

Service  
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# Service Manual



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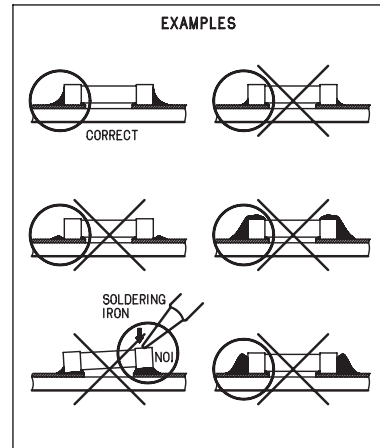
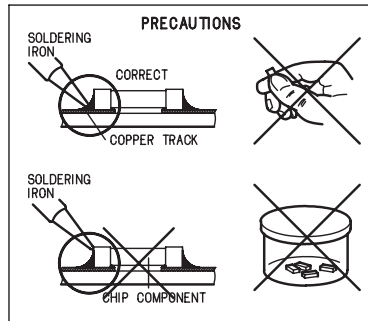
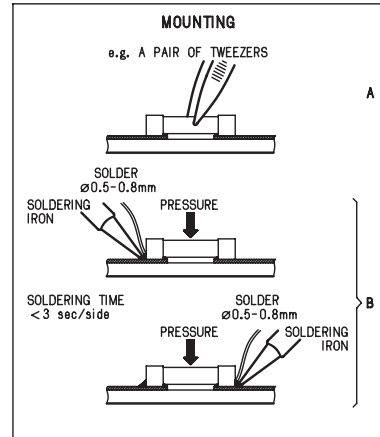
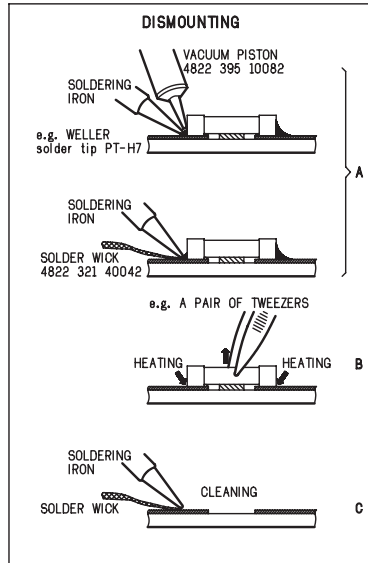
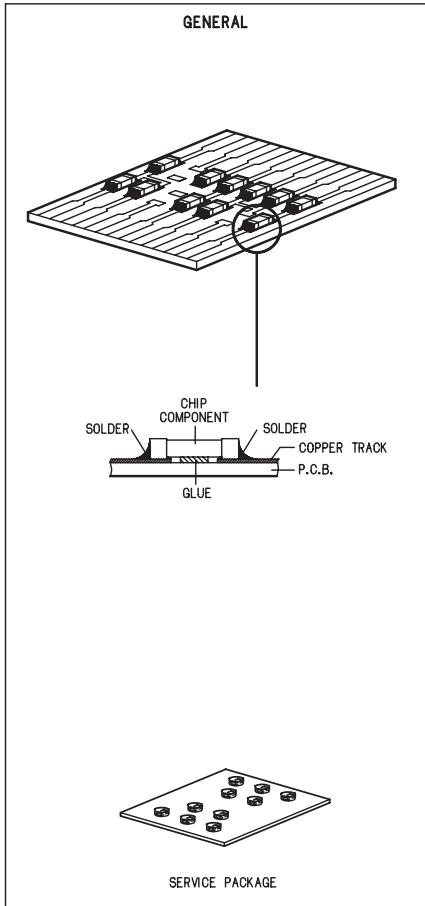
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# HANDLING CHIP COMPONENTS



**(GB) WARNING**

All ICs and many other semiconductors 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 wristband with resistance. Keep components and tools at this potential.

**ESD**



**(NL) WAARSCHUWING**

Alle IC's en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD). Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen. Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat. Houd componenten en hulpmiddelen ook op ditzelfde potentiaal.

**(F) ATTENTION**

Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques (ESD). Leur longévité pourrait être considérablement écourtée par le fait qu'aucune précaution n'est prise à leur manipulation. Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfilez le bracelet seré d'une résistance de sécurité. Veiller à ce que les composants ainsi que les outils que l'on utilise soient également à ce potentiel.

**(D) WARNUNG**

Alle ICs und viele andere Halbleiter sind empfindlich gegenüber elektrostatischen Entladungen (ESD). Unvorsichtige Behandlung im Reparaturfall kann die Lebensdauer drastisch reduzieren. Sorgen Sie dafür, daß Sie im Reparaturfall über ein Pulsarmband mit Widerstand mit dem Massepotential des Gerätes verbunden sind. Halten Sie Bauteile und Hilfsmittel ebenfalls auf diesem Potential.

**(I) AVVERTIMENTO**

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD). La loro longevità potrebbe essere fortemente ridotta in caso di non osservazione della più grande cautela alla loro manipolazione. Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell'apparecchio tramite un bracciale a resistenza. Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

**(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

**SAFETY**



**(F)**

Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées. Les composants de sécurité sont marqués

**(D)**

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Gerätes darf nicht verändert werden. Für Reparaturen sind Originalersatzteile zu verwenden. Sicherheitsbauteile sind durch das Symbol markiert.

**(NL)**

Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast. De Veiligheidsonderdelen zijn aangeduid met het symbool

**(I)**

Le norme di sicurezza estigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambio identici a quelli specificati. Componenti di sicurezza sono marcati con

**(GB) DANGER:** Invisible laser radiation when open. AVOID DIRECT EXPOSURE TO BEAM.



**(S) Varning!** Osynlig laserstråling när apparaten är öppnad och spårren är urkopplad. Betrakta ej strålen.

**(DK) Advarsel!** Usynlig laserstråling ved åbning når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

**(FIN) Varoitus!** Avatussa laitteessa ja suojalukituksen ohitettaessa olet alttiina näkyvämmätön laserisäteilylle. Älä katso säteeseen!

**(GB)** After servicing and before returning the set to customer perform a leakage current measurement test from all exposed metal parts to earth ground, to assure no shock hazard exists. The leakage current must not exceed 0.5mA.

**(F)** "Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agréés, seuls habilités à réparer votre appareil en panne".

## 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:



### Example S/N:



Bottom line of typeplate gives a 14-digit S/N. Digit 5&6 is the year, digit 7&8 is the week number, so in this case 2005 wk12

So from 0501 onwards = from 1 Jan 2005 onwards

**Important note:** In fact also products of year 2004 must be treated in this way as long as you avoid mixing solder-alloys (lead-ed/ lead-free). So best to always use SAC305 and the higher temperatures belong to this.

Due to lead-free technology some rules have to be respected by the workshop during a repair:

- Use only lead-free solder alloy Philips SAC305 with order code 0622 149 00106. If lead-free solder-paste is required, please contact the manufacturer of your solder-equipment. In general use of solder-paste within workshops should be avoided because paste is not easy to store and to handle.
- Use only adequate solder tools applicable for lead-free solder alloy. The solder tool must be able
  - To reach at least a solder-temperature of 400°C,
  - To stabilize the adjusted temperature at the solder-tip
  - To exchange solder-tips for different applications.
- Adjust your solder tool so that a temperature around 360°C – 380°C is reached and stabilized at the solder joint. Heating-time of the solder-joint should not exceed ~ 4 sec. Avoid temperatures above 400°C otherwise wear-out of tips will rise drastically and flux-fluid will be destroyed. To avoid wear-out of tips switch off un-used equipment, or reduce heat.
- Mix of lead-free solder alloy / parts with lead-ed solder alloy / parts is possible but PHILIPS recommends strongly to avoid mixed solder alloy types (lead-ed and lead-free).  
If one cannot avoid or does not know whether product is lead-free, clean carefully the solder-joint from old solder alloy and re-solder with new solder alloy (SAC305).
- Use only original spare-parts listed in the Service-Manuals. Not listed standard-material (commodities) has to be purchased at external companies.
- **Special information for BGA-ICs:**
  - always use the 12nc-recognizable soldering temperature profile of the specific BGA (for de-soldering always use the lead-free temperature profile, in case of doubt)
  - lead free BGA-ICs will be delivered in so-called 'dry-packaging' (sealed pack including a silica gel pack) to protect the IC against moisture. After opening, dependent of MSL-level seen on indicator-label in the bag, the BGA-IC possibly still has to be baked dry. (MSL=Moisture Sensitivity Level). This will be communicated via AYS-website. Do not re-use BGAs at all.
- For sets produced before 1.1.2005 (except products of 2004), containing lead-ed solder-alloy and components, all needed spare-parts will be available till the end of the service-period. For repair of such sets nothing changes.
- On our website [www.atyourservice.ce.Philips.com](http://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

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.

## TECHNICAL SPECIFICATIONS

### AMPLIFIER SECTION

Output power ..... 180 W PMPO  
 Frequency Response .... 125 Hz - 8 kHz /  $\pm 4$  dB  
 Signal-to-Noise Ratio ... >40dB (VN-WEIGHED)  
 Output Sensitivity  
 Line Out ..... 450 mV – 550 mV

### TUNER SECTION

Tuning Range .....  
 ..... FM 87.5 (+0/-0.3)– 108(+0.5/-0) MHz  
 ..... MW 526.5(+0/-20) – 1606.5 kHz (+50/-0)  
 Signal-to-Noise Ratio ..... FM  $\geq 50$  dB  
 ..... MW  $\geq 40$  dB

### TAPE SECTION

Frequency Response  
 Normal tape ..... 125 Hz - 8 kHz /  $\pm 4$  dB  
 Signal-to-Noise Ratio  
 Normal tape .....  $\geq 45$  dB

### DVD SECTION

Laser Type ..... Semiconductor  
 Video Decoding ..... MPEG-2 / MPEG-1  
 Video DAC ..... 10 Bits  
 Signal System ..... PAL / NTSC  
 Video Format ..... 4:3 / 16:9  
 Video S/N ..... 56 dB (minimum)  
 Frequency Response ..... 100Hz - 1 kHz  $\pm 3$ dB

## SERVICE TOOLS

**TORX T10** screwdriver with shaftlength 150mm.....4822 395 50423  
**TORX screwdriver set** SBC 163.....4822 295 50145  
**Audio signal disc** SBC 429.....4822 397 30184  
**Playability test disc** SBC 444.....4822 397 30245  
**Test disc 5** (disc without errors) +  
**Test disc 5A** (disc with dropout errors, black spots and fingerprints)  
 SBC 426/426A.....4822 397 30096  
**Burn in test disc** (65 min. 1kHz signal at -30 dB level without “pause”).....4822 397 30155  
**Universal test cassette** Fe SBC 420.....4822 397 30071

## AVAILABLE ESD PROTECTION EQUIPMENT

**anti-static table mat** large 1200x650x1.25mm 4822 466 10953  
 small 600x650x1.25mm 4822 466 10958  
**anti-static wristband** 4822 395 10223  
**connection box** (3 press stud connections, 1M $\Omega$ ) 4822 320 11307  
**extendible cable** (2m, 2M $\Omega$ , to connect wristband to connection box) 4822 320 11305  
**connecting cable** (3m, 2M $\Omega$ , to connect table mat to connection box) 4822 320 11306  
**earth cable** (1M $\Omega$ , to connect any product to mat or to connection box) 4822 320 11308  
**KIT ESD3** (combining all 6 prior products - small table mat) 4822 310 10671  
**wristband tester** 4822 344 13999

### MAIN UNIT

Power Supply **-/98** ..... 110 - 127 / 220 - 240 V  
 ..... 50/60HZ Switchable  
 Power Consumption  
 Active ..... 15 W  
 Dimensions (w x d x h)400x 242.5 x 169 (mm)  
 Weight ..... 3.9 kg  
 Packaging Dimensions (w x d x h) .....  
 ..... 458x280x210(mm)  
 Gross weight ..... 3.06 kg

### SPEAKERS

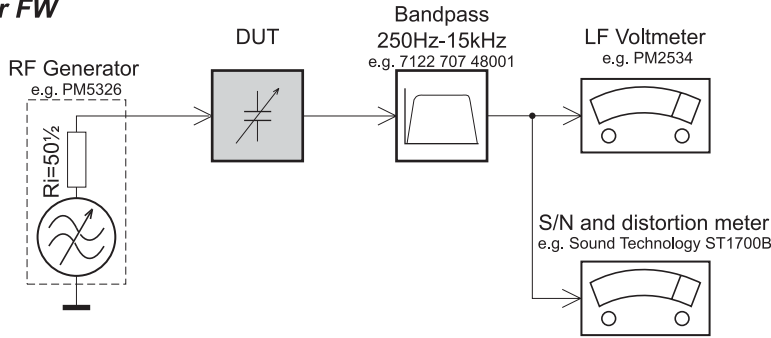
Impedance ..... 8  $\Omega$   
 Speaker drivers ..... full range 4" w/ shield,

*Specifications subject to change without prior notice*



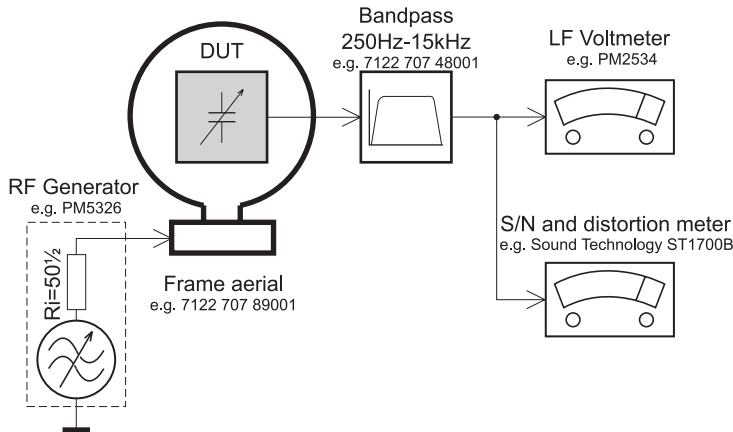
# SERVICE MEASUREMENT

## Tuner FW



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

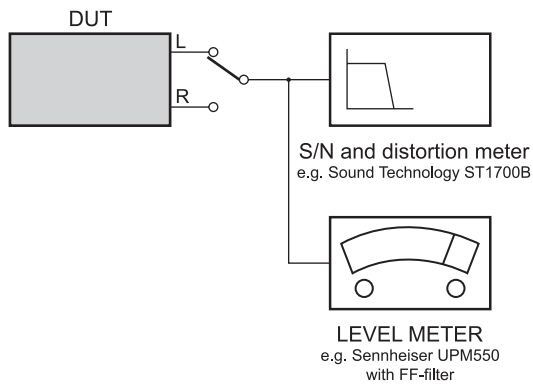
## Tuner AM (MW,LW)



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 250kHz) to eliminate hum (50Hz, 100Hz).

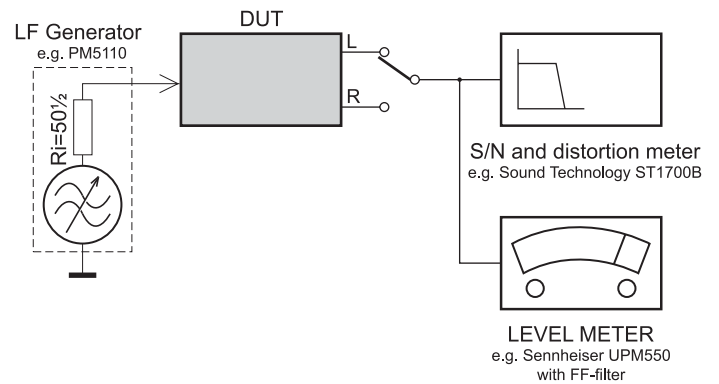
## CD

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



## RECORDER

Use Universal Test Cassette Fe SBC420 4822 397 30071



# CONNECTION AND CONTROLS

## Functional Overview

### Basic function IMPORTANT!

Before you operate the system, complete the preparation procedures.

#### Switching the system on

- Connect the mains lead to AC MAINS~ socket and the wall socket.  
The system will switch to the last selected source.

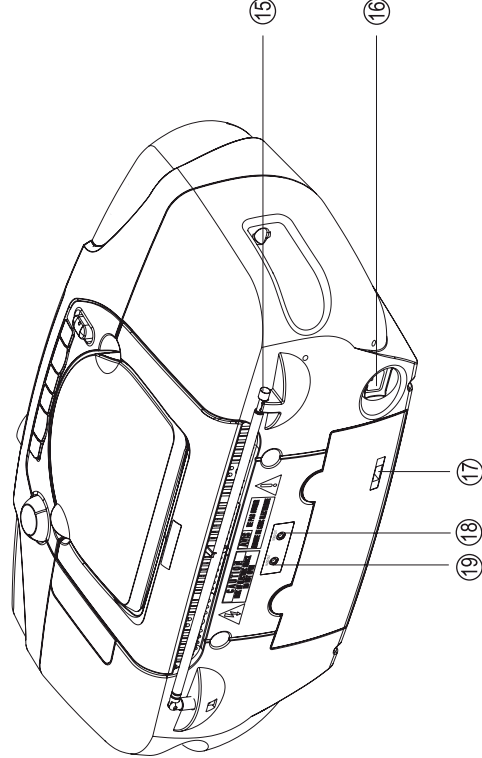
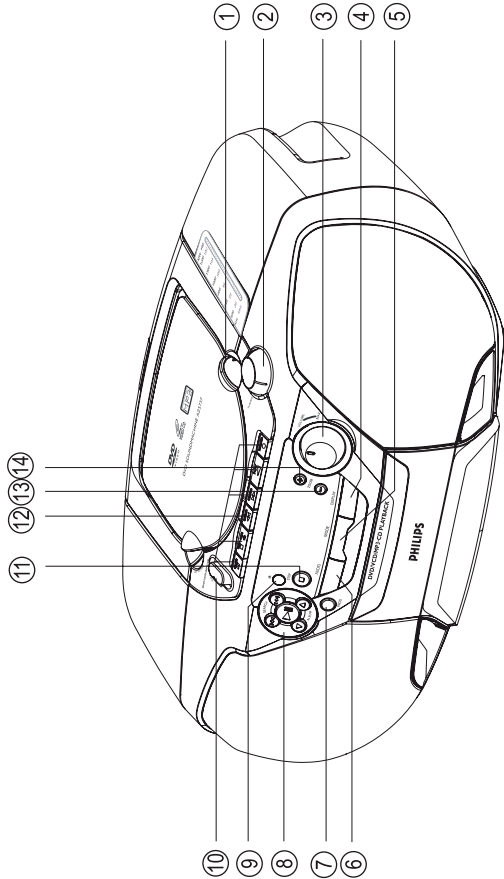
- Push the source switch to select DVD/VCD/MP3/CD, FM, MW, TAPE source.  
The system will switch to the selected source.

#### Power-saving automatic standby

- As a power-saving feature, the system will automatical switch to standby mode if you do not press any buttons within 30 minutes after a disc has stopped playing.

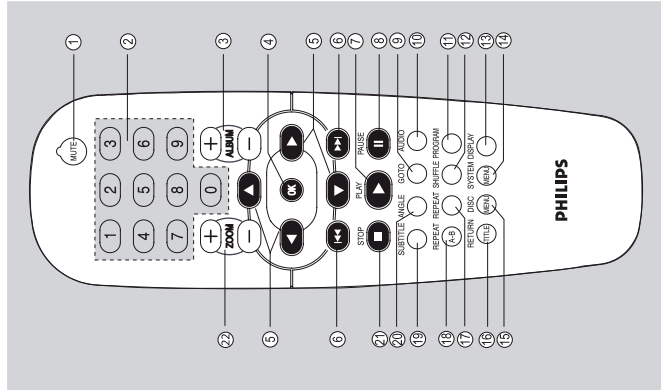
### Controls on the system

- LIFT TO OPEN**  
to open the disc cover
- TUNING**  
to select waveandFM or MW
- VOLUME**  
to adjust master volume level.
- DISPLAY**  
to display disc information during disc playback  
to select the slide show mode in playing picture disc mode
- MODE**  
to select the repeat function in disc mode
- AUDIO**  
to select preferred language for audio  
to select an audio mode when playing a SVCD/VCD disc with different channels recorded
- PROG**  
in disc mode, to program favorite tracks
- SEARCH** ◀◀/▶▶  
in disc mode, press to skip to the previous/next chapter/track.  
in disc mode, press and hold to fast reverse/forward the disc
- PLAY/PAUSE** ▶ II  
to start or interrupt disc playback  
to resume playback from last stop point
- ALBUM** ▲ / ▼  
to select previous/hex album in MP3 stop mode (with MENU ON)
- iR**  
point the remote control towards this sensor
- SOURCE**  
to select sound source for functions: DVD/VCD/MP3/CD, FM, MW, TAPE
- STOP** ■  
to stop playback or to clear a programme
- Cassette recorder keys**  
**PAUSE** II  
to pause playback or recording  
**STOP** ■ / **OPEN** ▲  
to stop the tape  
to open the cassette compartment
- SEARCH** ◀◀ / ▶▶  
to fast winds/rewinds tape
- PLAY** ◀  
to start playback
- RECORD** ●  
to start recording
- ZOOM** +/-  
to reduce or enlarge picture in playing disc mode
- Telescopic aerial**  
to improve FM reception
- AC MAINS~**  
Socket for power cord
- Voltage selector**  
adjusts to match the local voltage 110/220V before plugging in the set
- Video out**  
connects video input jack on the TV
- Audio out**  
connects audio input jack on the TV



## Functional Overview

### Remote control



#### Notes:

- 1 First, select the disc (DVD/VCD/MP3/CD) source
- 2 Then select the desired function (◀◀, ▶▶ or ▶ for example).

- MUTE**
  - disables/enables sound output
- Numeric Keypad (0-9)**
  - to enter a track/title number of the disc.
- ALBUM +/-**
  - to select previous/next album in MP3 stop mode (with MENU ON)
- OK**
  - to exit or confirm the selection.
- ▲ / ▼ / ◀ / ▶**
  - to select movement direction in disc contents menu/system menu bar
  - in JPEG disc mode, to rotate the picture for viewing.
- in DVD or MP3 disc mode, press ◀ / ▶ to fast reverse/forward the disc

## Troubleshooting

### WARNING

Under no circumstances should you try to repair the system yourself, as this will invalidate the warranty. Do not open the system as there is a risk of electric shock.

If a fault occurs, first check the points listed below before taking the system for repair. If you are unable to remedy a problem by following these hints, consult your dealer or service center.

Problem	Solution
<b>No power.</b>	<ul style="list-style-type: none"> <li>Check if the AC power cord is properly connected.</li> <li>Insert a disc.</li> <li>Check if the disc is inserted upside down.</li> <li>Wait until the moisture condensed at the lens has cleared.</li> <li>Replace or clean the disc, see "Maintenance".</li> <li>Use a readable disc or correctly recorded format MP3-CD.</li> </ul>
<b>"no disc" is displayed.</b>	<ul style="list-style-type: none"> <li>Check if the disc is inserted upside down.</li> <li>Wait until the moisture condensed at the lens has cleared.</li> <li>Replace or clean the disc, see "Maintenance".</li> <li>Use a readable disc or correctly recorded format MP3-CD.</li> </ul>
<b>No picture on TV screen.</b>	<ul style="list-style-type: none"> <li>Select the appropriate video input mode on the TV set.</li> <li>Check if the TV set is switched on.</li> <li>Check the video connection.</li> <li>Check if the system is securely connected.</li> </ul>
<b>No colour on TV</b>	<ul style="list-style-type: none"> <li>TV has a colour system standard. If the disc's or DVD system's colour system is different than your TV's colour system, the picture may be distorted or colourless.</li> <li>Change the system to the respective PAL or NTSC setting.</li> </ul>
<b>Distorted or poor picture.</b>	<ul style="list-style-type: none"> <li>Sometimes a slight picture distortion may appear. This is not a malfunction.</li> <li>Clean the disc.</li> </ul>
<b>The aspect ratio of the screen cannot be changed even though you have set the TV shape.</b>	<ul style="list-style-type: none"> <li>The aspect ratio is fixed on the DVD disc.</li> <li>The aspect ratio may not be changed for some TV systems.</li> </ul>
<b>The DVD player does not start playback.</b>	<ul style="list-style-type: none"> <li>Check the source switch on the disc mode.</li> <li>Insert a readable disc.</li> <li>Check the disc type, color system and region code.</li> <li>Clean the disc.</li> <li>Place the disc with the playback side down.</li> <li>Press SYSTEM MENU to turn off the setup menu.</li> <li>Cancel the parental control rating function or change the rating level.</li> <li>Moisture has condensed inside the system.</li> <li>Remove the disc and leave the system turned on for about an hour.</li> </ul>
<b>The system does not respond when the buttons are pressed.</b>	<ul style="list-style-type: none"> <li>Confirm the source switch location. Some buttons/knobs/keys are available only in the related mode (for example cassette recorder</li> </ul>

- ◀◀ / ▶▶**
  - in disc mode, press to skip to the previous/next chapter/track.
- ▶**
  - to start the disc playback
- PAUSE II**
  - to interrupt disc playback or resume playback from last stop point.
- GOTO**
  - to go direct to desired title, chapter or time.
- AUDIO**
  - for SVCD/VCD, sets the audio mode(left vocal, right vocal, mono left, mono right or stereo) for DVD, selects an audio language
- PROGRAM**
  - in disc mode, to program favorite tracks.
- SHUFFLE**
  - to playback in random mode.
- DISPLAY (OSD)**
  - to display disc information during disc playback
  - to select the slide show mode in playing picture disc mode
- SYSTEM MENU (disc mode only)**
  - to enter or exit the system menu bar.
- DISC MENU (disc mode only)**
  - to enter or exit the disc contents menu
- RETURN TITLE**
  - to return to main page for VCD
  - to return to title menu for DVD
- REPEAT**
  - to select variations of continuous playback
- REPEAT A-B**
  - to repeat a specific section on a disc
- SUBTITLE**
  - to select desired subtitle
- ANGLE**
  - to select the angles cyclically
- STOP ■**
  - to stop playing the disc.
- ZOOM +/-**
  - to reduce or enlarge picture in playing disc mode

## Troubleshooting

- keys is available only in TAPE mode.),
- Disconnect the power plug from the jack, and insert again.

<p><b>The language subtitle cannot be changed when playing a DVD.</b></p>	<ul style="list-style-type: none"> <li>– Multi-language subtitle is not recorded on the DVD.</li> <li>– Changing the language for subtitle is prohibited on the DVD.</li> </ul>
<p><b>Sound cannot be heard or is of poor quality</b></p>	<ul style="list-style-type: none"> <li>– Adjust the volume.</li> <li>– If the system is in pause, slow motion or fast forward/reverse mode, press ►   to resume the normal play mode.</li> <li>– Make sure the MP3-CD was recorded within 32-256 kbps bit rate with sampling frequencies at 48 kHz, 44.1 kHz or 32 kHz.</li> </ul>
<p><b>Poor radio reception.</b></p>	<ul style="list-style-type: none"> <li>– If the signal is too weak, adjust the antenna for better reception.</li> <li>– Increase the distance between the System and your TV set or VCR.</li> </ul>
<p><b>Recording or playback cannot be made</b></p>	<ul style="list-style-type: none"> <li>– Clean deck parts; see "Maintenance".</li> <li>– Use only NORMAL tape.</li> <li>– Apply a piece of adhesive tape over the missing tab space.</li> </ul>
<p><b>The tape deck door cannot open</b></p>	<ul style="list-style-type: none"> <li>– Remove and reconnect the AC power plug and switch on the system again.</li> </ul>
<p><b>The remote control does not function.</b></p>	<ul style="list-style-type: none"> <li>– The remote control is available in disc mode only.</li> <li>– Point the remote control at the remote control sensor of the unit.</li> <li>– Reduce the distance to the player.</li> <li>– Remove any possible obstacles.</li> <li>– Replace the batteries with new ones.</li> <li>– Check that the batteries are loaded correctly.</li> </ul>



## DISASSEMBLY INSTRUCTIONS

### *Dismantling of the Front Panel & Control board Assembly*

- 1) Loosen 4 screws at back panel "A" & "B" and 2 screws at bottom side "C" to remove the front panel assembly as shown in figure 1, 2 & 3.

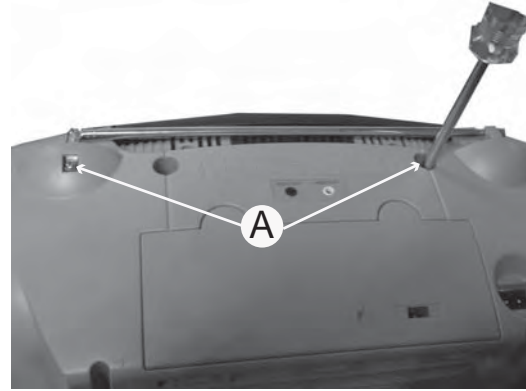


Figure 1

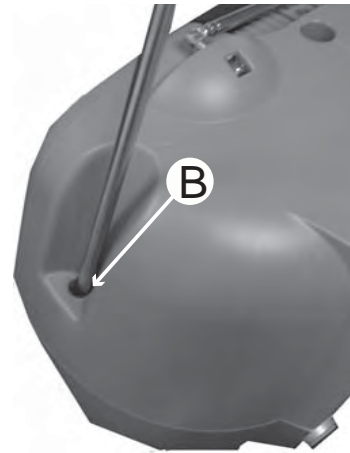


Figure 2

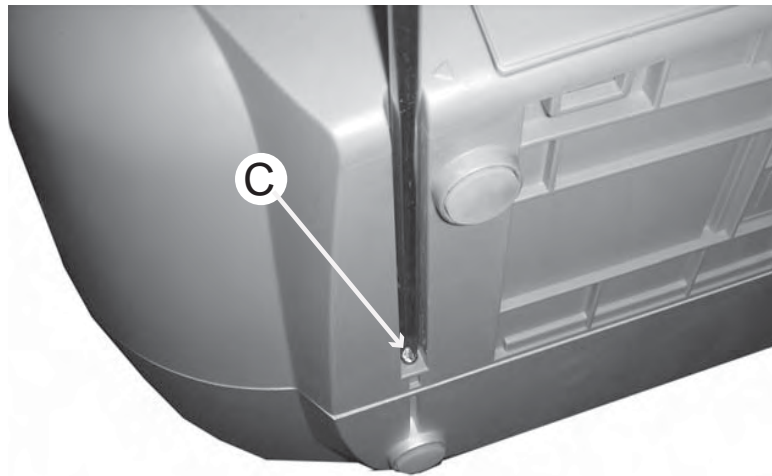


Figure 3

- 2) Lift up the tuning button with a sharp tool as shown in figure 4.



Figure 4

- 3) Press the "Open/Close" button to open the DVD loader door as shown in figure 5.



Figure 5

- 4) Loosen 4 screws "D" in figure 6 and press the bracket support in figure 7 to remove the control board assembly.  
 - 2 screws each on the left & right side  
 - each bracket support on the left & right side

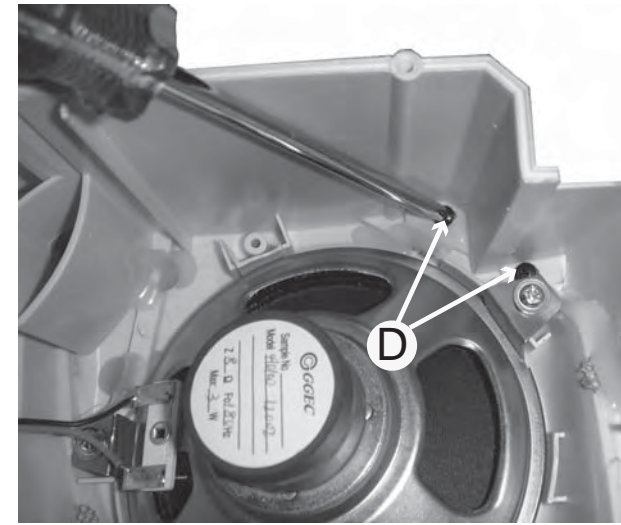


Figure 6

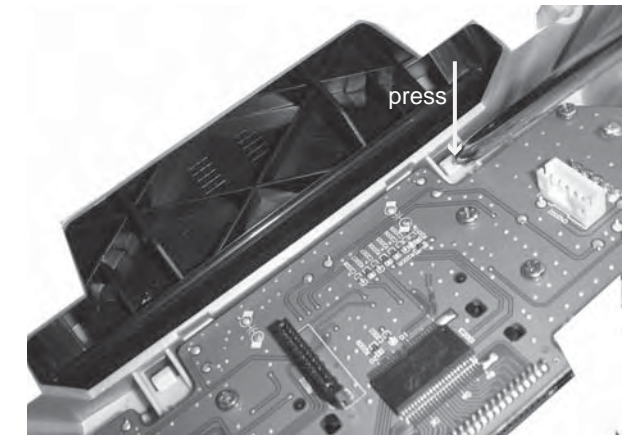


Figure 7

- 5) Loosen 8 screws "E" as shown in figure 8 to remove the control board assembly.

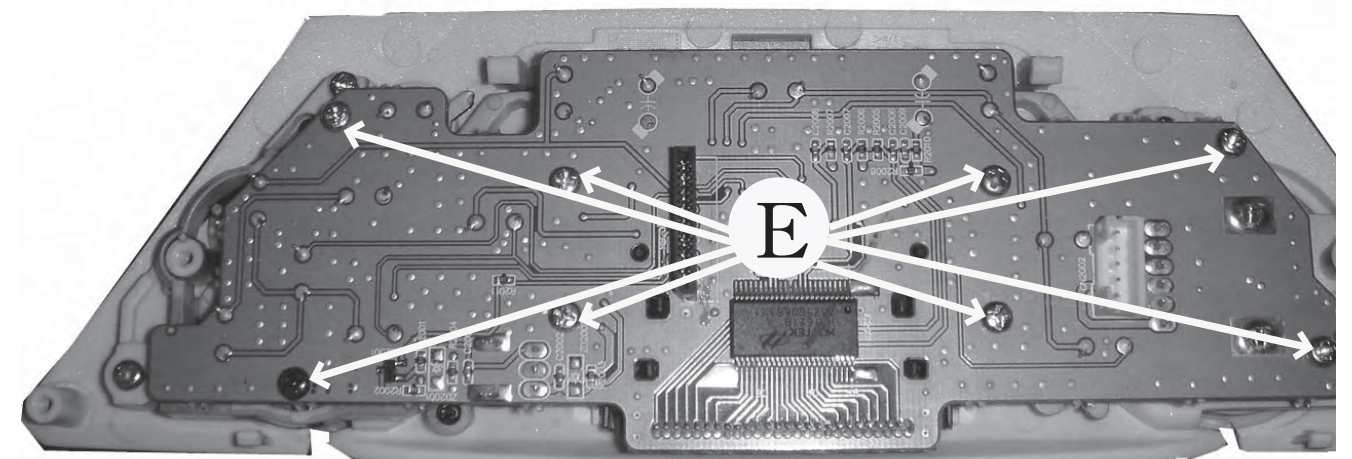


Figure 8



**Dismantling of the Tuner Board**

- 1) Loosen 1 screw " F " which location close to tuning button as shown in figure 9 .
- 2) Loosen 1 screw " G " inside the back panel as shown in figure 10.

- 3) Loosen 1 screw "H" ground wire inside back panel as shown in figure 11.
- 4) Loosen 2 screws "I" at tuner board assembly as shown in figure 12.



Figure 9

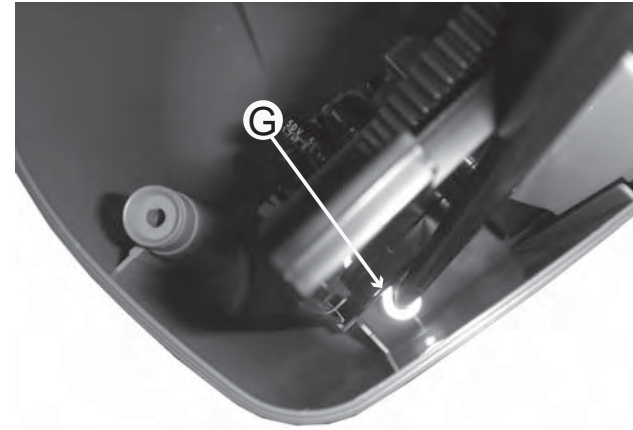


Figure 10



Figure 11

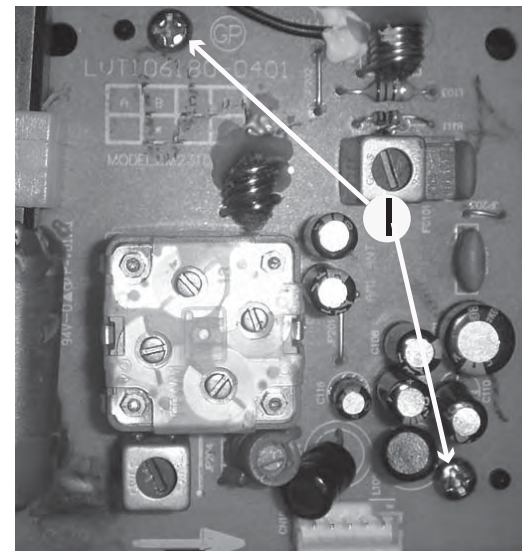


Figure 12

**Dismantling of the Tape Deck & Tape Board**

- 1) Loosen 2 screw " K " and remove the support sheet as shown in figure 13.
- 2) Loosen 4 screw " J " at tape deck as shown in figure 14.
- 3) Loosen 1 screw " L " to remove the tape board assembly as shown in figure 15.

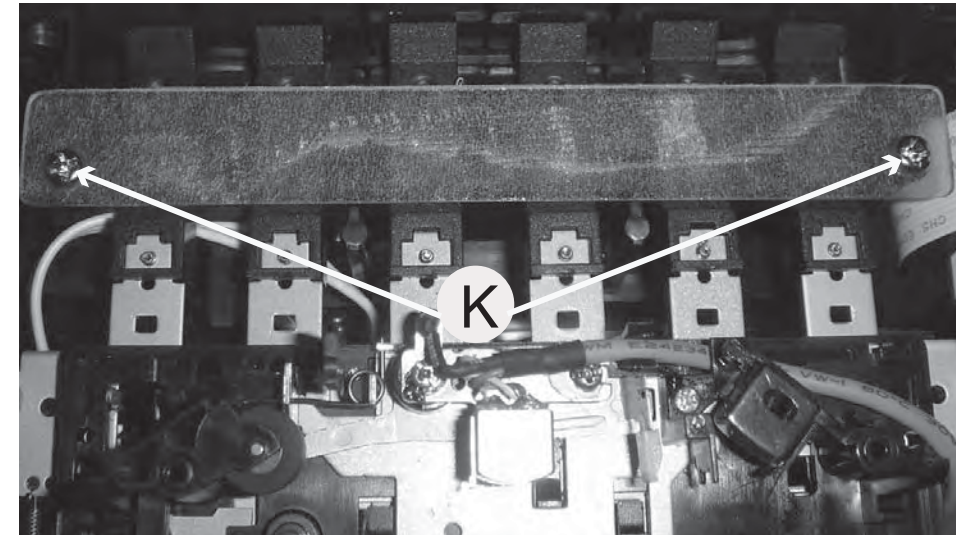


Figure 13

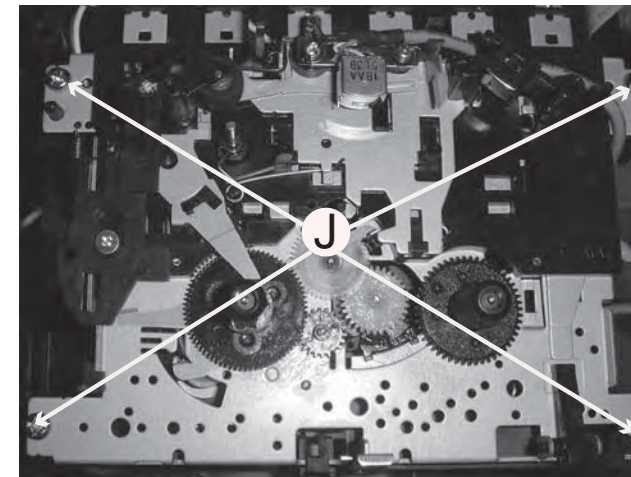


Figure 14

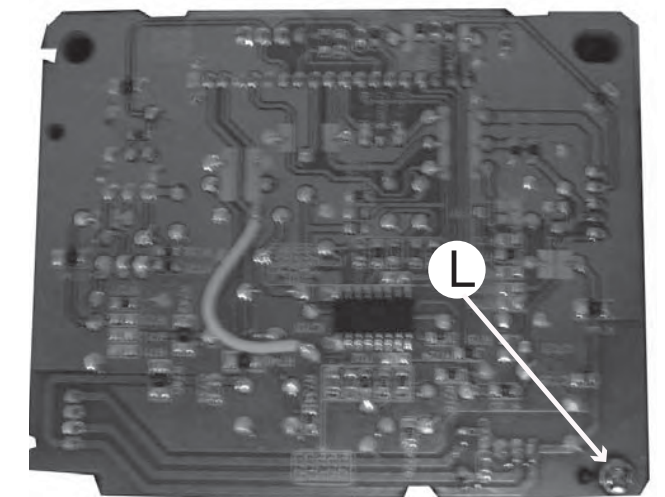


Figure 15

**SOFTWARE VERSION CHECKING AND UPGRADING****1) System Reset**

- a) Press "SYSTEM" button on R/C. TV show "SETUP"
- b) Select the menu using the "▼" and "▶" button on R/C
- c) Go feature setup page to do system reset

**2) Region Code Change**

After replacement / repair of the Main board, the customer setting and the region code may lost. Changing the Region code will put the player back in the state which it has left the factory.

Hence in total, reprogramming will be done by way of the remote control. It should run as below :-

- a) Put the player in stop mode. No disc loaded.
- b) Press the following key on remote control:

For AZ5737/98 (LATAM) :  
<STOP> <734466> < ▼ > <OK>

\* After the Region Code is changed it is necessary to reset the system so that the new Region Code will be fully effective. All customer setting will be lost.

**CAUTION !**

**This information is confidential and may not be distributed. Only a qualified service person should reprogram the Region Code.**

**3). Password Change**

- a) Press "SYSTEM" on R/C button
  - b) Select the menu using the "▼" and "▶" button on R/C
  - c) Go feature setup page select "PASSWORD". TV show "ENTER CODE". Press 4 times of "STOP" button on R/C.
  - d) Select "PARENTAL" "8 ADULT" on TV.
  - e) Enter PASSWORD to "1234"
- \* "1234" is a default password supplied.

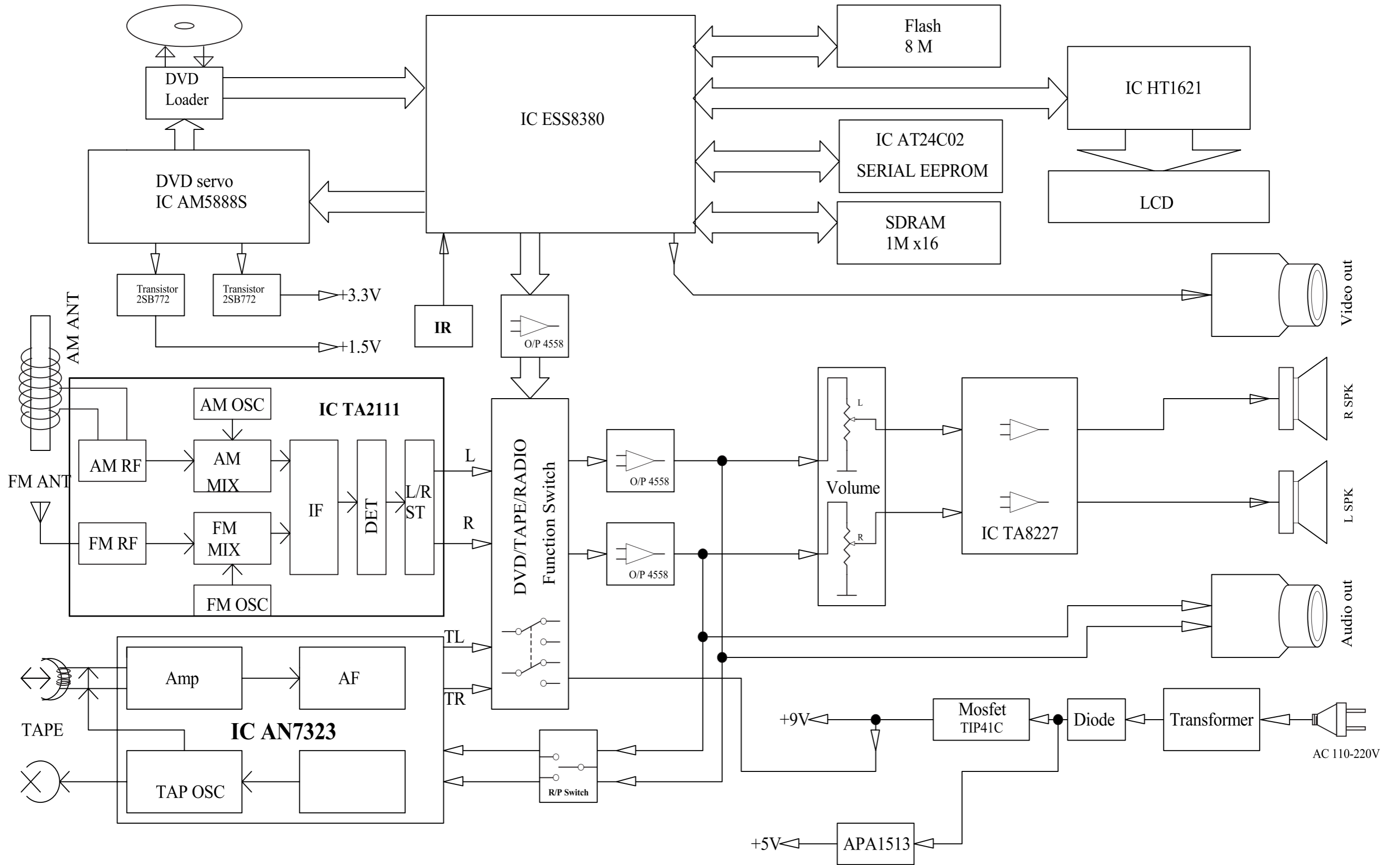
**4). Checking on the Software version**

- a) Open the DVD door.
- b) Press "159" and "OK" on the remote control.
- c) TV will show the version on screen.

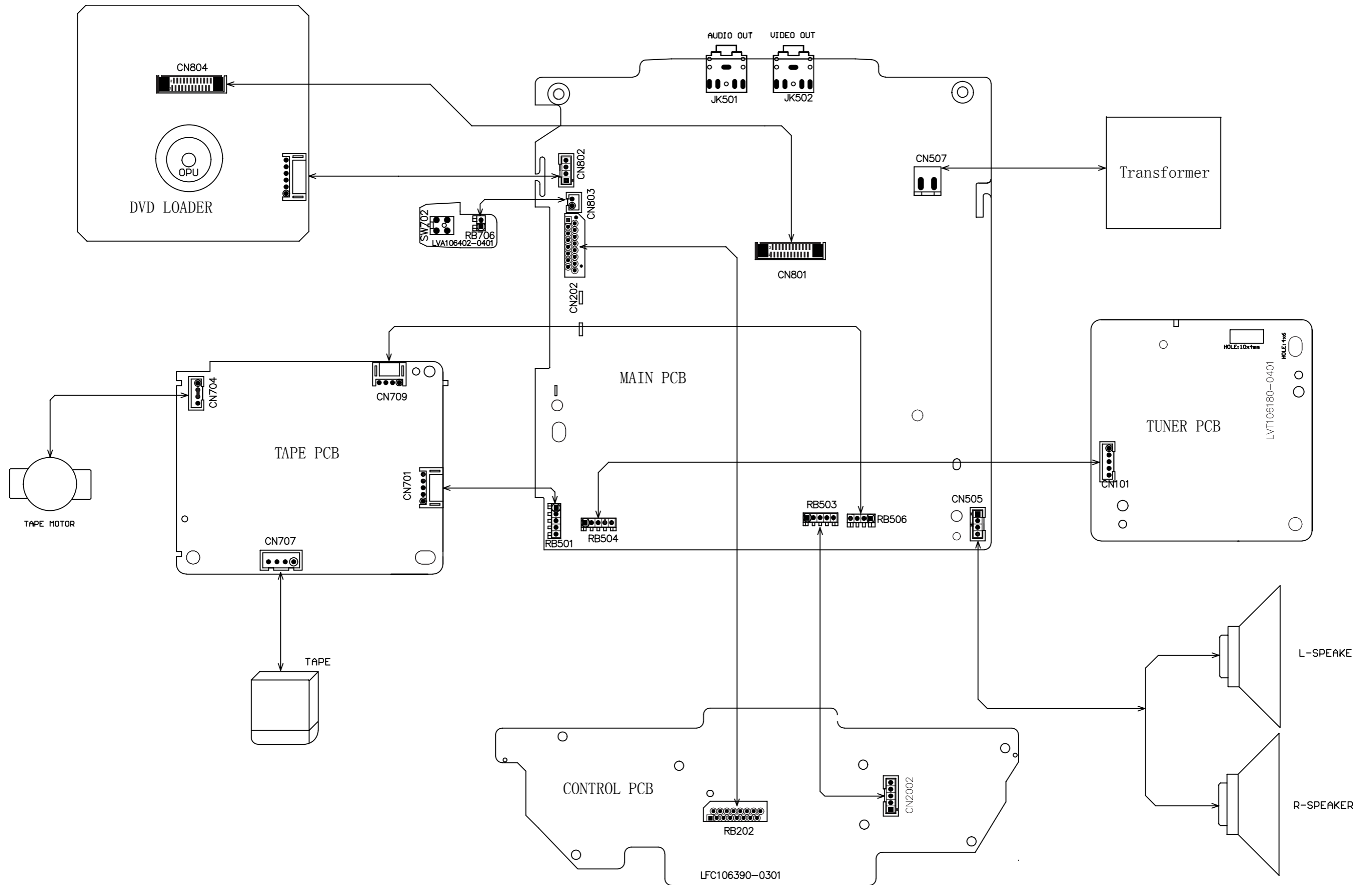
**5). Upgrading new software**

- a) Open the CD-door, then insert the CD-R program disc.
- b) Close the CD-door.
- c) TV will show:-
  - "disc loading"
  - "AZ5737.rom"
  - "writing" about 6 seconds.
  - "Done"

# SET BLOCK DIAGRAM

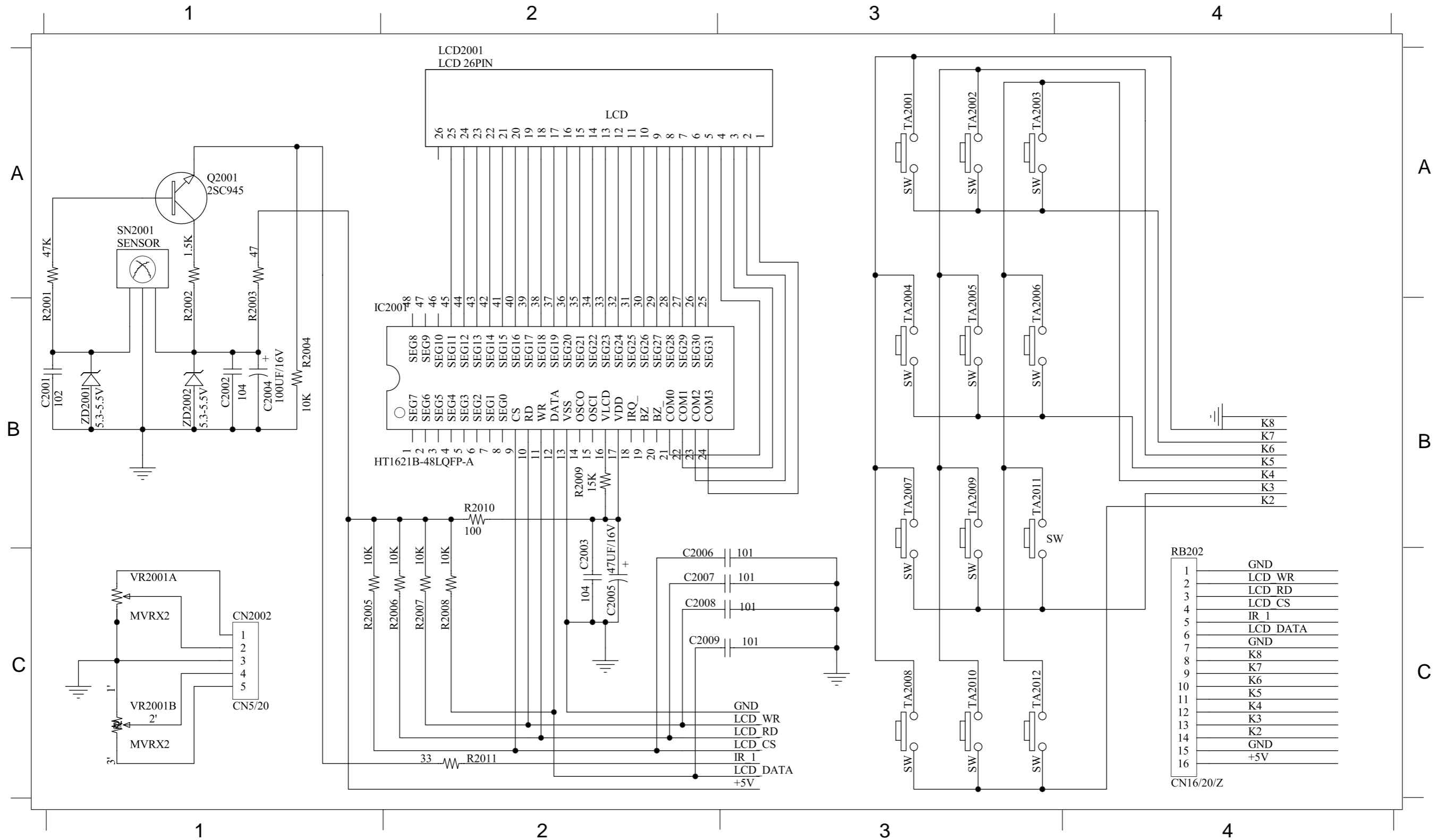


# SET WIRING DIAGRAM



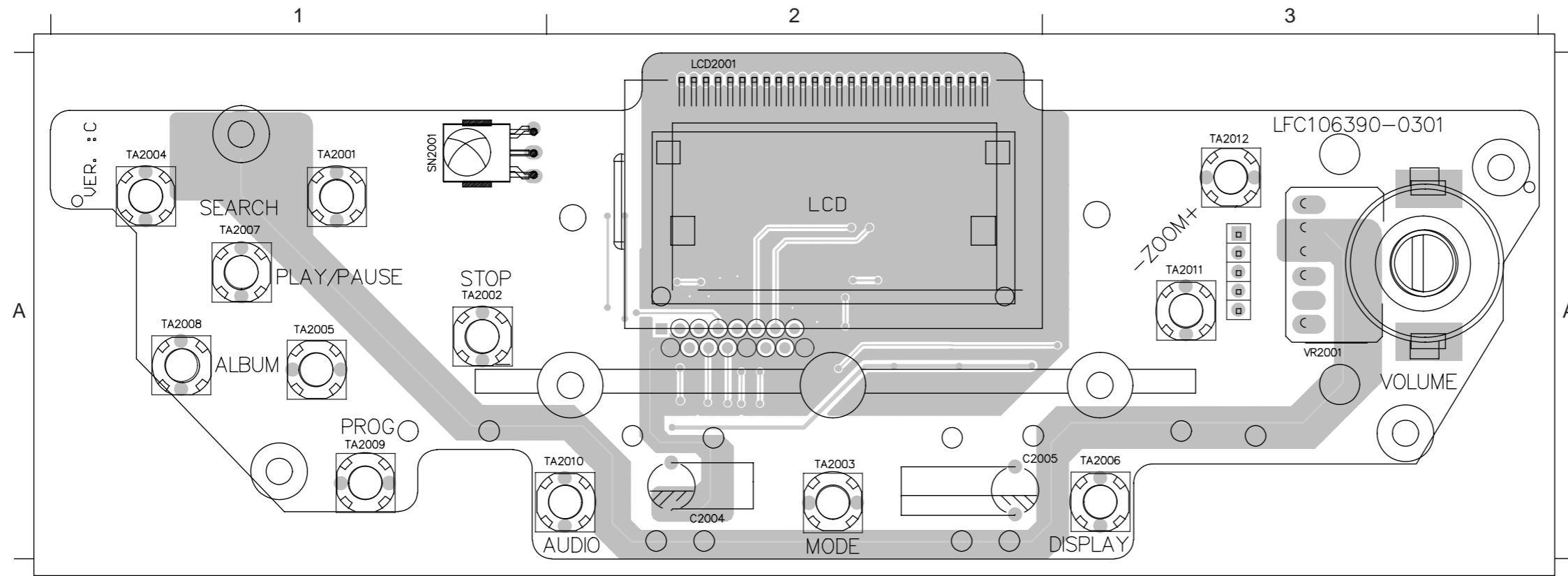
CIRCUIT DIAGRAM - CONTROL BOARD

C2001 B1 C2004 B1 C2007 C3 CN2002 C1 Q2001 A1 R2003 A1 R2006 C2 R2009 B2 RB202 C4 TA2002 A3 TA2005 B3 TA2008 C3 TA2011 B3 ZD2001 B1  
 C2002 B1 C2005 C2 C2008 C3 IC2001 B2 R2001 A1 R2004 B1 R2007 C2 R2010 B2 SN2001 A1 TA2003 A3 TA2006 B3 TA2009 B3 TA2012 C3 ZD2002 B1  
 C2003 C2 C2006 C3 C2009 C3 LCD2001 A2 R2002 A1 R2005 C1 R2008 C2 R2011 C2 TA2001 A3 TA2004 B3 TA2007 B3 TA2010 C3 VR2001 C1

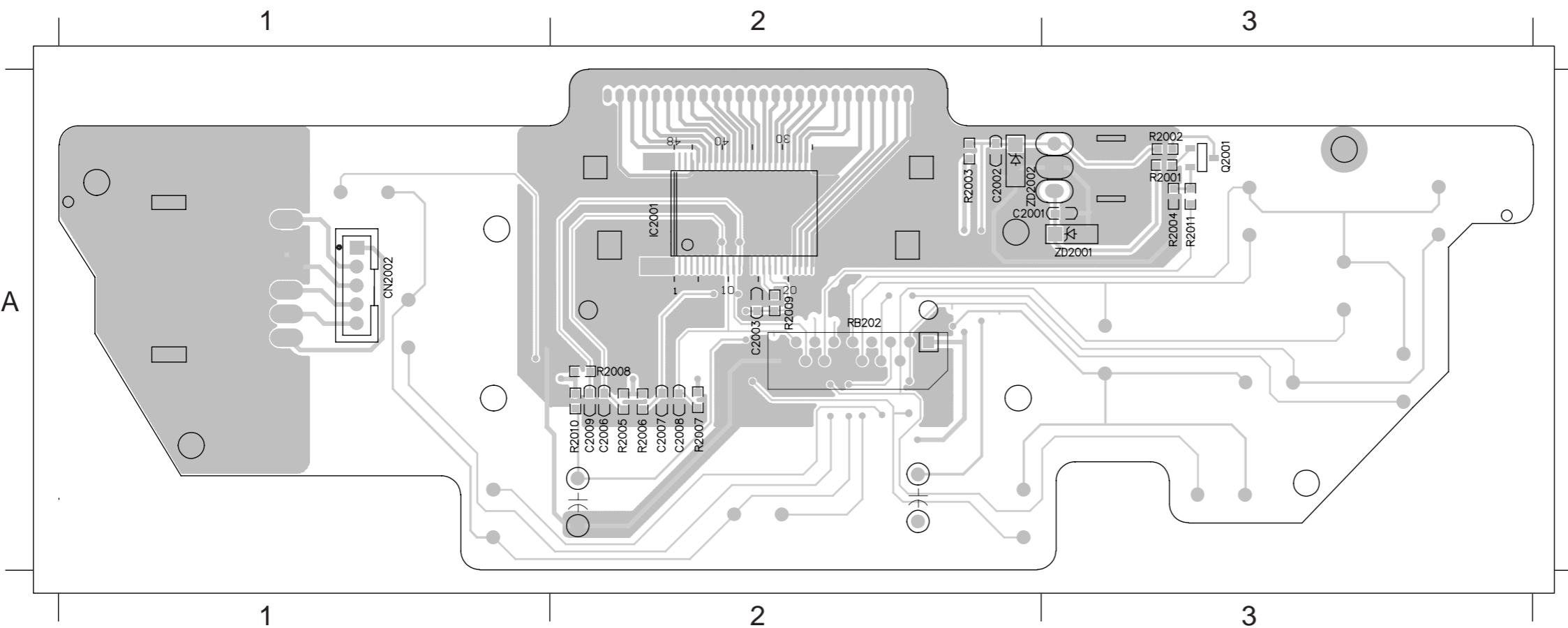




LAYOUT DIAGRAM - CONTROL BOARD

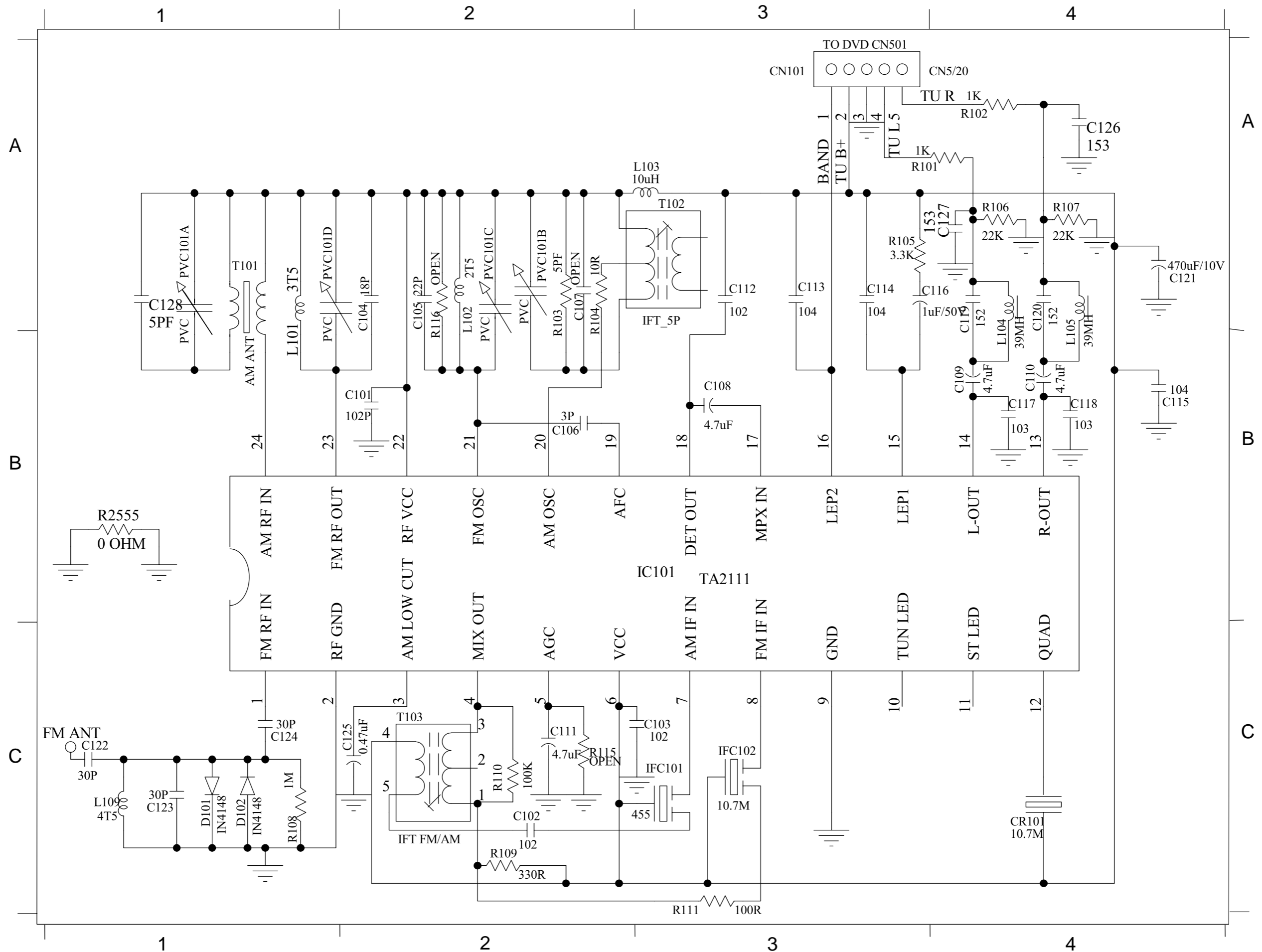


C2004	A2
C2005	A2
LCD2001	A2
SN2001	A1
TA2001	A1
TA2002	A1
TA2003	A2
TA2004	A1
TA2005	A1
TA2006	A3
TA2007	A1
TA2008	A1
TA2009	A1
TA2010	A2
TA2011	A3
TA2012	A3
VR2001	A3
ZD2001	A3
ZD2002	A3



CN2002	A1
IC2001	A1
C2001	A2
C2002	A2
C2003	A2
C2006	A2
C2007	A2
C2008	A2
C2009	A2
R2003	A2
R2005	A2
R2006	A2
R2007	A2
R2008	A2
R2009	A2
R2010	A2
RB202	A2
Q2001	A3
R2001	A3
R2002	A3
R2004	A3
R2011	A3

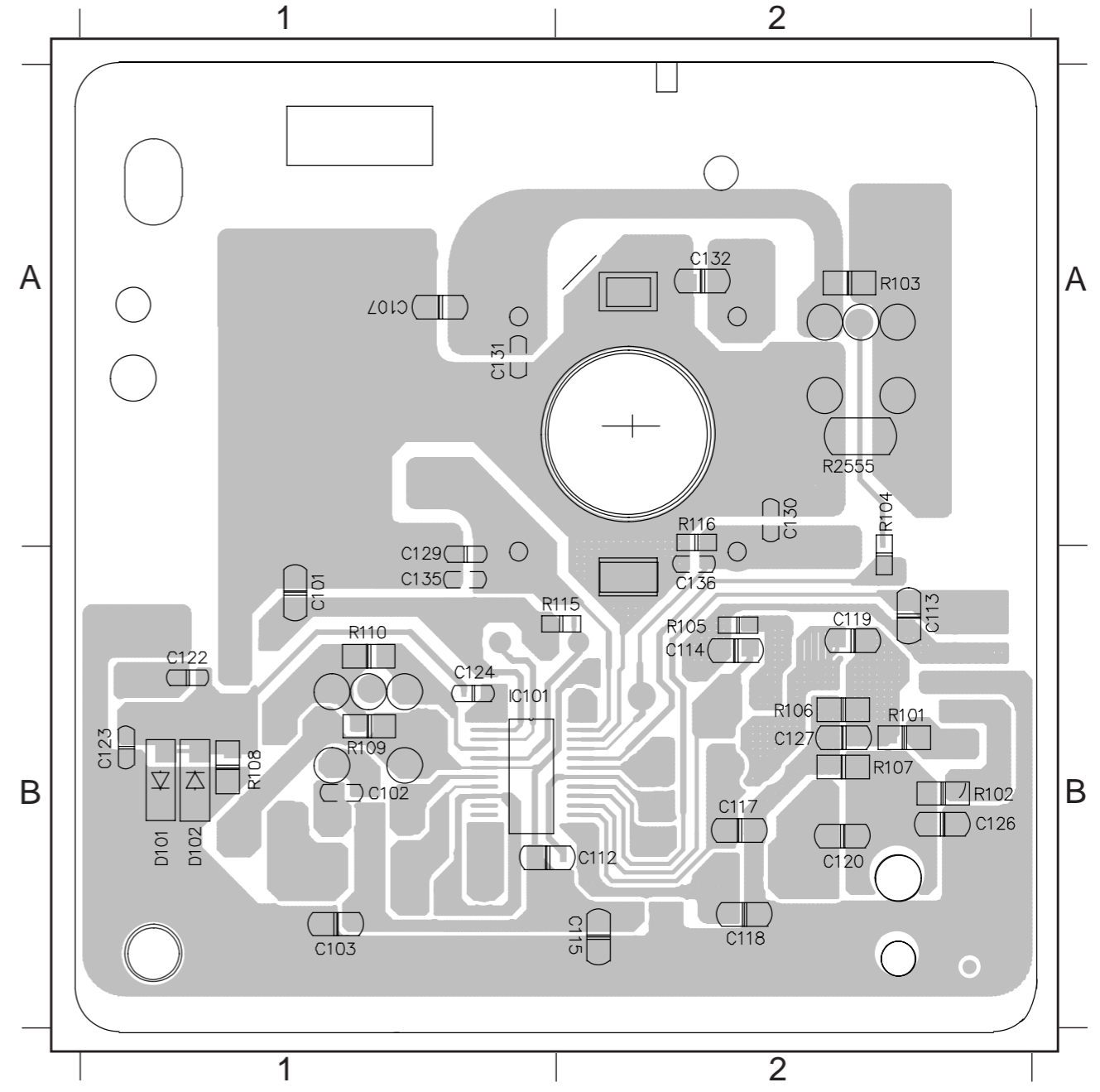
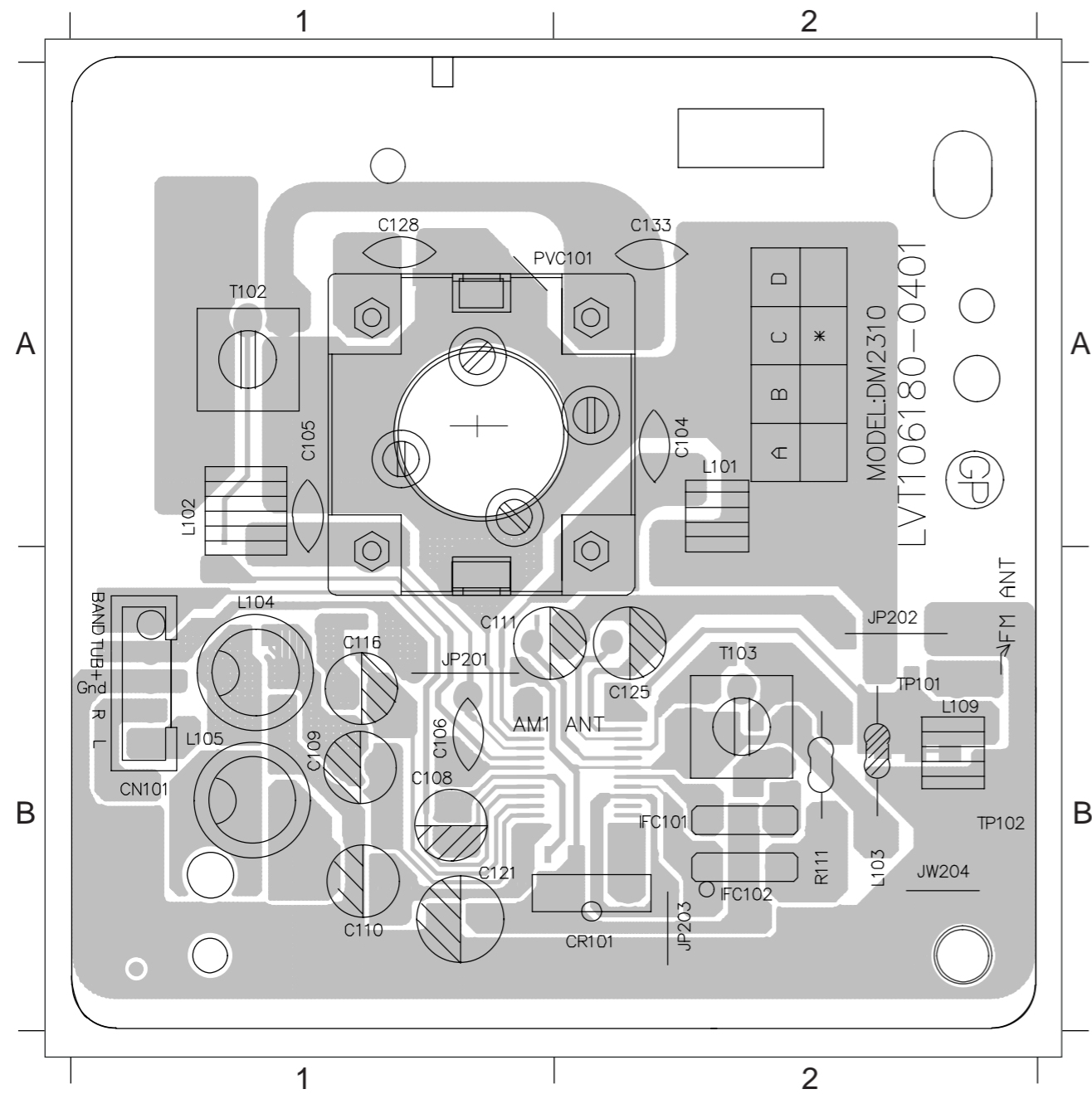
# CIRCUIT DIAGRAM - TUNER BOARD



LAYOUT DIAGARM - TUNER BOARD

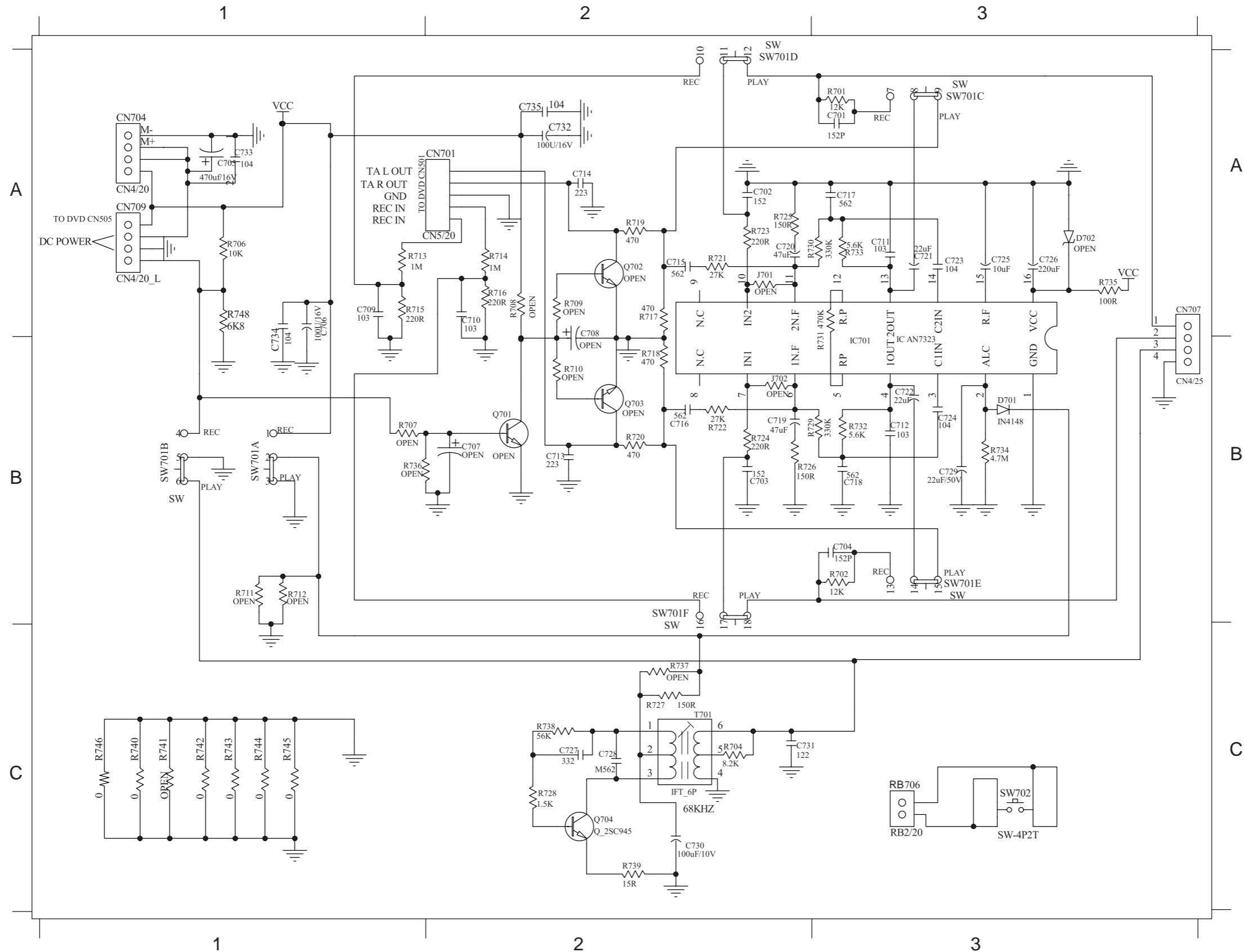
C104	A2	C109	B1	C121	B1	CR101	B1	JP202	B2	L103	B2	PVC101A1	TP101	B2	
C105	A1	C110	B1	C125	B2	IFC101	B2	JP203	B2	L104	B1	R111	B2	TP102	B2
C106	B1	C111	B1	C128	A1	IFC102	B2	L101	A2	L105	B1	T102	A1		
C108	B1	C116	B1	CN101	B1	JP201	B1	L102	A1	L109	B2	T103	B2		

C101	B1	C113	B2	C118	B2	C123	B1	D101	B1	R102	B2	R106	B2	R110	B1
C102	B1	C114	B2	C119	B2	C124	B1	D102	B1	R103	A2	R107	B2	R2555	A2
C103	B1	C115	B2	C120	B2	C126	B2	IC101	B1	R104	A2	R108	B1		
C112	B2	C117	B2	C122	B1	C127	B2	R101	B2	R105	B2	R109	B1		



CIRCUIT DIAGRAM - TAPE BOARD

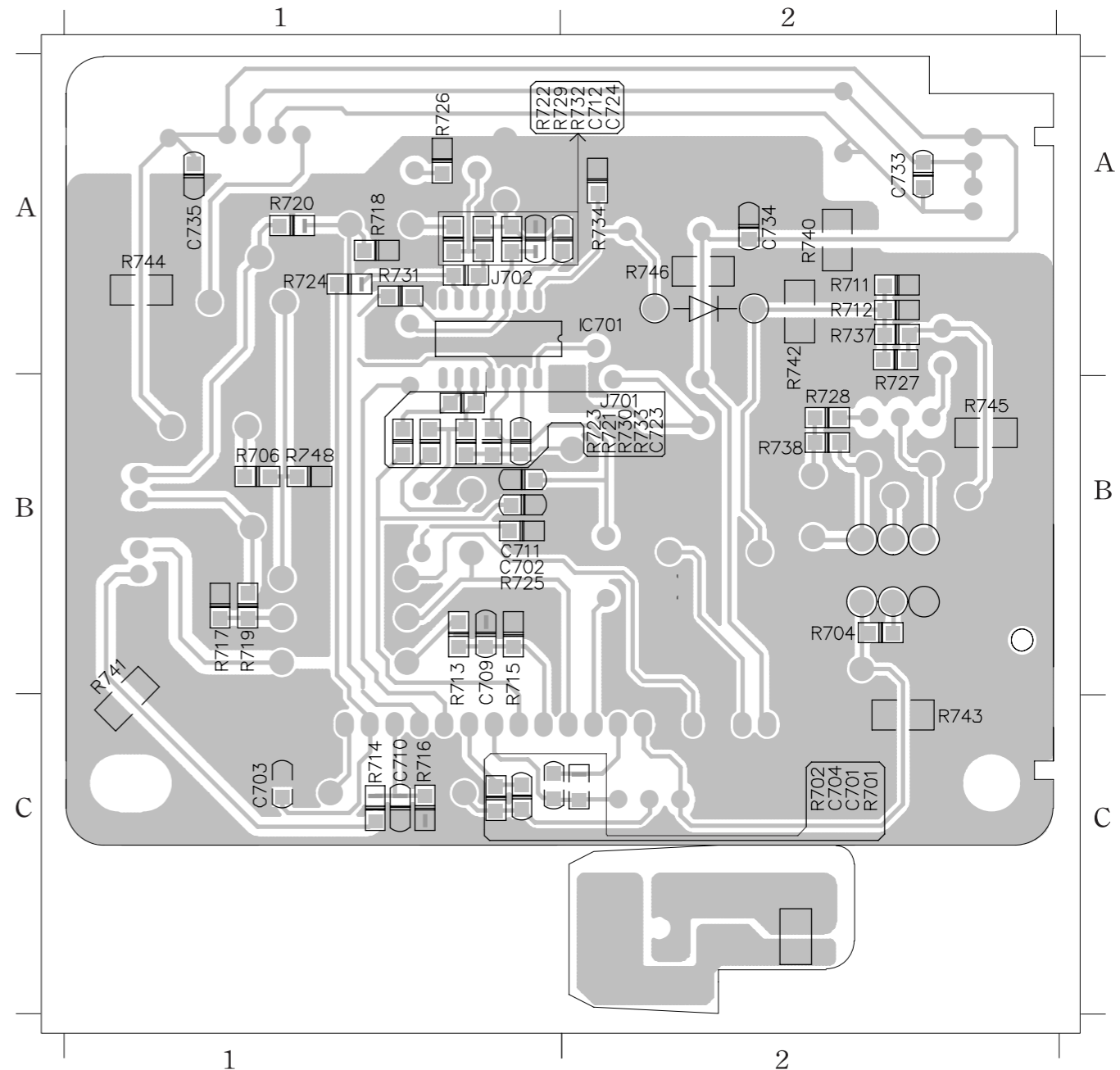
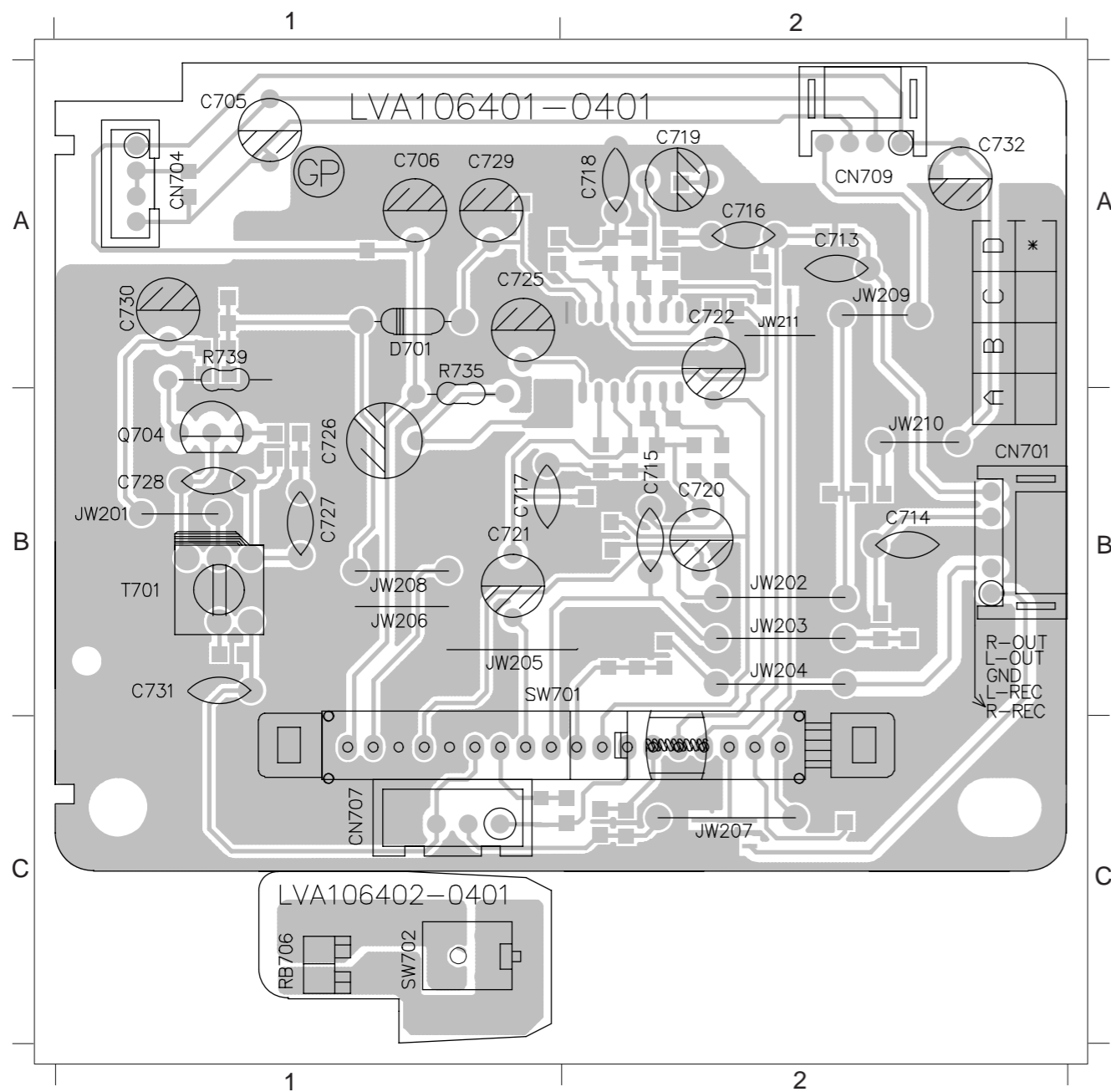
C701	A3	C709	A1	C715	A2	C721	A3	C727	C2	C733	A1	CN707	A3	R702	B3	R716	A2	R722	B2	R728	C2	R734	B3	R743	C1	SW701	B1
C702	A2	C710	A2	C716	B2	C722	B3	C728	C2	C734	A1	CN709	A1	R704	C2	R717	A2	R723	A2	R729	B3	R735	A3	R744	C1	SW702	C3
C703	B2	C711	A3	C717	A3	C723	A3	C729	B3	C735	A2	D701	B3	R706	A1	R718	B2	R724	B2	R730	A3	R738	C2	R745	C1	T701	C2
C704	B3	C712	B3	C718	B3	C724	B3	C730	C2	CN701	A2	IC701	B3	R713	A1	R719	A2	R725	A2	R731	B3	R739	C2	R746	C1		
C705	A1	C713	B2	C719	B2	C725	A3	C731	C2	CN704	A1	Q704	C2	R714	A2	R720	B2	R726	B2	R732	B3	R740	C1	R748	A1		
C706	A1	C714	A2	C720	A2	C726	A3	C732	A2	CN706	C3	R701	A3	R715	A1	R721	A2	R727	C2	R733	A3	R742	C1	RB706			



LAYOUT DIAGRAM - TAPE BOARD

C705	A1 C717	B1 C725	A1 C731	B1 D701	A1 JW206	B1 R739	A1
C706	A1 C718	A2 C726	B1 C732	A2 JW201	B1 JW208	B1 RB706	C1
C713	A2 C719	A2 C727	B1 CN701	B2 JW202	B2 JW209	A2 SW701	B1
C714	B2 C720	B2 C728	B1 CN704	A1 JW203	B2 JW210	B2 SW702	C1
C715	B2 C721	B1 C729	A1 CN707	C1 JW204	B2 Q704	B1 SW702	B2
C716	A2 C722	A2 C730	A1 CN709	A2 JW205	B1 R735	A1 T701	B1

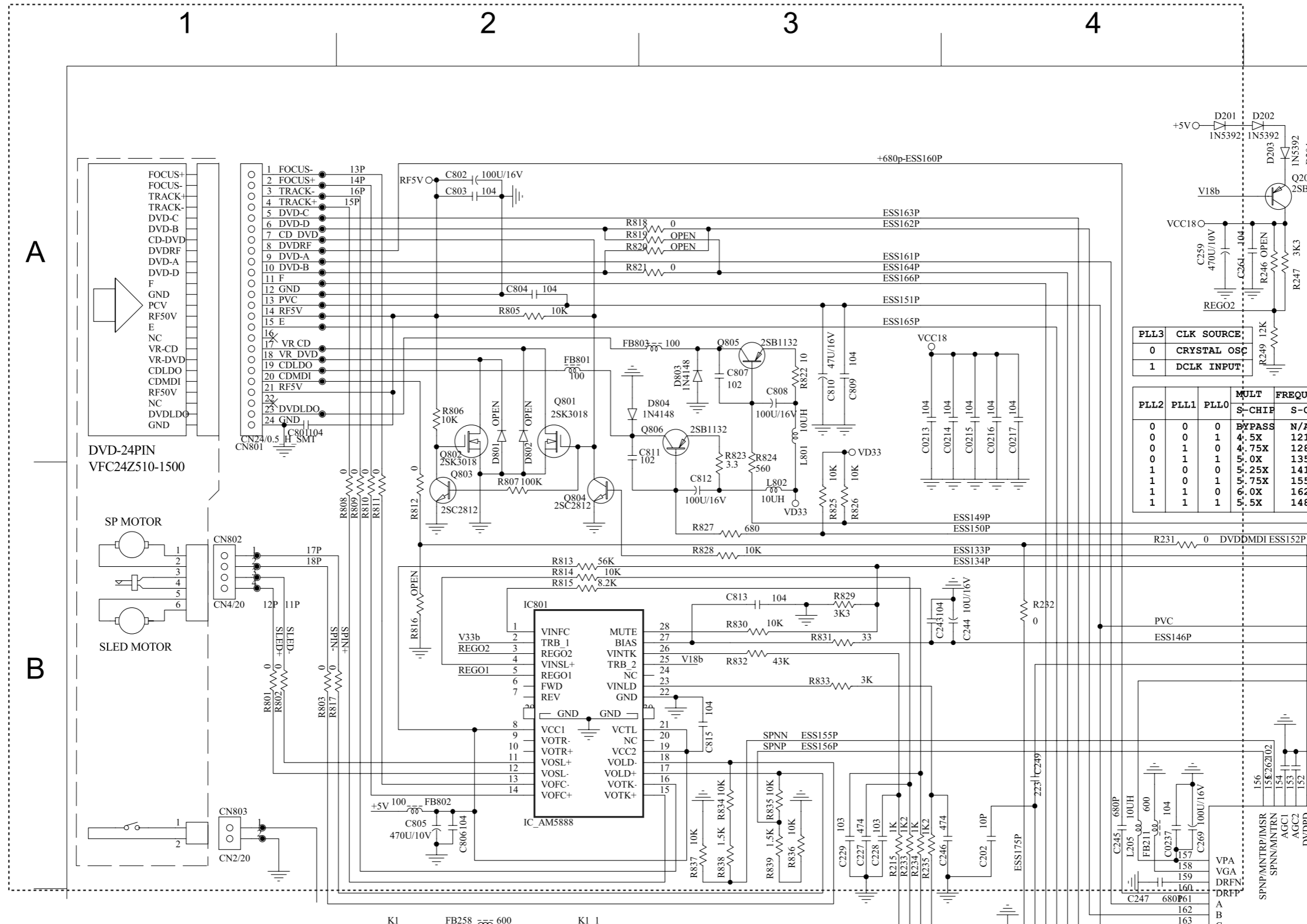
C701	C2C711	B1C735	A1R713	B1R719	B1R725	B1R731	A1R742	A2
C702	B1C712	A2IC701	A2R714	C1R720	A1R726	A1R732	A2R743	C2
C703	C1C723	B2R701	C2R715	B1R721	B2R727	A2R733	B2R744	A1
C704	C2C724	A2R702	C2R716	C1R722	A1R728	B2R734	A2R745	B2
C709	B1C733	A2R704	B2R717	B1R723	B2R729	A1R738	B2R746	A2
C710	C1C734	A2R706	B1R718	A1R724	A1R730	B2R740	A2R748	B1





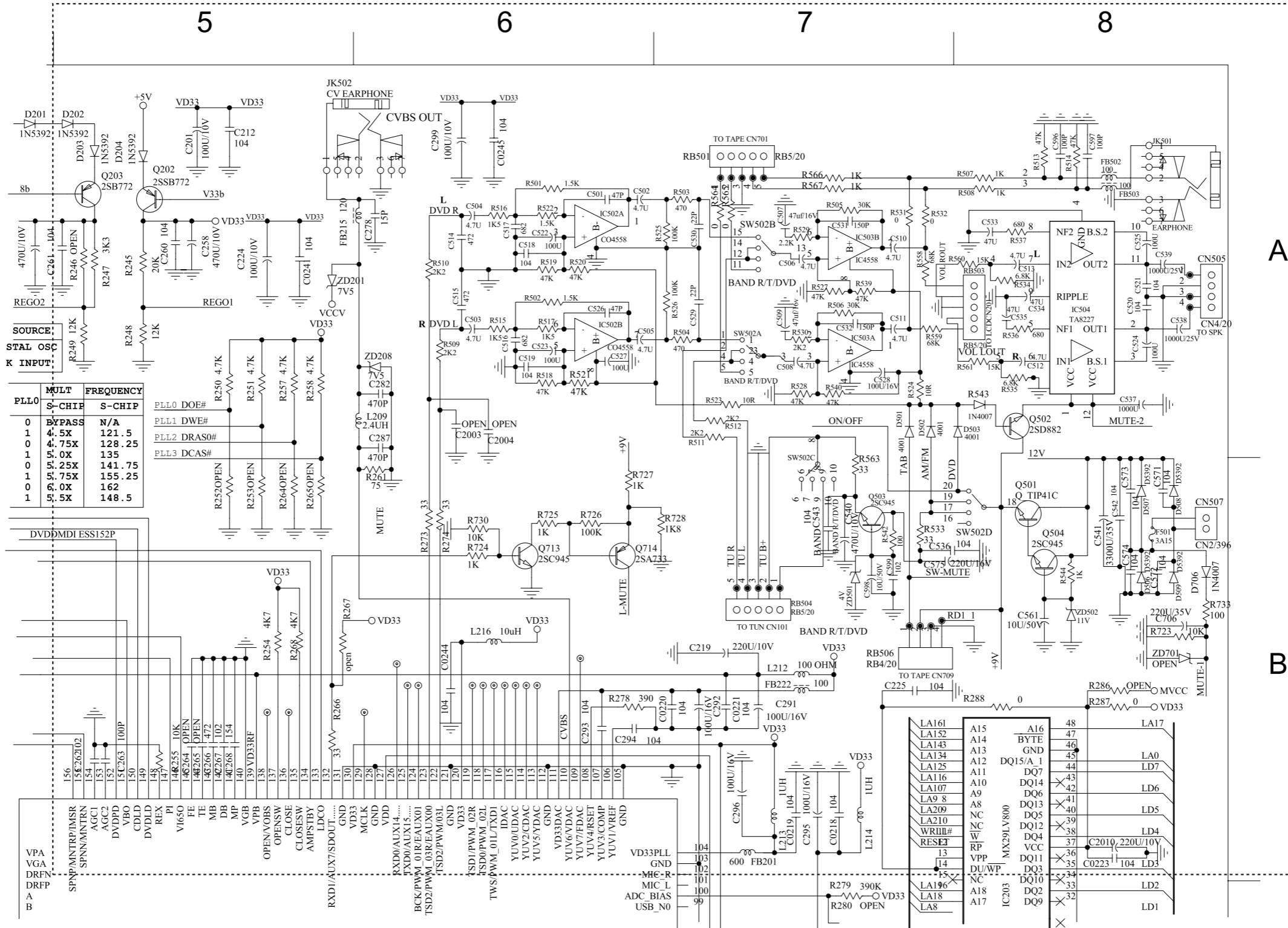
# CIRCUIT DIAGRAM - MAIN BOARD PART1

C0201	C2	C0215	A4	C0230	D8	C2010	B8	C217	C1	C235	C3	C251	C4	C268	B5	C501	A6	C515	A6	C529	A7	C543	B7	C588	C2	C704	D2	C810	A3	CN803	B1	D703	D3	FB209	C1
C0202	C2	C0216	A4	C0231	D8	C2011	D8	C218	C1	C237	C3	C252	C4	C269	B4	C502	A6	C516	A6	C530	A7	C553	D2	C589	C2	C705	D1	C811	A2	D201	A4	D704	D1	FB211	B4
C0203	C2	C0217	A4	C0232	D7	C202	B4	C219	B7	C238	C3	C253	C4	C278	A6	C503	A6	C517	A6	C531	A7	C554	D2	C590	C2	C706	B8	C812	B3	D202	A5	D705	D1	FB212	C3
C0204	C2	C0218	B7	C0234	D4	C203	C2	C223	C1	C239	C3	C254	C4	C282	A6	C504	A6	C518	A6	C532	A7	C555	D1	C591	C2	C707	D2	C813	B3	D203	A5	D706	B8	FB213	C4
C0205	C2	C0219	B7	C0235	C4	C204	C2	C224	A5	C240	C3	C255	D4	C287	A6	C505	A6	C519	A6	C533	A8	C556	D1	C592	C3	C708	D2	C815	B3	D204	A5	D803	A3	FB215	A5
C0206	C2	C0220	B7	C0236	C4	C205	C2	C225	B7	C241	C3	C256	D4	C291	B7	C506	A7	C520	A8	C534	A8	C557	D1	C593	C3	C801	A1	CE5	C1	D501	A7	D804	A2	FB218	D5
C0207	C2	C0221	B7	C0237	B4	C206	C2	C227	B3	C243	B4	C258	A5	C292	B7	C507	A7	C521	A8	C535	A8	C558	D1	C594	C3	C802	A2	CE6	C1	D502	A7	F501	B8	FB222	B7
C0208	C2	C0222	C4	C0238	C1	C207	C2	C228	B3	C244	B4	C259	A4	C293	B6	C508	A7	C522	A6	C536	B7	C560	D1	C595	C3	C803	A2	CE8	C2	D503	A8	FB201	B7	FB258	C2
C0209	C2	C0223	B7	C0239	C1	C208	D2	C229	B3	C245	B4	C260	A5	C294	B6	C509	A7	C523	A6	C537	A8	C561	B8	C596	A8	C804	A2	CE9	C2	D506	B8	FB203	C1	FB269	C1
C0210	C2	C0225	D8	C0240	C1	C209	D2	C230	C3	C246	B4	C261	A5	C295	B7	C510	A7	C524	A8	C538	A8	C571	B8	C597	A8	C805	B2	CN202	C1	D507	B8	FB204	C1	FB270	C1
C0211	C2	C0226	D8	C0241	A5	C210	D3	C231	C3	C247	C4	C262	B5	C296	B6	C511	A7	C525	A8	C539	A8	C572	B8	C598	B7	C806	B2	CN505	A8	D508	B8	FB205	C1	FB271	C1
C0212	C3	C0227	D8	C0244	B6	C211	D3	C232	C3	C248	C4	C263	B5	C297	C7	C512	A8	C526	A6	C540	B7	C573	B8	C599	B7	C807	A3	CN507	B8	D509	B8	FB206	C1	FB272	C1
C0213	A3	C0228	D8	C0245	A6	C212	A5	C233	C3	C249	B4	C266	B5	C298	D6	C513	A8	C527	A6	C541	B8	C574	B8	C701	C2	C808	A3	CN801	A1	D701	D2	FB207	C1	FB273	C1
C0214	A4	C0229	D8	C201	A5	C213	D7	C234	C3	C250	C4	C267	B5	C299	A6	C514	A6	C528	A7	C542	B8	C575	B7	C702	D2	C809	A3	CN802	B1	D702	D3	FB208	C1		

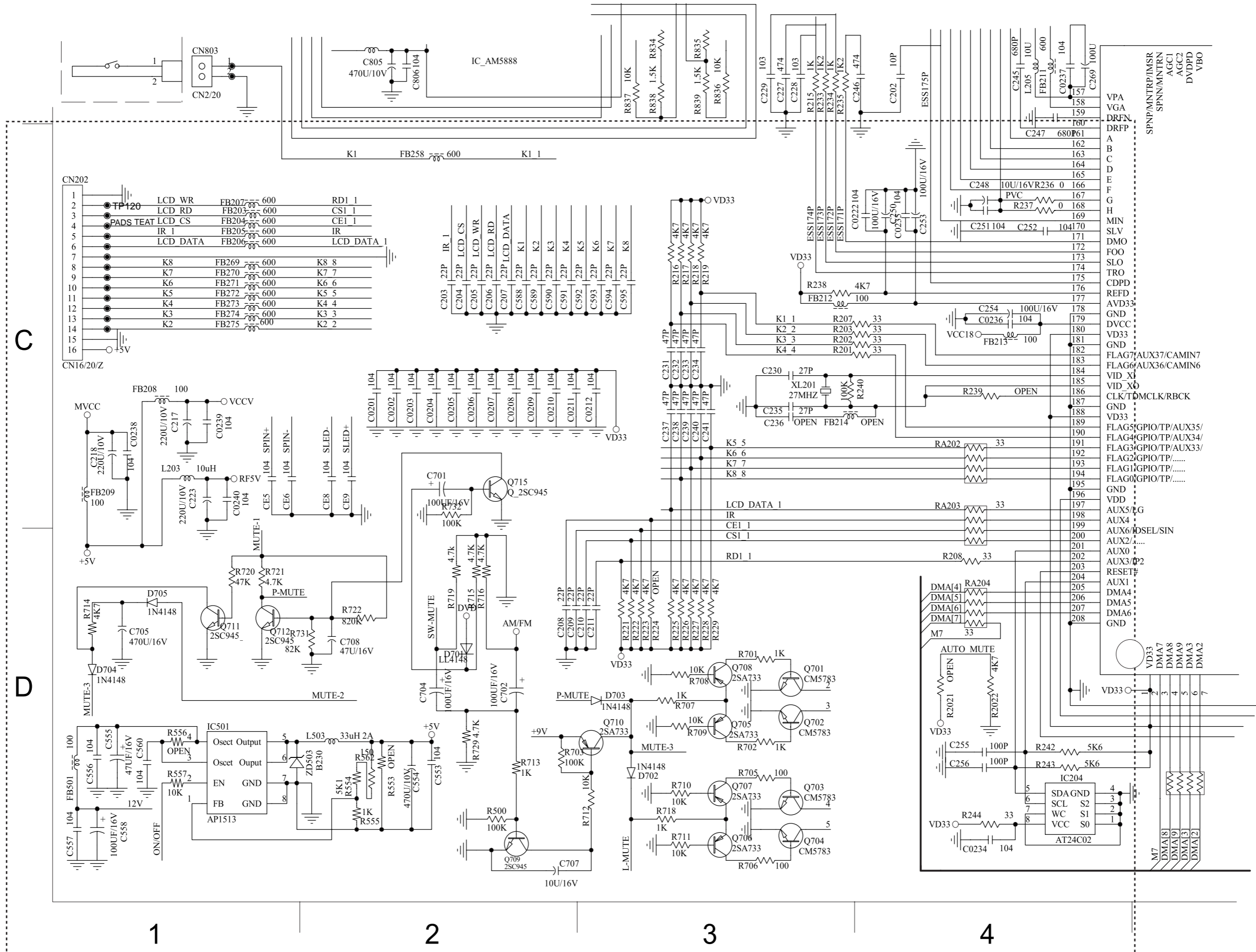


CIRCUIT DIAGRAM - MAIN BOARD  
PART2

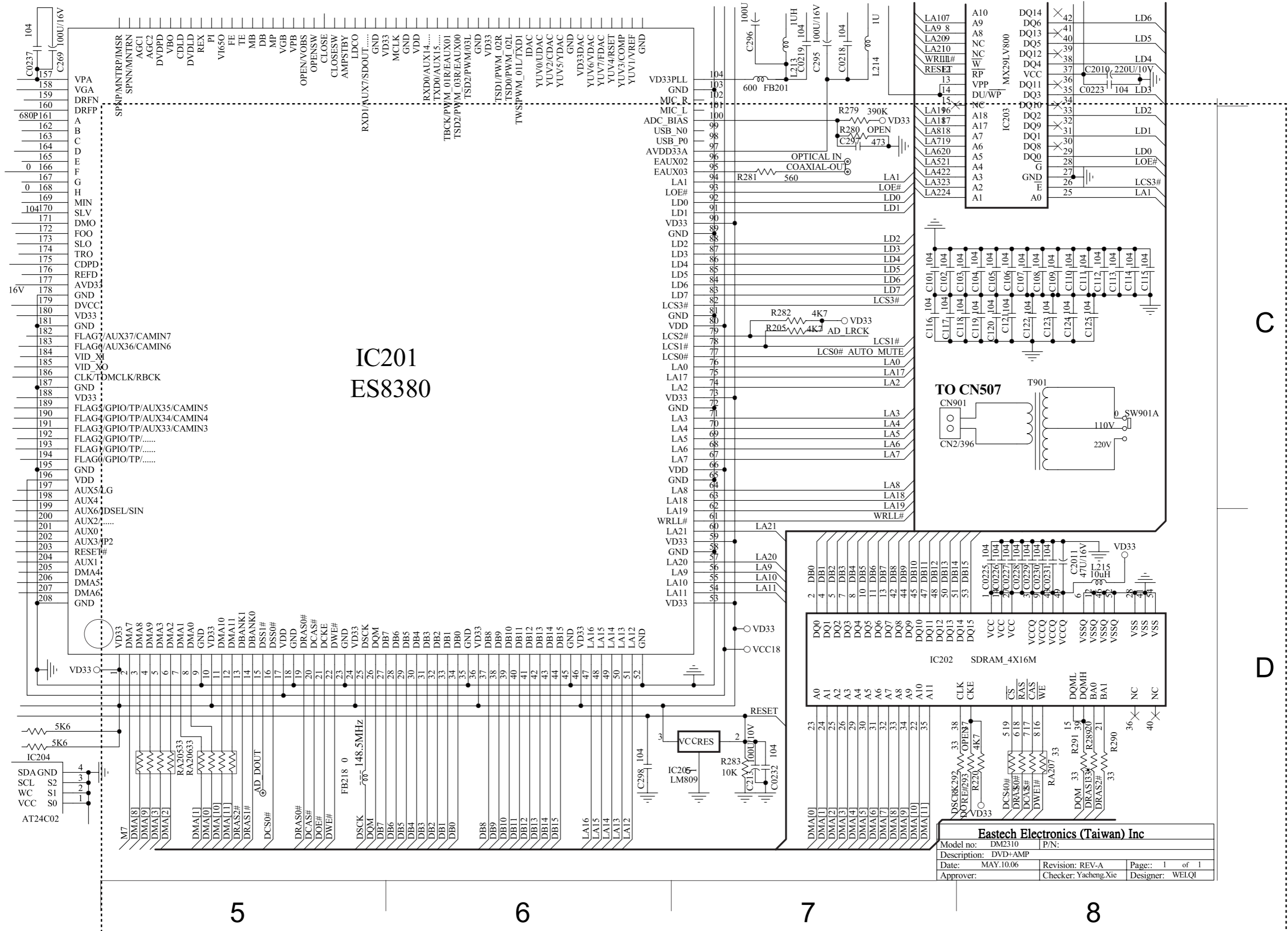
FB274	C1	IC503	A7	L802	B3	Q709	D2	R203	C3	R227	D3	R245	A5	R278	B6	R504	A7	R519	A6	R534	A8	R560	A8	R709	D3	R725	B6	R808	B2	R826	B3	RA203	C4
FB275	C1	IC504	A8	Q202	A5	Q710	D3	R205	C7	R228	D3	R247	A5	R279	C7	R505	A7	R520	A6	R535	A8	R561	A8	R710	D3	R726	B6	R809	B2	R827	B3	RA204	D4
FB501	D1	IC801	B2	Q203	A5	Q711	D1	R207	C3	R229	D3	R248	A5	R281	C7	R506	A7	R521	A6	R536	A8	R562	D2	R711	D3	R727	B6	R810	B2	R828	B3	RA205	D5
FB502	A8	JK501	A8	Q501	B8	Q712	D1	R208	D4	R231	B4	R249	A5	R282	C7	R507	A8	R522	A6	R537	A8	R563	B7	R712	D3	R728	B7	R811	B2	R829	B3	RA206	D5
FB503	A8	JK502	A5	Q502	A8	Q713	B6	R215	B3	R232	B4	R250	A5	R283	D7	R508	A8	R523	A7	R539	A7	R564	A7	R713	D2	R729	D2	R812	B2	R830	B3	RA207	D8
FB801	A2	L203	C1	Q503	B7	Q714	B6	R216	C3	R233	B3	R251	A5	R287	B8	R509	A6	R524	A7	R540	A7	R565	A7	R714	D1	R730	B6	R813	B2	R831	B3	SW502	A7
FB802	B2	L205	B4	Q504	B8	Q715	C2	R217	C3	R234	B3	R254	B5	R288	B8	R510	A6	R525	A7	R542	B7	R566	A7	R715	D2	R731	D1	R814	B2	R832	B3	XL201	C3
FB803	A3	L209	A6	Q701	D3	Q801	A2	R218	C3	R235	B3	R255	B5	R289	D8	R511	A7	R526	A7	R543	A8	R567	A7	R716	D2	R732	C2	R815	B2	R833	B3	ZD201	A5
IC201	C5	L212	B7	Q702	D3	Q802	A2	R219	C3	R236	C4	R257	A5	R290	D8	R512	A7	R527	A7	R544	B8	R701	D3	R718	D3	R733	B8	R817	B2	R834	B3	ZD208	A6
IC202	D7	L213	B7	Q703	D3	Q803	B2	R220	D8	R237	C4	R258	A5	R291	D8	R513	A8	R528	A7	R554	D2	R702	D3	R719	D2	R801	B1	R818	A3	R835	B3	ZD501	B7
IC203	C8	L214	B7	Q704	D3	Q804	B2	R221	D3	R238	C3	R261	B6	R292	D7	R514	A8	R529	A7	R555	D2	R703	D2	R720	D1	R802	B1	R821	A3	R836	B3	ZD502	B8
IC204	D4	L215	D8	Q705	D3	Q805	A3	R222	D3	R240	C3	R266	B5	R500	D2	R515	A6	R530	A7	R556	D1	R705	D3	R721	D1	R803	B1	R822	A3	R837	B3	ZD503	D2
IC205	D7	L216	B6	Q706	D3	Q806	A3	R223	D3	R242	D4	R268	B5	R501	A6	R516	A6	R531	A7	R557	D1	R706	D3	R722	D2	R805	A2	R823	A3	R838	B3		
IC501	D1	L503	D2	Q707	D3	R201	C3	R225	D3	R243	D4	R273	B6	R502	A6	R517	A6	R532	A7	R558	A7	R707	D3	R723	B8	R806	A2	R824	A3	R839	B3		
IC502	A6	L801	A3	Q708	D3	R202	C3	R226	D3	R244	D4	R274	B6	R503	A7	R518	A6	R533	B7	R559	A7	R708	D3	R724	B6	R807	B2	R825	B3	RA202	C4		



# CIRCUIT DIAGRAM - MAIN BOARD PART3

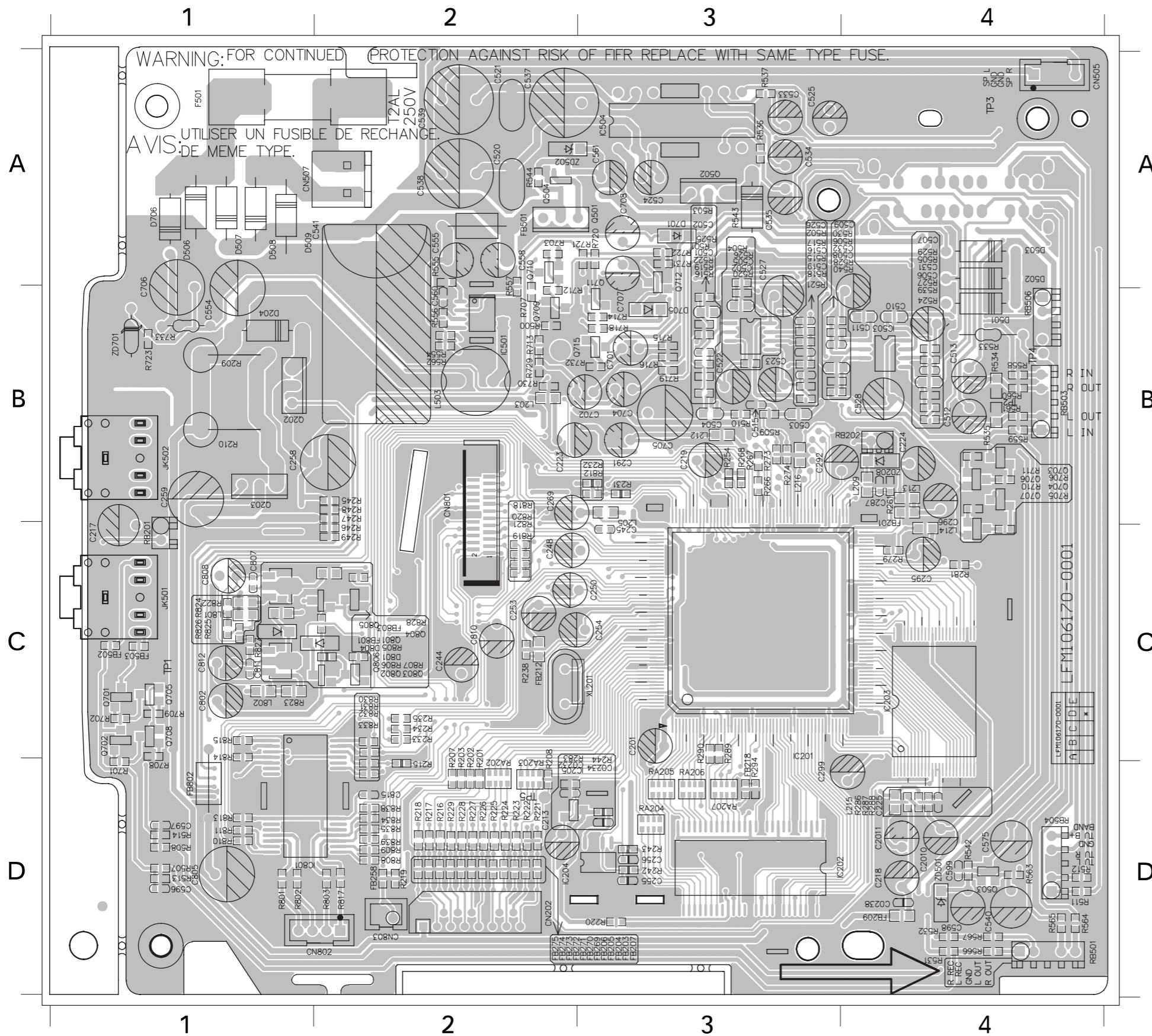


CIRCUIT DIAGRAM - MAIN BOARD PART4





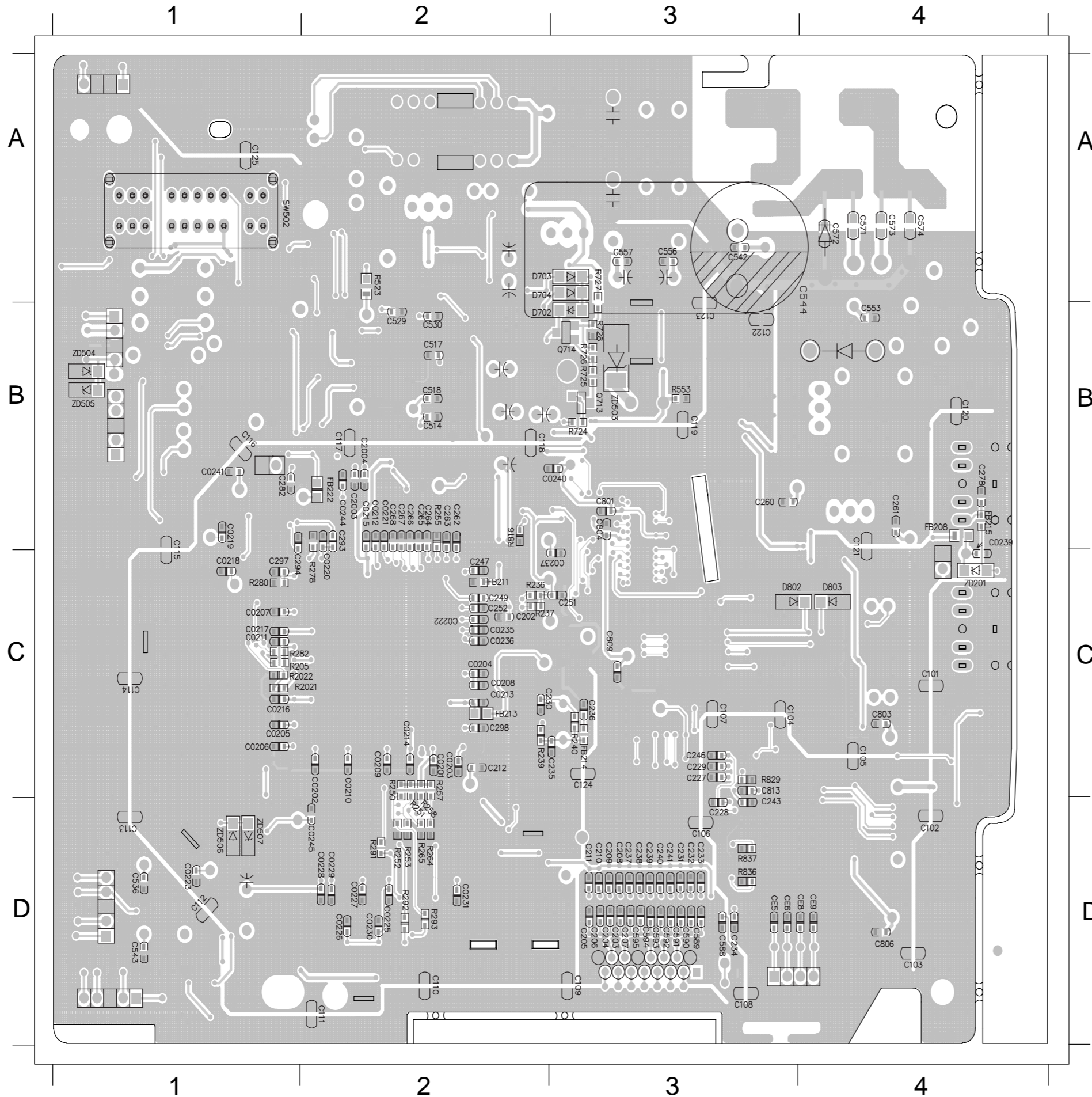
LAYOUT DIAGRAM - MAIN BOARD



C0232	D2	C707	A3	Q503	D4	R514	D1	R814	C1
C0234	D3	C708	A3	Q504	A2	R515	B3	R815	C1
C0238	D4	C802	C1	Q701	C1	R516	B3	R817	D2
C201	C3	C805	D1	Q702	C1	R517	B3	R818	C2
C2010	D4	C807	C1	Q703	B4	R518	B3	R821	C2
C2011	D4	C808	C1	Q704	B4	R519	B3	R822	C1
C213	D2	C810	C2	Q705	C1	R520	B3	R823	C1
C217	C1	C811	C1	Q706	B4	R521	B3	R824	C1
C218	D4	C812	C1	Q707	B4	R522	B3	R825	C1
C219	B3	C815	D2	Q708	C1	R524	B4	R826	C1
C223	B3	CN202	D2	Q709	B2	R525	B3	R827	C1
C224	B4	CN505	A4	Q710	A2	R526	B3	R828	C2
C225	D4	CN507	A2	Q711	A3	R527	B4	R830	C2
C244	C2	CN801	B2	Q712	A3	R528	B3	R831	C2
C245	C3	CN802	D2	Q715	B3	R529	B4	R832	C2
C248	C2	CN803	D2	Q801	C2	R530	B3	R833	C2
C250	C2	D204	B1	Q802	C2	R531	D4	R834	D2
C253	C2	D501	B4	Q803	C2	R532	D4	R835	D2
C254	C2	D502	A4	Q804	C2	R533	B4	R838	D2
C255	D3	D503	A4	Q805	C2	R534	B4	R839	D2
C256	D3	D506	A1	Q806	C2	R535	B4	RA202	D2
C258	B2	D507	A1	R201	D2	R536	A3	RA203	D2
C259	B1	D508	A1	R202	D2	R537	A3	RA204	D3
C269	B3	D509	A1	R203	D2	R539	B4	RA205	D3
C287	B4	D701	A3	R207	D2	R540	B3	RA206	D3
C291	B3	D705	B3	R208	D2	R542	D4	RA207	D3
C292	B4	D706	A1	R215	D2	R543	A3	XL201	C2
C295	C4	D804	C1	R216	D2	R544	A2	ZD208	B4
C296	B4	F501	A1	R217	D2	R545	B2	ZD501	D4
C299	D3	FB201	B4	R218	D2	R555	A2	ZD502	A2
C501	B3	FB203	D2	R219	D2	R556	B2		
C502	B3	FB204	D2	R220	D3	R557	A2		
C503	B3	FB205	D2	R221	D2	R558	B4		
C504	B3	FB206	D2	R222	D2	R559	B4		
C505	B3	FB207	D2	R223	D2	R560	B4		
C506	B4	FB209	D4	R225	D2	R561	B4		
C507	B4	FB212	C2	R226	D2	R562	B2		
C508	B3	FB213	D3	R227	D2	R563	D4		
C509	B3	FB218	D3	R228	D2	R564	D4		
C510	B4	FB258	D2	R229	D2	R565	D4		
C511	B4	FB269	D2	R231	B3	R566	D4		
C512	B4	FB270	D2	R232	B3	R567	D4		
C513	B4	FB271	D2	R233	C2	R701	D1		
C515	B3	FB272	D2	R234	C2	R702	C1		
C516	B3	FB273	D2	R235	C2	R703	A2		
C519	B3	FB274	D2	R238	C2	R705	B4		
C520	A2	FB275	D2	R242	D3	R706	B4		
C521	A2	FB501	A2	R243	D3	R707	B2		
C522	B3	FB502	C1	R244	D3	R708	C1		
C523	B3	FB503	C1	R245	B2	R709	C1		
C524	A3	FB801	C2	R247	B2	R710	B4		
C525	A3	FB802	D1	R248	B2	R711	B4		
C526	B3	FB803	C2	R249	C2	R712	B2		
C527	B3	IC201	C3	R254	B3	R713	B2		
C528	B4	IC202	D3	R261	B4	R714	B3		
C531	B4	IC203	C4	R266	B3	R715	B3		
C532	B3	IC204	D3	R268	B3	R716	B3		
C533	A3	IC205	D2	R273	B3	R718	B3		
C534	A3	IC501	B2	R274	B3	R719	B3		
C535	A3	IC502	B3	R279	C4	R720	A3		
C537	A2	IC503	B4	R281	C4	R721	A3		
C538	A2	IC504	A3	R283	D2	R722	A3		
C539	A2	IC801	D1	R287	D4	R723	B1		
C540	D4	JK501	C1	R288	D4	R729	B2		
C541	A2	JK502	B1	R289	C3	R730	B2		
C554	A1	L203	B2	R290	C3	R731	A3		
C555	A2	L205	B3	R500	B2	R732	B3		
C558	A2	L209	B4	R501	B3	R733	B1		
C560	A2	L212	B3	R502	B3	R801	D1		
C561	A3	L213	B4	R503	B3	R802	D1		
C575	D4	L214	C4	R504	B3	R803	D2		
C596	D1	L215	D4	R505	B4	R805	C2		
C597	D1	L216	B3	R506	B3	R806	C2		
C598	D4	L503	B2	R507	D1	R807	C2		
C599	D4	L801	C1	R508	D1	R808	D2		
C701	B3	L802	C1	R509	B3	R809	D2		
C702	B3	Q202	B1	R510	B3	R810	D1		
C704	B3	Q203	B1	R511	D4	R811	D1		
C705	B3	Q501	A2	R512	D4	R812	B3		
C706	A1	Q502	A3	R513	D1	R813	D1		

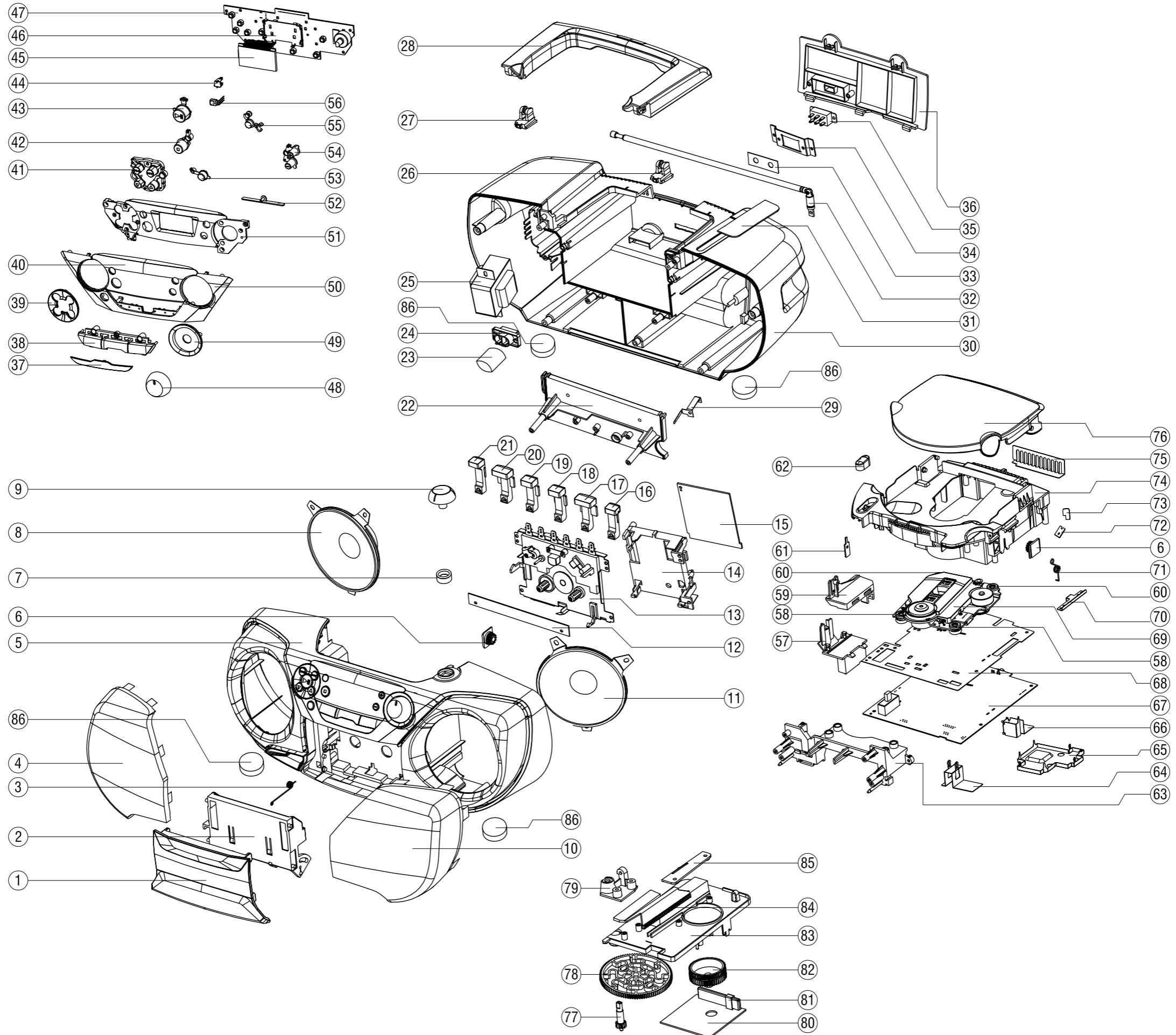


LAYOUT DIAGRAM - MAIN BOARD



C0201	C2	C262	B2	R727	A3
C0202	C2	C263	B2	R728	B3
C0203	C2	C266	B2	R829	C3
C0204	C2	C267	B2	R836	D3
C0205	C1	C268	B2	R837	D3
C0206	C1	C278	B4	SW502	A1
C0207	C1	C282	B1	ZD201	C4
C0208	C2	C293	C2	ZD503	B3
C0209	C2	C294	C1		
C0210	C2	C297	C1		
C0211	C1	C298	C2		
C0212	B2	C514	B2		
C0213	C2	C517	B2		
C0214	C2	C518	B2		
C0215	B2	C529	B2		
C0216	C1	C530	B2		
C0217	C1	C536	D1		
C0218	C1	C542	A3		
C0219	B1	C543	D1		
C0220	C2	C553	B4		
C0221	B2	C556	A3		
C0222	C2	C557	A3		
C0223	D1	C571	A4		
C0225	D2	C572	A4		
C0226	D2	C573	A4		
C0227	D2	C574	A4		
C0228	D2	C588	D3		
C0229	D2	C589	D3		
C0230	D2	C590	D3		
C0231	D2	C591	D3		
C0235	C2	C592	D3		
C0236	C2	C593	D3		
C0237	C2	C594	D3		
C0239	C4	C595	D3		
C0240	B2	C801	B3		
C0241	B1	C803	C4		
C0244	B2	C804	B3		
C0245	D2	C806	D4		
C202	C2	C809	C3		
C203	D3	C813	C3		
C204	D3	CE5	D3		
C205	D3	CE6	D3		
C206	D3	CE8	D3		
C207	D3	CE9	D4		
C208	D3	D702	A3		
C209	D3	D703	A3		
C210	D3	D704	A3		
C211	D3	D803	C4		
C212	C2	FB208	B4		
C227	C3	FB211	C2		
C228	D3	FB215	B4		
C229	C3	FB222	B2		
C230	C2	Q713	B3		
C231	D3	Q714	B3		

EXPLODED VIEW DIAGRAM



**MECHANICAL PARTSLIST**

1	9965 000 38694	CASS DOOR
2	9965 000 38695	CASS DOOR BKT
3	9965 000 38696	CASS DOOR SPRING
5	9965 000 38697	FRONT CABINET
6	9965 000 22120	DAMPER-ASSY-MODULE-0.8
9	9965 000 38698	TUNING KNOB
13	9965 000 38699	TAPE DECK CS-21V-818DTP
16	9965 000 38700	KNOB CASS A RECORD
17	9965 000 38701	KNOB CASS B PLAY
18	9965 000 38702	KNOB CASS C REWIND
19	9965 000 38703	KNOB CASS D F.FWD
20	9965 000 38704	KNOB CASS E STOP
21	9965 000 38705	KNOB CASS F PAUSE
26	9965 000 38706	HANDLE HINGE ADAPTOR-R
27	9965 000 38707	HANDLE HINGE ADAPTOR-L
28	9965 000 38708	HANDLE
30	9965 000 38709	REAR COVER
32	9965 000 38710	ANTENNAL LOD
36	9965 000 38711	BATTERY COVER
37	9965 000 38712	MINI PANEL
38	9965 000 38713	MODE BUTTON SET
39	9965 000 38714	BUTTON SET RING
40	9965 000 38715	DISPLAY LENS
41	9965 000 38716	4 BUTTON SET
42	9965 000 38717	STOP KEY PROGRAM
43	9965 000 38718	PLAY KEY
46	9965 000 38719	LCD BKT
48	9965 000 38720	VOLUME KNOB
49	9965 000 38721	VOLUME RING
50	9965 000 38722	FRONT PANEL
51	9965 000 38723	LCD WINDOW
53	9965 000 38724	PROG KEY
54	9965 000 38725	KEY SET ZOOM
55	9965 000 38726	BP SENSOR LENS
57	9965 000 38727	SELECTOR ADAPTOR
58	9965 000 38728	RUBBER BUSHING
59	9965 000 38729	SELECTOR KNOB BKT
60	9965 000 38730	RUBBER BUSHING
62	9965 000 38731	SELECTOR KNOB
71	9965 000 38732	DVD DOOR SPRING
74	9965 000 38733	DVD TRAY
76	9965 000 38734	DVD DOOR
77	9965 000 38735	GEAR TUNING KNOB
78	9965 000 38736	GEAR BIG POM
82	9965 000 38737	GEAR
84	9965 000 38738	POINTER
86	9965 000 38739	RUBBER FOOT
25	9965 100 01541	POWER TRANSFORMER

**ACCESSORIES**

9940 000 05444	LINE CORD 2P 1500MM
9965 000 38740	RCA CABLE VIDEO (YELLOW)
9965 000 38741	RCA CABLE AUDIO (R/W)
9965 000 38742	REMOTE CONTROL DM2310

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

**ELECTRICAL PARTSLIST - MAIN BOARD****- DIODES -**

ZD201	9965 000 26931	CHIP ZENER 7.5V 0.05 0.5W
ZD208	9965 000 26931	CHIP ZENER 7.5V 0.05 0.5W
ZD501	9940 000 05265	CHIP ZENER 3.9V 5% 0.5W
ZD502	9965 000 38747	CHIP ZENER 11V 5% 0.5W
ZD503	9965 000 38748	CHIP RECTIFIER FM240 SMA

**- IC & TRANSISTORS -**

Q202	9965 000 26946	XISTR PNP 2SB772P/Q NEC
Q203	9965 000 26946	XISTR PNP 2SB772P/Q NEC
Q501	9940 000 05335	XISTR NPN TIP41C
Q502	9965 000 28742	XISTR NPN 2SD882P
Q503	9940 000 00915	XISTR NPN 2SC1623
Q504	9940 000 00915	XISTR NPN 2SC1623
Q701	9965 000 13683	CHIP TRANSISTOR KTC3875Y-RTK
Q702	9965 000 13683	CHIP TRANSISTOR KTC3875Y-RTK
Q703	9965 000 13683	CHIP TRANSISTOR KTC3875Y-RTK
Q704	9965 000 13683	CHIP TRANSISTOR KTC3875Y-RTK
Q705	9940 000 00921	XISTR PNP 2SA812 HFE:200-400
Q706	9940 000 00921	XISTR PNP 2SA812 HFE:200-400
Q707	9940 000 00921	XISTR PNP 2SA812 HFE:200-400
Q708	9940 000 00921	XISTR PNP 2SA812 HFE:200-400
Q709	9940 000 00915	XISTR NPN 2SC1623
Q710	9940 000 00921	XISTR PNP 2SA812 HFE:200-400
Q711	9940 000 00915	XISTR NPN 2SC1623
Q712	9940 000 00915	XISTR NPN 2SC1623
Q713	9940 000 00915	XISTR NPN 2SC1623
Q714	9940 000 00921	XISTR PNP 2SA812 HFE:200-400
Q715	9940 000 00915	XISTR NPN 2SC1623
Q801	3141 018 51690	TRA SM 2SK3018
Q802	3141 018 51690	TRA SM 2SK3018
Q803	9965 000 26928	XISTR NPN 2SC2812N 2204
Q804	9965 000 26928	XISTR NPN 2SC2812N 2204
Q805	9965 000 26927	XISTR PNP 2SB1132RT100
Q806	9965 000 26927	XISTR PNP 2SB1132RT100
IC201	9940 000 05207	IC 208P ES8380FAA
IC202	9940 000 05465	IC 54P EW484M1644VTA-6F
IC203	9940 000 05464	IC 48P MX29LV800CBTC-70G
IC204	9940 000 05208	IC 8P TU24C02CS2BF TURBO CMOS
IC205	9965 000 38749	IC 3P STM809M SOT23-3 ST 4.38V
IC205	9965 000 38750	IC 3P STL8110GCL300 SOT23 3V
IC501	9965 000 38751	IC 8P AP1513SA SOP-8L ANACHIP
IC502	9965 000 29611	IC 8P CO4558A SO8 CERAMATE LF
IC503	9965 000 29611	IC 8P CO4558A SO8 CERAMATE LF
IC504	9965 000 38752	IC 12 PIN TA8227P TOSHIBA
IC801	9940 000 05214	IC 28P V5888S

**- MISCELLANEOUS -**

F501	△	9965 000 38743	FUSE 2A 250V
JK501		9965 000 38744	PHONE JACK 5P BLACK
JK502		9965 000 38745	PHONE JACK 5P YELLOW
SW502		9965 000 38746	SWITCH SLIDE
XL201		9940 000 05201	X'TAL 27MHZ +/-20PPM

**- MISCELLANEOUS -**

9965 000 38763	FFC CABLE 24P 80MM
9940 000 05479	DVD MODULE

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



## ELECTRICAL PARTSLIST - CONTROL BOARD

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### - MISCELLANEOUS -

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LCD200	9965 000 38753	LCD SPARK
TA2001	9965 000 38754	TACT SWITCH
TA2002	9965 000 38754	TACT SWITCH
TA2003	9965 000 38754	TACT SWITCH
TA2004	9965 000 38754	TACT SWITCH
TA2005	9965 000 38754	TACT SWITCH
TA2006	9965 000 38754	TACT SWITCH
TA2007	9965 000 38754	TACT SWITCH
TA2008	9965 000 38754	TACT SWITCH
TA2009	9965 000 38754	TACT SWITCH
TA2010	9965 000 38754	TACT SWITCH
TA2011	9965 000 38754	TACT SWITCH
TA2012	9965 000 38754	TACT SWITCH
SN2001	9940 000 05472	IRT RECEIVER IRM-2638AF4

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### - DIODES -

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ZD2001	9965 000 26930	CHIP ZENER 5.6V 0.05 0.5W
ZD2002	9965 000 26930	CHIP ZENER 5.6V 0.05 0.5W

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### - IC & TRANSISTORS -

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Q2001	9940 000 00915	XISTR NPN 2SC1623
IC2001	9965 000 38755	IC 48P HT1621B

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



**ELECTRICAL PARTSLIST - TUNER BOARD**

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**- COILS & FILTERS -**

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IFC101	9965 000 38756	CER FILTER 465 KHZ
IFC102	9965 000 17368	CER FILTER 10.7 MHZ
T102	9965 000 38758	OSC COIL AM 268UH 796KHZ
T103	9965 000 38759	AM IFT 455KHZ 470PF

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**- IC & TRANSISTORS -**

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IC101	9965 000 38760	IC 24P TA2111FN SSOP24-P 3V
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**- MISCELLANEOUS -**

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PVC101	9965 000 38757	CAP.PVC 20P/82P/160P 6P
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**Note:** Only these parts mentioned in the list are normal service parts.

**ELECTRICAL PARTSLIST - TAPE BOARD**

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**- MISCELLANEOUS -**

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SW701	9965 000 38761	SWITCH PUSH
SW702	9965 000 38762	DETECTOR SWITCHES
T701	9965 000 22303	OSC COIL REC OSC 3MH
	9965 000 38763	FFC CABLE 24P 80MM
	9940 000 05479	DVD MODULE

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**- COILS & FILTERS -**

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Q704	4822 130 41198	2SC945P
IC701	9322 140 00668	IC SM AN7323S (MATJ)

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