Service
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EM5E-DVD

AA

Supplement on Service Manual EM5E
(3122 785 12560)
For DVD Module use Service Manual DVD SD-3
(3211 785 11010)

Service Manual

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PHILIPS

1. Technical Specifications, Connections & Chassis Overview

1.1 Technical specifications

Standby consumption	:	1.1 W TV set + 6.5 W Surround speakers

1.2 Connections

1.2.1 Rear Connections and Side I/O

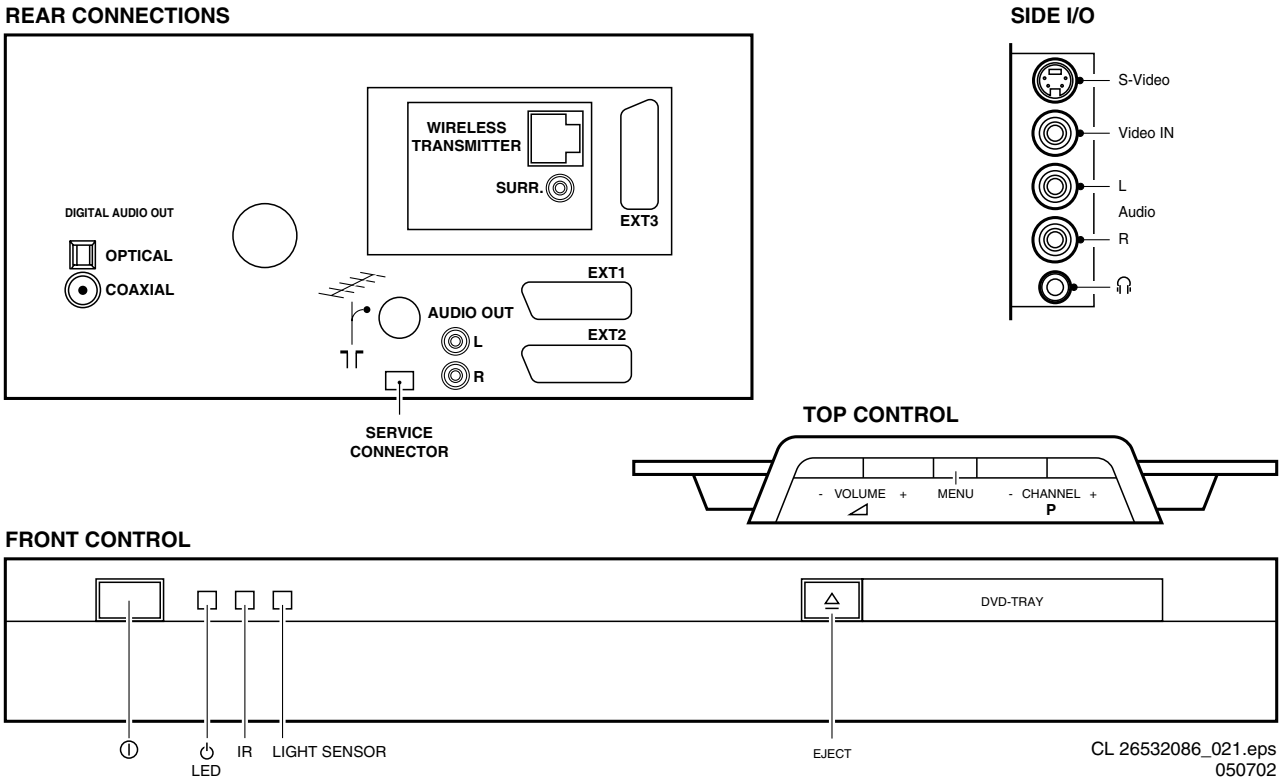

Figure 1-1 Rear/ front view, top control and Side I/O.

1.2.2 Cinch - Digital Output

CDDA/LPCM	:	According IEC958
MPEG1/2, AC3, DTS	:	According IEC1937
	:	Digital output swing is 5Vpp.

1.3 Chassis Overview

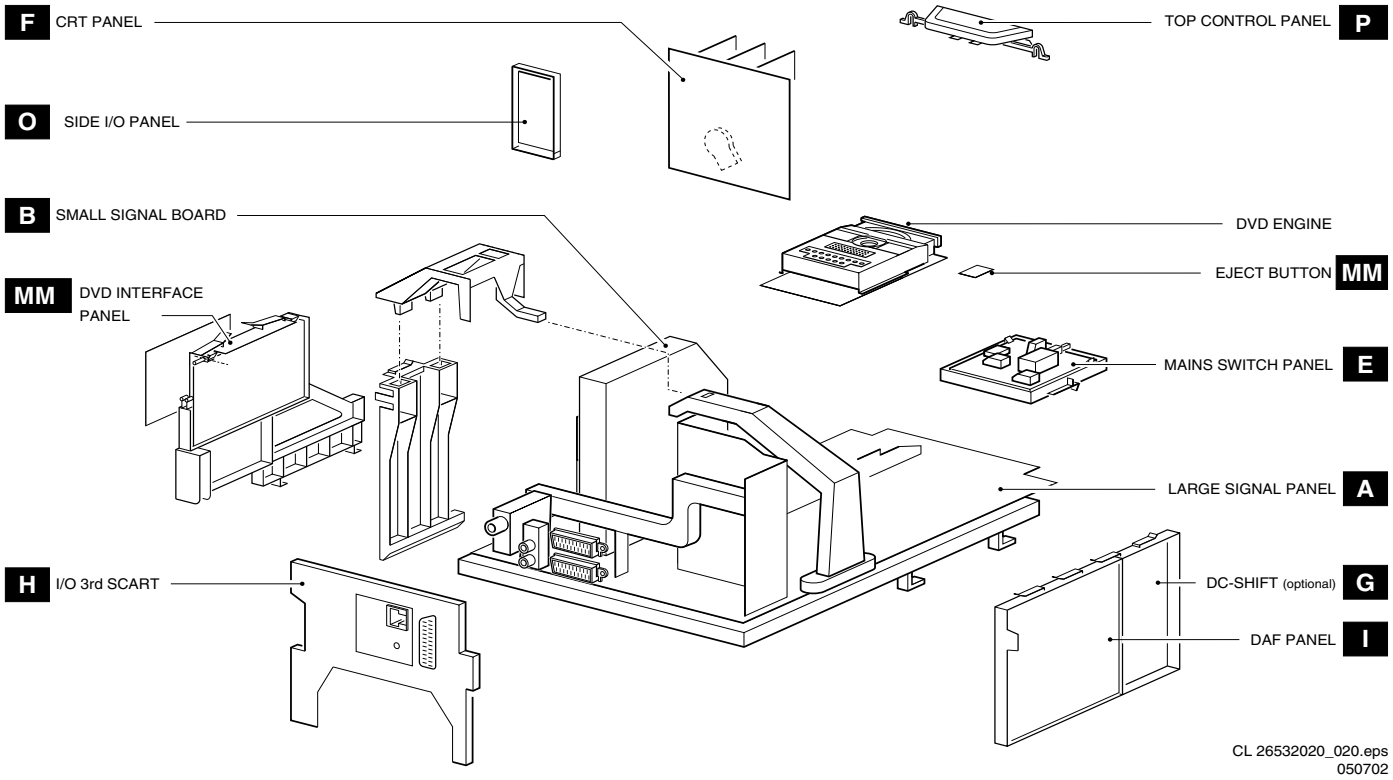

Figure 1-2 PWB location

2. Safety and Maintenance Instructions, Warnings, and Notes

2.1 Safety Instructions

Safety regulations require that **during** a repair:

- Due to the chassis concept, a very large part of the circuitry (incl. deflection) is 'hot'. Therefore, connect the set 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.
- Wear safety goggles when you replace the CRT.

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

- General repair instruction: as a strict precaution, we advise you to re-solder the solder connections through which the horizontal deflection current is flowing. In particular this is valid for the:
  1. Pins of the line output transformer (LOT).
  2. Fly-back capacitor(s).
  3. S-correction capacitor(s).
  4. Line output transistor.
  5. Pins of the connector with wires to the deflection coil.
  6. Other components through which the deflection current flows.

Note: This re-soldering is advised to prevent bad connections due to metal fatigue in solder connections, and is therefore only necessary for television sets more than two years old.

- Route the wire trees and EHT cable correctly and secure them with the mounted cable clamps.
- Check the insulation of the mains cord for external damage.
- Check the strain relief of the mains cord for proper function, to prevent the cord from touching the CRT, hot components, or heat sinks.
- Check the electrical DC resistance between the mains plug and the secondary side (only for sets that have an isolated power supply). Do this as follows:
  1. Unplug the mains cord and connect a wire between the two pins of the mains plug.
  2. Turn on the main power switch (keep the mains cord unplugged!).
  3. Measure the resistance value between the pins of the mains plug and the metal shielding of the tuner or the aerial connection of the set. The reading should be between 4.5 MΩ and 12 MΩ.
  4. Switch the TV 'off' and remove the wire between the two pins of the mains plug.
- Check the cabinet for defects, to prevent the possibility of the customer touching any internal parts.

2.2 Maintenance Instructions

We recommend a maintenance inspection carried out by qualified service personnel. The interval depends on the usage conditions:

- When a customer uses the set under normal circumstances, for example in a living room, the recommended interval is three to five years.
- When a customer uses the set in an environment with higher dust, grease, or moisture levels, for example in a kitchen, the recommended interval is one year.
- The maintenance inspection includes the following actions:
  1. Perform the 'general repair instruction' noted above.
  2. Clean the power supply and deflection circuitry on the chassis.
  3. Clean the picture tube panel and the neck of the picture tube.

2.3 Warnings

- In order to prevent damage to ICs and transistors, avoid all high voltage flashovers. In order to prevent damage to the picture tube, use the method shown in Fig. 2-1, to discharge the picture tube. Use a high voltage probe and a multi-meter (position VDC). Discharge until the meter reading is 0 V (after approx. 30 s).

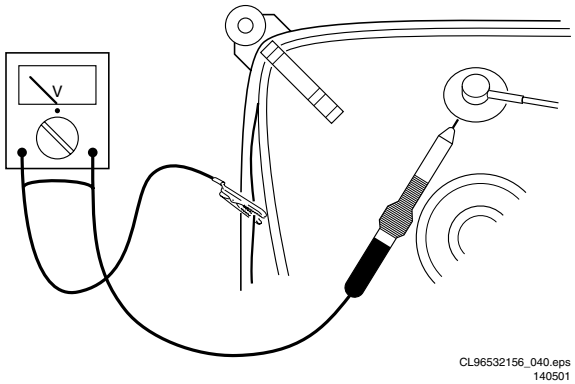

Figure 2-1 Discharge picture tube

- All ICs and many other semiconductors are susceptible to electrostatic discharges (ESD, symbol w). Careless handling during repair can reduce life drastically. Make sure that, during repair, you are connected with the same potential as the mass of the set by a wristband with resistance. Keep components and tools also at this potential. Available ESD protection equipment:
  – Complete kit ESD3 (small tablemat, wristband, connection box, extension cable and ground cable) 4822 310 10671.
  – Wristband tester 4822 344 13999.
- Together with the deflection unit and any multi-pole unit, flat square picture tubes form an integrated unit. The deflection and the multi-pole units are set optimally at the factory. We do not recommend adjusting this unit during repair.
- Be careful during measurements in the high voltage section and on the picture tube.
- Never replace modules or other components while the unit is 'on'.
- When you align the set, use plastic rather than metal tools. This will prevent any short circuits and the danger of a circuit becoming unstable.

2.4 Notes

- Measure the voltages and waveforms with regard to the chassis (= tuner) ground (⏚), or hot ground (⏚), depending on the tested area of circuitry.
- The voltages and waveforms shown in the diagrams are indicative. Measure them in the Service Default Mode (see chapter 5) with a colour bar signal and stereo sound (L: 3 kHz, R: 1 kHz unless stated otherwise) and picture carrier at 475.25 MHz (PAL) or 61.25 MHz (NTSC, channel 3).
- Where necessary, measure the waveforms and voltages with (⊓⊓) and without (⊠) aerial signal. Measure the voltages in the power supply section both in normal operation (⏻) and in standby (⏻). These values are indicated by means of the appropriate symbols.
- The picture tube panel has printed spark gaps. Each spark gap is connected between an electrode of the picture tube and the Aquadag coating.

- The semiconductors indicated in the circuit diagram and in the parts lists, are interchangeable per position with the semiconductors in the unit, irrespective of the type indication on these semiconductors.
- Manufactured under license from Dolby Laboratories. 'Dolby', 'Pro Logic' and the 'double-D symbol', are trademarks of Dolby Laboratories.

Figure 2-2 Dolby Pro Logic Symbol

2.5 Laser Safety

LASER SAFETY

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

LASER DEVICE UNIT

Type:	SemiconductorlaserGaAlAs
Wave length:	650 nm (DVD)
	780 nm (VCD/CD)
Output Power:	7 mW (DVD)
	10 mW (VCD/CD)
Beam divergence:	60 degree

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

WARNING

The use of optical instruments with this product will increase eye hazard.
Repair handling should take place as much as possible with a disc loaded inside the player

WARNING LOCATION: INSIDE ON LASER COVERSHIELD

CAUTION VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AVOID EXPOSURE TO BEAM
ADVARSEL SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING UNDGÅ UDSÆTTELSE FOR STRÅLING
ADVARSEL SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN
VARNING SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD BETRAKTA EJ STRÅLEN
VARO! AVATT AESSA OLET ALTTIINA NÄKYVÄLLE JA NÄKYMÄTTÖMÄLLE LASER SÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN
VORSICHT SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETSEN
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

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230500

Figure 2-3 Laser safety

Installation

Your remote control

Use the on-screen info for more information about the different keys. See p. 6.

MODE See p. 31.

TV/DVD To switch between TV and DVD mode.

Select peripherals
Press this key to select **EXT1**, **EXT2**, **EXT3** or **SIDE**, according to where you connected the peripherals. (p. 30).

DISC MENU See p. 22

MENU **Main menu** on/off see p. 12

OK Press this key to activate your choice, when in the menus.

Cinema Go
Press for 2 seconds to activate. See separate Cinema Link instruction manual supplied.

Cursor keys up/down left/right

Volume
Press + or - to adjust the volume.

Mute
Interrupt the sound or restore it.

P Programme selection
To browse through the TV channels and sources stored. Only those channels which are in the favourite list can be selected with the **- P +** keys.
When in DVD mode, use the **- P +** keys to browse through DVD chapters or audio tracks.

Standby
Press to switch the TV on or off.
If your EasyLink video recorder has the system standby function and you press the standby key for 3 seconds, both the TV and video recorder are switched to standby.

Teletext
on / Dual screen / off. See p. 18

PLAYER MENU See p. 24

● ◀◀ ■ ▶ ▶▶ ❚❚
Play control keys
Used for DVD player or external equipment. See p. 31

Colour keys See p. 15 and p. 18

RESUME key See p. 22

Freeze
To activate/de-activate the frozen picture. See also p. 19

0/9 Digit keys
To select a TV channel, DVD chapter or audio track.
For a two digit number, enter the second digit within 2 seconds.
To switch immediately to a selected one digit TV channel, keep the digit key pressed a bit longer.

T/C Title / Chapter
To summon and switch between the title and chapter menu in DVD mode.

P◂P **Smart surf** (See General, Smart surf, p. 10.)
Press this key to select the previously viewed TV channel or source in case of a 2 programme surf. In case of a 9 programme surf, a list appears at the right side of the screen. On top, the most recent programme is displayed. The puck is on the channel number currently viewed.
Press the P◂P key to turn to the next channel in the list or press cursor up/down to immediately select the desired TV channel of the list.
- To add a new channel or source: tune to the channel or source you wish to add. Press the P◂P key. Press the cursor right to add. If there are already nine channels/sources in the list, the one at the bottom of the list will be removed.
- To remove a channel or source: select the channel number you want to remove. Press the P◂P key. Press the cursor right to remove.

Press the **OK** key or wait for the time out to dismiss the Smart surf display.

Smart Sound
Each time it is pressed, a different sound setting is selected, corresponding with specific factory settings of treble and bass.

Smart Picture
Each time it is pressed, a different picture setting is selected, corresponding with specific factory settings of Contrast, Colour, Sharpness, Dynamic Contrast and Colour enhancement.

Personal refers to the personal preference settings of picture and sound selected in the picture and sound menu.

Surround mode
Press this key repeatedly to select another available surround mode: Stereo, Dolby 3 Stereo, 3D Surround, Hall or Dolby Pro Logic. See p. 13

NEXTVIEW/Teletext guide
on / Dual screen / off. See p. 15

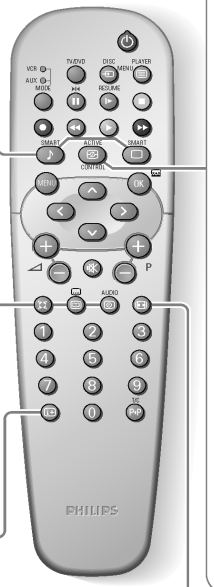
Time display
The time is displayed on the screen.

Subtitle selection
To change the subtitle language while playing a DVD. See p. 22

AUDIO Audio track selection
To change the audio track while playing a DVD. See p. 22

Screen information
Press to display information about the selected TV channel and programme, and when in DVD mode to display the status window.

Menu information
When the TV menu is on screen, press to display info on the selected menu item. While the menu info is displayed, press any key to display remote control info.



Active control
Active control is a pro-active and automatic system. The TV continuously measures and corrects all incoming signals in order to provide the best picture possible. Thanks to the Ambient Light Sensor which measures the light conditions of the room, the contrast, dynamic contrast, brightness and colour picture settings are adjusted automatically. The light sensor is active when the Active control function is switched to Medium or Maximum. Press the key repeatedly to select the Active Control values Off, Minimum, Medium (recommended) or Maximum.
Off Sharpness and Dynamic Contrast are controlled automatically
Minimum Sharpness, Dynamic Contrast and Noise Reduction are controlled automatically.
Medium Dynamic Contrast, Colour, Sharpness and Noise reduction are controlled automatically.
Maximum Contrast, Dynamic Contrast, Colour, Sharpness and Noise reduction are controlled automatically.
Press the cursor right to select **INFO+**.
The Active Control demo menu appears.
The picture settings are being adapted continuously and automatically.
The menu items cannot be selected.
The sliders will be moving, showing how the TV is tweaking the current picture. None of the sliders is user controllable.
Press the **OK** key to switch off the Demo.

Picture format
Press this key to summon a list of **available** picture formats. Press this key repeatedly or press the cursor up/down to select another picture format: Auto format, Super zoom, 4:3, Movie expand 14:9, Movie expand 16:9, Subtitle zoom, Wide screen.
Auto format makes the picture fill the screen as much as possible.
In case of subtitles in the bottom black bar, Auto format makes the subtitles visible. In case of a broadcaster logo in the corner of the top black bar, the logo disappears from the screen.
Super zoom removes the black bars on the sides of 4:3 programs with minimal distortion.
When in Movie Expand 14:9, 16:9 or Super zoom picture format, you can make subtitles visible with the cursor up/down.

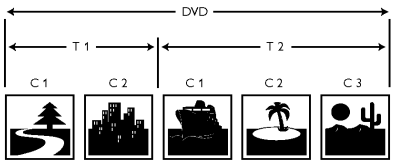
Using the built-in DVD player

The built-in DVD player allows you to play DVD Video discs as well as Video-, Super Video-, Audio- and MP3-CDs (including CD-R and CD-RW CDs). The discs can be recognised by their logo on the packaging.

Note: Generally, DVD films are not placed on the market at the same time in the various regions of the world. Accordingly, DVD players are provided with geographical zone codes (Europe: code 2, Russia: code 5). If you insert a disc which has a regional code that is different from that of your reader, you will see a message displayed on the screen. The disc cannot be played and you will have to remove it.

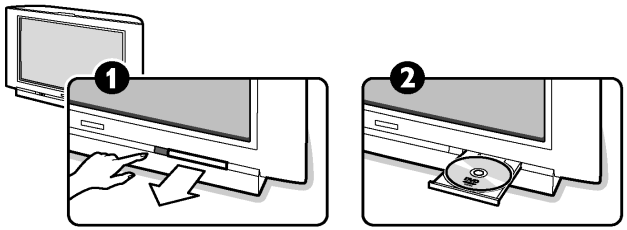
Introduction to DVD Video

The Universal DVD Video Standard offers some unique features, such as selection of different sound tracks for different languages, different subtitle languages and even multiple camera angles (disc dependent).
Depending on the material on the disc (a movie, video clips, drama series, etc.) the disc may have one or more titles which can consist of multiple chapters (also called scenes).



Loading a disc

1. Press the **OPEN/CLOSE** ⏏ button on the front of the TV or when in DVD mode, the ■ key on the remote control to open the disc tray.
2. Place your disc in the tray, label side up.
3. Press the **OPEN/CLOSE** ⏏ button or when in DVD mode, the ■ key on the remote control again to close the disc tray.



Playing a DVD or Video-CD

Press the **TV/DVD** key to switch to DVD mode.

Play
Once a disc is loaded playback starts automatically. Certain discs may ask you to make a selection from a menu. Use the digit keys or up/down left/right keys and the **OK** key to make your selection.

Stop playback
Press the ■ key to stop playback. The default screen appears and gives information on the player status.

Resume playback
When you stop a disc mid-play (by switching to standby, ejecting the disc or pressing ■), you can resume play at the exact point you stopped the disc. Simply press the **RESUME** I► key or when the I► symbol appears on-screen, press ▶ again (otherwise the disc will restart from the beginning).
Note: When temporarily switching to TV mode, and switching back to DVD mode within 10 minutes, the DVD will automatically resume.

Slow motion, fast forward and rewind
During playback, press the cursor down key repeatedly to slow play down to 1/2, 1/4 or 1/8 speed. Press the ◀◀ or ▶▶ key (or the cursor left/right) to fast forward or rewind at x4 or x32 speed. Press ▶ to return to normal speed.

Freeze-frame
Press ❚❚ or the cursor up to freeze the image. Press ❚❚ or the cursor up again to move to the next frame or ▶ to resume play.

Select title / chapter
DVD discs are divided into different chapters to allow certain scenes to be accessed directly. Press the **T/C** key to access the Title or Chapter menu directly. Use the **- P +** keys to go to the previous or next chapter.

Disc menu
Press the **DISC MENU** key to summon the menu of the DVD disc. Its contents are entirely dependent on the DVD disc. It allows access to different sections such as choice of language, direct access to scenes, bonus materials, etc. Use the cursor up/down left/right to select, the **OK** key to confirm and the **DISC MENU** key to exit.

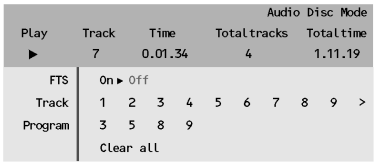
Language selection
Press the **AUDIO** key repeatedly to select the different audio languages available on the disc. A menu bar appears at the top of the screen, this will disappear after a few seconds.

Subtitle language selection
Press the [...] key repeatedly to select the different subtitle languages available on the disc. Select **off** to deactivate subtitling. The menu bar disappears after a few seconds.

Status window
Press the [i+] key to display information about the current disc.

Removing a disc
Ensure playback has stopped, then press the **OPEN/CLOSE** ⏏ button located on the front of the TV or, when in DVD mode, the ■ key on the remote control to open the disc tray.
Remove the disc.

Playing an Audio- or MP3-CD



Press the **TV/DVD** key to switch to DVD mode.

Play

Once a disc is loaded the Audio-CD screen appears. Press ▶ to start playback.

Stop playback / eject disc

Press the ■ key to stop playback.
Press ■ again or the **OPEN/CLOSE** ⏏ button on the front of the TV to eject the disc.

Moving to another track

Use **- P +** to go to the previous or next track.
Use the digit keys to skip to a certain track number.

Fast forward and rewind

During playback, press the ◀◀ or ▶▶ key to fast forward or rewind at x8 speed. Press ▶ to return to normal speed.
Note: This function is not available with MP3-CDs.

Pause playback

Press ❚❚ during playback. Press ▶ to resume.

Favourite track selection (FTS)

This function allows you to programme a selection of tracks into the memory.
Note: This function is not available with MP3-CDs.

1. Make sure playback has stopped.
2. Use the cursor up/down to select the Track line.
3. Use the cursor left/right or the digit keys to select a tracknumber. Press the **OK** key to confirm. The tracknumber appears in the **Program** line.
4. Repeat step 3 for each favourite track you wish to select (max. of 20 per disc). You can repeat the same tracknumber several times.
5. Press ▶ to play your favourite tracks.
6. To stop playing favourite tracks, position the **FTS** setting to **off**.
7. To clear the **Program** line, use the cursor down to select **Clear all** and press **OK**. To remove a tracknumber from the **Program** line, select the tracknumber in the **Program** line and press **OK**.

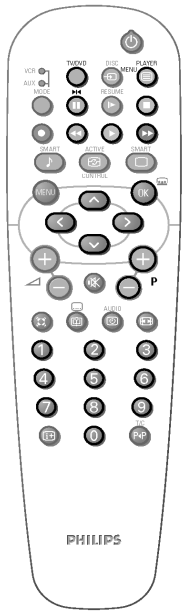
MP3 disc properties

Your built-in DVD player supports the following MP3-CD format (ISO9660)

- Max. 30 character filenames
- Max. levels of nested directories is 8
- the max. ALB number is 32
- VBR bit-rate support
- Supported MP3 sampling frequencies are: 32 kHz, 44.1 kHz, 48 kHz
- Supported MP3 bit-rates are: 32, 64, 96, 128, 192, 256 kbps
- Following formats are not supported: .WMA, .AAC, .DLF, .M3U, .PLS

Additional notes:

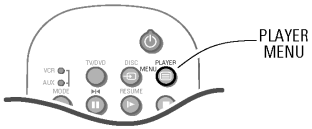
- *Chinese filenames are not supported.*
- *The CD-session must be closed.*
- *Only the first session of a multi-session CD is supported.*
- *CDs in UDF format are not supported.*
- *In compliance with the SDMI, digital audio out is muted while playing MP3-CDs.*
- *The disc reading time may exceed 10 seconds due to a large number of songs on the disc.*



The DVD Player Menu

This menu allows you to access all the special functions of the DVD player.

1. Press the **PLAYER MENU** key.
   A menu bar appears with symbols for each menu item.
2. Use the cursor left/right up/down to go through the options in the menu.
3. Use the **OK** key to confirm your selection.
4. Press the **PLAYER MENU** key repeatedly to return or to switch the menu off.



Description of the symbols

- Personal Preferences
- Subtitle Language
- Audio Language
- Frame by frame
- Slow motion
- Fast motion
- Angle
- Zoom
- **T** Title
- **C** Chapter
- Time Search
- Favourite Track Selection (FTS)

Grey symbols indicate that the option is not available.

Using the DVD Player Menu

Personal preferences

See next page.

Subtitle and audio language

On the menu bar select for the subtitling language and for audio language. Use the cursor up/down to choose your setting.
*The and **AUDIO** keys on the remote control allow you to make these settings directly.*

Frame by frame

Select and press the cursor down. The image freezes. Use the cursor left/right to move backwards or forwards frame by frame. Press ▶ to resume normal play.

Slow motion / fast motion

Select ▷ for slow motion or ▶▶ for fast motion and press the cursor down. Use the cursor left/right to select the desired speed. To resume normal speed, press ▶.

Angle

Some DVDs include sequences recorded from several camera angles. Generally a special icon will appear. Select on the menu bar and use the cursor up/down to select the angle.

Zoom

Select and press the cursor up/down to activate the zoom function with a magnification of 1.33, 2 or 4. Press **OK** and use the cursor up/down left/right to move around. Press **OK** again to confirm.

Direct access to titles and chapters

Select **T** to access the different titles available on the disk and **C** for the different chapters or film sequences. Use the cursor up/down to choose your setting.
The - P + keys on the remote control allow you to access the chapters directly.

Direct access by time

Select and press the cursor down. The image freezes. Use the digit keys to enter a precise time to go to. Press **OK**, the ▶ key or the cursor up to resume at the indicated time.

Favourite track selection (FTS)

See next page.

Personal Preferences

Press the **PLAYER MENU** key. On the menu bar select and press the cursor down to display the personal preferences menu.

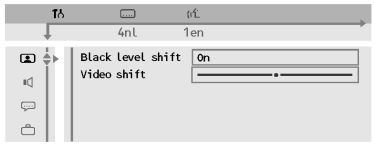


Image preferences

- **Black level shift**: to highlight the levels of black in the image (only works with NTSC images).
- **Video shift**: to move the image horizontally.

Sound preferences

- **Digital output**: allows you to choose **All** (the optical and coaxial outputs are activated), **PCM only** (the optical and coaxial outputs are activated, but for the connection of an amplifier without a multichannel digital decoder) or **Off** (no output is activated)
- **Night mode**: optimises the sound dynamics for low volume listening
- **Karaoke vocal**: only activate this function for playing special karaoke DVDs (choose **On** to hear the singing vocals)

Language preferences

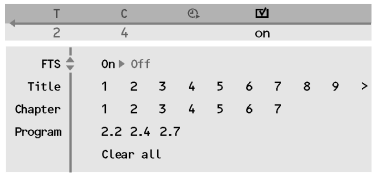
- **Audio Language**: to define the preferred language for the soundtracks of DVD films.
- **Subtitle**: to define the preferred language for subtitles on DVD films.
  Note: If the preferred language is available on the disc, it will be selected by default. If not, the first language on the disc will be activated.

Features

- **Access control** (see next page)
- **Status window**: to turn off the display of the player's status window.
- **Low power standby**: on a fixed image, the contrast automatically fades after 5 minutes.
- **PBC** (Playback Control): to activate or deactivate the possibility to directly select a title on certain Video- or Super Video-CDs.
- **Help text**: when set to on, help text describes the symbols selected in the top menu-bar.

Favourite Track Selection

This function allows you to programme a selection of your favourite chapters from the DVD into the memory.



1. Press the **PLAYER MENU** key. On the menu bar select and press the cursor down to display the favourite track selection menu.
2. Use the cursor up/down to select the Title or Chapter line.
3. Use the cursor left/right to select the number of the favourite title or chapter.
4. Press the **OK** key to confirm your selection.
5. Repeat steps 3 and 4 for each favourite title or chapter you wish to program.
   If you wish you can repeat the same track number several times. You have a maximum of 20 favourites per disc.
6. Press the **PLAYER MENU** key to exit the menu. The favourite tracks will begin playing automatically.

To stop playing favourite tracks
In the Favourite Track Selection menu, set the **FTS** setting to **off**.

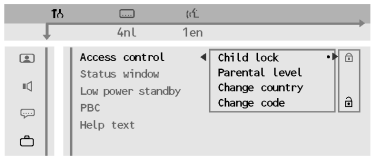
To delete favourite tracks
Select the number of the favourite track in the program line and press the **OK** key.

To delete all favourite tracks
Select **Clear all** and press the **OK** key.

Access control / Child lock

This function allows you to access various levels of security for the player.

1. Press the **PLAYER MENU** key.
2. On the menu bar select and press the cursor down to display the personal preferences menu.
3. Use the cursor up/down to select .
4. Press the cursor right twice to enter the **Access control** menu.
5. Enter a four digit access code of your choice. Enter it a second time to confirm.
   The **Access control** menu appears.

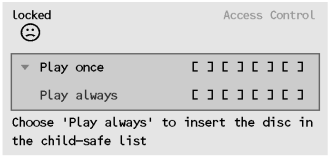


- **Child lock**: select to switch the lock on or off. When the child lock is on, you will be asked to enter a code to authorise the playback of DVDs and video CDs.
- **Parental level**: to activate the level of security from 0 (off) to 8 (maximum).
  Certain DVD discs may contain Parental control information which applies to the complete disc or to certain scenes on the disc. These scenes are rated from 1 to 8, and alternative, more suitable scenes are available on the disc. For example, if you choose level 4, all scenes of level 4 (and below) will be played. Scenes of a higher level will not be played or will be replaced by alternative scenes. If no alternative scenes are available, play will stop and you will be asked to enter the 4-digit code.
- **Change country**: select your country. This setting influences the parental levels which are country dependent.
- **Change code**: to modify the access code. You will be asked to enter the new code a second time to confirm.
  *If you have forgotten your secret code, the code can be cancelled by pressing the ■ key four times in the **Access control** dialog.*

Play authorisation

When the Child lock function is switched on you will be asked to enter your code to authorise the playing of the DVD or Video-CD.

1. Insert a disc. The 'child lock' dialogue appears.



2. You will be asked to enter your secret code for **Play once** or **Play always**.
   - If you select **Play once**, the disc can be played as long as it is in the player and the television remains on and in DVD mode.
   - If you select **Play always**, the disc will become child safe (authorised) and can always be played, even if the Child lock is set to on.

The player can memorise a list of 120 child safe discs. When the list is full and a new disc is added, the last disc in the list is removed.
Double sided DVDs and Video-CDs with multiple volumes may include a different identification for each side or volume. In this case you will have to authorise each side or volume separately.

Removing play authorisation

1. Insert a disc. Playback starts automatically.
2. When the ☺ symbol appears on screen, press the ■ key. The ☹ symbol appears and the disc is now deauthorised.

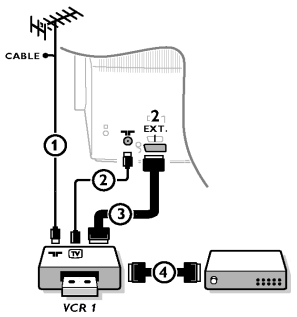
Removing the play authorisation dialogue
To deactivate the Child lock:

1. Make sure you are in DVD mode. Press the **PLAYER MENU** key.
2. Go to Personal preferences, then and then to the **Access control** menu.
3. Enter your access code and set the child lock to off.
4. Press the **PLAYER MENU** key to exit the menu.

Connect Peripheral Equipment

There is a wide range of audio and video equipment that can be connected to your TV.
The following connection diagrams show you how to connect them.

Recorder



Connect the aerial cables ①, ② and, to obtain the optimum picture quality, eurocable ③ as shown.

easy LINK

If your recorder is provided with the EasyLink function, the eurocable supplied with it should be connected to **EXTERNAL 2** *to benefit from the EasyLink functionality.*

If the eurocable ③ is not used the following steps are required:

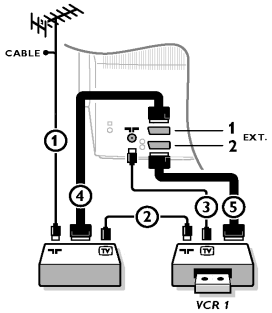
Search for and store the test signal of the recorder

1. Unplug the aerial cable ① from the aerial socket ⊓ of your recorder.
2. Switch on your TV and put the recorder on the test signal.
   (See the handbook for your recorder.)
3. Search for the test signal of your recorder in the same way as you searched for and stored the TV signals. See Installation, Store TV channels, Manual installation, p. 7.
4. Store the test signal under programme number 0 or between 90 and 99.
5. Replace the aerial cable in the aerial socket ⊓ of your recorder after you have stored the test signal.

Decoder and recorder

Connect a eurocable ④ to your decoder and to the special euroconnector of your recorder. See also the recorder handbook. See Decoder, p. 11.
You can also connect your decoder directly to **EXTERNAL 1** or **2** with a eurocable.

Recorder and other peripherals (except Digital Sources)

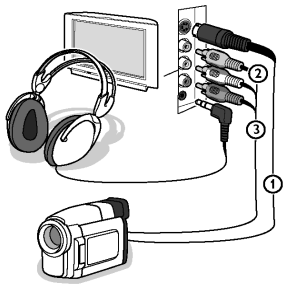


1. Connect the aerial cables ①, ② and ③ as shown. Better picture quality can be obtained if you also connect eurocable ⑤ to **EXTERNAL 2** and a eurocable ④ to **EXTERNAL 1** or **EXTERNAL 3**.
2. Look for the test signal of your peripheral in the same way as you do for a recorder.

When a recorder is connected to **EXTERNAL 1** *you can only record a programme from your TV.*
Only when a recorder is connected to **EXTERNAL 2** *it is possible to record a programme from your TV as well as from other connected equipment.*
See Record with your recorder, p. 32.

Note: ***EXTERNAL 1*** *can handle CVBS and RGB,* ***EXTERNAL 2*** *CVBS and Y/C,* ***EXTERNAL 3*** *CVBS and RGB. It is preferred to connect peripherals with RGB output to* ***EXTERNAL 1*** *or* ***3*** *as RGB provides a better picture quality.*

Side connections



Camera or camcorder

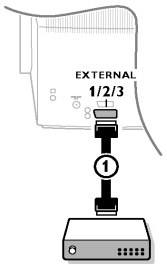
1. Connect your camera or camcorder to the sockets at the right side of your TV.
2. Connect the equipment to **VIDEO** ② and **AUDIO L** ③ for mono equipment.
3. For stereo equipment also connect **AUDIO R** ③.
   S-VHS quality with an S-VHS camcorder is obtained by connecting the S-VHS cables with the **S-VIDEO** input ① and **AUDIO** inputs ③.
   Do not connect cable ① and ② at the same time. This may cause picture distortion !

Headphone

1. Insert the plug into the headphone socket 🎧 at the right side of the TV.
2. Press 🔇 on the remote control to switch off the internal loudspeakers of the TV.
   The headphone impedance must be between 8 and 4000 Ohm.
   The headphone socket has a 3.5 mm jack.
   In the **Sound** menu select **Headphone volume** to adjust the headphone volume.

Note: The surround mode is always stereo when the headphone is connected.

Digital equipment (Digital satellite tuner, STB, DVD,...)

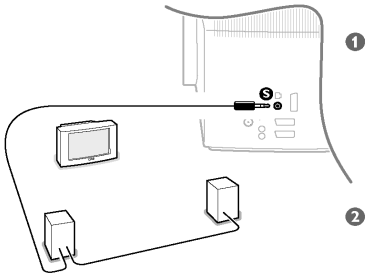


Connect your digital equipment with a eurocable ① to one of the euroconnectors (**EXT1**, **EXT2** or **EXT3**), or with a cinch cable to the **VIDEO** input at the right side of the TV.

Note: The low quality of some digital picture material may be the cause of digital image distortion. According to the connected digital equipment, select ***DVD, SAT, Game*** *or* ***Digital STB*** *in the Setup/Source menu. See p. 11.*
(In case the digital transmission is still poor, also select the ***Soft*** *setting using the Smart Picture ▭ key, without changing the picture setting manually.)*

Extra loudspeakers / Amplifier

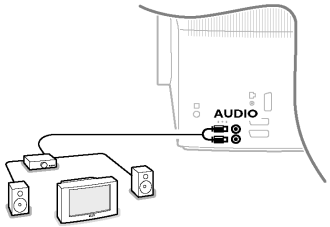
REAR multimedia loudspeakers



You can enjoy Dolby Pro Logic Surround sound by connecting two rear loudspeakers to be connected to the Dolby Surround output **S** at the back of your TV.

1. Connect two rear loudspeakers with built in amplifiers or an audio amplifier with rear loudspeakers.
   Connect the audio cables to the rear loudspeakers and to the Dolby surround output **S** at the back of your TV as shown.
   There is only one output for both speakers.
   Note: Switch off the TV and the rear loudspeakers before connecting them.
   *The surround output **S** has a 3.5 mm stereo jack.*
2. Select **Surround speakers - On** in the Setup menu. See p. 9.
   See Surround sound modes in the Sound menu, p. 13 for the available Surround modes.
   Rear Surround Sound loudspeakers should always be located behind or to either side of the listener at about 1 m above the listener.
3. Adjust the volume of the rear loudspeakers when audio distortion occurs.
   Use the Test tone function in the Speakers menu, see p. 9, to have a reference of the loudness of the separate loudspeakers.
   Note: Once you have adjusted the volume of the rear loudspeakers, do not change it while watching TV as the whole configuration operates with the volume adjustment of your TV.

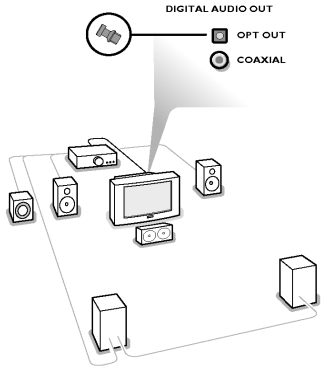
Stereo amplifier and two extra FRONT speakers



To enhance the sound reproduction of your TV you can connect two extra front loudspeakers via an external amplifier.

1. Connect the audio cables to the audio input of your amplifier and to **AUDIO L** and **R** at the back of your TV. The output level is controlled by the volume control of your TV.
   Note: Switch off the TV and your audio amplifier before connecting them. Set the audio amplifier's volume to minimum.
2. Select **Centre mode On** in the Setup, Speakers menu. See p. 9. See Surround mode in the Sound menu, p. 13 for the available Surround modes.
3. Adjust the volume of the audio amplifier.
   Use the Test tone function in the Setup, Speakers menu, see p. 9 to have a reference of the loudness of the separate loudspeakers.
   Note: Once you have adjusted the volume of the amplifier, do not change it while watching TV as the whole configuration operates with the volume adjustment of your TV.
   If extra front speakers are connected and selected, all internal TV speakers produce centre sound in the surround modes Dolby Pro Logic and Dolby 3 Stereo.

Cinema Link Surround receiver

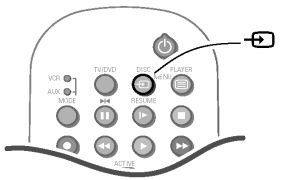


1. **For a receiver with analog input**:
   Connect the Dolby Pro Logic Surround amplifier to the **AUDIO L** and **R** at the back of your TV.
   For a receiver with coaxial digital input:
   Only for digital audio from the built-in DVD player.
   Connect a digital audio cable to the digital audio input of your receiver and to **COAXIAL** at the back of your TV.
   For a receiver with optical digital input:
   Only for digital audio from the built-in DVD player.
   Remove the cap from the optical output.
   Connect an optical audio cable to the optical audio input of your receiver and to **OPT OUT** at the back of your TV.
   Warning: The cap is a small object and could be swallowed by small children.
2. To activate the coaxial and optical digital outputs, set **Digital output** to **All** or **PCM only** in the **Sound preferences** menu of the built-in DVD player. See p.25.
3. Switch off the volume of the TV with the mute key.
   All volume settings, tone control and speaker connections have to be done via the external surround receiver.

Attention: The sound info on screen will not correspond with the actual sound reproduction.
No sound will be heard when a TV channel or external source is blocked via the Child lock menu, see p. 15.

If you want to connect more equipment to your TV, consult your dealer.

Selecting connected equipment



Equipment connected with an aerial cable only

Select the programme number under which you have stored the test signal with the digit keys.

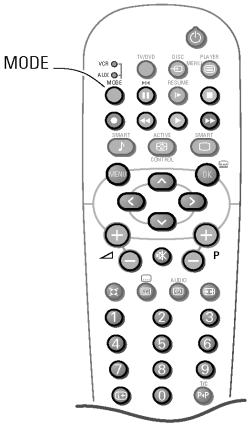
Equipment connected to a euroconnector or to the right side of the TV

1. Press the ⇥ key repeatedly to select **EXT1**, **EXT2**, **EXT3** or **SIDE** according to where you connected your equipment at the back or the right side of your TV.
   Remark : Most equipment (decoder, recorder) carries out the switching itself.
2. Press the cursor up/down and press **OK**.

If you want to change to TV channels

Enter the programme number of the TV channel you want to watch with the digit keys.

Remote control functions for peripherals



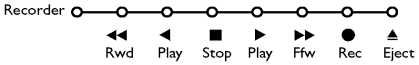
The **MODE** key takes you through the main functions of a video recorder or AV-receiver (tuner, amplifier).
The remote control is compatible with Philips devices using the RC5 or RC6 standard.

1. Press the MODE key repeatedly to select the required mode. The indicator lights up to display the selected mode. If no action has been taken during 30 seconds, the remote control returns to TV mode.
2. The following keys are operational, depending on the device:

●	record
◀◀	rewind
■	stop
▶	play
▶▶	fast forward
❚❚	pause / step
MENU	menu
OK	confirmation
cursor keys	navigation
digit keys	digit entry
- P +	programme or track selection
	display information
	tape list (VCR); RDS on/off (tuner, AV-receiver)
	VCR timer
	RDS display (tuner, AV-receiver)

Recorder with EasyLink

The recorder can be operated via the **Recorder** menu on screen.



1. Press the **MENU** key on the remote control.
2. Select the Recorder menu with the cursor up/down.
3. Press the cursor left/right, up/down to select one of the Recorder functions:
4. Press the **OK** key to confirm.

The key ● on the remote control for recording, can be operated in the TV mode.
If your EasyLink recorder has the system standby function, when you press the ⏻ key for 3 seconds, both TV and the recorder are switched to standby.

Record with your Recorder with NEXTVIEWLink

If your Recorder is equipped with NEXTVIEWLink, and you tagged one or more programmes to be recorded automatically in the NEXTVIEW mode, it is not necessary for the TV to be in the standby mode or switched on for the recording to start.

Record with your recorder without EasyLink

To record S-VHS quality, connect an S-VHS peripheral directly to the video recorder.

Record a TV programme

1. Select the programme number on your recorder.
2. Set your recorder to record.
   See the handbook of your recorder.

Switching programme numbers on your TV does not disturb recording !

Record a programme on your recorder connected to EXTERNAL 2 from Audio/Video equipment connected to EXTERNAL 1, EXTERNAL 3 or to sockets on the right side of the TV

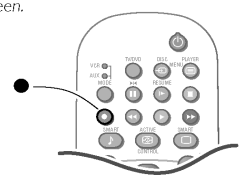
1. Switch on the equipment.
2. Select the correct external on your recorder.
3. Set your recorder to record.
   You record what you are watching on the screen.

Do not switch programme numbers or do not switch off your TV when you are recording !

Record with your recorder with EasyLink

If you have connected an S-VHS recorder provided with the EasyLink function, you can record S-VHS quality from an S-VHS peripheral connected to the right side of the TV. (E.g. from an S-VHS camcorder.)

In TV mode, it is possible to start a recording of the programme which is displayed on the TV screen. Press the record key ● on the remote control. The recorder switches on from standby and a message of what is being recorded appears on the screen.

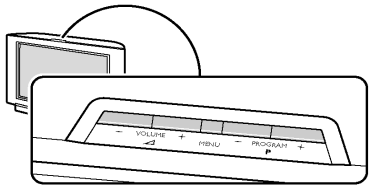


The recorder starts recording the programme you are watching.
Switching programme numbers on your TV does not disturb recording !

When recording a programme from a peripheral connected to EXTERNAL 1, 3 or SIDE, you can not select another TV programme on the screen. To watch TV programmes again, press the programme number you want to select twice. Attention: the recording is stopped and your recorder switches to standby.

If you switch to standby during recording of a programme from a peripheral connected to EXTERNAL 1, 3 or SIDE, the blinking lamp on the front of your TV indicates that you are still recording. The blinking stops after the recording is finished.

Keys on top of the TV

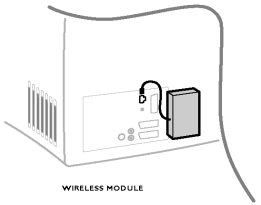


Should your remote be lost or broken you can still change some of the basic settings in the TV menu with the keys on top of your TV.

Press the ◿ - or + key to adjust the volume.
Press the **P** - and + key to browse through the TV channels or sources stored and to select them.
Press the **MENU** key to summon the main menu.
Use the ◿ - and + keys to select menu items in the horizontal axis.
Use the **P** - and + keys to select submenu items in the vertical axis.
Use the **MENU** key to confirm your selection.

Note:
- *Sometimes not all the menu items are visible on the screen; Press the **P +** key to reveal all items.*
- ***Exit** lets you dismiss the menu. Select **Exit** and press the **MENU** key.*

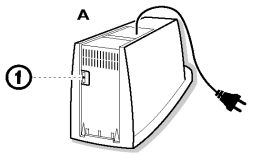
Appendix: Wireless Surround speaker system



Wireless transmitter module

- Switch the TV off with the power switch.
- Attach the wireless module to the back of the TV as shown.

  Note: Make sure you switch the TV on only after you have plugged in the wireless module.
- Connect the attached cable to the wireless module connector.
- Switch the TV on.



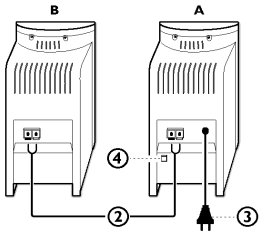
Surround loudspeakers

There are two surround loudspeakers supplied. One is the active loudspeaker A. The other loudspeaker B is a passive one which has to be connected with the active loudspeaker.

- The slide channel switch ① at the bottom of the active loudspeaker has been set default to channel 1 in the factory.
- Connect the active to the passive loudspeaker with the supplied speaker cable ②. Insert the marked wire into the openings of the same coloured connector clips on both speakers. Do not insert the wires too far.
- The Surround sound loudspeakers can be located behind or to either side of the listener. The front of the loudspeakers do not have to face the listener. The distance between the TV and the surround speakers should not exceed 15 m.

  Note: In rare occasions people moving around close to the TV may interfere with the sound transmission.
- Connect the active loudspeaker to the mains with the mains cable ③.
- Switch on the active loudspeaker with the **POWER** switch ④.

  The red indicator at the front of the active surround speaker shows that the speaker is in standby. During sound transmission the indicator turns to green.
  10-15 min. after the sound transmission of the TV has stopped, the indicator turns back to red to indicate the low power standby.
  To switch the active speaker off, use the **POWER** switch.



Setup - Speakers menu

- Press the **MENU** key on the remote control.
- Use the cursor down to select **Setup**.
- Use the cursor right to select **Speakers**.
- Use the cursor down to select **Wireless surround**.

The system has already been configured in the factory to work properly. In rare circumstances, interference from external RF (wireless) equipments such as RF headphones, mobile phones or remote controls for lights, may occur. Then it may be necessary to shift to another wireless channel.

Important: Always be sure that the active surround speaker (A) and the Wireless surround setting are switched to the same transmitting channel. Otherwise no sound or only a distorted sound will be heard on the surround speakers.

- Select **FM transmitter** and select the correct type of transmitter, 864 MHz or 433 MHz, valid for the country where you are now located.

  When the TV is tuned to a channel in the neighbourhood of 864 MHz (alternatively 433 MHz), the transmitter is switched off because no RF surround sound is possible. This is necessary to avoid interfered picture.

  In rare cases, when no RF surround sound is possible or when there is too much interference, use the wired back up solution with a 3.5 mm stereo jack (if provided). In this case select Off in the Wireless surround menu item. See Connect Peripheral Equipment, p. 29.

Tips

Care of the screen
Clean the TV with a slightly damp soft cloth. Do not use abrasive solvent as it can damage the TV screen.

Mobile telephone warning !
To avoid disturbances in picture and sound, malfunctioning of your TV or even damage to the TV, keep away your mobile telephone from the TV.

DVD player disc tray
Avoid leaving the disc tray open for long periods of time to prevent dust from entering the player and to prevent the tray from accidentally breaking off.

Poor Picture
- Have you selected the correct TV system?
- Is your TV or house aerial located too close to loudspeakers, non-earthed audio equipment or neon lights, etc.?
- Mountains or high buildings can cause double pictures or ghost images. Sometimes you can improve the picture quality by changing the direction of the aerial.
- Is the picture or teletext unrecognisable? Check if you have entered the correct frequency. See Installation, p. 7.
- Are brightness, sharpness and contrast out of adjustment? Select Factory settings in the Setup menu, p. 10.
- Sometimes poor picture quality is possible when having activated an S-VHS camera or camcorder connected to the right side of your TV and another peripheral is connected to **EXT1**, **EXT2** or **EXT3** at the same time. In this case switch off one of the other peripherals.

No picture
- Is the aerial connected properly?
- Are the plugs tightly connected in the aerial socket?
- Is the aerial cable in good condition and does it have suitable plugs?
- Are the connection facilities to a possible second TV in good condition? If in doubt, consult your dealer.

No sound
- No sound on any channel? Check the volume isn't at minimum.
- Is the sound interrupted with the mute key 🔇? Check if your speaker configuration corresponds with the selections made in the Setup, Speakers menu, p. 9. E.g. is your amplifier switched on when you have 2 extra front speakers connected?
- No sound from the rear speakers or the centre speakers? Select an appropriate surround mode, according to the broadcasted sound signal or adjust the volume or check if the wireless transmitter is properly connected. See Surround Modes, p. 13.

Remote control
- If your TV no longer responds to the remote control, the batteries may be dead or the wrong mode (TV or other peripheral, see p. 31) is selected.
- You can still use the **MENU** key and the -/+ keys at the top of your TV.

The DVD player doesn't work
Make sure that the disc is not scratched and it is clean. Clean the disc with a soft cloth, wiping from the centre to the edge.

No surround sound
- Check if the headphone is not plugged in.
- Check if the channel is broadcasting good quality surround sound.

Wireless Surround speaker system
- Are the active surround speaker and the Surround Sound setting in the Setup menu switched to the same transmitting channel?
- External RF equipment, mobile telephones or people moving around close to the TV may disturb the sound transmission.
- When no RF surround sound is possible, or when there is too much interference, try to switch to another wireless channel or use the wired back up solution. See Connecting extra loudspeakers / amplifier, p. 29.
- When you switch to another wireless channel, take care to select the same transmitting channel as well in the setup menu as on the speaker box.
- For wireless transmitter modules with a built in antenna: direct the antenna to achieve the best reception.

No solution
Switch your TV off and then on again once.

Never attempt to repair a defective TV yourself.
Check with your dealer or call a TV technician.
Caution: Visible and invisible laser radiation when open. Avoid exposure to beam.

End of life directives
Philips is paying a lot of attention to producing environmentally-friendly in green focal areas. Your new TV contains materials which can be recycled and reused. At the end of its life specialised companies can dismantle the discarded TV to concentrate the reusable materials and to minimise the amount of materials to be disposed of.
Please ensure you dispose of your old TV according to local regulations.

How to dispose of dead batteries?
The batteries supplied do not contain the heavy metals mercury and cadmium. Nevertheless in many countries dead batteries may not be disposed of with your household waste. Please ensure you dispose of dead batteries according to local regulations.

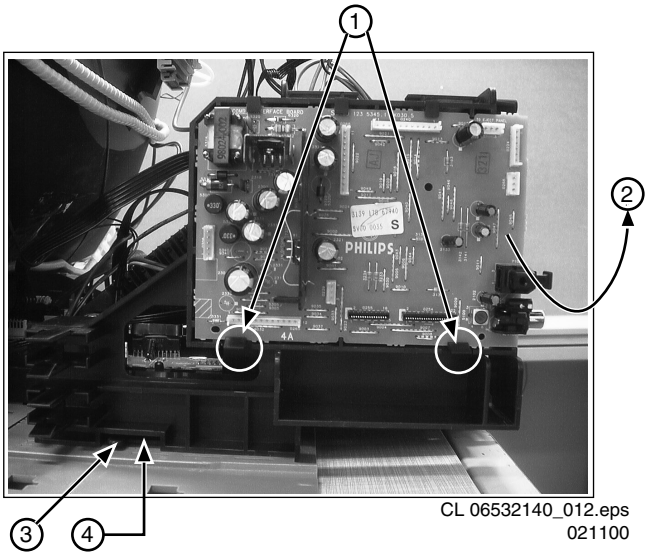
4. Mechanical instructions

4.1 Service Positions

The following PWB's or modules are added for DVD (see also PWB location drawing):
1. DVD Interface panel.
2. DVD Module.

4.1.1 DVD Interface Panel

- For better accessibility of the panel, remove the complete PWB from its bracket. Therefore release the two clamps at the side of the bracket [1] and lift the panel out [2], (see figure “DVD interface board”). (For measuring safely when the LSP is in service position, remove the bracket from the bottom tray by pulling it backward while lifting the clamp [3]. Then pull it upward [4], and replace the panel into the bracket.)



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021100

Figure 4-1 DVD interface board.

4.1.2 DVD Module

- Remove the cables from connectors 1501, 1600, 1603 and 1604 on the DVD module.
- Remove the DVD lock plate [1]. Therefore lift the two clamps [2] (see Figure “DVD lock plate removal”) and pull back the lock plate.
- Remove the DVD-interface module from the bottom tray. Therefore lift the backside of the module and pull the module backwards, (see figures hereunder).

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050702

Figure 4-2 DVD lock plate removal.

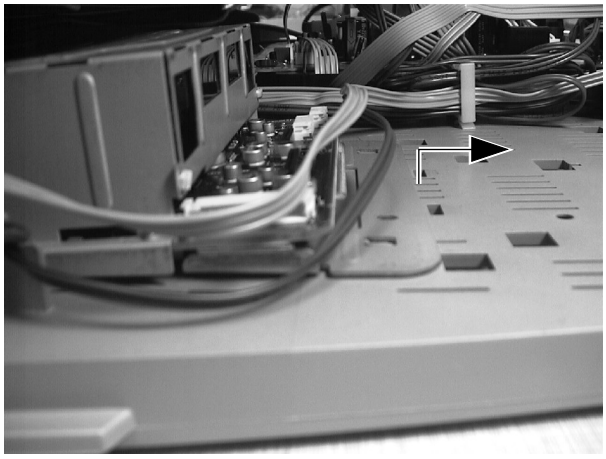

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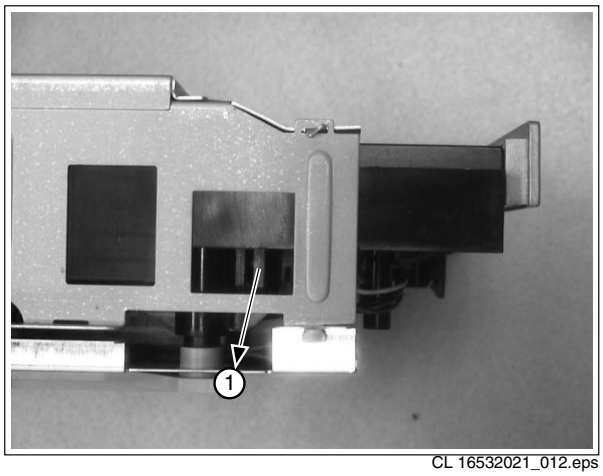
Figure 4-3 Release DVD module.

4.1.3 DVD Board

- Press the DVD-tray release catch [1] and slide the DVD tray forward, (see figure “DVD-tray release catch.“). Be sure to push it in far enough, a screwdriver might be needed.
- Unscrew four fixation screws [1], and remove the screws, (see figure “DVD fixation screws”).
- Remove 2 fixation screws, on metal bottom cover.
- Un-twist the three lugs and take off the metal cover. The DVD board can now be accessed.



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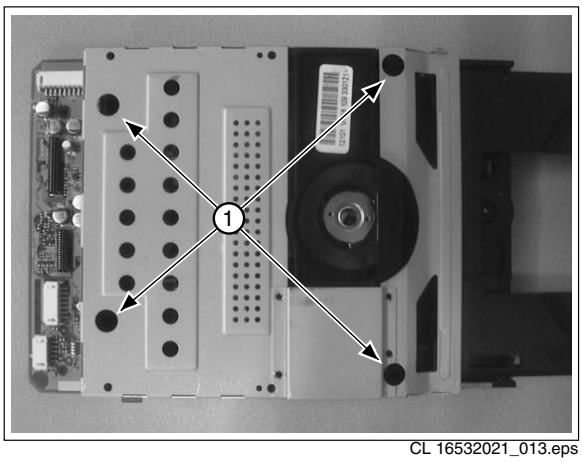
300301

Figure 4-4 DVD-tray release catch.



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300301

Figure 4-5 DVD fixation screws.

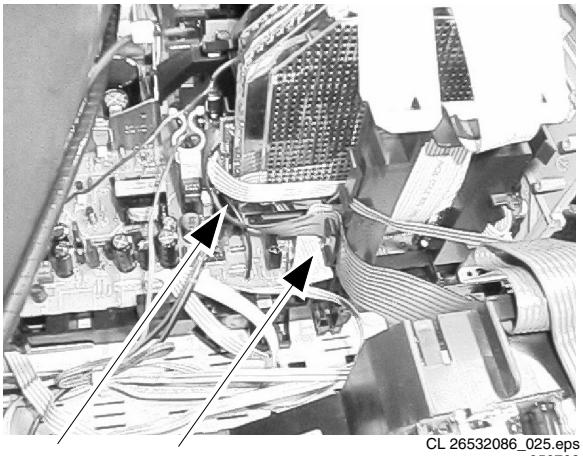

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Figure 4-6 Cable routing 1

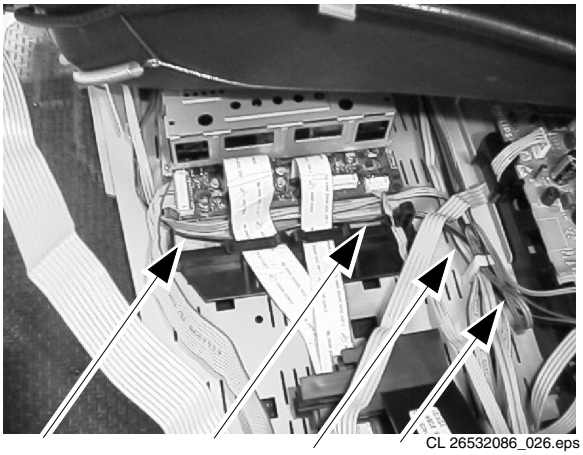

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Figure 4-7 Cable routing 2.

4.1.4 DVD Eject Switch

- To access the DVD eject switch, unscrew the two fixation screws and pull the switch out of the cabinet. Remove the switch cable if necessary. The switch panel can now be removed.
- To reassemble the switch, make sure that the cable is fixed before mounting.

4.1.5 Attention Point

- The routing of some cables is very critical. So therefore, take care that the cables are routed as shown in pictures hereunder. Not routing the cables in this way can cause problems like picture disturbance and EMC problems.
  - Routing of the cable between LSP connector 1936 and DVD Interface connector 0240 (blue 11-pins cable): guide the cable as close as possible to the SSB shielding en than between the cable relief of the scavem-assy (Auto-scavem board itself is not present in EM5E-DVD), and from there to the DVD-interface. (See figure “Cable routing 1”)
  - Routing of speaker cable and top control cable: make sure this cables are routed between the DVD lock plate and the DVD board. Also make sure to guide them underneath the two flat foil cables. (See Figure “Cable routing 2.”)

5. Fault Finding and Repair Tips

For additional technical information on the EM5E TV set, see Service Manual 'EM5E AA' (3122 785 12560) and for additional technical information on the DVD Module, see Service Manual 'DVD Module SD-3' (3122 785 11010) and Service Information 'DVD SD3 Monoboard' (3122 785 40490).

5.1 Error Codes

Two new error codes are introduced for the EM5E-DVD, Error 29 and 31, see table below.

Table 5-1 Error code table.

Error	Device	Description	Def. item	Defect. Module indication	Diagram
29	PCF8574AT	DVD Interface	7150	DVD Interface	MM1
31	--	DVD Engine		DVD Engine	DVD Engine

5.2 ComPair

First install the ComPair Browser software before connecting ComPair to the EM5E-DVD (see the ComPair Browser Quick Reference Card for installation instructions). In the EM5E-DVD, you must diagnose the TV (plus DVD-interface panel) and the DVD-module separately. Always start the diagnosis by connecting the ComPair tool to the TV set. If something is wrong with the DVD-module, ComPair will explain how and when to connect the ComPair tool to the DVD-module.

Connection to the TV set:

1. Connect the RS232 interface cable to a free serial (COM) port of the PC, and to the ComPair interface PC connector (connector marked with 'PC').
2. Connect the mains adapter to the connector marked 'POWER 9V DC' of the ComPair interface.
3. Switch the ComPair interface OFF.
4. Switch the television set OFF with the mains switch.
5. Connect the interface cable (3122 785 90004) to the connector on the rear side of the ComPair interface that is marked 'I2C'

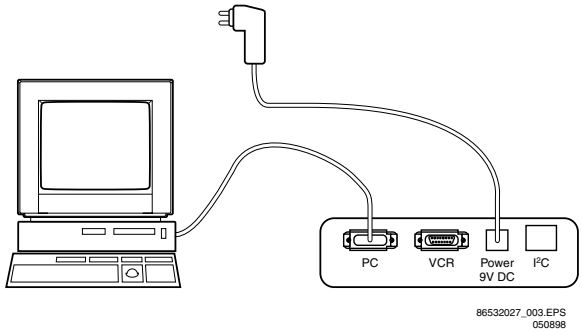


Figure 5-1 ComPair Interface Connection.

1. Connect the other end of the interface cable to the ComPair connector on the rear-side of the set.
2. Plug the mains adapter in the mains outlet and switch ON the interface. The green and red LEDs light up together. The red LED extinguishes after approx. 1 second (the green LED remains lit).
3. Start-up ComPair and select 'File' menu, 'Open'..; select 'EM5E-DVD' and click 'OK'.
4. Follow the instructions given on the screen for further diagnosis (note that the OSD works but that the actual user control is disabled).

Connection to DVD-module:

1. Follow the instructions given on the screen for further diagnosis.
2. Use the DVD ComPair interface cable (3122 785 90017) to connect the DVD Module to the ComPair interface (connector 1602).

5.3 Ordering ComPair

ComPair order codes:
ComPair interface cable (for EMX chassis): 3122 785 90004
ComPair interface cable (for DVD-module): 3122 785 90017

5.4 Reconnecting Cables to DVD Interface Panel

When all cables are removed from the DVD Interface Panel attention has to be paid when reconnecting the 11 pins connectors coming from the Side I/O panel and LSP. The cables have to be connected as follows (for correct connection see also wiring diagram):

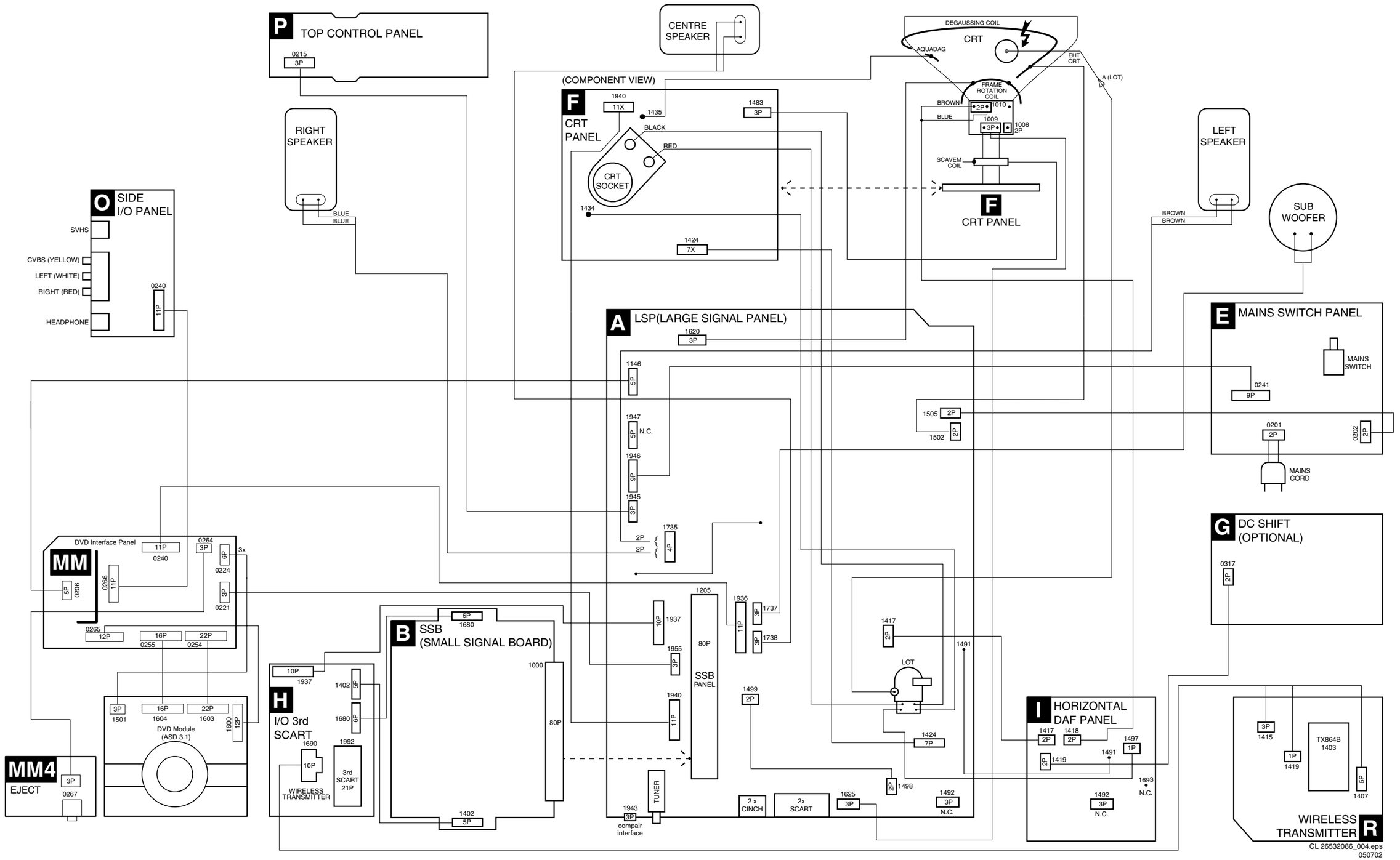
- Connect cable (11p) from the LSP (pos. nr. 1936) to pos. nr. 0240 on the DVD Interface Panel.
- Connect cable (11p) from the Side I/O panel (pos. nr. 0240) to pos. nr. 0266 on the DVD Interface Panel.

5.5 Repair Tips

- When re-assembling the DVD board or DVD Interface make sure the routing of the cables is as instructed in chapter "Mechanical Instructions". Incorrect routing can lead to picture disturbance (vertical dark bars in DVD mode) or EMC problems.
- When DVD door does not open, check Service Alignment Mode - 'Dealer Options' - 'Personal Options' - 'DVD door lock': this must be set to 'NO'. This option can be used to lock the DVD door in demonstration situations

6. Wiring Diagram, Block Diagrams and Overviews

Wiring Diagram



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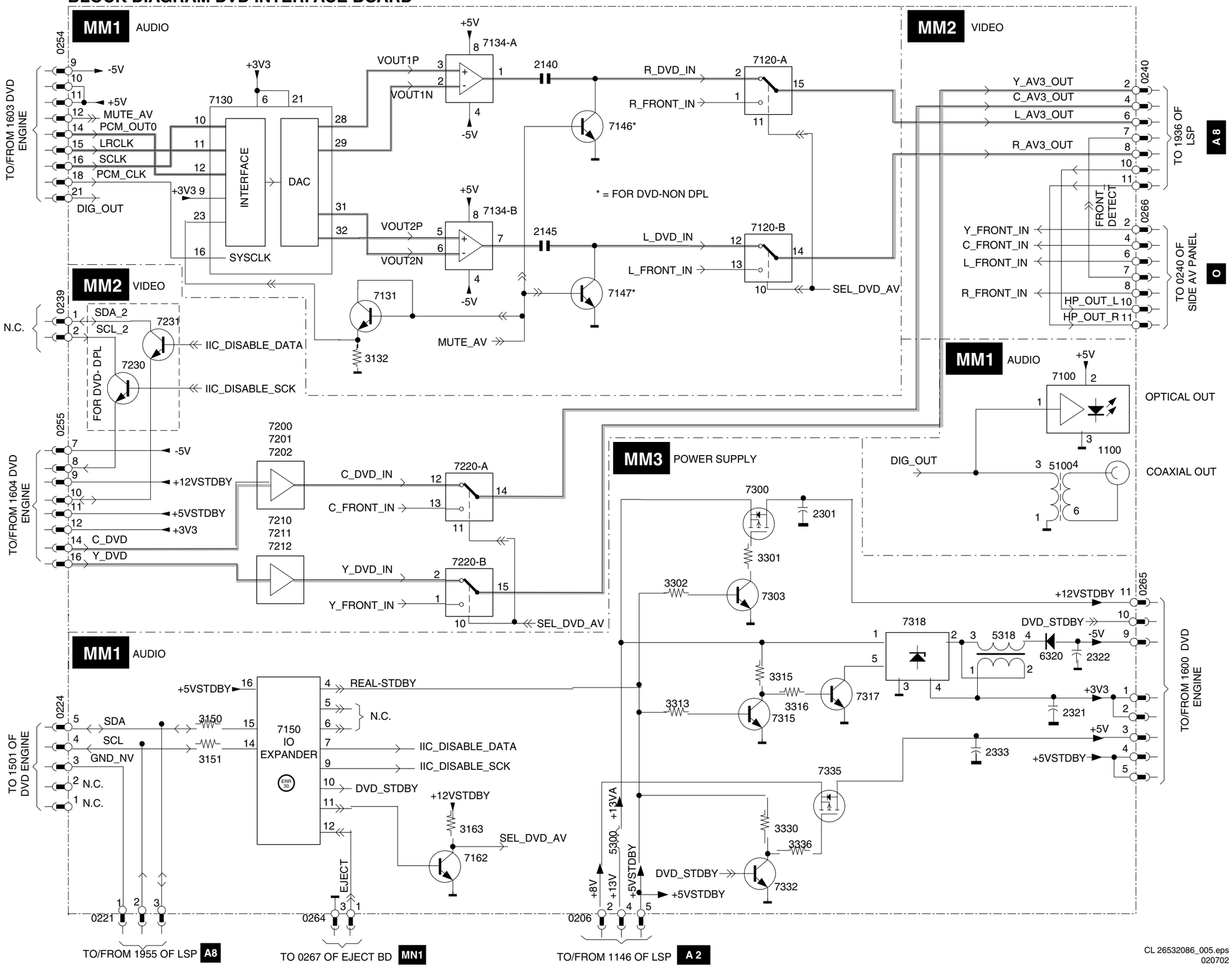
Block Diagram DVD-Dolby Interface Panel

BLOCK DIAGRAM DVD INTERFACE BOARD



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Block Diagram Video

VIDEO

A8 TUNER, SIMM-CONNECTOR (FEMALE)

B1 SIM CONN. (MALE)

B2 IF, I/O VIDEOPROC. (HIP)

B3A PICNIC

B4 HOP

B1 SIM CONN.

A8 SIM CONN.

B3B FALCONIC

A11 INPUT/OUTPUT (VIDEO PART)

B5 OTC

DVD ENGINE (ASD 3.1)

DVD INTERFACE PANEL

H I/O 3RD SCART (VIDEO PART)

B6

MM2 VIDEO

O SIDE I/O

F CRT/SCAVEM PANEL

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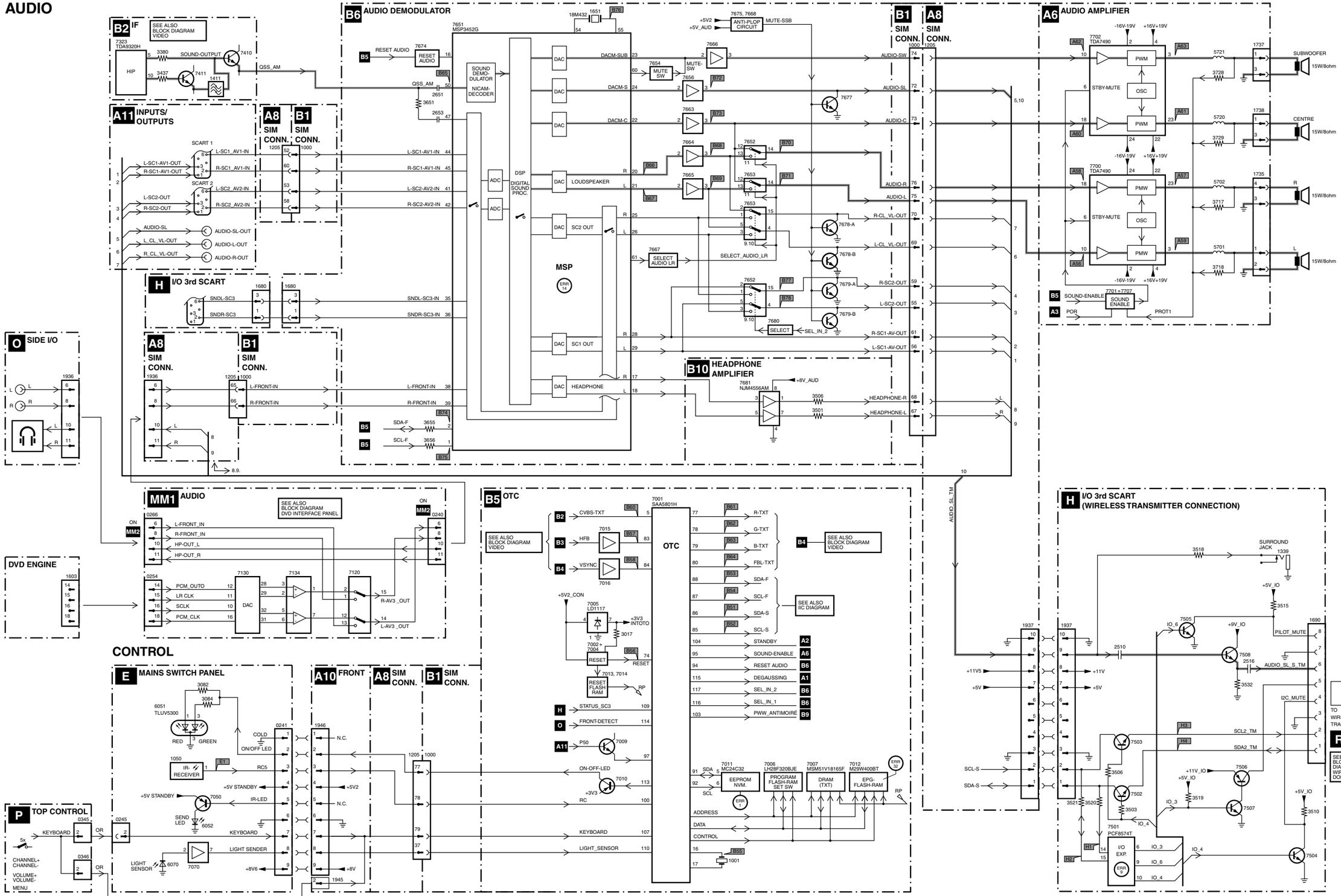
Block Diagram Audio

AUDIO



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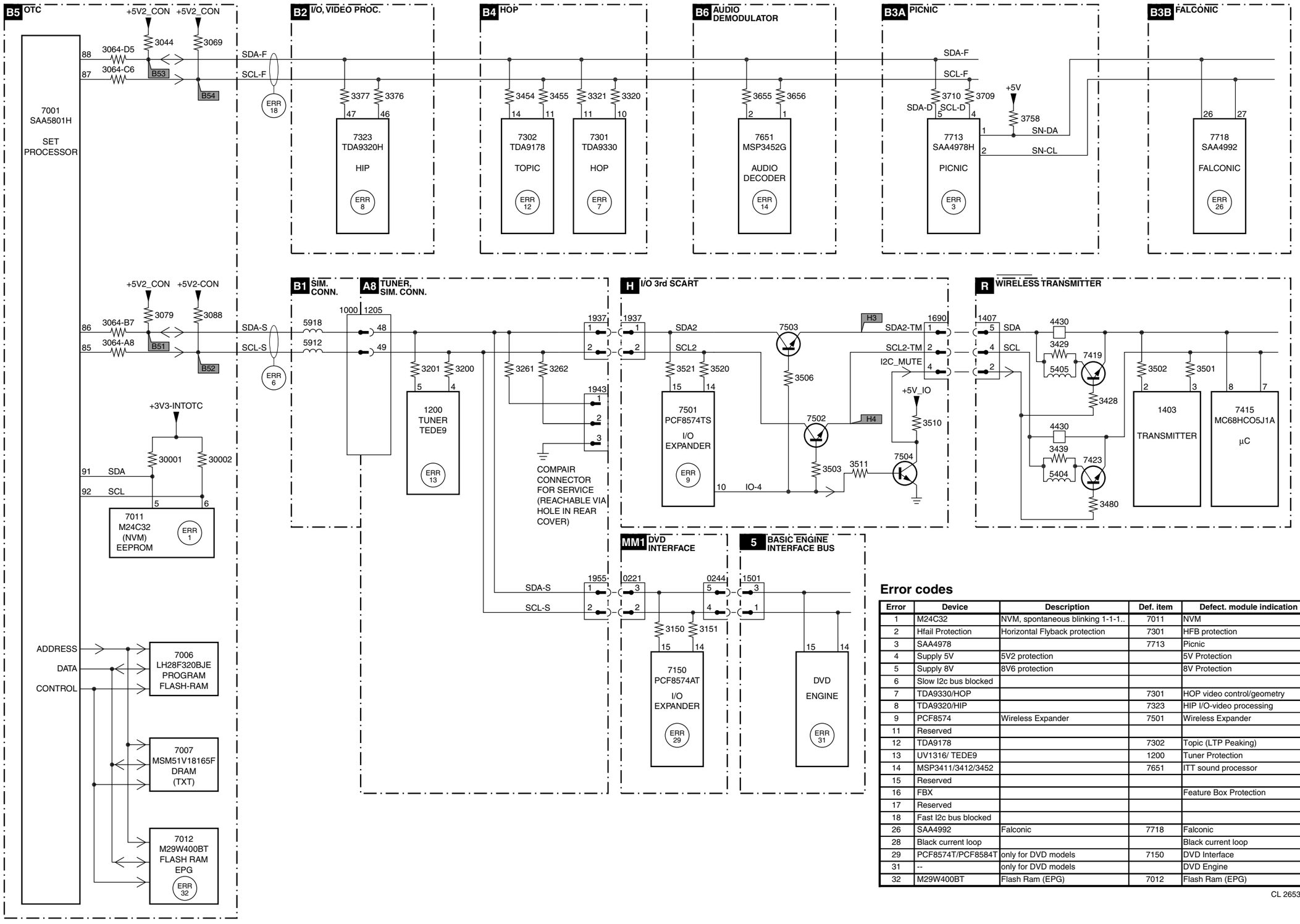
I²C IC's Overview

IIC



Error codes

Error	Device	Description	Def. item	Defect. module indication	Diagram
1	M24C32	NVM, spontaneous blinking 1-1-1..	7011	NVM	B5
2	Hfail Protection	Horizontal Flyback protection	7301	HFB protection	B4
3	SAA4978		7713	Picnic	B3a
4	Supply 5V	5V2 protection		5V Protection	B5
5	Supply 8V	8V6 protection		8V Protection	B5
6	Slow I2c bus blocked				B5
7	TDA9330/HOP		7301	HOP video control/geometry	B4
8	TDA9320/HIP		7323	HIP I/O-video processing	B2
9	PCF8574	Wireless Expander	7501	Wireless Expander	H
11	Reserved				
12	TDA9178		7302	Topic (LTP Peaking)	B4
13	UV1316/ TEDE9		1200	Tuner Protection	A8
14	MSP3411/3412/3452		7651	ITT sound processor	B6
15	Reserved				
16	FBX			Feature Box Protection	B3
17	Reserved				
18	Fast I2c bus blocked				B5
26	SAA4992	Falconic	7718	Falconic	B3b
28	Black current loop			Black current loop	
29	PCF8574T/PCF8584T	only for DVD models	7150	DVD Interface	MM1
31	--	only for DVD models		DVD Engine	
32	M29W400BT	Flash Ram (EPG)	7012	Flash Ram (EPG)	B5

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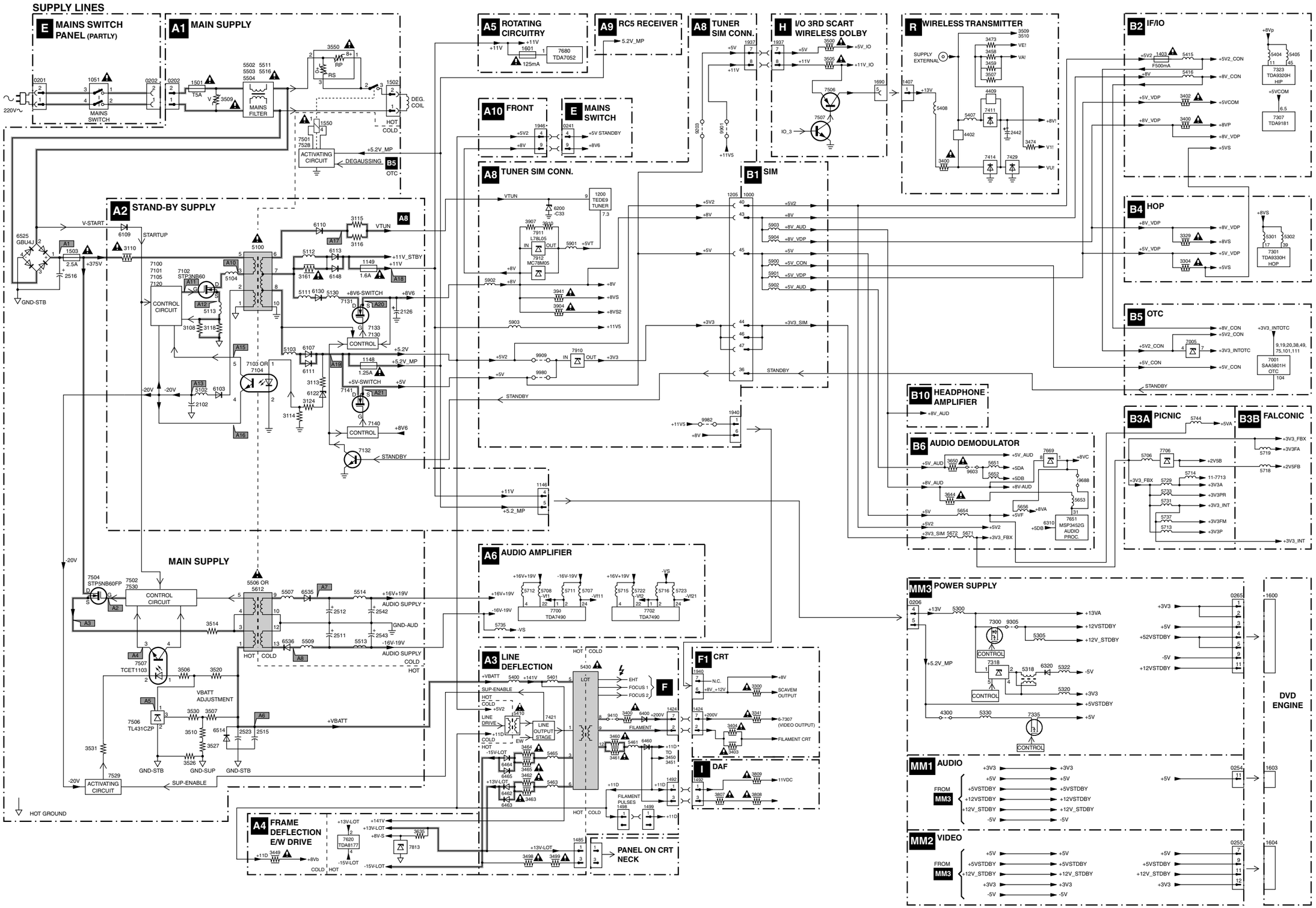
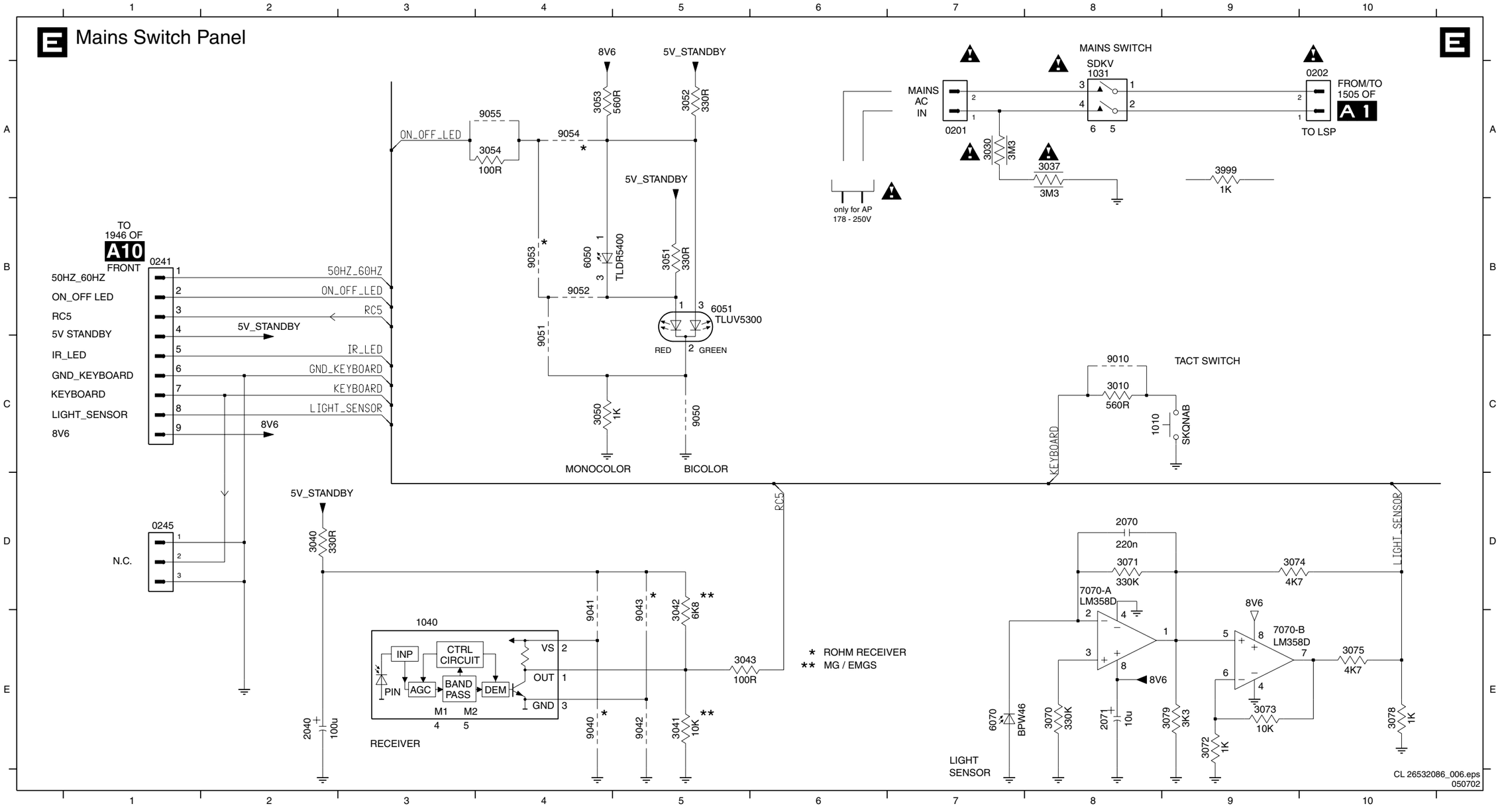
Supply Lines Overview



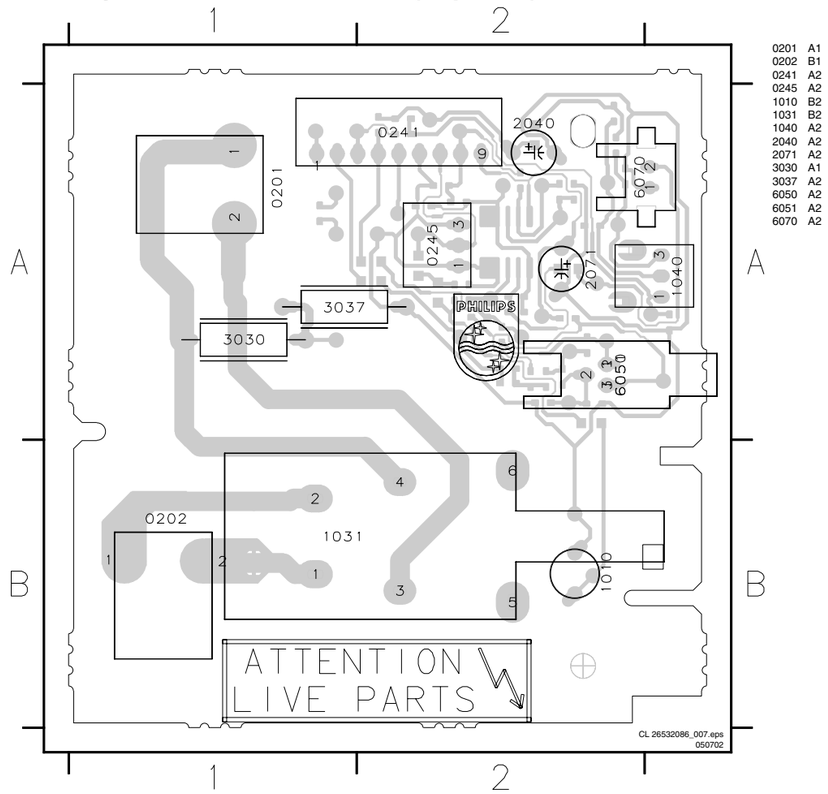
7. Circuit Diagrams and PWB Layouts

Mains Switch Panel

0201 A7 0202 A10 0241 B1 | 0245 D1 1010 C8 1031 A8 | 1040 E3 2040 E2 2070 D8 | 2071 E8 3010 C8 3030 A7 | 3037 A8 3040 D2 3041 E5 | 3042 E5 3043 E5 3050 C4 | 3051 B5 3052 A5 3053 A4 | 3054 A4 3070 E8 3071 D8 | 3072 E9 3073 E9 3074 D9 | 3075 E10 3078 E10 3079 E9 | 3999 A9 6050 B4 6051 B5 | 6070 E7 7070-A D8 7070-B E9 | 9010 C8 9040 E4 9041 E4 | 9042 E5 9043 E5 9050 C5 | 9051 C4 9052 B4 9053 B4 | 9054 A4 9055 A4

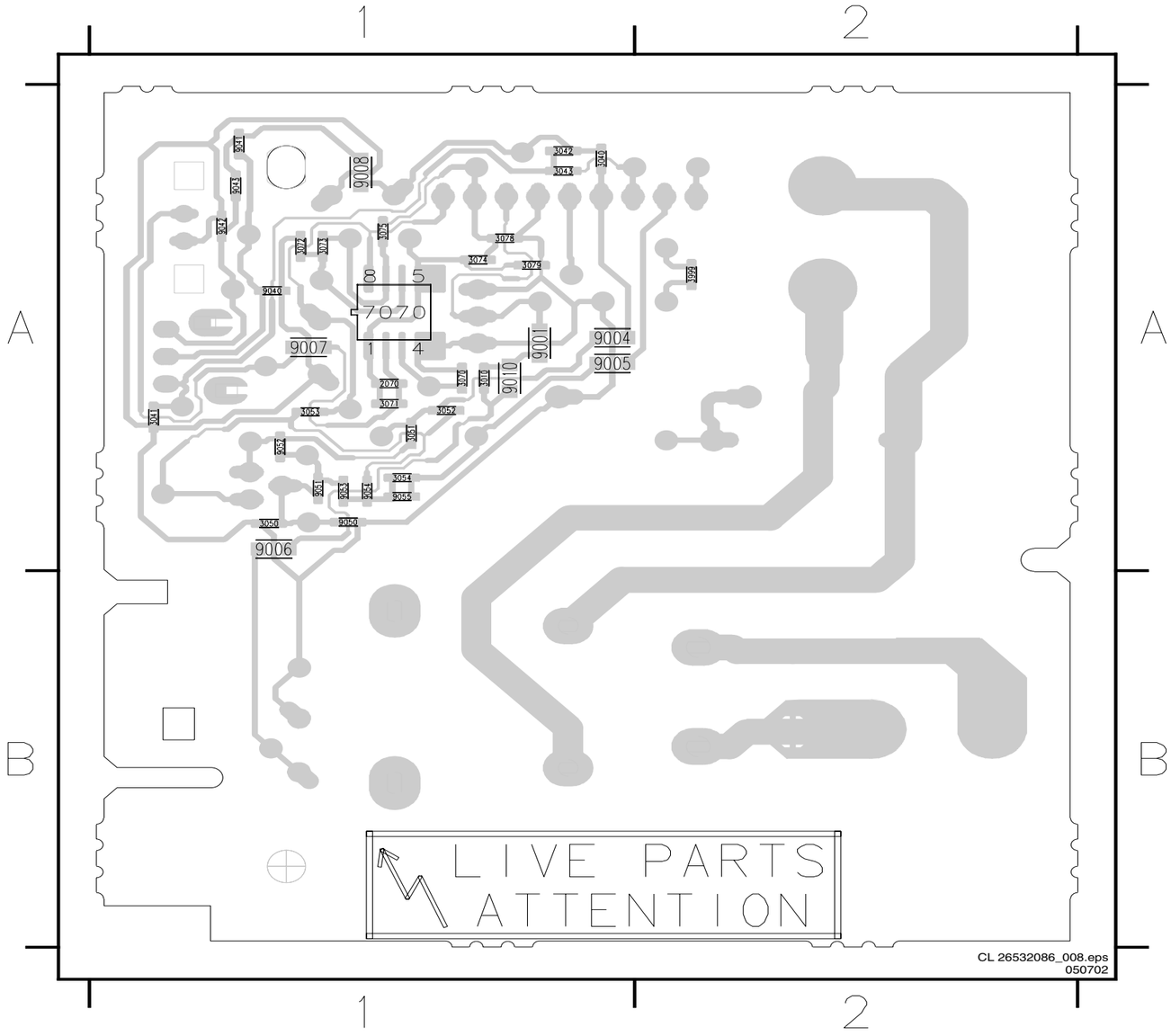


Layout Mains Switch Panel (Top Side)



0201 A1
0202 B1
0241 A2
0245 A2
1010 B2
1031 B2
1040 A2
2040 A2
2071 A2
3030 A1
3037 A2
6050 A2
6051 A2
6070 A2

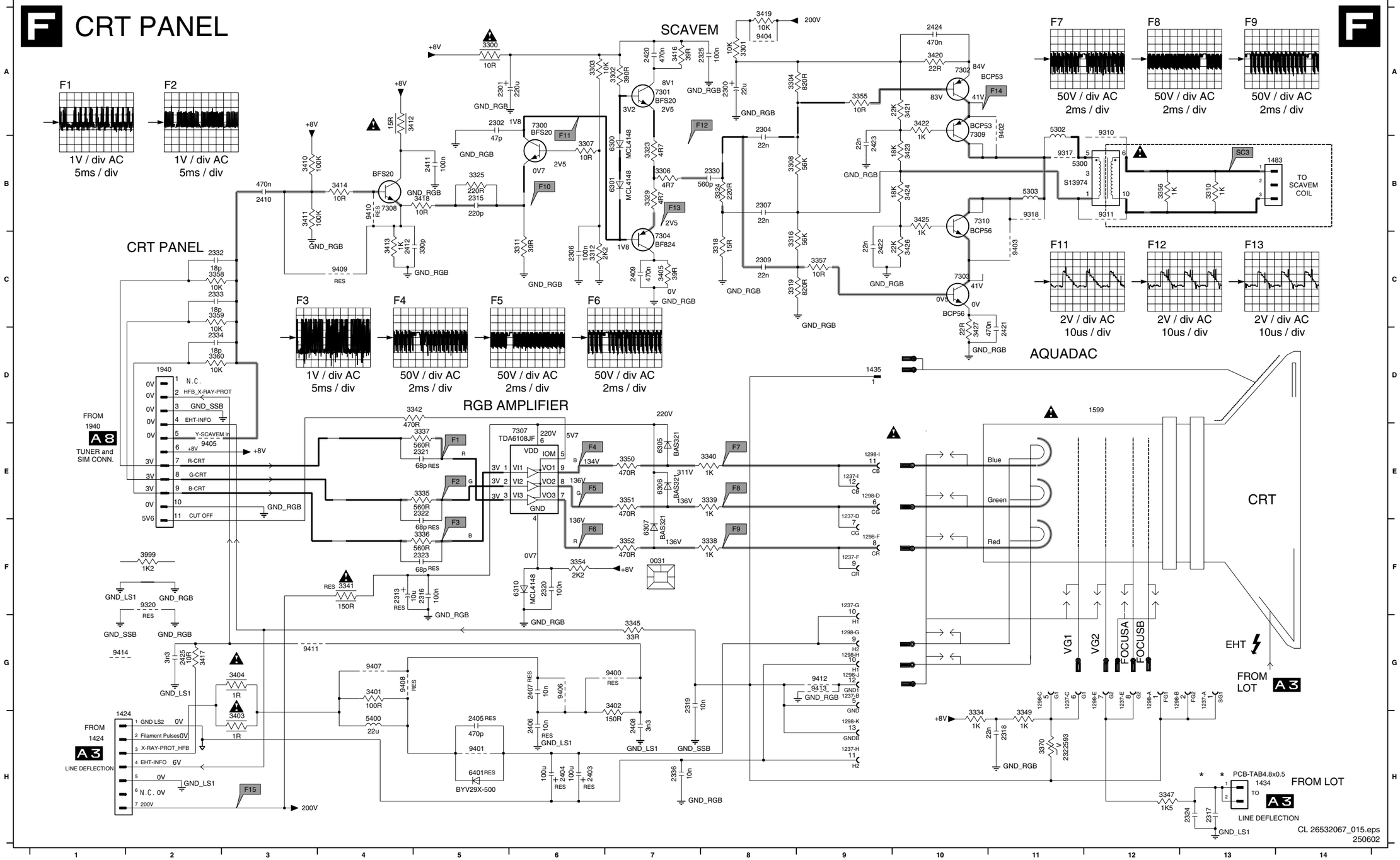
Layout Mains Switch Panel (Bottom Side)



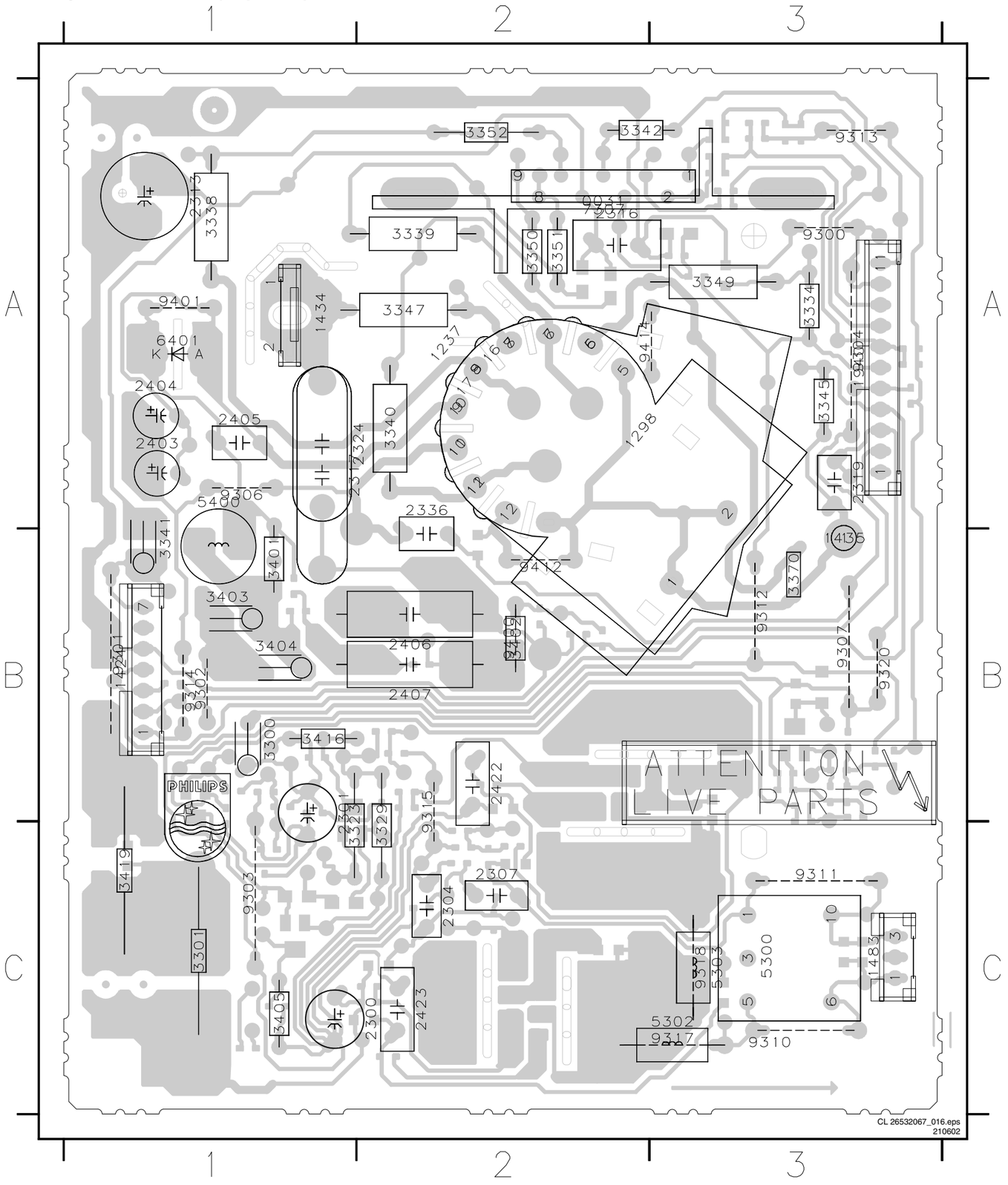
0201 A2
0202 B2
0241 A2
0245 A1
1010 B1
1031 B1
1040 A1
2040 A1
2070 A1
2071 A1
3010 A1
3030 A2
3037 A2
3040 A1
3041 A1
3042 A1
3043 A1
3050 A1
3051 A1
3052 A1
3053 A1
3054 A1
3070 A1
3071 A1
3072 A1
3073 A1
3074 A1
3075 A1
3078 A1
3079 A1
3999 A2
6050 A1
6051 A1
6070 A1
7070 A1
9001 A1
9004 A1
9005 A1
9006 A1
9007 A1
9008 A1
9010 A1
9040 A1
9041 A1
9042 A1
9043 A1
9050 A1
9051 A1
9052 A1
9053 A1
9054 A1
9055 A1

CRT Panel

0031 F7 1237-A G13 1237-B G9 1237-C G11 1237-D E9 1237-E G12 1237-F F9 1237-G F9 1237-H H9 1237-I E9 1298-A G12 1298-B G12 1298-C G11 1298-D E9 1298-E G12 1298-F F9 1298-G G9 1298-H G9 1298-I E9 1298-J G9 1298-K H9 1424 H2 1434 H13 1435 D9 1483 B13 1940 D2 2300 A8 2301 A5 2302 A5 2304 A8 2306 C6 2307 B8 2309 C8 2313 F4 2315 B5 2316 F5 2317 H13 2318 H11 2319 G7 2320 F6 2321 E5 2322 E5 2323 F5 2324 H13 2325 A8 2330 B8 2332 C2 2333 C2 2334 D2 2336 H7 2403 H6 2404 H6 2405 H5 2406 H6 2407 G6 2408 H7 2409 C7 2410 B3 2411 B5 2412 C4 2420 A7 2421 D11 2422 C9 2423 B9 2424 A10 2425 G2 2426 C7 3300 A10 3301 A10 3302 A10 3303 A10 3304 A8 3306 B7 3307 B8 3308 B8 3310 B13 3311 C6 3312 C6 3314 F5 3315 E5 3316 C8 3317 C8 3318 C8 3319 C8 3320 F8 3321 E8 3322 E8 3323 B7 3324 B8 3325 B5 3326 B5 3327 E5 3328 E5 3329 B7 3330 E7 3331 E7 3332 F7 3333 F7 3334 H10 3335 E5 3336 F5 3337 F5 3338 F8 3339 E8 3340 E8 3341 F4 3342 D6 3343 D6 3344 D6 3345 D6 3346 D6 3347 D6 3348 D6 3349 D6 3350 A10 3351 A10 3352 A10 3353 A10 3354 A10 3355 A9 3356 B12 3357 C9 3358 D5 3359 C2 3360 D2 3361 D2 3362 D2 3363 D2 3364 D2 3365 D2 3366 D2 3367 D2 3368 D2 3369 D2 3370 H11 3371 H11 3372 H11 3373 H11 3374 H11 3375 H11 3376 H11 3377 H11 3378 H11 3379 H11 3380 H11 3381 H11 3382 H11 3383 H11 3384 H11 3385 H11 3386 H11 3387 H11 3388 H11 3389 H11 3390 H11 3391 H11 3392 H11 3393 H11 3394 H11 3395 H11 3396 H11 3397 H11 3398 H11 3399 H11 3400 H11 3401 G4 3402 G7 3403 H3 3404 G7 3405 C7 3406 C7 3407 C7 3408 C7 3409 C7 3410 B3 3411 B3 3412 A4 3413 C4 3414 B4 3415 A7 3416 C10 3417 C10 3418 C10 3419 A8 3420 A10 3421 A10 3422 A10 3423 B10 3424 B10 3425 B10 3426 C10 3427 D10 3999 F2 5300 B11 5302 A11 5303 B11 5400 H4 6300 B7 6301 B7 6303 E7 6305 E7 6306 E7 6307 F7 6310 F6 7300 A6 7301 A7 7302 A10 7303 C10 7304 C7 7307 E6 7308 B4 7309 A10 7310 B10 9310 A12 9311 B12 9317 B11 9318 B11 9320 F2 9400 G7 9401 H5 9402 A11 9403 C11 9404 A8 9405 E2 9406 G6 9407 G4 9408 G4 9409 C4 9410 B4 9411 G3 9412 G9 9413 G9 9414 G1 9415 G1

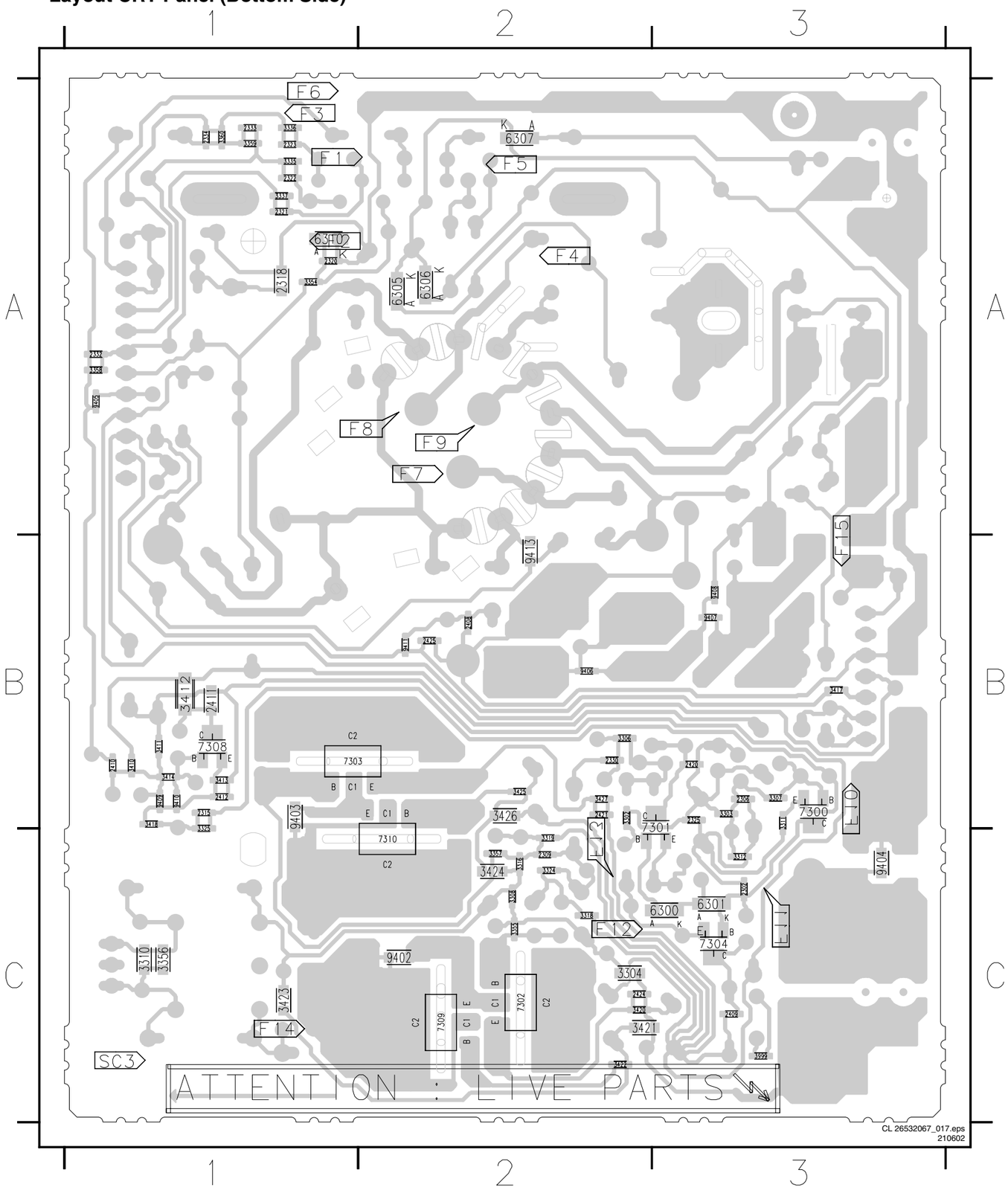


Layout CRT Panel (Top Side)



0031	A2
1237	A2
1298	A2
1424	B1
1434	A1
1435	A3
1483	C3
1940	A3
2300	C1
2301	B1
2304	C2
2307	C2
2313	A1
2316	A2
2317	B2
2319	A3
2324	A2
2336	A2
2403	A1
2404	A1
2405	A1
2406	B2
2407	B2
2422	B2
2423	C2
3300	B1
3301	C1
3323	C1
3329	C2
3334	A3
3338	A1
3339	A2
3340	A2
3341	A1
3342	A2
3345	A3
3347	A2
3349	A3
3350	A2
3351	A2
3352	A2
3370	B3
3401	B1
3402	B2
3403	B1
3404	B1
3405	C1
3416	B1
3419	C1
5300	C3
5302	C3
5303	C3
5400	A1
6401	A1
7307	A2
9300	A3
9301	B1
9302	B1
9303	C1
9304	A3
9306	A1
9307	B3
9310	C3
9311	C3
9312	B3
9313	A3
9314	B1
9315	B2
9317	C3
9318	C3
9320	B3
9400	B2
9401	A1
9412	B2
9414	A2

Layout CRT Panel (Bottom Side)



2302	C3
2306	B3
2309	C2
2315	B1
2318	A1
2320	A1
2321	A1
2322	A1
2323	A1
2325	B3
2330	B2
2332	A1
2333	A1
2334	A1
2408	B2
2409	C3
2410	B1
2411	B1
2412	B1
2420	B3
2421	B2
2424	C2
2425	B2
3302	B2
3303	B3
3304	C2
3306	B2
3307	B3
3308	C2
3310	C1
3311	B3
3312	C3
3316	C2
3318	C2
3319	C2
3324	C2
3325	B1
3335	A1
3336	A1
3337	A1
3354	A1
3355	C2
3356	C1
3357	C2
3358	A1
3359	A1
3360	A1
3410	B1
3411	B1
3412	B1
3413	B1
3414	B1
3417	B3
3418	B1
3420	C2
3421	C2
3422	C2
3423	C1
3424	C2
3425	B2
3426	B2
3427	B2
3999	C3
6300	C3
6301	C3
6305	A2
6306	A2
6307	A2
6310	A1
7300	C3
7301	B3
7302	C2
7303	B1
7304	C3
7308	B1
7309	C2
7310	C1
9402	C2
9403	B1
9404	C3
9405	A1
9406	B2
9407	B3
9408	B3
9409	B1
9410	B1
9411	B2
9413	B2

DVD Dolby Interface Panel: Audio

MM1 DVD-DOLBY INTERFACE - AUDIO

FROM 1603 DVD ENGINE

TO/FROM 1955 OF LSP A8

TO/FROM 1501 OF DVD ENGINE

TO 0267 OF EJECT BOARD MM4

	DVD Engine	
	ASD1	ASD3
4140	JMP	RES
4145	JMP	RES
4141	RES	JMP
4146	RES	JMP

* DC VOLTAGES MEASURED IN DVD MODE WITHOUT DISK LOADED.

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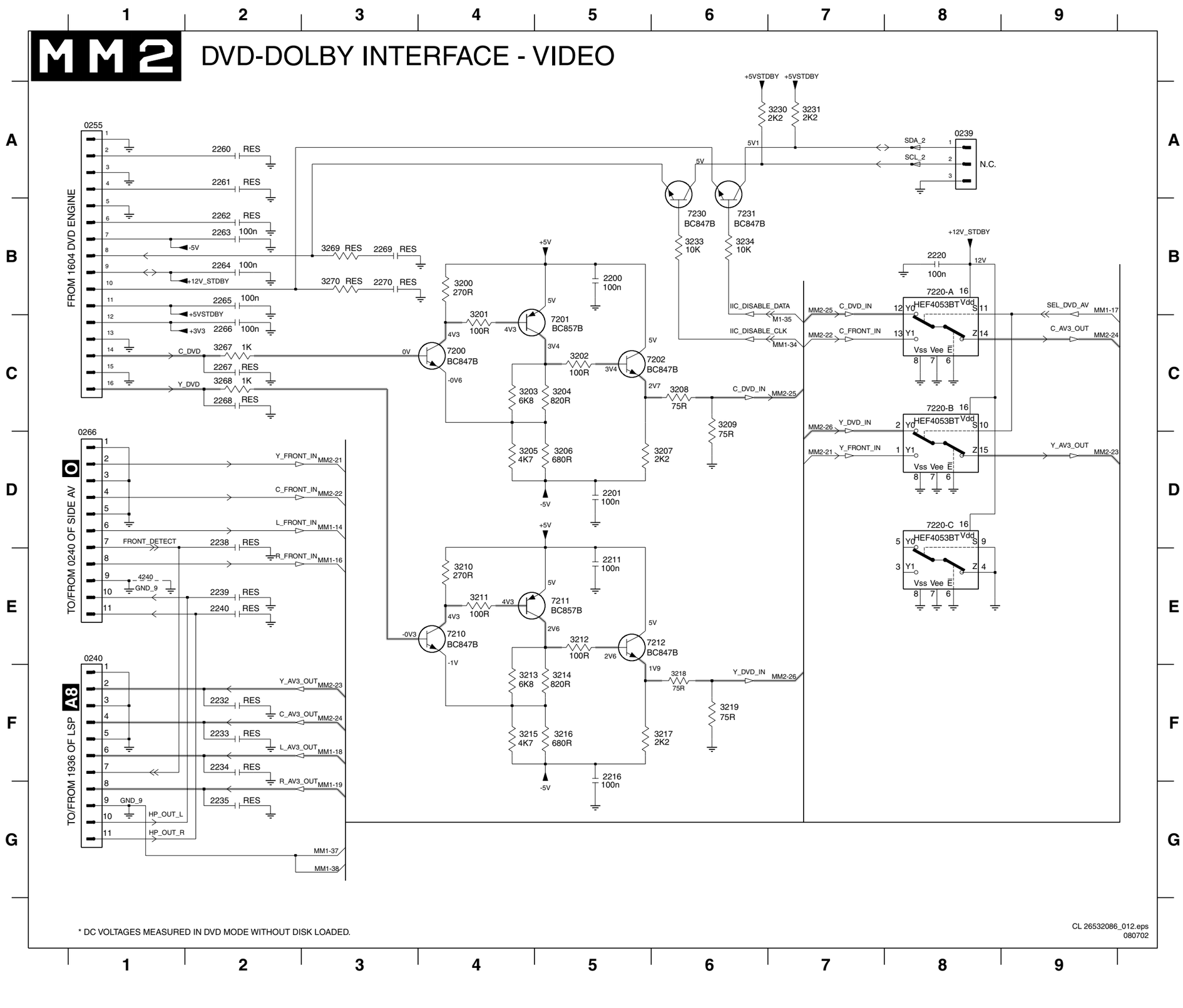
0221 E1
0224 E1
0225 E10
0254 A1
0264 F7
1100 F11
1121 E9
1122 F11
1154 E7
2100 E10
2101 F9
2102 F9
2103 F10
2104 F10
2120 A10
2121 A10
2122 C10
2129 B3
2130 A3
2131 C3
2132 D4
2133 C4
2134 A7
2135 A7
2138 A6
2139 B7
2140 A8
2143 C6
2144 D7
2145 C8
2150 F2
2152 D2
2155 G5
2156 G6
2159 F7
2160 A1
2161 A1
2162 A1
2163 A1
2164 A1
2165 B1
2166 B1
2167 B1
2168 C1
2169 C1
2170 B1
2171 C1
2172 C1
2173 C1
2174 C2
2175 D1
3100 E9
3101 F9
3102 F10
3123 A10
3124 A10
3125 B10
3126 C10
3130 B3
3131 A5
3132 B5
3136 A6
3137 A6
3138 A6
3139 B7
3141 C6
3142 C6
3143 B6
3144 C7
3146 B8
3147 D8
3149 E2
3150 E2
3151 E2
3152 E2
3154 E5
3155 E5
3156 E6
3157 E6
3158 E6
3159 E7
3160 E7
3161 F6
3162 F7
3163 E7
4138 A6
4140 A8
4141 B8
4143 C6
4145 C8
4146 B8
4149 E3
4152 E1
4154 E5
4159 F7
5100 F9
5129 B3
5161 A1
7100 E10
7120-A A10
7120-B B10
7120-C C10
7130 A3
7131 A5
7134-A A7
7134-B C7
7146 B8
7147 D8
7150 A3
7162 F7

DVD Dolby Interface Panel: Video



* DC VOLTAGES MEASURED IN DVD MODE WITHOUT DISK LOADED.

0239 A8
0240 E1
0255 A1
0266 D1
2200 B5
2201 D5
2211 E5
2216 F5
2220 B8
2232 F2
2233 F2
2234 F2
2235 G2
2238 D2
2239 E2
2240 E2
2260 A2
2261 A2
2262 B2
2263 B2
2264 B2
2265 B2
2266 C2
2267 C2
2268 C2
2269 B3
2270 B3
3200 B4
3201 C4
3202 C5
3203 C4
3204 C5
3205 D4
3206 D5
3207 D6
3208 C6
3209 C6
3210 E4
3211 E4
3212 E5
3213 F4
3214 F5
3215 F4
3216 F5
3217 F6
3218 F6
3219 F6
3230 A7
3231 A7
3233 B6
3234 B6
3267 C2
3268 C2
3269 B3
3270 B3
4240 E1
7200 C4
7201 C5
7202 C5
7210 E4
7211 E5
7212 E5
7220-A B8
7220-B C8
7220-C D8
7230 B6
7231 B6

DVD Dolby Interface Panel: Power Supply

MM3 DVD-DOLBY INTERFACE - POWER SUPPLY

STANDBY SUPPLY A2

TO/FROM 1146 OF LSP

0206 +5V2 +11V +50V GND GND

+5VSTDBY 2302 RES 5V3 4302 REAL_STDBY

+13V 12V1 5300 33u +13VA

4300 2303 RES

4330 +8V 7V8 5330 33u

5340 RES 9340

4331

1313 MM1-36 REAL_STDBY

12V 3 7300 BSP613P 4 2 12V 9305 +12VSTDBY

5305 33u +12V_STDBY

2301 2m2

3300 22K 6V 1

2304 470n 2300 2m2 3301 1K

0V

3302 18K 0V7 7303 BC847B

3303 22K

2V4 7318 SI-8033S 1V4

12V 1 SS VIN SWOUT VOS GND 2 4 3

2316 39n

3V4

3 5318 4 1 C956 2

2320 RES 9332 RES

6320 BYD33D 5322 10u -5V4 -5V

2322 1m 2323 1m

5319

5320 3V3 +3V3

9320 RES

3313 18K 3315 18K

0V 3316 18K 0V 7317 BC847B

0V7 7315 BC847B

3314 22K 3317 22K 2317 RES

6318 SB340 2318 10n 2319 1m 2321 1m

+3V3 +5V +5VSTDBY -5V DVD_STDBY +12VSTDBY MM1-33

2334 RES 2336 RES 2335 RES 2337 RES

0265 TO 1600 DVD ENGINE

0302 MECHPART

+13VA 3335 18K 3337 100R 7335 SI2306DS

3336 1K

+5VSTDBY 6335 BZX384-C12

3330 18K

7333 (RESERVED) SI-3050C

7V7 5 IN OUT 3 5V +5V

5V3 2 SWI RS 4 5V

GND 1

DVD_STDBY MM1-20 3331 18K 0V 7332 BC847B

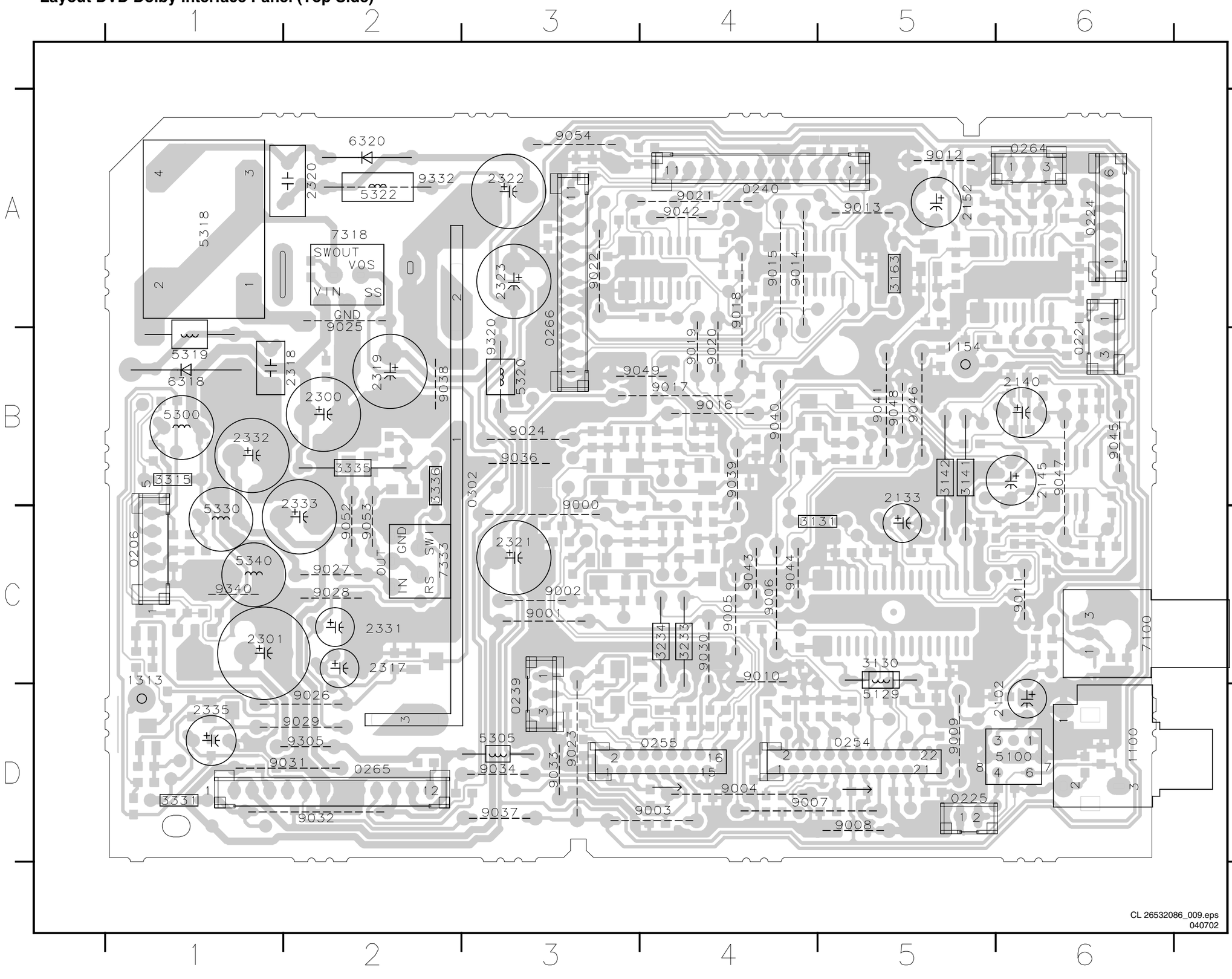
3332 22K 2331 RES 2332 1m 2333 1m

* DC VOLTAGES MEASURED IN DVD MODE WITHOUT DISK LOADED

CL 26532086_013.eps 080702

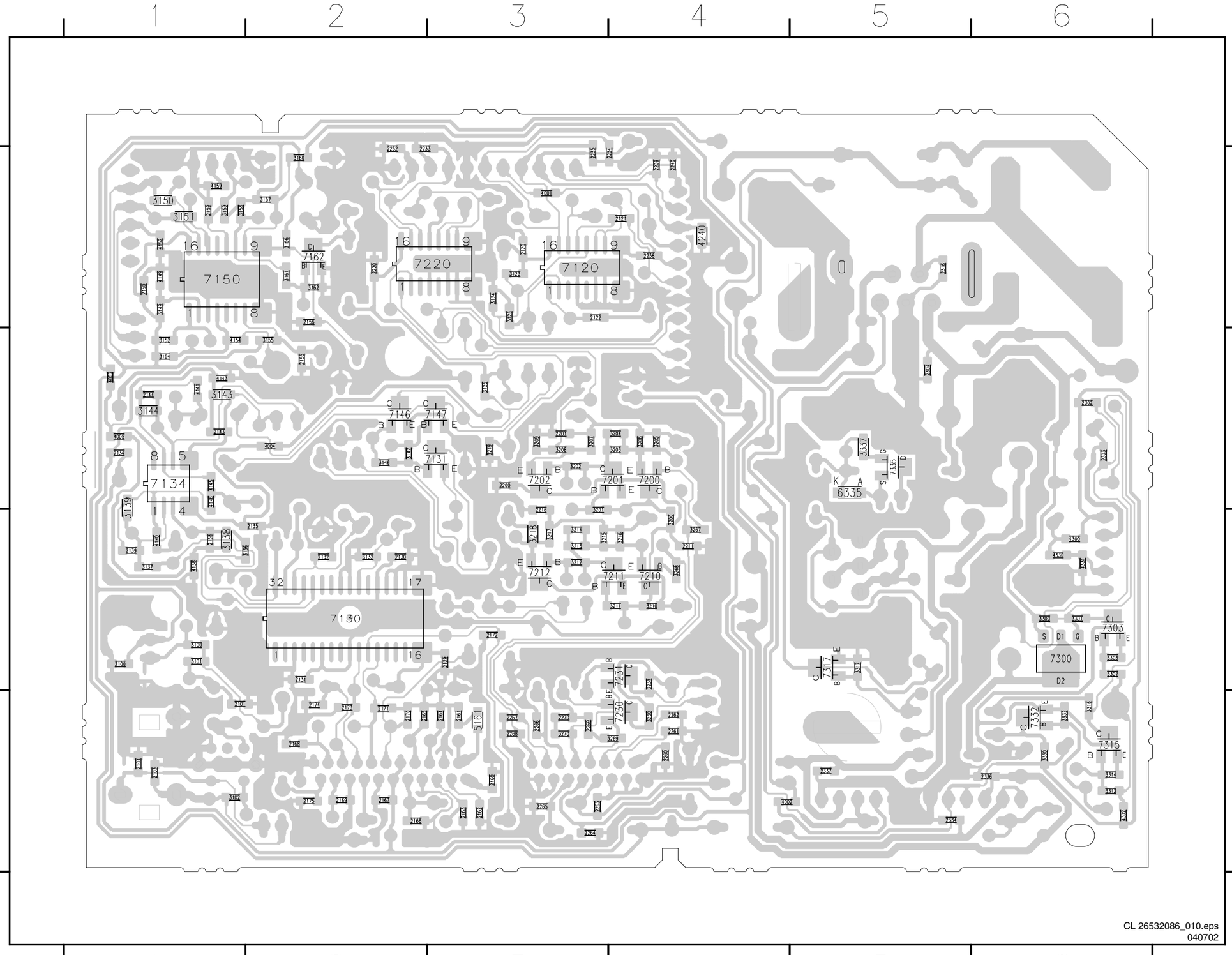
0206 B1
0265 B11
0302 E11
1313 C3
2300 A5
2301 A6
2302 B2
2303 B2
2304 A5
2316 C6
2317 D5
2318 D7
2319 D7
2320 C7
2321 D8
2322 C8
2323 C8
2331 F5
2332 F5
2333 F6
2334 C9
2335 C10
2336 C10
2337 D10
3300 A5
3301 A6
3302 B5
3303 B5
3313 C4
3314 D4
3315 C4
3316 D4
3317 D5
3330 E4
3331 F3
3332 F4
3335 E4
3336 E5
3337 E5
4300 B1
4302 B3
4330 B1
4331 C1
5300 B2
5305 A7
5318 C7
5319 C6
5320 C7
5322 C8
5330 B2
5340 C2
6318 D6
6320 C7
6335 E5
7300 A6
7303 B6
7315 D4
7317 D5
7318 C6
7332 F4
7333 E5
7335 E6
9305 A6
9320 D7
9332 C8
9340 C2

Layout DVD Dolby Interface Panel (Top Side)



0206	C1	9029	D2
0221	B6	9030	C4
0224	A6	9031	D2
0225	D5	9032	D2
0239	D3	9033	D3
0240	A4	9034	D3
0254	D5	9036	B3
0255	D4	9037	D3
0264	A6	9038	B2
0265	D2	9039	B4
0266	B3	9040	B4
0302	B3	9041	B5
1100	D6	9042	A4
1154	B5	9043	C4
1313	C1	9044	C4
2102	D6	9045	B6
2133	B5	9046	B5
2140	B6	9047	B6
2145	B6	9048	B5
2152	A5	9049	B4
2300	B2	9052	C2
2301	C1	9053	C2
2317	C2	9054	A3
2318	B2	9305	D2
2319	B2	9320	B3
2320	A2	9332	A2
2321	C3	9340	C1
2322	A3		
2323	A3		
2331	C2		
2332	B1		
2333	B2		
2335	D1		
3130	C5		
3131	C4		
3141	B5		
3142	B5		
3163	A5		
3233	C4		
3234	C4		
3315	B1		
3331	D1		
3335	B2		
3336	B2		
5100	D6		
5129	D5		
5300	B1		
5305	D3		
5318	A1		
5319	B1		
5320	B3		
5322	A2		
5330	C1		
5340	C1		
6318	B1		
6320	A2		
7100	C6		
7318	A2		
7333	C2		
9000	B3		
9001	C3		
9002	C3		
9003	D4		
9004	D4		
9005	C4		
9006	C4		
9007	D4		
9008	D5		
9009	D5		
9010	C4		
9011	C6		
9012	A5		
9013	A5		
9014	A4		
9015	A4		
9016	B4		
9017	B4		
9018	A4		
9019	B4		
9020	B4		
9021	A4		
9022	A3		
9023	D3		
9024	B3		
9025	A2		
9026	D2		
9027	C2		
9028	C2		

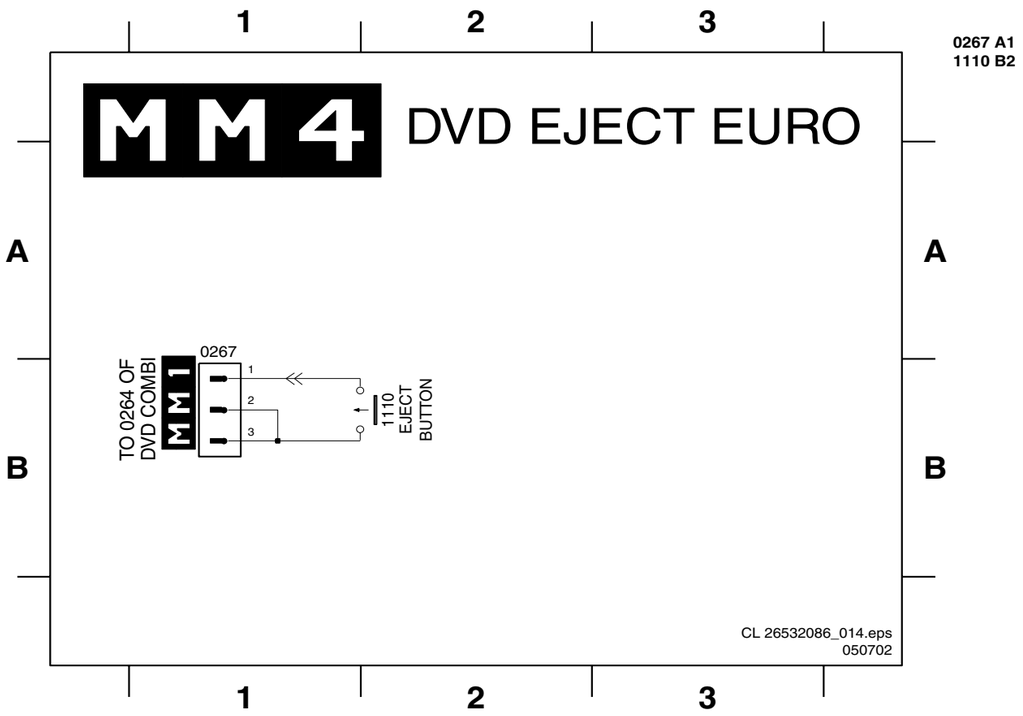
Layout DVD Dolby Interface Panel (Bottom Side)



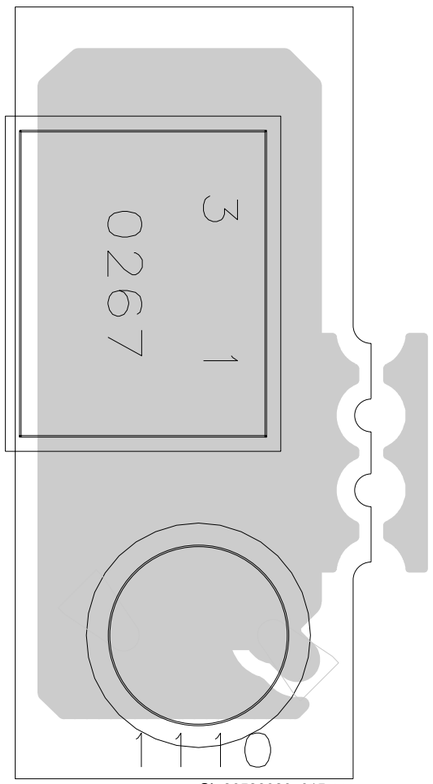
CL 26532086_010.eps
040702

2100	C1	3144	B1	7147	B3
2101	D1	3146	B2	7150	A1
2103	D1	3147	B2	7162	A2
2104	D1	3149	A1	7200	B4
2120	A3	3150	A1	7201	B4
2121	A4	3151	A1	7202	B3
2122	A3	3152	B1	7210	C4
2129	C3	3154	B1	7211	C4
2130	C2	3155	B2	7212	C3
2131	C2	3156	A2	7220	A3
2132	C2	3157	A2	7230	D4
2134	B1	3158	A1	7231	C4
2135	C2	3159	A1	7300	C6
2138	C1	3160	A2	7303	C6
2139	C1	3161	A2	7315	D6
2143	B1	3162	A2	7317	C5
2144	B1	3200	C4	7332	D6
2150	A1	3201	C3	7335	B5
2155	B2	3202	B3		
2156	A2	3203	B4		
2159	A1	3204	B4		
2160	D3	3205	B4		
2161	D3	3206	B4		
2162	D3	3207	B3		
2163	D3	3208	B3		
2164	D3	3209	B3		
2165	D2	3210	C4		
2166	D2	3211	C4		
2167	D2	3212	C3		
2168	D2	3213	C3		
2169	D2	3214	C3		
2170	D2	3215	C3		
2171	D2	3216	C4		
2172	C3	3217	C3		
2173	D2	3218	C3		
2174	D2	3219	B3		
2175	D2	3230	D4		
2200	B3	3231	C4		
2201	B3	3267	C4		
2211	C4	3268	C4		
2216	C3	3269	D4		
2220	A2	3270	D3		
2232	A2	3300	C6		
2233	A2	3301	C6		
2234	A4	3302	C6		
2235	A3	3303	C6		
2238	A4	3313	D6		
2239	A4	3314	D6		
2240	A4	3316	D6		
2260	D4	3317	C5		
2261	D4	3330	D6		
2262	D4	3332	D6		
2263	D3	3337	B5		
2264	D3	4001	A3		
2265	D3	4002	D4		
2266	D3	4003	B1		
2267	D3	4004	B2		
2268	D3	4005	B1		
2269	D3	4138	C1		
2270	D3	4140	C1		
2302	B6	4141	B1		
2303	B6	4143	B1		
2304	B5	4145	B1		
2316	A5	4146	B1		
2334	D5	4149	A1		
2336	D6	4152	A1		
2337	D5	4154	B1		
3100	C1	4159	A1		
3101	C1	4240	A4		
3102	D1	4300	C6		
3123	A3	4302	D6		
3124	A3	4330	C6		
3125	B3	4331	C6		
3126	A3	5161	D3		
3132	C2	6335	B5		
3136	C1	7120	A3		
3137	C1	7130	C2		
3138	C1	7131	B3		
3139	B1	7134	B1		
3143	B1	7146	B2		

DVD Eject Button



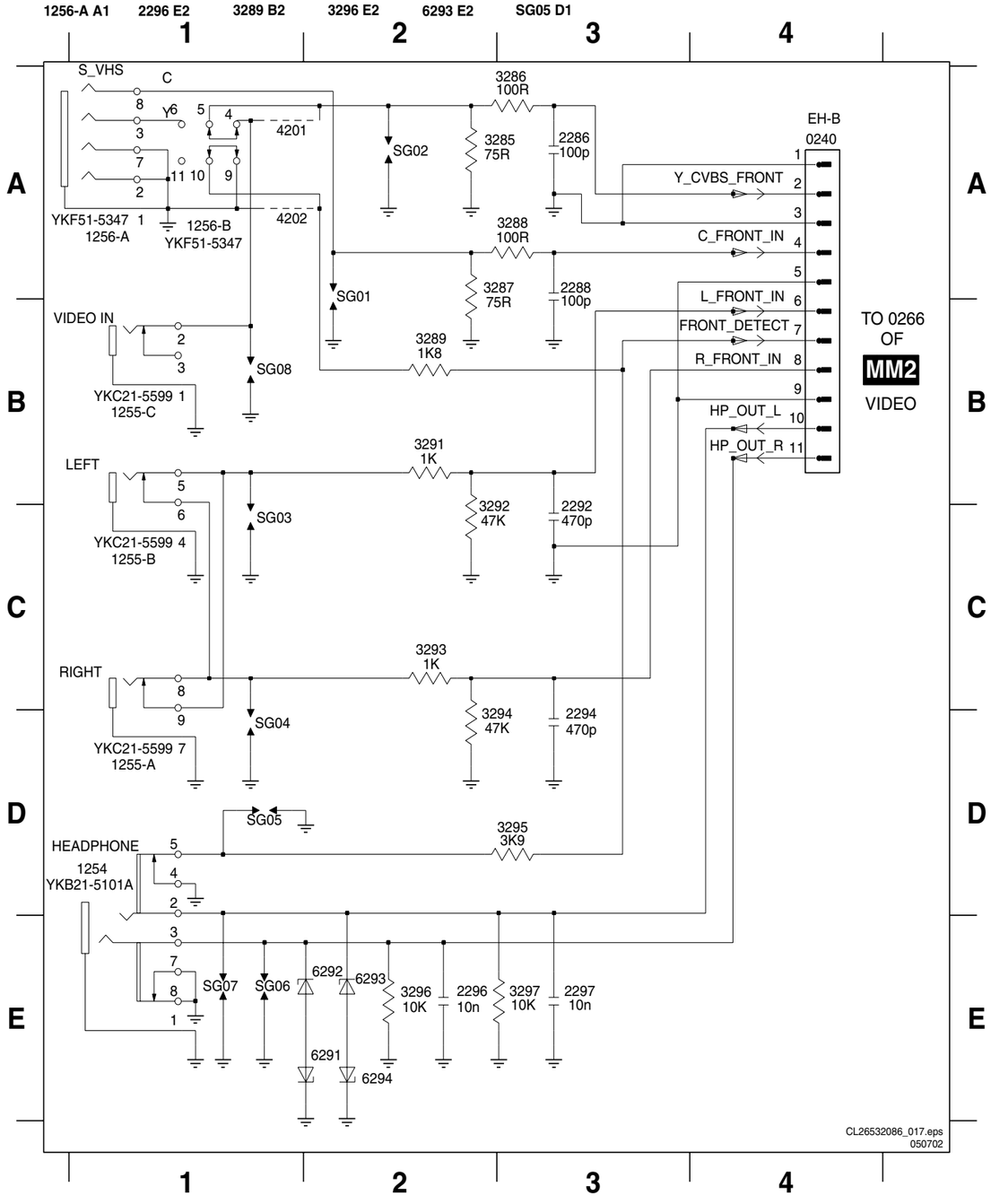
Layout DVD Eject Button



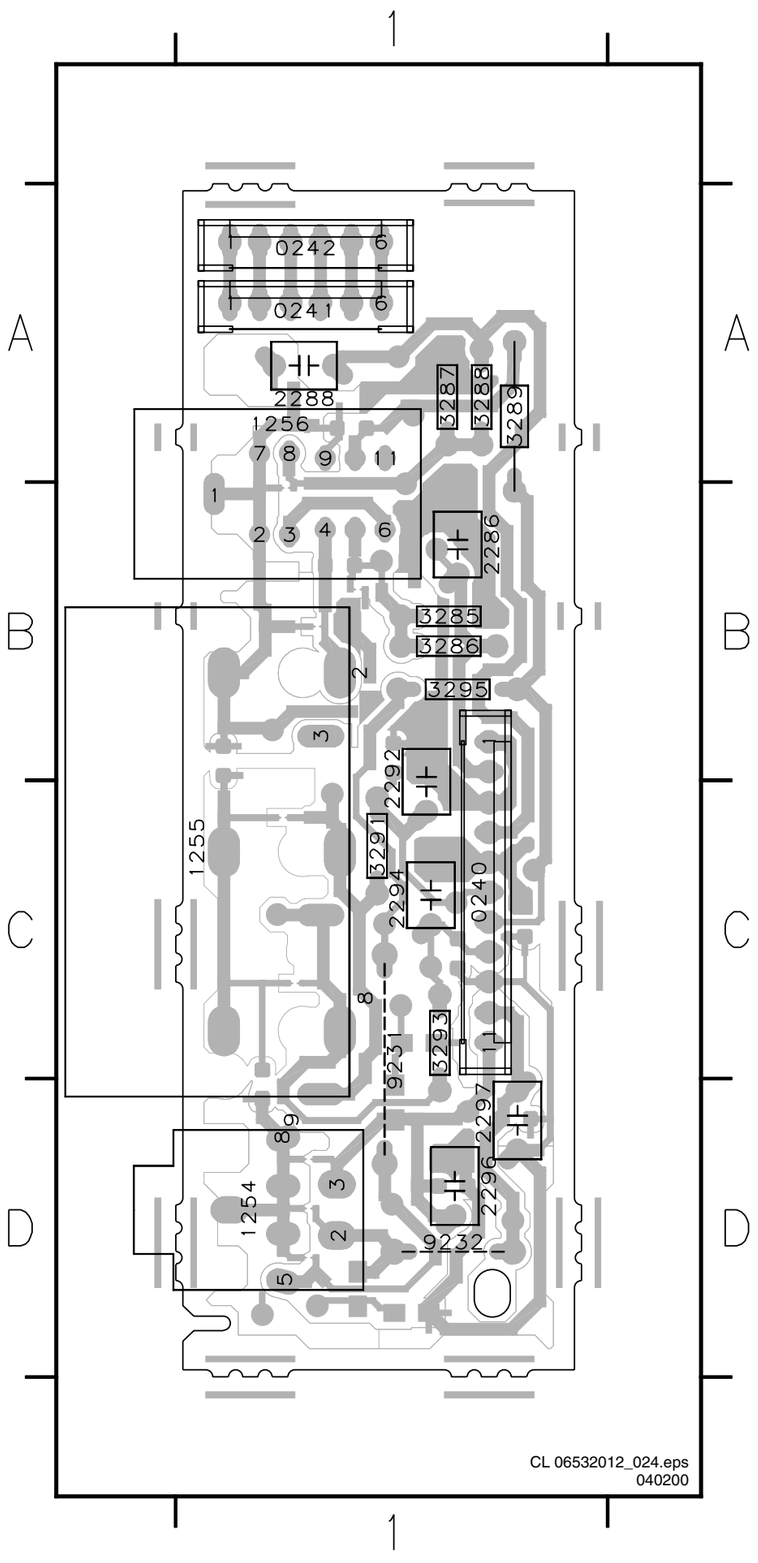
Side I/O Panel

O SIDE IO PANEL

0240 A4, 1254 D1, 1255-A D1, 1255-B C1, 1255-C B1, 1256-A A1, 1256-B A1, 2286 A3, 2288 A3, 2292 B3, 2294 C3, 2296 E2, 2297 E3, 3285 A3, 3286 A3, 3287 A3, 3288 A3, 3289 B2, 3291 B2, 3292 B2, 3293 C2, 3294 C3, 3295 D3, 3296 E2, 3297 E3, 4201 A1, 4202 A1, 6291 E2, 6292 E2, 6293 E2, 6294 E2, SG01 B2, SG02 A2, SG03 C1, SG04 D1, SG05 D1, SG06 E1, SG07 E1, SG08 B1

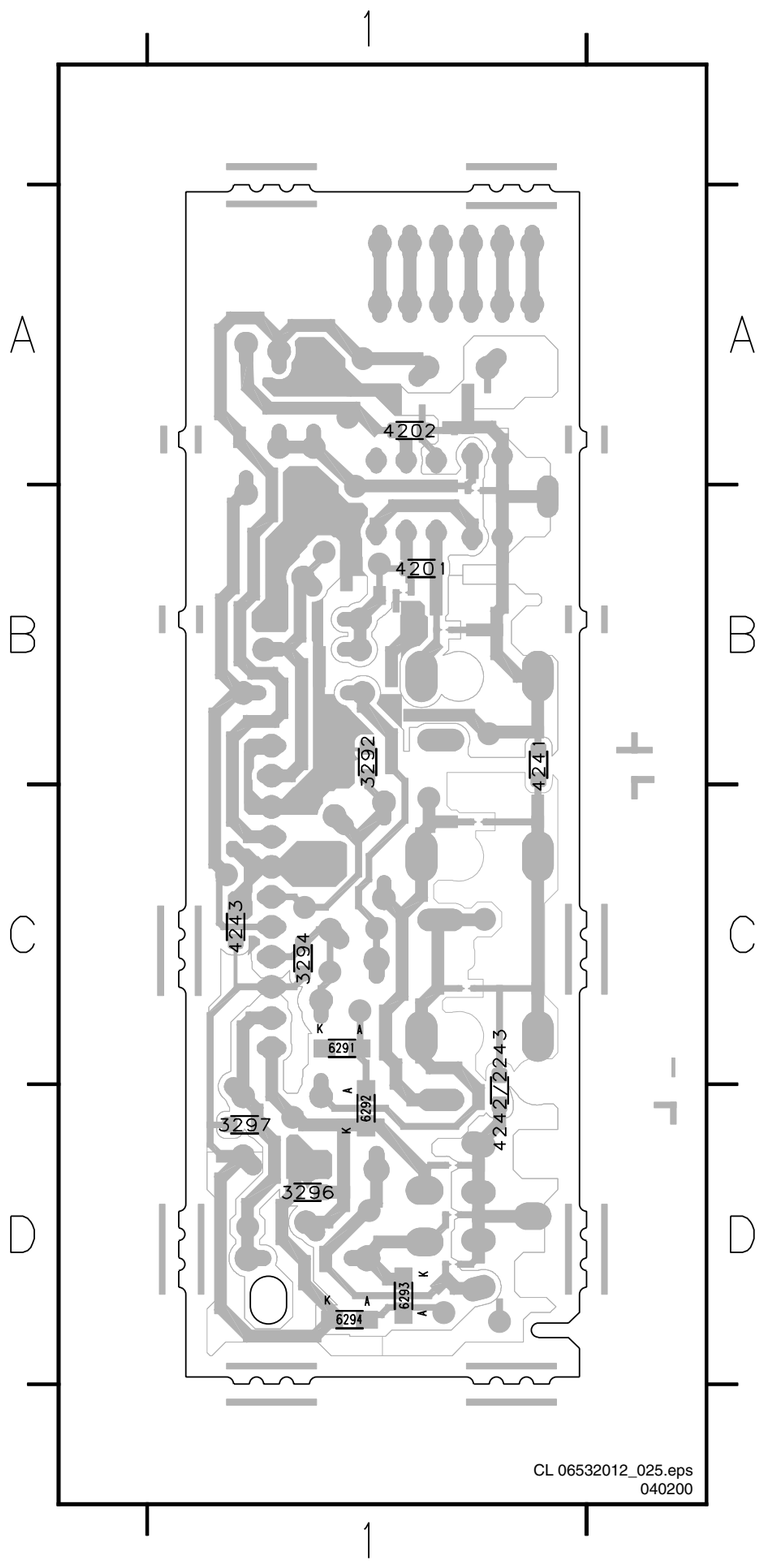


Layout Side I/O Panel (Top Side)



0240 C1
0241 A1
0242 A1
1254 D1
1255 C1
1256 A1
2286 B1
2288 A1
2292 B1
2294 C1
2296 D1
2297 D1
3285 B1
3286 B1
3287 A1
3288 A1
3289 A1
3291 C1
3293 C1
3295 B1
9231 C1
9232 D1

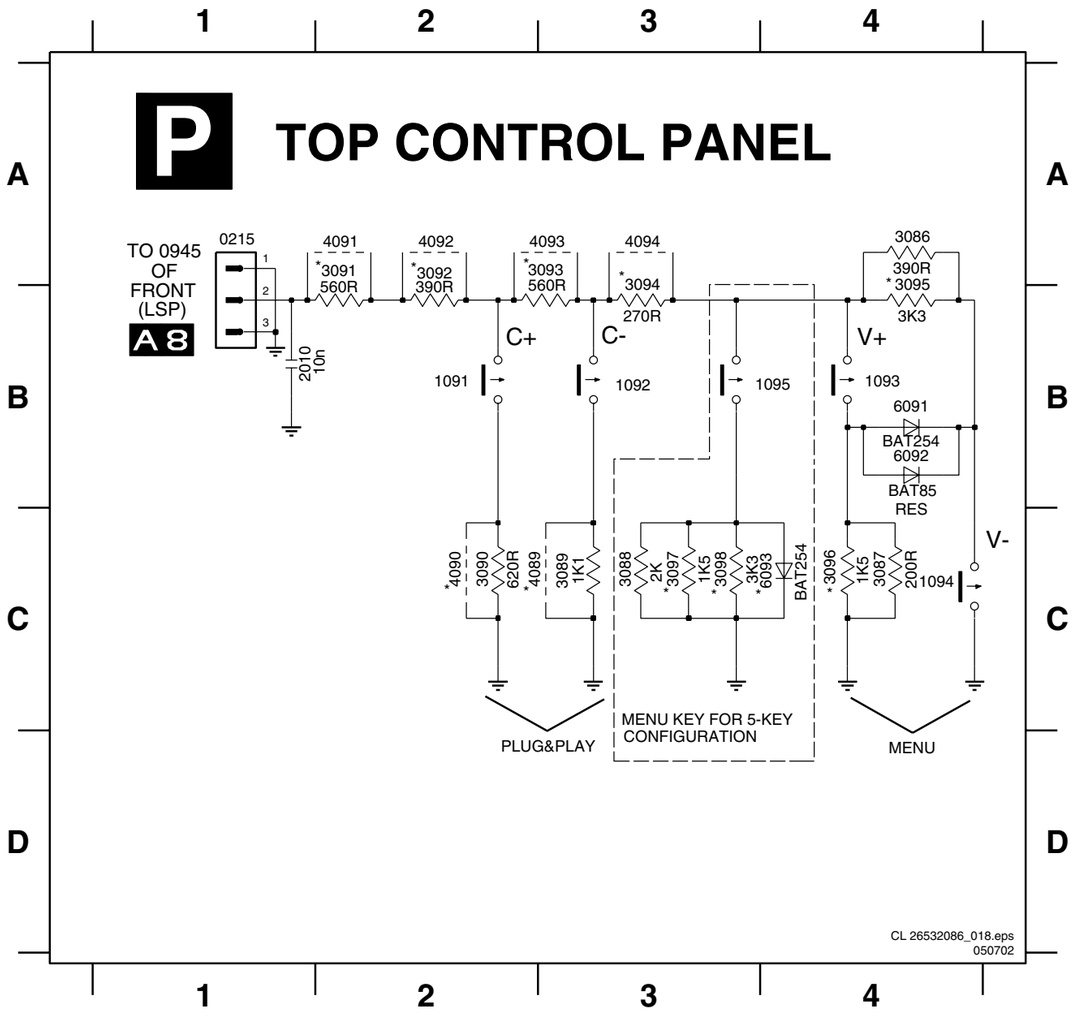
Layout Side I/O Panel (Bottom Side)



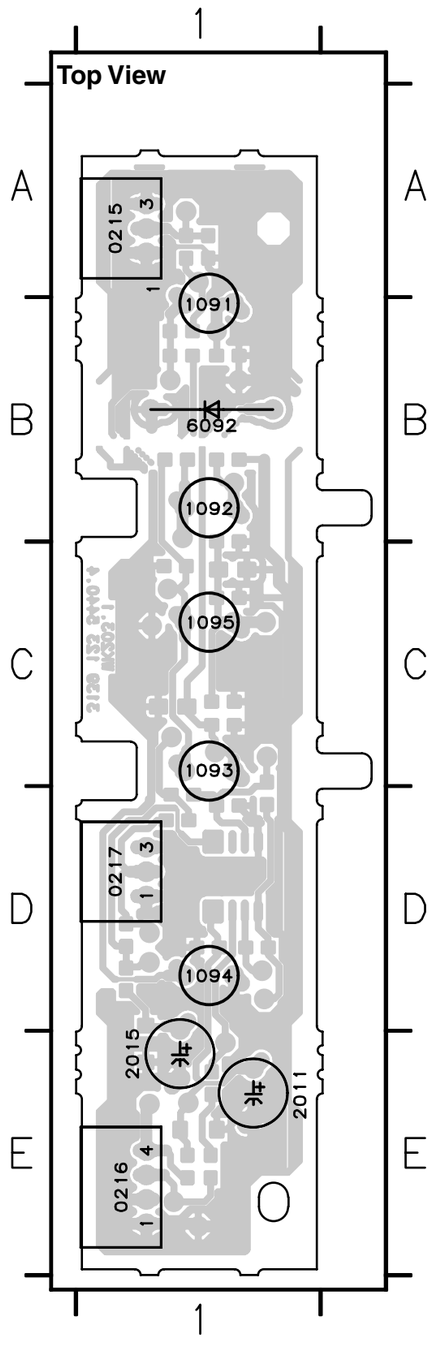
3292
3294
3296
3297
4201
4202
4241
4242/
4243
6291
6292
6293
6294

Top Control Panel

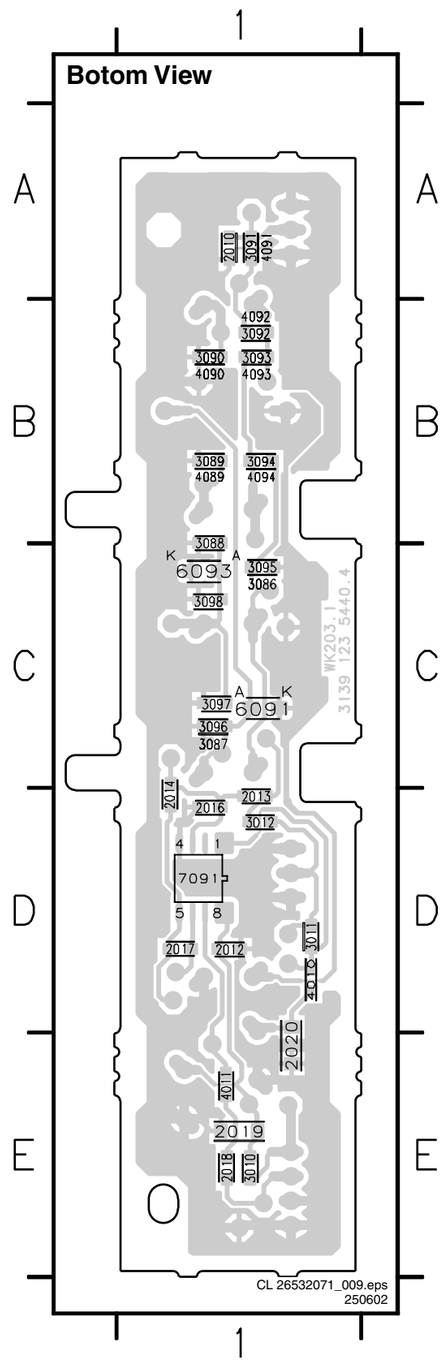
0215 A1 1093 B4 2010 B1 3088 C3 3091 A2 3094 B3 3097 C3 4090 C2 4093 A3 6092 B4
1091 B2 1094 C4 3086 A4 3089 C3 3092 A2 3095 B4 3098 C3 4091 A2 4094 A3 6093 C4
1092 B3 1095 B4 3087 C4 3090 C2 3093 A3 3096 C4 4089 C3 4092 A2 6091 B4



Layout Top Control Panel

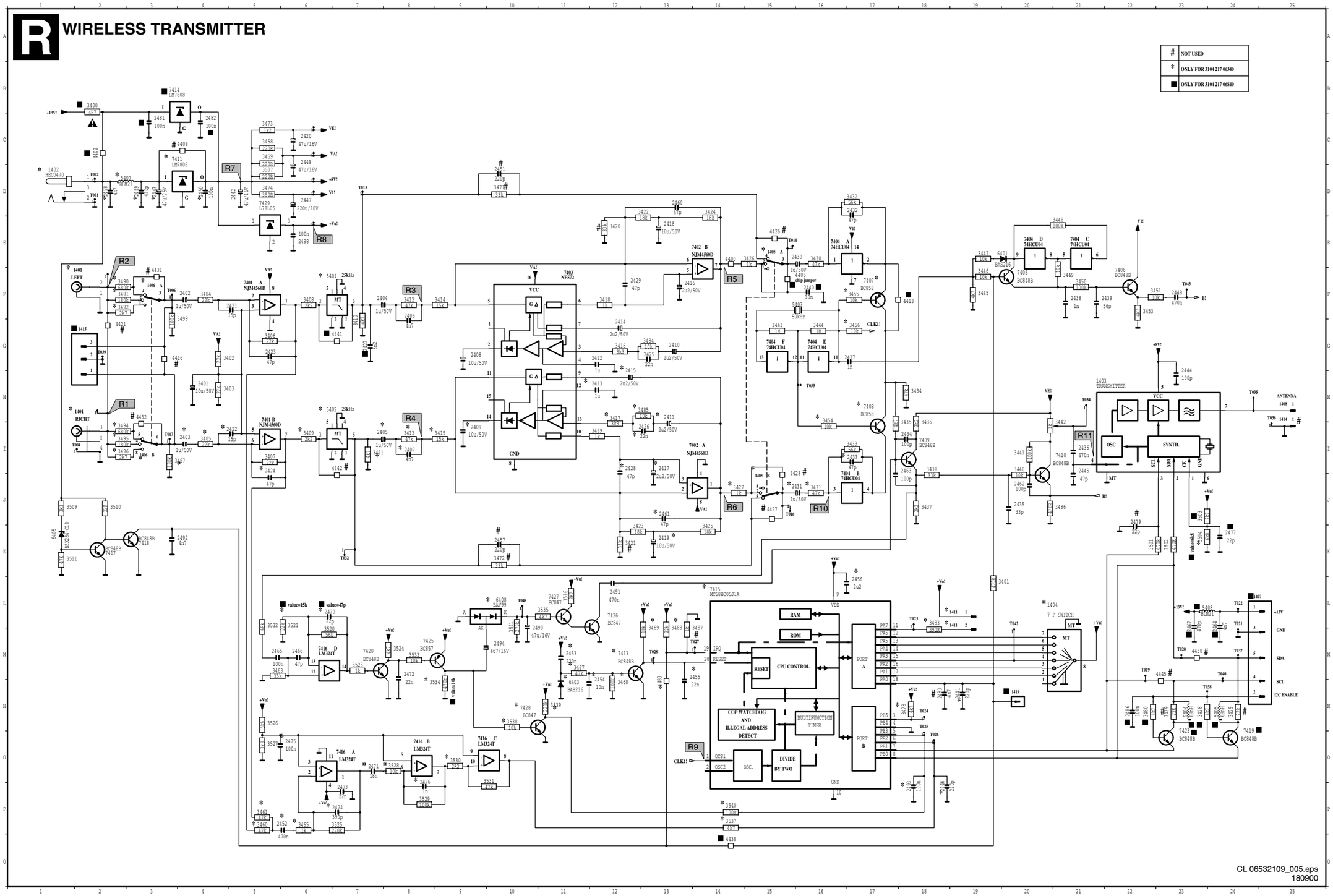


0215 A1
0216 E1
0217 D1
1091 B1
1092 B1
1093 C1
1094 D1
1095 C1
2011 E1
2015 E1
6092 B1

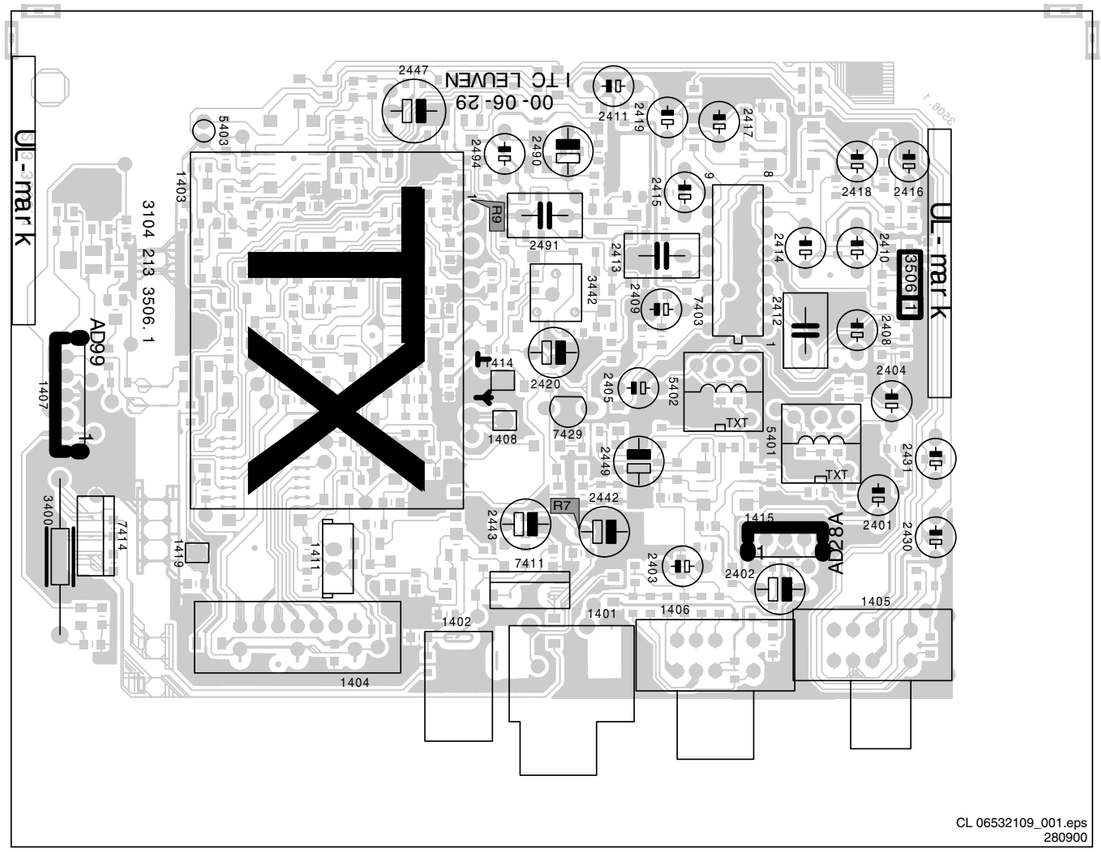


2010 A1
2012 D1
2013 D1
2014 D1
2016 D1
2017 D1
2018 E1
2019 E1
2020 E1
3010 E1
3011 D1
3012 D1
3086 C1
3087 C1
3088 B1
3089 B1
3090 B1
3091 A1
3092 B1
3093 B1
3094 B1
3095 C1
3096 C1
3097 C1
3098 C1
4010 D1
4011 E1
4089 B1
4090 B1
4091 A1
4092 B1
4093 B1
4094 B1
6091 C1
6093 C1
7091 D1

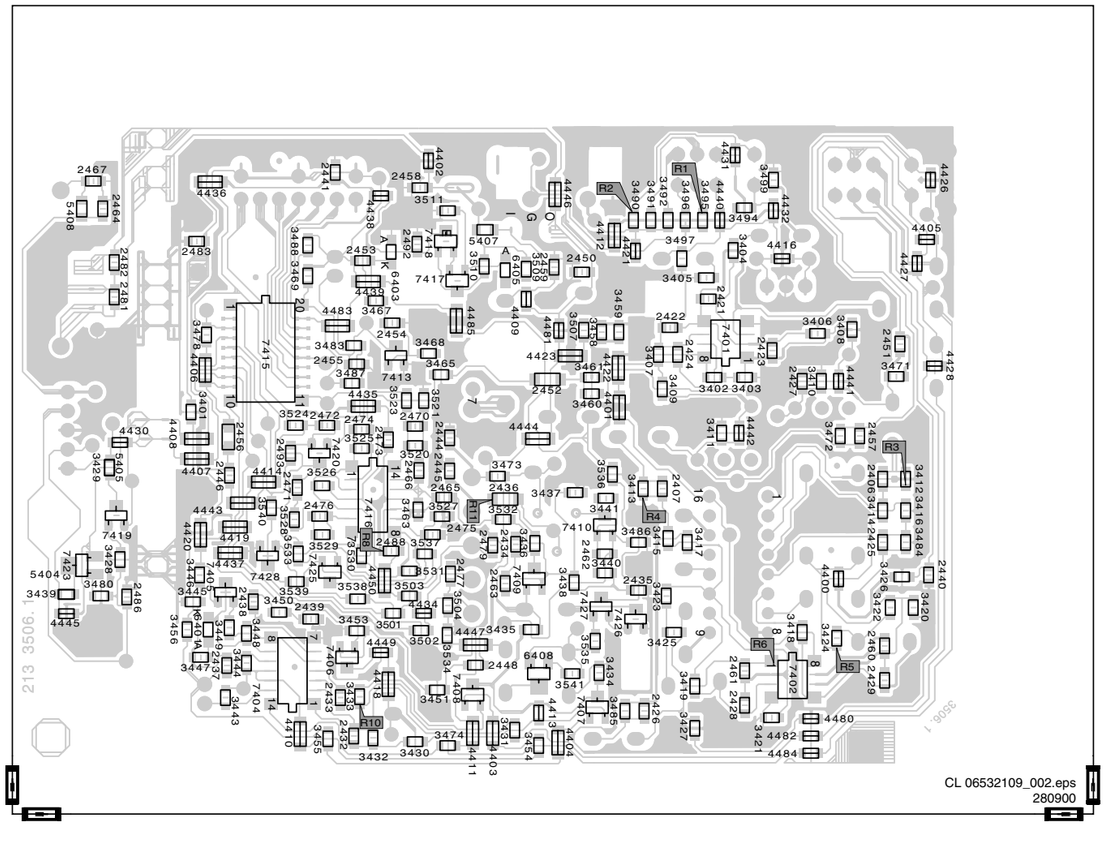
Wireless Transmitter



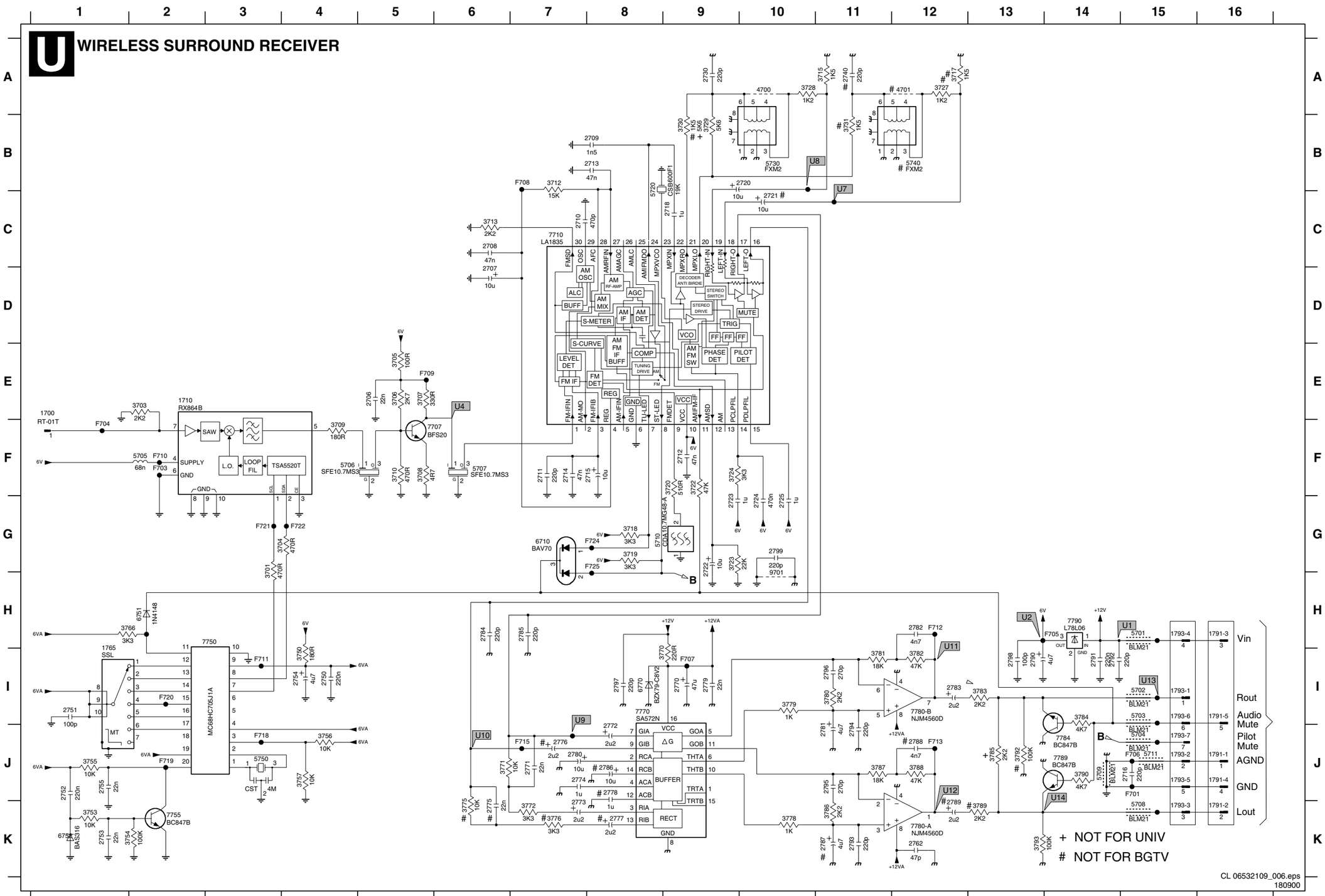
Layout Wireless Transmitter (Top Side)



Layout Wireless Transmitter (Bottom Side)



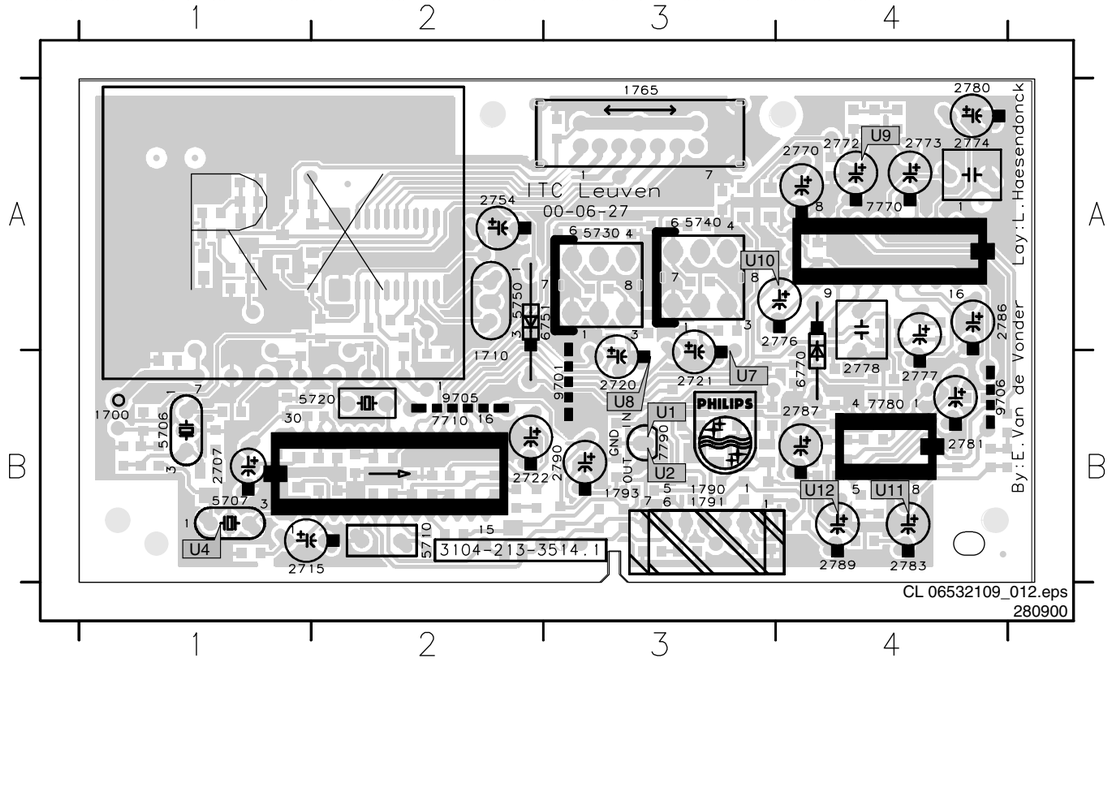
Wireless Surround Receiver



1700 E1
1710 E2
1765 I1
1790-1 I16
1790-2 J16
1790-3 K16
1790-4 H16
1790-5 J16
1790-6 I16
1791-1 J16
1791-2 K16
1791-3 H16
1791-4 J16
1791-5 I16
1793-1 I15
1793-2 J15
1793-3 K15
1793-4 H15
1793-5 J15
1793-6 I15
1793-7 J15
2706 E5
2707 D6
2708 C6
2709 B8
2710 C7
2711 F7
2712 F9
2713 B8
2714 F7
2715 F8
2716 J15
2718 C9
2720 B10
2721 C10
2722 G9
2723 G9
2724 G10
2725 G10
2730 A9
2740 A11
2750 I4
2751 I1
2752 J1
2753 K1
2754 I4
2755 J1
2762 K12
2770 I9
2771 J7
2772 J8
2773 K7
2774 J7
2775 K6
2776 J7
2777 K8
2778 J8
2779 I9
2780 J7
2781 J11
2782 H12
2783 I12
2784 H6
2785 H7
2786 J8
2787 K11
2788 J12
2789 K12
2790 I13
2791 I14
2792 I14
2793 K11
2794 J11
2795 J11
2796 I11
2797 I8
2798 I13
2799 G10
3701 G3
3703 E2
3704 G4
3705 E5
3706 E5
3707 E5
3708 F5
3709 F4
3710 F5
3712 B7
3713 C6
3715 A11
3717 A12
3718 G8
3719 G8
3720 F9
3722 F9
3723 G9
3724 F9
3727 A12
3728 A10
3729 B9
3730 B9
3731 B11
3750 I4
3753 K1
3754 K2
3755 J1
3756 J4
3757 J4
3766 H1
3770 I9
3771 J6
3772 K7
3775 K6
3776 K7
3778 K10
3779 I10
3780 I11
3781 I11
3782 I12
3783 I13
3784 I14
3785 J13
3786 K11
3787 J11
3788 J12
3789 K13
3790 J14
3792 J13
3793 K13
4700 A10
4701 A12
5701 H15
5702 I15
5703 I15
5704 J15
5705 F2
5706 F4
5707 F6
5708 K15
5709 J14
5710 G8
5711 J15
5720 B8
5730 B10
5740 B12
5750 J3
6710 G7
6751 H2
6752 K1
6770 I8
7707 F5
7710 C7
7750 H3
7755 K2
7770 I8
7780-A K12
7780-B I12
7784 J14
7789 J14
7790 H14
9701 H10
F701 J15
F702 H15
F703 F2
F704 F1
F705 H14
F706 J15
F707 I9
F708 B7
F709 E5
F710 F2
F711 I3
F712 H12
F713 J12
F714 J7
F715 J7
F716 B10
F717 C10
F718 J3
F719 J2
F720 I2
F721 G3
F722 G4
F723 H2
F724 G8
F725 H8
F726 J15
F727 I15
F728 I15
F729 K15
F730 I14

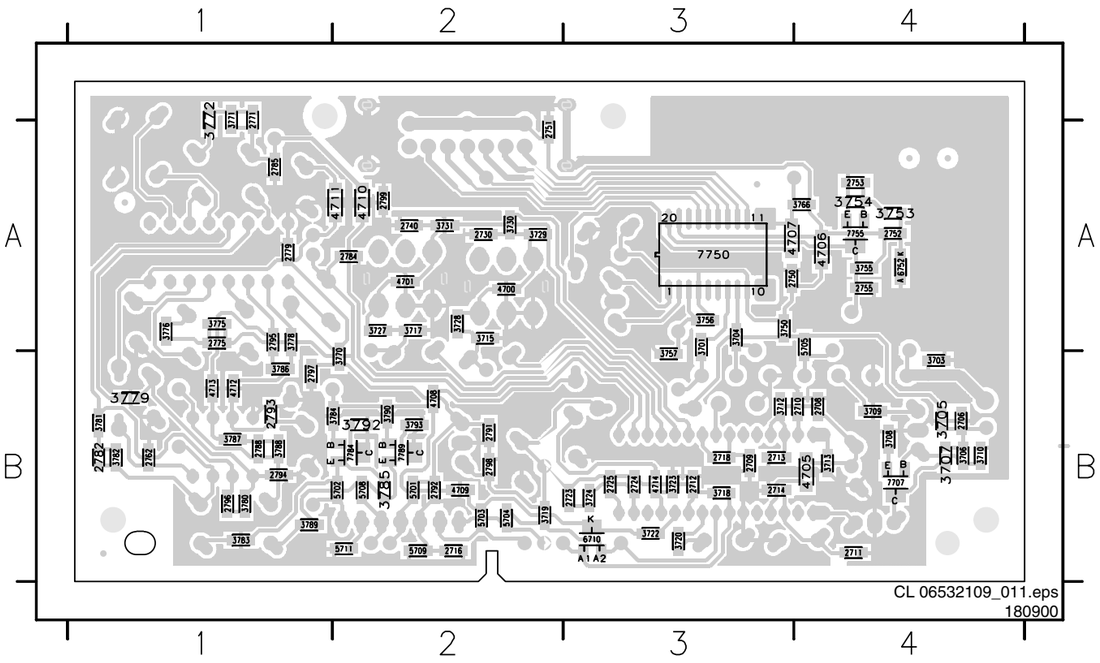
Layout Wireless Surround Receiver (Top Side)

1700 B1 1710 A1 1765 A3 1790 B3 1791 B3 1793 B3 2707 B1 2715 B1 2720 B3 2721 B3 2722 B2 2754 A2 2770 A4 2772 A4 2773 A4 2774 A4 2776 A4 2777 A4 2778 A4 2780 A4 2781 B4 2783 B4 2786 A4 2787 B4 2789 B4 2790 B3 5706 B1 5707 B1 5710 B2 5720 B2 5730 A3 5740 A3 5750 A2 6751 A2 6770 B4 7710 B2 7770 A4 7780 B4 7790 B3 9701 B3 9705 B2 9706 B4

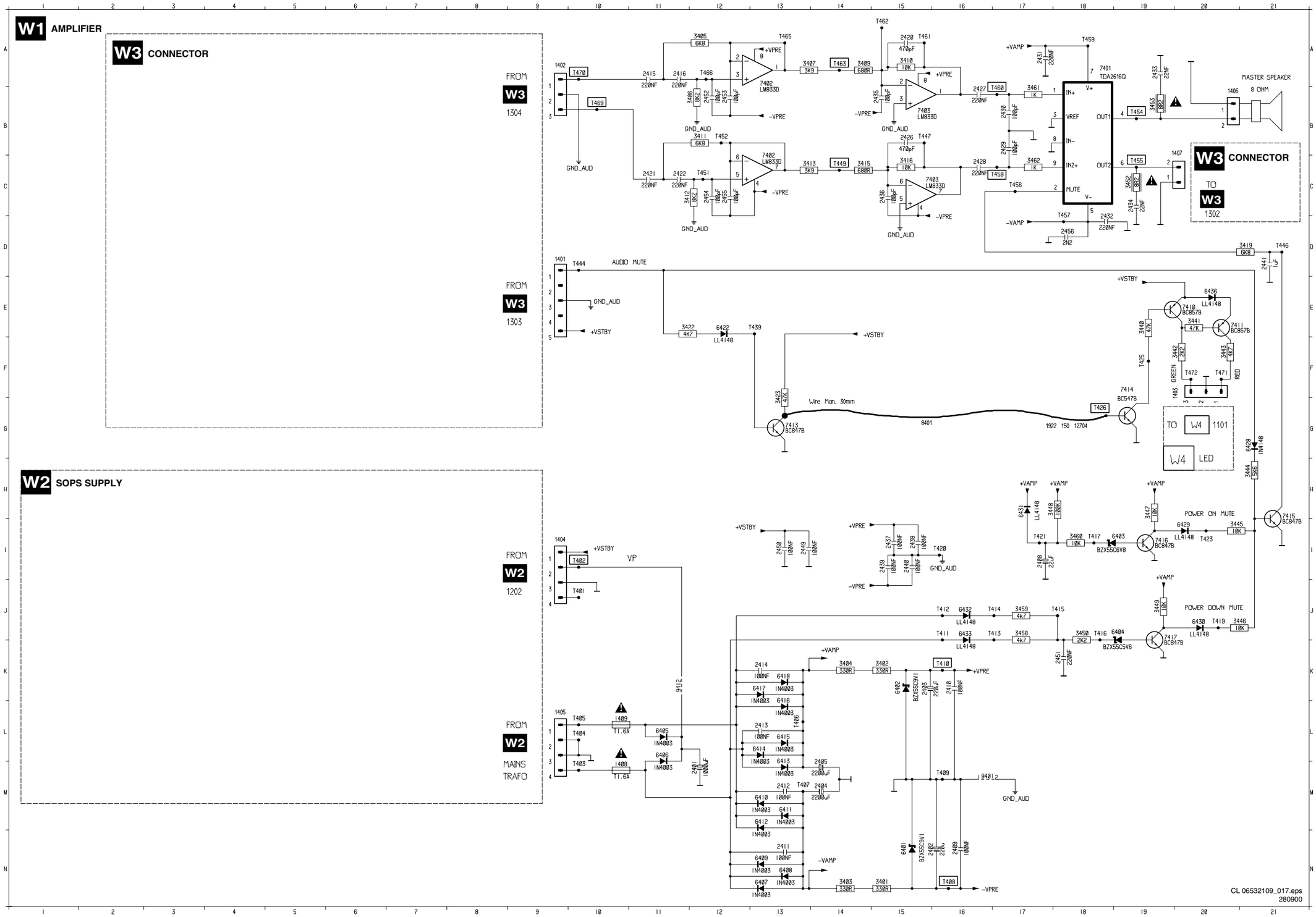


Layout Wireless Surround Receiver (Bottom Side)

2706 B4 2708 B4 2709 B3 2710 B4 2711 B4 2712 B3 2713 B3 2714 B3 2716 B2 2718 B3 2723 B3 2724 B3 2725 B3 2730 A2 2740 A2 2750 A3 2751 A2 2752 A4 2753 A4 2755 A4 2762 B1 2771 A1 2775 A1 2779 A1 2782 B1 2784 A2 2785 A1 2788 B1 2791 B2 2792 B2 2793 B1 2794 B1 2795 A1 2796 B1 2797 B1 2798 B2 2799 A2 3701 A3 3703 B4 3704 A3 3705 B4 3706 B4 3707 B4 3708 B4 3709 B4 3710 B4 3712 B3 3713 B4 3715 A2 3717 A2 3718 B3 3719 B2 3720 B3 3722 B3 3723 B3 3724 B3 3727 A2 3728 A2 3729 A2 3730 A2 3731 A2 3750 A3 3753 A4 3754 A4 3755 A4 3756 A3 3757 B3 3766 A4 3770 B2 3771 A1 3772 A1 3775 A1 3776 A1 3778 A1 3779 B1 3780 B1 3781 B1 3782 B1 3783 B1 3784 B2 3785 B2 3786 B1 3787 B1 3788 B1 3789 B1 3790 B2 3792 B2 3793 B2 4700 A2 4701 A2 4705 B4 4706 A4 4707 A3 4708 B2 4709 B2 4710 A2 4711 A2 4712 B1 4713 B1 4714 B3 5701 B2 5702 B2 5703 B2 5704 B2 5705 A4 5708 B2 5709 B2 5711 B2 6710 B3 6752 A4 7707 B4 7750 A3 7755 A4 7784 B2 7789 B2 F701 B3 F702 B2 F703 A4 F704 A4 F705 B2 F706 B1 F707 A1 F708 B4 F709 B4 F710 A4 F711 A3 F712 B1 F713 B1 F714 A1 F715 A1 F716 B2 F717 A2 F718 A3 F719 A4 F720 A2 F721 B3 F722 A3 F723 A3 F724 B2 F725 B3 F726 B2 F727 B2 F728 B1 F729 B2 F730 B1

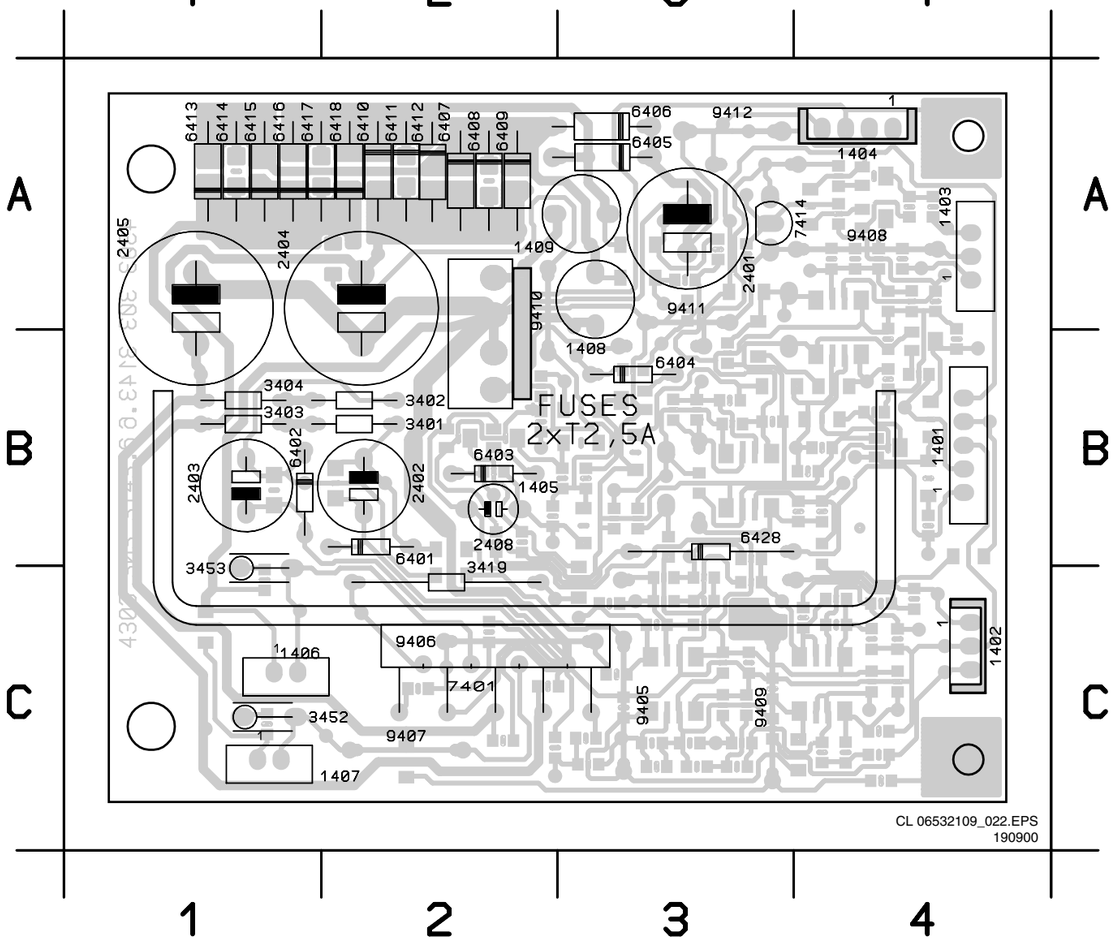


Amplifier Panel Surround Speakers



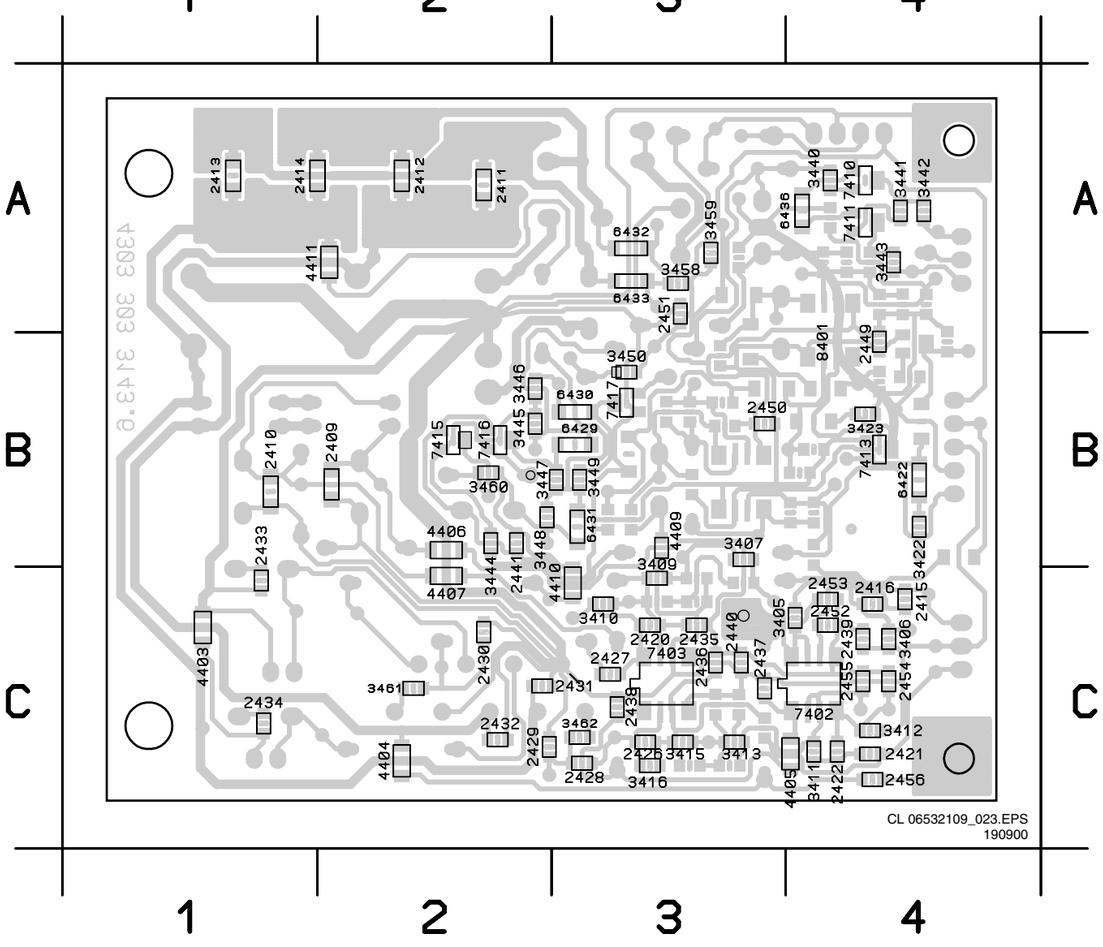
Layout Amplifier Panel Surround Speakers (Top Side)

1401 B4	1406 C1	2402 B2	3401 B1	3452 C1	6404 B3	6409 A2	6414 A1	6428 B3	9407 C2	9412 A3
1402 C4	1407 C1	2403 B1	3402 B1	3453 C1	6405 A2	6410 A2	6415 A1	7401 C2	9408 A4	
1403 A4	1408 A3	2404 B2	3403 B1	6401 B2	6406 A2	6411 A2	6416 A1	7414 A3	9409 C3	
1404 A4	1409 A2	2405 B1	3404 B1	6402 B1	6407 A2	6412 A2	6417 A1	9405 C3	9410 B2	
1405 B2	2401 A3	2408 B2	3419 C2	6403 B2	6408 A2	6413 A1	6418 A2	9406 C2	9411 A3	

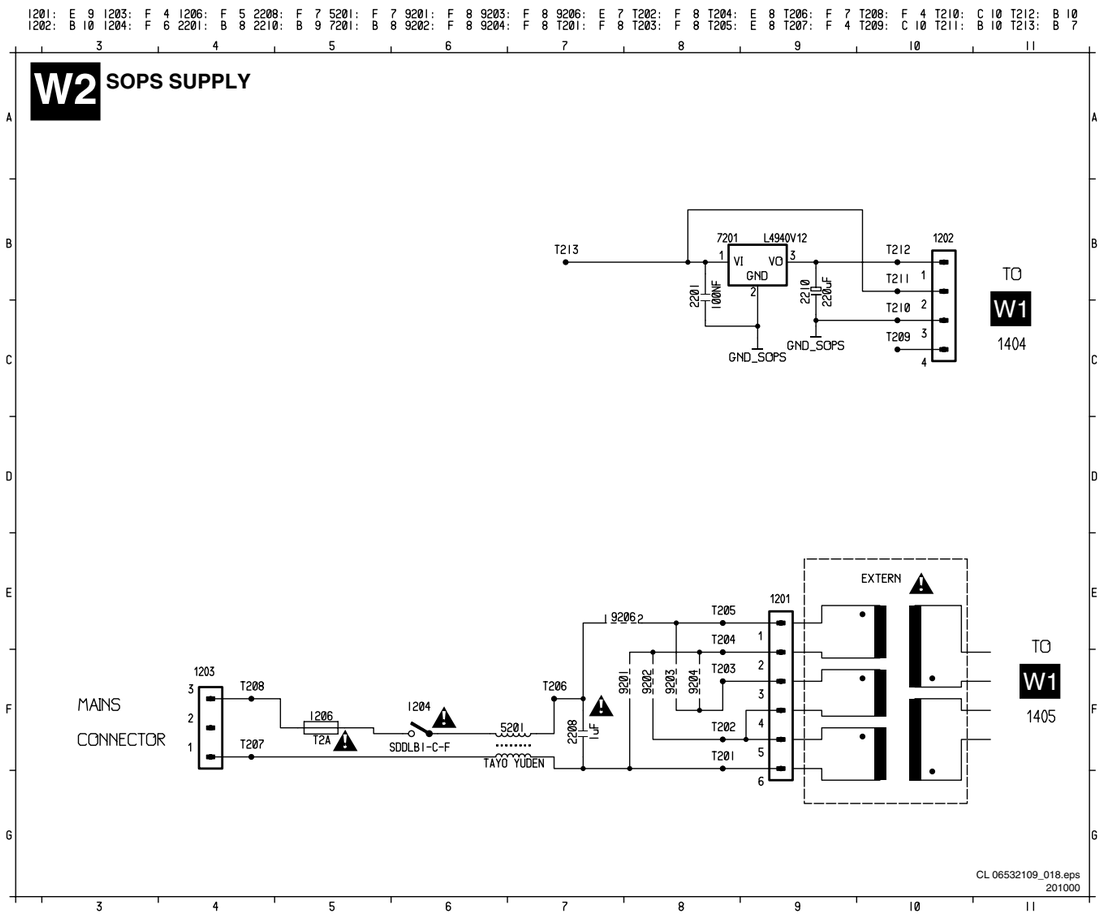


Layout Amplifier Panel Surround Speakers (Bottom Side)

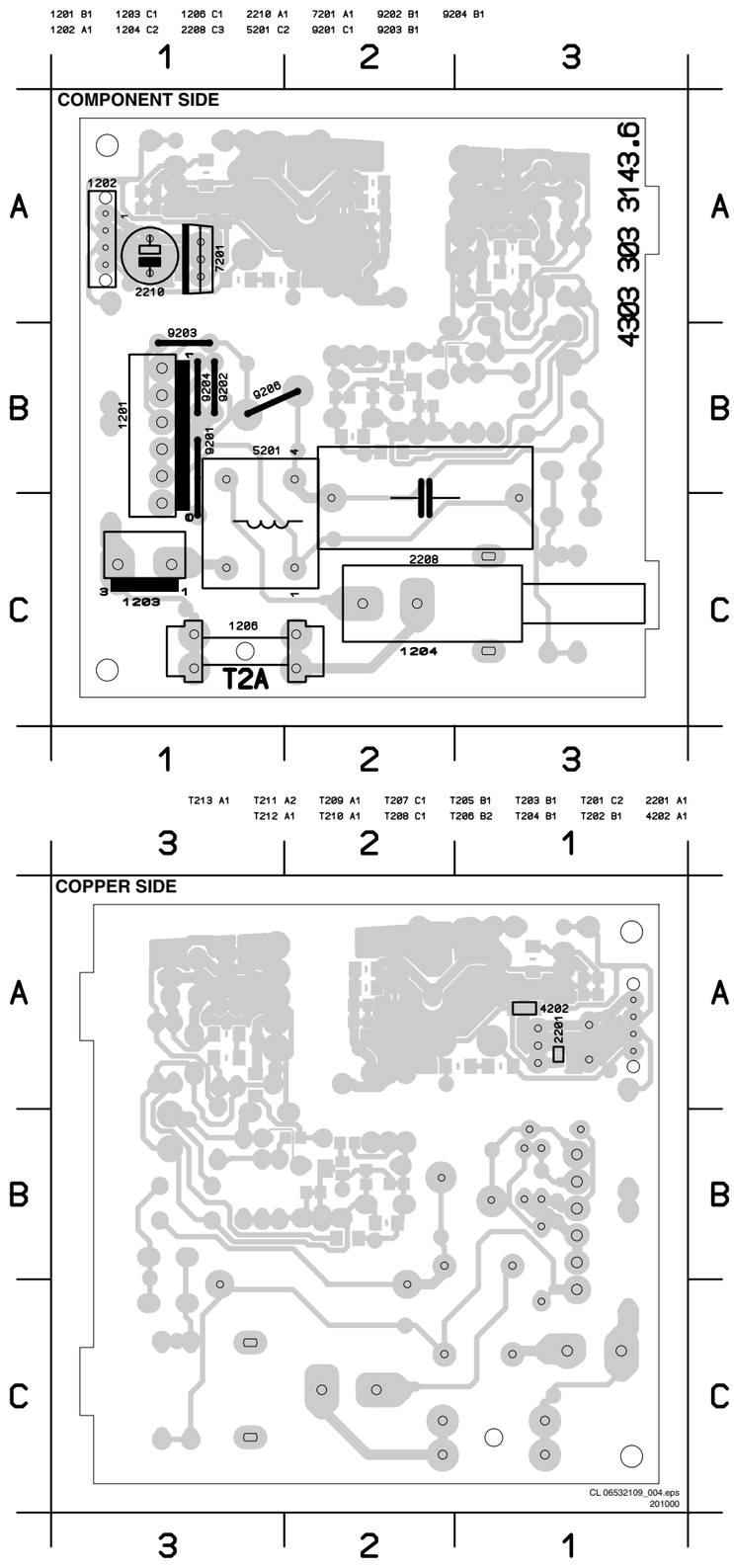
2409 B2	2428 C3	2441 B2	3410 C3	3445 B2	4405 C4	7402 C4	T405 A2	T419 B3	T454 C1	T470 C	
2410 B1	2429 C2	2449 B4	3411 C4	3446 B2	4406 B2	7403 C3	T406 B1	T420 C4	T455 C2	T471 A	
2411 A2	2430 C2	2450 B3	3412 C4	3447 B3	4407 C2	7410 A4	T407 A2	T421 B2	T456 C2	T472 A	
2412 A2	2431 C2	2451 A3	3413 C3	3448 B2	4409 B3	7411 A4	T408 B2	T423 B2	T457 C3		
2413 A1	2432 C2	2452 C4	3415 C3	3449 B3	4410 C3	7413 B4	T409 A2	T425 A3	T458 C2		
2414 A1	2433 C1	2453 C4	3416 C3	3450 B3	4411 A2	7415 B2	T410 B1	T426 A3	T459 C1		
2415 C4	2434 C1	2454 C4	3422 B4	3458 A3	6422 B4	7416 B2	T411 A3	T439 B4	T460 C2		
2416 C4	2435 C3	2455 C4	3423 B4	3459 A3	6429 B3	7417 B3	T412 A3	T444 B4	T461 C3		
2420 C3	2436 C3	2456 C4	3440 A4	3460 B2	6430 B3	9401 C3	T413 A3	T446 C2	T462 C3		
2421 C4	2437 C3	3405 C4	3441 A4	3461 C2	6431 B3	T401 A3	T414 A3	T447 C3	T463 B3		
2422 C4	2438 C3	3406 C4	3442 A4	3462 C3	6432 A3	T402 A3	T415 B3	T449 C3	T465 C3		
2426 C3	2439 C4	3407 B3	3443 A4	4403 C1	6433 A3	T403 A3	T416 B3	T451 C4	T466 C4		
2427 C3	2440 C3	3409 C3	3444 B2	4404 C2	6436 A4	T404 A2	T417 B2	T452 C4	T469 C4		



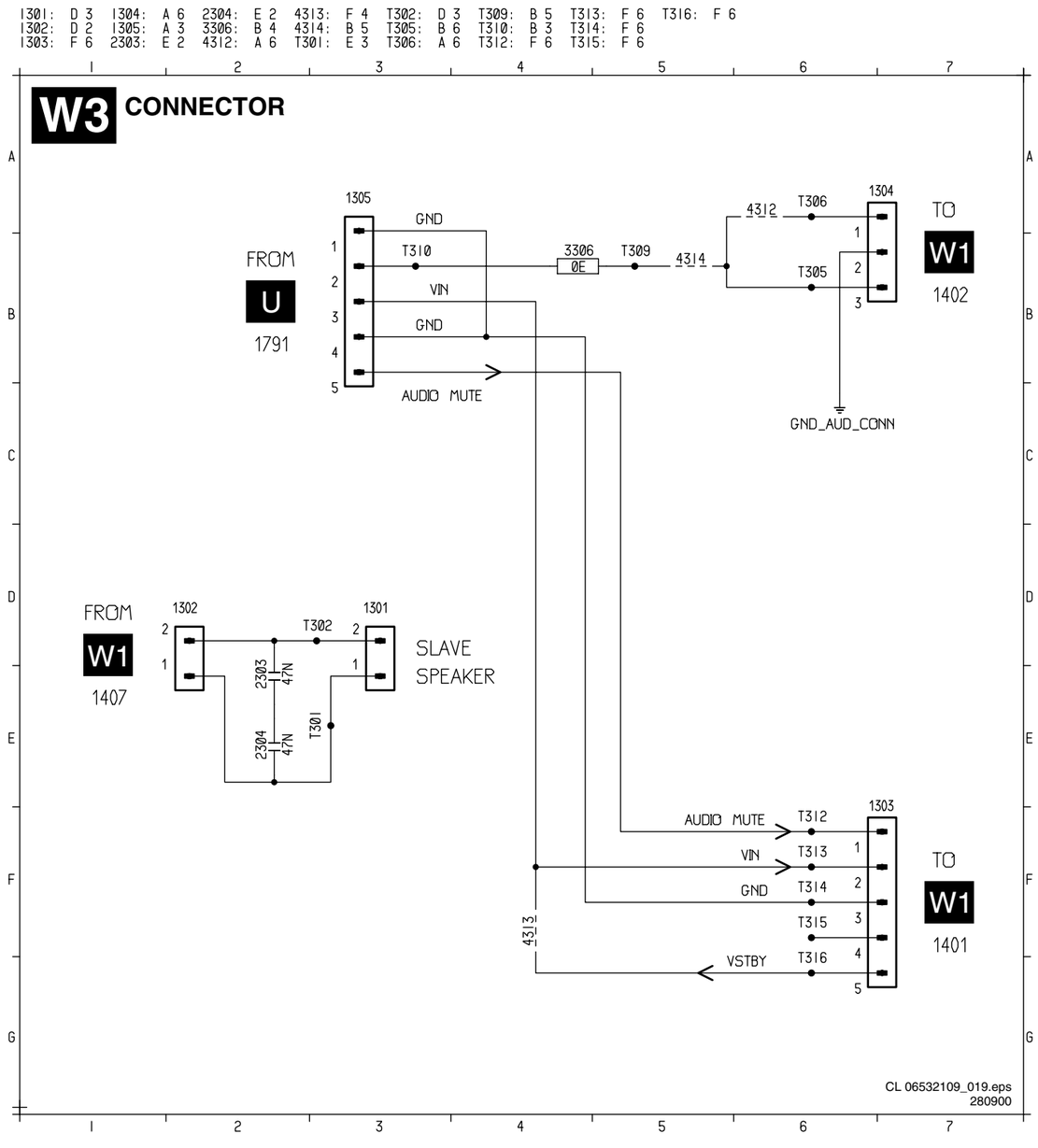
Supply Panel Surround Speakers



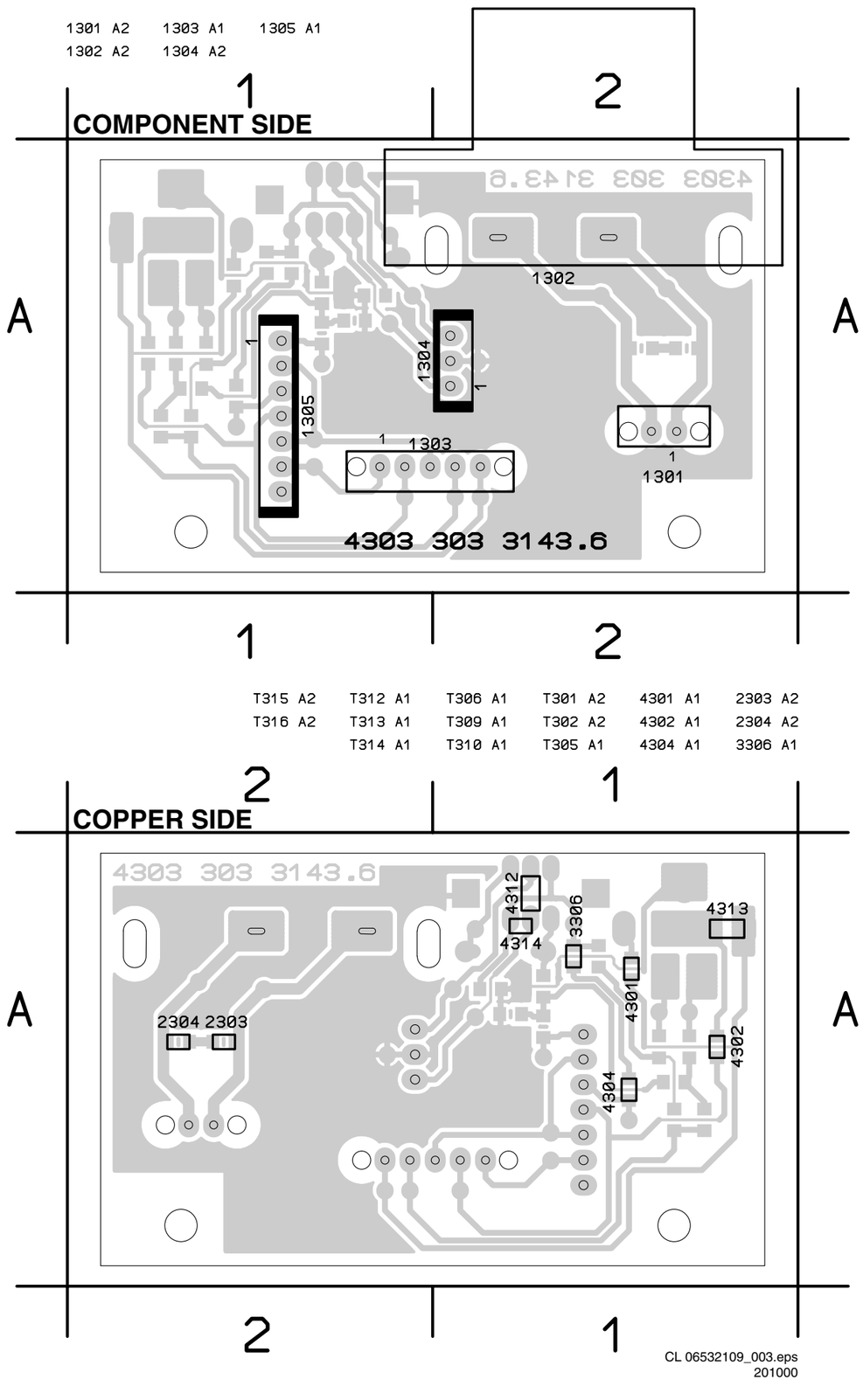
Layout Supply Panel Surround Speakers



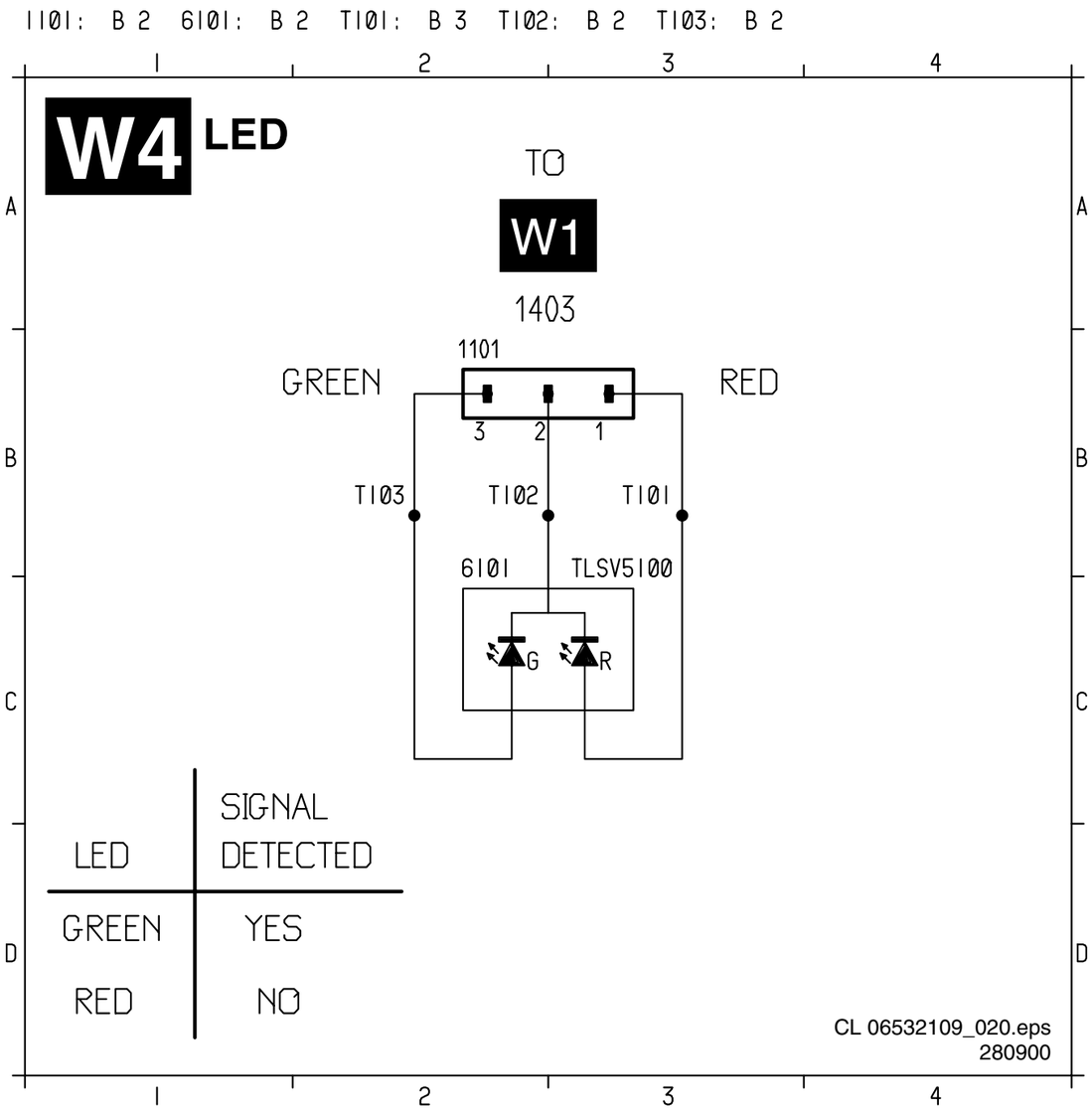
Connector Panel Surround Speakers



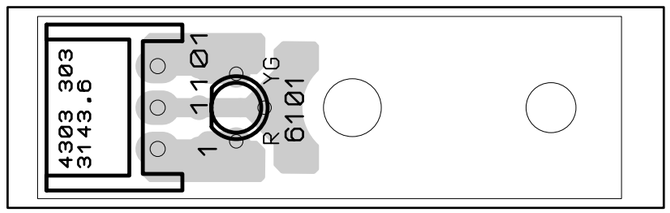
Layout Connector Panel Surround Speakers



LED Panel Surround Speakers



Layout LED Panel Surround Speakers



CL 06532109_021.eps
201000

Personal Notes:

8. Alignments

8.1 Reprogramming of New Mono Boards.

For Alignments of the TV-set see Service Manual 'EM5E AA' **(3122 785 12560).**
For Alignments of the DVD Module see Service Manual 'DVD Module SD-3' **(3122 785 11010)** and Service Information 'DVD SD3 Monoboard' **(3122 785 40490).**

Caution

This information is confidential and may not be distributed. Only a qualified service person should reprogram the mono board.

After reset of NV-memory or repair of the mono board, all the customer settings and also the region code will be lost.
Reprogramming of the mono board will put the DVD back in the state in which it has left the factory, i.e. with the default settings and the allowed region code.
Reprogramming is limited to 25 times
When the counter reaches 25, reprogramming is not possible anymore
Reprogramming will be done by way of the remote control.
Make sure that the TV set is in DVD mode.
Put the DVD in stop mode, no disc loaded.
Press the following keys on the remote control:
<***PLAY***> followed by numerical keys ***<1> <5> <9>***
Press now successively the following keys :

For Europe: <1><4><1><0><0><0><0><0><0><0><0><0>
For Russia only: <1><4><2><0><0><0><0><0><0><0><0><0>

Press <***PLAY***> again.
The TV screen will become BLUE during a short time to confirm that the mono board has been reprogrammed.

CL 26532086_016.eps
050702

Figure 8-1 Reprogamming code

9. Circuit Description

For circuit description of the TV-set see Service Manual 'EM5E AA' **(3122 785 12560).**
For circuit description of the DVD Module see Service Manual 'DVD Module SD-3' **(3122 785 11010)** and Service Information 'DVD SD3 Monoboard' **(3122 785 40490).**

9.1 List of Abbreviations

AC3	Digital Audio Compression standard
CDDA	Compact Disc Digital Audio
CSM	Customer Service Mode
DTS	Digital Theater Systems
DVD	Digital Versatile Disc
LPCM	Linear Pulse Code Modulation
LSP	Large Signal Panel
MPEG	Moving Picture Experts Group
OSD	On Screen Display
SAM	Service Alignment Mode
SDM	Service Default Mode

10. Spare parts list

Large signal panel [A]

Various

0011	3104 308 78231	Transistor cooling clip
0020	4822 492 70789	Transistor clamp
0030	3104 304 23001	LSP bracket
0037	3104 304 24131	LOT support bracket
0050	4822 466 93461	Insulating plate 20X25
0065	3104 304 22031	LOT spacer
0066	3104 304 23051	Connector support bracket
0067	3104 304 24921	Connecting part
0072	3104 304 24141	SSB bottom support bracket
0080	4822 492 70789	Transistor clamp
0125	3104 304 90361	Insulating plate 21X15
0320	4822 255 41371	Transistor clamp
0341	4822 492 63524	Transistor clamp
0342	4822 492 63524	Transistor clamp
0395	4822 492 70789	Transistor clamp
0396	4822 492 70789	Transistor clamp
0505	3122 121 24785	Transistor clamp
1146	4822 267 10734	Connector 5p m
1148	4822 252 11243	Fuse 1.25A
1149	4822 252 11243	Fuse 1.25A
1200	3139 147 17311	Tuner UV1316/A I U-3
1205	2422 025 17242	SIMM connector 80p
1417	4822 265 20723	Connector 2p
1424	2422 025 11244	Connector 7p m
1498	2422 025 04849	Connector 2p
1499	2422 025 04849	Connector 2p
1501	4822 070 35002	Fuse 5A
1502	4822 267 10774	Connector 2p male red
1503	4822 070 12502	Fuse 2.5A
1505	2422 025 16374	Connector 2p m
1511	4822 265 11253	Fuse holder
1512	4822 265 11253	Fuse holder
1520	4822 492 63524	Transistor clamp
1521	4822 492 63524	Transistor clamp
1522	4822 255 41371	Transistor clamp
1550	2422 132 07411	Relay G5PA-1
1590	4822 252 60151	DSP-501N-A21F
1601	2422 086 10919	Fuse 125mA 65V
1620	4822 267 10735	Connector 3p
1625	2422 025 16382	Connector 3p m
1735	4822 267 10565	Connector 4p
1737	2422 025 16382	Connector 3p m
1738	2422 025 16383	Connector 3p m
1901	4822 267 10771	Connector 42p f
1902	4822 267 10982	Connector 2p
1936	2422 025 12485	Connector 11p m
1937	4822 267 10557	Connector 10p
1940	2422 025 12485	Connector 11p m
1943	4822 267 10748	Connector 3p
1945	4822 267 10735	Connector 3p
1946	4822 265 41391	Connector 9p
1955	4822 267 10735	Connector 3p

⊣⊢

2100	4822 126 13841	1nF 20% 250V
2101	4822 121 51598	2.2nF 5% 400V
2102	4822 124 40248	10µF 20% 63V
2103	2020 552 94427	100pF 5% 50V
2104	4822 123 14025	2200µF 20% 16V
2105	2020 552 94427	100pF 5% 50V
2106	4822 126 13751	47nF 10% 63V
2107	4822 121 43855	3.3nF 5% 400V
2108	4822 121 70162	10nF 5% 400V
2109	4822 126 14472	1µF 10% 10V
2110	4822 126 14472	1µF 10% 10V
2111	4822 121 43526	47nF 5% 250V
2112	5322 126 11583	10nF 10% 50V 0603
2114	4822 121 10711	100nF 20% 275V
2115	4822 124 40764	22µF 100 V
2116	4822 126 13682	100pF 5% 1kV
2118	4822 124 80061	1000µF 20% 25V
2119	4822 123 14025	2200µF 20%16V
2120	4822 126 11524	1.5nF 10% 1KV
2126	4822 123 14025	2200µF 20% 16V
2130	5322 126 11583	10nF 10% 50V 0603
2131	5322 126 11578	1nF 10% 50V 0603
2140	4822 124 40248	10µF 20% 63V
2141	4822 124 40248	10µF 20% 63V
2144	4822 126 14472	1µF 10% 10V
2145	4822 126 13881	470pF 5% 50V
2147	3198 017 31530	15nF 50V
2148	4822 126 10206	2.2nF 10% 500V
2149	4822 126 14472	1µF 10% 10V
2150	5322 126 11583	10nF 10% 50V 0603
2152	4822 121 70162	10nF 5% 400V
2154	4822 126 14549	33nF 16V 0603
2200	4822 124 40248	10µF 20% 63V
2201	4822 126 13879	220nF 20% 16V
2202	4822 126 13473	220nF 20-80% 50V
2203	4822 124 80195	470µF 20% 10V
2400	4822 124 11575	47µF 20% 160V
2401	4822 121 42077	6.8nF 10% 400V
2402	2020 012 93596	22µF 20% 250V
2403	4822 126 14494	22nF 10% 25V 0603
2404	4822 126 14494	22nF 10% 25V 0603
2412	3198 024 44730	47nF 50V
2413	4822 124 12255	10µF 20% 50V
2414	3198 024 44730	47nF 50V
2415	4822 126 13883	220pF 5% 50V
2417	4822 126 14076	220nF 20% 25V
2419	4822 126 14237	470pF 10% R 2KV
2420	4822 121 70594	1nF 5% 2KV
2421	2038 301 00312	1.2µF 5% 250V
2425	4822 121 10526	9.1nF 5% 2KV
2426	4822 121 10551	27nF 5% 1600V
2430	4822 126 10206	2.2nF 10% 500V
2431	4822 126 10206	2.2nF 10% 500V
2433	4822 121 10518	390nF 5% 250V
2440	2020 552 96448	1µF 10% 16V1µF 10% 16V
2443	5322 122 34099	470pF 10% 63V
2448	5322 122 32268	63V 470P 5%
2450	5322 121 42578	100nF 5% 250V
2451	2020 012 93757	1000µF 20% 10V
2454	3198 017 31530	15nF 50V
2455	5322 126 11578	1nF 10% 50V 0603
2457	2020 552 96699	15nF 5% 25V
2458	4822 126 14241	330pF 50V 0603
2460	4822 124 81144	1000µF 16V
2461	4822 122 31169	1.5nF 10% 500V
2462	4822 124 80061	1000µF 20% 25V
2463	4822 122 31177	470pF 10% 500V
2464	4822 124 80061	1000µF 20% 25V
2465	4822 122 31177	470pF 10% 500V
2466	2238 586 59812	100nF 50V
2468	4822 122 31177	470pF 10% 500V
2480	5322 126 11582	6.8nF 10% 63V
2482	3198 017 34730	47nF 16V
2490	2020 021 91773	100µF 20% 10V
2491	4822 124 81151	22µF 50V
2492	4822 124 23432	100µF 20% 10V
2494	2238 780 15654	220nF 10% 16V
2495	2238 780 15654	220nF 10% 16V
2497	4822 126 12105	50V 33nF 5%
2498	2020 552 96448	1µF 10% 16V
2499	5322 126 11579	3.3nF 10% 63V
2501	4822 126 14053	1nF 10% 2KV
2503	5322 121 42489	33nF 5% 250V
2504	4822 126 14494	22nF 10% 25V 0603
2505	2020 554 90173	2.2nF 250V
2506	5322 121 42386	100nF 5% 63V
2507	4822 126 13589	470nF 275V
2508	4822 124 11913	22nF 20% 275V
2509	4822 124 11913	22nF 20% 275V
2510	4822 126 14053	1nF 10% 2KV
2511	4822 124 12417	2200µF 20% 25V
2512	4822 124 12417	2200µF 20% 25V
2513	4822 126 13881	470pF 5% 50V
2514	4822 126 14238	2.2nF 50V 0603
2515	4822 124 80096	47µF 200V
2516	4822 124 12415	220µF 20% 400V
2517	4822 121 70162	10nF 5% 400V
2518	4822 122 31211	100pF 10% 500V
2519	4822 126 10206	2.2nF 10% 500V
2520	4822 121 10711	100nF 20% 275V
2522	4822 126 10206	2.2nF 10% 500V
2525	4822 126 14247	1.5nF 50V 0603
2528	4822 126 14472	1µF 10% 10V
2530	4822 126 14472	1µF 10% 10V
2531	4822 122 31177	470pF 10% 500V
2535	4822 126 13193	4.7nF 10% 63V
2537	4822 124 11913	22nF 20% 275V
2538	4822 122 33177	10nF 20% 50V
2540	4822 124 40248	10µF 20% 63V
2541	4822 122 31211	100pF 10% 500V
2542	4822 124 80061	1000µF 20% 25V
2543	4822 124 80061	1000µF 20% 25V
2544	4822 126 14238	2.2nF 50V 0603
2601	2238 586 59812	100nF 50V
2603	4822 126 13883	220pF 5% 50V
2604	4822 126 13473	220nF 20-80% 50V
2605	4822 126 13883	220pF 5% 50V
2620	4822 126 13473	220nF 20-80% 50V
2621	2238 586 59812	100nF 50V
2622	4822 124 40255	100µF 20% 63V
2623	4822 126 14238	2.2nF 50V 0603
2624	4822 121 51252	470nF 5% 63V
2625	4822 121 51252	470nF 5% 63V
2627	5322 124 40641	10µF 20% 100V
2628	4822 124 40255	100µF 20% 63V
2630	5322 126 14103	2.2µF 20% 10V
2631	5322 126 14103	2.2µF 20% 10V
2633	5322 126 11579	3.3nF 10% 63V
2635	2238 586 59812	100nF 50V
2642	4822 124 40255	100µF 20% 63V
2653	5322 126 11579	3.3nF 10% 63V
2656	4822 126 14494	22nF 10% 25V 0603
2657	4822 126 14494	22nF 10% 25V 0603
2659	4822 126 14494	22nF 10% 25V 0603
2660	5322 126 11578	1nF 10% 50V 0603
2702	3198 016 31020	1nF 25V
2704	3198 016 31020	1nF 25V
2705	4822 126 13482	470nF 80/20% 16V
2706	4822 126 14585	100nF 10% 50V
2707	4822 126 14076	220nF 20% 25V
2708	4822 126 14076	220nF 20% 25V
2709	4822 126 13881	470pF 5% 50V
2710	4822 126 13881	470pF 5% 50V
2711	3198 016 31020	1nF 25V
2712	2020 552 96683	220nF 10% 50V
2713	4822 126 14076	220nF 20% 25V
2714	4822 126 14549	33nF 16V 0603
2715	3198 016 31020	1nF 25V
2716	4822 126 14241	330pF 50V 0603
2717	5322 121 42498	680nF 5% 63V
2718	2222 867 15339	33pF 5% 50V 0603
2719	3198 016 31020	1nF 25V
2720	4822 126 14076	220nF 20% 25V
2721	4822 126 13881	470pF 5% 50V
2722	4822 126 13881	470pF 5% 50V
2723	3198 016 31020	1nF 25V
2724	2020 552 96683	220nF 10% 50V
2725	3198 016 31020	1nF 25V
2726	4822 126 14549	33nF 16V 0603
2727	3198 016 31020	1nF 25V
2728	4822 126 14241	330pF 50V 0603
2729	5322 121 42498	680nF 5% 63V
2740	4822 121 51252	470nF 5% 63V
2741	2222 867 15339	33pF 5% 50V 0603
2742	4822 126 14241	330pF 50V 0603
2743	4822 126 12105	33nF 5% 50V
2744	4822 126 12105	33nF 5% 50V
2745	4822 126 14241	330pF 50V 0603
2746	3198 016 31020	1nF 25V
2747	4822 126 13881	470pF 5% 50V
2748	2020 552 96683	220nF 10% 50V
2749	5322 126 14103	2.2µF 20% 10V
2750	2238 586 59812	100nF 50V
2751	4822 126 14585	100nF 10% 50V
2753	4822 126 14076	220nF 25V 20%
2754	5322 126 14103	2.2µF 20% 10V
2755	3198 016 31020	1nF 25V
2756	4822 126 13881	470pF 5% 50V
2757	2020 552 96683	220nF 10% 50V
2758	5322 121 42498	680nF 5% 63V
2759	5322 126 10511	1nF 5% 50V
2760	5322 122 32268	470P 5% 63V
2761	4822 126 13881	470pF 5% 50V
2762	4822 126 14076	220nF 20% 25V
2763	4822 126 14076	220nF 20% 25V
2777	2020 552 96684	470nF 10% 25V
2778	4822 124 41751	47µF 20% 50V
2779	2020 552 96684	470nF 10% 25V
2780	2020 552 96684	470nF 10% 25V
2781	2020 552 96684	470nF 10% 25V
2782	2020 552 96684	470nF 10% 25V
2783	2020 552 96684	470nF 10% 25V
2784	2020 552 96684	470nF 10% 25V
2785	2020 552 96684	470nF 10% 25V
2786	4822 126 14494	22nF 10% 25V 0603
2787	4822 126 14494	22nF 10% 25V 0603
2788	2020 552 94427	100pF 5% 50V
2789	2020 552 94427	100pF 5% 50V
2790	2020 552 94427	100pF 5% 50V
2794	2020 552 94427	100pF 5% 50V
2795	2020 552 94427	100pF 5% 50V
2796	2020 552 94427	100pF 5% 50V
2797	2020 552 94427	100pF 5% 50V
2798	2020 552 94427	100pF 5% 50V
2914	4822 124 40248	10µF 20% 63V
2915	4822 124 12255	10µF 20% 50V
2929	4822 126 13879	220nF 20% 16V

2940	4822 124 23432	100µF 20% 10V
2941	4822 126 14585	100nF 10% 50V
2942	4822 126 14585	100nF 10% 50V
2943	4822 126 14585	100nF 10% 50V
2945	5322 126 14103	2.2µF 20% 10V
2946	5322 126 14103	2.2µF 20% 10V
2947	2020 021 90141	4.7µF 20% 50V
2948	4822 124 23432	100µF 20% 10V
2949	4822 124 23432	100µF 20% 10V
2950	5322 126 11583	10nF 10% 50V 0603
2951	5322 126 11583	10nF 10% 50V 0603
2985	4822 126 14315	390pF 5% 50V 0603
2987	5322 122 31863	330pF 5% 63V
2989	5322 122 31863	330pF 5% 63V
2990	5322 122 31863	330pF 5% 63V
2991	5322 122 32531	100pF 5% 50V
2992	5322 122 31863	330pF 5% 63V
2993	5322 122 32531	100pF 5% 50V
2994	5322 122 31863	330pF 5% 63V
2995	5322 122 31863	330pF 5% 63V
2996	5322 122 31863	330pF 5% 63V
2997	5322 122 31863	330pF 5% 63V
2998	5322 122 32531	100pF 5% 50V
2999	5322 122 32531	100pF 5% 50V

3101	4822 053 20106	10M 5% 0.25W
3102	4822 050 21002	1k 1% 0.6W
3103	4822 050 21002	1k 1% 0.6W
3104	4822 116 52195	47Ω 5% 0.5W
3105	4822 050 11002	1k 1% 0.4W
3106	4822 116 52256	2k2 5% 0.5W
3107	4822 116 52256	2k2 5% 0.5W
3108	4822 116 80676	1.5Ω 5% 0.5W
3111	4822 053 10152	1k5 5% 1W
3113	4822 116 52186	22Ω 5% 0.5W
3114	4822 116 83872	220Ω 5% 0.5W
3115	4822 116 52257	22k 5% 0.5W
3116	4822 116 52257	22k 5% 0.5W
3117	4822 116 52195	47Ω 5% 0.5W
3118	4822 116 80676	1.5Ω 5% 0.5W
3120	4822 051 20109	10Ω 5% 0.1W
3123	4822 051 30109	10Ω 5% 0.062W
3124	4822 116 52199	68Ω 5% 0.5W
3125	4822 116 52182	15Ω 5% 0.5W
3126	4822 050 21003	10k 1% 0.6W
3127	4822 116 52289	5k6 5% 0.5W
3130	4822 051 30479	47Ω 5% 0.062W
3131	4822 051 30471	470Ω 5% 0.062W
3132	4822 051 20479	47Ω 5% 0.1W
3133	4822 117 10834	47k 1% 0.1W
3134	4822 051 30102	1k 5% 0.062W
3135	4822 051 30101	100Ω 5% 0.062W
3136	4822 051 30109	10Ω 5% 0.062W
3137	4822 050 24702	4k7 1% 0.6W
3140	4822 117 10837	100k 1% 0.1W
3141	4822 116 52263	2k7 5% 0.5W
3142	4822 051 30332	3k3 5% 0.062W
3143	4822 051 30101	100Ω 5% 0.062W
3144	4822 116 83883	470Ω 5% 0.5W
3150	4822 117 11373	100Ω 1% 0805
3151	4822 051 30101	100Ω 5% 0.062W
3152	4822 051 30102	1k 5% 0.062W
3153	4822 051 20472	4k7 5% 0.1W
3155	4822 051 30101	100Ω 5% 0.062W
3156	5322 117 13017	100Ω 1% 0.063W 0603
3157	4822 051 30103	10k 5% 0.062W
3158	5322 117 13021	47Ω 1% 0.063W 0603
3159	4822 051 30103	10k 5% 0.062W
3160	4822 051 30102	1k 5% 0.062W
3161	4822 052 10221	220Ω 5% 0.33W
3162	4822 116 83883	470Ω 5% 0.5W
3164	4822 117 13632	100k 1% 0603 0.62W
3165	4822 051 30331	330Ω 5% 0.062W
3168	4822 051 20472	4k7 5% 0.1W
3170	4822 116 52291	56k 5% 0.5W
3200	4822 117 11373	100Ω 1% 0805
3201	4822 117 11373	100Ω 1% 0805
3250	4822 051 20223	22k 5% 0.1W
3261	4822 117 11373	100Ω 1% 0805
3262	4822 117 11373	100Ω 1% 0805
3400	4822 052 11108	1Ω 5% 0.5W
3401	2120 105 93473	27Ω 5% 3W
3402	4822 053 10121	120Ω 5% 1W
3403	4822 116 52175	100Ω 5% 0.5W
3404	4822 051 30471	470Ω 5% 0.062W
3406	4822 117 11373	100Ω 1% 0805
3407	4822 051 30103	10k 5% 0.062W
3409	4822 050 11002	1k 1% 0.4W
3410	4822 051 20479	47Ω 5% 0.1W
3411	4822 116 52193	39Ω 5% 0.5W
3412	4822 117 11817	1k2 1% 1/16W
3414	4822 051 30331	330Ω 5% 0.062W
3415	3198 012 31590	15Ω 3W
3417	4822 116 52176	10Ω 5% 0.5W
3418	4822 050 25603	56k 1% 0.6W
3419	4822 051 30474	470k 5% 0.062W
3420	4822 051 30332	3k3 5% 0.062W
3421	4822 051 30474	470k 5% 0.062W
3422	4822 051 30332	3k3 5% 0.062W
3423	4822 053 10688	6Ω8 5% 1W
3425	4822 116 52176	10Ω 5% 0.5W
3426	4822 116 52176	10Ω 5% 0.5W
3431	2306 207 03151	150Ω 5%
3440	4822 051 30102	1k 5% 0.062W
3441	4822 051 30223	22k 5% 0.062W
3442	4822 051 30474	470k 5% 0.062W
3443	4822 051 30684	680k 5% 0.062W
3447	4822 117 11373	100Ω 1% 0805
3449	4822 052 10101	100Ω 5% 0.33W
3450	4822 050 21003	10k 1% 0.6W
3451	4822 050 21003	10k 1% 0.6W
3454	4822 051 20108	1Ω 5% 0.1W
3455	4822 117 12902	8k2 1% 0.063W 0603
3456	4822 117 12903	1k8 1% 0.063W 0603
3457	4822 051 30152	1k5 5% 0.062W
3458	4822 051 30471	470Ω 5% 0.062W
3459	4822 051 30272	2k7 5% 0.062W
3460	4822 052 10108	1Ω 5% 0.33W
3461	4822 052 10108	1Ω 5% 0.33W
3462	4822 052 11108	1Ω 5% 0.5W
3463	4822 052 11108	1Ω 5% 0.5W
3464	4822 052 11108	1Ω 5% 0.5W
3465	4822 052 11108	1Ω 5% 0.5W
3466	4822 051 30472	4k7 5% 0.062W
3467	4822 117 13632	100k 1% 0603 0.62W
3472	4822 051 30393	39k 5% 0.062W
3474	4822 051 30563	56k 5% 0.062W
3475	4822 051 30472	4k7 5% 0.062W
3476	4822 116 83874	220k 5% 0.5W
3478	4822 116 52175	100Ω 5% 0.5W
3479	4822 052 10478	4Ω7 5% 0.33W
3480	4822 052 10688	6Ω8 5% 0.33W
3481	2322 750 61001	100Ω 5% 1206
3482	4822 051 30221	220Ω 5% 0.062W
3483	4822 117 12903	1k8 1% 0.063W 0603
3485	4822 051 30471	470Ω 5% 0.062W
3486	2120 108 94004	7k5 1% 3W
3487	4822 117 12902	8k2 1% 0.063W 0603
3488	4822 050 26804	680k 1% 0.6W
3489	4822 051 30103	10k 5% 0.062W
3490	4822 051 30332	3k3 5% 0.062W
3491	4822 117 12925	47k 1% 0.063W 0603
3492	4822 116 52175	100Ω 5% 0.5W
3493	4822 050 21504	150k 1% 0.6W
3495	4822 050 21503	15k 1% 0.6W
3496	4822 051 30272	2k7 5% 0.062W
3497	4822 051 30333	33k 5% 0.062W
3501	4822 116 83872	220Ω 5% 0.5W
3504	4822 051 30222	2k2 5% 0.062W
3505	4822 116 52257	22k 5% 0.5W
3506	4822 051 30562	5k6 5% 0.063W 0603 RC21 RST SM
3507	4822 050 21604	160k 1% 0.6W
3508	4822 116 52182	15Ω 5% 0.5W
3509	2322 595 90022	VDR 1mA 612V
3510	4822 117 11454	820Ω 1% 0.1W
3511	4822 053 11222	2k2 5% 2W
3512	4822 117 12891	220k 1% ERJ3Ω
3513	4822 116 52272	330k 5% 0.5W
3514	2322 193 53397	0.39Ω 5%
3515	2322 193 53397	0.39Ω 5%
3517	4822 117 10834	47k 1% 0.1W
3518	4822 116 52245	150k 5% 0.5W
3519	4822 051 30102	1k 5% 0.062W
3520	4822 053 11333	33k 5% 2W
3521	4822 053 21475	4M7 5% 0.5W
3522	4822 117 11507	6k8 1% 0.1W
3523	4822 051 20105	1M 5% 0.1W
3524	4822 051 30333	33k 5% 0.062W
3525	4822 051 30479	47Ω 5% 0.062W
3526	4822 116 83303	Ω1 2W
3527	4822 117 11951	2k 1% 0.1W
3528	4822 051 30103	10k 5% 0.062W
3529	4822 051 30472	4k7 5% 0.062W
3530	4822 051 30102	1k 5% 0.062W
3531	4822 117 11507	6k8 1% 0.1W
3532	4822 117 12925	47k 1% 0.063W 0603
3533	4822 116 52182	15Ω 5% 0.5W
3534	4822 117 12925	47k 1% 0.063W 0603
3535	4822 051 30479	47Ω 5% 0.062W
3536	4822 052 10102	1k 5% 0.33W
3537	4822 116 52182	15Ω 5% 0.5W
3540	4822 050 23303	33k 1% 0.6W
3543	4822 050 24708	4.7Ω 1% 0.6W
3547	4822 051 30008	Jumper 0603
3549	5322 117 13039	220k 1% 0.063W 0603 RC22H
3550	2322 662 96858	4.5Ω 2% 276V
3551	4822 116 83872	220Ω 5% 0.5W
3552	4822 051 30222	2k2 5% 0.062W
3553	4822 051 30103	10k 5% 0.062W
3610	4822 051 30223	22k 5% 0.062W
3611	4822 051 30222	2k2 5% 0.062W
3620	4822 116 80176	1Ω 5% 0.5W
3621	4822 116 80676	1.5Ω 5% 0.5W
3622	4822 116 81039	1.8Ω 5% 0.5W
3623	4822 116 52251	18k 5% 0.5W
3624	4822 052 10158	1.5Ω 5% 0.33W
3625	4822 116 83872	220Ω 5% 0.5W
3626	4822 116 83872	220Ω 5% 0.5W
3627	4822 051 20223	22k 5% 0.1W
3630	4822 051 30333	33k 5% 0.062W
3631	4822 051 30222	2k2 5% 0.062W
3632	4822 051 30393	39k 5% 0.062W
3633	4822 051 30563	56k 5% 0.062W
3634	4822 116 83882	39k 5% 0.5W
3635	4822 116 52219	330Ω 5% 0.5W
3636	4822 051 30223	22k 5% 0.062W
3637	4822 051 30103	10k 5% 0.062W
3638	4822 051 30474	470k 5% 0.062W
3639	4822 051 30563	56k 5% 0.062W
3640	4822 051 30222	2k2 5% 0.062W
3641	4822 116 83883	470Ω 5% 0.5W
3642	4822 101 11193	47k 30% LIN 0.1W
3643	4822 051 30334	330k 5% 0.062W
3644	4822 051 30221	220Ω 5% 0.062W
3645	4822 116 52245	150k 5% 0.5W
3646	4822 117 12925	47k 1% 0.063W 0603
3647	4822 051 20228	2.2Ω 5% 0.1W
3652	4822 051 20479	47Ω 5% 0.1W
3653	4822 051 20223	22k 5% 0.1W
3655	4822 051 30123	12k 5% 0.062W
3656	4822 117 11817	1k2 1% 1/16W
3657	4822 051 30223	22k 5% 0.062W
3658	4822 051 30223	22k 5% 0.062W
3659	4822 051 30222	2k2 5% 0.062W
3660	4822 051 30562	5k6 5% 0.063W 0603 RC21 RST SM
3661	4822 116 83883	470Ω 5% 0.5W
3662	4822 051 30152	1k5 5% 0.062W
3681	4822 116 52207	1k2 5% 0.5W
3682	4822 117 13632	100k 1% 0603 0.62W
3683	4822 051 30103	10k 5% 0.062W
3684	4822 051 30682	6k8 5% 0.062W
3685	4822 051 30273	27k 5% 0.062W
3686	4822 051 30563	56k 5% 0.062W
3687	4822 116 52207	1k2 5% 0.5W
3688	4822 051 20684	680k 5% 0.1W
3701	4822 051 30103	10k 5% 0.062W
3702	4822 051 30103	10k 5% 0.062W
3703	4822 051 30333	33k 5% 0.062W
3704	4822 117 10833	10k 1% 0.1W
3705	4822 051 20828	8.2Ω 5% 0.1W
3706	4822 051 30472	4k7 5% 0.062W
3707	4822 051 30683	68k 5% 0.062W
3708	4822 051 30563	56k 5% 0.062W
3709	4822 117 11503	220Ω 1% 0.1W
3710	4822 051 30223	22k 5% 0.062W
3711	4822 050 11204	120k 1% 0.4W
3712	4822 117 12706	10k 1% 0.063W CASE0603 RC22H
3713	4822 116 83884	47k 5% 0.5W
3714	4822 117 12925	47k 1% 0.063W 0603
3715	4822 117 12925	47k 1% 0.063W 0603
3716	4822 117 12925	47k 1% 0.063W 0603
3717	4822 117 13632	100k 1% 0603 0.62W
3718	4822 117 13632	100k 1% 0603 0.62W
3719	4822 117 11503	220Ω 1% 0.1W
3720	4822 117 11503	220Ω 1% 0.1W
3721	4822 051 30472	4k7 5% 0.062W
3722	4822 051 30683	68k 5% 0.062W
3723	4822 051 30563	56k 5% 0.062W
3724	4822 117 11503	220Ω 1% 0.1W
3725	4822 051 30223	22k 5% 0.062W
3726	4822 117 11503	220Ω 1% 0.1W
3727	4822 117 11503	220Ω 1% 0.1W
3728	4822 116 52234	100k 5% 0.5W
3729	4822 117 10837	100k 1% 0.1W
3730	4822 117 11503	220Ω 1% 0.1W
3731	4822 117 11503	220Ω 1% 0.1W
3732	4822 051 30223	22k 5% 0.062W
3733	4822 051 30223	22k 5% 0.062W
3734	4822 051 20124	120k 5% 0.1W
3735	4822 051 30683	68k 5% 0.062W
3736	4822 051 30563	56k 5% 0.062W
3737	4822 051 30472	4k7 5% 0.062W
3738	4822 051 20828	8.2Ω 5% 0.1W
3739	4822 051 30683	68k 5% 0.062W
3740	4822 051 30472	4k7 5% 0.062W

3741	2322 704 61243	12k4 1% 0603
3742	4822 051 30563	56k 5% 0.062W
3743	4822 117 11449	2k2 5% 0.1W 0805
3745	4822 051 30102	1k 5% 0.062W
3746	4822 051 30223	22k 5% 0.062W
3748	4822 051 30008	Jumper 0603
3749	4822 116 83883	470Ω 5% 0.5W
3750	4822 117 11449	2k2 5% 0.1W 0805
3751	4822 117 11449	2k2 5% 0.1W 0805
3752	4822 117 11449	2k2 5% 0.1W 0805
3790	4822 051 30272	2k7 5% 0.062W
3791	4822 051 30272	2k7 5% 0.062W
3792	4822 051 30103	10k 5% 0.062W
3793	4822 051 30103	10k 5% 0.062W
3794	4822 051 30103	10k 5% 0.062W
3795	4822 051 30103	10k 5% 0.062W
3796	4822 051 30272	2k7 5% 0.062W
3797	4822 051 30272	2k7 5% 0.062W
3798	4822 051 30153	15k 5% 0.062W
3903	4822 051 20561	560Ω 5% 0.1W
3904	4822 052 10688	6.8Ω 5% 0.33W
3907	4822 051 20479	47Ω 5% 0.1W
3910	4822 117 12521	68Ω 1% 0.1W
3928	4822 051 30008	Jumper 0603
3938	4822 117 11373	100Ω 1% 0805
3939	4822 051 30103	10k 5% 0.062W
3940	4822 051 20561	560Ω 5% 0.1W
3941	4822 052 10688	6.8Ω 5% 0.33W
3942	4822 117 11373	100Ω 1% 0805
3943	4822 051 30103	10k 5% 0.062W
3945	4822 117 12955	2k7 1% 0.1W 0805
3959	4822 117 10353	150Ω 1% 0.1W
3960	4822 117 10353	150Ω 1% 0.1W
3961	4822 117 10353	150Ω 1% 0.1W
3962	4822 117 10353	150Ω 1% 0.1W
3965	4822 117 10353	150Ω 1% 0.1W
3966	4822 117 10353	150Ω 1% 0.1W
3967	4822 116 52201	75Ω 5% 0.5W
3968	4822 116 52201	75Ω 5% 0.5W
3969	4822 051 20008	Jumper 0805
3970	4822 051 20008	Jumper 0805
3971	4822 116 52201	75Ω 5% 0.5W
3972	4822 116 52202	82Ω 5% 0.5W
3973	4822 116 52201	75Ω 5% 0.5W
3974	4822 116 52201	75Ω 5% 0.5W
3975	4822 116 52201	75Ω 5% 0.5W
3976	4822 117 11373	100Ω 1% 0805
3977	4822 117 11373	100Ω 1% 0805
3978	4822 117 11373	100Ω 1% 0805
3979	4822 116 52201	75Ω 5% 0.5W
3980	4822 117 11373	100Ω 1% 0805
3981	4822 051 20822	8k2 5% 0.1W
3982	4822 051 20392	3k9 5% 0.1W
3983	4822 116 52175	100Ω 5% 0.5W
3984	4822 051 20822	8k2 5% 0.1W
3985	4822 116 52201	75Ω 5% 0.5W
3986	4822 116 52276	3k9 5% 0.5W
3987	4822 116 52175	100Ω 5% 0.5W
3988	4822 051 10102	1k 2% 0.25W
3989	4822 050 11002	1k 1% 0.4W
3990	4822 117 10353	150Ω 1% 0.1W
3991	4822 117 10353	150Ω 1% 0.1W
3992	4822 117 10353	150Ω 1% 0.1W
3993	4822 116 83868	150Ω 5% 0.5W
3994	4822 051 10102	1k 2% 0.25W
3995	4822 051 10102	1k 2% 0.25W
3996	4822 117 10353	150Ω 1% 0.1W
3997	4822 117 10353	150Ω 1% 0.1W

5100	3104 308 20561	SMD transformer BS25126-03
5102	2422 535 94639	10µH 20%
5103	4822 526 10704	Bead 45Ω@50MHz
5104	4822 157 11411	Bead 83Ω@100MHz
5105	2422 535 94632	1µH 30%
5106	4822 526 10704	Bead 45Ω@50MHz
5111	4822 526 11411	Bead 83Ω@100MHz</
5113	4822 526 11411	Bead 83Ω@100MHz</
5130	4822 526 11411	Bead 83Ω@100MHz</
5400	4822 157 11869	33µH 10% LHL08TB330K
5401	2422 536 00059	12µH 10%
5402	3198 018 21510	150µH 10%
5410	3128 138 39091	Transformer CE165T
5411	4822 157 71097	0.56µH
5421	3128 138 57871	Linarity coil 32"
5422	4822 146 11137	Bridge coil 32"
5423	4822 157 71097	0.56µH
5425	4822 526 11411	Bead 83Ω@100MHz</
5426	4822 157 70826	2.4µH
5430	3104 308 20491	LOT 1392.9014A
5461	4822 526 11411	Bead 83Ω@100MHz</
5463	4822 526 11411	Bead 83Ω@100MHz</
5465	4822 526 11411	Bead 83Ω@100MHz</
5467	4822 526 11411	Bead 83Ω@100MHz</
5469	4822 526 11411	Bead 83Ω@100MHz</
5503	2422 549 44877	Mainsfilter 45mH 1.5A
5505	4822 526 11411	Bead 83Ω@100MHz</
5506	2422 531 02501	Bead 83Ω@100MHz
5507	4822 526 11411	Bead 83Ω@100MHz</
5509	4822 526 11411	Bead 83Ω@100MHz</
5511	2422 549 44873	Mainsfilter 56mH
5513	4822 157 11869	33µH 10% LHL08TB330K
5514	4822 157 11869	33µH 10% LHL08TB330K
5515	4822 157 11869	33µH 10% LHL08TB330K
5620	4822 157 11771	Bead 90Ω@100MHz
5621	2422 531 02528	SMD transformer S13974-02
5701	2422 536 00385	68µH 10%
5702	2422 536 00385	68µH 10%
5703	4822 157 11716	Bead 30Ω@100MHz
5707	4822 526 11411	Bead 83Ω@100MHz</
5708	4822 526 11411	Bead 83Ω@100MHz</
5711	4822 526 11411	Bead 83Ω@100MHz</
5712	4822 526 11411	Bead 83Ω@100MHz</
5715	4822 526 11411	Bead 83Ω@100MHz</
5716	4822 526 11411	Bead 83Ω@100MHz</
5720	2422 536 00385	68µH 10%
5721	2422 536 00385	68µH 10%
5722	4822 526 11411	Bead 83Ω@100MHz</
5723	4822 526 11411	Bead 83Ω@100MHz</
5725	4822 526 11411	Bead 83Ω@100MHz</
5901	4822 157 11299	10µH 10%
5902	4822 157 11869	33µH 10%
5903	4822 157 10359	33µH

6080	4822 130 11397	BAS316
6082	4822 130 11528	1PS76SB10
6084	4822 130 31024	BZX79-B18
6103	4822 130 42488	BYD33D
6105	4822 130 34281	BZX79-B15
6106	3198 010 52290	BZX79-B22
6107	4822 130 11572	STPS8H100F
6108	4822 130 11528	1PS76SB10
6109	4822 130 31083	BYW55
6110	9340 418 70133	DIO REC BYV27-600 A (PHSE) A
6112	4822 130 11551	UDZS10B
6113	4822 130 11596	BYW29EX-200
6115	4822 130 11528	1PS76SB10
6120	4822 130 30621	1N4148
6121	4822 130 30621	1N4148
6122	3198 010 53980	BZX79-B3V9
6130	4822 130 11596	BYW29EX-200
6132	9322 171 80685	DIO REG SM BZX384-B6V8(GI00) R
6133	4822 130 11397	BAS316
6134	4822 130 11397	BAS316
6141	9322 129 42685	BZM55-C15
6142	4822 130 11528	1PS76SB10
6144	4822 130 11397	BAS316
6147	4822 130 34278	BZX79-B6V8
6149	4822 130 11397	BAS316
6200	9340 548 71115	PDZ33B
6201	9340 255 30135	BAS216
6202	9340 255 30135	BAS216
6400	4822 130 70055	BYV27-400
6405	4822 130 34383	BZX79-B47
6406	4822 130 11397	BAS316
6407	4822 130 11397	BAS316
6408	4822 130 42488	BYD33D
6421	4822 130 10753	BY359X-1500
6422	4822 130 10218	BY229X-800
6442	9322 129 42685	BZM55-C15
6455	4822 130 11397	BAS316
6456	5322 130 34337	BAV99
6457	9322 102 64685	UDZ2.7B
6458	3198 020 55680	BZX384-C5V6
6460	4822 130 41487	BYV95C
6462	9322 127 32682	BYW76-RAS15/10
6464	9322 127 32682	BYW76-RAS15/10
6480	4822 130 42488	BYD33D
6481	9322 129 42685	BZM55-C15
6482	4822 130 11397	BAS316
6483	4822 130 11528	1PS76SB10
6493	4822 130 11528	1PS76SB10
6499	9340 548 58115	PDZ9.1B
6505	4822 130 34281	BZX79-B15
6506	4822 130 10654	BAT254
6509	4822 130 11397	BAS316
6510	4822 130 61219	BZX79-B10
6511	4822 130 11397	BAS316
6512	4822 130 11397	BAS316
6514	5322 130 31932	BZT03-C200
6515	4822 130 33657	BZV85-C6V8
6516	4822 130 11397	BAS316
6517	4822 130 11528	1PS76SB10
6525	3198 010 10640	GBU4K
6530	4822 130 41487	BYV95C
6534	9322 165 72687	DTV1500MFP
6535	4822 130 11572	STPS8H100F
6536	4822 130 11572	STPS8H100F
6537	4822 130 11397	BAS316
6614	4822 130 11528	1PS76SB10
6615	4822 130 11397	BAS316
6616	4822 130 11397	BAS316
6617	4822 130 11397	BAS316
6618	4822 130 11397	BAS316
6619	4822 130 42488	BYD33D
6620	5322 130 31938	BYV27-200
6621	4822 130 42488	BYD33D
6622	5322 130 32296	BZV85-C10
6623	4822 130 11397	BAS316
6624	4822 130 11397	BAS316
6625	4822 130 11397	BAS316
6626	4822 130 11397	BAS316
6627	4822 130 11397	BAS316
6701	4822 130 11397	BAS316
6745	4822 130 11551	UDZS10B
6950	4822 130 11416	PDZ6.8B
6951	4822 130 11416	PDZ6.8B
6953	4822 130 11416	PDZ6.8B
6954	4822 130 11416	PDZ6.8B
6955	4822 130 11416	PDZ6.8B
6956	4822 130 11416	PDZ6.8B
6957	4822 130 11416	PDZ6.8B
6958	4822 130 11416	PDZ6.8B
6959	4822 130 11416	PDZ6.8B
6960	9340 548 61115	PDZ12B
6961	4822 130 11416	PDZ6.8B
6962	4822 130 11416	PDZ6.8B

7100	4822 130 44568	BC557B
7101	4822 130 40981	BC337-25
7102	4822 130 11417	STP3NB60FP
7103	9322 149 04682	TCET1102
7130	5322 130 60159	BC846B
7131	4822 130 11336	STP16NE06FP
7132	5322 130 60159	BC846B
7133	4822 130 60373	BC856B
7140	5322 130 60159	BC846B
7141	4822 130 11336	STP16NE06FP
7408	5322 130 44647	BC368
7409	5322 130 60159	BC846B
7421	9340 210 30127	BU2520DX
7440	4822 209 70672	LM358N SEL.
7441	4822 130 60373	BC856B
7442	4822 130 60373	BC856B
7443	5322 130 60159	BC846B
7445	5322 130 60159	BC846B
7450	5322 209 61472	LM393M
7455	4822 209 73852	PMBT2369
7480	4822 130 11417	STP3NB60FP
7482	4822 130 11418	TCDT1102G
7486	5322 130 60159	BC846B
7487	5322 130 60159	BC846B
7501	5322 130 60159	BC846B
7502	4822 130 40959	BC547B
7504	9322 126 65687	STP5NB60FP
7506	4822 209 14933	TL431IZ
7507	9322 149 04682	TCET1102
7528	4822 130 40981	BC337-25
7529	4822 130 44461	BC546B
7530	5322 130 60159	BC846B
7611	5322 130 60159	BC846B
7612	5322 130 60159	BC846B
7613	4822 209 81397	TL431CLPST
7614	5322 130 60159	BC846B
7620	4822 209 90009	TDA8177
7641	5322 130 60159	BC846B
7652	5322 130 60159	BC846B
7653	5322 130 60159	BC846B
7654	4822 130 60373	BC856B
7680	4822 209 60956	TDA7052/N2
7681	5322 130 60159	BC846B
7682	5322 130 44647	BC368
7700	9322 163 86682	TDA7490L
7701	5322 130 60159	BC846B
7702	9322 163 86682	TDA7490L
7703	5322 130 60159	BC846B
7704	5322 130 60159	BC846B
7705	5322 130 60159	BC846B
7706	4822 130 60373	BC856B
7707	5322 130 60159	BC846B
7902	5322 130 60159	BC846B

7908	5322 130 60159	BC846B
7910	9322 166 03682	LD1085V36
7911	4822 209 72042	L78L05ACZ
8000	3104 311 03272	EHT cable
8146	3104 301 08562	Cable 5p/340mm/5p
8193	4822 320 20216	Focus cable 440mm black
8194	4822 320 20189	Focus cable 440mm red
8417	3104 311 04561	Cable 3p/400mm/3p
8424	3104 311 02991	Cable 7p/560mm/7p
8498	3104 311 04531	Cable 2p/400mm/2p
8625	3104 311 03101	Cable 3p/560mm/3p
8737	3104 311 01731	Cable 3p/400mm/3p
8936	3104 311 04871	Cable 11p/560mm/11p
8937	3104 301 09841	Cable 10p/340mm/10p
8940	3104 311 04761	Cable 11p/400mm/11p
8955	3104 311 00512	Cable 3p/340mm/3p
9xxx	4822 051 20008	Jumper 0805
9105	4822 051 20008	Jumper 0805
9128	4822 051 30008	Jumper 0603
9200	4822 051 20008	Jumper 0805
9203	4822 051 30008	Jumper 0603
9204	4822 051 20008	Jumper 0805
9207	4822 051 30008	Jumper 0603
9208	4822 051 20008	Jumper 0805
9209	4822 051 20008	Jumper 0805
9210	4822 051 30008	Jumper 0603
9211	4822 051 30008	Jumper 0603
9212	4822 051 20008	Jumper 0805
9214	4822 051 20008	Jumper 0805
9215	4822 051 20008	Jumper 0805
9216	4822 051 20008	Jumper 0805
9217	4822 051 20008	Jumper 0805
9218	4822 051 20008	Jumper 0805
9219	4822 051 20008	Jumper 0805
9221	4822 051 20008	Jumper 0805
9222	4822 051 20008	Jumper 0805
9251	4822 051 30008	Jumper 0603
9261	4822 051 20008	Jumper 0805
9262	4822 051 20008	Jumper 0805
9263	4822 051 20008	Jumper 0805
9264	4822 051 20008	Jumper 0805
9418	4822 051 20008	Jumper 0805
9421	4822 051 20008	Jumper 0805
9422	4822 051 30008	Jumper 0603
9424	4822 051 30008	Jumper 0603
9427	4822 051 30008	Jumper 0603
9428	4822 051 30008	Jumper 0603
9429	4822 051 30008	Jumper 0603
9430	4822 051 30008	Jumper 0603
9431	4822 051 30008	Jumper 0603
9432	4822 051 30008	Jumper 0603
9433	4822 051 30008	Jumper 0603
9434	4822 051 30008	Jumper 0603
9435	4822 051 30008	Jumper 0603
9436	4822 051 30008	Jumper 0603
9437	4822 051 30008	Jumper 0603
9438	4822 051 30008	Jumper 0603
9440	4822 051 30008	Jumper 0603
9441	4822 051 30008	Jumper 0603
9443	4822 051 30008	Jumper 0603
9481	4822 051 30008	Jumper 0603
9483	4822 051 30008	Jumper 0603
9499	4822 051 30008	Jumper 0603
9505	4822 051 20008	Jumper 0805
9560	4822 051 30008	Jumper 0603
9561	4822 051 20008	Jumper 0805
9621	4822 051 30008	Jumper 0603
9624	4822 051 30008	Jumper 0603
9676	4822 051 30008	Jumper 0603
9677	4822 051 20008	Jumper 0805
9702	4822 051 30008	Jumper 0603
9705	4822 051 20008	Jumper 0805
9706	4822 051 30471	470R00 5% 0,062W
9707	4822 051 30008	Jumper 0603
9709	4822 051 20008	Jumper 0805
9711	4822 051 30008	Jumper 0603
9713	4822 051 30008	Jumper 0603
9714	4822 051 20008	Jumper 0805
9716	4822 051 20008	Jumper 0805
9717	4822 051 30008	Jumper 0603
9908	4822 051 30008	Jumper 0603
9927	4822 051 20008	Jumper 0805
9928	4822 051 20008	Jumper 0805
9960	4822 051 30008	Jumper 0603
9962	4822 051 30008	Jumper 0603
9966	4822 051 30008	Jumper 0603
9979	4822 051 20008	Jumper 0805
9981	4822 051 20008	Jumper 0805
9984	4822 126 13879	220nF +80-20% 16V
9985	4822 051 30008	Jumper 0603
9986	4822 051 20008	Jumper 0805
9987	4822 051 20008	Jumper 0805
9988	4822 051 20008	Jumper 0805
9989	4822 051 20008	Jumper 0805
9990	4822 051 20008	Jumper 0805
9991	4822 051 20008	Jumper 0805
9992	4822 051 20008	Jumper 0805
9993	4822 051 20008	Jumper 0805
9994	4822 051 20008	Jumper 0805
9995	4822 051 20008	Jumper 0805
9997	4822 051 20008	Jumper 0805

Small signal board [B]

Various

1001	2422 543 89022	Crystal 6MHz CX-5F
1301	2422 540 98456	Resonator 12MHz CSTCV
1305	2422 543 01184	Crystal 4.433MHz HC-49/U
1308	2422 543 01183	Crystal 3.579MHz HC-49/U
1402	2422 025 16966	Connector 5p m
1403	2422 086 11031	Fuse 500mA 63V
1407	2422 549 44324	Filter 5.5/5.74MHz TPWCC
1408	2422 549 44372	SAW filter OFWK3953L
1409	2422 549 44369	SAW filter OFWK9656L
1651	2422 543 89019	Crystal 18.432MHz CX-5F
1680	2422 025 16961	Connector 6p m
1702	2422 540 98456	Resonator 12MHz CSTCV

⊣⊢

2001	2222 867 15339	33pF 5% 50V 0603
2002	4822 126 11669	27pF
2003	4822 126 13879	220nF 20% 16V
2004	4822 126 13879	220nF 20% 16V
2005	2238 586 59812	100nF 50V
2006	2238 586 59812	100nF 50V
2007	2238 586 59812	100nF 50V
2008	2238 586 59812	100nF 50V
2010	4822 126 11785	47pF 5% 50V 0603
2011	4822 126 11785	47pF 5% 50V 0603
2012	4822 126 11785	47pF 5% 50V 0603
2013	4822 124 12095	100µF 20% 16V
2016	4822 124 12095	100µF 20% 16V
2017	2238 586 59812	100nF 50V
2019	2238 586 59812	100nF 50V
2020	4822 126 13883	220pF 5% 50V
2022	2238 586 59812	100nF 50V
2023	2238 586 59812	100nF 50V
2024	2238 586 59812	100nF 50V
2025	2238 586 59812	100nF 50V
2026	2238 586 59812	100nF 50V
2027	2238 586 59812	100nF 50V
2028	2238 586 59812	100nF 50V
2029	2238 586 59812	100nF 50V
2031	2238 586 59812	100nF 50V
2033	4822 126 14226	82pF 5% 50V 0603
2034	4822 126 14226	82pF 5% 50V 0603
2035	4822 126 14226	82pF 5% 50V 0603
2036	4822 126 14226	82pF 5% 50V 0603
2037	4822 126 14226	82pF 5% 50V 0603
2038	2238 586 59812	100nF 50V
2039	2238 586 59812	100nF 50V
2040	2238 586 59812	100nF 50V
2301	2238 586 59812	100nF 50V
2302	2238 586 59812	100nF 50V
2303	2020 552 96448	1µF 10% 16V
2304	4822 122 33741	10pF 10% 50V
2305	2238 586 59812	100nF 50V
2306	4822 126 13881	470pF 5% 50V
2307	2238 586 59812	100nF 50V
2308	4822 122 33741	10pF 10% 50V
2313	4822 121 70159	0.1µF 16V
2314	4822 124 12095	100µF 20% 16V
2315	2238 586 59812	100nF 50V
2316	2238 586 59812	100nF 50V
2317	2020 552 96448	1µF 10% 16V
2318	4822 126 14494	22nF 10% 25V 0603
2319	4822 126 14247	1.5nF 50V 0603
2320	4822 122 33741	10pF 10% 50V
2321	2238 586 59812	100nF 50V
2322	2238 586 59812	100nF 50V
2323	2238 586 59812	100nF 50V
2324	5322 126 11583	10nF 10% 50V 0603
2325	2238 586 59812	100nF 50V
2326	5322 126 11583	10nF 10% 50V 0603
2328	4822 122 33761	22pF 5% 50V
2329	2238 586 59812	100nF 50V
2330	2238 586 59812	100nF 50V
2331	2238 586 59812	100nF 50V
2332	2238 586 59812	100nF 50V
2333	5322 126 14103	2.2µF 20% 10V
2334	5322 126 14103	2.2µF 20% 10V
2336	5322 126 14103	2.2µF 20% 10V
2340	4822 124 12095	100µF 20% 16V
2343	2238 586 59812	100nF 50V
2350	2238 586 59812	100nF 50V
2351	2238 586 59812	100nF 50V
2352	2238 586 59812	100nF 50V
2353	2238 586 59812	100nF 50V
2354	2238 586 59812	100nF 50V
2356	2238 586 59812	100nF 50V
2357	2238 586 59812	100nF 50V
2358	5322 126 11579	3.3nF 10% 63V
2359	4822 122 33752	15pF 5% 50V
2360	3198 016 31280	1.2pF 50V 0603
2361	3198 016 31280	1.2pF 50V 0603
2362	4822 126 11663	12pF
2363	4822 126 13881	470pF 5% 50V
2365	2238 586 59812	100nF 50V
2366	2238 586 59812	100nF 50V
2367	2238 586 59812	100nF 50V
2368	2238 586 59812	100nF 50V
2369	2238 586 59812	100nF 50V
2370	2238 586 59812	100nF 50V
2371	4822 126 13193	4.7nF 10% 63V
2372	4822 126 14043	1µF 20% 16V
2373	2238 586 59812	100nF 50V
2374	5322 126 14103	2.2µF 20% 10V
2375	4822 126 14494	22nF 10% 25V 0603
2376	2238 586 59812	100nF 50V
2377	4822 124 12095	100µF 20% 16V
2378	2238 586 59812	100nF 50V
2384	2238 586 59812	100nF 50V
2385	2238 586 59812	100nF 50V
2386	4822 126 13883	220pF 5% 50V
2390	2238 586 59812	100nF 50V
2391	2238 586 59812	100nF 50V
2392	4822 126 13193	4.7nF 10% 63V
2394	5322 126 14103	2.2µF 20% 10V
2398	2238 586 59812	100nF 50V
2404	2020 552 96448	1µF 10% 16V
2405	4822 126 13193	4.7nF 10% 63V
2406	4822 126 13883	220pF 5% 50V
2407	4822 126 13956	68pF 5% 63V 0603
2408	3198 016 32780	2.7pF 50V 0603
2409	5322 126 14103	2.2µF 20% 10V
2411	2238 586 59812	100nF 50V
2412	4822 126 13193	4.7nF 10% 63V
2417	3198 017 44740	470nF 10V
2418	3198 016 35680	5.6pF 50V 0603
2420	4822 122 33753	150pF 5% 50V
2422	2238 586 59812	100nF 50V
2424	2238 586 59812	100nF 50V
2425	4822 124 12095	100µF 20% 16V
2429	2238 586 59812	100nF 50V
2431	2238 586 59812	100nF 50V
2501	4822 126 11785	47pF 5% 50V 0603
2502	4822 126 14107	330nF +80-20% 25V
2503	4822 126 14107	330nF +80-20% 25V
2504	4822 126 14107	330nF +80-20% 25V
2505	4822 126 14107	330nF +80-20% 25V
2506	4822 126 14107	330nF +80-20% 25V
2507	4822 126 14107	330nF +80-20% 25V
2508	4822 124 12095	100µF 20% 16V
2509	4822 124 23002	10µF 16V
2510	2020 552 96448	1µF 10% 16V
2511	2020 552 96448	1µF 10% 16V
2512	4822 126 13879	220nF 20% 16V
2513	4822 124 23002	10µF 16V
2515	2020 552 94427	100pF 5% 50V
2520	2238 586 59812	100nF 50V
2521	2238 586 59812	100nF 50V
2522	4822 126 13881	470pF 5% 50V
2523	3198 016 31020	1nF 25V
2524	2238 586 59812	100nF 50V
2525	4822 126 13881	470pF 5% 50V
2526	3198 016 31020	1nF 25V
2528	5322 126 14103	2.2µF 20% 10V
2529	4822 126 14472	1µF 10% 10V
2530	4822 126 14472	1µF 10% 10V
2531	2020 552 94427	100pF 5% 50V
2532	2020 552 94427	100pF 5% 50V
2546	4822 124 23002	10µF 16V
2547	4822 124 23002	10µF 16V
2548	4822 124 23002	10µF 16V
2549	4822 124 23002	10µF 16V
2550	4822 126 14241	330pF 50V 0603
2551	5322 126 11579	3.3nF 10% 63V
2552	4822 126 13881	470pF 5% 50V
2553	4822 126 13881	470pF 5% 50V
2554	4822 126 13881	470pF 5% 50V
2555	4822 126 13881	470pF 5% 50V
2562	3198 016 31020	1nF 25V
2563	3198 016 31020	1nF 25V
2564	3198 016 31020	1nF 25V
2565	3198 016 31020	1nF 25V
2566	3198 016 31020	1nF 25V
2567	3198 016 31020	1nF 25V

2568	3198 016 31020	1nF 25V
2569	3198 016 31020	1nF 25V
2570	3198 016 31020	1nF 25V
2571	2020 552 94427	100pF 5% 50V
2572	3198 016 31020	1nF 25V
2573	3198 016 31020	1nF 25V
2574	3198 016 31020	1nF 25V
2575	3198 016 31020	1nF 25V
2576	3198 016 31020	1nF 25V
2577	3198 016 31020	1nF 25V
2578	3198 016 31020	1nF 25V
2579	3198 016 31020	1nF 25V
2580	3198 016 31020	1nF 25V
2581	3198 016 31020	1nF 25V
2582	3198 016 31020	1nF 25V
2583	3198 016 31020	1nF 25V
2592	5322 126 11578	1nF 10% 50V 0603
2593	3198 016 31020	1nF 25V
2594	3198 016 31020	1nF 25V
2595	3198 016 31020	1nF 25V
2600	2020 552 96448	1µF 10% 16V
2601	2020 552 96448	1µF 10% 16V
2602	2020 552 96448	1µF 10% 16V
2603	2020 552 96448	1µF 10% 16V
2604	2020 552 96448	1µF 10% 16V
2609	3198 016 31020	1nF 25V
2610	4822 126 14238	2.2nF 50V 0603
2611	3198 016 31020	1nF 25V
2629	4822 126 14107	330nF +80-20% 25V
2630	5322 126 14103	2.2µF 20% 10V
2632	4822 126 14107	330nF +80-20% 25V
2634	3198 016 31020	1nF 25V
2637	4822 126 14107	330nF +80-20% 25V
2640	4822 126 13879	220nF 20% 16V
2643	4822 126 14107	330nF +80-20% 25V
2644	3198 016 31020	1nF 25V
2645	4822 126 14107	330nF +80-20% 25V
2646	5322 126 14103	2.2µF 20% 10V
2649	5322 126 14103	2.2µF 20% 10V
2651	2238 586 59812	100nF 50V
2652	4822 126 11785	47pF 5% 50V 0603
2653	4822 126 14107	330nF +80-20% 25V
2654	4822 126 13881	470pF 5% 50V
2659	4822 126 13881	470pF 5% 50V
2660	4822 126 13881	470pF 5% 50V
2661	4822 126 14107	330nF +80-20% 25V
2662	4822 126 14107	330nF +80-20% 25V
2663	4822 126 13881	470pF 5% 50V
2664	4822 126 13881	470pF 5% 50V
2665	4822 124 12095	100µF 20% 16V
2666	4822 124 12095	100µF 20% 16V
2667	3198 016 33380	3.3pF 50V 0603
2668	3198 016 33380	3.3pF 50V 0603
2670	2238 586 59812	100nF 50V
2673	3198 016 31020	1nF 25V
2674	3198 016 31020	1nF 25V
2677	4822 124 23002	10µF 16V
2678	4822 124 23002	10µF 16V
2679	2238 586 59812	100nF 50V
2680	4822 124 23002	10µF 16V
2681	2238 586 59812	100nF 50V
2682	4822 124 23002	10µF 16V
2686	3198 016 31020	1nF 25V
2687	3198 016 31020	1nF 25V
2690	2238 586 59812	100nF 50V
2691	2238 586 59812	100nF 50V
2693	4822 126 13883	220pF 5% 50V
2694	3198 016 31020	1nF 25V
2695	4822 124 12095	100µF 20% 16V
2697	2238 586 59812	100nF 50V
2698	5322 126 14103	2.2µF 20% 10V
2699	5322 126 14103	2.2µF 20% 10V
2700	4822 051 30008	Jumper 0603
2703	4822 051 30008	Jumper 0603
2706	4822 051 30008	Jumper 0603
2713	4822 122 33761	22pF 5% 50V
2714	4822 122 33761	22pF 5% 50V
2718	4822 122 33752	15pF 5% 50V
2719	4822 122 33752	15pF 5% 50V
2720	4822 122 33752	15pF 5% 50V
2721	2020 552 94427	100pF 5% 50V
2722	2020 552 94427	100pF 5% 50V
2723	4822 126 14225	56pF 5% 50V 0603
2724	2020 552 94427	100pF 5% 50V
2728	2020 021 91554	10µF 20% 16V
2729	2238 586 59812	100nF 50V
2730	2020 021 91557	100µF 20% 16V
2740	4822 126 14494	22nF 10% 25V 0603
2741	4822 126 14494	22nF 10% 25V 0603
2742	4822 126 14494	22nF 10% 25V 0603
2743	2238 586 59812	100nF 50V
2744	2238 586 59812	100nF 50V
2745	2238 586 59812	100nF 50V
2746	2238 586 59812	100nF 50V
2748	2238 586 59812	100nF 50V
2749	2020 021 91554	10µF 20% 16V
2750	2238 586 59812	100nF 50V
2751	2238 586 59812	100nF 50V
2752	2238 586 59812	100nF 50V
2753	2238 586 59812	100nF 50V
2755	2238 586 59812	100nF 50V
2756	2238 586 59812	100nF 50V
2757	4822 126 14494	22nF 10% 25V 0603
2760	2238 586 59812	100nF 50V
2761	2238 586 59812	100nF 50V
2762	2238 586 59812	100nF 50V
2763	2238 586 59812	100nF 50V
2764	2238 586 59812	100nF 50V
2765	2238 586 59812	100nF 50V
2766	2238 586 59812	100nF 50V
2767	2238 586 59812	100nF 50V
2769	2238 586 59812	100nF 50V
2773	2238 586 59812	100nF 50V
2775	2238 586 59812	100nF 50V
2776	2238 586 59812	100nF 50V
2777	2238 586 59812	100nF 50V
2778	2238 586 59812	100nF 50V
2779	2238 586 59812	100nF 50V
2780	2238 586 59812	100nF 50V
2781	2238 586 59812	100nF 50V
2782	2238 586 59812	100nF 50V
2784	2238 586 59812	100nF 50V
2785	2238 586 59812	100nF 50V
2786	2238 586 59812	100nF 50V
2787	2238 586 59812	100nF 50V
2788	2238 586 59812	100nF 50V
2789	2238 586 59812	100nF 50V
2790	2238 586 59812	100nF 50V
2791	2238 586 59812	100nF 50V
2792	2020 021 91554	10µF 20% 16V
2793	2238 586 59812	100nF 50V
2794	2020 021 91554	10µF 20% 16V
2795	2238 586 59812	100nF 50V
2796	2238 586 59812	100nF 50V
2797	2238 586 59812	100nF 50V
2798	2238 586 59812	100nF 50V
2799	2238 586 59812	100nF 50V
2800	2238 586 59812	100nF 50V
2801	2238 586 59812	100nF 50V
2802	2238 586 59812	100nF 50V
2819	2238 586 59812	100nF 50V
2823	5322 126 11578	1nF 10% 50V 0603
2824	5322 126 11578	1nF 10% 50V 0603
2831	4822 126 13956	68pF 5% 63V 0603
2870	2020 021 91554	10µF 20% 16V
2871	2020 021 91554	10µF 20% 16V
2872	2238 586 59812	100nF 50V
2874	2020 021 91554	10µF 20% 16V
2881	4822 126 11669	27pF
2899	2238 586 59812	100nF 50V
2908	2238 586 59812	100nF 50V
2909	2238 586 59812	100nF 50V
2910	2238 586 59812	100nF 50V
2911	2238 586 59812	100nF 50V
2912	2238 586 59812	100nF 50V

3001	4822 051 30472	4k7 5% 0.062W
3002	4822 051 30472	4k7 5% 0.062W
3003	4822 117 13525	24k 1% 0.62W RC22H 0603
3006	4822 051 30471	470Ω 5% 0.062W
3007	3198 031 14710	4 x 470Ω 5% 1206
3008	4822 117 13526	150Ω 5% RESN 0.63W
3009	4822 117 13501	82Ω 5% 0.62W 0603
3011	4822 051 30471	470Ω 5% 0.062W
3012	3198 031 11010	4 x 100Ω 5% 1206
3013	4822 051 30103	10k 5% 0.062W
3014	4822 051 30682	6k8 5% 0.062W
3015	4822 051 30474	470k 5% 0.062W
3016	4822 051 30152	1k5 5% 0.062W
3017	4822 051 30472	4k7 5% 0.062W
3018	4822 051 30103	10k 5% 0.062W
3019	4822 051 30472	4k7 5% 0.062W
3020	4822 051 30103	10k 5% 0.062W
3021	4822 051 30103	10k 5% 0.062W
3024	4822 051 30273	27k 5% 0.062W
3025	4822 051 30221	220Ω 5% 0.062W
3026	4822 051 30472	4k7 5% 0.062W
3027	4822 117 12925	47k 1% 0.063W 0603
3029	4822 051 30103	10k 5% 0.062W
3031	4822 051 30103	10k 5% 0.062W
3033	4822 051 30103	10k 5% 0.062W
3034	3198 031 11010	4 x 100Ω 5% 1206
3035	3198 031 11010	4 x 100Ω 5% 1206
3039	4822 051 30181	180Ω 5% 0.062W
3040	4822 051 30472	4k7 5% 0.062W
3041	4822 051 30472	4k7 5% 0.062W
3042	4822 051 30472	4k7 5% 0.062W
3044	4822 051 30272	2k7 5% 0.062W
3048	3198 031 11010	4 x 100Ω 5% 1206
3049	3198 031 11010	4 x 100Ω 5% 1206
3050	3198 031 11010	4 x 100Ω 5% 1206
3051	3198 031 11010	4 x 100Ω 5% 1206
3052	3198 031 11010	4 x 100Ω 5% 1206
3053	4822 051 30101	100Ω 5% 0.062W
3054	3198 031 11010	4 x 100Ω 5% 1206
3055	3198 031 11010	4 x 100Ω 5% 1206
3056	3198 031 11010	4 x 100Ω 5% 1206
3057	3198 031 11010	4 x 100Ω 5% 1206
3059	2322 704 66201	620e 1% 0603
3061	4822 051 30103	10k 5% 0.062W
3062	4822 051 30103	10k 5% 0.062W
3064	3198 031 11010	4 x 100Ω 5% 1206
3065	4822 051 30472	4k7 5% 0.062W
3066	4822 117 12925	47k 1% 0.063W 0603
3067	4822 051 30474	470k 5% 0.062W
3068	4822 051 30272	2k7 5% 0.062W
3069	4822 051 30272	2k7 5% 0.062W
3073	3198 031 14710	4 x 470Ω 5% 1206
3074	3198 031 14710	4 x 470Ω 5% 1206
3076	3198 031 14710	4 x 470Ω 5% 1206
3078	3198 031 14710	4 x 470Ω 5% 1206
3079	4822 051 30472	4k7 5% 0.062W
3080	4822 051 30472	4k7 5% 0.062W
3081	4822 051 30008	Jumper 0603
3088	4822 051 30472	4k7 5% 0.062W
3090	3198 031 14710	4 x 470Ω 5% 1206
3093	4822 051 30103	10k 5% 0.062W
3094	4822 117 12925	47k 1% 0.063W 0603
3095	4822 117 12925	47k 1% 0.063W 0603
3096	4822 117 12925	47k 1% 0.063W 0603
3097	4822 051 30008	Jumper 0603
3099	3198 031 14710	4 x 470Ω 5% 1206
3301	4822 117 13632	100k 1% 0603 0.62W
3302	4822 051 30102	1k 5% 0.062W
3303	4822 117 13632	100k 1% 0603 0.62W
3304	2322 750 63908	3.9Ω 5% 1208
3305	4822 051 30223	22k 5% 0.062W
3306	4822 051 30221	220Ω 5% 0.062W
3307	4822 051 30183	18k 5% 0.062W
3308	4822 051 20154	150k 5% 0.1W
3310	4822 051 30563	56k 5% 0.062W
3311	4822 117 13632	100k 1% 0603 0.62W
3312	4822 117 13632	100k 1% 0603 0.62W
3313	4822 117 13632	100k 1% 0603 0.62W
3314	4822 051 30103	10k 5% 0.062W
3315	4822 051 30102	1k 5% 0.062W
3316	4822 117 10834	47k 1% 0.1W
3317	4822 051 30221	220Ω 5% 0.062W
3318	4822 051 30102	1k 5% 0.062W
3319	4822 051 30102	1k 5% 0.062W
3320	4822 051 30101	100Ω 5% 0.062W
3321	4822 051 30101	100Ω 5% 0.062W
3322	4822 051 10102	1k 2% 0.25W
3324	4822 051 30472	4k7 5% 0.062W
3325	4822 117 13632	100k 1% 0603 0.62W
3327	4822 117 13632	100k 1% 0603 0.62W
3328	4822 051 30393	39k 5% 0.062W
3329	2322 750 63908	3.9Ω 5% 1208
3331	4822 051 30102	1k 5% 0.062W
3333	4822 051 30102	1k 5% 0.062W
3334	4822 051 30102	1k 5% 0.062W
3336	4822 051 30102	1k 5% 0.062W
3339	4822 051 30008	Jumper 0603
3340	4822 051 30101	100Ω 5% 0.062W
3341	4822 051 30101	100Ω 5% 0.062W
3342	4822 051 30101	100Ω 5% 0.062W
3343	4822 051 20683	68k 5% 0.1W
3344	4822 051 30222	2k2 5% 0.062W
3345	4822 051 30103	10k 5% 0.062W
3346	4822 051 30333	33k 5% 0.062W
3347	4822 051 30223	22k 5% 0.062W
3348	4822 051 30222	2k2 5% 0.062W
3349	4822 051 30472	4k7 5% 0.062W
3350	4822 051 30102	1k 5% 0.062W
3351	4822 051 30103	10k 5% 0.062W
3352	4822 117 13632	100k 1% 0603 0.62W
3353	4822 051 30103	10k 5% 0.062W
3354	4822 051 30222	2k2 5% 0.062W
3358	4822 117 12903	1k8 1% 0.063W 0603
3359	4822 117 13632	100k 1% 0603 0.62W
3362	4822 051 30684	680k 5% 0.062W
3363	4822 051 30102	1k 5% 0.062W
3364	4822 051 30103	10k 5% 0.062W
3365	4822 051 30103	10k 5% 0.062W
3366	4822 051 30221	220Ω 5% 0.062W
3367	4822 051 30221	220Ω 5% 0.062W
3368	3198 021 32250	2.2MΩ 5% 0603
3370	4822 051 30101	100Ω 5% 0.062W
3371	4822 051 30479	47Ω 5% 0.062W

3372	4822 051 30471	470Ω 5% 0.062W
3373	4822 051 30008	Jumper 0603
3374	4822 051 30008	Jumper 0603
3375	4822 051 30008	Jumper 0603
3376	4822 051 30101	100Ω 5% 0.062W
3377	4822 051 30101	100Ω 5% 0.062W
3378	4822 051 30153	15k 5% 0.062W
3379	4822 051 30008	Jumper 0603
3380	4822 051 30101	100Ω 5% 0.062W
3382	4822 051 30561	560Ω 5% 0.062W
3385	4822 051 30471	470Ω 5% 0.062W
3386	4822 051 30223	22k 5% 0.062W
3390	4822 051 30221	220Ω 5% 0.062W
3391	4822 051 30472	4k7 5% 0.062W
3393	4822 117 13632	100k 1% 0603 0.62W
3394	4822 051 30472	4k7 5% 0.062W
3400	4822 117 11152	4Ω7 5%
3402	2322 750 63908	3.9Ω 5% 1208
3403	4822 051 30101	100Ω 5% 0.062W
3404	4822 051 30561	560Ω 5% 0.062W
3405	4822 051 30102	1k 5% 0.062W
3406	2322 702 60279	27e 5% 0603
3408	4822 051 30101	100Ω 5% 0.062W
3411	4822 051 30272	2k7 5% 0.062W
3412	4822 051 30102	1k 5% 0.062W
3414	4822 051 30472	4k7 5% 0.062W
3415	4822 051 30222	2k2 5% 0.062W
3418	4822 051 30391	390Ω 5% 0.062W
3419	4822 051 30339	33Ω 5% 0.062W
3435	4822 051 30472	4k7 5% 0.062W
3436	4822 051 30221	220Ω 5% 0.062W
3437	4822 051 30471	470Ω 5% 0.062W
3439	4822 051 30471	470Ω 5% 0.062W
3441	4822 051 30562	5k6 5% 0.063W 0603 RC21 RST SM
3445	4822 051 30271	270Ω 5% 0.062W
3446	4822 051 30101	100Ω 5% 0.062W
3453	4822 051 30103	10k 5% 0.062W
3454	4822 051 30101	100Ω 5% 0.062W
3455	4822 051 30101	100Ω 5% 0.062W
3459	4822 051 30222	2k2 5% 0.062W
3463	4822 051 30472	4k7 5% 0.062W
3465	4822 051 30333	33k 5% 0.062W
3468	4822 117 13632	100k 1% 0603 0.62W
3472	4822 051 30223	22k 5% 0.062W
3500	4822 051 30153	15k 5% 0.062W
3501	4822 157 11716	Bead 30Ω@100MHz
3504	4822 051 30123	12k 5% 0.062W
3505	4822 051 30153	15k 5% 0.062W
3506	4822 157 11716	Bead 30Ω@100MHz
3509	4822 051 30123	12k 5% 0.062W
3510	4822 117 12925	47k 1% 0.063W 0603
3511	4822 117 13632	100k 1% 0603 0.62W
3512	4822 051 30154	150k 5% 0.062W
3513	4822 117 12889	270k 1% 0.063W 0603
3514	4822 117 12925	47k 1% 0.063W 0603
3515	4822 117 13632	100k 1% 0603 0.62W
3516	4822 051 30392	3k9 5% 0.063W 0603
3519	4822 051 30103	10k 5% 0.062W
3520	4822 117 12925	47k 1% 0.063W 0603
3521	4822 117 13632	100k 1% 0603 0.62W
3522	4822 117 13632	100k 1% 0603 0.62W
3523	4822 117 13632	100k 1% 0603 0.62W
3524	4822 117 13632	100k 1% 0603 0.62W
3525	4822 051 30684	680k 5% 0.062W
3526	4822 051 30105	1M 5% 0.062W
3527	4822 051 30221	220Ω 5% 0.062W
3528	4822 051 30103	10k 5% 0.062W
3529	4822 051 30103	10k 5% 0.062W
3530	4822 051 30103	10k 5% 0.062W
3531	4822 117 12902	8k2 1% 0.063W 0603
3532	4822 051 30102	1k 5% 0.062W
3533	4822 051 30103	10k 5% 0.062W
3540	4822 051 30103	10k 5% 0.062W
3544	4822 117 12925	47k 1% 0.063W 0603
3545	4822 117 11817	1k2 1% 1/16W
3546	4822 051 30102	1k 5% 0.062W
3547	4822 117 12925	47k 1% 0.063W 0603
3551	4822 051 30102	1k 5% 0.062W
3552	4822 051 30103	10k 5% 0.062W
3553	4822 051 30223	22k 5% 0.062W
3554	4822 051 30223	22k 5% 0.062W
3555	4822 051 30223	22k 5% 0.062W
3556	4822 051 30101	100Ω 5% 0.062W
3557	4822 051 30101	100Ω 5% 0.062W
3558	4822 051 30101	100Ω 5% 0.062W
3559	4822 051 30101	100Ω 5% 0.062W
3560	4822 051 30101	100Ω 5% 0.062W
3561	4822 051 30101	100Ω 5% 0.062W
3562	4822 051 30101	100Ω 5% 0.062W
3563	4822 051 30101	100Ω 5% 0.062W
3564	4822 051 30101	100Ω 5% 0.062W
3567	4822 051 30101	100Ω 5% 0.062W
3568	4822 051 30101	100Ω 5% 0.062W
3569	4822 051 30101	100Ω 5% 0.062W
3570	4822 051 30101	100Ω 5% 0.062W
3571	4822 051 30101	100Ω 5% 0.062W
3572	4822 051 30101	100Ω 5% 0.062W
3573	4822 051 30101	100Ω 5% 0.062W
3574	4822 051 30101	100Ω 5% 0.062W
3575	4822 051 30101	100Ω 5% 0.062W
3576	4822 051 30272	2k7 5% 0.062W
3577	4822 051 30101	100Ω 5% 0.062W
3578	4822 051 30103	10k 5% 0.062W
3579	4822 051 30103	10k 5% 0.062W
3601	4822 051 30223	22k 5% 0.062W
3602	4822 051 30124	120k 5% 0.062W
3603	4822 117 12891	220k 1% ERJ3Ω
3604	4822 051 30124	120k 5% 0.062W
3605	4822 117 12891	220k 1% ERJ3Ω
3606	4822 051 30124	120k 5% 0.062W
3607	4822 117 12891	220k 1% ERJ3Ω
3608	4822 051 30124	120k 5% 0.062W
3609	4822 117 12891	220k 1% ERJ3Ω
3612	4822 117 12925	47k 1% 0.063W 0603
3613	4822 117 12925	47k 1% 0.063W 0603
3614	4822 117 12925	47k 1% 0.063W 0603
3615	4822 117 12925	47k 1% 0.063W 0603
3616	4822 051 30272	2k7 5% 0.062W
3624	4822 117 11817	1k2 1% 1/16W
3626	4822 051 30154	150k 5% 0.062W
3627	4822 051 30103	10k 5% 0.062W
3628	4822 051 30223	22k 5% 0.062W
3630	4822 051 30563	56k 5% 0.062W
3634	4822 051 30121	120Ω 5% 0.062W
3636	4822 051 30271	270Ω 5% 0.062W
3637	4822 117 12864	82k 5% 0.6W
3639	4822 051 30102	1k 5% 0.062W
3640	4822 051 30101	100Ω 5% 0.062W
3641	4822 051 30101	100Ω 5% 0.062W
3642	4822 051 30101	100Ω 5% 0.062W
3643	4822 051 30101	100Ω 5% 0.062W
3644	4822 117 11152	4Ω7 5%
3653	4822 051 30008	Jumper 0603
3654	4822 051 30008	Jumper 0603
3655	4822 051 30101	100Ω 5% 0.062W
3656	4822 051 30101	100Ω 5% 0.062W
3657	4822 051 30563	56k 5% 0.062W
3658	4822 051 30154	150k 5% 0.062W
3659	4822 051 30154	150k 5% 0.062W
3663	4822 051 30181	180Ω 5% 0.062W
3664	4822 051 30102	1k 5% 0.062W
3666	4822 051 30154	150k 5% 0.062W
3667	4822 117 12864	82k 5% 0.6W
3668	4822 051 30563	56k 5% 0.062W
3669	4822 051 30271	270Ω 5% 0.062W
3670	4822 051 30102	1k 5% 0.062W
3671	4822 117 11817	1k2 1% 1/16W
3673	4822 051 30103	10k 5% 0.062W
3675	4822 051 30181	180Ω 5% 0.062W
3676	4822 117 13632	100k 1% 0603 0.62W
3677	4822 117 13632	100k 1% 0603 0.62W
3680	4822 117 11817	1k2 1% 1/16W
3681	4822 051 30154	150k 5% 0.062W
3682	4822 051 30102	1k 5% 0.062W
3683	4822 051 30223	22k 5% 0.062W
3684	4822 051 30008	Jumper 0603
3685	4822 051 30008	Jumper 0603
3688	4822 051 30008	Jumper 0603
3689	4822 051 30008	Jumper 0603
3692	4822 051 30008	Jumper 0603
3693	4822 051 30008	Jumper 0603
3698	4822 117 11817	1k2 1% 1/16W
3699	2322 702 60184	180k 5%
3706	4822 051 30391	390Ω 5% 0.062W
3707	4822 051 30391	390Ω 5% 0.062W
3708	4822 051 30391	390Ω 5% 0.062W
3709	4822 051 30101	100Ω 5% 0.062W
3710	4822 051 30101	100Ω 5% 0.062W
3712	4822 117 12925	47k 1% 0.063W 0603
3713	4822 051 30181	180Ω 5% 0.062W
3714	4822 051 30181	180Ω 5% 0.062W
3715	4822 051 30181	180Ω 5% 0.062W
3716	4822 117 13632	100k 1% 0603 0.62W
3717	4822 117 13632	100k 1% 0603 0.62W
3718	4822 117 13632	100k 1% 0603 0.62W
3719	4822 051 30332	3k3 5% 0.062W
3720	4822 051 30103	10k 5% 0.062W
3721	4822 117 12917	1Ω 5% 0.062W CASE0603
3725	4822 051 30332	3k3 5% 0.062W
3726	4822 117 11817	1k2 1% 1/16W
3727	4822 051 30151	150Ω 5% 0.062W
3728	4822 051 30151	150Ω 5% 0.062W
3729	4822 051 30689	68Ω 5% 0.063W 0603 RC21 RST SM
3730	4822 051 30681	680Ω 5% 0.062W
3731	4822 051 30472	4k7 5% 0.062W
3733	4822 051 30472	4k7 5% 0.062W
3734	4822 117 12917	1Ω 5% 0.062W CASE0603
3740	4822 051 30102	1k 5% 0.062W
3747	4822 051 30154	150k 5% 0.062W
3748	4822 117 12891	220k 1% ERJ3Ω
3751	4822 051 30472	4k7 5% 0.062W
3752	4822 117 12917	1Ω 5% 0.062W CASE0603
3753	4822 117 12917	1Ω 5% 0.062W CASE0603
3754	4822 051 30101	100Ω 5% 0.062W
3758	4822 051 30472	4k7 5% 0.062W
3759	4822 051 30221	220Ω 5% 0.062W
3762	4822 051 30101	100Ω 5% 0.062W
3763	4822 117 12139	22Ω 5% 0.062W
3764	4822 051 30109	10Ω 5% 0.062W
3773	4822 117 12925	47k 1% 0.063W 0603
3774	4822 117 12925	47k 1% 0.063W 0603
3781	4822 117 12925	47k 1% 0.063W 0603
3782	4822 117 12925	47k 1% 0.063W 0603
3783	4822 117 12925	47k 1% 0.063W 0603

5301	4822 157 11876	6.8µH 10% 0805
5302	4822 157 11876	6.8µH 10% 0805
5401	3198 018 56880	6.8uH 10% 0603
5403	2422 549 44461	Coil 5CCE
5404	2422 535 95427	Bead 120Ω@100MHz
5405	2422 535 95427	Bead 120Ω@100MHz
5406	4822 157 10586	2.2µH 10% 0805
5408	2422 549 44983	Coil 5CCB
5409	2422 535 95427	Bead 120Ω@100MHz
5411	3198 018 32770	0.27µH 10%
5415	4822 157 11716	Bead 30Ω@100MHz
5416	4822 157 11716	Bead 30Ω@100MHz
5651	2422 549 43769	Bead 30Ω@100MHz
5652	2422 549 43769	Bead 30Ω@100MHz
5653	2422 549 43769	Bead 30Ω@100MHz
5654	4822 157 11716	Bead 30Ω@100MHz
5655	4822 157 11828	22µH 20% 0805
5656	4822 157 11876	6.8µH 10% 0805
5663	2422 549 43769	Bead 30Ω@100MHz
5671	4822 157 11716	Bead 30Ω@100MHz
5672	4822 157 11716	Bead 30Ω@100MHz
5706	4822 157 11716	Bead 30Ω@100MHz
5710	4822 156 21729	Bead 1kΩ@100MHz
5711	4822 156 21729	Bead 1kΩ@100MHz
5712	4822 156 21729	Bead 1kΩ@100MHz
5713	4822 157 11716	Bead 30Ω@100MHz
5714	4822 157 71206	Bead 600Ω@100MHz
5716	4822 156 21729	Bead 1kΩ@100MHz
5717	4822 156 21729	Bead 1kΩ@100MHz
5718	4822 157 11716	Bead 30Ω@100MHz
5719	4822 156 21729	Bead 1kΩ@100MHz
5729	4822 157 11716	Bead 30Ω@100MHz
5731	4822 156 21729	Bead 1kΩ@100MHz
5736	4822 157 11876	6.8µH 10% 0805
5737	4822 156 21729	Bead 1kΩ@100MHz
5744	4822 157 11716	Bead 30Ω@100MHz
5900	4822 157 11716	Bead 30Ω@100MHz
5901	4822 157 11716	Bead 30Ω@100MHz
5902	4822 157 11716	Bead 30Ω@100MHz
5903	4822 157 11716	Bead 30Ω@100MHz
5904	4822 157 11716	Bead 30Ω@100MHz
5910	4822 157 11074	100µH
5911	4822 157 11074	100µH
5912	4822 157 11074	100µH
5913	4822 157 11074	100µH
5914	4822 157 11074	100µH
5915	4822 157 11074	100µH
5917	4822 157 11074	100µH
5918	4822 157 11074	100µH
5919	4822 157 11074	100µH
5920	4822 157 11074	100µH

6001	4822 130 80622	BAT54
6002	4822 130 11397	BAS316
6003	4822 130 80622	BAT54
6004	4822 130 80622	BAT54
6005	4822 130 11422	PLVA2650A
6303	4822 130 11594	BZX284-C47
6304	4822 130 11397	BAS316
6306	3198 020 55680	BZX384-C5V6
6307	4822 130 11528	1PS76SB10
6308	4822 130 11397	BAS316
6309	4822 130 11397	BAS316
6310	4822 130 11416	PDZ6.8B
6311	9340 548 67115	PDZ22B
6312	4822 130 11397	BAS316
6313	9322 149 08685	BZM55-C22
6314	4822 130 11397	BAS316
6317	4822 130 11397	BAS316

6319	4822 130 11397	BAS316
6334	4822 130 11397	BAS316
6403	9340 552 30115	BA591
6652	9322 129 40685	BZM55-C10
6657	9322 102 64685	UDZ2.7B
6658	4822 130 11397	BAS316
6926	4822 130 10837	UDZS8.2B
6956	4822 130 10837	UDZS8.2B
6957	4822 130 10837	UDZS8.2B

7001	9352 684 81557	SAA5801H/015
7002	3198 010 42320	BC857BW
7003	3198 010 42310	BC847BW
7004	3198 010 42310	BC847BW
7005	9322 116 74668	LD1117D33
7007	9322 157 20668	MSM51V18165F-60J
7008	3198 010 42310	BC847BW
7009	3198 010 42310	BC847BW
7010	3198 010 42320	BC857BW
7011	9322 156 81668	M24C32-WMN6TNKSA
7012	9322 156 72668	M29W400BT-90N1
7013	3198 010 42310	BC847BW
7014	3198 010 42320	BC857BW
7015	4822 209 73852	PMBT2369
7016	4822 209 73852	PMBT2369
7301	9352 681 65518	TDA9330N3
7302	4822 209 17311	TDA9178T/N1
7303	3198 010 42320	BC857BW
7304	9340 310 30215	PDTC144ET
7306	3198 010 42310	BC847BW
7307	9352 630 99118	TDA9181T
7310	3198 010 42310	BC847BW
7311	3198 010 42320	BC857BW
7313	4822 209 73852	PMBT2369
7314	3198 010 42310	BC847BW
7315	4822 209 73852	PMBT2369
7318	3198 010 42320	BC857BW
7320	3198 010 42310	BC847BW
7322	3198 010 42310	BC847BW
7323	9352 625 24518	TDA9321H
7402	3198 010 42310	BC847BW
7403	5322 130 60159	BC846B
7404	3198 010 42310	BC847BW
7407	4822 130 60373	BC856B
7410	3198 010 42310	BC847BW
7411	5322 130 60159	BC846B
7651	9322 183 28702	MSP3412G-FH-B3
7652	9351 869 40118	74HC4053PW
7653	9351 869 40118	74HC4053PW
7654	9340 425 20115	BC847BS
7656	9340 425 30115	BC847BPN
7663	9340 425 30115	BC847BPN
7664	9340 425 30115	BC847BPN
7665	9340 425 30115	BC847BPN
7666	9340 425 30115	BC847BPN
7667	3198 010 42310	BC847BW
7668	3198 010 42320	BC857BW
7674	3198 010 42310	BC847BW
7675	9340 425 20115	BC847BS
7677	3198 010 42310	BC847BW
7678	9340 425 20115	BC847BS
7679	9340 425 20115	BC847BS
7680	3198 010 42310	BC847BW
7681	4822 209 31378	NJM4556MB
7682	5322 130 60159	BC846B
7703	4822 209 73852	PMBT2369
7706	9322 142 88668	LF25CDT
7708	5322 130 60159	BC846B
7711	2422 486 80938	Connector 32p f
7712	9351 870 00118	74HC573PW
7713	9352 688 09557	SAA4978H/V204
7714	9965 000 02179	MS81V04160-25TB
7715	4822 209 73852	PMBT2369
7717	9322 183 81668	MSM54V12222B-25JS
7718	9352 695 58557	SAA4993H/V1
7719	9322 183 81668	MSM54V12222B-25JS
8402	3104 311 04711	Cable 5p/180mm/5p
8680	3104 311 04991	Cable 6p/400mm/6p
9xxx	4822 051 30008	Jumper 0603
9707	4822 117 12662	4 x 10Ω 5%
9708	4822 117 12662	4 x 10Ω 5%
9709	4822 117 12662	4 x 10Ω 5%
9710	4822 117 12662	4 x 10Ω 5%

Mains Switch panel [E]

Various

0151	4822 256 91766	LED holder
0170	4822 256 10562	Photo diode holder
0201	2422 025 16268	Connector 2p m
0202	2422 025 16268	Connector 2p m
0241	2422 025 06354	Connector 9p m
1031	2422 128 02972	Mains switch
1040	9322 155 82667	IR receiver TSOP2236

2040	4822 124 41584	100µF 20% 10V
2070	4822 126 13879	220nF 20% 16V
2071	4822 124 40248	10µF 20% 63V

3030	4822 053 21335	3.3M 5% 0.5W
3037	4822 053 21335	3.3M 5% 0.5W
3040	4822 051 30331	330Ω 5% 0.062W
3041	4822 051 30103	10k 5% 0.062W
3042	4822 051 30682	6k8 5% 0.062W
3043	4822 051 30101	100Ω 5% 0.062W
3053	4822 051 30561	560Ω 5% 0.062W
3070	4822 051 30334	330k 5% 0.062W
3071	4822 051 30334	330k 5% 0.062W
3072	4822 051 30102	1k 5% 0.062W
3073	4822 051 30103	10k 5% 0.062W
3074	4822 051 30472	4k7 5% 0.062W
3075	4822 051 30472	4k7 5% 0.062W
3078	4822 051 30102	1k 5% 0.062W
3079	4822 051 30332	3k3 5% 0.062W
3999	4822 051 30222	2k2 5% 0.062W

6051	4822 209 72895	TLUV5320
6070	4822 130 11595	BPW46

7070	5322 209 82941	LM358D
8202	4822 320 12513	Cable 3p/480mm/3p
8946	3104 311 02911	Cable 9p/680mm/9p>
9001	4822 051 20008	Jumper 0805
9004	4822 051 20008	Jumper 0805
9005	4822 051 20008	Jumper 0805
9006	4822 051 20008	Jumper 0805
9007	4822 051 20008	Jumper 0805
9008	4822 051 20008	Jumper 0805
9041	4822 051 30008	Jumper 0603
9042	4822 051 30008	Jumper 0603
9050	4822 051 30008	Jumper 0603
9052	4822 051 30008	Jumper 0603
9053	4822 051 30008	Jumper 0603
9055	4822 051 30008	Jumper 0603

CRT Panel [F]

Various

0032	4822 492 70788	IC spring
1298	2422 500 80063	CRT socket 10p fem
1424	2422 025 11244	Connector 7p m
1434	4822 267 10973	Connector 1p m
1483	4822 267 10735	Connector 3p m
1940	2422 025 12485	Connector 11p m

2300	4822 124 40764	22µF 20% 100V
2301	4822 124 40196	220µF 20% 16V
2302	4822 126 11785	47pF 50V
2304	4822 121 41856	22nF 10% 100V
2306	2238 586 59812	100nF 16V
2307	4822 121 41856	22nF 10% 100V
2309	3198 017 42230	22nF 50V
2313	4822 124 11565	10µF 20% 250V
2315	4822 126 14249	560pF 25V
2316	4822 121 40518	100nF 10% 250V
2318	5322 122 32654	22nF 50V
2319	4822 122 30043	10nF 50V
2320	2238 586 59812	100nF 16V
2324	4822 121 70581	1.5nF 5% 2KV
2325	2238 586 59812	100nF 16V
2330	4822 126 14249	560pF 25V
2409	3198 017 44740	470nF 10V
2410	3198 017 44740	470nF 10V
2411	4822 126 14585	100nF 16V
2412	4822 126 14241	330pF 50V
2420	3198 017 44740	470nF 10V

3300	4822 052 10109	Fuse NFR25 10Ω 5%
3301	4822 053 12103	10kΩ 5% 3W
3302	4822 051 30391	390Ω 5%
3303	4822 051 30103	10kΩ 5%
3304	4822 051 10102	1kΩ 5%
3306	4822 117 13608	4Ω7 5%
3307	4822 051 30109	10Ω 5%
3308	4822 051 30563	56kΩ 5%
3310	4822 051 10102	1kΩ 5%
3311	2120 108 91909	39Ω 5%
3312	4822 051 30222	2.2kΩ 5%
3316	4822 051 30563	56kΩ 5%
3318	4822 051 30109	15Ω 5%
3319	4822 051 30102	1kΩ 5%
3323	4822 050 24708	4Ω7 5% 167mW
3324	4822 051 30221	220Ω 5%
3325	4822 051 30569	56Ω 5%
3329	4822 050 24708	4.7Ω 5% 167mW
3334	4822 050 11002	1kΩ 5% 167mW
3335	4822 051 30271	270Ω 5%
3336	4822 051 30271	270Ω 5%
3337	4822 051 30271	270Ω 5%
3338	3198 013 01020	1kΩ 20% 0.5W
3339	3198 013 01020	1kΩ 20% 0.5W
3340	3198 013 01020	1kΩ 20% 0.5W
3341	4822 052 10151	Fuse NFR25 150Ω 5%
3342	4822 116 83883	470Ω 5% 167mW
3345	4822 116 52191	33Ω 5% 167mW
3347	3198 013 01520	1.5kΩ 20% 0.5W
3349	3198 013 01020	1kΩ 20% 0.5W
3350	4822 116 83883	470Ω 5% 167mW
3351	4822 116 83883	470Ω 5% 167mW
3352	4822 116 83883	470Ω 5% 167mW
3354	4822 051 30222	2kΩ2 5%
3355	4822 117 13608	4Ω7 5%
3356	4822 051 10102	1kΩ 5%
3357	4822 117 13608	4Ω7 5%
3370	4822 117 13016	VDR 1mA/ 50V
3401	4822 116 52175	100Ω 5% 167mW
3403	4822 052 11338	Fuse NFR25H 3Ω3 5%
3404	4822 052 11338	Fuse NFR25H 3Ω3 5%
3405	4822 116 52193	ERDS2T 39Ω 5%
3410	4822 117 13632	100kΩ 5%
3411	4822 117 13632	100kΩ 5%
3412	2322 750 61509	Fuse 15Ω 5%
3413	4822 051 30102	1kΩ 5%
3414	4822 051 30109	10Ω 5%
3416	4822 116 52193	ERDS2T 39Ω 5%
3417	4822 051 30109	10Ω 5%
3418	4822 051 30008	Jumper
3420	4822 051 30008	Jumper
3427	4822 051 30008	Jumper
3999	4822 051 30222	2kΩ2 5%

5300	2422 531 02528	Transformer S13974-02
5400	4822 157 11869	33µH 10%

6300	4822 130 83757	MCL4148
6301	4822 051 20479	47R 5%
6305	9340 553 52115	BAS321
6306	9340 553 52115	BAS321
6307	9340 553 52115	BAS321
6310	4822 130 83757	MCL4148

7300	5322 130 42718	BFS20
7301	5322 130 42718	BFS20
7302	5322 130 62804	BCP53
7303	5322 130 63033	BCP56
7304	4822 130 60383	BF824
7307	9352 561 40112	TDA6108JF/N1
7308	5322 130 42718	BFS20
8486	3104 311 03111	Cable 3p 340mm
9303	4822 157 11411	Bead 83Ω@100MHz
9402	4822 051 20008	Jumper
9403	4822 051 20008	Jumper
9404	4822 051 20008	Jumper
9405	4822 051 30008	Jumper

DC-shift panel [G]

Various

0317	4822 265 20723	Connector 2p m
0318	4822 265 20723	Connector 2p m
1430	2422 086 10581	Fuse 400mA 65V

⊣⊢

2430	4822 122 31177	470pF 10% 500V
2431	4822 122 31177	470pF 10% 500V

⌒

5430	3128 138 38911	DC shift coil

⊣▶

6432	9340 317 00133	BYD33V
6433	9340 317 00133	BYD33V
8317	3104 311 01421	Cable 3p/220mm/3p

I/O 3rd scart [H]

Various

1339	2422 026 04375	Socket cinch single
1339	4822 265 10838	Socket cinch double
1402	4822 267 10596	Connector 5p
1680	4822 265 31067	Connector 6p
1690	2422 025 16809	Connector 8p f
1937	2422 025 12493	Connector 10p m
1992	2422 025 16725	Connector 21p f

⊣⊢

2500	2020 552 95344	680nF 16V
2501	4822 124 41643	100µF 20% 16V
2502	4822 126 14585	100nF 10% 50V
2503	5322 126 10511	1nF 5% 50V
2504	5322 122 32531	100pF 5% 50V
2505	4822 124 41643	100µF 20% 16V
2506	4822 126 14585	100nF 10% 50V
2507	5322 126 10511	1nF 5% 50V
2508	2020 552 95344	680nF 16V
2509	5322 122 32531	100pF 5% 50V
2513	4822 122 33575	220pF 5% 63V
2514	4822 126 14585	100nF 10% 50V
2517	4822 122 33575	220pF 5% 63V
2517	4822 126 13693	56pF 1% 63V

⊣□

3500	4822 117 13574	1Ω5 5% 1206
3501	4822 051 10102	1k 2% 0.25W
3502	4822 051 20008	Jumper 0805
3503	4822 117 10833	10k 1% 0.1W
3505	4822 117 13574	1Ω5 5% 1206
3506	4822 117 10833	10k 1% 0.1W
3507	4822 051 10102	1k 2% 0.25W
3508	4822 051 20008	Jumper 0805
3512	4822 117 11373	100Ω 1% 0805
3513	4822 117 10353	150Ω 1% 0.1W
3514	4822 117 10353	150Ω 1% 0.1W
3515	4822 117 10837	100k 1% 0.1W
3516	4822 117 10837	100k 1% 0.1W
3517	4822 117 10353	150Ω 1% 0.1W
3518	4822 117 10353	150Ω 1% 0.1W
3519	4822 117 10833	10k 1% 0.1W
3520	4822 117 11373	100Ω 1% 0805
3521	4822 117 11373	100Ω 1% 0805
3522	4822 117 10833	10k 1% 0.1W
3523	4822 051 20472	4k7 5% 0.1W
3524	4822 117 10837	100k 1% 0.1W
3526	4822 117 11373	100Ω 1% 0805
3527	4822 051 10102	1k 2% 0.25W
3527	4822 051 20562	5k6 5% 0.1W 0805
3528	4822 051 20332	3k3 5% 0.1W
3528	4822 051 20471	470Ω 5% 0.1W
3533	4822 117 11927	75Ω 1% 0.1W
3538	4822 117 11373	100Ω 1% 0805
3539	4822 117 11927	75Ω 1% 0.1W
3540	4822 117 11373	100Ω 1% 0805
3541	4822 117 11927	75Ω 1% 0.1W
3542	4822 117 11373	100Ω 1% 0805
3543	4822 117 11927	75Ω 1% 0.1W
3544	4822 117 11373	100Ω 1% 0805
3545	4822 117 11927	75Ω 1% 0.1W
3546	4822 051 10102	1k 2% 0.25W
3999	4822 051 10102	1k 2% 0.25W

⊣▶

6500	4822 130 11416	PDZ6.8B
6501	4822 130 11416	PDZ6.8B
6502	4822 130 11416	PDZ6.8B
6503	4822 130 11416	PDZ6.8B
6504	4822 130 11416	PDZ6.8B
6505	4822 130 11416	PDZ6.8B
6506	4822 130 11416	PDZ6.8B
6507	9340 548 61115	PDZ12B
6509	4822 130 11416	PDZ6.8B
6510	4822 130 11416	PDZ6.8B
6511	4822 130 11416	PDZ6.8B
6512	4822 130 11416	PDZ6.8B

7501	5322 209 11578	PCF8574T
7502	5322 130 60159	BC846B
7503	5322 130 60159	BC846B
7505	5322 130 60159	BC846B
7506	4822 130 41246	BC327-25
7507	9340 217 80115	BC847CW
9xxx	4822 051 20008	Jumper 0805

DAF panel [I]

Various

1417	4822 265 20723	Connector 2p m
1418	2422 025 16374	Connector 2p m
1419	4822 265 20723	Connector 2p m

⊣⊢

2800	2222 375 90498	470pF 5% 2kV
2821	2222 479 90166	68nF 5% 400V
2890	2222 375 90276	220pF 5% 2kV

⊣□

3898	4822 116 21211	VDR 420V
3899	4822 116 21211	VDR 420V

⌒

5800	2422 531 02437	Transformer
5801	8228 001 34391	Transformer
8418	3104 311 01951	Cable 3p/560mm/4p

DVD interface [MM]

Various

0044	3139 121 27073	DVD top shield
0045	3139 138 11281	DVD door
0046	3139 121 27151	DVD bottom shield
0046	3139 138 11271	DVD eject knob
0103	3104 303 10761	EMC foam 15mm
0104	3104 303 10771	EMC foam 45mm
0206	2422 025 12481	Connector 5p m
0221	2412 020 00725	Connector 3p m
0224	2422 025 12482	Connector 6p m
0225	2412 020 00724	Connector 2p m
0240	2422 025 12485	Connector 11p m
0254	2422 025 16526	Connector 22p m
0255	2422 025 16525	Connector 16p m
0264	2422 025 16382	Connector 3p m
0265	2422 025 08333	Connector 12p m
0266	2422 025 12485	Connector 11p m
1100	2422 026 04425	Socket cinch single
1110	4822 276 13775	Switch
1111	4330 030 36981	Ferrite core
8224	3104 311 04911	Cable 5p/560mm/6p white
8254	3104 311 04891	Flat cable 22p/400mm/22p
8255	3104 311 04901	Flat cable 16p/340mm/16p
8266	4822 323 10458	Cable 11p/480mm/11p
8267	3104 311 05101	Cable 3p/680mm/3p
8600	3104 311 04511	Cable 12p/340mm/12p

⊣⊢

2100	3198 023 21040	100nF 25V
2101	3198 016 04790	47pF 50V
2102	3198 025 51090	10uF 20% 50V
2103	3198 016 04790	47pF 50V
2104	3198 023 21040	100nF 25V
2120	3198 023 21040	100nF 25V
2121	3198 017 21050	1uF 16V
2122	3198 017 21050	1uF 16V
2130	3198 023 21040	100nF 25V
2131	3198 023 21040	100nF 25V
2132	3198 023 21040	100nF 25V
2133	3198 025 34790	47uF 20% 25V
2134	3198 023 21040	100nF 25V
2135	3198 023 21040	100nF 25V
2138	3198 016 01010	100pF 50V
2139	3198 016 01010	100pF 50V
2140	3198 025 31010	100uF 20% 25V
2143	3198 016 01010	100pF 50V
2144	3198 016 01010	100pF 50V
2145	3198 025 31010	100pF 50V
2150	3198 023 21040	100nF 25V
2152	3198 025 24710	470uF 20% 16V
2159	3198 017 21050	1uF 16V
2160	3198 017 01030	10nF 50V
2161	3198 017 01030	10nF 50V
2165	3198 017 01030	10nF 50V
2166	3198 017 01040	100nF 16V
2167	3198 017 01040	100nF 16V
2168	3198 017 01030	10nF 50V
2169	3198 017 01030	10nF 50V
2200	3198 023 21040	100nF 25V
2201	3198 023 21040	100nF 25V
2211	3198 023 21040	100nF 25V
2216	3198 023 21040	100nF 25V
2220	3198 023 21040	100nF 25V
2263	3198 017 01040	100nF 16V
2264	3198 017 01040	100nF 16V
2265	3198 017 01040	100nF 16V
2266	3198 017 01040	100nF 16V
2300	3198 026 22220	2200uF 20% 16V
2301	3198 026 22220	2200uF 20% 16V
2304	3198 017 24740	470nF 16V
2316	2238 580 15644	39nF 10% 50V
2318	3198 019 21030	10nF 50V
2319	3198 026 31020	1000uF 20%
2321	3198 026 31020	1000uF 20%
2322	3198 026 31020	1000uF 20%
2323	3198 026 31020	1000uF 20%
2331	3198 025 54780	4.7uF 20% 50V
2332	3198 026 31020	1000uF 20%
2333	3198 026 31020	1000uF 20%

⊣□

3100	3198 021 51010	100Ω 5%
3101	3198 021 51010	100Ω 5%
3102	3198 021 56890	68Ω 5%
3123	3198 021 52230	22k 5%
3124	3198 021 52230	22k 5%
3125	3198 021 52230	22k 5%
3126	3198 021 52230	22k 5%
3130	3198 011 02210	220Ω 5%
3131	3198 011 02220	2k2 5%
3132	3198 021 55620	5k6 5%
3136	3198 021 51030	10k 5%
3137	3198 021 51030	10k 5%
3138	3198 021 53330	33k 5%
3139	3198 021 53330	33k 5%
3141	3198 011 01030	10k 5%
3142	3198 011 01030	10k 5%
3143	3198 021 53330	33k 5%
3144	3198 021 53330	33k 5%
3149	3198 021 51530	15k 5%
3150	3198 021 51010	100Ω 5%
3151	3198 021 51010	100Ω 5%
3152	3198 021 51530	15k 5%
3154	3198 021 51530	15k 5%
3157	3198 021 51530	15k 5%
3158	3198 021 51530	15k 5%
3159	3198 021 51540	150k 5%
3160	3198 021 54710	470Ω 5%
3161	3198 021 51830	18k 5%
3162	3198 021 52230	22k 5%
3163	3198 011 01030	10k 5%
3200	3198 021 52710	270Ω 5%
3201	3198 021 51010	100Ω 5%
3202	3198 021 51010	100Ω 5%
3203	3198 021 56820	6k8 5%
3204	3198 021 58210	820Ω 5%
3205	3198 021 54720	4k7 5%

3206	3198 021 56810	680Ω 5%
3207	3198 021 52220	2k2 5%
3208	3198 021 57590	75Ω 5%
3209	3198 021 57590	75Ω 5%
3210	3198 021 52710	270Ω 5%
3211	3198 021 51010	100Ω 5%
3212	3198 021 51010	100Ω 5%
3213	3198 021 56820	6k8 5%
3214	3198 021 58210	820Ω 5%
3215	3198 021 54720	4k7 5%
3216	3198 021 56810	680Ω 5%
3217	3198 021 52220	2k2 5%
3218	3198 021 57590	75Ω 5%
3219	3198 021 57590	75Ω 5%
3267	3198 021 51020	1k 5%
3268	3198 021 51020	1k 5%
3300	3198 021 52230	22k 5%
3301	3198 021 51020	1k 5%
3302	3198 021 51830	18k 5%
3303	3198 021 52230	22k 5%
3313	3198 021 51830	18k 5%
3314	3198 021 52230	22k 5%
3315	3198 011 01830	18k 5%
3316	3198 021 51830	18k 5%
3317	3198 021 52230	22k 5%
3331	3198 011 01830	18k 5%
3332	3198 021 52230	22k 5%
3335	3198 011 01830	18k 5%
3336	3198 011 01020	1k 5%
3337	3198 021 51010	100Ω 5%

5100	2422 549 41663	Tuning coil 7CHA
5161	3198 018 34780	4.7uH 10%
5300	3198 018 73390	33uH 10%
5305	3198 018 13390	33uH 5%
5318	2422 531 98024	SMD transf. C956-01
5319	3198 018 90010	Bead 50R@100mH z
5320	3198 018 90010	Bead 50R@100mH z
5322	3198 018 21090	10uH 10%
5330	3198 018 73390	33uH 10%

6318	9322 128 18682	SB340L-7010
6320	9337 234 00133	BYD33D
6335	3198 020 51290	BZX384-C12

7100	9322 155 28667	Opt. conn. GP1FA550TZ
7120	9333 729 60653	HEF4053BT
7130	9352 616 17118	UDA1328T/N
7131	3198 010 43230	BC817-25
7134	9322 010 11668	MC33078D
7150	9338 516 60118	PCF8574AT
7162	3198 010 42030	BC847B
7200	3198 010 42030	BC847B
7201	3198 010 42150	BC857B
7202	3198 010 42030	BC847B
7210	3198 010 42030	BC847B
7211	3198 010 42150	BC857B
7212	3198 010 42030	BC847B
7220	9333 729 60653	HEF4053BT
7300	9322 160 98685	BSP613P
7303	3198 010 42030	BC847B
7315	3198 010 42030	BC847B
7317	3198 010 42030	BC847B
7318	9322 160 18682	SI-8033S (LF1113)
7332	3198 010 42030	BC847B
7335	9322 163 75685	SI2306DS

Side I/O [O]

Various

0240	2422 025 12485	Connector 11p m
1254	4822 267 31014	Socket headphone
1255	4822 265 11606	Socket cinch 3p f
1256	2422 026 04926	Socket SVHS 10p f

2286	4822 122 33642	150pF 50V
2288	4822 122 33642	150pF 50V
2292	5322 122 32311	470pF 50V
2294	5322 122 32311	470pF 50V
2296	4822 122 31125	4.7nF 50V
2297	4822 122 31125	4.7nF 50V

3285	4822 116 52201	75Ω 167mW
3286	4822 116 52176	10Ω 167mW
3287	4822 116 52201	75Ω 167mW
3288	4822 116 52176	10Ω 167mW
3291	4822 050 11002	1kΩ 167mW
3292	4822 117 10834	47kΩ 5%
3293	4822 050 11002	1kΩ 5% 167mW
3294	4822 117 10834	47kΩ 5%
3295	4822 116 52175	100Ω 5% 167mW
3296	4822 117 10833	10kΩ 5%
3297	4822 117 10833	10kΩ 5%

6291	9340 548 61115	BZX384-C12
6291	9340 548 61115	BZM55-C12
6292	9340 548 61115	BZX384-C12
6292	9340 548 61115	BZM55-C12
6293	9340 548 61115	BZX384-C12
6293	9340 548 61115	BZM55-C12
6294	9340 548 61115	BZX384-C12
6294	9340 548 61115	BZM55-C12
6296	9340 548 61115	BZX384-C12
6296	9340 548 61115	BZM55-C12
6297	9340 548 61115	BZX384-C12
6297	9340 548 61115	BZM55-C12

Top Control [P]

Various

0158	3104 311 01401	Cable 3p 1500mm
0215	4822 267 10748	Connector 3p m
1091	4822 276 13775	Switch
1092	4822 276 13775	Switch
1093	4822 276 13775	Switch
1094	4822 276 13775	Switch
1095	4822 276 13775	Switch

2010	4822 122 33177	10nF 50V

3088	4822 117 11951	2kΩ 1%
3089	4822 117 11534	1.1kΩ 1%
3090	4822 117 10845	620Ω 1%
3096	4822 117 13528	200Ω 1%
3095	4822 051 30391	390Ω 5%
3095	4822 051 30391	390Ω 5%
3091	4822 051 20008	Jumper 0805
3092	4822 051 20008	Jumper 0805
3093	4822 051 20008	Jumper 0805
3094	4822 051 20008	Jumper 0805
3091	4822 051 30008	Jumper 0603
3092	4822 051 30008	Jumper 0603
3093	4822 051 30008	Jumper 0603
3094	4822 051 30008	Jumper 0603

Amplifier Surround Speakers [W1]

Various

0011	4303 308 76220	LED Holder
0012	9390 288 60112	Spring clip
8000	3139 110 30840	Cable 4P 180mm
8001	1922 281 37997	Cable 5P 140mm
8002	3139 110 32240	Cable 5P 180mm
8003	3139 110 31950	Cable 3P 120mm
8004	4303 301 00380	Cable 2P
8005	3139 110 30730	Cable 3P 280mm
8006	1922 361 37994	Cable 2P 180mm black
1401	4822 265 30735	5P
1402	4822 267 10735	3P
1403	2422 025 04851	3P
1404	4822 267 10565	4P
1405	2422 025 10647	1P
1406	2422 025 04849	2P
1407	2422 025 04851	3P
1408	4822 071 51602	Fuse 1.6A
1409	4822 071 51602	Fuse 1.6A

2401	4822 124 12056	1000µF 20% 35V
2402	2020 046 30221	220µF 20% 50V
2403	2020 046 30221	220µF 20% 50V
2404	4822 124 11583	2200µF 20% 35V
2405	4822 124 11583	2200µF 20% 35V
2408	2020 012 91882	22µF 50V
2409	4822 122 31947	100nF 20% 63V
2410	4822 122 31947	100nF 20% 63V
2411	4822 122 31947	100nF 20% 63V
2412	4822 122 31947	100nF 20% 63V
2413	4822 122 31947	100nF 20% 63V
2414	4822 122 31947	100nF 20% 63V
2415	4822 126 13473	220nF 80-20% 50V
2416	4822 126 13473	220nF 80-20% 50V
2420	5322 122 32268	470pF 10% 50V
2421	4822 126 13473	220nF 80-20% 50V
2422	4822 126 13473	220nF 80-20% 50V
2426	5322 122 32268	470pF 10% 50V
2427	4822 126 13473	220nF 80-20% 50V
2428	4822 126 13473	220nF 80-20% 50V
2429	5322 122 32531	100pF 5% 50V
2430	5322 122 32531	100pF 5% 50V
2431	4822 126 13473	220nF 80-20% 50V
2432	4822 126 13473	220nF 80-20% 50V
2433	5322 122 32654	22nF 10% 63V
2434	5322 122 32654	22nF 10% 63V
2435	5322 122 32531	100pF 5% 50V
2436	5322 122 32531	100pF 5% 50V
2437	4822 126 13838	100nF 20-80% 50V
2438	4822 126 13838	100nF 20-80% 50V
2439	4822 126 13838	100nF 20-80% 50V
2440	4822 126 13838	100nF 20-80% 50V
2441	4822 126 14043	1µF 20-80% 16V
2449	4822 126 13838	100nF 20-80% 50V
2450	4822 126 13838	100nF 20-80% 50V
2451	4822 126 13473	220nF 80-20% 50V
2452	5322 122 32531	100pF 5% 50V
2453	5322 122 32531	100pF 5% 50V
2454	5322 122 32531	100pF 5% 50V
2455	5322 122 32531	100pF 5% 50V
2456	4822 122 33127	2n2F 10% 63V

3401	4822 116 52219	330Ω 5% 0.5W
3402	4822 116 52219	330Ω 5% 0.5W
3403	4822 116 52219	330Ω 5% 0.5W
3404	4822 116 52219	330Ω 5% 0.5W
3405	4303 308 75781	6k8 5% 0.125W
3405	4822 117 11507	6k8 1% 0.1W
3406	4303 308 75881	8k2 5% 0.125W
3406	4822 051 20822	8k2 5% 0.1W
3407	4303 308 75671	3k9 5% 0.125W
3407	4822 051 20392	3k9 5% 0.1W
3409	4303 308 75771	680Ω 5% 0.125W
3409	4822 117 10361	680Ω 1% 0.1W
3410	4303 308 75451	10k 5% 0.125W
3410	4822 117 10833	10k 1% 0.1W
3411	4303 308 75781	6k8 5% 0.125W
3411	4822 117 11507	6k8 1% 0.1W
3412	4303 308 75881	8k2 5% 0.125W
3412	4822 051 20822	8k2 5% 0.1W
3413	4303 308 75671	3k9 5% 0.125W
3413	4822 051 20392	3k9 5% 0.1W
3415	4303 308 75771	680Ω 5% 0.125W
3415	4822 117 10361	680Ω 1% 0.1W
3416	4303 308 75451	10k 5% 0.125W
3416	4822 117 10833	10k 1% 0.1W
3419	4822 116 83961	6k8 5%
3422	4303 308 75701	4k7 5% 0.125W
3422	4822 051 20472	4k7 5% 0.1W
3423	4303 308 75711	47k 5% 0.125W
3423	4822 117 10834	47k 1% 0.1W
3440	4303 308 75711	47k 5% 0.125W
3440	4822 117 10834	47k 1% 0.1W
3441	4303 308 75711	47k 5% 0.125W
3441	4822 117 10834	47k 1% 0.1W
3442	4303 308 75591	2k2 5% 0.125W
3442	4822 117 11449	2k2 5% 0.1W
3443	4303 308 75701	4k7 5% 0.125W
3443	4822 051 20472	4k7 5% 0.1W
3444	4303 308 75741	5k6 5% 0.125W
3444	4822 051 20562	5k6 5% 0.1W
3445	4303 308 75451	10k 5% 0.125W
3445	4822 117 10833	10k 1% 0.1W
3446	4303 308 75451	10k 5% 0.125W
3446	4822 117 10833	10k 1% 0.1W
3447	4303 308 75451	10k 5% 0.125W
3447	4822 117 10833	10k 1% 0.1W
3448	4303 308 75461	100k 5% 0.125W

3448	4822 117 10837	100k 1% 0.1W
3449	4303 308 75451	10k 5% 0.125W
3449	4822 117 10833	10k 1% 0.1W
3450	4303 308 75591	2k2 5% 0.125W
3450	4822 117 11449	2k2 5% 0.1W
3452	4822 052 10828	8Ω2 5% 0.33W
3453	4822 052 10828	8Ω2 5% 0.33W
3458	4303 308 75701	4k7 5% 0.125W
3458	4822 051 20472	4k7 5% 0.1W
3459	4303 308 75701	4k7 5% 0.125W
3459	4822 051 20472	4k7 5% 0.1W
3460	4303 308 75451	10k 5% 0.125W
3460	4822 117 10833	10k 1% 0.1W
3461	4303 308 75441	1k0 5% 0.125W
3461	4822 051 10102	1k 2% 0.25W
3462	4303 308 75441	1k0 5% 0.125W
3462	4822 051 10102	1k 2% 0.25W

6402	4822 130 30862	BZX79-B9V1
6403	4822 130 34278	BZX79-B6V8
6404	4822 130 34173	BZX79-B5V6
6405	4822 130 31878	1N4003G
6406	4822 130 31878	1N4003G
6407	4822 130 31878	1N4003G
6408	4822 130 31878	1N4003G
6409	4822 130 31878	1N4003G
6410	4822 130 31878	1N4003G
6411	4822 130 31878	1N4003G
6412	4822 130 31878	1N4003G
6413	4822 130 31878	1N4003G
6414	4822 130 31878	1N4003G
6415	4822 130 31878	1N4003G
6416	4822 130 31878	1N4003G
6417	4822 130 31878	1N4003G
6418	4822 130 31878	1N4003G
6422	4822 130 83338	LL4148
6428	4822 130 30621	1N4148
6429	4822 130 83338	LL4148
6430	4822 130 83338	LL4148
6431	4822 130 83338	LL4148
6432	4822 130 83338	LL4148
6433	4822 130 83338	LL4148
6436	4822 130 83338	LL4148

7401	4822 209 32641	TDA2616Q
7402	4822 209 30095	LM833D
7403	4822 209 30095	LM833D
7410	4822 130 60373	BC856B
7411	4822 130 60373	BC856B
7413	4822 130 60373	BC856B
7414	4822 130 44503	BC547C
7415	5322 130 60159	BC846B
7416	5322 130 60159	BC846B
7417	5322 130 60159	BC846B

Supply Panel Surround Speakers [W2]

Various

1201	2422 025 14044	6P
1202	4822 265 30734	4P
1203	4303 308 99380	3P
1204	4822 276 13224	Switch
1205	4822 265 11253	Fuse holder
1206	4822 070 32002	Fuse 2A

2201	4822 126 13838	100nF 20-80% 50V
2208	2222 336 20105	1nF 20% 275V
2210	4822 124 40196	220µF 20% 16V
4xxx	4822 051 10008	0Ω 5% 0.25W
4xxx	4822 051 20008	0Ω 5% 0.25W

5201	4303 308 75810	Coil TLF12UA

7201	9335 040 10685	LM7812CV

Connector Panel Surround Speakers [W3]

Various

1301	2422 025 04849	2P
1302	4822 265 10872	YKD21-0178
1304	4822 267 10735	B3B-EH-A
1305	4822 267 10734	B5B-EH-A

2303	4822 126 13751	47nF 10% 63V
2304	4822 126 13751	47nF 10% 63V

3306	4822 051 20008	Jumper

LED Panel Surround Speakers [W4]

Various

1101	4822 267 10748	3P

6101	8243 001 00551	LED