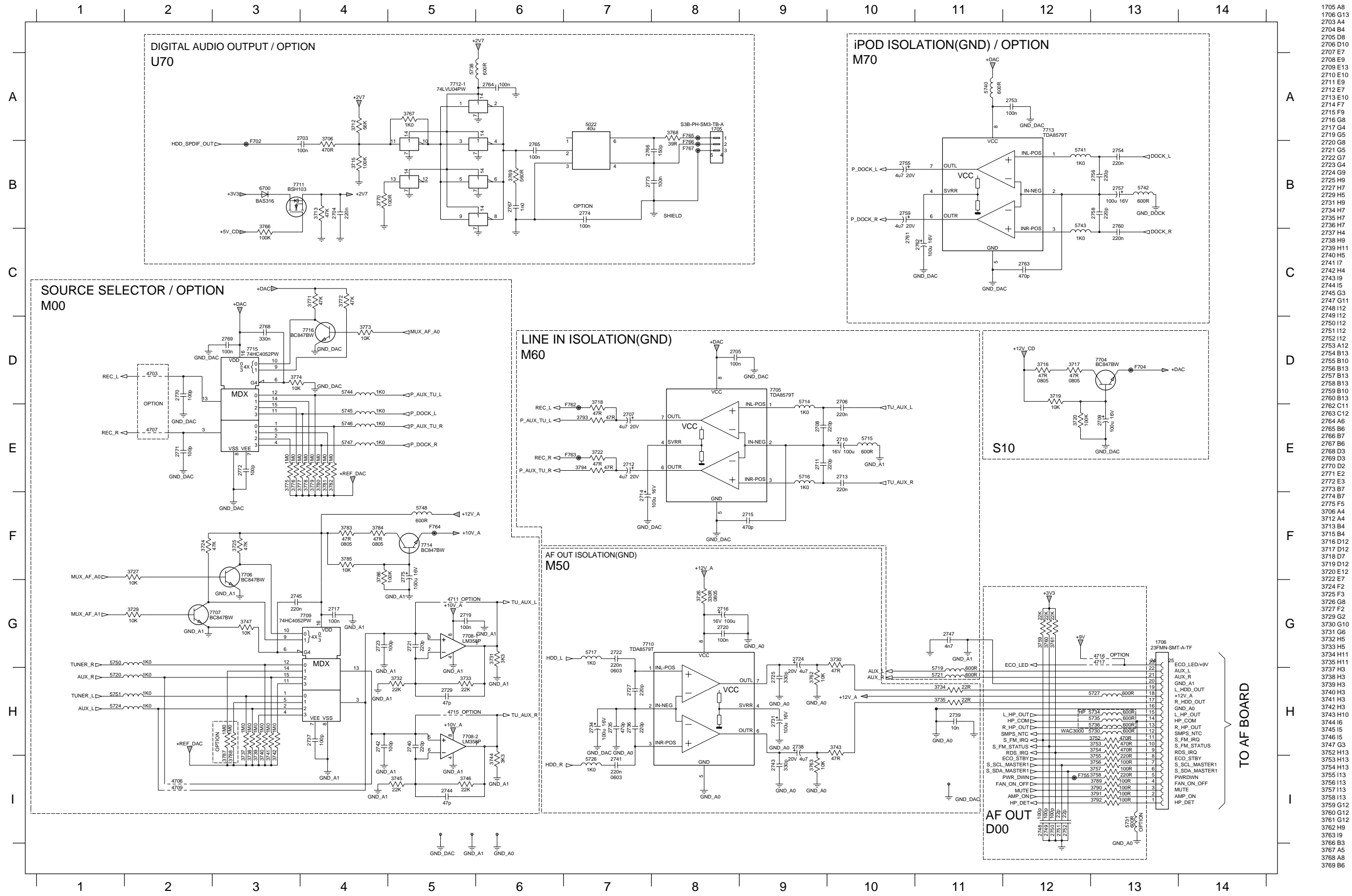


PB HasLI-08 - Circuit Digram - I/O Interface Part

1107 G4	1609 B14	2613 C10	2618 B5	2623 B5	2629 F8	2634 C3	3021 C8	3615 C8	3631 D12	3633-1 A3	3634-2 B3	3662 H9	3671 G8	3679 C10	3684 G8	3689 G10	5604 B8	5623 F3	5647 H14	6600 G9	7002 D8	7606 H8	F655 F4	F681 B2	F689 C14	F694 H15
1108 H4	1627 F4	2614 A5	2619 B5	2624 A5	2630 C3	2640 B12	3191 B4	3616 C11	3632-1 A3	3633-2 A3	3634-3 B3	3663 B3	3673 C5	3680 D11	3685 G10	4008 H4	5617 C3	5624 F3	5648 H14	6603 D13	7601 C9	7607 G10	F656 F4	F682 B2	F690 C14	F695 H15
1600 C14	2088 B3	2615 A5	2620 B5	2625 A5	2631 C5	2641 B12	3602 C11	3617 C10	3632-2 A3	3633-3 A3	3634-4 B3	3668 F9	3676 F3	3681 F10	3686 G10	4601 F10	5618 C5	5637 A13	5649 C11	6604 C13	7602 G9	7608 F9	F676 A14	F683 B2	F691 C14	F696 H15
1604 C11	2603 C8	2616 A5	2621 B5	2626 A5	2632 D4	2648 C9	3606 C12	3618 C10	3632-3 A3	3633-4 A3	3634-1 B3	3658 G7	3677 F3	3682 F10	3687 H8	4602 D10	5620 C2	5638 B13	5650 D14	6605 D14	7603 C4	F653 F4	F677 B14	F684 B3	F692 C14	
1608 A2	2612 D8	2617 A5	2622 B5	2627 F8	2633 F4	3012 C8	3614 C8	3622 A5	3632-4 A3	3634-1 B3	3659 G7	3670 G8	3678 F3	3683 G8	3688 G9	5050 B4	5622 E4	5639 B13	5651 D14	6606 G10	7604 D11	F654 F4	F678 B14	F685 C3	F693 C14	

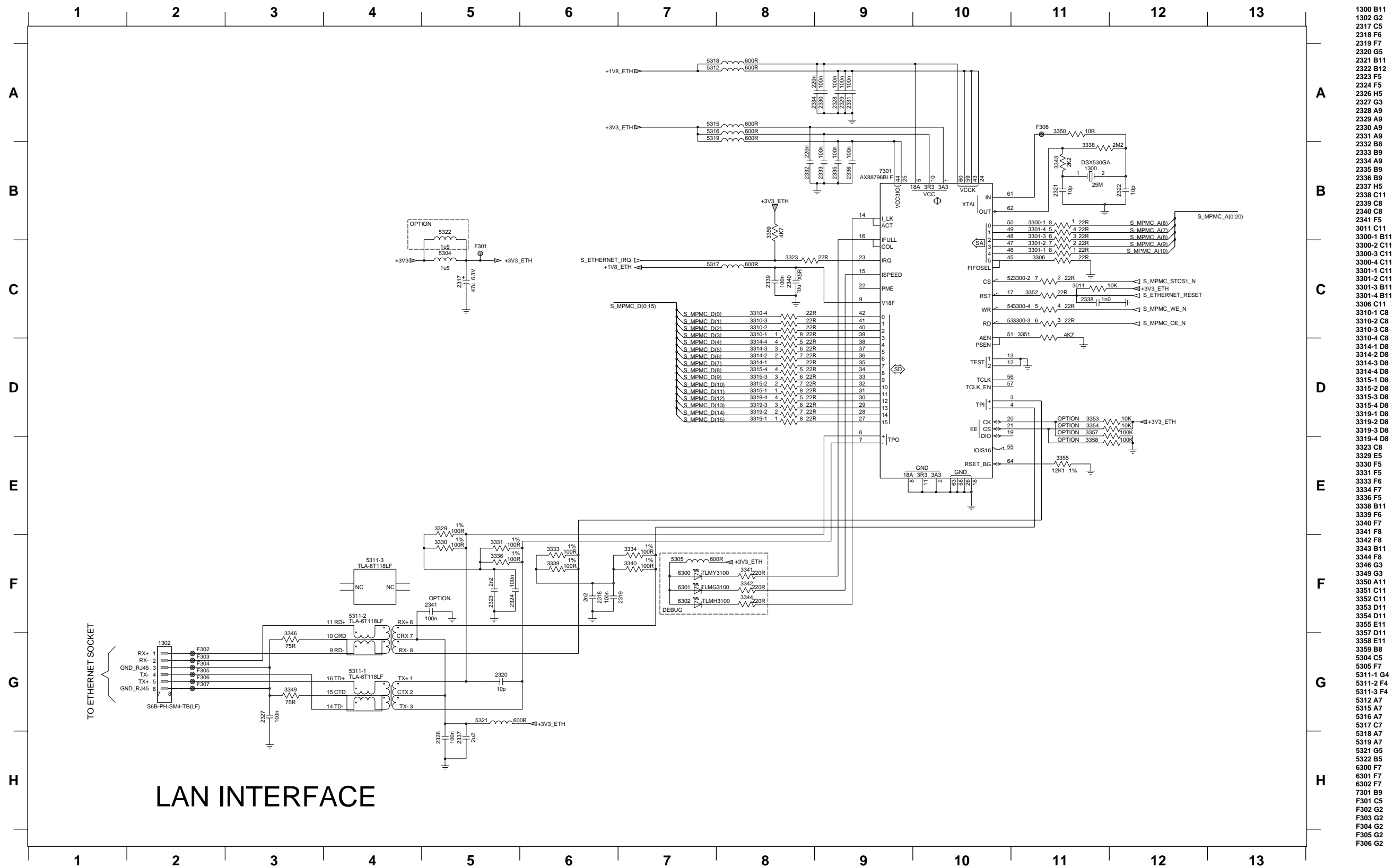


PB HasLI-08 - Circuit Digram - AF Part



1705 A8	3770 B4
1706 G13	3771 C4
2703 A4	3772 C4
2704 B4	3773 D4
2705 D8	3774 D3
2706 D10	3775 E3
2707 E7	3776 E3
2708 E9	3777 E4
2709 E13	3778 E4
2710 E10	3779 E4
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2715 F9	3784 F4
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2719 G5	3787 I3
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2721 G5	3789 I13
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2727 H7	3794 E7
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2735 H7	4709 I2
2736 H7	4711 G5
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2738 H9	4716 G13
2739 H11	4717 G13
2740 H5	5022 A7
2741 I7	514 D9
2742 H4	5145 E10
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2744 I5	517 G7
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2747 G11	5170 H1
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2749 I12	524 H1
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2757 B13	538 A5
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2760 B13	542 B13
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2763 C12	544 D4
2764 A6	545 E4
2765 B6	546 E4
2766 B7	547 E4
2767 B6	548 F5
2768 D3	5750 G1
2769 D3	5751 H1
2770 D2	6700 B3
2771 E2	7704 D13
2772 E3	7705 D9
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2774 B7	7707 G2
2775 F5	7708-1 G5
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3715 B4	7711 B4
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3717 D12	7713 A12
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3719 D12	7715 D3
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3722 E7	7702 B3
3724 F2	7704 D13
3725 F3	F755 I12
3726 G8	F762 E7
3727 F2	F763 E7
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3730 G10	F765 A8
3731 G6	F766 B8
3732 H5	F767 B8
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3744 I6	
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PB HasLI-08 - Circuit Digram - ETHERNET Part



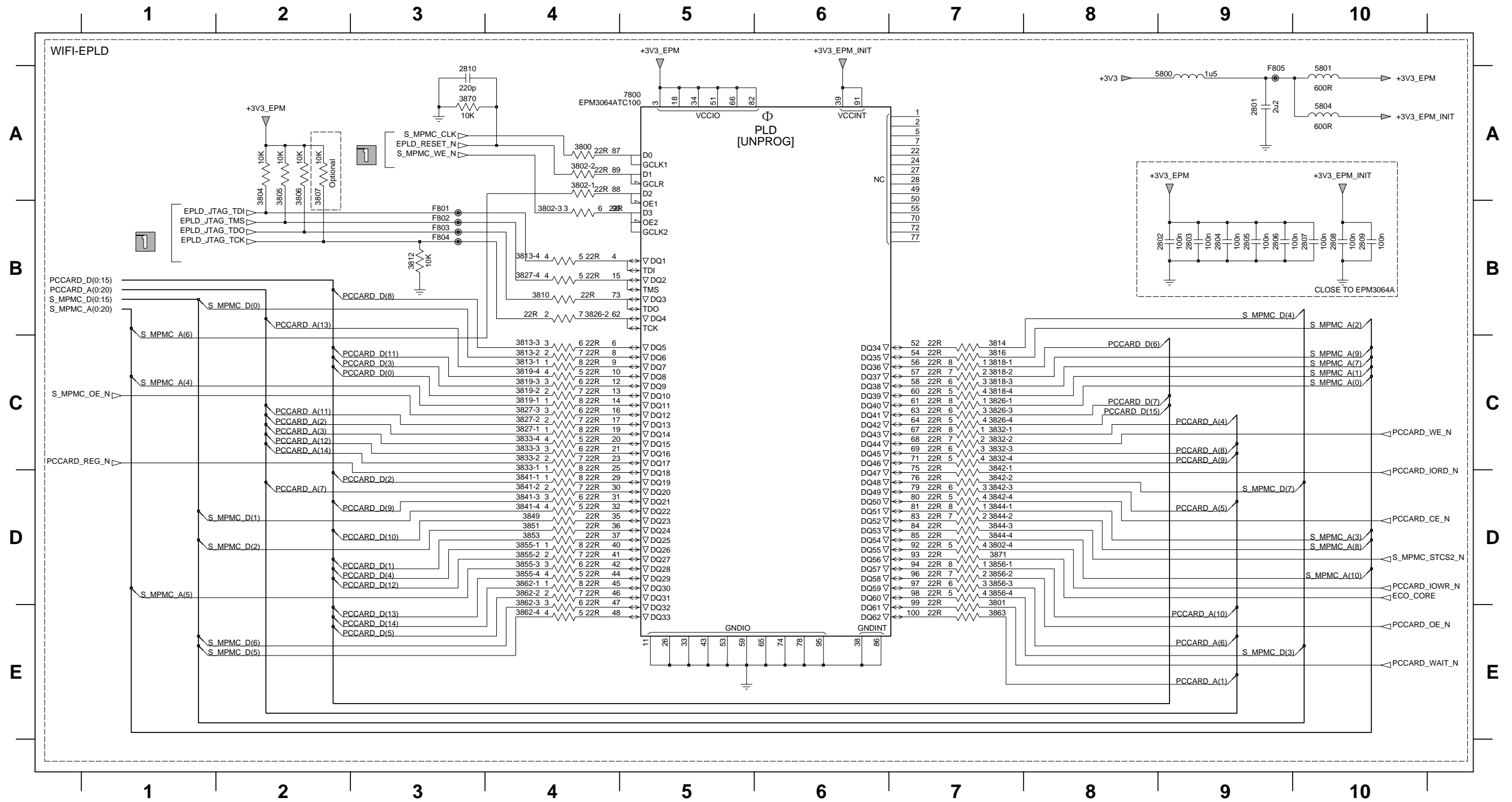
LAN INTERFACE

- 1300 B11
- 1302 G2
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- 3341 F8
- 3342 F8
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- 3344 F8
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- 3351 C11
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- 3353 D11
- 3354 D11
- 3355 E11
- 3357 D11
- 3358 E11
- 3359 B8
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- 5305 F7
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- 5311-2 F4
- 5311-3 F4
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- 5315 A7
- 5316 A7
- 5317 C7
- 5318 A7
- 5319 A7
- 5321 G5
- 5322 B5
- 6300 F7
- 6301 F7
- 6302 F7
- 7301 B9
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- F302 G2
- F303 G2
- F304 G2
- F305 G2
- F306 G2

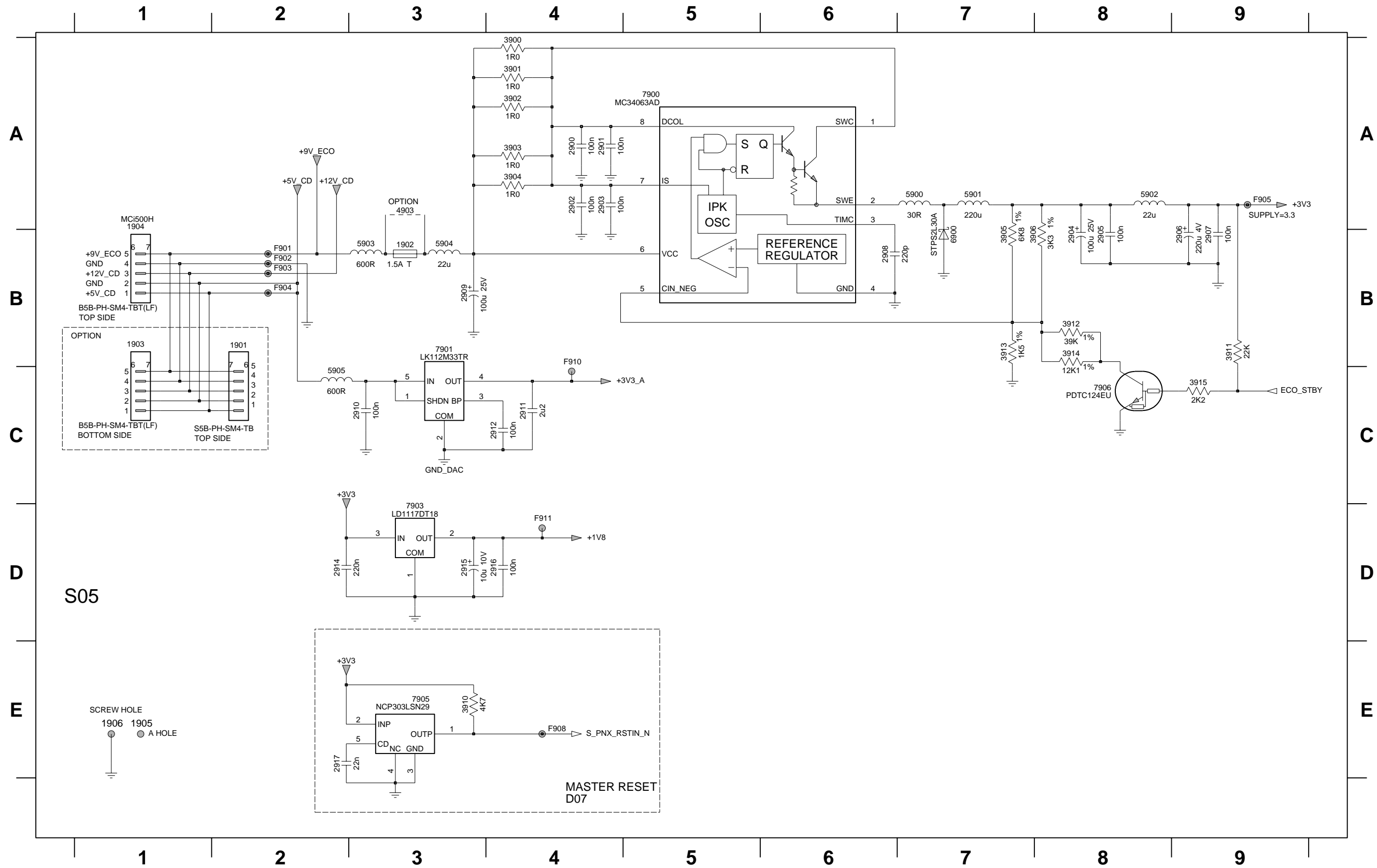
F307 G2
F308 A11

PB HasLI-08 - Circuit Digram - EPLD Part

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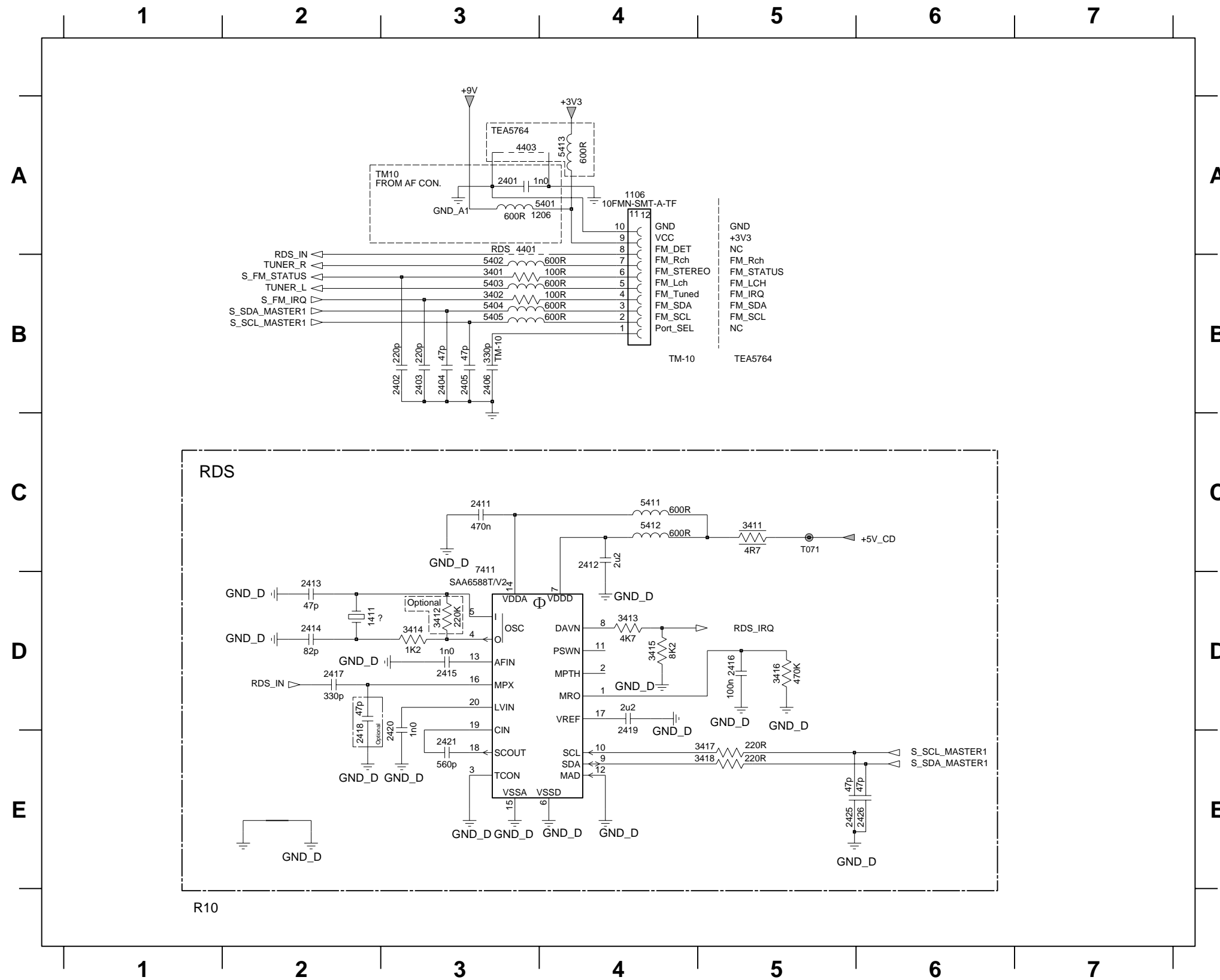


PB HasLI-08 - Circuit Diagram - SUPPLY Part



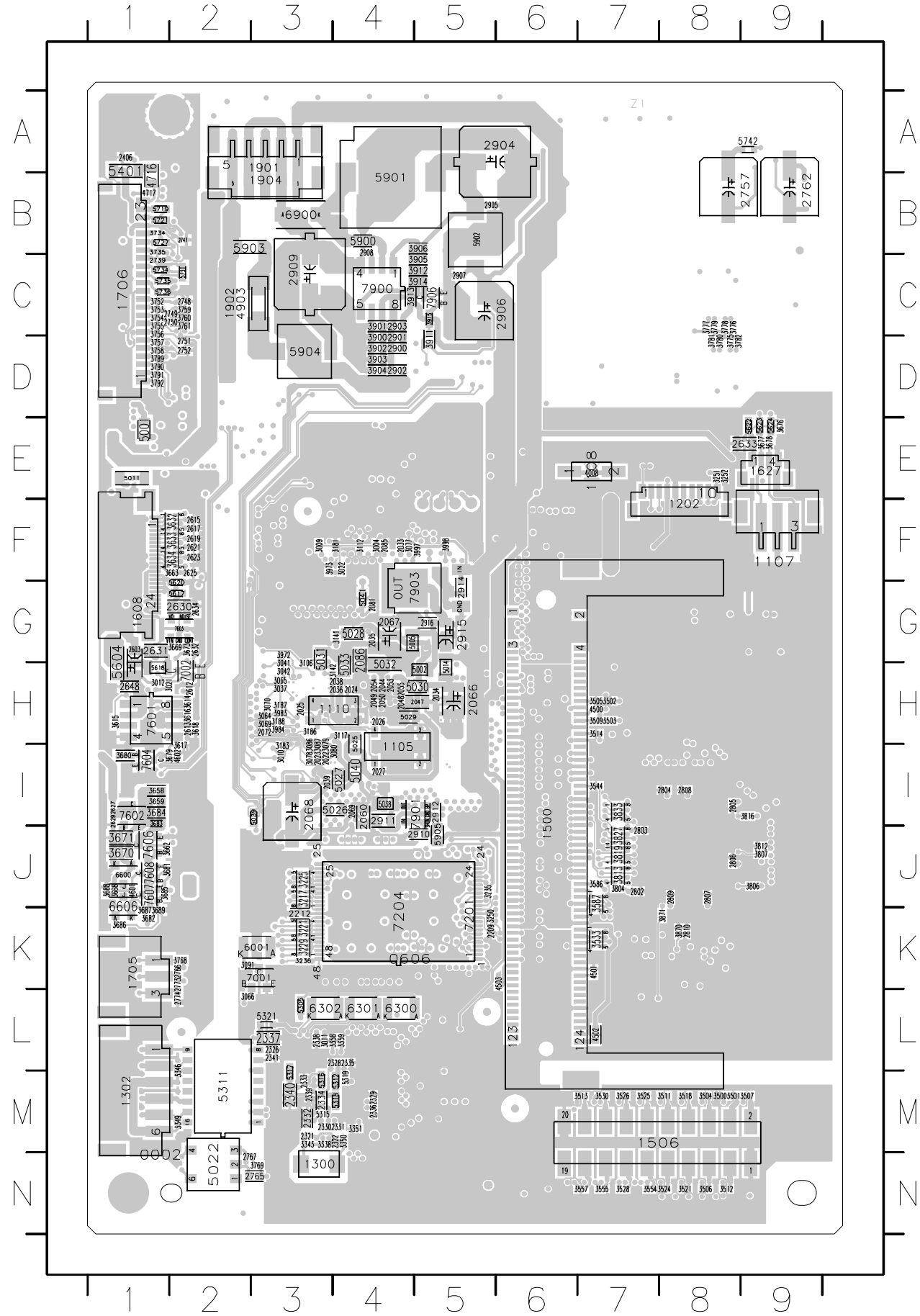
- 1901 A2
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- 2906 B9
- 2907 B9
- 2908 B6
- 2909 B3
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- 2911 C4
- 2912 C4
- 2914 D2
- 2915 D3
- 2916 D4
- 2917 E2
- 3900 A4
- 3901 A4
- 3902 A4
- 3903 A4
- 3904 A4
- 3905 B7
- 3906 B8
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- 3913 B7
- 3914 B8
- 3915 C9
- 4903 A3
- 5900 A7
- 5901 A7
- 5902 A8
- 5903 B3
- 5904 B3
- 5905 C2
- 6900 B7
- 7900 A5
- 7901 B3
- 7903 D3
- 7905 E3
- 7906 C8
- F901 B2
- F902 B2
- F903 B2
- F904 B2
- F905 A9
- F908 E4
- F910 B4
- F911 D4

PB HasLI-08 - Circuit Diagram - TUNER Part



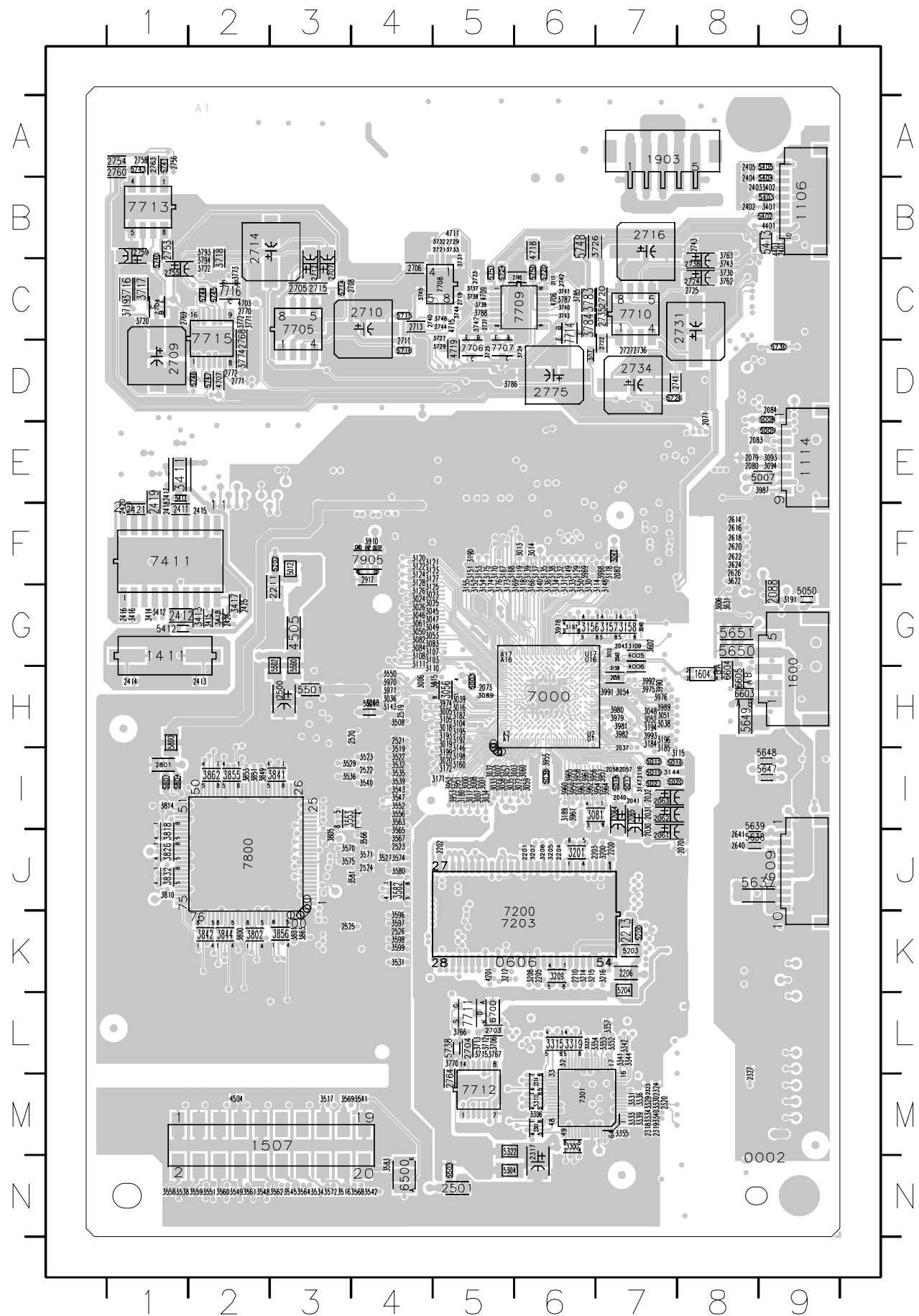
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- 2403 B3
- 2404 B3
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- 2412 C4
- 2413 D2
- 2414 D2
- 2415 D3
- 2416 D5
- 2417 D2
- 2418 E2
- 2419 D4
- 2420 E3
- 2421 E3
- 2425 E5
- 2426 E6
- 3401 B3
- 3402 B3
- 3411 C5
- 3412 D3
- 3413 D4
- 3414 D3
- 3415 D4
- 3416 D5
- 3417 E5
- 3418 E5
- 4401 A3
- 4403 A3
- 5401 A4
- 5402 B3
- 5403 B3
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- 5412 C4
- 5413 A4
- 7411 D3
- T071 C5

FORSEEN ONLY, NOT USED IN MCI500



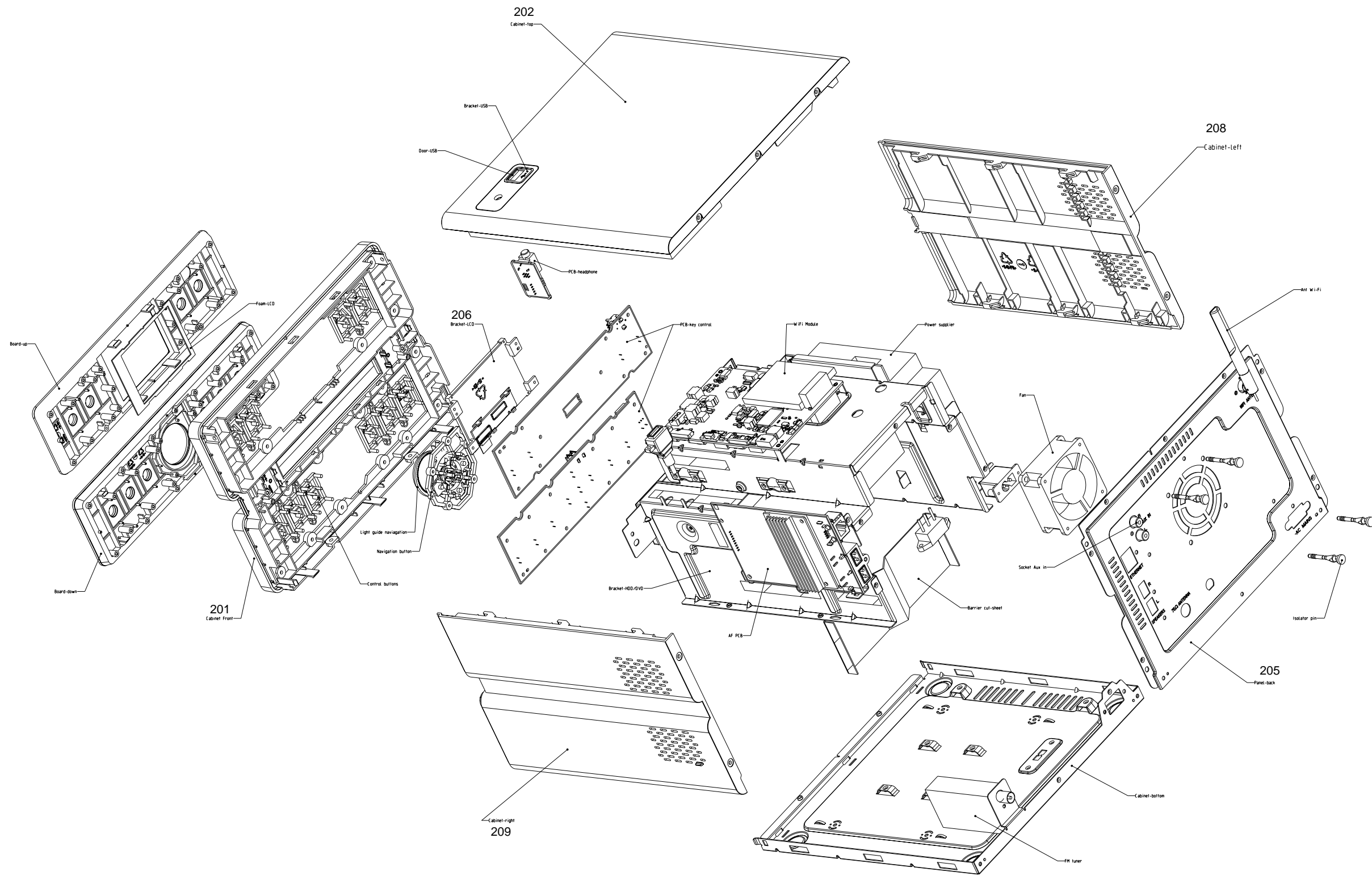
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PB HasLI-08 - Layout Digram - BOTTOM



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Explode Diagram



ACCESSORIES PARTS LIST

456	242207600687	ANT FM DIP SD-2380 B
457	314107870361	CD ROM INSTALL SW MCI500H (/05)
457	314107870301	INSTALLER-SW(CDR) WAC-3500D/12(/12)
460	313923816391	RC2023622/01
469	242207098147	MAINSCORD UK 2A5 1M5 DET 2P B(/05)
469	242207098151	MAINSCORD EUR 2A5 1M5 DET 2P B(/12)
470	314107850351	BOX SPK ASSY MCI500H/12

MISCELLANEOUS PARTS LIST

201	314107751571	CABINET FRONT ASSY MCI500H/12
202	314107751601	TOP PRE-ASSY MCI500H
205	314107120881	PANEL BACK MCI500H/12
206	314107405081	LCD BRACKET MCI500H/12
208	314107405091	CABINET-LEFT MCI500H/12
209	314107405101	CABINET-RIGHT MCI500H/12
210	314107405121	DOOR-CD-LITEON MCI500H/12(314107405131)
210	314107405131	DOOR-CD-TEAC MCI500H/12
239	314107120901	BRACKET-ETHERNET MCI500H
247	314107403851	HOLDER ANTENNA WAC3500D
1002	282203101522	FAN 12VDC 0.8W 3100RPM B
1003		MOD HasLi-08 MCI500H/12
1000	314107050481	HDD 3.5" 160GB+SW V1.0 MCI500H
1001	314107802951	PBAS HasLi-08 (TFT) MCI500H/12
1002	282206502109	WMOD WIFIG MPC1 PM101_US B
1004	314107850341	MODULE SMPS MCI500H/05
1005	242254200049	TUN FM ENG07826QF EUR B
1006	314107050441	DVDROM 16D2P+FW EPT4 WAC3500D
1007	272217100648	LCD MODULE YB-TG240320C16D Y
1008	242207600717	ANT WIFI 2450MHZ 50R Y
1009	242254901803	ANT WIFI WAS7500 B
1010	314107803001	PBAS 4 - AF/AMP MCI500H
1011	314107803011	PBAS 3 - LCD Interface MCI500H
1020	314107803021	PBAS 7 - Headphone MCI500H
1021	314107803031	PBAS 8 - AUX in MCI500H
1022	314107803041	PBAS 9 - Keys & RC MCI500H
1023	314107803051	PBAS 6 - Keys MCI500H
8001	314107022061	FFC 24P/280/24P 0.5MM AD
8003	314107021631	FFC 10P/430/10P BD 1.25mm
8005	314107022011	FFC FOIL 23P/280/23P 1MM BD
8006	314107021131	FFC FOIL 09P/220/09P AD 1MMP
8007	314107021991	CBLE 5P PH/130/USB-A (REC)
8009	313911036061	FFC FOIL 08P/100/08P BD 1MMP

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