

Service Service Service



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190303

Service Manual



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1. Technical Specifications

Specifications

English

PLAYBACK SYSTEM

DVD Video
Video CD & SVCD
CD
PICTURE CD
MP3-CD
CD-R, CD-RW
DVD+R, DVD+RW

VIDEO PERFORMANCE

CVBS 1Vpp --- 75Ω
RGB (SCART) 0.7Vpp into 75 ohm

AUDIO FORMAT

Digital	Mpeg/ AC-3/ DTS	compressed Digital
	PCM	16, 20, 24 bits
		fs, 44.1, 48, 96 kHz
	MP3(ISO 9660)	24, 32, 56, 64, 96, 128, 256 kbps & variable bit rate fs, 16, 22.05, 24, 32, 44.1, 48 kHz

Analog Sound Stereo

AUDIO PERFORMANCE

DA Converter	24bit
Signal-Noise (1KHz)	100dB
Dynamic range(1KHz)	>90dB
DVD	fs 96 kHz 4Hz- 44kHz fs 48 kHz 4Hz- 22kHz
SVCD	fs 48 kHz 4Hz- 22kHz fs 44.1kHz 4Hz- 20kHz
CD/VCD	fs 44.1kHz 4Hz- 20kHz

TV STANDARD (PAL/50Hz) (NTSC/60Hz)

Number of lines	625	525
Playback	Multistandard	(PAL/NTSC)

CONNECTIONS

Scart Output	Euroconnector
Video Output	Cinch
Audio Output(L+R)	Cinch
Digital Output	1 coaxial IEC958 for CDDA / LPCM/ MPEG1 IEC1937 for MPEG 2, Dolby Digital and DTS

CABINET

Dimensions (w x d x h)	360 x 285 x 43 mm
Weight	Approximately 2.2 Kg

Specifications subject to change without prior notice

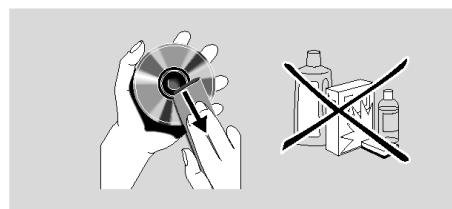
POWER CONSUMPTION

Power consumption in Standby mode <1W

Maintenance

Cleaning the Cabinet

- Use a soft cloth slightly moistened with a mild detergent solution. Do not use a solution containing alcohol, spirits, ammonia or abrasives.



Cleaning Discs

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center out. Do not wipe in a circular motion.
- Do not use solvents such as benzine, thinner, commercially available cleaners, or antistatic spray intended for analog records.

2. Safety Instructions, Warnings, Notes, and Service Hints

2.1 Safety Instructions

2.1.1 General Safety

Safety regulations require that during a repair:

- Connect the unit to the mains via an isolation transformer.
- Replace safety components, indicated by the symbol **▲**, only by components identical to the original ones. Any other component substitution (other than original type) may increase risk of fire or electrical shock hazard.

Safety regulations require that after a repair, you must return the unit in its original condition. Pay, in particular, attention to the following points:

- Route the wires/cables correctly, and fix them with the mounted cable clamps.
- Check the insulation of the mains lead for external damage.
- Check the electrical DC resistance between the mains plug and the secondary side:
 1. Unplug the mains cord, and connect a wire between the two pins of the mains plug.
 2. Set the mains switch to the 'on' position (keep the mains cord unplugged!).
 3. Measure the resistance value between the mains plug and the front panel, controls, and chassis bottom.
 4. Repair or correct unit when the resistance measurement is less than $1\text{ M}\Omega$.
 5. Verify this, before you return the unit to the customer/user (ref. UL-standard no. 1492).
 6. Switch the unit 'off', and remove the wire between the two pins of the mains plug.

2.1.2 Laser Safety

This unit employs a laser. Only qualified service personnel may remove the cover, or attempt to service this device (due to possible eye injury).

Laser Device Unit

Type	: Semiconductor laser GaAlAs
Wavelength	: 650 nm (DVD) : 780 nm (VCD/CD)
Output Power	: 20 mW (DVD+RW writing) : 0.8 mW (DVD reading) : 0.3 mW (VCD/CD reading)
Beam divergence	: 60 degree

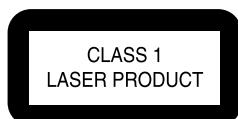


Figure 2-1

Note: Use of controls or adjustments or performance of procedure other than those specified herein, may result in hazardous radiation exposure. Avoid direct exposure to beam.

2.2 Warnings

2.2.1 General

- All ICs and many other semiconductors are susceptible to electrostatic discharges (ESD, **▲**). Careless handling during repair can reduce life drastically. Make sure that, during repair, you are at the same potential as the mass of the set by a wristband with resistance. Keep components and tools at this same potential. Available ESD protection equipment:
 - Complete kit ESD3 (small tablemat, wristband, connection box, extension cable and earth cable) 4822 310 10671.
 - Wristband tester 4822 344 13999.
- Be careful during measurements in the live voltage section. The primary side of the power supply (pos. 1005), including the heatsink, carries live mains voltage when you connect the player to the mains (even when the player is 'off!'). It is possible to touch copper tracks and/or components in this unshielded primary area, when you service the player. Service personnel must take precautions to prevent touching this area or components in this area. A 'lightning stroke' and a stripe-marked printing on the printed wiring board, indicate the primary side of the power supply.
- Never replace modules, or components, while the unit is 'on'.

2.2.2 Laser

- The use of optical instruments with this product, will increase eye hazard.
- Only qualified service personnel may remove the cover or attempt to service this device, due to possible eye injury.
- Repair handling should take place as much as possible with a disc loaded inside the player.
- Text below is placed inside the unit, on the laser cover shield:

CAUTION VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AVOID EXPOSURE TO BEAM
ADVARSEL SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING UNDGA UDSETTELSE FOR STRÅLING
ADVARSEL SYNLIG OG USYNLIG LASERSTRÅLING NÄR DÖKSDEL ÄPNES UNDGA EKSPONERING FÖR STRÅLEN
WARNING SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD BETRAKTA EJ STRÅLEN
VARO! AVATTESA OLET ALTTINA NÄKYVÄLLE JA NÄKYMÄTÖMÄLLÄ LASER SÄTEILYLLÄ. ÄLÄ KATSO SÄTEESEN
VORSICHT SICHTBARE UND UNSICHTBARE LASERSTRÄHLUNG WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETZEN
DANGER VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AVOID DIRECT EXPOSURE TO BEAM
ATTENTION RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE EXPOSITION DANGEREUSE AU FAISCEAU

Figure 2-2

2.2.3 Notes

Dolby

Manufactured under licence from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished Works. ©1992-1997 Dolby Laboratories, Inc. All rights reserved.



Figure 2-3

Trusurround

TRUSURROUND, **SRS** and symbol (fig 2-4) are trademarks of SRS Labs, Inc. TRUSURROUND technology is manufactured under licence from SRS labs, Inc.



Figure 2-4

2.3 Service Hints

2.3.1 Repair tips

Switched mode power supply

The power supply unit has to be replaced in case of failure. The schematic diagram provided in the service manual is only for information and no service parts will be available.

DVD Loader

The DVD Loader is a non-repairable unit and in case of failure, it has to be replaced with a complete DVD Loader.

Mpeg board and Front Display

The Mpeg board and Front display has to be repaired down to component level.

2.3.2 Change of Software setting

The software setting can be change according to the following procedure:

1. Press "OPEN/CLOSE" button on the front of the player to open the disc tray.
2. Enter the 4-digit code <9> <9> <9> <9> on the remote control.
3. Enter one of the keys below to change the software setting.

REGION CODE

USA	==> 1
EUROPE	==> 2
AP	==> 3
LATAM	==> 4
INDIA / RUSSIA	==> 5
CHINA	==> 6

SUBTITLE 7: Set to setup configuration of DVD625 / 001

SUBTITLE 7: Set to setup configuration of DVD625 / 021

SUBTITLE 7: Set to setup configuration of DVD625 / 051

4. The change should effect immediately with information indicated on TV screen.

Note: When changing the setup configuration, the change will take immediate effect with the information indicated on the TV screen for a short period and the tray will close automatically and player will go to standby.

2.3.3 Software upgrade via Download disc

Both the application and servo software are delivered in one stack and it can be flashed into the DVD player by means of a CD-ROM disc. The CD-ROM disc has to be made with a CD writer SW.

Note:

1. The file name used for writing on the CD-R/RW MUST be in UPPER-CASE.eg: SD542PH.BIN
2. For better and fast reading, add one big garbage file of 50-100MB.

Software upgrade procedure

1. Open disc tray on the player.
2. Insert the DOWNLOAD DISC into the player and close disc tray.
3. The upgrading operation will start automatically.
4. The VFD will display the upgrading progress, 'ERASE...-->'WRITE F'-->....-->'WRITE 0'--> UPGRADE end or the LED will turn ON and OFF)
5. The upgrading will take approximately about 1 minute.
6. Once when the software is upgraded, the disc tray will automatically eject.
7. The player will be restarted automatically and display on VFD will show "NO DISC".

Important note:

Do not power off or interrupt the mains during the upgrading else the player's flash memory will be erased.

2.3.4 Verify setting

To check that the setting has change successfully.

1. Press "DISPLAY" button on the remote control while disc tray is open.
2. Two lines text will appear on the TV screen. That is how it looks like.

SD542PH-030219-728-001N

SERVO:001FC72 REG:2

In text, the following numbers refer to:

SD542PH-030219	==> refer to Application software version
REG 2	==>refer to region code
SERVO:001FC72	==> refer to servo software version
625-001N	==> refer to setup configuration of a type number,eg. DVD625/001

2.3.5 ComPair

There is no ComPair available

2.4 Service Tools

- Test discs
 - Audio signals disc 4822 397 30184
- Torx screwdrivers
 - Set (straight, T2 to T20) 4822 395 50145
 - Set (square, T10, T15, T20to T20) 4822 395 50132

2.5 Revision Information

Service Manual Version : 1.0

Issue Date : February 21, 2003

Revision Information : N/A

3. Directions for Use

Contents

English

English

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Leave the power on for about one hour with no disc in the DVD player until normal playback is possible.

- The mechanical parts of the set contain self-lubricating bearings and must not be oiled or lubricated.

When the DVD player is switched to Standby mode, it is still consuming some power. To disconnect the system from the power supply completely, remove the AC power plug from the wall socket.

Environmental Information

Thank you for purchasing this Philips DVD player. This Owner's Manual explains the basic operation of this DVD player:

- All unnecessary packaging has been omitted. We have tried to make the packaging easy to separate into three materials: cardboard (box), polystyrene foam (buffer) and polyethylene (bags, protective foam sheet).

Your DVD player consists of materials which can be recycled and reused if disassembled by a specialized company. Please, observe the local regulations regarding the disposal of packaging materials, exhausted batteries and old equipment.

Supplied accessories

- DVD-Video player
- Remote control with Batteries
- Owner's Manual

Safety Information

- Before operating the DVD player, check that the operating voltage indicated on the typeplate is identical with the voltage of your local power supply. If not, please consult your dealer.
- Place the DVD player on a flat, hard and stable surface.
- There must be sufficient room in front of the player for the drawer to be opened.
- In a cabinet, allow about 2.5cm (1 inch) of free space all around the player for adequate ventilation.
- Do not expose your player to extremes of temperature, or humidity.
- If the DVD player is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens of the disc unit inside the DVD player. Should this occur, the DVD player would not operate normally.

Symbols Used in this Booklet

The below symbols appear in some headings and notes with the following meanings:

	- Description refers to playback of DVD-video discs
	- Description refers to playback of Video CDs
	- Description refers to playback of Audio CDs
	- Description refers to playback of Super VCDs

Helpful Hints!

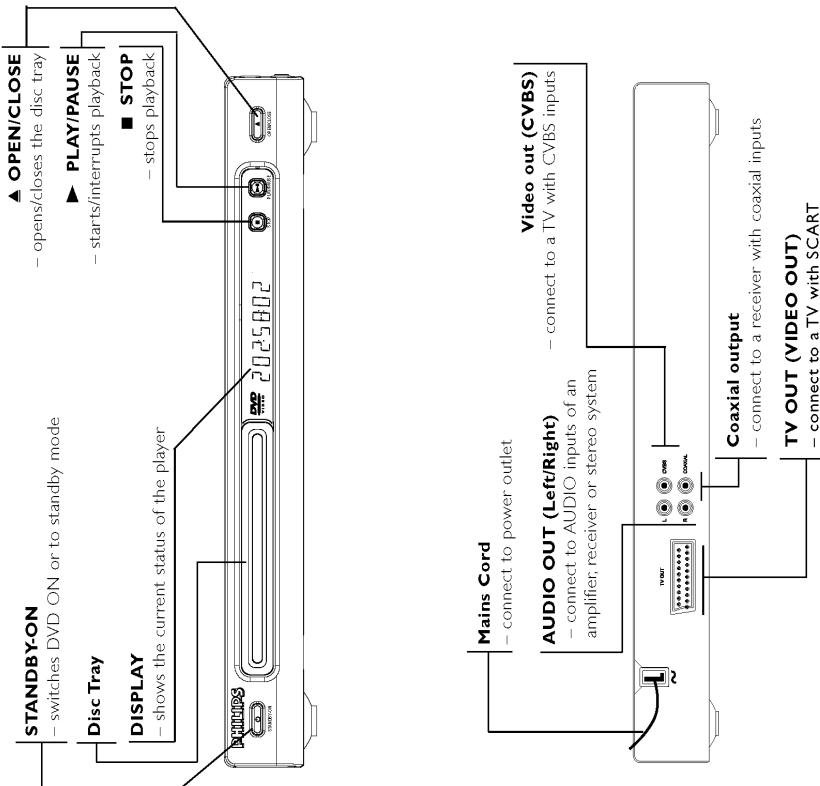
- Some discs limit certain functions during playback (eg fast forward is not working at the beginning of certain discs). This is normal behaviour because the disc determines the way in which you can interact with its content.

Functional Overview

Front and Rear Panels

English

English

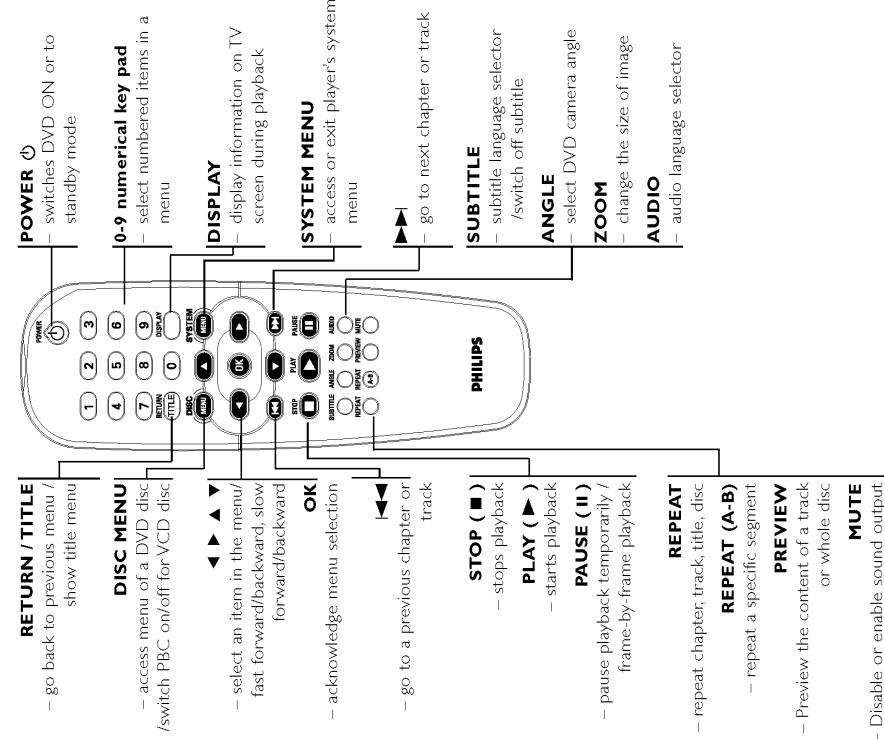


Caution: Do not touch the inner pins of the sockets on the rear panel. Electrostatic discharge may cause permanent damage to the unit.

Functional Overview

Remote Control

English



Note:
Press "STOP" for about 2 seconds to
OPEN or CLOSE disc tray.

Preparation

English

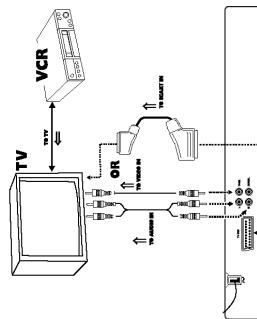
If your TV is not equipped with a SCART input, you can select the following connection:

- Please refer to the instruction manuals of your TV, VCR, Stereo System or other devices as necessary to make the best connections.
- Make one of the following connections, depending on the capabilities of your existing equipment.

The following guidelines are options for the best picture and sound quality available on your DVD player.

Picture

- 1 Use the CVBS Video Output for good picture quality.
- 2 Use SCART Output for best picture quality.



Sound

- 1 Digital audio connections provide the clearest sound. Connect the DVD player's DIGITAL AUDIO OUT (COAXIAL) to your amplifier or receiver.
- 2 If digital connections are not possible, connect the DVD player's Left and Right (white and red) AUDIO OUT to your amplifier, receiver, stereo or TV.

Warning!

- Never make or change connections with the power switched on.
- Connect the DVD player directly to your TV, instead of e.g. a VCR, to avoid distortion because DVD video discs are copy protected.
- Do not connect the DVD player **AUDIO OUT** to **PHONO IN** of your amplifier or receiver.

Connecting to a TV

- 1 Connect the SCART (TV OUT) on the DVD player to the corresponding connector (TV IN) on your TV

Preparation

English

If your TV has a **CVBS Video input connector**,

- 1 Connect the CVBS VIDEO OUT on the DVD player to the CVBS VIDEO IN.
- 2 Connect the Left and Right AUDIO OUT on the DVD player to the Left and Right AUDIO IN on the TV.

The following guidelines are options for the best picture and sound quality available on your DVD player.

Picture

- 1 Use the CVBS Video Output for good picture quality.
- 2 Use SCART Output for best picture quality.

Sound

- 1 Digital audio connections provide the clearest sound. Connect the DVD player's DIGITAL AUDIO OUT (COAXIAL) to your amplifier or receiver.
- 2 If digital connections are not possible, connect the DVD player's Left and Right (white and red) AUDIO OUT to your amplifier, receiver, stereo or TV.

Warning!

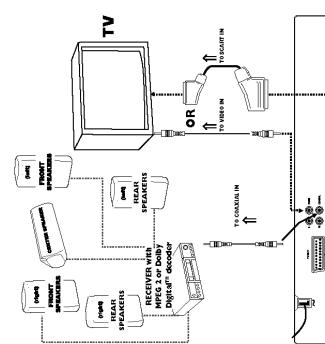
- Never make or change connections with the power switched on.
- Connect the DVD player directly to your TV, instead of e.g. a VCR, to avoid distortion because DVD video discs are copy protected.
- Do not connect the DVD player **AUDIO OUT** to **PHONO IN** of your amplifier or receiver.

Connecting to Optional Equipment

- A digital component with a built-in MPEG 2 or Dolby Digital™ decoder allows you to enjoy the surround sound while producing the effect of being in a movie theater or a concert hall.
- The player outputs the surround sound signals from the DIGITAL OUT COAXIAL connectors.

If your receiver has a **MPEG 2 or Dolby Digital™ decoder**

- 1 Connect the COAXIAL DIGITAL AUDIO OUT of the DVD player to the COAXIAL DIGITAL AUDIO IN on your receiver.



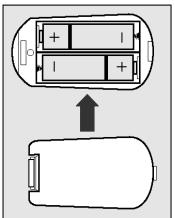
Notes:

- If the audio format of the digital output does not match the capabilities of your receiver, the receiver will produce a distorted sound or no sound at all.
- To see the selected audio format of the current DVD in the Setup Menu, refer to "Setup Menu".

Preparation

English

Inserting batteries into the Remote Control

- 1 Open the battery cover by pressing in the tab, then lift off the cover.
 - 2 Insert batteries with the correct polarity as indicated by the + and - symbols inside the battery compartment.
 - 3 Close the cover.
- 
- CAUTION!**
- Remove batteries if they are exhausted or not to be used for a long time.
 - Do not use old and new or different types of batteries in combination.
 - Batteries contain chemical substances, so they should be disposed off properly and kept away from children.

Smart Power On/Off

When in STOP or NO DISC mode, the DVD player will switch to standby mode after 15 minutes without any operations for saving energy. It is easily reactivated by pressing the POWER or PLAY key on the remote control or the STANDBY/ON button on the front panel.

Using the Remote Control

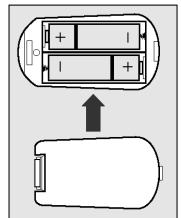
- Direct the remote control at the remote sensor of the DVD player.
- Do not drop or give the remote control a shock.
- Do not leave the remote control in extremely hot or humid places.
- Do not spill water or put anything wet on the remote control.

Operation

English

Switching On

- 1 Be sure that the DVD player has been correctly connected to the TV and audio equipment.
 - 2 Switch on the TV and DVD player.
 - 3 Set the TV to the correct Video In channel (e.g. EX1, EX2, AV1, AV2, AUDIO/VIDEO, etc.). Please refer to your TV owner's manual for details.)
 - 4 The player display lights and the default screen appears on the TV.
- If you are using an external equipment (e.g. audio system or receiver), turn it on and select the appropriate input source for the DVD player output. Refer to the equipment owner's manual for detail.



Basic Playback

- 1 Press STANDBY/ON on the front panel to turn on the DVD player.
 - 2 Press OPEN/CLOSE on the front panel to open disc loading tray.
 - 3 Place the chosen disc in the tray, with the label facing up.
 - 4 Press OPEN/CLOSE again to close the tray.
→ After recognizing the disc, the player begins to playback automatically.
- 

- Slow Motion**
- DVD**
- 1 To get a slow motion effect during playback, press ▲ or ▼.
 - 2 Press ▲ or ▼ again, you can get different playback forward/backward speeds.
 - 3 Press PLAY to return to normal play back.
- VCD** **SCD**
- 1 To get a slow motion effect during playback, press ▲ or ▼ again, you can get different playback forward speeds.
 - 2 Press ▲ or ▼ again, you can get different playback forward speeds.
 - 3 Press the PLAY key to return to normal play back.
- NOTE:**
- The SLOW BACKWARD function is not available for Super VCD/CD/CD discs.

Audio control during playback

- MUTE** **DVD** **VCD** **CD** **SCD**
- 1 Press the MUTE key to disable the sound output.
 - 2 Press the MUTE key again to deactivate mute.
- Audio channel selection**
- VCD** **CD** **SCD**
- 1 Super VCD has two stereo audio channels which are used for playing karaoke or the audio language selection. (for instance, you can choose one channel for only the music background of the song while you play the karaoke.)
 - 2 Press the AUDIO key on the remote control to select the audio channels you want.
 - 3 VCD has only one stereo audio channel you can select STEREO, LEFT MONO, RIGHT MONO or MIX-MONO by pressing the AUDIO key on the remote control.
→ STEREO: Output the left and right audio channels of the disc through the left and right audio sockets accordingly.
→ LEFT MONO: Output the left audio channels of the disc through the left and right audio sockets.
→ RIGHT MONO: Output the right audio channels of the disc through the left and right audio sockets.

General Operation

- Note: All instructions set out below refer to the remote control, unless otherwise stated.**
- Video control during playback**
- STOP/PLAY** **DVD** **VCD** **CD** **SCD**
- 1 If you press the STOP key once, you can later resume from the point at which you stopped by pressing the PLAY key. The player will start from the beginning of the disc if you pressed the STOP key twice.

- PAUSE/STEP** **DVD** **VCD** **CD** **SCD**
- 1 To get a still picture, press PAUSE key during playback.
 - 2 To step forward to the next frame picture, press PAUSE key again.
 - 3 To resume normal playback, press PLAY.
- SEARCH** **DVD** **VCD** **CD** **SCD**
- 1 To search the contents in fast speed, press the ▶ or ▷ for fast forward/backward searching.
 - 2 Press the ▶ or ▷ again to increase the speed for searching.
 - 3 Press PLAY to return to normal playback.

- Note: If you choose digital audio output and set DIGITAL OUTPUT to ALL, you can not select LEFT MONO and RIGHT MONO with the AUDIO key.**

Operation

English

OSD (On-Screen Display)

DVD VCD SVCD

This function will provide some information about your playing disc on the screen.

- Press DISPLAY key on the remote control.
- To repeat the current chapter, press REPEAT a second time.
- To repeat the whole disc, press REPEAT a third time.
- To exit REPEAT mode, press REPEAT again.

VCD CD

Repeat track/disc

With PBC OFF:

- To repeat the current track, press REPEAT.
- To repeat the entire disc, press REPEAT a second time.
- To exit Repeat mode, press REPEAT again.

Time Search

DVD VCD CD

For DVD discs:
→ CC refers to the elapsed time of the current chapter; CR refers to the remaining time of the current chapter; TC refers to the elapsed time of the current title; TR refers to the remaining time of the current title.

For Super-VCD or VCD disc:
→ DC refers to the elapsed time of the current disc; DR refers to the remaining time of the current track; TR refers to the remaining time of the current track.

Press ▲ to make the selection.
● Press the ▲▼ keys to highlight the item TIME and you can play from any point of the disc.
→ Enter hours, minutes and seconds from left to right in the time-edit box using remote control numerical key pad (e.g. 0:34:27)
→ Press the OK key to confirm.

5 Disc Resume

DVD VCD CD

This player can resume playback of the last 5 discs, even if the disc was ejected or the power switched off.

- 1 Load one disc, which is one of the last 5 discs.
- 2 Press PLAY when DVD player is recognizing the disc. If the information of this disc has been stored in the memory of DVD player, it will be played back from the stop point last time.

Zoom

DVD VCD SVCD

The ZOOM function allows you to change the image size.

Press the ZOOM key to activate the function.
→ Use the ▲▼◀▶ key to view other parts of the zoomed picture.
→ Playback will continue.
→ Press the ZOOM key repeatedly to return to the original size.

NOTE: This function is NOT available for some DVD discs.

Operation

English

Special DVD Features

DVD

A DVD disc may have one or more titles. This depends on the content (a movie, video clips, a drama series, etc.) on the disc.

- After you load a disc, information about the content shows on the screen waiting for your selection. You can also press the TITLE key on the remote control to turn back to the title menu during playback.
- Press the appropriate numerical key or ▲▼◀▶ keys on the remote control to highlight your selection.
- Press the OK key to confirm.

Playing a Chapter

DVD

When you have selected a title, it may include one or more chapters.

- Any time you want to watch another chapter during playback, press DISC MENU key to turn back to the chapter menu (if disc has chapter menu).
- Press the appropriate numerical key or ▲▼◀▶ keys on the remote control to highlight your selection.
- Press the OK key to confirm.

After a chapter has been selected, you also can press the ▲▼◀▶ key to make a change.

Camera Angle

DVD

Some discs contain scenes which have been shot simultaneously from various angles. This DVD player allows you to select the desired camera angle.

Press the ANGLE key on your remote control.

NOTE: The function is available only for the DVD discs which have several angles recorded.

Changing the Audio Language

DVD

Press AUDIO repeatedly to select the different languages.

NOTE: The function will be activated only if the DVD is recorded with multi-language audio tracks.

Subtitles

DVD SVCD

Press SUBTITLE repeatedly to select the different subtitles.

- Press SUBTITLE for about 2 seconds to switch subtitle on or off.

NOTE: The function will be activated only if the DVD or Super VCD is recorded with multi-subtitles.

Special VCD & SVCD Features

PBC

PBC function allows you to enter the index menu which is used to select a track after loading the VCD & SVCD disc.

- If you want to activate the function during playback or after pressing the STOP key twice,

press the DISC MENU key on the remote control to set the PBC On.

→ Pay attention to the hint on the screen.

- Use the ▲▼◀▶ key to select the page you like.

→ If the items of the index menus are numbered, press the appropriate numerical key on the remote control.

- → press the OK key to confirm.

→ Press the RETURN key to enter the index menu during the playback.

Note:

- The content of the index menu depends on the disc. Please refer to the disc's instructions for details.

- If the disc doesn't include the PBC information, this function will have no effect.

- If you want to skip the index menu and playback directly from the beginning, press the DISC MENU key on the remote control to switch off the function.

1 Changing the Audio Language

DVD

Press AUDIO repeatedly to select the different languages.

NOTE: The function will be activated only if the DVD is recorded with multi-language audio tracks.

Operation

Picture CD & MP3 Playback

English

English

2 Disc Interval

This function is used to divide a disc into six parts by regular intervals and display them on one page to help you preview the whole disc.



- Press the PREVIEW key to enter previewing menu.
- Press ▲▼ key to highlight TRACK DIGEST, DISC INTERVAL or TRACK INTERVAL.
- Press OK key to open one option.
- After you enter the menu of any digest type, → To quit preview function: Press ▲▼→ to highlight EXIT and press OK to confirm.
- To return to the previewing menu for selecting the other digest type: Press ▲▼→ to highlight MENU and press OK to confirm.

3 Track Digest

This function will minimize the picture of every track in order to display every six of these tracks on the screen to help you know the content of every track on the disc.



- To choose the desired track, please press ▲▼→ to highlight the second line and input your numerical selection next to "SELECT".
- Press the OK key to confirm.

- To choose the desired track, please press ▲▼→ to highlight the second line and input your selected track number next to "SELECT".
- Select the others from the current six by pressing the ▲▼ or ▶▶ key to open the previous or next page.
- Press the OK key to confirm.

General Operation

This player can playback JPEG format pictures and MP3 files on a personally recorded CD-R/RW disc or commercial CD, and is compatible with Kodak Picture CD.

- Playback pictures or songs one by one automatically.
- Album and track selection.
- Repeat disc / album / track / picture).

- Select any music or pictures from the disc to playback them together.
- Maximum number of files within one folder is 500
- Maximum files Programmable is 100.
- MP3: Maximum supported Bitrate is 256kbps or 48kbps+ in Variable Bitrate mode.
- JPEG: Maximum supported resolution is 3072 × 2048 (for baseline JPEG pictures), or 2000 × 1500 (for progressive JPEG pictures).

Play Mode

Auto Playback

If you choose WITHOUT MENU, the DVD player will automatically playback Picture CD/MP3 CD in sequence when it is loaded.

Playback Selection

- One way is to press the number of your favourite file at any time during playback.
- Another way is to select via the menu (after pressing STOP).
- Press DISC MENU to open the Picture CD/MP3 CD menu.
- When the menu appears on the screen, press the ▲▼ key to select the folder you want and press the OK to open it.
- Press the ▶▶ to enter the file list.

Playback

- If you choose WITH MENU in the Setup Menu (Please refer to the MP3 & JPEG navigator below), the Picture CD/MP3 CD menu will be shown on the screen before playback.



- At any time during playback, press DISC MENU to return to the menu for Selection/Repeat / Shuffle / Single playback.
- Both columns on every page of the menu contain six files or folders, you can press ▲▼ to highlight either of the column and then press ▶▶ or ▶▶ to open the next or previous six files or folders.

MP3 & JPEG Navigator

To select a different playback method, follow the steps below.

- At STOP mode, press the SYSTEM MENU key to open the setup menu.
- Press the ▲▼ key to highlight PREFERENCE.
- Press OK to open the PREFERENCE menu.
- Press the ▲▼ key to highlight the MP3/JPEG NAV menu.
- Press the ▶▶ key to enter the menu.
- Press the ▲▼ key to highlight the WITHOUT MENU or WITH MENU item.
- WITHOUT MENU: automatically playback all files in according date sequence.
- WITH MENU: playback files in the selected folder.

Program Playback

- When the Picture CD/MP3 CD menu is shown on the screen. Press DISC MENU key.
- The left column is the original files and the right one is the programmed files.

Repeat / Shuffle / Single Playback

- When the Picture CD/MP3 CD menu is shown on the screen. Press REPEAT key repeatedly, the selected song plays repeatedly.
- REPEAT FOLDER : All files in the folder play repeatedly.
- SHUFFLE : All files are played randomly.
- If you press REPEAT KEY during playback, the option will be displayed on the screen accordingly.

Press the ▲▼ to select one file.

- You also can press ▶▶ or ▶▶ to open the next six files to choose.

Picture CD & MP3 Playback

Setup Menu

English

Playback with multi-angles

- When displaying one picture on TV screen
→ The maximum is 100 files.
- Press STOP key to remove the programmed file from the right column.
- Highlight one file of the right column and press OK key, then the programmed files will start playing back.

Special JPEG Features

- Function Introduction**
- Picture CD is a disc with a collection of JPEG format pictures, and all extension filenames should end with ".JPG". The CD can be recorded on any computer, and pictures may be from digital camera or scanner; if the customers prefer, they can make this CD become a Digital Album.

You can choose any general function introduced in GENERAL OPERATION, besides, you also can, Display the thumbnails of 12 pictures, Zoom the picture, Rotate the picture, Flip the picture vertically or horizontally, Scan pictures by different effects.

- Special MP3 Features**
- "MP3" stands for "MPEG-Audio Layer-3", and is a part of the MPEG standard. A CD can store up to 10 hours of MP3 audio, which is nearly 10 times as much as an Audio CD. Each song is recorded as a file. You can choose any general function introduced in GENERAL OPERATION. You can also choose different playback speeds.

Playback Speed Control

- Press RETURN/TITLE key to switch to MP3+NAV mode.

- Press ▲ or ▼ to change the backward/forward speeds.
- You also can press ▶▶ or ▶◀ to change the tracks.

JPEG and MP3 simultaneous playback

- Firstly playback MP3 music according to the instructions introduced in playback Selection.
- Please switch to MP3+JPEG+NAV by pressing RETURN/TITLE.
- Then select a picture to playback. Please refer to the instructions introduced in playback Selection.
→ Now the pictures will be played back in sequence together with MP3 music.
- To quit simultaneous playback, press DISC MENU key to return to the Picture CD/MP3, CD menu, then pictures will be stopped. After that, press STOP key, then MP3 music will be stopped as well.

Note: In the function of JPEG and MP3 Simultaneous Playback, ▶▶ and ▶◀ keys are invalid for MP3.

Setup Menu

English

Program (not for Picture CD/MP3)

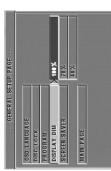
- | | |
|----|---|
| 1 | Press SYSTEM MENU in the STOP mode to enter the Setup Menu. |
| 2 | Press the OK key to go to the next level submenu or confirm your selection. |
| 3 | Press the ▲▼ keys to enter the submenu or return to the previous menu. |
| 4 | Press the ▲▼ keys to highlight the desired menu. Press SYSTEM MENU to quit the setup menu.
→ When you quit the setup menu, the settings will be stored in the player's memory even if the player is switched to power off. |
| 5 | Input your favorite track |
| 6 | Some settings need to be made in this menu. They are: DISC LOCK, PROGRAM, DISPLAY DIM, OSD LANGUAGE and SCREEN SAVER. Follow the steps below: |
| 7 | General Setup menu |
| 8 | 1 Press the SYSTEM MENU key to enter the setup menu.
2 Press the ▲▼ keys to choose the GENERAL SETUP.
3 Press the OK key to confirm selection. |
| 9 | Playback tracks |
| 10 | 1 When programming is completed, Press the ▲▼ keys to move the cursor to the START button.
2 DVD player will playback the selected tracks under the programmed sequence. |
| 11 | OSD language |
| 12 | This option is to select a language for information displayed on TV screen. |
| 13 | 1 Press the ▲▼ keys to highlight OSD LANGUAGE in the GENERAL SETUP menu.
2 Enter its submenu by pressing the ▲ key.
3 Move the cursor by pressing the ▲▼ keys to highlight the selected language.
4 Press the OK key to confirm.
5 Press the ▲ key to return to the GENERAL SETUP menu. |

Setup Menu

English

English

- Quit the program playback**
- In the PROGRAM menu,
- Press the **◀ ▶ ▷** keys to move the cursor to the EXIT button.
 - Press the OK key to quit this menu.
- Stop the program playback**
- During playback of the programmed tracks, press STOP key. Then after you press PLAY key, the DVD player will resume normal playback.
- Repeat the program playback**
- During playback of the programmed tracks, press the REPEAT key. The programmed tracks can be played again.

- Display Dim**
- This function is used to adjust the brightness of display on the front panel of the DVD player:
- 
- Press the **◀ ▶** keys to highlight DISPLAY DIM in the GENERAL SETUP menu.
 - Enter its submenu by pressing the **▶** key.
 - Press the **◀ ▶** keys to highlight 100%/70%/40% item.
 - Press OK to confirm.
 - Press the **◀** key to return to the GENERAL SETUP menu.

- Disc Lock**
- When the disc is locked, the player will store its specific code into the memory for future identification. For the next playback, the DVD player will prompt you to enter the password. Then, press OK to load the disc.
- 

Setup Menu

English

- NOTE**
- When a locked disc is loading, the DVD player will prompt you to enter your password (842100) as the default password.
 - To change the password, refer to the option PASSWORD in the PREFERENCE SETUP menu.
- Screen Saver**
- This function is used to turn the screen saver on or off.
- 
- Press the **◀ ▶** keys to highlight SCREEN SAVER in the GENERAL SETUP menu.
 - Enter its submenu by pressing the **▶** key.
 - Move the cursor by pressing the **◀ ▶** keys to highlight the selected item.
 - ON: This option should be used only if your DVD player is connected to a Dolby Prologic decoder.
 - STEREO: This option will downmix Dolby Digital signals directly into analogue stereo from L/R sockets.
 - Press OK.
 - Press the **◀** key to return to the ANALOG OUTPUT SETUP menu.

- DISPLAY DIM**
- 1 Press the **◀ ▶** keys to highlight DISPLAY DIM in the GENERAL SETUP menu.
- 2 Enter its submenu by pressing the **▶** key.
- 3 Move the cursor by pressing the **◀ ▶** keys to highlight the selected item.
- 4 ON: In STOP or NO DISC mode, if no actions are performed within 5~6 minutes, the screen saver will be activated.
- 5 OFF: Screen saver is disabled.
- 6 Press OK to confirm.
- 7 Press the **◀** key to return to the GENERAL SETUP menu.

Digital Audio Setup menu

This menu contains setup options for your analog audio output, such as DOWNMIX, D.R.C. (Dynamic Range Compression) etc., which makes the DVD player reproduce high quality surround sound.



- NOTE**
- The DVD player will compress the dynamic range of its sound output for late-night listening.
- Press the **◀ ▶** keys to highlight D.R.C..
 - Enter its submenu by pressing the **▶** key.
 - Move the cursor by pressing the **◀ ▶** keys to highlight the selected item.
 - ON: Enable D.R.C.
 - OFF: Disable D.R.C.

- 1 Press SYSTEM MENU.
- 2 Press the **◀ ▶** keys to highlight the ANALOG OUTPUT SETUP.
- 3 Press OK to confirm.

DOWNMIX



Digital Audio Setup menu

In this menu, you can set up the digital audio output signal from the digital terminals, such as coaxial etc.



- 1 Press SYSTEM MENU to enter the SETUP menu.
- 2 Press the **◀** key to choose the DIGITAL OUTPUT SETUP.
- 3 Press OK.

Setup Menu

English

Digital Output

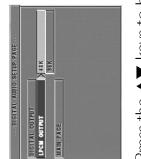
LPCM Output
If you connect the DVD player to a PCM compatible receiver via the digital terminals such as coaxial etc, you may need to select LPCM OUTPUT.

Discs are recorded at a certain sampling rate. The higher the sampling rate, the better the sound quality.



- Press the **▲▼** keys to highlight DIGITAL OUTPUT.
- Enter its submenu by pressing the **▶** key.
- Press the **▲▼** keys to highlight the selected item.
- ALL: Original digital signal is output.
- PCM ONLY: If your receiver is PCM-compatible, or your receiver can not decode MPEG 2, Dolby Digital, or DTS audio, choose this option.
- Press OK.
- Press the **◀** key and return to the DIGITAL OUTPUT SETUP menu.

Note: If DIGITAL OUTPUT is set to ALL, all audio settings except MUTE are invalid.



- Press the **▲▼** keys to highlight the TV TYPE.
- Before viewing the DVD or VCD, ensure that the PAL or NTSC setting of the system matches your TV set.
- LETTERBOX: when you connect a normal TV to the DVD player. Displays a wide picture with bands displayed on the upper and lower portions of the TV screen.
- PAN SCAN: when you connect a normal TV to the DVD player. Displays the wide picture on the whole TV screen with a portion automatically cut off.

- Press the **◀** key to return to the VIDEO SETUP menu.
- Press the **▶** key to highlight the TV TYPE in the VIDEO SETUP menu.
- Enter its submenu by pressing the **▶** key.
- Move the cursor by pressing the **▲▼** keys to highlight one option.
- Press OK.
- Press the **◀** key to return to the DIGITAL OUTPUT SETUP menu.

TV Type
Before viewing the DVD or VCD, ensure that the PAL or NTSC setting of the system matches your TV set.



- Press the **◀** key to return to the VIDEO SETUP menu.
- Press the **▶** keys to highlight the TV DISPLAY option in the VIDEO SETUP menu.
- Enter its submenu by pressing the **▶** key.
- Move the cursor by pressing the **▲▼** keys to highlight the selected item.
- Press OK.
- Press the **◀** key to return to the VIDEO SETUP menu.

Setup the item as follows,

- Press the **◀** keys to highlight the TV DISPLAY option in the VIDEO SETUP menu.
- Enter its submenu by pressing the **▶** key.
- Move the cursor by pressing the **▲▼** keys to highlight the selected item.
- Press OK.
- Press the **◀** key to return to the VIDEO SETUP menu.

Note : PanScan output is not available on all discs.

Disc	Type	Format	Output format:	
			Selected mode	MULTI
DVD	NTSC	NTSC	NTSC	PAL NTS
VCD	NTSC	NTSC	NTSC	PAL NTS
	PAL	NTSC	PAL	PAL

Notes:

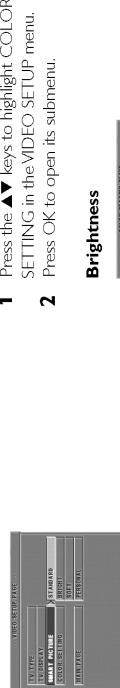
- MULTI can only be selected when using a TV that has both the NTSC and PAL systems.
- If you have a multi-standard TV (PAL/NTSC), use the MULTI setting to obtain the best picture quality.

Setup Menu

English

Color Setting

In this menu you can choose a picture setting from a fixed set of ideal predefined picture settings.



- 1 Press the **▲▼** keys to highlight SMART PICTURE in the VIDEO SETUP menu.
- 2 Press the **▶** key to highlight the item of the submenu.
- 3 Press the **▲▼** keys to choose an item.
- 4 → STANDARD: select a standard picture setting.
→ BRIGHT: make the TV picture brighter
→ SOFT: make the TV picture softer.
→ PERSONAL: achieve the color effect set in the COLOR SETTING menu.
- 5 Press OK.
- 6 Press **◀** key to return to the VIDEO SETUP menu.



- 1 Press the **▲▼** keys to highlight BRIGHTNESS in the COLOR SETTING menu.
- 2 Press the **▶** key to open the level bar.
→ Display at the bottom of the screen.
- 3 Press the **▲▼** keys to increase and decrease the brightness level.
- 4 Press the **▲▼** or OK key to return to the COLOR SETTING menu.



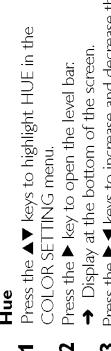
- 1 Press the **▲▼** keys to highlight SATURATION in the COLOR SETTING menu.
- 2 Press the **▶** key to open the level bar.
→ Display at the bottom of the screen.
- 3 Press the **▲▼** keys to increase and decrease the saturation level.
- 4 Press the **▲▼** or OK key to return to the COLOR SETTING menu.

Picture Quality

In this menu you can personalize the picture color by adjusting brightness, contrast, hue and saturation.



- 1 Press the **▲▼** keys to highlight BRIGHTNESS in the COLOR SETTING menu.
- 2 Press the **▶** key to open the level bar.
→ Display at the bottom of the screen.
- 3 Press the **▲▼** keys to increase and decrease the brightness level.
- 4 Press the **▲▼** or OK key to return to the COLOR SETTING menu.



- 1 Press the **▲▼** keys to highlight CONTRAST in the COLOR SETTING menu.
- 2 Press the **▶** key to open the level bar:
→ Display at the bottom of the screen.
- 3 Press the **▲▼** keys to increase and decrease the contrast level.
- 4 Press the **▲▼** or OK key to return to the COLOR SETTING menu.

Preference Setup menu

There are options included in PREFERENCE menu such as AUDIO, SUBTITLE, DISC MENU, PARENTAL, PASSWORD, DEFAULT and MP3/JPEG NAV.



- 1 Press the **▶** key twice.
- 2 Press the **▶** key to enter the menu.
- 3 Highlight the PREFERENCE SETUP by pressing the **▲▼** keys.
- 4 Press OK to confirm your selection.

Audio language

DVD discs are available with multiple audio languages. Use this option to select the preferred default audio language.



- 1 Press the **▶** keys to highlight AUDIO.
- 2 Enter the submenu by pressing the **▶** key.
- 3 Move the cursor by pressing the **▲▼** keys to highlight the selected option.
- 4 Press OK.
- 5 Press the **◀** key to return to the PREFERENCE menu.

NOTE: Your DVD disc may not include the audio language which you set in the AUDIO menu. If so, the player will use another audio language instead.

Setup Menu

English

If you choose OTHERS in AUDIO, SUBTITLE or DISC MENU menu,

You can select other languages. Please do as follows.
1 Move the cursor by pressing the **▲▼** keys to highlight OTHERS.



- 2** Press OK.
- The DVD player will prompt you to enter a language code (Four digits).
- 3** Input a language code by pressing numerical keys.
- Please look up the preferred language code in the chapter LANGUAGE CODE, which can be found at the end of this manual.
- 4** Press OK.

Password

This item is used for the parental control and disc lock. Enter your six digit password when a hint is displayed on the screen.



- 1** Press the **▲▼** keys to highlight the PASSWORD option.
- 2** Enter the submenu by pressing the **▶** key.
- 3** Press OK to open the PASSWORD CHANGE page.



- 1** Press the **▲▼** keys to highlight DISC MENU.
- 2** Enter the submenu by pressing the **▶** key.
- 3** Move the cursor by pressing the **▲▼** keys to highlight the selected item.
- 4** Press OK.
- 5** Press **◀** key to return to the PREFERENCE menu.

NOTE: If your DVD disc doesn't include the disc menu language you have set, the player will use another recorded language instead.

- 4** Enter the current 6 digit code.
- If successful the player will prompt for a new one.
- 5** After that, enter the new password again to reconfirm.
- 6** Press the **OK** key to return to the PREFERENCE menu.

- The new 6 digit code will take effect.

NOTE:

1. You can change the setup of parental control and load a locked disc with a valid password being entered.
2. If you forget your password, you can enter the default password 842100.

Parental Control DVD

If problems occur while setting up the DVD player, the DEFAULT function can be used to reset all options to the factory defaults and all your personal settings will be erased.

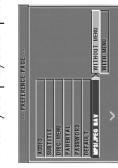


- 1** Press **◀▶** to highlight DEFAULT.
- 2** Highlight RESET by pressing the **▶** key.
- 3** Press OK.

CAUTION: When this function is activated, all setups will be reset to factory defaults.

MP3/JPEG Navigator

This menu allows you to select alternate settings when you playback picture CD and MP3 CD.



- 1** Press **◀▶** to highlight DEFAULT.
- 2** Highlight RESET by pressing the **▶** key.
- 3** Press OK.
- 4** Press OK to confirm your selection.

No Parental Control

Parental Control is not activated. The Disc will be played in full.

- 1** Select ADULT item.
- 2** Press OK.

Ratings 1 to 7:

Some discs contain scenes which are not suitable for children. All scenes with a rating higher than you set will be skipped during playback. However if the disc contains alternate scenes, these will play automatically. If not, the playback will stop and the six digits code will need to be entered again.

- 1** You can change the setup of parental control and load a locked disc with a valid password being entered.
2. If you forget your password, you can enter the default password 842100.

Specifications

PLAYBACK SYSTEM		AUDIO PERFORMANCE	
DVD/Video	24bit	Digital Converter	24bit
Video CD & SVCD	100dB	Signal Noise (1kHz)	>90dB
CD	>9 kHz	Dynamic range (1kHz)	4Hz - 44kHz
PICTURE CD	fs 96 kHz	DVD	4Hz - 24kHz
MP3-CD	fs 48 kHz	SVCD	4Hz - 22kHz
CD-R, CD-RW	fs 48 kHz	CDA/CD	4Hz - 20kHz
DVD+R, DVD+RW	fs 44.1kHz		4Hz - 20kHz
VIDEO PERFORMANCE		TV STANDARD (NTSC/60Hz) (NTSC/50Hz)	
CVBS	1Vpp --- 75Ω 0.7Vpp into 75 ohm	Number of lines	625
RGB (SCART)		Playback	525 (PAL/NTSC)
AUDIO FORMAT	Mpeg/AC-3/ DTS	Connections	
Digital	compressed Digital PCM	Scart Output	Euroconnector
	16, 20, 24 bits	Video Output	Cinch
	fs: 44.1, 48, 96 kHz	Audio Output(L+R)	Cinch
	24, 32, 56, 64, 96, 128,	Digital Output	1 coaxial
	256 kbps & variable		IEC958 for CD/DAT /LPCM/ MPGE1
	bit rate fs: 16, 22, 25,		IEC1937 for MPEG 2, Dolby
	24, 32, 44.1, 48 kHz		Digital and DTS
CABINET	Dimensions (w x d x h)	360 x 285 x 43 mm	
	Weight	Approximately 2.2 Kg	
POWER CONSUMPTION		<1W	
Power consumption in Standby mode		<1W	
Specifications subject to change without prior notice			

Maintenance**Cleaning the Cabinet**

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center out.
- Do not wipe in a circular motion.
- Do not use solvents such as benzine, thinner, commercially available cleaners, or antistatic spray intended for analog records.

Cleaning Discs

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center out.
- Do not use a solution containing alcohol, spirits, ammonia or abrasives.
- Do not use solvents such as benzine, thinner, commercially available cleaners, or antistatic spray intended for analog records.

Troubleshooting

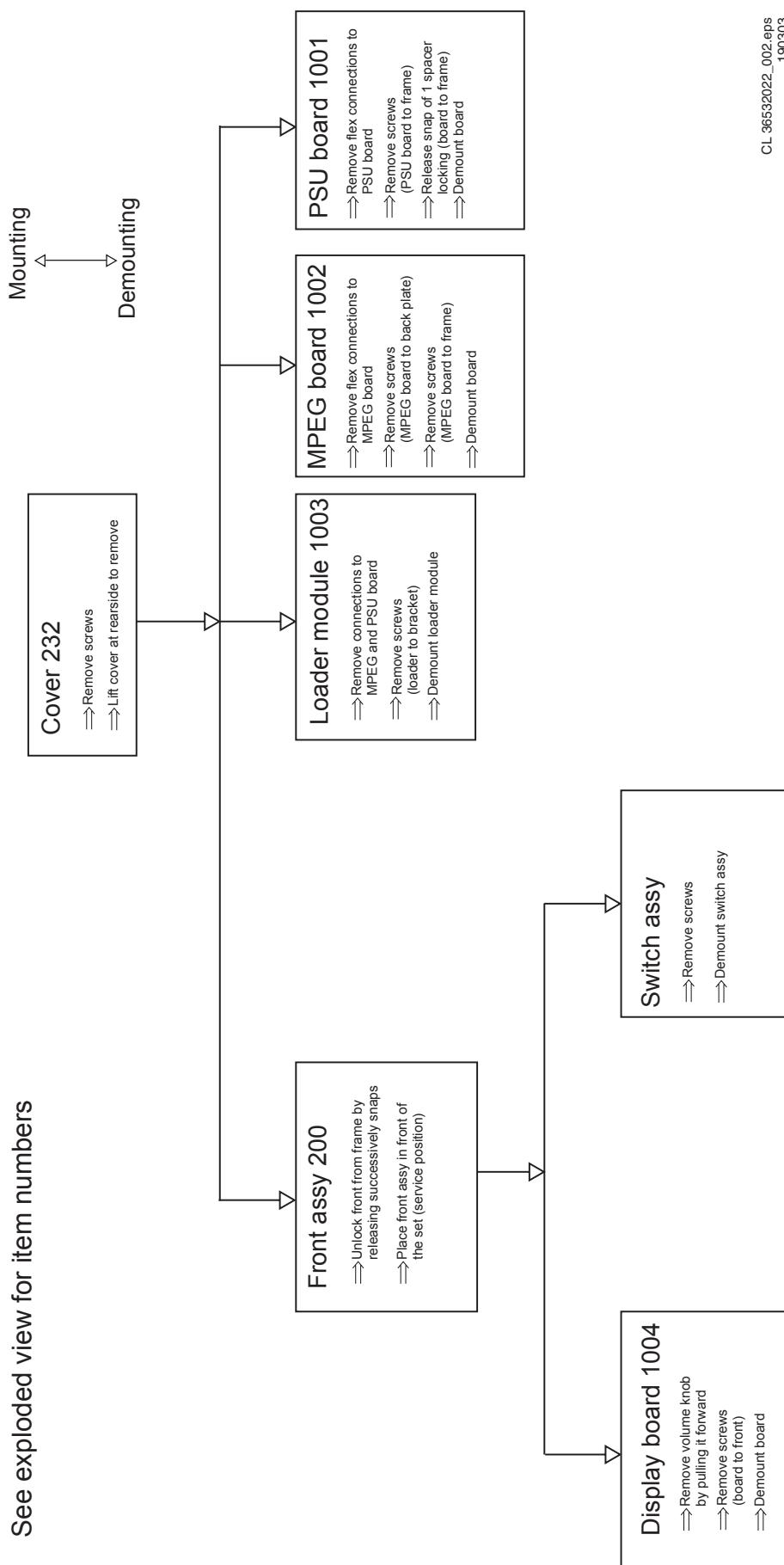
English

Problem	Solution
No power	<ul style="list-style-type: none"> - Check if the AC power cord is properly connected.
No picture	<ul style="list-style-type: none"> - Check if the TV is switched on. - Check the video connection.
Distorted picture	<ul style="list-style-type: none"> - The disc is badly scratched or dirty. - Sometimes a small amount of picture distortion may appear. This is not a malfunction.
Completely distorted picture or black/white picture with DVD or Video CD	<ul style="list-style-type: none"> - Make sure the NTSC/PAL setting at the DVD player matches the video signal of your television. (See NTSC/PAL CONVERSION) - If the picture becomes distorted after switching between PAL and NTSC, please set the SMART PICTURE TO STANDARD.
No sound or distorted sound	<ul style="list-style-type: none"> - Adjust the volume. - Check that the speakers are connected correctly.
No audio at digital output	<ul style="list-style-type: none"> - Check the digital connections. - Check if your receiver can decode MPEG-2 or DTS and if not, please make sure the digital output is set to PCM.
Disc can't be played	<ul style="list-style-type: none"> - Check if the audio format of the selected audio language matches your receiver capabilities. - Ensure the disc label is facing up. - The DVD+R/DVD+RW//CD-R must be finalized.
No return to start-up screen when disc is removed	<ul style="list-style-type: none"> - Reset the unit by switching the player off, then on again.
The player does not respond to the remote control	<ul style="list-style-type: none"> - Aim the remote control directly at the sensor on the front of the player. - Reduce the distance to the player. - Replace the batteries in the remote control. - Insert the batteries with their polarities (+/- signs) as indicated.
Buttons do not work	<ul style="list-style-type: none"> - In order to completely reset the player, unplug the AC cord from the AC outlet. - Operations may not be permitted by the disc. Refer to the instructions of the disc.
Player does not respond to some operating commands during playback	<ul style="list-style-type: none"> - Use a commonly available cleaning CD/DVD to clean the lens before sending the DVD Video player for repair.
DVD Video player cannot read CDs/DVDs	<ul style="list-style-type: none"> - Use a commonly available cleaning CD/DVD to clean the lens before sending the DVD Video player for repair.

4. Dismantling Instructions, and Exploded Views

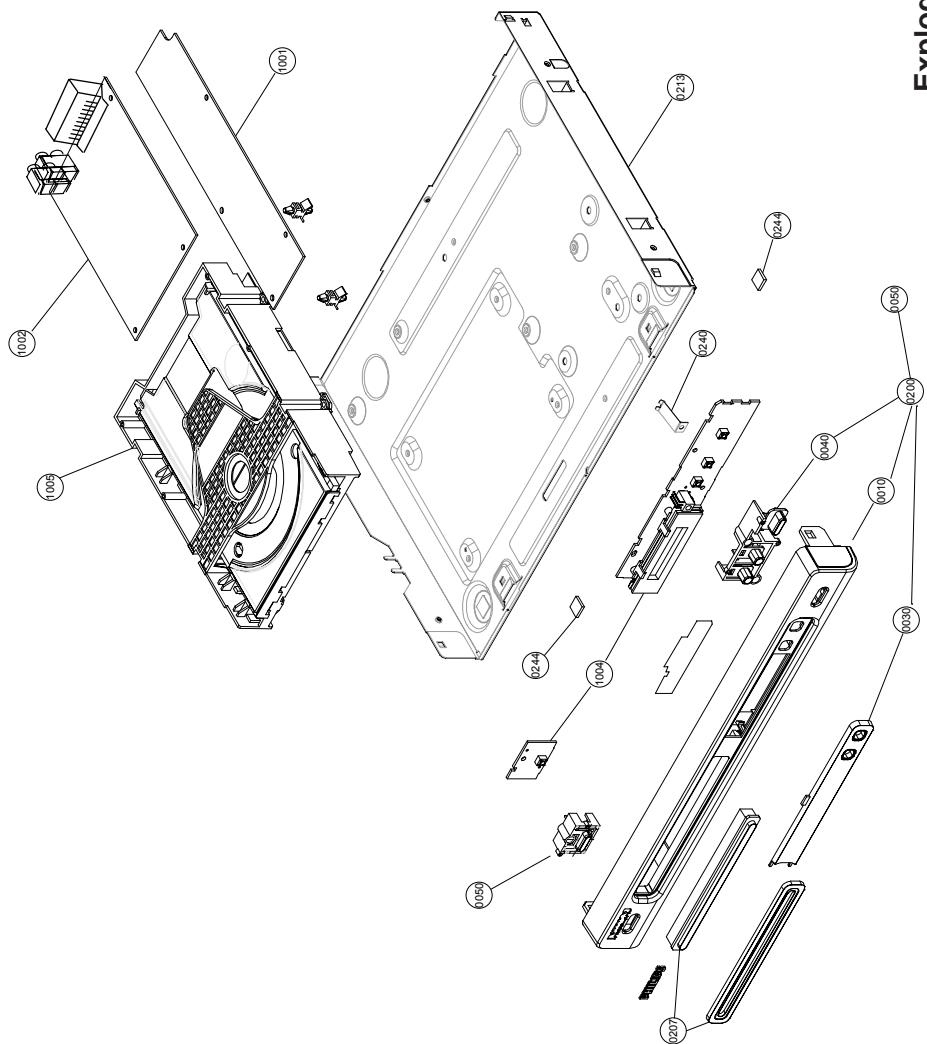
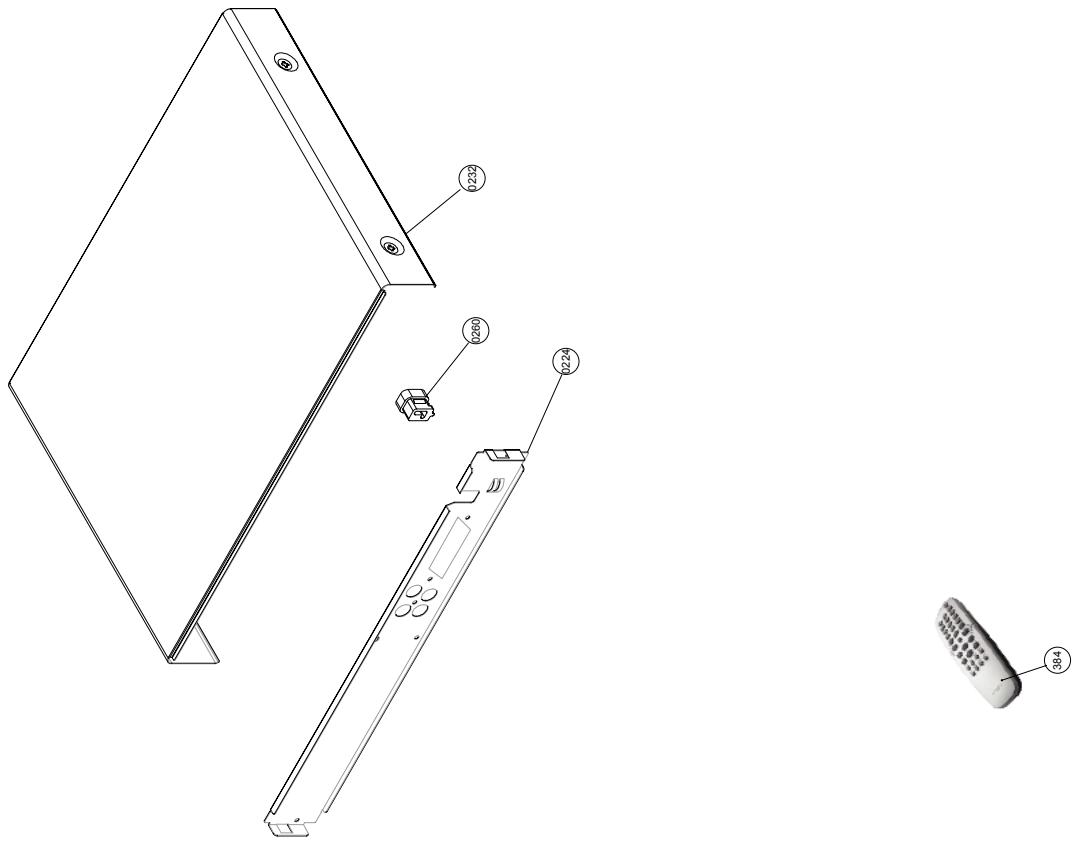
DISMANTLING INSTRUCTIONS DVD625/001/021/051

See exploded view for item numbers



CL 36532022_002.eps
190303

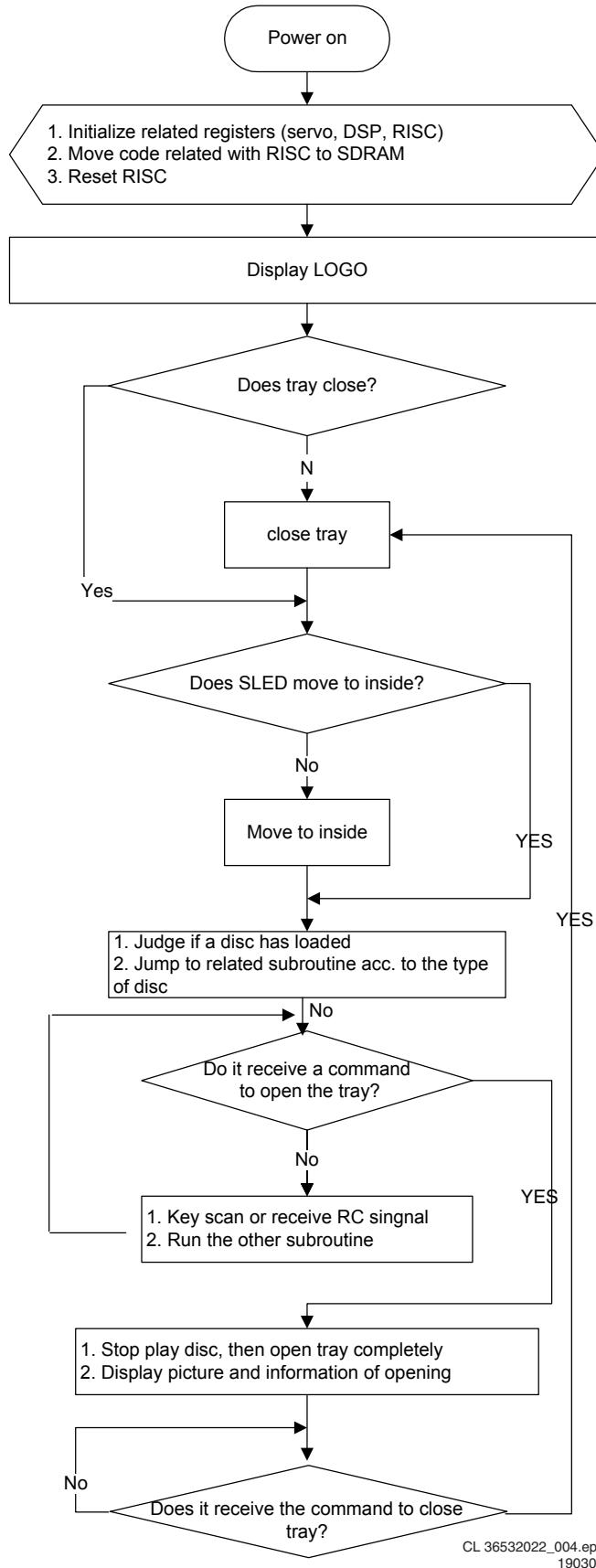
Figure 4-1 Dismantling Instructions

CL 36532/022.003.eps
190303**Exploded View DVD625/001/021/051****Figure 4-2 Exploded View**

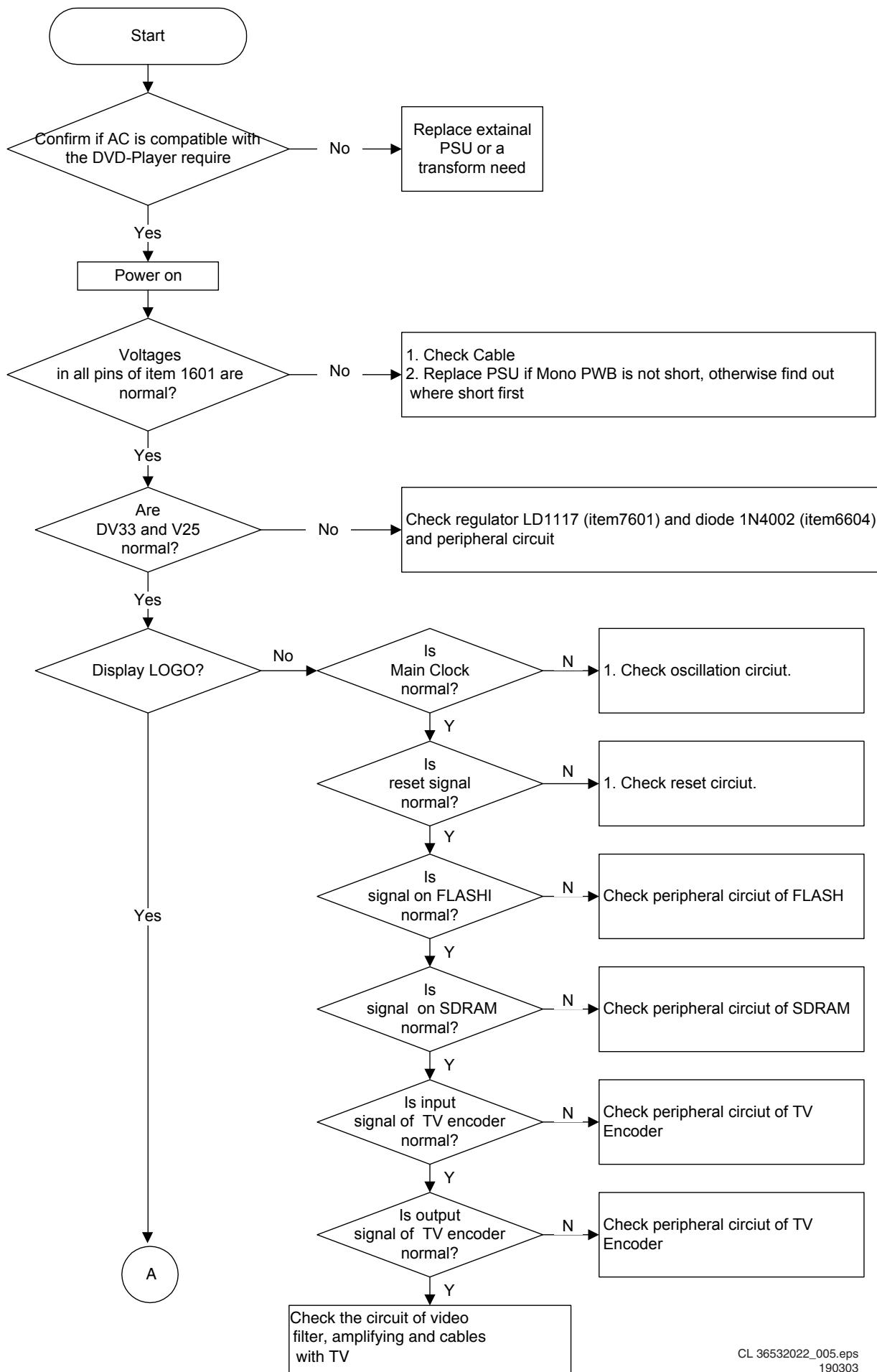
5. Diagnostic Software, Trouble Shooting and Test Instructions

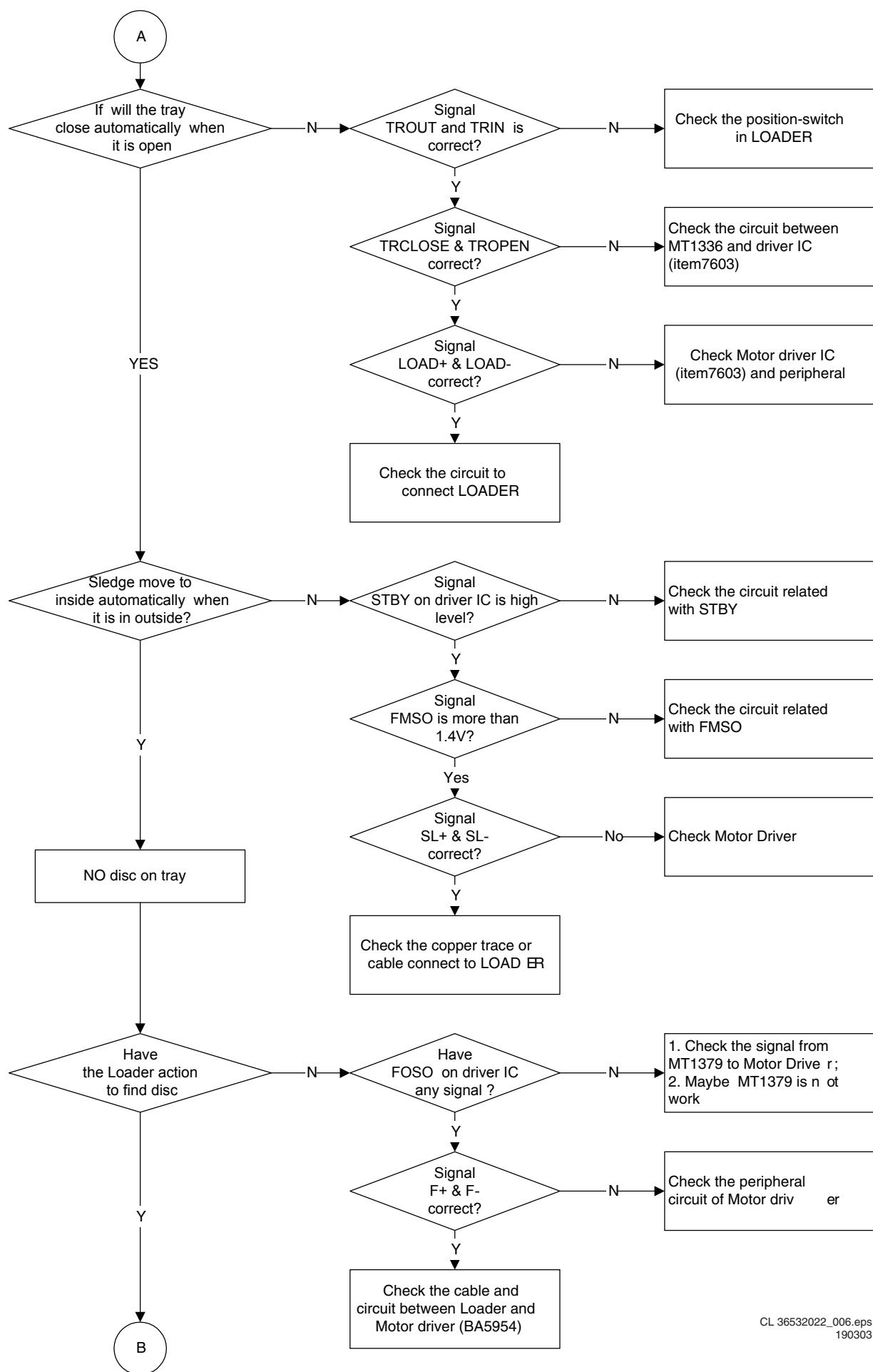
Diagnostic Software reserved. It will be prepared later

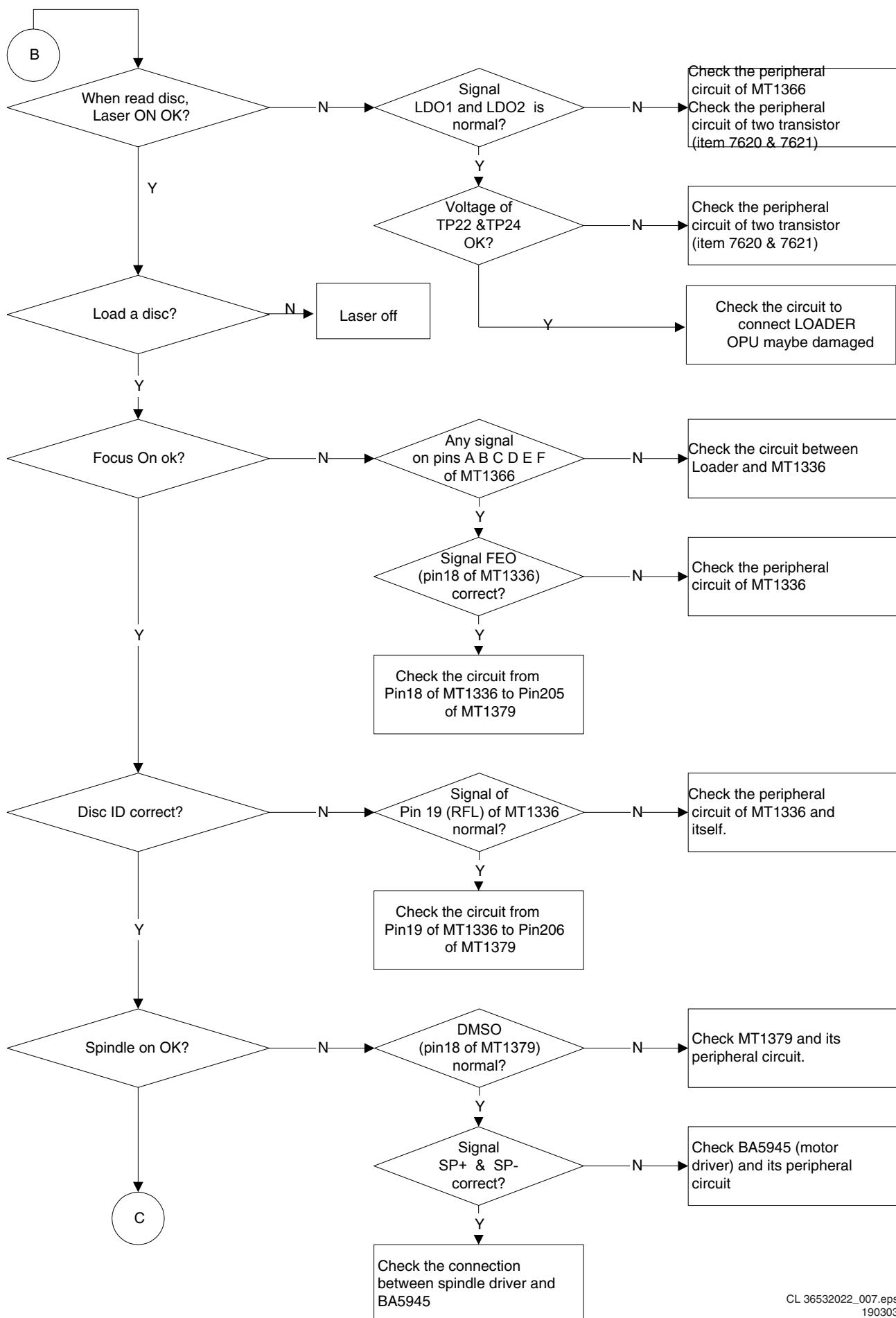
5.1 System working procedure for MediaTeK DVD-Player (MT1379 + MT1366)

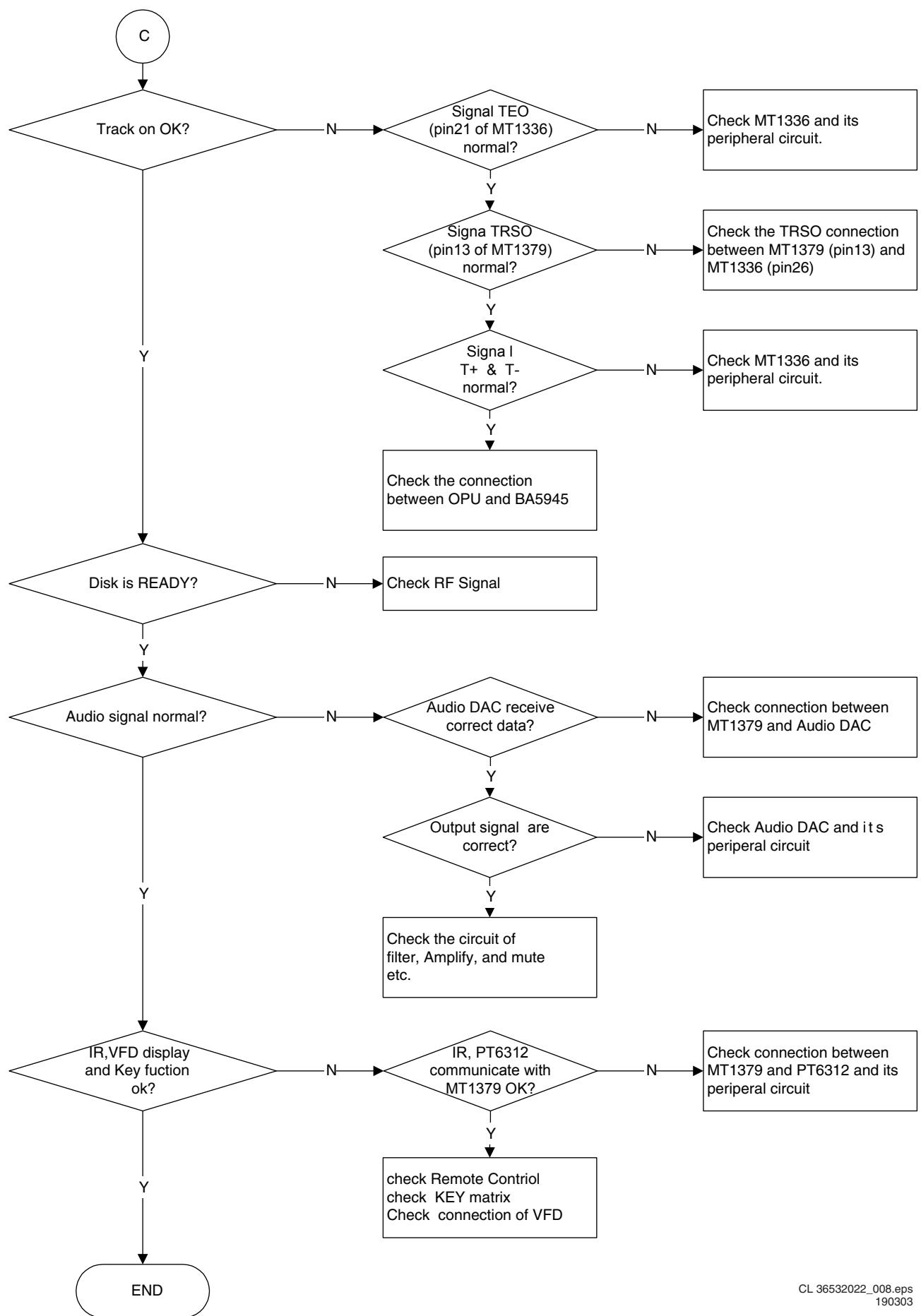


5.2 Maintenance Flow Chart





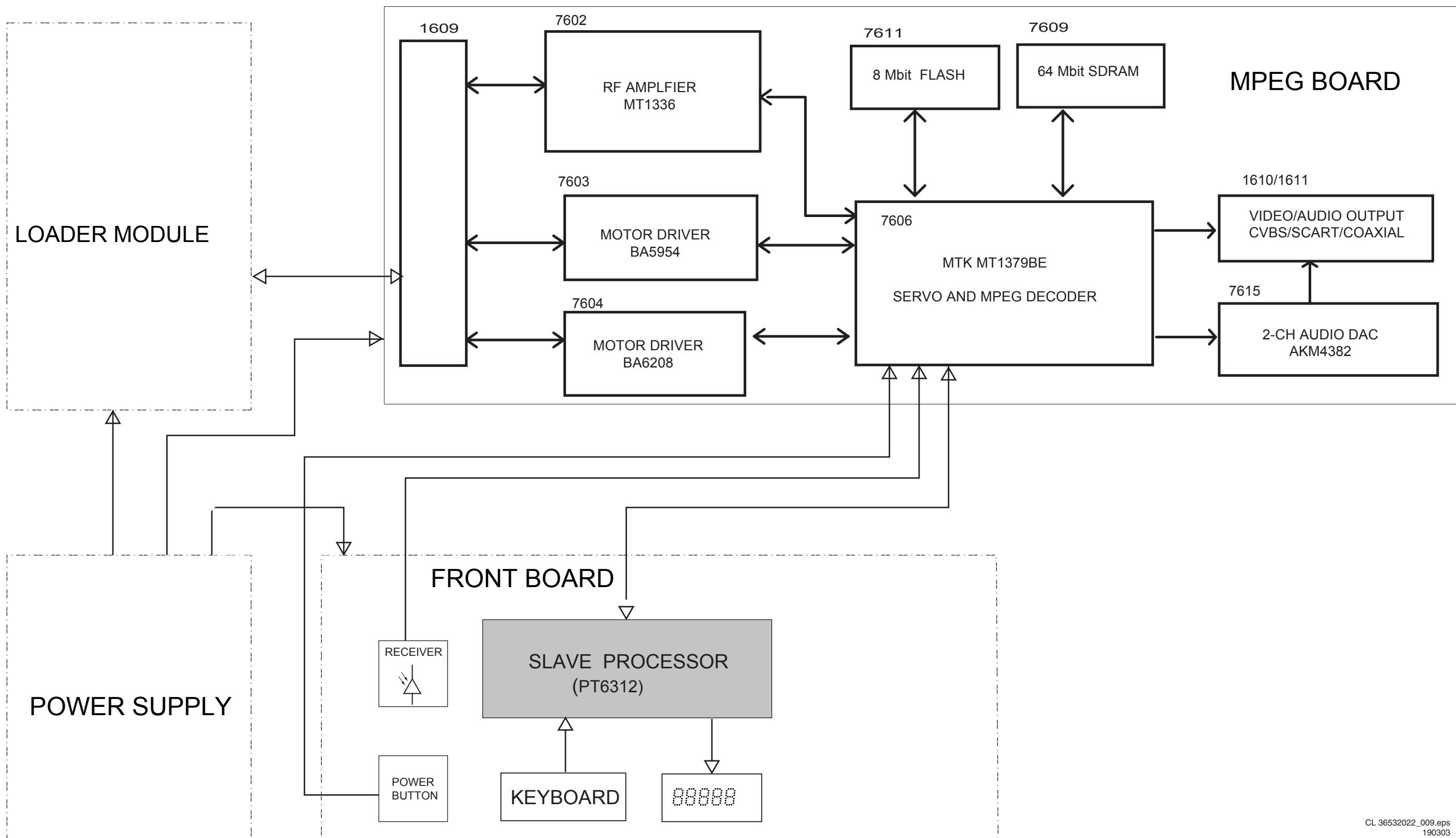


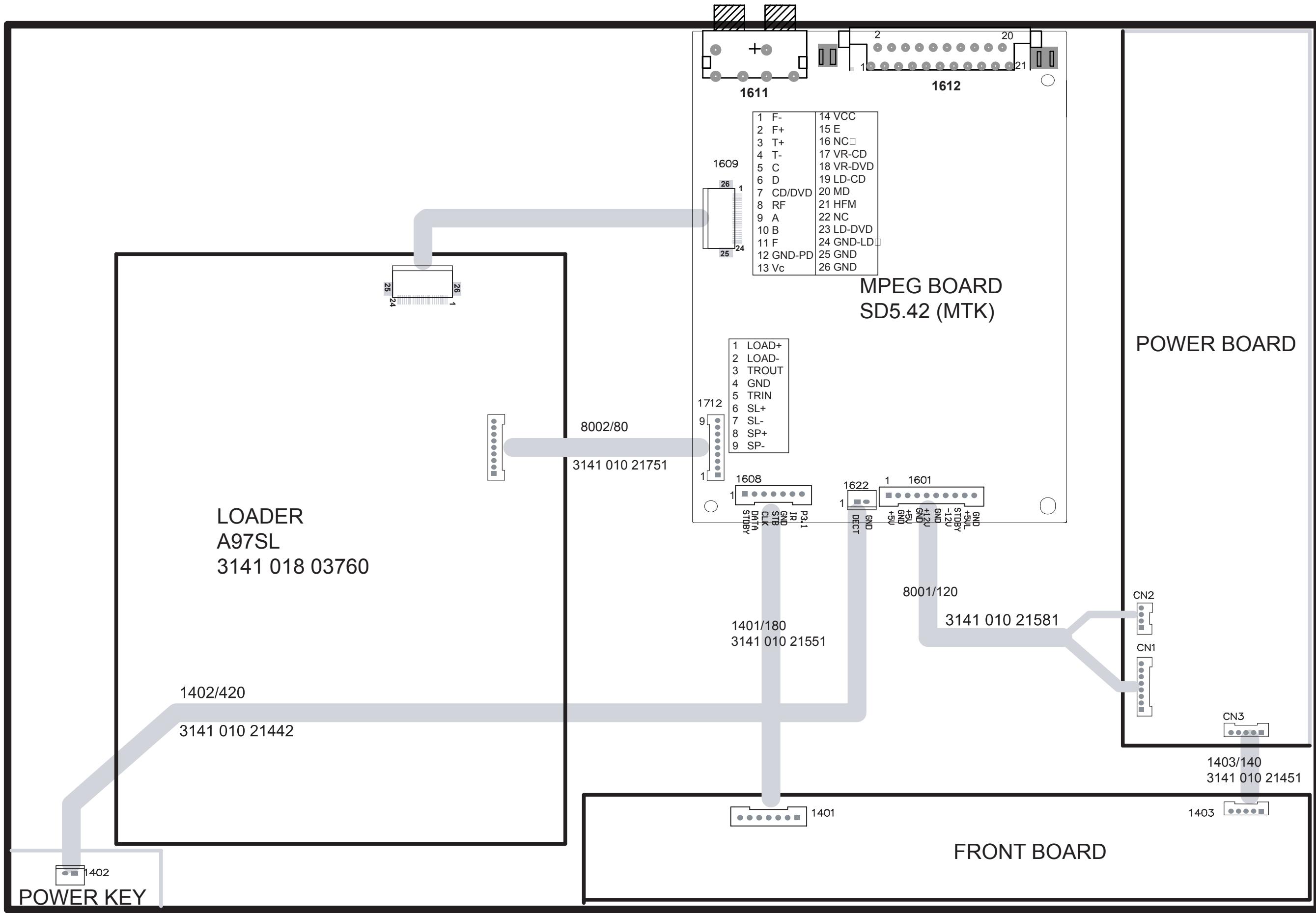


Personal Notes:

6. Block and Wiring Diagram.

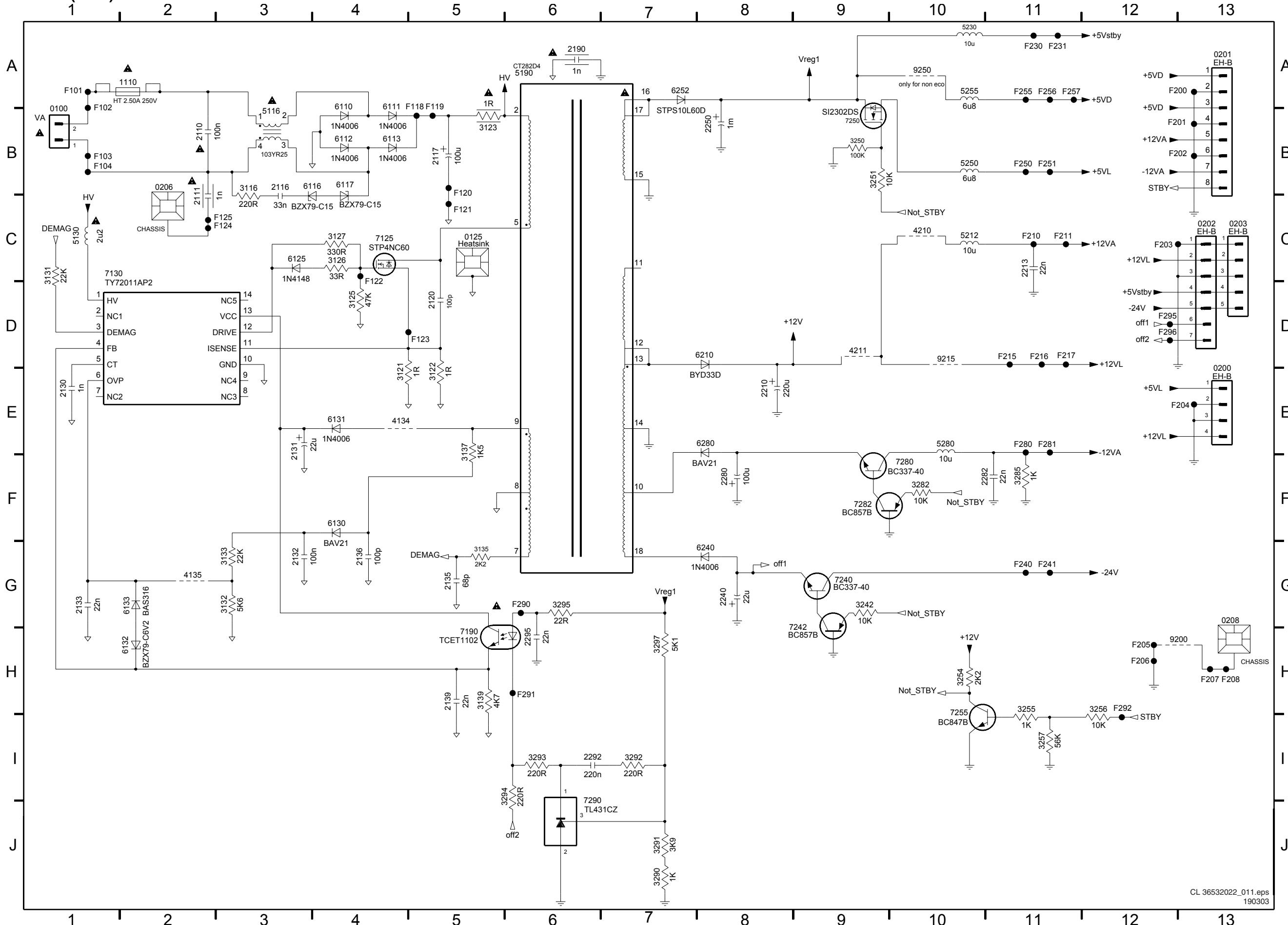
Block Diagram



WiringDiagram

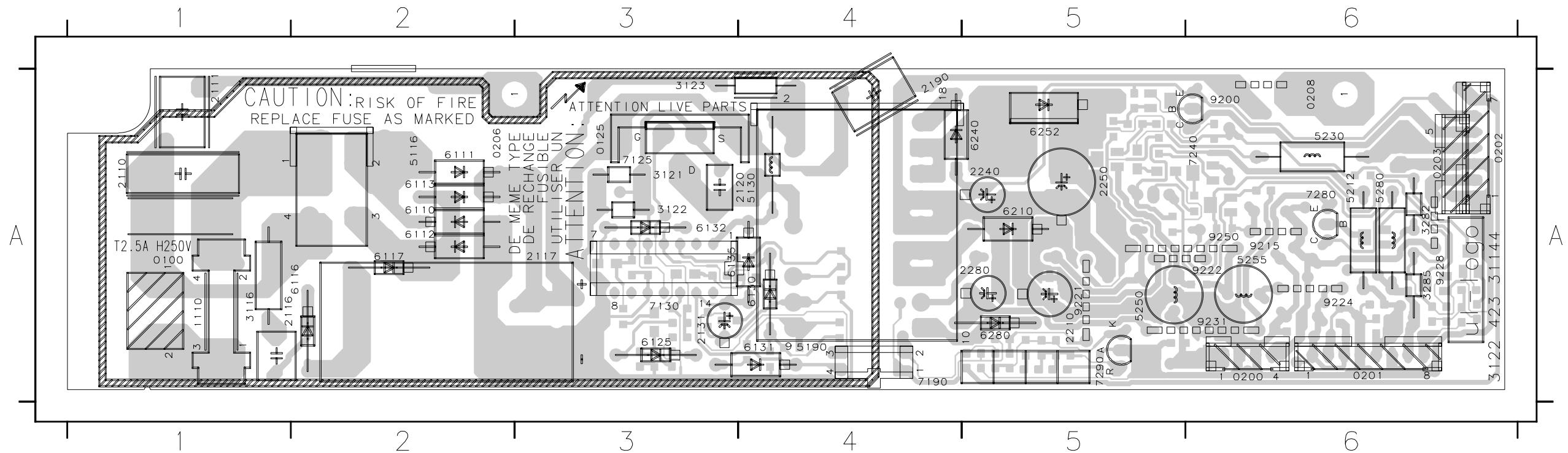
7. Electrical Diagrams

PSU (EPM)

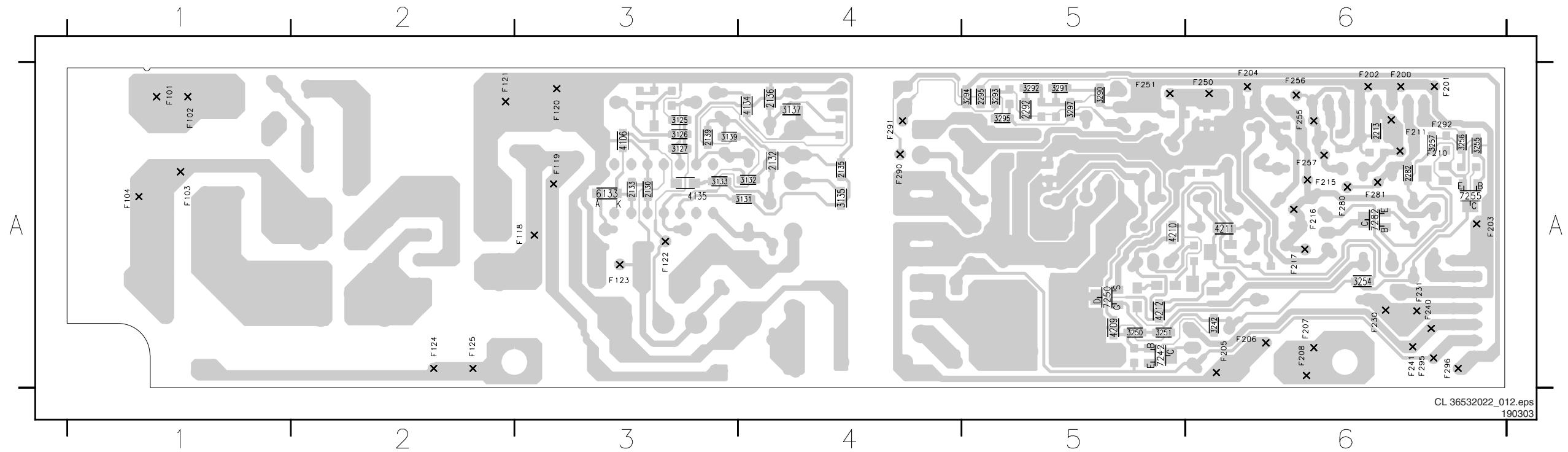


Layout PSU (EPM)**Components Side**

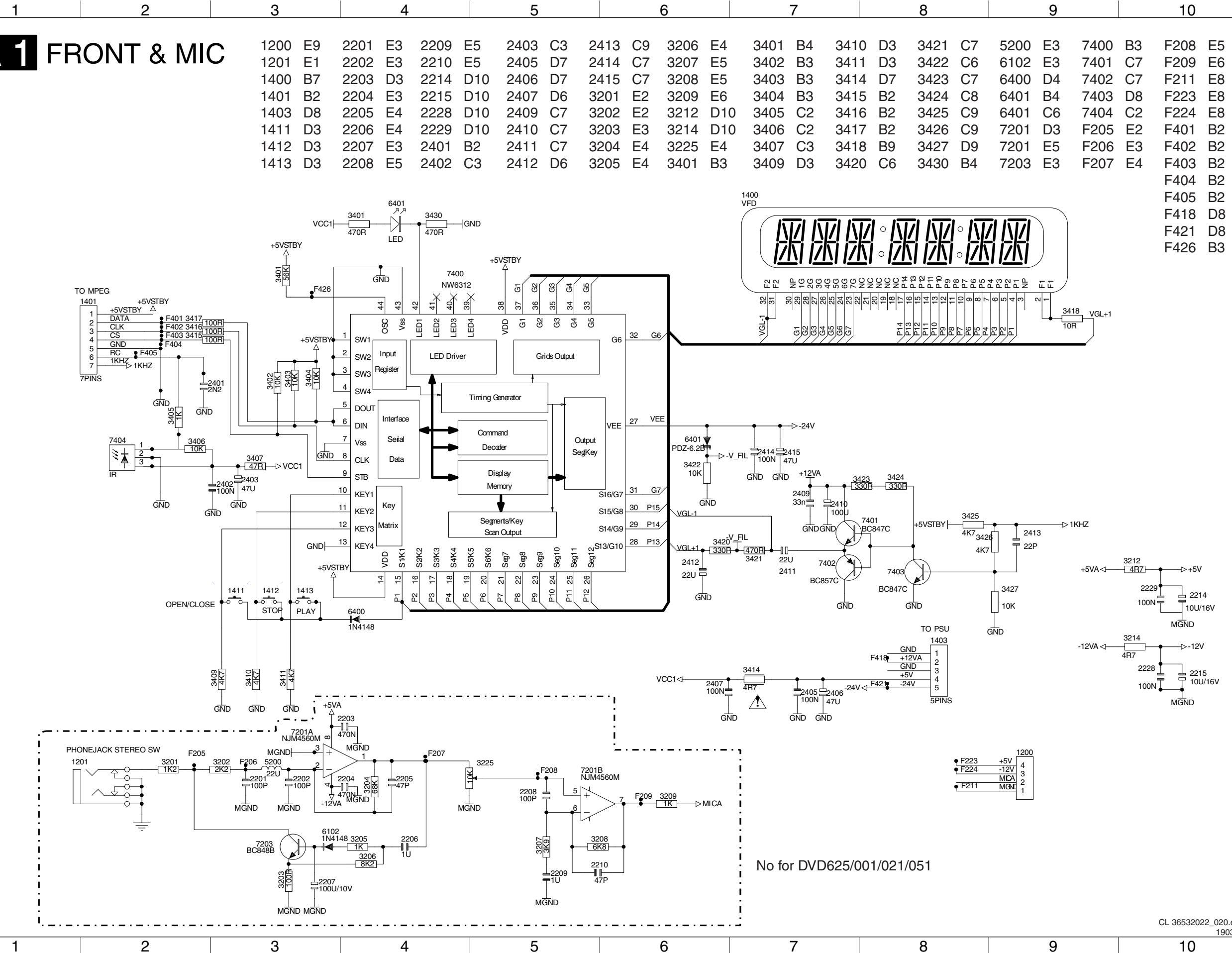
0100 A1 0203 A6 2111 A1 2120 A4 2215 A6 2252 A5 3116 A1 3212 A6 5116 A2 5230 A6 6111 A2 6125 A3 6210 A5 7125 A3 7280 A6
 0125 A3 0206 A6 2117 A3 2190 A4 2230 A6 2271 A5 3121 A3 3282 A6 5130 A4 5250 A6 6111 A2 6125 A3 6210 A5 7125 A3 7290 A6
 0200 A6 0208 A6 2118 A3 2200 A6 2240 A5 2280 A5 3110 A1 3123 A3 3285 A6 5190 A4 5210 A6 6111 A2 6130 A4 6252 A5 7190 A6 9200 A6
 0201 A6 1110 A1 2119 A2 2210 A5 2250 A5 3110 A1 3123 A3 3285 A6 5190 A4 5210 A6 6111 A2 6131 A4 6252 A5 7210 A6 9215 A6
 0202 A6 2110 A1 2119 A2 2210 A5 2250 A5 3110 A1 3123 A3 3285 A6 5190 A4 5210 A6 6111 A2 6132 A4 6271 A5 7240 A6 9221 A6
 0100 A1 0203 A6 2111 A1 2120 A4 2215 A6 2252 A5 3116 A1 3212 A6 5116 A2 5230 A6 6111 A2 6125 A3 6210 A5 7125 A3 7280 A6 9222 A6
 0125 A3 0206 A6 2117 A3 2190 A4 2230 A6 2271 A5 3121 A3 3282 A6 5130 A4 5250 A6 6111 A2 6125 A3 6210 A5 7125 A3 7290 A6 9224 A6
 0200 A6 0208 A6 2118 A3 2200 A6 2240 A5 2280 A5 3110 A1 3123 A3 3285 A6 5190 A4 5210 A6 6111 A2 6131 A4 6252 A5 7190 A6 9200 A6
 0201 A6 1110 A1 2119 A2 2210 A5 2250 A5 3110 A1 3123 A3 3285 A6 5190 A4 5210 A6 6111 A2 6132 A4 6271 A5 7210 A6 9215 A6
 0202 A6 2110 A1 2119 A2 2210 A5 2250 A5 3110 A1 3123 A3 3285 A6 5190 A4 5210 A6 6111 A2 6133 A4 6280 A5 7240 A6 9221 A6 9250 A6

**Copper Side**

2129 A3 2135 A4 2216 A6 2282 A6 3125 A3 3129 A3 3135 A4 3210 A6 3240 A5 3253 A6 3257 A6 3291 A5 3295 A5 4106 A3 4210 A5 6126 A3 6251 A5
 2130 A3 2136 A4 2254 A6 2291 A5 3128 A3 3131 A4 3137 A4 3211 A6 3242 A6 3250 A5 3254 A6 3290 A5 3292 A5 3296 A5 4134 A4 4211 A6 6124 A3 6250 A5
 2132 A4 2139 A3 2256 A6 2295 A5 3128 A3 3132 A4 3139 A3 3216 A5 3250 A5 3256 A6 3290 A5 3293 A5 3297 A5 4209 A5 4250 A6 6123 A3 6252 A5
 2133 A3 2213 A6 2256 A6 2295 A5 3128 A3 3132 A4 3139 A3 3216 A5 3250 A5 3256 A6 3290 A5 3294 A5 3298 A5 4209 A5 4250 A6 6124 A3 6252 A5
 2129 A3 2135 A4 2216 A6 2282 A6 3125 A3 3129 A3 3135 A4 3210 A6 3240 A5 3253 A6 3257 A6 3291 A5 3295 A5 4106 A3 4210 A5 6126 A3 6251 A5
 2130 A3 2136 A4 2254 A6 2291 A5 3128 A3 3131 A4 3137 A4 3211 A6 3242 A6 3250 A5 3254 A6 3290 A5 3292 A5 3296 A5 4134 A4 4211 A6 6124 A3 6250 A5
 2132 A4 2139 A3 2256 A6 2295 A5 3128 A3 3132 A4 3139 A3 3216 A5 3250 A5 3256 A6 3290 A5 3293 A5 3297 A5 4209 A5 4250 A6 6123 A3 6252 A5
 2133 A3 2213 A6 2256 A6 2295 A5 3128 A3 3132 A4 3139 A3 3216 A5 3250 A5 3256 A6 3290 A5 3294 A5 3298 A5 4209 A5 4250 A6 6124 A3 6252 A5

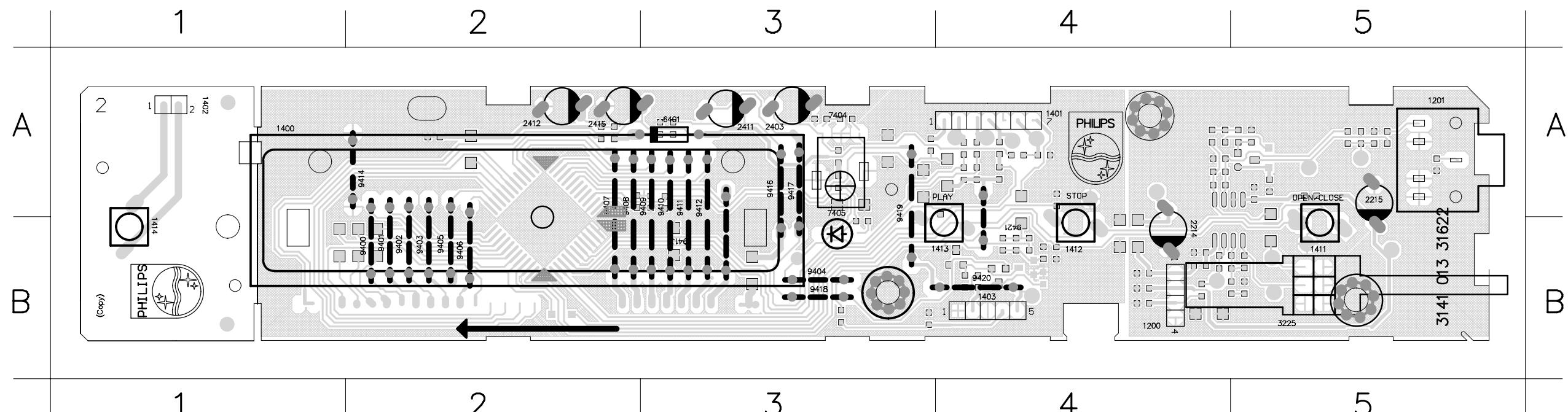


Front & Mic Board

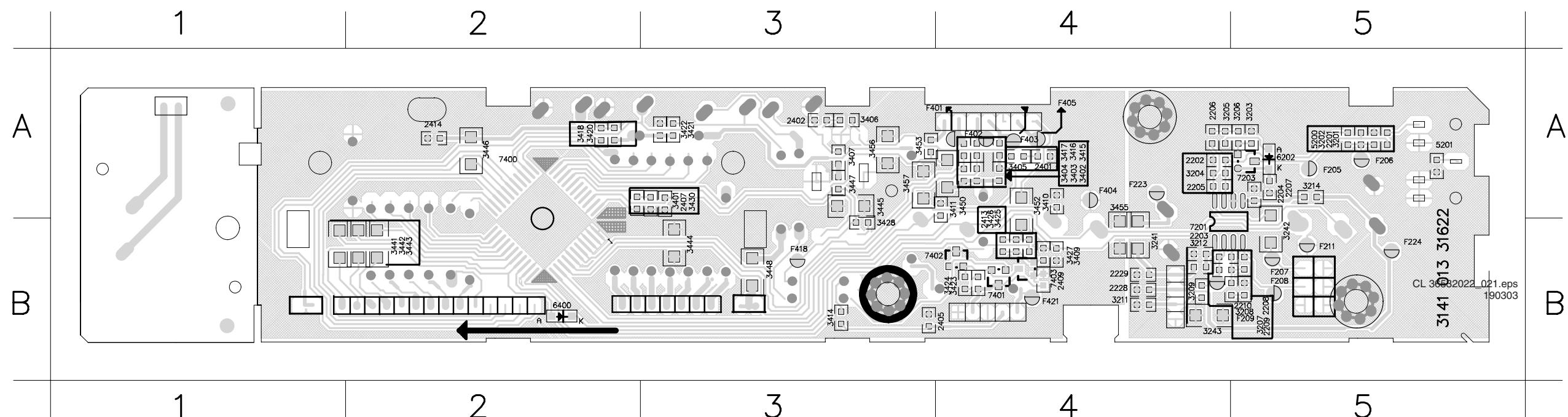


Layout Front & Mic Board**Components Side**

1200 B8	1402 A1	1413 B6	2403 A5	3225 B8	7400 B4	9401 B3	9405 B3	9409 B5	9413 B5	9418 B5
1201 A8	1403 B7	1414 B1	2411 A5	6202 A8	7404 A6	9402 B3	9406 B3	9410 B5	9414 A3	9419 B6
1400 B4	1411 B8	2214 A8	2412 A4	6400 B4	7405 B6	9403 B3	9407 B4	9411 B5	9416 A5	9420 B6
1401 A7	1412 B7	2215 A8	2415 A4	6401 A4	9400 B3	9404 B5	9408 B4	9412 B5	9417 B6	9421 B7

**Copper Side**

2201 A8	2207 A8	2401 A7	2414 A3	3206 A8	3214 A8	3403 A7	3410 A7	3418 A4	3425 B7	3442 B3	3448 B5	3457 A6	7402 B7	F209 B8	F403 A7
2202 A8	2208 B8	2402 A6	3201 A8	3207 B8	3241 B8	3404 A7	3411 A7	3420 A4	3426 B7	3443 B3	3450 A7	5200 A8	7403 B7	F211 B8	F404 A8
2203 B8	2209 B8	2405 B6	3202 A8	3208 B8	3242 B8	3405 A7	3414 B6	3421 A5	3427 B7	3444 B5	3452 A7	5201 A8	F205 A8	F223 A8	F405 A7
2204 A8	2210 B8	2407 A5	3203 A8	3209 B8	3243 B8	3406 A6	3415 A7	3422 A5	3428 B6	3445 A6	3453 A6	7201 A8	F206 A8	F224 B8	F418 B6
2205 A8	2228 B8	2409 B7	3204 A8	3211 B8	3401 A4	3407 A6	3416 A7	3423 B7	3430 A5	3446 A3	3455 B8	7203 A8	F207 B8	F401 A7	F421 B7
2206 A8	2229 B8	2413 B7	3205 A8	3212 B8	3402 A7	3409 B7	3417 A7	3424 B7	3441 B2	3447 A6	3456 A6	7401 B7	F208 B8	F402 A7	



MPEG Board: Index

1

2

3

4

5

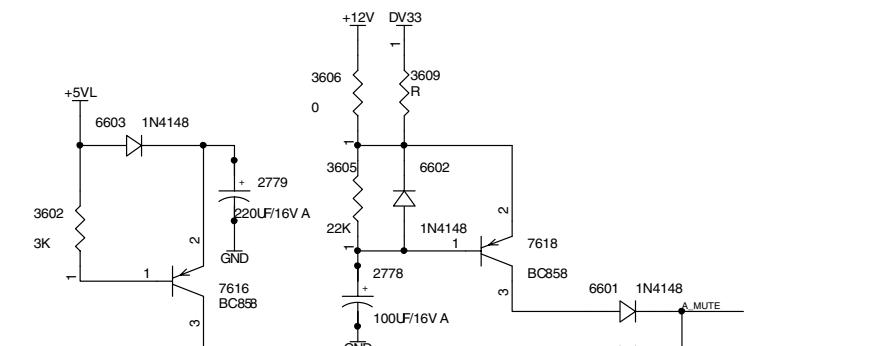
6

M 1 INDEX

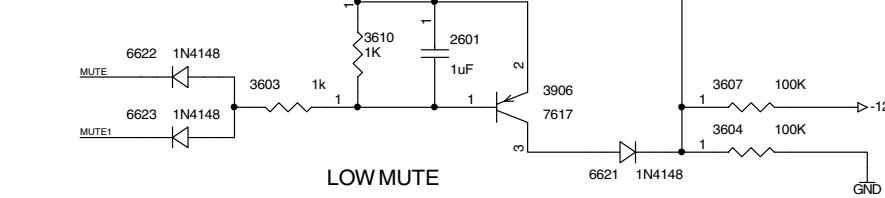
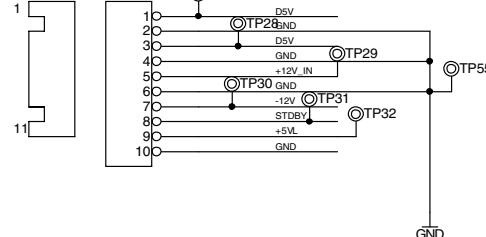
A

NAME	TYPE	DEVICE
5VL	Digital 5V	SUPPLY
RVCC	Servo 5V	MT1336E
AVCC	RF 5V	PICKUP HEADER
DV33	Digital 3.3V	Flash, VideoDAC
DV33	Digital 3.3V	MT1369E
AV33	Servo 3.3V	MT1369E
V25	Digital 2.5V	MT1369E
SD33	Digital 3.3V	SDRAM
+5VV	VIDEO 5V	VIDEO
VCC5330	Audio 5V	Audio
+12V	Audio 12V	Audio filter
+5V8756D	Audio 5V	Audio DAC
+5V8756A	Audio 5V	Audio DAC

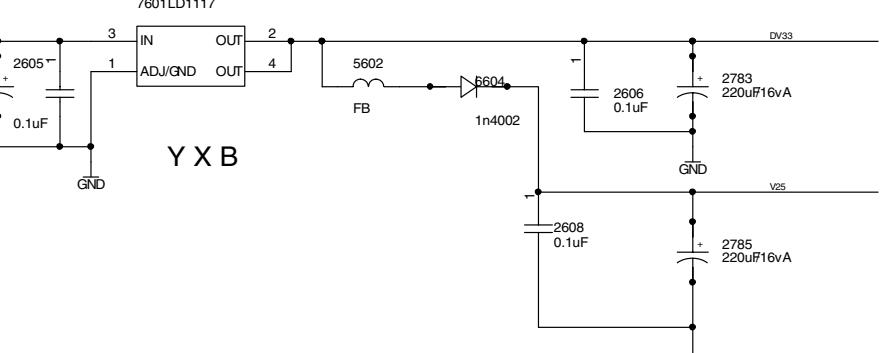
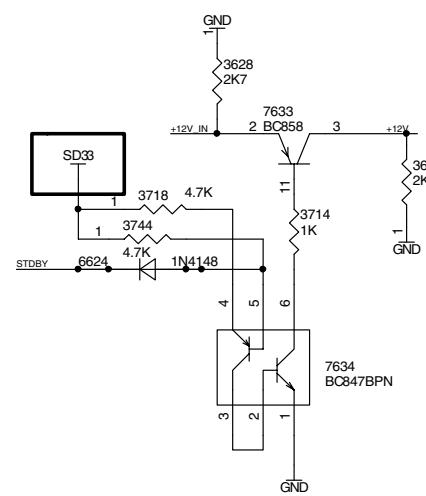
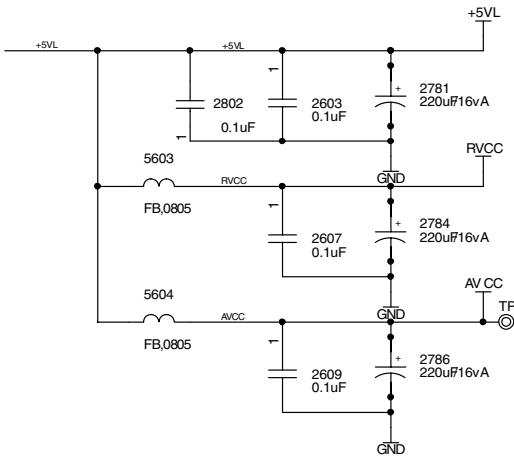
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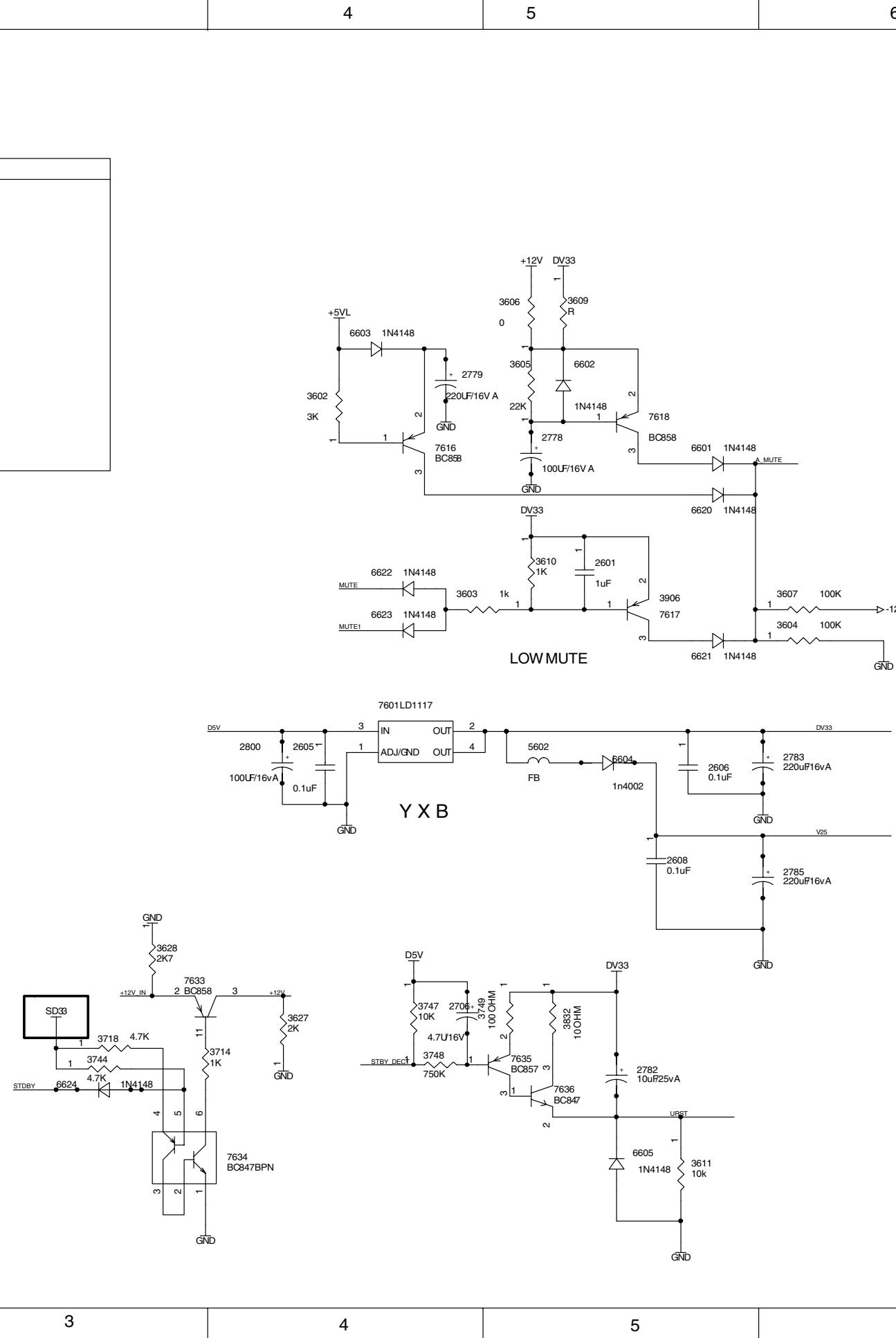
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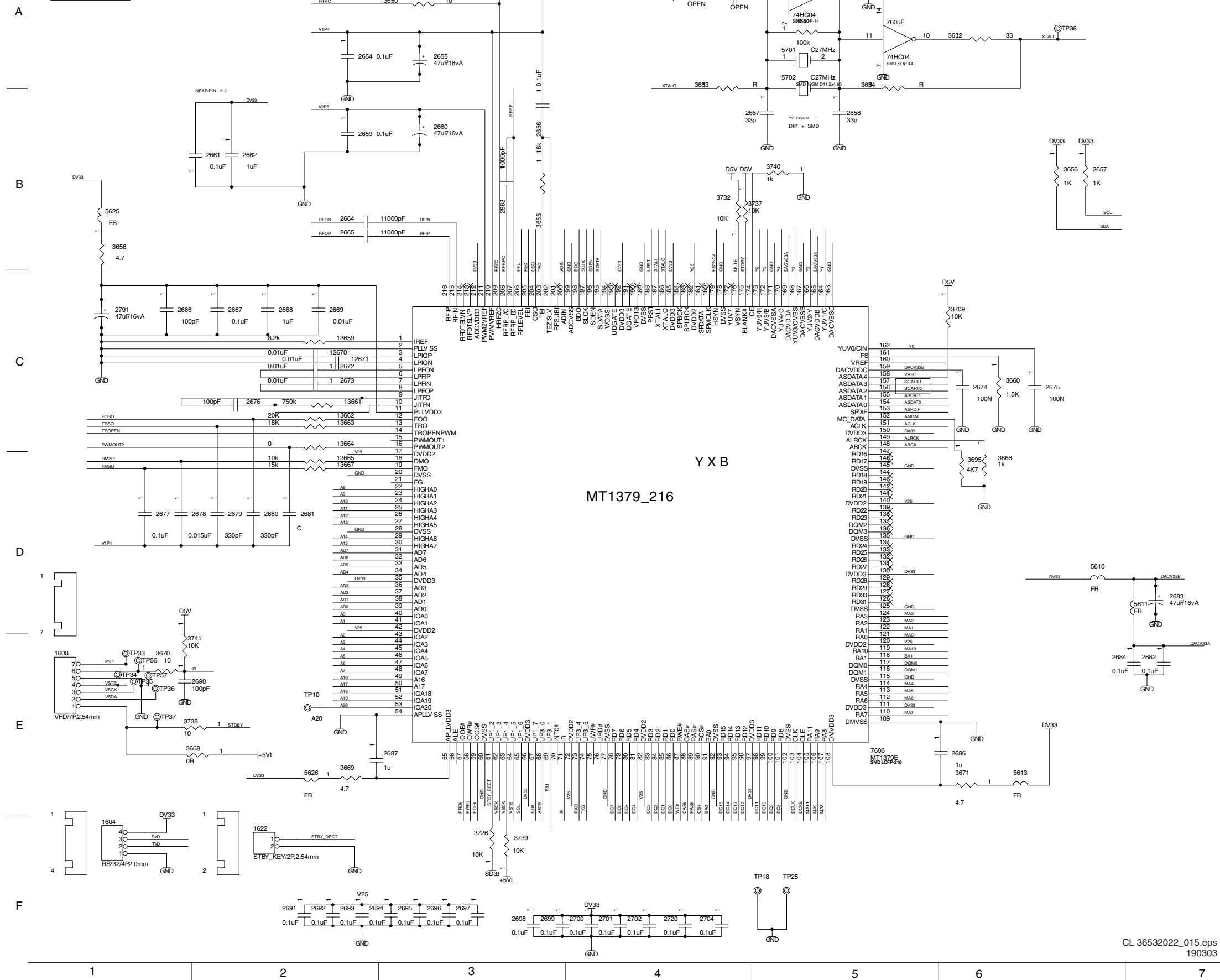
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E

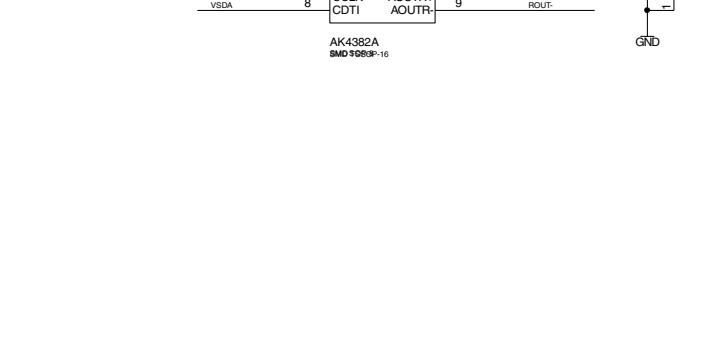
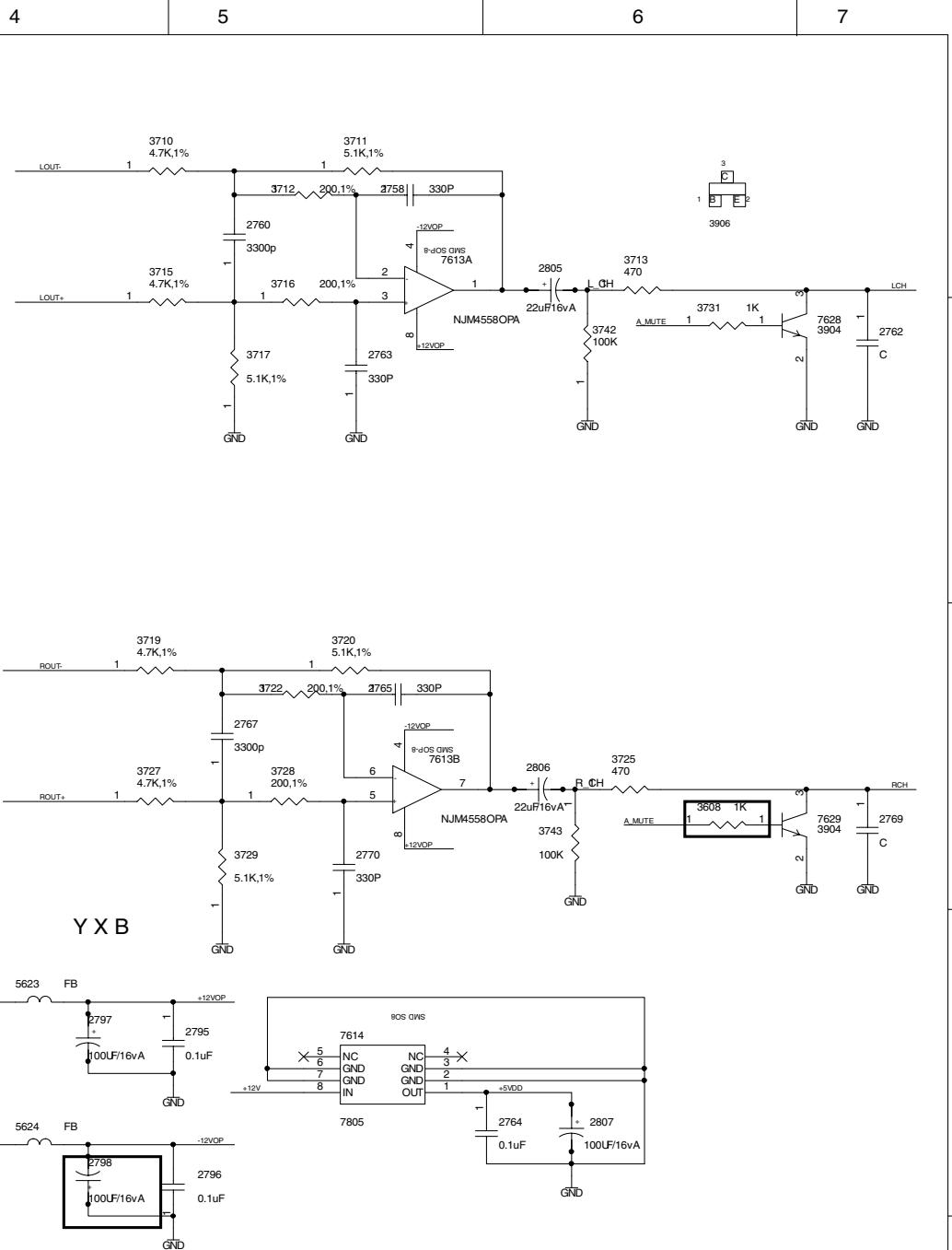
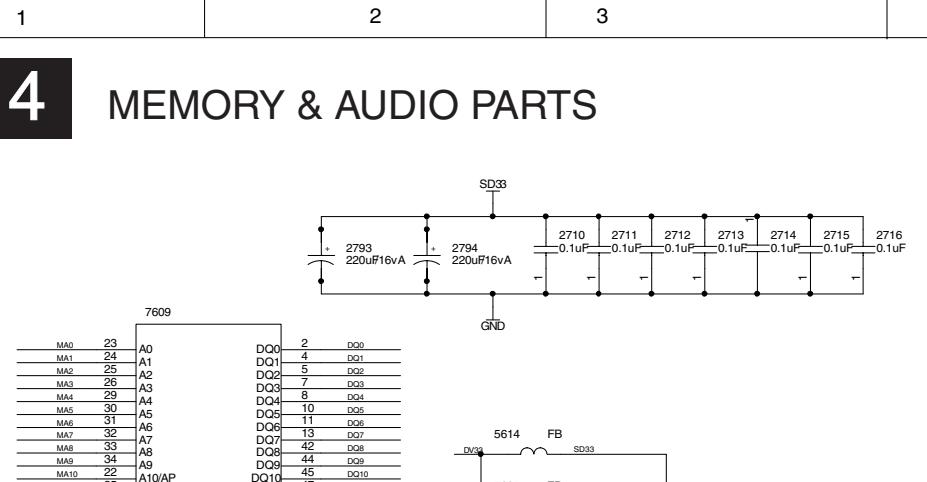


- 1601 C2
- 2601 C5
- 2603 D2
- 2605 C4
- 2606 C6
- 2607 E2
- 2608 D6
- 2609 E2
- 2706 D5
- 2778 B5
- 2779 B5
- 2781 D2
- 2782 D5
- 2783 C6
- 2784 E2
- 2785 D6
- 2786 E2
- 2800 C4
- 2802 D2
- 3602 B4
- 3603 C5
- 3604 C6
- 3605 B5
- 3606 B5
- 3607 C6
- 3609 B5
- 3610 C5
- 3611 E6
- 3627 D4
- 3628 D3
- 3714 D4
- 3744 E3
- 3747 D5
- 3748 E5
- 3749 D5
- 3832 D5
- 5602 C5
- 5603 E2
- 5604 E2
- 6601 B6
- 6602 B5
- 6603 B4
- 6604 C5
- 6605 E5
- 6620 B6
- 6621 C6
- 6622 C5
- 6623 C5
- 6624 C5
- 7601 C5
- 7616 B5
- 7617 C5
- 7618 B5
- 7633 D4
- 7634 E4
- 7635 D5
- 7636 E5
- TP23 E3
- TP26 C2
- TP28 C2
- TP29 C2
- TP30 C2
- TP31 C2
- TP32 C2
- TP55 C3

MPEG Board: Servo Part**M 3 SERVO Part**

A	1604 F1	3670 E1
	1608 E1	3671 E6
	1622 F2	3695 D6
	2653 A5	3709 C6
	2654 A2	3726 F3
	2655 A3	3732 B4
	2656 B3	3737 B4
	2657 B5	3738 E2
	2658 B5	3739 F3
	2659 B2	3740 B5
	2660 B3	3741 E1
	2661 B2	5610 D6
	2662 B2	5611 D7
	2663 B3	5613 E6
	2664 B2	5625 B1
	2665 B2	5626 E2
	2666 C1	5628 A4
	2667 C2	5701 A5
	2668 C2	5702 A5
	2669 C2	7605 A5
	2670 C2	7605 A5
	2671 C2	7606 C3
B	2672 C2	TP10 E2
	2673 C2	TP18 F5
	2674 C6	TP25 F5
	2675 C6	TP33 E1
	2676 C2	TP34 E1
	2677 D1	TP35 E1
	2678 D1	TP36 E1
	2679 D2	TP37 E1
	2680 D2	TP38 A6
	2681 D2	TP56 E1
	2682 E7	TP57 E1
C	2683 D7	
	2684 E7	
	2686 E6	
	2687 E2	
	2690 E1	
	2691 F2	
	2692 F2	
	2693 F2	
	2694 F3	
	2684 E7	
	2686 E6	
	2687 E2	
	2690 E1	
	2691 F2	
D	2692 F2	
	2693 F2	
	2694 F3	
	2697 F3	
	2698 F3	
	2699 F3	
	2700 F4	
	2701 F4	
	2702 F4	
	2704 F4	
E	2720 F4	
	2791 C1	
	2804 A4	
	3648 A3	
	3649 A3	
	3650 A3	
	3651 A5	
	3652 A6	
	3653 B4	
	3654 B5	
	3655 B3	
	3656 B6	
	3657 B6	
F	3658 B1	
	3659 C2	
	3660 C6	
	3661 C2	
	3662 C2	
	3663 C2	
	3664 C2	
	3665 D2	
	3666 D6	
	3667 D2	
	3668 E2	
	3669 E2	

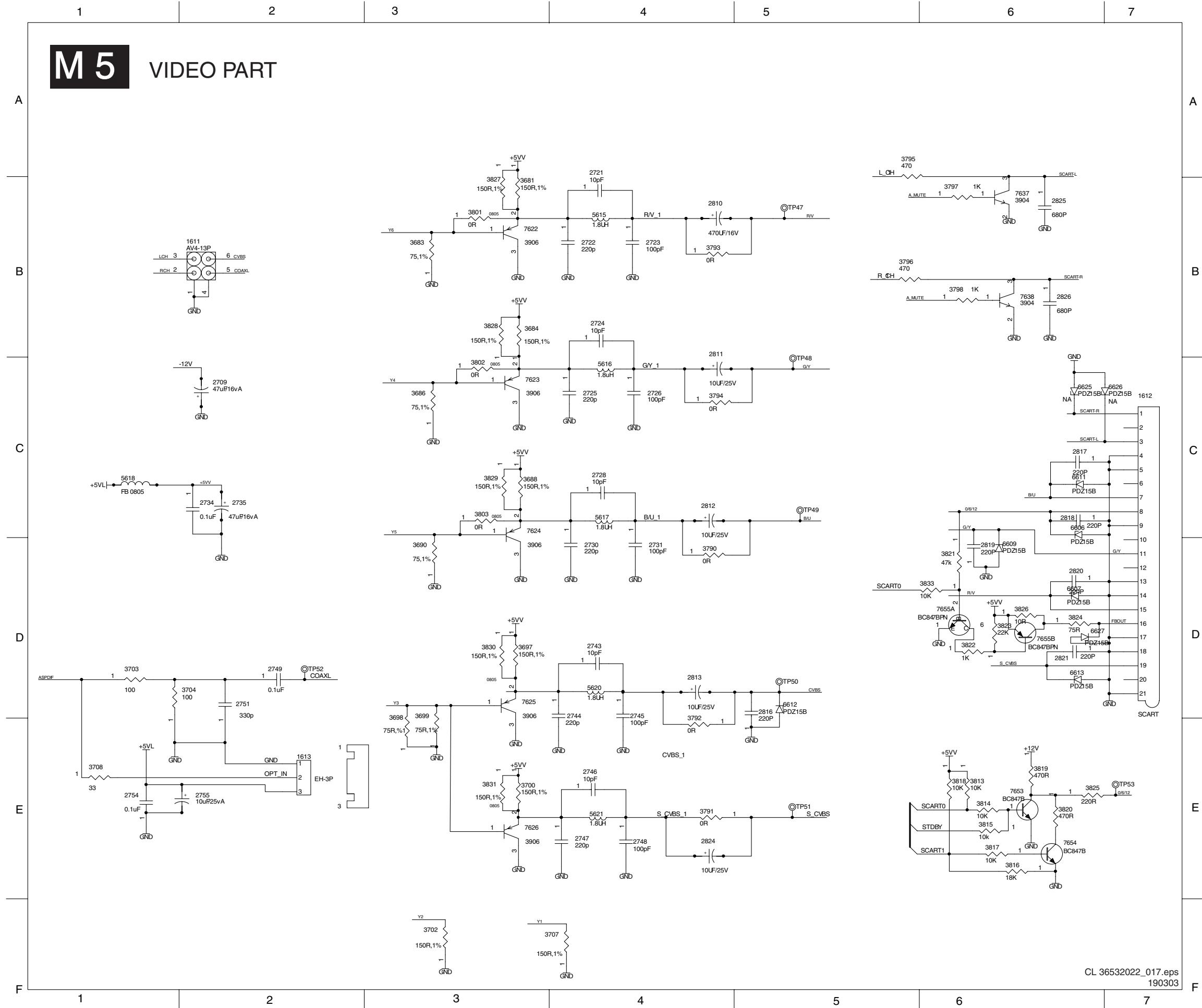
MPEG Board: Memory & Audio Parts



2685 D2
2703 E1
2710 A2
2711 A3
2712 A3
2713 A3
2714 A3
2715 A3
2716 A3
2717 B3
2758 A5
2760 A5
2762 B7
2763 B5
2764 D5
2765 C5
2767 C5
2769 C7
2770 C5
2776 D2
2777 D2
2793 A2
2794 A2
2795 D4
2796 D5
2797 D4
2798 D4
2799 E6
2805 B6
2806 C6
2807 D6
3608 C6
3672 C3
3673 D3
3674 D3
3675 D3
3676 D3
3680 D1
3710 A4
3711 A5
3712 A5
3713 B6
3715 B4
3716 B5
3717 B5
3719 C4
3720 C5
3721 E4
3722 C5
3723 E4
3724 E4
3725 C6
3727 C4
3728 C5
3729 C5
3731 B6
3742 B6
3743 C6
3746 D1
3808 D2
3809 D2
5614 B2
5623 D4
5624 D4
5625 D4
5626 D4
5627 B2
7609 B1
7610 E1
7611 C1
7613 B5
7613 C5
7614 D5
7615 E5
7628 B6
7629 C6
TP54 B1

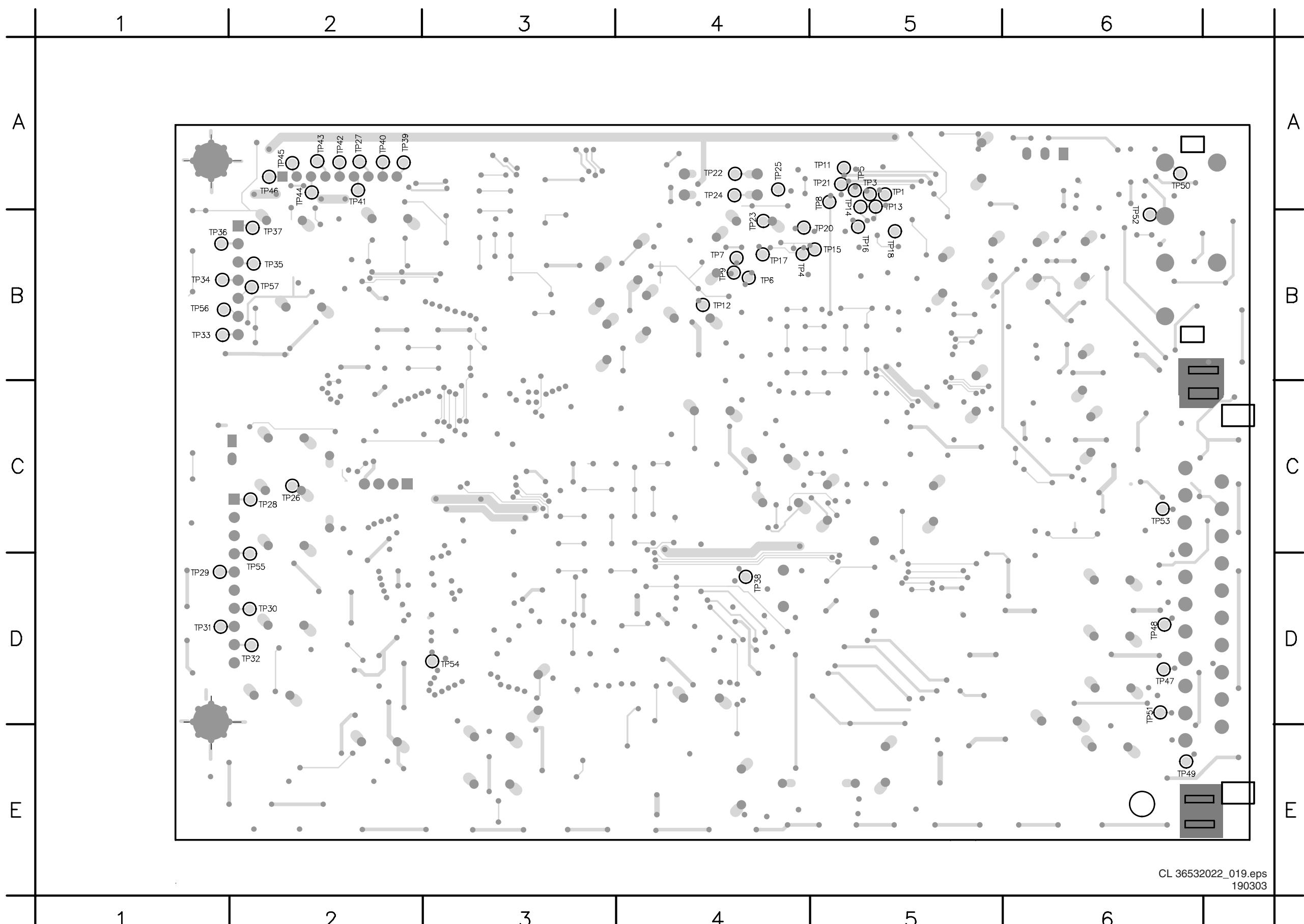
F

MPEG Board: Video Part



1611 B2	5616 C4
1612 C7	5617 C4
1613 E2	5618 C1
2709 C2	5620 D4
2721 B4	5621 E4
2722 B4	6606 C6
2723 B4	6607 D6
2724 B4	6609 D6
2725 C4	6611 C6
2726 C4	6612 E5
2728 C4	6613 D6
2730 D4	6625 C6
2731 D4	6626 C7
2734 C2	6627 D6
2735 C2	7622 B3
2743 D4	7623 C3
2744 D4	7624 C3
2745 D4	7625 D3
2746 E4	7626 E3
2747 E4	7637 B6
2748 E4	7638 B6
2749 D2	7653 E6
2751 D2	7654 E6
2754 E1	7655 D6
2755 E1	7655 D6
2810 B4	TP47 B5
2811 C4	TP48 B5
2812 C4	TP49 C5
2813 D4	TP50 P5
2816 D5	TP51 E5
2817 C6	TP52 D2
2818 C6	TP53 E7
2819 D6	
2820 D6	
2821 D6	
2824 E4	
2825 B6	
2826 B6	
3681 B3	
3683 B3	
3684 B3	
3686 C3	
3688 C3	
3690 C3	
3692 D3	
3698 E3	
3699 E3	
3700 E3	
3702 F3	
3703 D1	
3704 D2	
3707 F4	
3708 E1	
3790 D4	
3791 E4	
3792 D4	
3793 B4	
3794 C4	
3795 B5	
3796 B5	
3797 B6	
3798 B6	
3801 B3	
3802 C3	
3803 C3	
3813 E6	
3814 E6	
3815 E6	
3816 E6	
3817 E6	
3819 E6	
3820 E6	
3821 D6	
3822 D6	
3823 D6	
3824 D6	
3825 E6	
3826 D6	
3827 B3	
3828 B3	
3829 C3	
3830 D3	
3831 E3	
3833 D6	
5615 B4	

Layout MPEG Board (Bottom Side)



TP1	A5
TP3	A5
TP4	B4
TP5	A5
TP6	B4
TP7	B4
TP8	A5
TP9	B4
TP11	A5
TP12	B4
TP13	A5
TP14	A5
TP15	B5
TP16	B5
TP17	B4
TP18	B5
TP20	B4
TP21	A5
TP22	A4
TP23	B4
TP24	A4
TP25	A4
TP26	C2
TP27	A2
TP28	C2
TP29	D1
TP30	D2
TP31	D1
TP32	D2
TP33	B1
TP34	B1
TP35	B2
TP36	B1
TP37	B2
TP38	B2
TP39	D4
TP40	A2
TP41	A2
TP42	A2
TP43	A2
TP44	A2
TP45	A2
TP46	A2
TP47	D6
TP48	D6
TP49	E6
TP50	A6
TP51	D6
TP52	B6
TP53	C6
TP54	D3
TP55	D2
TP56	B1
TP57	B2

Personal Notes:

Personal Notes:

8. Alignments

Not applicable.

9. Circuit Descriptions, List of Abbreviations, and IC Data

Not applicable.

3409 4822 051 30472 4k7 5% 0.062W
 3410 4822 051 30472 4k7 5% 0.062W
 3411 4822 051 30472 4k7 5% 0.062W
 3414 4822 117 13608 4.7Ω 5% 0603 0.0016W
 3415 4822 051 30101 100Ω 5% 0.062W
 3416 4822 051 30101 100Ω 5% 0.062W
 3417 4822 051 30101 100Ω 5% 0.062W
 3418 4822 051 30109 10Ω 5% 0.062W
 3420 4822 051 30331 330Ω 5% 0.062W
 3421 4822 051 30471 470Ω 5% 0.062W
 3422 4822 051 30103 10k 5% 0.062W
 3423 4822 051 30331 330Ω 5% 0.062W
 3424 4822 051 30331 330Ω 5% 0.062W
 3425 4822 051 30472 4k7 5% 0.062W
 3426 4822 051 30472 4k7 5% 0.062W
 3427 4822 051 30103 10k 5% 0.062W
 3428 4822 051 30471 470Ω 5% 0.062W
 3430 4822 051 30471 470Ω 5% 0.062W
 3441 4822 051 20008 0Ω jumper .(0805)
 3442 4822 051 20008 0Ω jumper .(0805)
 3443 4822 051 20008 0Ω jumper .(0805)
 3444 4822 051 20008 0Ω jumper .(0805)
 3445 4822 051 20008 0Ω jumper .(0805)
 3446 4822 051 20008 0Ω jumper .(0805)
 3447 4822 051 30008 0Ω jumper
 3448 4822 051 20008 0Ω jumper .(0805)
 3450 4822 051 20008 0Ω jumper .(0805)
 3452 4822 051 20008 0Ω jumper .(0805)
 3453 4822 051 30008 0Ω jumper
 3455 4822 051 20008 0Ω jumper .(0805)
 3456 4822 051 20008 0Ω jumper .(0805)
 3457 4822 051 20008 0Ω jumper .(0805)



6400 4822 130 11397 BAS316
 6401 4822 130 34167 BZX79-B6V2



7400 8241 010 40440 IC PT6312 QFP44
 7401 5322 130 60159 BC846B
 7402 4822 130 60373 BC856B
 7403 5322 130 60159 BC846B
 7404 3141 010 50260 IR RECEIVER HK361BT-16
 7405 3141 018 80801 LED RED DIF LTL-4221N-011
 8400 3141 010 21442 CWAS 02EH/02SAN 420 2 WH 26S
 8402 3141 010 21551 CWAS 07EH/07SAN 180 7 WH 26S
 8403 3141 010 21451 CWAS 05EH/05SAN 140 5 WH 26S

DVD625/051

Various

0200 3141 017 78041 FRONT ASSY DVD625/001
 0260 4822 532 60948
 1001 3122 429 00131 PSU DVD CHEETAH 4 EURO NON-ECO
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11. Revision List

First release