

Service Service Service

Service Manual

Contents	Page	Contents	Page
1 Technical Specifications, Connection Facilities, and Chassis Overview	2	SSB: If & SAW Filter (Diagram B1)	48
2 Safety and Maintenance Instructions, Warnings, and Notes	4	SSB: Vid. Source Sel/Data Link (Diagram B2)	49
3 Directions for Use	6	SSB: Audio Source Select (Diagram B3)	50
4 Mechanical Instructions	12	SSB: MPIF-Supply, E/W, Ctrl (Diagram B4)	51
5 Service Modes, Error Codes, and Faultfinding	14	SSB: Video Decoder (Diagram B5)	52
6 Block Diagrams, Testpoint Overview, and Waveforms		SSB: Feature Box (Diagram B6)	53
Wiring Diagram	23	SSB: RGB Processing (Diagram B7)	54
Block Diagram LSP Supply and Deflection	24	SSB: Sync & Deflection Proc. (Diagram B8)	55
Testpoint Overview LSP and CRT	25	SSB: Protection (Diagram B9)	56
Block Diagram 1 Audio & Video	26	SSB: Audio Processing (Diagram B10)	57
Block Diagram 2 Audio & Video	27	SSB: Control (Diagram B11)	58
Block Diagram 3 Audio & Video	28	SSB: Ctrl-Mem. Int. (EBIU) (Diagram B12)	59
Testpoint Overview SSB	29	SSB: Ctrl-Mem. Int. (SDRAM) (Diagram B13)	60
I ² C Overview	30	SSB: ADOC Supply (Diagram B14)	61
Supply Lines Overview	31	SSB: Low Volt. Supply ADOC (Diagram B15)	62
7 Circuit Diagrams and PWB layouts		SSB: Connector Interface (Diagram B18)	63
LSP: Main Supply (Diagram A1A)	32	Side I/O Panel (Diagram D)	74
LSP: Main Supply (Diagram A1B)	33	Top Control Panel (Diagram E)	76
LSP: Standby Supply (Diagram A2)	34	CRT Panel (Diagram F)	78
LSP: Line Deflection (Diagram A3)	35	DC-Shift Panel (Diagram G)	80
LSP: Frame Defl. E/W Drive (Diagram A4)	36	VDAF + 2nd Orders (Diagram I)	81
LSP: Rotation Circuitry (Diagram A5)	37	Front Interface (Diagram J)	83
LSP: Audio Amplifier (Diagram A6)	38	8 Electrical Alignments	85
LSP: Headphone Amplifier (Diagram A7)	37	9 Circuit Descriptions	92
LSP: Tuner, SIMM Conn.(Fem.) (Diagram A8)	39	List of Abbreviations	105
LSP: Front (Diagram A10)	40	IC Data Sheets	107
LSP: Inputs/Outputs (Diagram A11)	41	10 Spare Parts List	108
		11 Revision List	114

©Copyright 2003 Philips Consumer Electronics B.V. Eindhoven, The Netherlands.
All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, or otherwise without the prior permission of Philips.

1. Technical Specifications, Connections, and Chassis Overview

Index of this chapter:

1. Technical Specifications
2. Connections
3. Chassis Overview

Note: Figures below can deviate slightly from the actual situation, due to the different set executions.

1.1 Technical Specifications

1.1.1 Vision

Display type	: CRT, Real Flat
Screen size(s)	: 28 inch - 16:9 : 29 inch - 4:3 : 32 inch - 16:9
Tuning system	: PLL
IF frequency	: 38.9 MHz
Colour systems	: PAL: B/G,D/K,I : SECAM: B/G,D/K,L/L'
Channel selections	: NTSC-playback : 100 presets
Aerial input	: UVSH : 75 ohm, IEC-type

1.1.2 Sound

Sound systems	: FM-mono, AM-mono : FM-stereo: B/G : NICAM: B/G,D/K,I,L
Maximum power	: 4 x 10 W _{rms} (int.)

1.1.3 Miscellaneous

Mains voltage	: 220 - 240 Vac
Mains frequency	: 50 / 60 Hz
Ambient temperature	: +5 to +45 deg. C
Maximum humidity	: 90 % R.H.
Power consumption	:
- Normal operation	: ≈ 115 W
- Standby	: < 1 W

1.2 Connections

1.2.1 Front and Top Control, Side I/O Connections

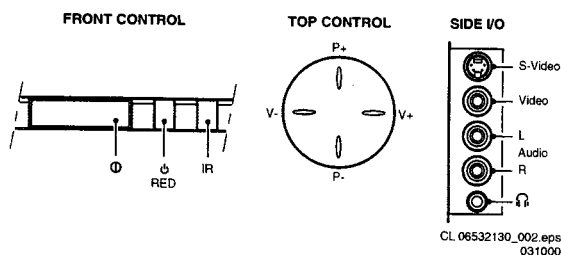


Figure 1-1 Front and Top Control, Side I/O connections

Hosiden: SVHS - In

1 - Y	Ground
2 - C	Ground
3 - Y	1 Vpp / 75 ohm
4 - C	0.3 Vpp / 75 ohm



Cinch: In

- CVBS	1 Vpp / 75 ohm
- Audio - L	0.5 Vrms / 10 kohm
- Audio - R	0.5 Vrms / 10 kohm



Mini Jack: Headphone - Out

- Headphone	32 - 600 ohm / 10 mW
-------------	----------------------



1.2.2 Rear Connections

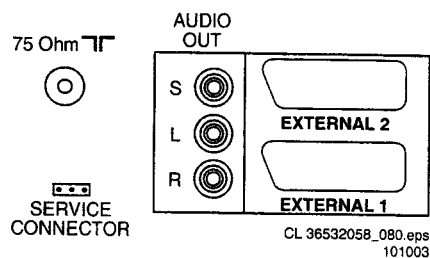


Figure 1-2 Rear connections

Aerial - In

- IEC-type	Coax, 75 ohm
------------	--------------



Service connector

1 - SDA-S	I2C data (5 V)
2 - SCL-S	I2C clock (5 V)
3 - GND	Ground



Audio - Out (Cinch)

S - Surround	0.5 Vrms / 1 kohm (optional)
L - Audio - L	0.5 Vrms / 1 kohm
R - Audio - R	0.5 Vrms / 1 kohm



External 1: RGB/YUV and CVBS - In/Out

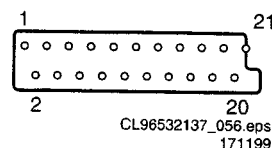
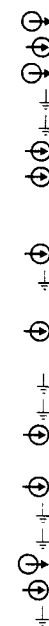


Figure 1-3 SCART connector

1 - Audio - R	0.5 Vrms / 1 kohm
2 - Audio - R	0.5 Vrms / 10 kohm
3 - Audio - L	0.5 Vrms / 1 kohm
4 - Audio	Ground
5 - Audio	Ground
6 - Audio - L	0.5 Vrms / 10 kohm
7 - Blue / U	0.7 Vpp / 75 ohm
8 - CVBS-status	0 - 1.3 V: INT 4.5 - 7 V: EXT 16:9 9.5 - 12 V: EXT 4:3
9 - Video	Ground
10 - N.C.	
11 - Green / Y	0.7 Vpp / 75 ohm
12 - N.C.	
13 - Video	Ground
14 - Video	Ground
15 - Red / V	0.7 Vpp / 75 ohm
16 - Status / FBL	0 - 0.4 V: INT 1 - 3 V: EXT / 75 ohm
17 - Video	Ground
18 - Video	Ground
19 - CVBS	1 Vpp / 75 ohm
20 - CVBS	1 Vpp / 75 ohm
21 - Shielding	Ground



External 2: CVBS and Y/C - In/Out (for recorder)

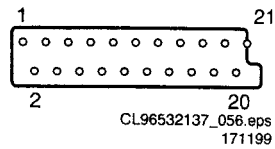
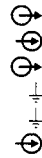
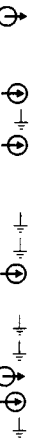


Figure 1-4 SCART connector

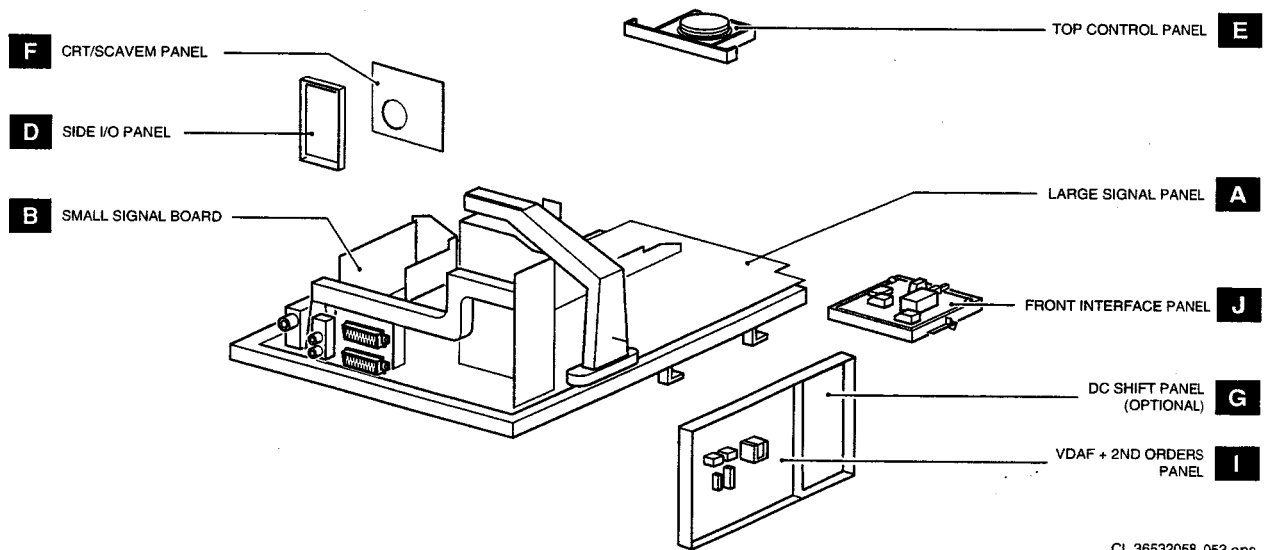
- | | |
|---------------|--------------------|
| 1 - Audio - R | 0.5 Vrms / 1 kohm |
| 2 - Audio - R | 0.5 Vrms / 10 kohm |
| 3 - Audio - L | 0.5 Vrms / 1 kohm |
| 4 - Audio | Ground |
| 5 - Audio | Ground |
| 6 - Audio - L | 0.5 Vrms / 10 kohm |



- | | |
|-----------------|--|
| 7 - C-in | 0.7 Vpp / 75 ohm |
| 8 - CVBS-status | 0 - 1.3 V: INT
4.5 - 7 V: EXT 16:9
9.5 - 12 V: EXT 4:3 |
| 9 - Video | Ground |
| 10 - Easylink | (P50) |
| 11 - N.C. | |
| 12 - N.C. | |
| 13 - Video | Ground |
| 14 - Video | Ground |
| 15 - C | 0.7 Vpp / 75 ohm |
| 16 - N.C. | |
| 17 - Video | Ground |
| 18 - Video | Ground |
| 19 - CVBS-out | 1 Vpp / 75 ohm |
| 20 - YCVBS-in | 1 Vpp / 75 ohm |
| 21 - Shielding | Ground |



1.3 Chassis Overview



CL 36532058_053.eps
211103

Figure 1-5 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.

- 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 Mohm and 12 Mohm.
 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.

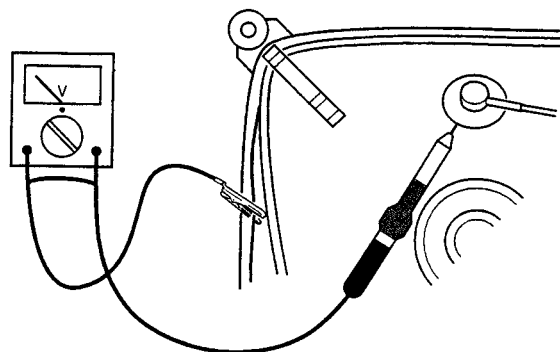
2.2 Maintenance Instructions

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 V_{dc}). Discharge until the meter reading is 0 V (after approx. 30 s).



CL96532156_040.eps
140501

Figure 2-1 Discharge picture tube

- All ICs and many other semiconductors are susceptible to electrostatic discharges (ESD, **▲**). Careless handling during repair can reduce life drastically. Make sure that, during repair, you are 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

2.4.1 General

- Measure the voltages and waveforms with regard to the chassis (= tuner ground $\perp$), or hot ground ($\perp$), 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.

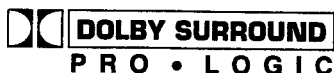


Figure 2-2 Dolby PL Symbol

Device replacement

The last step in the repair process is to solder the new component on the board. Ideally, the (LF)BGA should be aligned under a microscope or magnifying glass. If this is not possible, try to align the (LF)BGA with any board markers. To reflow the solder, apply a temperature profile according to the *IC data sheet*. So as not to damage neighbouring components, it may be necessary to reduce some temperatures and times

2.4.2 Schematic Notes

- All resistor values are in ohms and the value multiplier is often used to indicate the decimal point location (e.g. 2K2 indicates 2.2 kohm).
- Resistor values with no multiplier may be indicated with either an "E" or an "R" (e.g. 220E or 220R indicates 220 ohm).
- All capacitor values are expressed in micro-farads ($\mu = \times 10^{-6}$), nano-farads ($n = \times 10^{-9}$), or pico-farads ($p = \times 10^{-12}$).
- Capacitor values may also use the value multiplier as the decimal point indication (e.g. 2p2 indicates 2.2 pF).
- An "asterisk" (*) indicates component usage varies. Refer to the diversity tables for the correct values.
- The correct component values are listed in the Electrical Replacement Parts List. Therefore, always check this list when there is any doubt.

2.4.3 Rework on BGA (Ball Grid Array) ICs**General**

Although (LF)BGA assembly yields are very high, there may still be a requirement for component rework. By rework, we mean the process of removing the component from the PWB and replacing it with a new component. If an (LF)BGA is removed from a PWB, the solder balls of the component are deformed drastically so the removed (LF)BGA has to be discarded.

Device removal

As is the case with any component that, it is essential when removing an (LF)BGA, the board, tracks, solder lands, or surrounding components are not damaged. To remove an (LF)BGA, the board must be uniformly heated to a temperature close to the reflow soldering temperature. A uniform temperature reduces the chance of warping the PWB. To do this, we recommend that the board is heated until it is certain that all the joints are molten. Then carefully pull the component off the board with a vacuum nozzle. For the appropriate temperature profiles, see the IC data sheet.

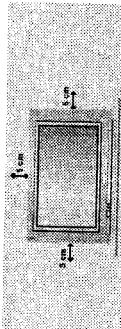
Area preparation

When the component has been removed, the vacant IC area must be cleaned before replacing the (LF)BGA. Removing an IC often leaves varying amounts of solder on the mounting lands. This excessive solder can be removed with either a solder sucker or solder wick. The remaining flux can be removed with a brush and cleaning agent. After the board is properly cleaned and inspected, apply flux on the solder lands and on the connection balls of the (LF)BGA.
Note: Do not apply solder paste, as this has shown to result in problems during re-soldering.

3. Directions for Use

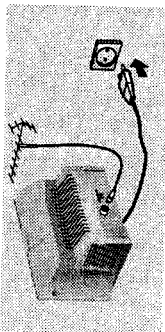
Installing your television set

1 Positioning the television set



Place your TV on a solid, stable surface, leaving a space of at least 5 cm around the appliance. To avoid accidents, do not put anything on the set such as a cloth or cover, a container full of liquid (vase) or a heat source (lamp). The set must not be exposed to water.

2 Connections

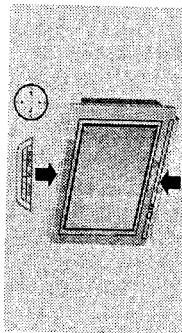


- Insert the aerial plug into the socket at the rear of the set.
If you are using an indoor aerial, reception may be difficult in certain conditions. You can improve reception by rotating the aerial. If the reception remains poor, you will need to use an external aerial.
- Insert the mains plug into a wall socket (220-240 V / 50 Hz).

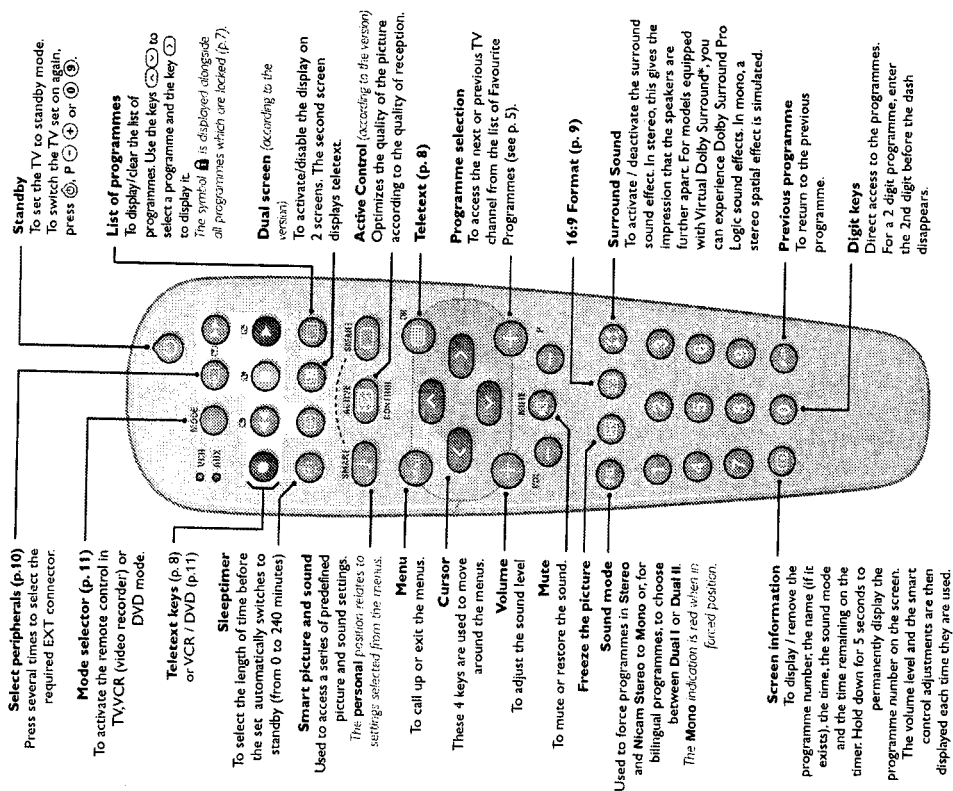
The keys on the TV set

The television set has 4 or 5 keys which are located on the front or the top of the set depending on the model.

The VOLUME - + (- +) keys are used to



Remote control keys

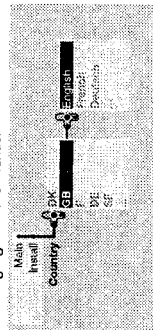


* Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbols are trademarks of Dolby Laboratories.

Plug & Play

Quick installation

When you turn on the TV set for the first time, a menu is displayed on screen. This menu prompts you to select the country and language for the menus:



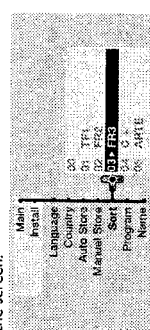
If the menu is not displayed, press and hold down the **△** and **▽** keys on the TV set for 5 seconds to display the menu.

- Use the **△** and **▽** keys on the remote control to select your country and validate with **↵**. If your country does not appear in the list, select choice "...".
- Next select your language using the **△** and **▽** keys and validate with **↵**.

- The search starts automatically. All the available TV programmes will be stored. This operation takes a few minutes. The display shows the progress of the search and the number of programs found. At the end of the search, the menu disappears. To exit or interrupt the search, press **⏏**. If no programme is found, consult the possible solutions p. 12.
- If the transmitter or cable network sends the automatic sort signal, the programs will be numbered correctly. In this case, the installation is complete.
- If this is not the case, you need to use the **Sort** menu to number the programs correctly. Some transmitters or cable networks broadcast their own sort parameters (region, language, etc.). In this case, indicate your choice using the **△** and **▽** keys and validate with **↵**.

Program sort

- Press key **⏏**. The Main menu is displayed on the screen.



- With the cursor, select the **Install** menu followed by the **Sort** menu.
- Select the programme you want to move using the **△** and **▽** keys and press **↵**.
- Then use the **△** and **▽** keys to select the new number and validate with **↵**.
- Repeat steps 1 and 2 for each program you wish to renumber.
- To quit the menus, press **⏏**.

Program name

If required, you can give a name to the programmes and external connectors. *Note: on installation, the programs are named automatically when an identification signal is sent.*

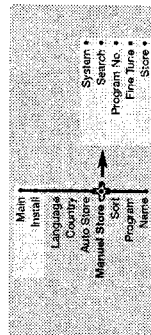
- Press the **⏏** key.
- With the cursor, select the **Install** menu, then **Name**.
- Use the **△** and **▽** keys to select the programme to name or rename.

- Use the **△** and **▽** keys to move around the name display area (5 characters) and the **△** and **▽** keys to select the characters.
- When the name has been entered, use the **↵** key to exit. The name is stored.
- Repeat steps 1 to 3 for each programme you wish to name.
- To quit the menus, press **⏏**.

Manual store

This menu is used to store the programmes one at a time.

- Press the **⏏** key.
- With the cursor, select the **Install** menu then **Manual store**:



- System**: select Europe (automatic detection^a) or Western Europe (BG standard), Eastern Europe (DK standard), United Kingdom (I standard) or France (LL standard).

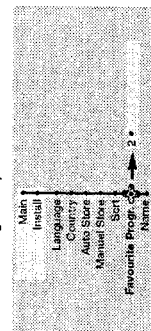
^a Except for France (LL standard), you must select choice **France**.

- Search**: press **↵**. The search starts. Once a programme is found, the scanning stops and its name is displayed (when available). Go to the next step if you know the frequency of the required programme, this can be entered directly using the **0** to **9** keys. If no picture is found, consult the possible solutions (p. 12).
- Program No.**: enter the required number with the **0** to **9** keys.
- Fine Tune**: if the reception is not satisfactory, adjust using the **△** and **▽** keys.
- Store**: press **↵**. The program is stored.
- Repeat steps 1 to 3 for each programme to store.
- To quit the menus, press **⏏**.

Favourite programmes

This menu allows you to select the programmes to be accessed with the **△** and **▽** key.

- Press the **⏏** key.
- With the cursor, select the **Install** menu then **Favourite Progr.** and press **↵**.



- The list of favourite programmes is displayed. The programmes that were stored at installation will automatically appear on this list.
- Use the up/down cursor to select the required programme.
 - Use the left/right cursor to add or remove a programme from the list.
 - Run through steps 1 and 2 for each programme to be added or removed from the list.
 - To exit, press **⏏** several times.

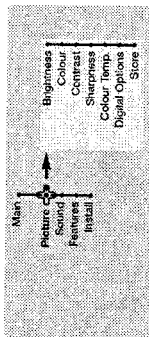
Other settings in the Install menu

- Press the **⏏** key and select the **Install** menu:
- Language**: to change the display language for the menus.
- Country**: to select your country (GB for Great Britain).
This setting is used for the search, automatic programme sort and teletext display. If your country does not appear in the list, select "...".
- Auto Store**: to start automatic search for all programmes available in your region. If the transmitter or cable network sends the

- automatic sort signal, the programmes will be numbered correctly. If this is not the case, you need to use the **Sort** menu to renumber the programmes (see p. 4).
- Some transmitters or cable networks broadcast their own sort parameters (region, language, etc.). In this case, indicate your choice using the **△** and **▽** keys and validate with **↵** to quit or interrupt the search, press **⏏**. If no picture is found, consult the possible solutions (p. 12).
- To quit the menus, press **⏏**.

Picture settings

- 1 Press **Menu** then **Picture** (P) The Picture menu is displayed:



- 2 Use the **Left** (←) and **Right** (→) keys to select a setting and the **Up** (↑) and **Down** (↓) keys to adjust.

Note: during the picture adjustment, only the selected line remains displayed. Press **Left** (←) to display the menu again.

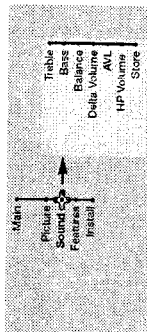
- 3 Once the adjustments have been made, select **Store** and press **Enter** (↵) to store them. Press **Exit** (X) to exit.

Description of the adjustments:

- **Brightness:** this changes picture brilliance.
- **Colour:** this changes the intensity of the colour.
- **Contrast:** this changes the difference between the light and dark tones.
- **Sharpness:** this changes the picture definition.
- **Colour Temp.:** this changes the colour rendering: Cold (bluer), Normal (balanced) or Warm (redder).
- **Digital Options:**
 - 100 Hz: 100 Hz processing.
 - Double lines: doubling of vertical resolution which removes visible picture lines. *Advised for NTSC (60/1-2) pictures.*
- **Store:** to store the picture adjustments and settings.

Sound adjustments

- 1 Press **Menu** select **Sound** (S) and press **Enter** (↵). The Sound menu is displayed:



- 2 Use the **Left** (←) and **Right** (→) keys to select a setting and the **Up** (↑) and **Down** (↓) keys to adjust.
- 3 Once the adjustments have been made, select **Store** and press **Enter** (↵) to store these changes.
- 4 To quit the menus, press **Exit** (X).

Description of the settings:

- **Treble:** this alters the high frequency sounds.
- **Bass:** this alters the low frequency sounds.
- **Balance:** this balances the sound on the left and right speakers.
- **Delta Volume:** this is used to compensate any volume discrepancies between the different programs or EXT sockets. This setting is available for programs 0 to 40 and the EXT sockets.
- **AVL (Automatic Volume Leveller):** this is used to limit increases in sound, especially on program change or advertising slots.
- **HP Volume:** allows you to adjust the headphones volume independently from the loud-speakers on the TV set.
- **Store:** this is used to store the sound settings.

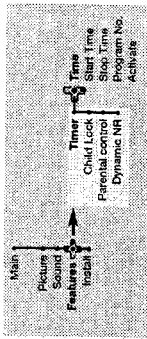
Feature settings

- 1 Press **Menu** select **Features** (F) and press **Enter** (↵). You can adjust:
- 2 Timer, Child Lock and Parental Cont. see next page
- 3 Dynamic NR: Min, Med (optimum position), Max or Off: attenuates picture noise (snow) in difficult reception conditions.

Timer function

This menu lets you use the TV set as an alarm.

- 1 Press the **Menu** key.
- 2 With the cursor, select the **Features** menu then **Timer**:



- 3 **Time:** enter the current time.

Note: the time is updated automatically each time the TV set is switched on via the teletext information on programme 1. If this program does not have teletext, the update will not take place.

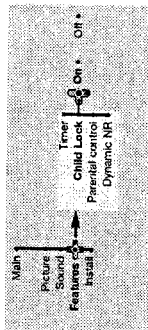
- 4 **Start Time:** enter the start time.
- 5 **Stop Time:** enter the standby time.
- 6 **Program No.:** enter the number of the programme for the wake-up alarm.
 - Activate: the settings include:
 - Once for a single alarm,
 - Daily for each day,
 - Stop to cancel.
- 7 Press **Enter** (↵) to put the TV set in standby. It will automatically come on at the time programmed. If you leave the TV set on, it will just change programmes at the time entered (and will go to standby mode at the **Stop Time**). By combining the **TV lock** and **Timer** functions, you can restrict the period during which the TV set is used, for example by your children.

TV lock

You can block certain programs or inhibit use of the TV set completely by locking the keys.

Child lock

- 1 Press **Menu**.
- 2 With the cursor, select the **Features** menu and position **Child Lock** to **On**.



twice and then enter your new code choice. The menu is displayed.

- 3 **Parental Cont.:** Use the **Left** (←) and **Right** (→) keys to select the TV programme required and validate with **Enter** (↵). The **Parental Cont.** symbol will be displayed opposite the programmes or sockets that are locked. From now on, to view a locked programme, you must enter your secret code, otherwise the screen will stay blank.

*The access to the **Install** menu is also locked. Caution, for encrypted programs using an external decoder, you must lock the corresponding EXT socket.*

- 4 **Change code:** this allows you to enter a new 4 digit code. Confirm your new code by entering it a second time.

If you have forgotten your secret code, enter the universal code 0711 twice.

- 5 **Unlock all:** this is used to unlock all locked programmes.

- 6 **Lock All:** this is used to lock all the TV programmes and EXT connectors.

- 7 Press the **Exit** (X) key to quit.

Parental control

- 1 Press the **Menu** key, select the **Features** menu then **Parental Cont.:**

You must enter your secret access code. The first time you enter this, enter code 0711

- 3 Turn off the TV set and hide the remote control. The TV set cannot be used (except via the remote control).

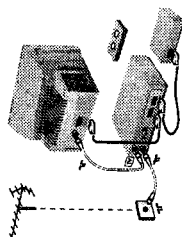
- 4 To cancel, position **Child Lock** to **Off**.

Connecting peripheral equipment

The television has 2 external sockets situated at the back of the set (EXT1 and EXT2).

The EXT1 socket has audio, CVBS/RGB inputs and audio, CVBS outputs.
The EXT2 socket has audio, CVBS/S-VHS inputs and audio, CVBS outputs.

Video recorder



Carry out the connections shown opposite, using a good quality euroconnector cable.

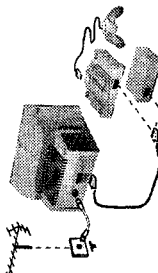
If your video recorder does not have a euroconnector socket, the only connection possible is via the aerial cable. You will therefore need to tune in your video recorder's test signal and assign it programme number 0 (refer to manual store, p. 5).

To reproduce the video recorder picture, press 0.

Video recorder with decoder

Connect the decoder to the second euroconnector socket of the video recorder. You will then be able to record scrambled transmissions.

Other equipment



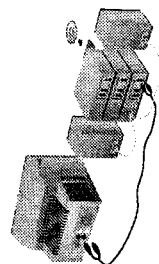
Satellite receiver, decoder, CDV, games, etc.

Carry out the connections shown opposite.

To optimise picture quality, connect the equipment which produces the RGB signals (digital decoder, games, etc.) to EXT1, and the equipment which produces the S-VHS signals (S-VHS and Hi-8 video recorders, certain DVD drives) to EXT2 and all other equipment to either EXT1 or EXT2.

Amplifier (only available on certain versions)

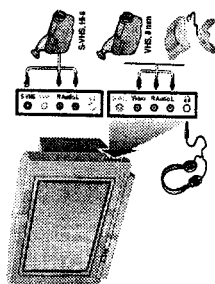
To connect to a hi-fi system, use an audio connection cable and connect the "L" and "R" outputs on the TV set to the "AUDIO IN" "L" and "R" input on your hi-fi amplifier.



To select connected equipment

Press the 0 key to select EXT1, EXT2, S-VHS2 (S-VHS signals from the EXT2 socket) and EXT3 for connections on the front panel.
Most equipment (recorder, video recorder) carries out the switching itself.

Side connections



Make the connections as shown opposite.

With the 0 key, select EXT3.

For a monophasic device, connect the audio signal to the AUDIO L input. Use the 0 key to reproduce the sound on the left and right speakers of the TV set.

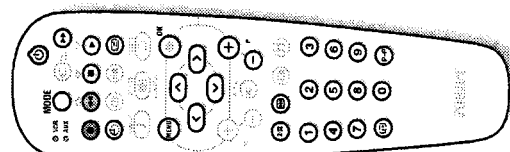
Headphones

Press the 0 key to mute the sound on the TV set (see also sound settings, page 6).

The headphone impedance must be between 32 and 600 Ohms.

Video recorder or DVD keys

The remote control lets you control the main functions of the VCR or DVD.



Press the MODE key to select the required mode : VCR (video recorder) or AUX (DVD). The remote control indicator lights up to display the selected mode. It switches off automatically after 20 seconds if left idle. The remote control automatically returns to TV mode.

The following keys are operational, depending on the equipment :

- standby, fast rewind, fast forward, recording, stop, play, VCR timer, DVD : subtitles language menu, navigation and adjustments, validation, digit keys, programme selection, audio selection, pause, OSD menu, DVD : T-C function / VCR : index function.

The remote control is compatible with all video recorders using the RCS standard and all DVDs using the RCB standard.

Personal Notes:

Tips

Poor reception

The proximity of mountains or high buildings may be responsible for ghost pictures, echoing or shadows. In this case, try manually adjusting your picture; see **Fine Tuning** (p.5) or modify the orientation of the outside aerial.

Does your antenna enable you to receive broadcasts in this frequency range (UHF or VHF band)?

In the event of difficult reception (snowy picture) switch the **Dynamic NR** on the **Features** menu to **ON** (p. 6).

No picture

If the television does not switch on, please press the standby key  (located on the remote control) twice.

Have you connected the aerial socket properly? Have you chosen the right system? (p. 5).

Poorly connected euroconnector cables or aerial sockets are often the cause of picture or sound problems (sometimes the connectors can become half disconnected if the TV set is moved or turned). Check all connections.

Peripheral equipment gives a black and white picture

To play a video cassette, check that it has been recorded under the same standard (PAL, SECAM, NTSC) which can be replayed by the video recorder.

The remote control no longer works.

Check that the mode selector on the side of the remote control is set to TV.

No sound

If on certain channels you receive a picture but no sound, this means that you do not have the correct TV system. Modify the **System** setting (p. 5).

Teletext

Are certain characters not displayed correctly? Check that the **Country** setting has been positioned correctly (p.5).

Remote control

The TV set does not react to the remote control; the indicator on the set no longer flashes when you use the remote control? Replace the batteries.

Standby

When you switch the TV set on it remains in standby mode and the indication **Locked** is displayed when you use the keys on the TV set?

The **Child Lock** function is switched **On** (p. 7). If the set receives no signal for 15 mins, it automatically goes into standby mode.

To save power, your set is fitted with components that give it a very low power consumption when in standby mode (less than 1 W).

Still no results?

If your TV set breaks down, never attempt to repair it yourself; contact your dealer's after-sales service.

Cleaning the set

Only use a clean, soft and lint-free cloth to clean the screen and the casing of your set. Do not use alcohol-based or solvent-based products.

Glossary

RGB Signals: These are 3 Red, Green and Blue video signals which directly drive the red, green and blue emitters in the cathode ray tube. Using these signals provides better picture quality.

NICAM sound: Process by which digital sound can be transmitted.

System: Television pictures are not broadcast in the same way in all countries. There are different standards: BG, DK, I, and L. The **SYSTEM** setting (p.6) is used to select these different standards. This is not to be confused with PAL or SECAM colour coding. Pal is used in most countries in Europe. Secam in France, Russia and most African countries. The United States and Japan use a different system called NTSC.

16:9: Refers to the ration between the length and height of the screen.

Wide screen televisions have a ration of 16/9, conventional screen TV sets have a ration of 4/3.

4. Mechanical Instructions

Index of this chapter:

1. Service connector
2. Set Disassembly
3. Service Positions
4. Assy / Board Removal
5. Set Reassembly

Note: Figures below can deviate slightly from the actual situation, due to the different set executions.

4.1 Service Connector (for ComPair)

For service diagnostics with ComPair, it is not necessary to disassemble the set. You only have to connect the ComPair interface box, via the appropriate cable, to the service connector (on the rear of the set, see figure 1-2), and start the program (see also chapter 5 "Service Modes, Error Codes, and Fault Finding").

4.2 Set Disassembly

Follow the disassemble instructions in described order.

4.2.1 Rear Cover Removal

Warning: disconnect the mains power cord before you remove the rear cover.

1. Remove all the fixation screws of the rear cover.
2. Now the rear cover can be removed.

4.3 Service Positions

This chassis has several predefined service positions, for better accessibility. They are explained below in more detail.

4.3.1 Large Signal Panel (LSP)

Component Side LSP

For better accessibility of the LSP, do the following (see Figure "Service position 1"):

1. Remove the LSP-bracket from the bottom tray by pulling it backwards.
2. Hook the bracket in the first row of fixation holes of the bottom tray. In other words, reposition the bracket from [1] to [2].

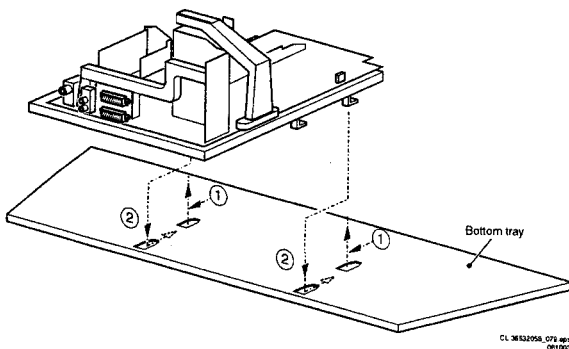


Figure 4-1 Service position 1

Solder Side LSP

To get access to the bottom side (solder side) of the LSP, do the following (see figure 4-1):

1. Remove the DAF-module (see paragraph "DAF Assy/ Panel" below).
2. Remove the Mains Switch-module (see paragraph "Mains Switch Assy/Panel" below).
3. Remove the cable from the side I/O panel.
4. Release some wiring from their fixation clamps, in order to get room for repositioning the LSP.
5. Flip the LSP 90 degrees clockwise [2], and place it in the fixation hole at the left side of the bottom tray [3].
6. Pull the LSP forward to fix it.

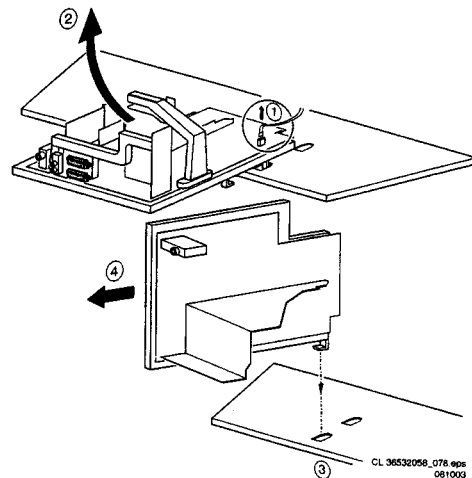


Figure 4-2 Service position 2

4.3.2 Small Signal Board (SSB)

In fact, there is no predefined service position for the SSB. Most test points are located on the A-side (side that is facing the tuner). If you have to replace ICs, you must take the complete SSB module out of the SIMM-connector.

Notes:

- For better access to the SSB, it is possible to order an "extension tool" with cables. You can use this service extension tool to connect a Small Signal Board (SSB) of an a02, A10, or EMG (EMx) chassis, via two "IDE" cables to the SIMM connector in the set. In this way, you can service the SSB more easily outside the TV set. You can order this tool under 12nc: 9965 000 14526.
- If necessary for the measurement, you can put the LSP in "service position 2" (as described above).

4.4 Assy / Board Removal

Sometimes, it can be necessary to swap a complete assy or Printed Wiring Board (PWB). How that can be done is explained below.

4.4.1 Top Control Assy/Panel

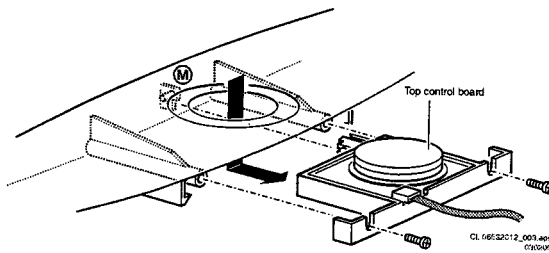


Figure 4-3 Top control panel

1. Remove the two fixation screws, which hold the panel.
2. Pull the board backward (w.o.w. release it from the front hinge).
3. The board can easily be lifted out of the bracket after releasing the two fixation clamps at the connector side.

4.4.2 Side I/O Assy and Panel

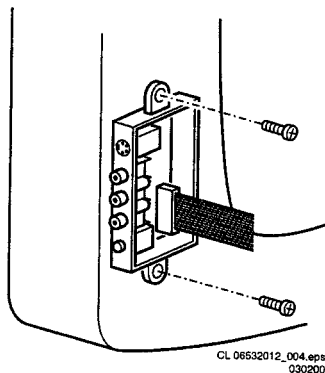


Figure 4-4 Side-I/O panel

1. The complete Side I/O-assembly can easily be removed by unscrewing the two fixation screws.
2. The board can easily be lifted out of the bracket after releasing the two fixation clamps.

4.4.3 Mains Switch Assy/Panel

4.4.4 Accessing the Mains Switch/LED panel

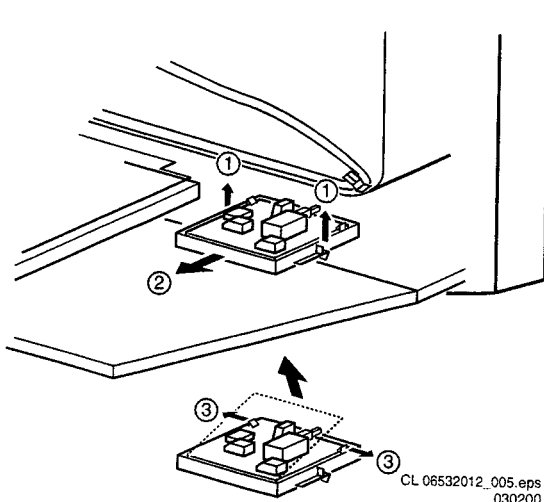


Figure 4-5 Mains Switch/LED panel

1. Release the two fixation clamps (1) by pushing them upward.
2. At the same time, the complete assy must be pulled backward (2).
3. If the board has to be removed, release the two clamps at the sides of the bracket and lift panel out (3).

4.4.5 DAF Assy/Panel

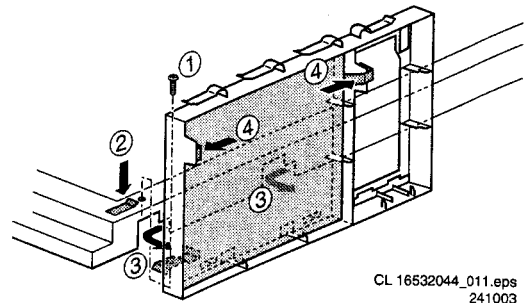


Figure 4-6 DAF-module

1. Remove the fixation screw [1] (if present).
2. Push down the fixation clamp [2], and pull the complete bracket at the same time away from the CRT [3]. The module is now free from the LSP-bracket.

4.4.6 Small Signal Board (SSB)

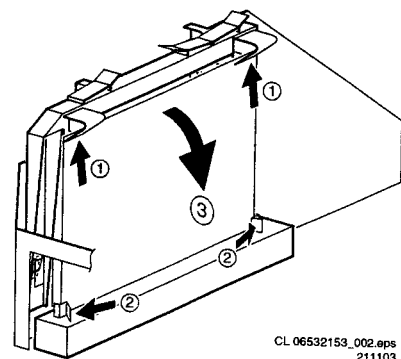


Figure 4-7 SSB removal

1. Push the top of the SSB towards the LOT [1].
2. Due to the pressure, the two metal clamps at both sides of the SIMM-connector will release [2].
3. Take the complete SSB out [3].

4.4.7 Large Signal Panel (LSP)

1. Remove the SSB (see paragraph "Small Signal Board (SSB)" above).
2. Disconnect the necessary cables.
3. Remove the fixation screw, which is located nearby the SIMM-connector.
4. Release the fixation clamps on the left of the LSP-bracket (the board hinges at the right side).
5. Remove the board from the bracket.

4.5 Set Re-assembly

To re-assemble the whole set, do all processes in reverse order.

Be sure that, before the rear cover is mounted:

- The mains cord is mounted correctly in its guiding brackets.
- All wires/cables are returned in their original positions. This is very important due to the large "hot" area of the set

5. Service Modes, Error Codes, and Fault Finding

Index of this chapter:

1. Test points
2. Service Modes
3. Problems and solving tips (related to CSM)
4. ComPair
5. Error Codes
6. The blinking LED procedure
7. Protections
8. Repair tips
9. Software downloading

5.1 Test Points

See chapter 6 "Block Diagrams, Testpoint Overview, and Waveforms".

Perform measurements under the following conditions:

- Service Default Mode.
- Video: colour bar signal.
- Audio: 3 kHz left, 1 kHz right.

5.2 Service Modes

Service Default Mode (SDM) and Service Alignment Mode (SAM) offer several features for the service technician, while the Customer Service Mode (CSM) is used for communication between a Philips Customer Care Centre (P3C) and a customer.

There is also the option of using ComPair, a hardware interface between a computer (see requirements below) and the TV chassis. It offers the ability of structured troubleshooting, test pattern generation, error code reading, software version readout, and software upgrading.

Minimum requirements: a Pentium processor, Windows 95/98, and a CD-ROM drive (see also paragraph "ComPair").

5.2.1 Service Default Mode (SDM)

Purpose

- To create a pre-defined setting, to get the same measurement results as given in this manual.
- To override SW protections (only when SDM is activated via shorting the SDM pins on the SSB).
- To start the blinking LED procedure.
- Inspection of error buffer, life timer, and software version.

Specifications

- Tuning frequency: 475.25 MHz for PAL/SECAM.
- Colour system: SECAM L for France or PAL B/G for the rest of Europe.
- All picture settings at 50 % (brightness, colour, contrast).
- All sound settings at 50 %, except volume at 25 %.
- All service-unfriendly modes (if present) are disabled, like:
 - (Sleep) timer.
 - Child/parental lock.
 - Blue mute.
 - Automatic volume limiter (AVL).
 - Auto switch-off (when no video signal was received for 10 minutes).
 - Skip/blank of non-favourite pre-sets.
 - Hotel or hospital mode.
 - Local keyboard block.
 - Smart modes.
 - Auto store of personal presets.
 - Auto user menu time-out.

How to Activate SDM

Use one of the following methods:

- Use the standard RC-transmitter and key in the code "062596", directly followed by the "MENU" button.
Note: It is possible that, together with the SDM, the main menu will appear. To switch it "off", push the "MENU" button again.
- Short circuit, during switch "on" of the set, the two solder pads on the SSB with the indication "FOR SERVICE". These solder pads are located at the "tuner" side of the SSB (just above the large BGA IC).
Caution: If the SDM is activated via these pins, all the software-controlled protections are de-activated for 15 s. When these 15 s are expired, the set will shutdown to protection mode.
- Use the DST-emulation feature of ComPair.
- Use the "DEFAULT" button on the Dealer Service Tool (RC7150).

After activating this mode:

- "SDM" will appear in the upper right corner of the screen.
- Also, the error buffer, operating hours, and software version are displayed (can be toggled "on/off" with the "STATUS / OSD / [i+]" button).
- Blinking LED procedure will be started.
- All software-controlled protections are overridden for 15 s. When these 15 s are expired, the set will shutdown to protection mode.

Contents of SDM:

- **HRS.** Displays the accumulated total of operation hours (not the standby hours) in hexadecimal value.
- **SW.** Displays the date of the software and the software version of the ROM
example: A02EB1_1.00 = AAABBC-X.YY.
 – **AAA**= chassis name.
 – **BB**= region and/or function name: E= Europe, A= Asia Pacific, U= NAFTA, L= LATAM, B= Basic, T= Top, P= PAL, N= NTSC, S= Stereo, M= Mono.
 – **C**= the language cluster number.
 – **X.Y**= the software version, where X is the main version number (different numbers are not compatible with one another) and Y is the sub version number (a higher number is always compatible with a lower number).
- **ERR** (followed by maximal 8 errors). The most recent error is displayed at the upper left (for an error explanation see paragraph "Error Codes").

How to navigate

- When you press the "MENU" button on the RC transmitter, the set will toggle between the SDM and the normal user menu (with the SDM mode still active in the background).
- When you press the "STATUS / OSD / [i+]" button on the RC transmitter, the set will toggle only display "SDM". This mode is useful when performing measurements, then the OSD info will not generate interference.

How to exit SDM

Use one of the following methods:

- Switch the set to STANDBY via a standard customer RC-transmitter (the error buffer is erased).
- Via a standard customer RC-transmitter: key in "00"-sequence (the error buffer is **not** erased).

5.2.2 Service Alignment Mode (SAM)

Purpose

- To perform alignments.
- To change option settings.
- To easily identify the used software version.
- To view operation hours.
- To display / clear the error code buffer.

Specifications

- Operating hours counter.
- Software version.
- Option settings.
- Error buffer reading and erasing.
- Software alignments.
- Disable service unfriendly modes.

How to activate SAM

Use one of the following methods:

- Via a standard RC transmitter: key in the code "062596" directly followed by the "STATUS / OSD / [i+]" button.
- Use the DST-emulation feature of ComPair.
- Press the "ALIGN" button on the DST while the set is in the normal operation

After activating this mode, "SAM" will appear in the upper right corner of the screen.

Contents of SAM:

- **HRS.** Displays the accumulated total of operation hours (not the standby hours) in hexadecimal value
Note: every time the set is switched "on" by the mains switch or the RC, the timer is increased by 0.5.
- **SW.** Displays the software version of the ROM
example: A02EB1_1.00 = AAABBC-X.YY.
 - **AAA**= chassis name.
 - **BB**= region and/or function name: E= Europe, A= Asia Pacific, U= NAFTA, L= LATAM, B= Basic, T= Top, P= PAL, N= NTSC, S= Stereo, M= Mono.
 - **C**= the language cluster number.
 - **X.Y**= the software version, where X is the main version number (different numbers are not compatible with one another) and Y is the sub version number (a higher number is always compatible with a lower number).
- **ERR** (followed by maximal 8 errors). The most recent error is displayed at the upper left (for an error explanation see paragraph "Error Codes").
- **CLEAR ERRORS.** When you press the "OK" button, the error buffer is reset.
- **OPTIONS.** Extra features for Service.
- **AKB.** Disable (off) or enable (on) the "black current loop" (AKB= Auto Kine Bias). For Vg2 alignment.
- **VSD.** Disable (off) or enable (on) the vertical deflection (VSD= Vertical Scan Disable). **Do not use** (will cause a protection). Is for future use.
- **TUNER.** This will activate the "TUNER" alignments sub-menu.
- **WHITE TONE.** This will activate the "WHITE TONE" alignments sub-menu.
- **GEOMETRY.** This will activate the "GEOMETRY" alignments sub-menu.
- **SOUND.** This will activate the "SOUND" alignments sub-menu.
- **SMART SETTINGS.** This will activate the "SMART SETTINGS" alignments sub-menu.
- **STORE.** This will save the new settings/alignments.
- **EEPROM TEST.** This will report if the SW checksum is OK. Convenient after SW upgrading.
- **VID RAM TEST.** This will check the continuity of the address bus and data bus of the Video RAM.
- **VG2.** This feature is not implemented yet. **Do not use.**

Note: Alignments are described in chapter 8 "Alignments".

How to navigate

- In SAM, you can select the menu items with the "CURSOR UP/DOWN" key on the RC-transmitter. The selected item will be highlighted. When not all menu items fit on the screen, move the "CURSOR UP/DOWN" key to display the next/previous menu items.
- With the "CURSOR LEFT/RIGHT" keys, it is possible to:
 - (De) activate the selected menu item.
 - Change the value of the selected menu item.

- Activate the selected submenu.

- When you press the "MENU" button on the RC transmitter, the set will toggle between the SAM and the normal user menu (with the SAM mode still active in the background).

How to exit SAM

Use one of the following methods:

- Switch the set to STANDBY via the RC-transmitter (the error buffer is erased).
- Via a standard customer RC-transmitter: key in "00"-sequence (the error buffer is **not** erased).

5.2.3 Customer Service Mode (CSM)**Purpose**

When a customer is having problems with his TV-set, he can call his dealer or the Philips helpdesk (P3C). The service technician can then ask the customer to activate the CSM, in order to identify the status of the set. Now, the service technician can judge the severity of the complaint. In many cases, he can advise the customer how to solve the problem, or he can decide if it is necessary to visit the customer. The CSM is a **read only** mode; therefore, modifications in this mode are not possible.

How to activate CSM

Use one of the following methods:

- Press the "MUTE" button on the RC-transmitter **simultaneously** with any key on the TV for at least 4 seconds.
- Key in the code "123654" via the standard RC transmitter.

Notes:

- Activation of the CSM is only possible if there is no (user) menu on the screen!
- During CSM, sound volume is set to 25% of the scale, "Smart Sound" is set to "Theatre" mode, and "Smart Picture" is set to "Rich/Movies" mode temporarily to ensure a good picture and sound of the working set. After leaving CSM, the original settings are restored.

How to navigate

By means of the "CURSOR-DOWN/UP" knob on the RC-transmitter, you can navigate through the menus.

Contents of CSM

The following information is displayed on screen:

- Text "CSM" on the first line.
 - Line number for every line (to make CSM language independent).
 - Option code information.
 - Configuration information.
 - Service-unfriendly modes.
1. **28PW8609/12** (if present). Type/model number according to the Philips standard.
 2. **SOFTWARE.** Software version AAABBC-X.YY.
 3. **HOURS ON.** Operating hours (in hexadecimal).
 4. **CODES.** Shows the contents of the error buffer (the word "error" may not be used on this screen, instead "codes" is used).
 5. **OP.** Option code information.
 6. **SYSTEM.** "XXXXXX" is the (colour) system that is set for this preset (this is not applicable to NAFTA and AP-NTSC models).
 7. **NO SIGNAL.** No "ident" signal present (VID status bit in MPIF) on selected source.
 8. **TIMER ON** (if present). Timer (in "FEATURE" menu) is activated.
 9. **CHANNEL LOCKED** (if present). Child Lock is activated (i.e. when local keyboard is locked).
 10. **NOT PREFERRED** (if present). Current channel is defined as skipped or non-preferred.

11. **HOTELMODE ON/OFF** (if present). Shows if the HOTEL mode is activated (only for Europe and AP).
12. **SOURCE**. Selected source before entry of CSM; XXX (channel no.), external source name (i.e. AV1, CVI, EXT1, etc...).
13. **SOUND**. Selected SOUND mode; "XX"= MONO, NICAM, STEREO, L1 (Language 1), L2 (Language 2), SAP, VIRTUAL, or DIGITAL prior entry to CSM.
14. **VOLUME**. Volume level before entry of CSM (typ. 00..100).
15. **BALANCE**. Balance level before entry of CSM (typ. - 50..50).
16. **BRIGHTNESS**. Brightness level before entry of CSM (typ. 00..100).
17. **COLOR**. Colour level before entry of CSM (typ. 00..100).
18. **CONTRAST**. Contrast level before entry of CSM (typ. 00..100).
19. **HUE** (if present). Hue level before entry of CSM (typ. - 50..100).

How to exit CSM

Use one of the following methods:

- After you press a key on the RC-transmitter (with exception of the "CHANNEL", "VOLUME" and digit (0-9) keys), or
- After you switch the TV-set "OFF" with the mains switch.
- After 15 min. no RC or local keyboard actions.

5.3 Problems and Solving Tips (related to CSM)

Note: Below described problems are all related to the TV settings. The procedures to change the value (or status) of the different settings are described above. New value(s) are automatically stored.

5.3.1 Picture Problems

Picture too dark

1. Press SMART PICTURE on the RC. In case the picture improves, increase the "Brightness" or the "Contrast" value. The new value(s) are automatically stored (in "personal" pre-set) for all TV channels.
2. Check in CSM lines BRIGHTNESS and/or CONTRAST. If the value of line BRIGHTNESS is low (< 10) or the value of line CONTRAST is low (< 10), increase them.

Picture too bright

1. Press SMART PICTURE on the RC. In case the picture improves, decrease the "Brightness" or the "Contrast" value. The new value(s) are automatically stored (in "personal" pre-set) for all TV channels.
2. Check in CSM lines BRIGHTNESS and/or CONTRAST. If the value of line BRIGHTNESS is high (> 40) or the value of line CONTRAST is high (> 50), decrease the "Brightness" or the "Contrast" value.

White line around picture elements and text

1. Press SMART PICTURE on the RC. In case the picture improves, decrease the "Sharpness" value. The new value is automatically stored (in "personal" pre-set) for all TV channels.
2. Check in CSM line SHARPNESS. Decrease the "Sharpness" value. The new value is automatically stored for all TV channels.

No picture

Check in CSM line 7. In case this line shows NO SIGNAL, check the aerial cable/aerial system.

Blue picture

No proper signal is received. Check the aerial cable/aerial system.

Blue picture and/or unstable picture

A scrambled or decoded signal is received.

Black and white picture

Check in CSM line COLOR. In case the value is low (< 10), increase the "Color" value. The new value is automatically stored for all TV channels.

No colours/colour lines around picture elements or colours not correct or unstable picture

1. Check in CSM line SYSTEM. If a "strange" system pops up, something has gone wrong during installation. Re-install the channel.
2. In case line SYSTEM is "FRANCE", the installed system for this pre-set is SECAM, while PAL is required. Install the required program again: open the installation menu and perform manual installation. Select system "West Europe".

Menu text not sharp enough

1. Press "SMART PICTURE". In case picture improves, decrease the "Contrast" value. The new value(s) are automatically stored for all TV channels.
2. Check in CSM line CONTRAST. If the value of this line is high (> 50), decrease the "Contrast" value.

5.3.2 Sound Problems

No sound from left and right speaker

Check in CSM line VOLUME. If the value is high, increase the value of "Volume". The new value(s) are automatically stored (in "personal" pre-set) for all TV channels.

Sound too loud for left and right speaker

Check in CSM line VOLUME. If the value is low, decrease the value of "Volume". The new value(s) are automatically stored (in "personal" pre-set) for all TV channels.

5.4 ComPair

5.4.1 Introduction

ComPair (Computer Aided Repair) is a service tool for Philips Consumer Electronics products. ComPair is a further development on the European DST (service remote control), which allows faster and more accurate diagnostics. ComPair has three big advantages:

- ComPair helps you to quickly get an understanding on how to repair the chassis in a short time by guiding you systematically through the repair procedures.
- ComPair allows very detailed diagnostics (on I²C level) and is therefore capable of accurately indicating problem areas. You do not have to know anything about I²C commands yourself because ComPair takes care of this.
- ComPair speeds up the repair time since it can automatically communicate with the chassis (when the microprocessor is working) and all repair information is directly available. When ComPair is installed together with the SearchMan electronic manual of the defective chassis, schematics and PWBs are only a mouse click away.

5.4.2 Specifications

ComPair consists of a Windows based faultfinding program and an interface box between PC and the (defective) product. The ComPair interface box is connected to the PC via a serial or RS232 cable.

For this chassis, the ComPair interface box and the TV communicate via a bi-directional service cable via the service connector.

The ComPair faultfinding program is able to determine the problem of the defective television. ComPair can gather diagnostic information in two ways:

- **Automatic** (by communication with the television): ComPair can automatically read out the contents of the entire error buffer. Diagnosis is done on I2C level. ComPair can access the I2C bus of the television. ComPair can send and receive I2C commands to the micro controller of the television. In this way, it is possible for ComPair to communicate (read and write) to devices on the I2C busses of the TV-set.
- **Manually** (by asking questions to you): Automatic diagnosis is only possible if the micro controller of the television is working correctly and only to a certain extent. When this is not the case, ComPair will guide you through the faultfinding tree by asking you questions (e.g. Does the screen give a picture? Click on the correct answer: YES / NO) and showing you examples (e.g. Measure test-point I7 and click on the correct oscillogram you see on the oscilloscope). You can answer by clicking on a link (e.g. text or a waveform picture) that will bring you to the next step in the faultfinding process.

By a combination of automatic diagnostics and an interactive question / answer procedure, ComPair will enable you to find most problems in a fast and effective way.

Beside fault finding, ComPair provides some **additional features** like:

- Up- or downloading of pre-sets.
- Managing of pre-set lists.
- Emulation of the Dealer Service Tool (DST).
- If both ComPair and SearchMan (Electronic Service Manual) are installed, all the schematics and the PWBs of the set are available by clicking on the appropriate hyperlink.

Example: Measure the DC-voltage on capacitor C2568 (Schematic/Panel) at the Mono-carrier.

- Click on the "Panel" hyperlink to automatically show the PWB with a highlighted capacitor C2568.
- Click on the "Schematic" hyperlink to automatically show the position of the highlighted capacitor.
- SW upgrading

5.4.3 Stepwise Start-up

This is realised via ComPair and is very helpful when a **protection** is activated (see also chapter "Protections"). Under normal circumstances, a fault in the power supply, or an error during start-up, will switch the television to protection mode. ComPair can take over the initialisation of the television. In this way, it is possible to distinguish which part of the start-up routine (hence which circuitry) is causing the problem. Take notice that the transition between two steps can take some time, so give the set some time to reach a stable state. During the transition time, the LED can blink strangely.

On activating Service mode, protections and other errors can be trapped by powering the TV in stepwise fashion as explained below. The "stepwise start-up" mode is done in the specified sequence. Before activating this mode, all the protections are disabled and are only enabled step-by-step, to trap the errors more appropriately.

The following steps are involved.

Step 0: Standby.

- Pre-condition: The set is in protection mode.
- Post-condition: The set is switched to the stepwise start-up mode. Only the necessary Standby Supply is present, all other supplies are switched "off".

Step 1: Power "on".

- Pre-condition: All protections are disabled, sound amplifiers are muted, and general initialisation is done.

- Post-condition: 8V and 5V supplies are "on". Degaussing is "on" and switched "off" after 3 s. The supply fault protections are enabled.

Step 2: Initialised.

- Pre-condition: Step 1 is done. No supply protection faults are detected.
- Post-condition: ADOC, MPIF, and Tuner components are initialised.

Step 3: Deflection "on".

- Pre-condition: Step 2 is done. No protection faults detected.
- Post-condition: Deflection is switched "on". The horizontal deflection fault protections are enabled.

Step 4: TV "on".

- Pre-condition: Step 3 is done. No protection faults detected.
- Post-condition: Picture tube is switched "on". Sound amplifiers are demuted. The X-ray/beam current fault protections are enabled.

Note: When the set is in stepwise mode and, due to stepping-up, a protection is activated, the set will really go into protection (blinking LED). The set will not leave the stepwise-mode however. If state X is the state where the set went to protection, stepwise start-up will return to state X-1. At state (X-1) diagnostic measurements can be performed. Also, in the short time, the set is in state X but not in protection, you can also do some measurements.

5.4.4 How To Connect

1. First, install the ComPair Browser software (see the Quick Reference Card for installation instructions).
2. Connect the RS232 interface cable between a free serial (COM) port of your PC and the PC connector (marked with "PC") of the ComPair interface.
3. Connect the mains adapter to the supply connector (marked with "POWER 9V DC") of the ComPair interface.
4. Switch the ComPair interface "OFF".
5. Switch the television set "OFF" with the mains switch.
6. Connect the ComPair interface cable between the connector on the rear side of the ComPair interface (marked with "I2C") and the ComPair connector at the rear side of the TV.
7. Plug the mains adapter in a mains outlet, and switch the interface "ON". The green and red LEDs light up together. The red LED extinguishes after approx. 1 second while the green LED remains lit.
8. Start the ComPair program and read the "Introduction" chapter.

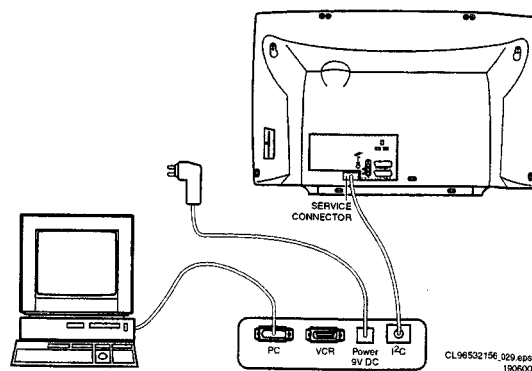


Figure 5-1 ComPair Interface connection

5.4.5 How To Order

ComPair order codes:

- Starter kit ComPair32/SearchMan32 software and ComPair interface (excl. transformer): 3122 785 90450.
- ComPair interface (excluding transformer): 4822 727 21631.
- Starter kit ComPair32 software (registration version): 3122 785 60040.
- Starter kit SearchMan32 software: 3122 785 60050.
- ComPair32 CD (2003 update): 3122 785 60110.
- SearchMan32 CD (2003 update): 3122 785 60120.
- ComPair interface cable: 3122 785 90004.
- ComPair firmware upgrade IC: 3122 785 90510.
- Transformer Europe: 4822 727 21632.
- Transformer UK: 4822 727 21633.

5.5 Error Codes

5.5.1 Introduction

The error code buffer contains all detected errors since the last time the buffer was erased. The buffer is written from left to right, new errors are logged at the left side, and all other errors shift one position to the right.

When an error has occurred, the error is added to the list of errors, provided the list is not full or the error is a protection error.

When an error occurs and the error buffer is full, then the new error is not added, and the error buffer stays intact (history is maintained), except when the error is a protection error.

To prevent that an occasional error stays in the list forever, the error is removed from the list after 50+ operation hours.

When multiple errors occur (errors occurred within a short time span), there is a high probability that there is some relation between them.

5.5.2 How to read the Error Buffer

Use one of the following methods:

- On screen via the SAM (only if you have a picture).
Examples:
 - 0 0 0 0: No errors detected
 - 6 0 0 0: Error code 6 is the last and only detected error
 - 9 6 0 0: Error code 6 was first detected and error code 9 is the last detected error
- Via the blinking LED procedure (when you have no picture). See next paragraph.
- Via ComPair.

5.5.3 How to clear the Error Buffer

Use one of the following methods:

- By activation of the "CLEAR ERRORS" command in the SAM menu.
- With a normal RC, key in sequence "MUTE" followed by "062599" and "OK".
- When you transmit the commands "DIAGNOSE" - "99" - "OK" with ComPair (or with a DST).
- If the content of the error buffer has not changed for 50+ hours, it resets automatically.

5.5.4 Error Codes

Error codes are required to indicate failures in the TV set. In principle a unique error is available for every:

- I2C device error.
- I2C bus error (for every bus containing two or more I2C devices).
- Protection error (e.g. +8V protection or Horizontal protection).
- Error not related to an I2C device, but of importance (e.g. BC-loop, RAM error).

Table 5-1 Error Table

Error	Description
0	No error
1	Horizontal Protection (via NOHFB bit in ADOC)
3	+8V error (missing/protection active by checking MPIF ASUP bit))
4	X-ray/High beam current protection signal (via XPROT bit in ADOC)
5	Hardware Protection is active (same as EMG)
7	Under-voltage protection
11	MPIF I2C communication failure / MPIF test failed
12	BC-loop not stabilised within the time limit (i.e. after timer is expired)
13	NVM I2C communication failure
14	Main tuner I2C failure UV13xx
17	3D Combfilter I2C communication failure
18	PIP Tuner I2C failure
19	2fH component input I2C failure (PCF8574)
21	PIP IF demodulator IC TDA988x communication failed (only for PIP/DW sets)
22	Flash over protection error (to register CRT flash-overs, via FPR bit in ADOC)

Service tips:

- In case of non-intermittent faults, clear the error buffer before you begin the repair. This to ensure that old error codes are no longer present. Before clearing the buffer, write down the content, as this history can give you significant information.
- If possible, check the entire contents of the error buffer. In some situations, an error code is only the result of another error code and not the actual cause (e.g., a fault in the protection detection circuitry can also lead to a protection).

5.6 The Blinking LED Procedure

5.6.1 Introduction

Via this procedure, you can make the contents of the error buffer visible via the front LED. This is especially useful for fault finding, when there is no picture.

When the SDM is activated, the front LED will show (blink) the contents of the error-buffer. Error-codes > 10 are shown as follows:

1. A long blink of 750 ms (which is an indication of the decimal digit),
2. A pause of 1500 ms,
3. "n" short blinks (where "n" = 1 - 9),
4. When all the error-codes are displayed, the sequence finishes with a LED blink of 3000 ms,
5. The sequence starts again.

Example: Error 12 9 6 0 0.

After activation of the SDM, the front LED will show:

1. 1 long blink of 750 ms (which is an indication of the decimal digit) followed by a pause of 1500 ms,
2. 2 short blinks of 250 ms, followed by a pause of 3000 ms,
3. 9 short blinks of 250 ms, followed by a pause of 3000 ms,
4. 6 short blinks of 250 ms, followed by a pause of 3000 ms,
5. 1 long blink of 3000 ms to finish the sequence,
6. The sequence starts again.

5.6.2 How to activate

Use one of the following methods:

- Activate the SDM (only via soldering pads marked "FOR SERVICE" on the SSB). The blinking front LED will show the entire contents of the error buffer (this works in "normal

operation" mode and in "protection" mode). In order to avoid confusion with RC5 signal reception blinking, this LED blinking procedure is terminated when an RC5 command is received.

- Transmit the commands "MUTE", "06250x", and "OK" with a normal RC (where "x" is the position in the error buffer that has to be displayed). With x= 1, the last detected error is shown, x= 2 the second last error, etc.... When x= 0, all errors are shown.
- "DIAGNOSE X" with the DST (where "x" is the position in the error buffer that has to be displayed). With x= 1, the last detected error is shown, x= 2 the second last error, etc.... When x= 0, all errors are shown.

Note: It can take some seconds before the blinking LED starts.

5.7 Protections

5.7.1 Introduction

Fault protections are introduced to avoid unacceptable temperature rising and burning hazards. If a fault situation is detected, an error code will be generated and if necessary, the set is put in protection mode.

The protection mode is indicated by the blinking of the front LED at a frequency of 3 Hz (or by a coded blinking in special cases). For the customer, it is made impossible to switch "on" the set during a protection.

It is possible to determine the type of fault by interpreting the blinking pattern of the LED indicator. It is also possible to read out the error codes from the NVM via ComPair. It is possible to de-activate the protection states in the Service Default Mode.

The following protections are implemented:

Table 5-2 Protections overview

Protection	Detection method	Bit name	Detection
Under Voltage	Via ADC (KB)	ADC (KB)	ADC input
+8V Supply	Via MPIF_IRQ	ASUP	MPIF internal register
Horizontal fly-back	Via interrupts	NOHFB	ADOC internal register (DOP)
X-ray	Via interrupts	XPROT	ADOC internal register (DOP)
Beam Current	Via interrupts	BCF	ADOC internal register (DOP)
Flash	Hardware ctrl	-	Hardware
Arc	Hardware ctrl	-	Hardware
Vertical	Hardware ctrl	-	Hardware
East/West	Hardware ctrl	-	Hardware
Bridge coil	Hardware ctrl	-	Hardware

The protections are split up in the following order:

- I2C related protections.
- ADOC related protections (via polling on I/O pins or via algorithms).
- DOP related protections (mainly for deflection items).
- Hardware errors that are not sensed by the OTC (e.g. vertical flyback protection, bridge coil protection, E/W protection, arcing protection).

All faults detected are re-checked five times before the protection mode is triggered. It should be noted that supply fault detection/protection are enabled only after the chassis power supply has been established. Likewise, after the line drive starts, the deflection detection/protection must be enabled. To prevent false activation of protection mode during power mode transitions, interrupts related to supply fault and deflection fault are disabled.

5.7.2 I2C Related Protections

In normal operation, some registers of the I2C controlled ICs are refreshed every 200 ms. During this sequence, the I2C busses and the I2C ICs are checked.

An I2C protection will take place if the SDA and SCL lines are short-circuited to ground, or to each other. An I2C error will also occur, if the power supply of the IC is missing.

5.7.3 ADOC Related Protections

If a protection is detected at an ADOC input, the uP will start to scan all protection inputs every 200 ms for five times. If the protection on one of the inputs is still active after 1 s, the microprocessor will put the set in the protection mode. Before the scanning is started, a so-called "ESD refresh" is carried out. This is done, because the interrupt on one of the inputs is possibly caused either by a flash or by ESD. As a flash or ESD can influence IC settings, the key ICs are initialised again, to ensure the normal picture and sound conditions of the set.

Under Voltage Protection

The under voltage protection is needed due to the non-isolated chassis architecture used in A02. Whenever there is a short circuit in the Deflection yoke coil or in the Audio power supply, the averaged Horizontal Flyback Voltage (HFB_XRAY_PROT) will fall. After signal conditioning, this voltage is fed to the "KEYBOARD_ADC" input. When this input of the MIPS controller is less than a certain level, the under voltage protection is activated. This is done by the normal keyboard polling mechanism.

The protection mode is activated after five consecutive occurrences. Response time required is 2 s. This is to avoid set going to under voltage protection mode during start up, since the HFB will only be stable w.r.t. mains on for about 1.6 s.

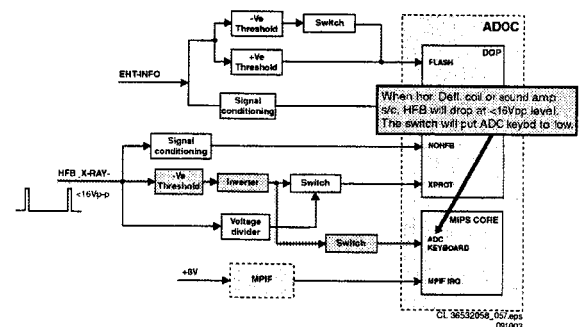


Figure 5-2 Under Voltage Protection

+8V Protection

Hardware is employed for the detection of +8V supply fault. A hardware interrupt (MPIF-IRQ) is generated by the MPIF when the +8V supply falls below the IC specification.

To avoid false detection, the corresponding interrupt sub routine checks the status of "ASUP" bit in the MPIF status register for five times consecutively with an interval of 200 ms before triggering the protection mode. Response time required is 1.2 s.

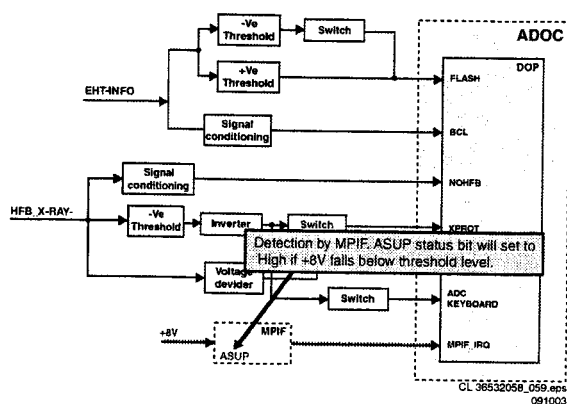


Figure 5-3 +8V Protection

5.7.4 DOP Related Protections

The uP reads every 200 ms the status register of the DOP (via the I2C bus). If a protection signal is detected on one of the inputs of the DOP, the relevant error bit in the register is set to "high". If this error bit is still "high" after 1 s, the OTC will store the error code in the error buffer of the NVM and, depending on the relevancy of the error bit, the set will either go into the protection mode or not.

Horizontal Fly Back Protection

Hardware is employed for the detection of a horizontal deflection fault. The DOP core generates a hardware interrupt when consecutive three horizontal flyback pulses are not received at the HFB input of the DOP block of the AD0C IC. To avoid false detection, the corresponding interrupt sub routine checks the status of "NOHFB" status bit in the DOP core for five times consecutively with an interval of 50 ms before triggering the protection mode. The response time for this protection needed is 300 ms.

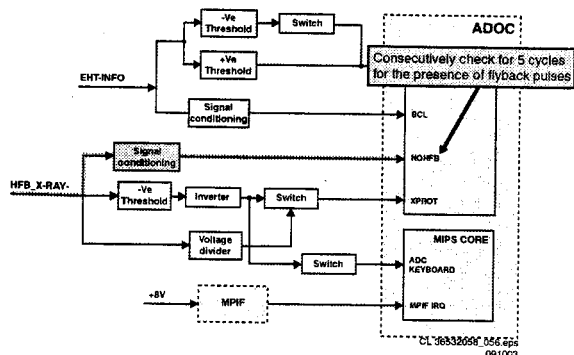


Figure 5-4 Horizontal Fly Back Protection

X-Ray Protection (Over Voltage, USA only)

Hardware is employed for the detection of X-ray fault. A hardware interrupt is generated by the DOP core when the "XPROT" input of AD0C IC is pulled "HIGH" (flyback pulses are > 27 V_{pp}).

To avoid false detection, the corresponding interrupt sub routine checks the status of "XPROT" bit in DOP core for five times consecutively with an interval of 50 ms before triggering the protection mode. It should be noted that the "XPROT" status is not reset on reading. It should be cleared by the software explicitly.

Once the XRAY protection status is confirmed, the "PRD" bit has to be set to "1" by software. This enables an automatic stop of the H-out via Slow Stop initiated by auto-clearing the DFL bit. Now, the protection mode is activated.

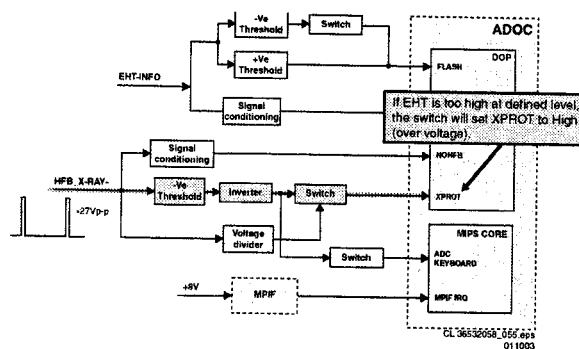


Figure 5-5 X-Ray Protection

Beam Current Protection

A hardware interrupt is generated by the DOP core when the current at the BCL input of the AD0C IC exceeds the limit. To avoid false detection, the corresponding interrupt sub routine checks the status of "BCF" bit in DOP core for five times consecutively with an interval of 50 ms before triggering the protection mode. Once the BCL protection status is confirmed, the "PRD" bit has to be set to "1" by software. This enables an automatic stop of the H-out via Slow Stop initiated by auto-clearing the "DFL" bit. Now, the protection mode is activated.

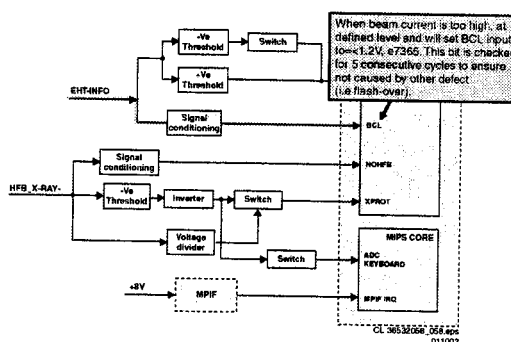


Figure 5-6 Beam Current Protection

Flash Protection

Flash detection is used to shutdown the set only if the Flash occurs more than 5 times and is persistent. Therefore, this is a method to protect the set from undue electrical stress because of picture tube flashes. The flash detector circuitry uses the "EHT_INFO" signal as input. Its output is connected to the "FLASH" input of the DOP block of the AD0C. When the "FLASH" input is pulled "HIGH", the AD0C's horizontal drive output stops immediately and the "FPR" status bit of the DOP core is set to "1". The status is latched until readout. With the absence of any other disturbances, the horizontal drive output will restart after the "FLASH" input is "LOW" again. No software interaction is required in this case. The "FPR" bit has to be readout by polling at an interval of 500 ms. If the "FPR" status bit has been set to "1" for more than 5 times consecutively, then the protection mode has to be triggered. Setting the "FPR" bit for less than 5 times by the "FLASH" input does not need to trigger the protection mode (shutting down of the H-drive should be enough).

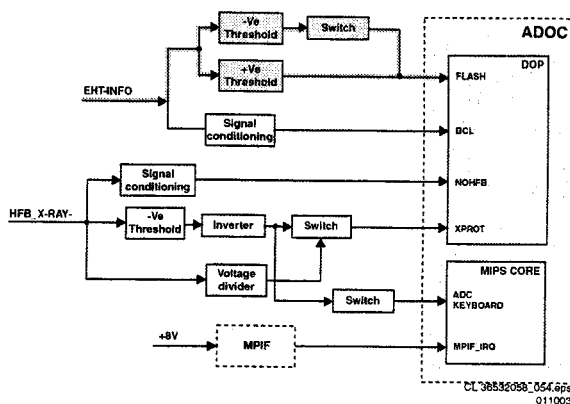


Figure 5-7 Flash Protection

5.7.5 Hardware Related Protections

Due to the architecture (read "hot" deflection), some protections cannot be sensed by the microprocessor. These protections will lead to a protection on set level (Standby mode and blinking LED).

Arc Protection

If there are "open" connections (e.g. bad solder joints) in the high-energy deflection circuitry, this can lead to damaging effects (read: fire). For that reason, the E/W current is sensed (via 3479/3480). If this current becomes too high, the "thyristor" circuit (TS7653 and TS7654) is triggered. TS7442 is switched "on" and TS7443 is forced into conduction. The "SUP-ENABLE" signal is shorted now to ground level, which will force the Main Power Supply to Standby mode. This prevents further arcing.

Vertical Protection

If the frame stage generates no pulses, TS7641 will block. TS7443 is now switched "on", which will lead to Standby mode. Therefore, in normal operation condition, TS7641 and TS7652 are conducting, while TS7443 is blocked.

EW protection

Several faults in the deflection circuit can cause excessive currents through MOSFET 7480. The temperature of this device can become too high, causing an unsafe situation. The power supply is shut down in the above-mentioned way.

Caution: All hardware deflection protections can be disabled by interrupting R3403 on the LSP.

However, be careful: unsafe situations (heat) can occur or the picture tube can be destroyed.

Bridge coil protection

According safety regulations, every coil may be short-circuited. By doing this in the secondary winding of coil L5422, high currents will flow in the winding. With no safety circuit, the coil will begin to burn soon.

This is sensed via the "EW" signal going to the base of TS7652 (via R3495 and D6499). In a normal situation, the voltage on C2498 (diagram A4) is high and TS7652 is conducting. When bridge coil 5422 (diagram A3) is short circuited, the voltage on C2498 changes to low, which will block TS7652. In this case, also TS7641 will block and the voltage on 2642 will rise until TS7443 is forced in conduction. The "SUP-ENABLE" signal (in normal operating condition -20 V) is shorted now to ground level, which will force the Main Power Supply to Standby mode.

Note: Maximum EW width settings can also cause a protection.

5.8 Repair tips

5.8.1 Miscellaneous

The relay you hear when you switch the set "on" (from Standby or via the mains switch), is from the degaussing circuitry. It is **not** used for switching the Power Supply (as done in the MG-chassis).

- Take care not to touch the "hot" heatsink while disconnecting the SSP, despite the fact that the mains cord is out of the mains socket. There still can be an annoying rest-voltage on the heatsink for a short while, because the discharge resistors 3502 and 3503 (on the LSP between hot and cold part) are not stuffed for Europe. Instead, discharge resistors 3066 and 3057 on the Mains Switch panel are used, but because they are located **before** the Mains switch, they only discharge when this switch is "on". **Advice:** when you want to disconnect the SSP, first disconnect the Mains cord, but keep the Mains Switch in the "on" position.
- Where the circuitry was too "crowded" for service printing, you can find the correct location on the "test point overviews" in this manual.
- A very large part of the LSP is "hot", such as:
 - The primary part of the Standby Supply.
 - The whole Main supply (except for the secondary Audio supply).
 - And the complete deflection circuitry (so notice that the deflection coil is hot!).

5.8.2 Start-up/Shut-down Sequence

For a detailed description, see chapter 9 "Circuit Descriptions, Abbreviation List, and IC Data Sheets".

5.8.3 ComPair

This chassis does not have an IR transmitting LED (as in MG-sets). Therefore, a "Service" (ComPair) connector is implemented at the rear side of the set, which is directly accessible. In addition to this, there is also a blinking LED procedure to show the contents of the error buffer.

When you use ComPair, you have the possibility to activate a "stepwise start-up" mode. With this mode, you can initiate the start-up sequence step by step. This also means that in certain steps, some protections are not activated. This is sometimes very convenient during repair.

5.8.4 Protections

Activating SDM via the "service pads" will overrule the processor-controlled protections, but **not** the hardware protections.

Caution: When doing this, the service technician must know what he is doing, as it could lead to damaging the set.

The "ARC"- and/or "BRIDGECOIL" protection are hardly ever triggered, however:

- When you suspect the "ARC" protection, look for bad solder joints and smell. By interrupting resistor 3497, this protection is disabled (special attention needed!).
- When you suspect the "BRIDGECOIL" protection, which can also be due to a too wide picture amplitude, shorten G and S of the E/W MOSFET 7480. This will disable the protection. You will now have minimal horizontal amplitude. Re-align the horizontal amplitude in the SAM menu and remove the G/S short of TS7480.

5.8.5 Main Supply

1. Replace FET 7504 and zener 6505.
2. Disconnect the SSP panel.
3. Short B and E of TS7529, in order to put the Main Supply in "on"-mode (TS7529 is blocking then).
Caution: To prevent that R3403 and TS7443 will be damaged, first disable the HW-protection of the deflection circuit. Therefore, short-circuit C2642 on the LSP (diagram A4).
4. Attach a load of 500 Ω to the V_BAT capacitor C2515 (the supply can not work without a minimum load).
5. Use a variac, and slowly increase the V_MAINS. Measure over sensing resistors R3514//15, if a nice sawtooth voltage becomes available.
6. Also, measure the V_BAT. This may never exceed +141 V. If it does, there is something wrong in the feedback circuitry (e.g. regulator 7506).

Note: Be careful when measuring on the gate of FET TS7504. This circuitry is very high ohmic and can easily be damaged

(first connect ground to measuring equipment, than measure the gate).

5.8.6 Frame Deflection

Caution: When the Frame Deflection circuitry is suspected, one must be careful. Because there is a DC-voltage on the frame deflection, the beam current could damage the CRT neck, leading to a defective CRT.

To prevent this from happening, you must:

1. Interrupt the resistors 3403 and 3404 on the CRT panel (diagram F), in order to remove the "filament" voltage from the tube (no beam current, so no chance of destroying the CRT).
2. Interrupt resistor 3403 on the LSP (diagram A4) to disable the "SUP-ENABLE" line.
3. Measure with a multi-meter, or better with an oscilloscope, the functionality of the Frame stage.
4. After you have found the cause, exchange the defective component (e.g. TDA8177), and re-solder the interrupted resistors.

Table 5-3 Repair tips

Phenomenon	Possible Cause	Repair tip
No picture, no LED.	Standby Supply defective.	Measure circuitry (see diagram A2). Start at test-point A19. When the Mains switch is "on", this voltage must always be available.
No picture, LED blinking at 3 Hz.	Set is in protection due to various causes. For error codes see error-code list.	You have no picture, so: read the error buffer via ComPair (error buffer is accessible when set is in protection, ComPair-file will guide you to this). Read the blinking LED information via standard remote command mute-062500-ok. Or you read the error code sequence via standard remote command mute-062500-ok. When you have found the error, check the circuitry related to the supply voltage and I2C-communication or the circuitry that triggers the protection.
No picture, LED blinking with code 8-8-8-etc or 9-9-9-etc.	No communication on slow I2C- or fast I2C-bus.	As processor cannot communicate with one of the 2 busses it the standby-LED spontaneously starts blinking 8-8-8-etc or 9-9-9-etc.... If in the error buffer somewhere is an error 8 or 9, these will have the highest priority starting the mentioned blinking. Measure dependent of the error on the I2C-bus which device is loading the bus (use the I2C-overview)
No picture, LED blinking with code 13-13-13-etc.	No communication on NVM-I2C bus to the uP.	As the uP cannot communicate with the NVM I2C bus, it spontaneously starts blinking 13-13-13-etc. Note: when there is no access to the NVM, a lot of picture setting can go wrong.
No picture, no sound. Set is making audible squeaking sound	Supply is possibly in hiccup-mode, which is audible via a squeaking supply transformer.	Possible causes: V_BAT is shorted (caused by short circuited line transistor 7421), the sound winding is shorted (amplifier is shorting the power supply lines), or D6514 is shorted (due to a too high V_BAT). Remove excessive load, to see what causes the failure, or check feedback circuit. See repair tip "Main Power Supply" (supply needs a minimal load).
No picture, no sound. Front LED works fine	Supply does not work correctly.	If e.g. V_BAT is only about 90 V, it is possible that the regulator IC (7506) is defective.
No RC-reception. Front LED does not echo RC-commands.	uP circuitry or RC-receiver is defective.	In case the set does react on a local keyboard operation, you must check the RC-receiver circuitry (diagram J).
Relay (degaussing) is not audible; when set is switched from "off" or "standby" to "on".	uP is not working correctly. When line "DEGAUS" is low, the degaussing must be activated.	Check RESET-circuitry (IC7581 on diagram B11). Check the level on line "DEGAUS" when you switch the set "on". Signal must be low initially and go to high after approx. 12 s.
Picture is rotated.	Rotation circuitry (if present) on diagram A5, or related supply to it, malfunctions.	Measure test points on diagram A5.
Picture is continuously switching "off" and "on", showing heavy "switch" spots (set does not go into protection).	200 V is missing on CRT panel.	Probably a bad connection from LSP connector 1424 to CRT connector 1424 (diagram F), or an interruption of the 200 V supplies line (e.g. R3341 on circuit F1 is interrupted).
Picture is not sharp.	Focus is possibly mis-aligned or SCAVEM-circuitry does not work correctly.	Re-align the "FOCUS" potmeter on the Line Output Transformer, or check the SCAVEM circuitry on the CRT-panel (diagram F). It is also possible that the DAF circuitry is defective (see diagram I). Check the V_dc values.
Picture is distorted.	Check video-path in Service Default Mode.	Investigate whether there is an error code present in the error buffer. In case there is one, check the I2C-bus and/or supply lines (see overview supply lines). Measure and check signal path Tuner-MPIF-ADOC-RGB amplifier. In case it is a geometry issue, check on diagram A4 opto-coupler 7482, OpAmps 7440/7450 and the Frame circuitry alignments or a possible corrupted NVM (IC7525 on diagram B11).
No menu, no OSD.	Probably a defective uP (ADOC).	
No Teletext.	IC7730 defective or not powered.	Check circuitry around IC7730 on diagram B13.
Strange switch "off" behaviour	TS7445 possibly defective.	Check, with a multi-meter, whether transistor TS7445 is well functioning. (diagram A3).
Various symptoms, due to missing local supply voltage.	An interrupted fuse, NFR-resistor or connection.	When no symptom or error code leads you to a specific circuitry, use the supply lines overview (see supply lines overview), for a quick scan of all supply lines.

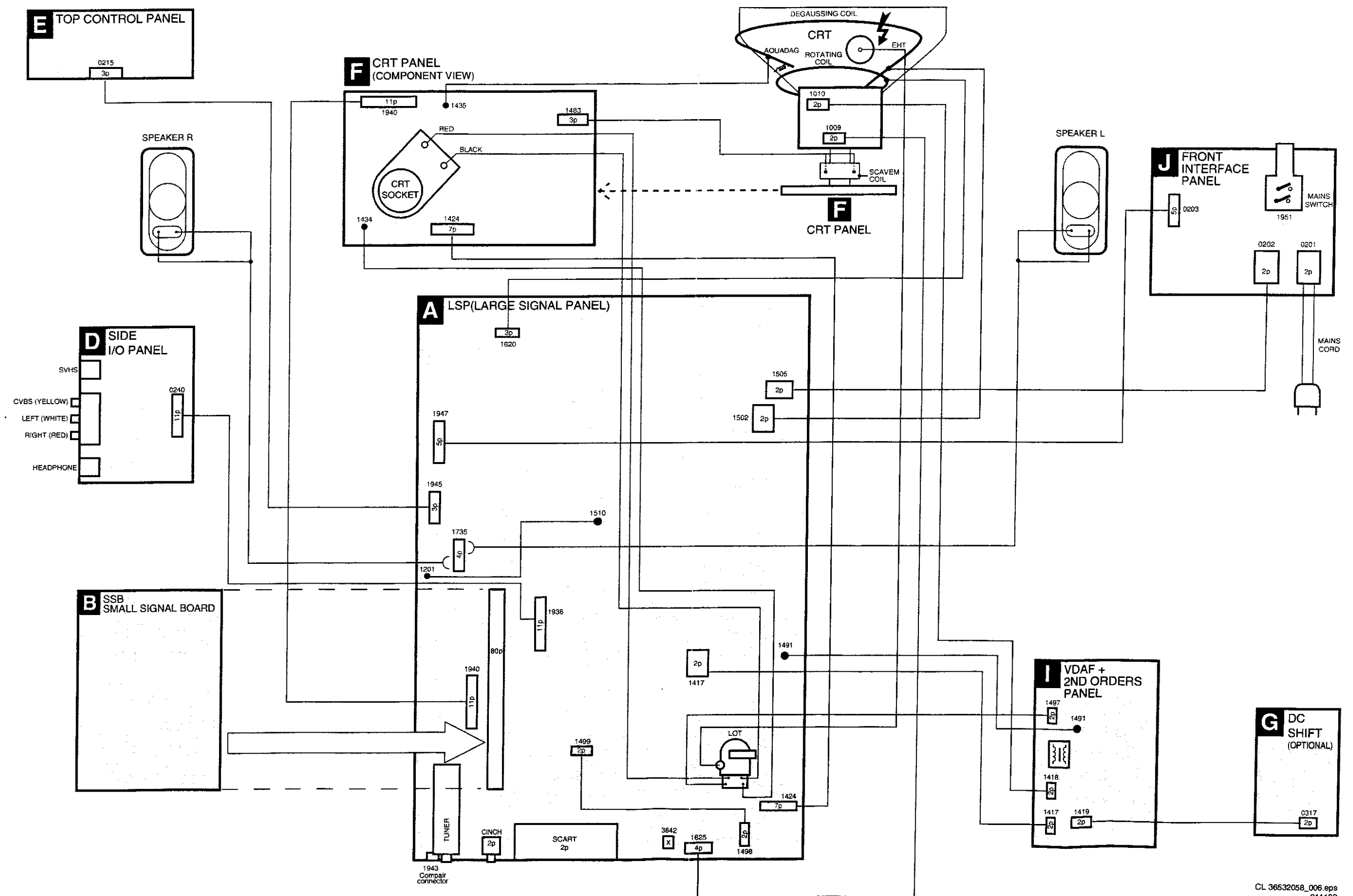
5.9 Software Downloading

In this chassis, you can **upgrade** the software via ComPair. You can find more information on how this procedure works in the ComPair file. It is possible that not all sets are equipped with the hardware, needed to make software upgrading

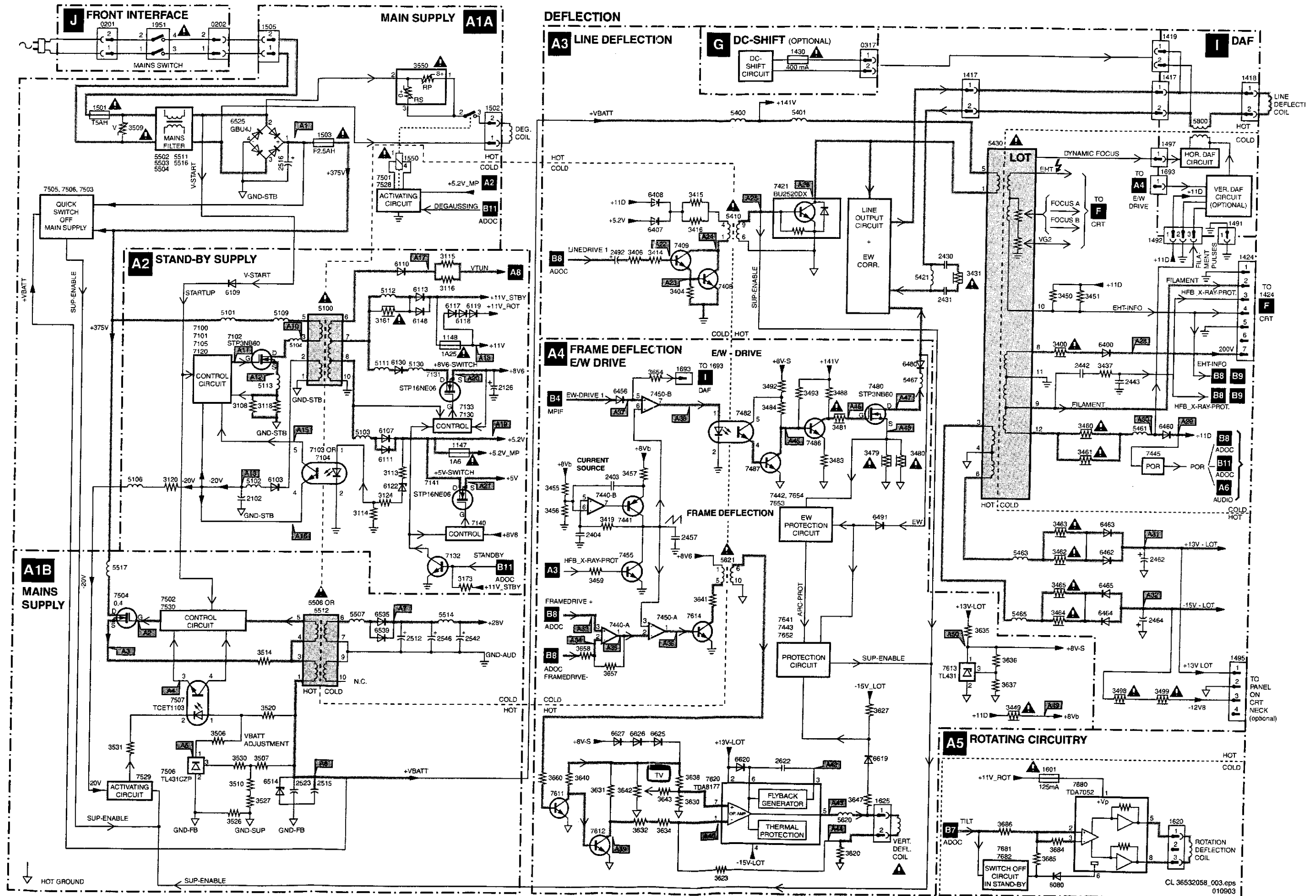
possible. To speed up the programming process the firmware of the ComPair interface can be upgraded. See paragraph "How To Order" for the order numbers.

6. Block Diagrams, Testpoint Overview, and Waveforms

Wiring Diagram

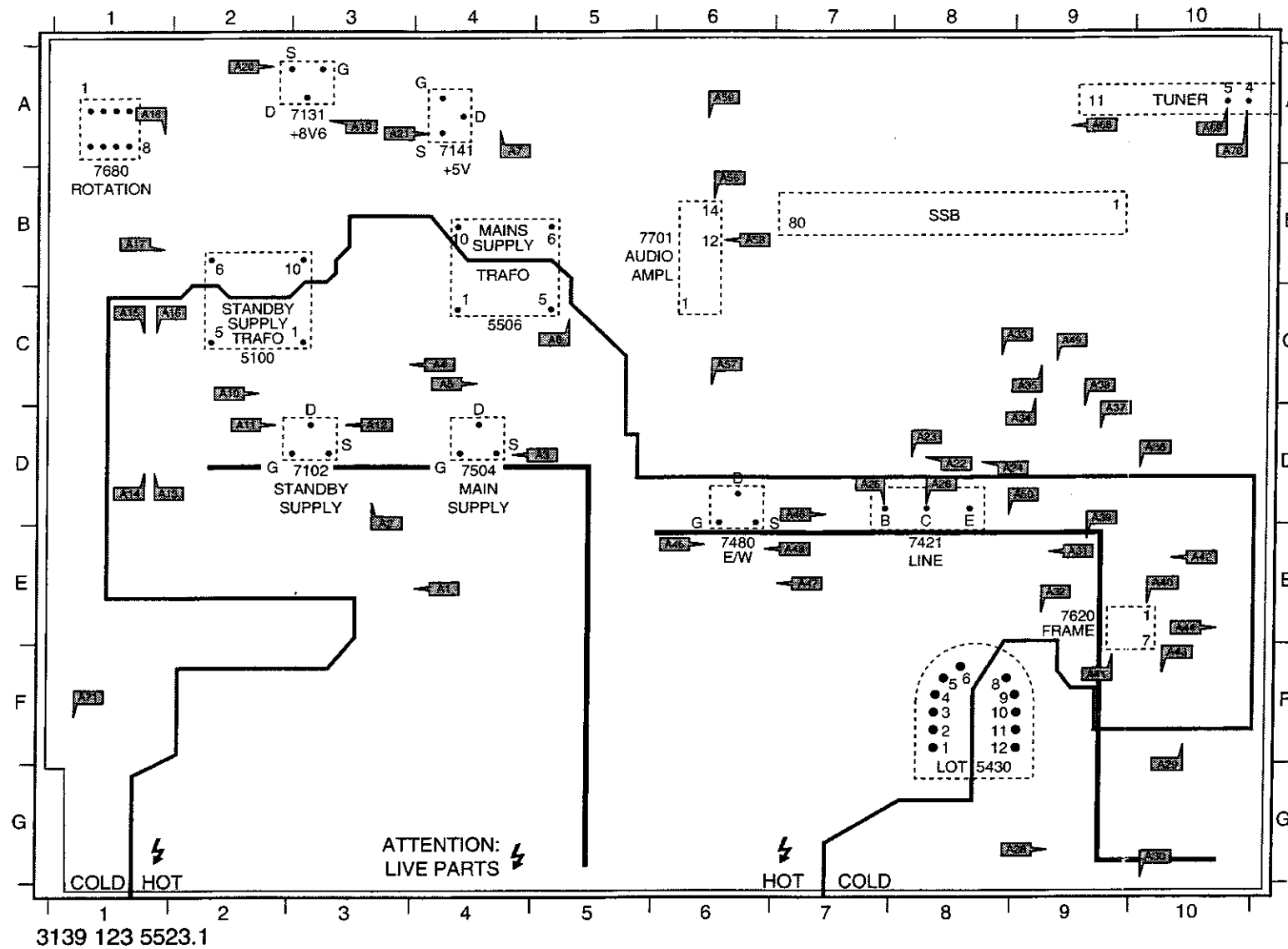


Block Diagram LSP Supply and Deflection

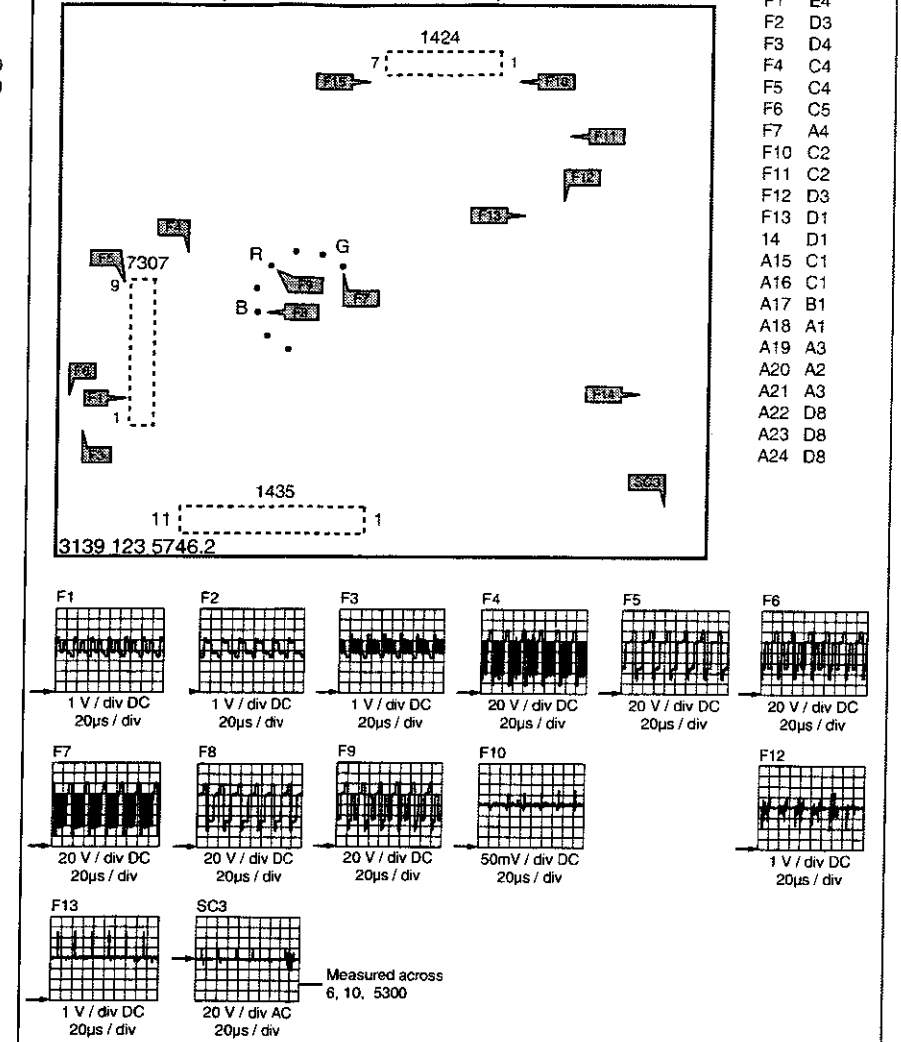


Testpoint Overview LSP and CRT

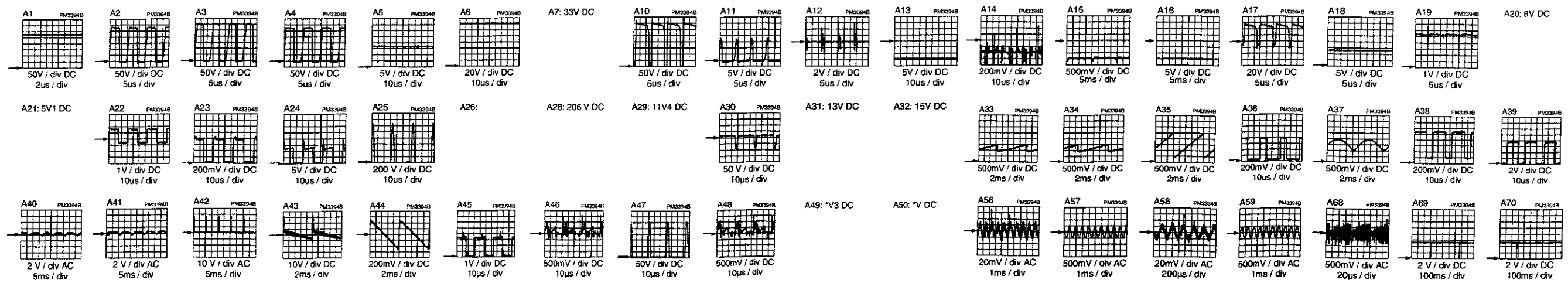
LSP COPPER TRACK SIDE



CRT PANEL (COPPER TRACK SIDE)



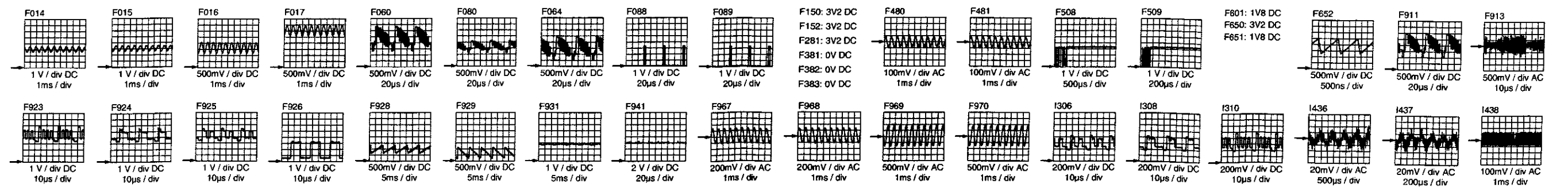
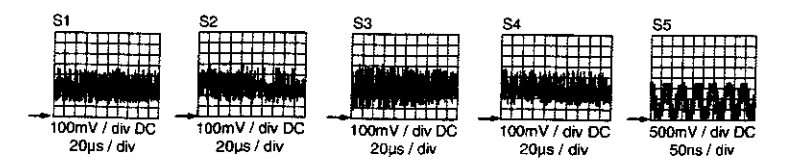
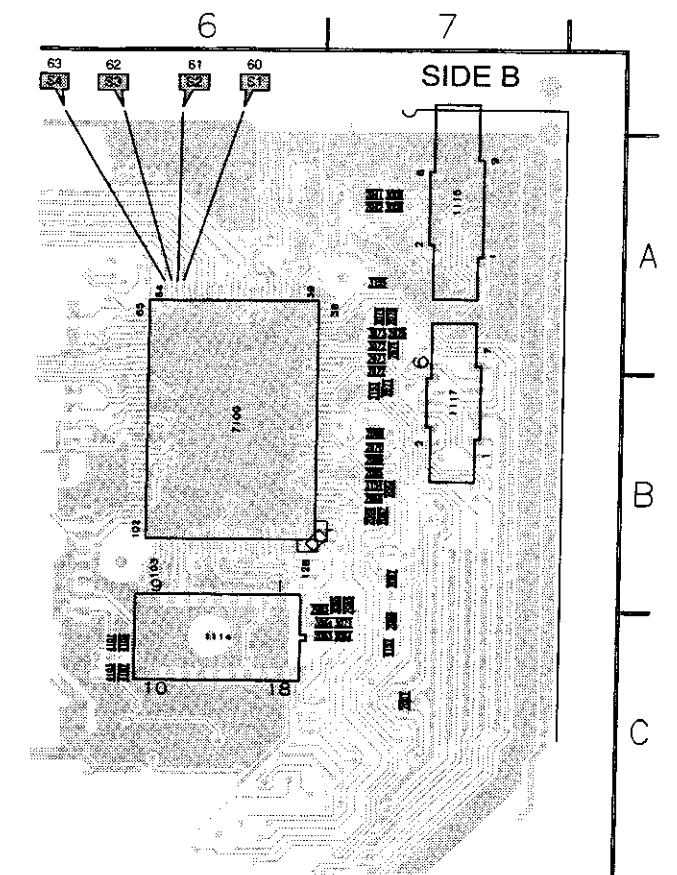
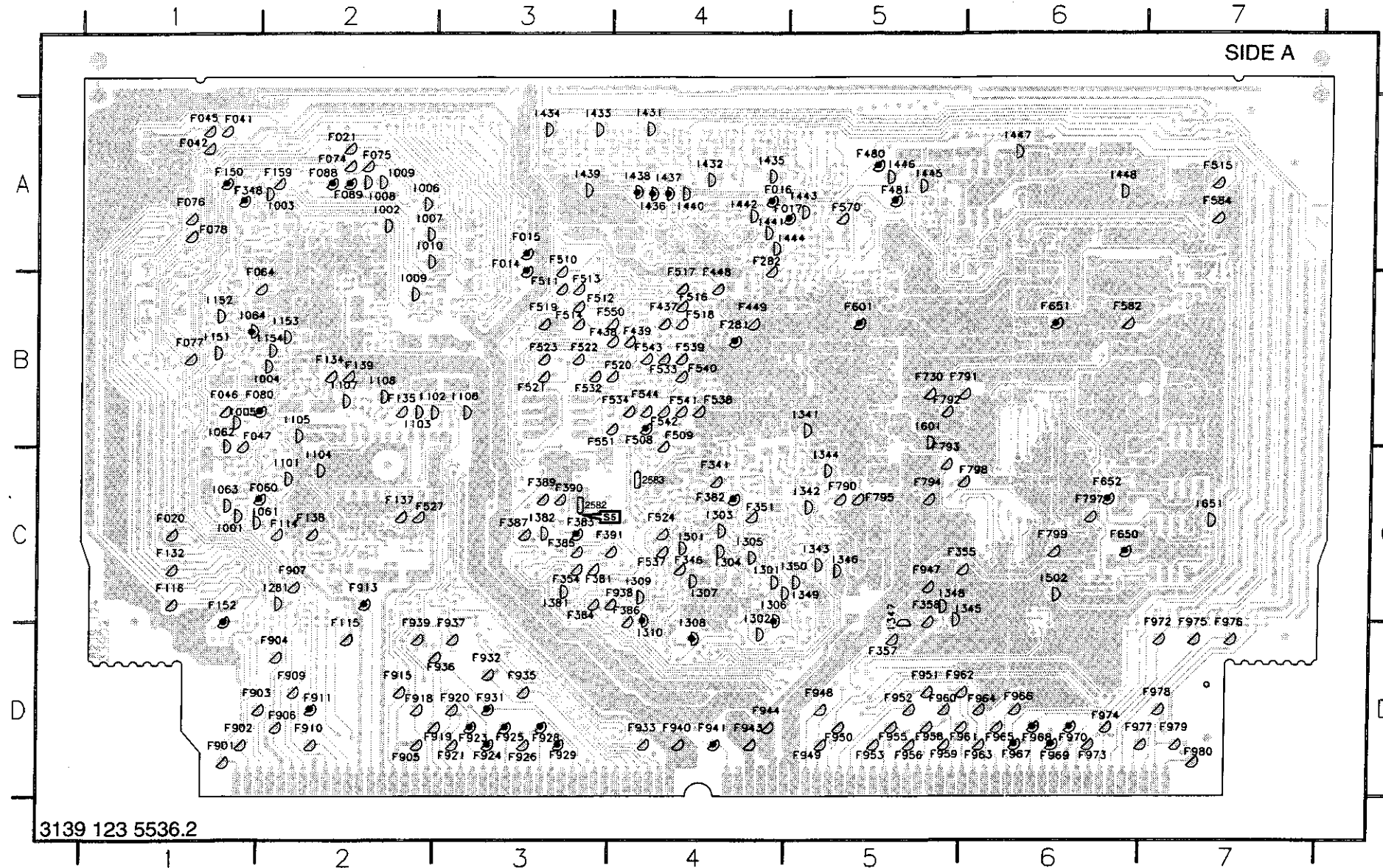
F1 E4
F2 D3
F3 D4
F4 C4
F5 C4
F6 C5
F7 A4
F10 C2
F11 C2
F12 D3
F13 D1
14 D1
A15 C1
A16 C1
A17 B1
A18 A1
A19 A3
A20 A2
A21 A3
A22 D8
A23 D8
A24 D8



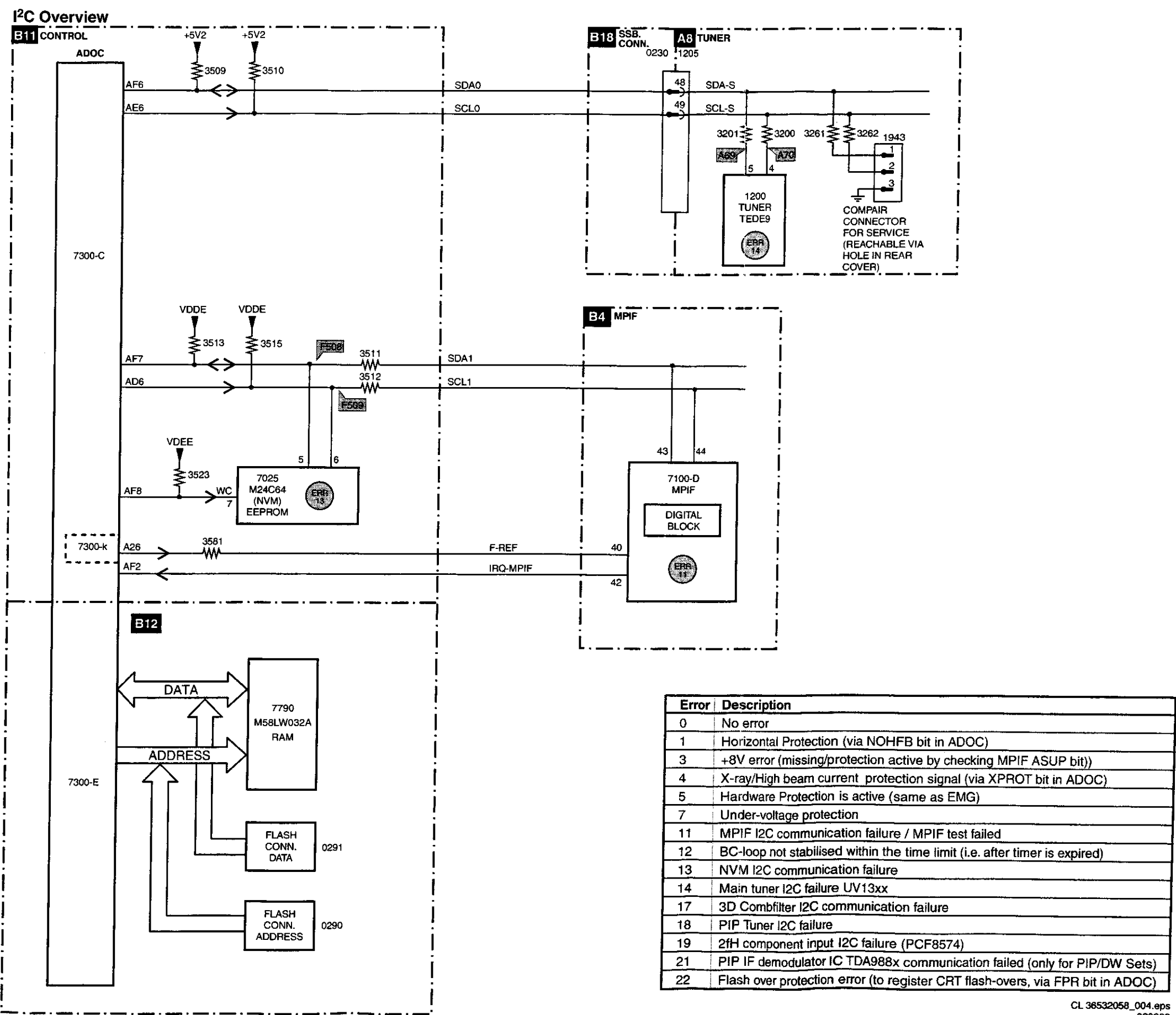
CL 36532058_014.eps
210803

Testpoint Overview SSB

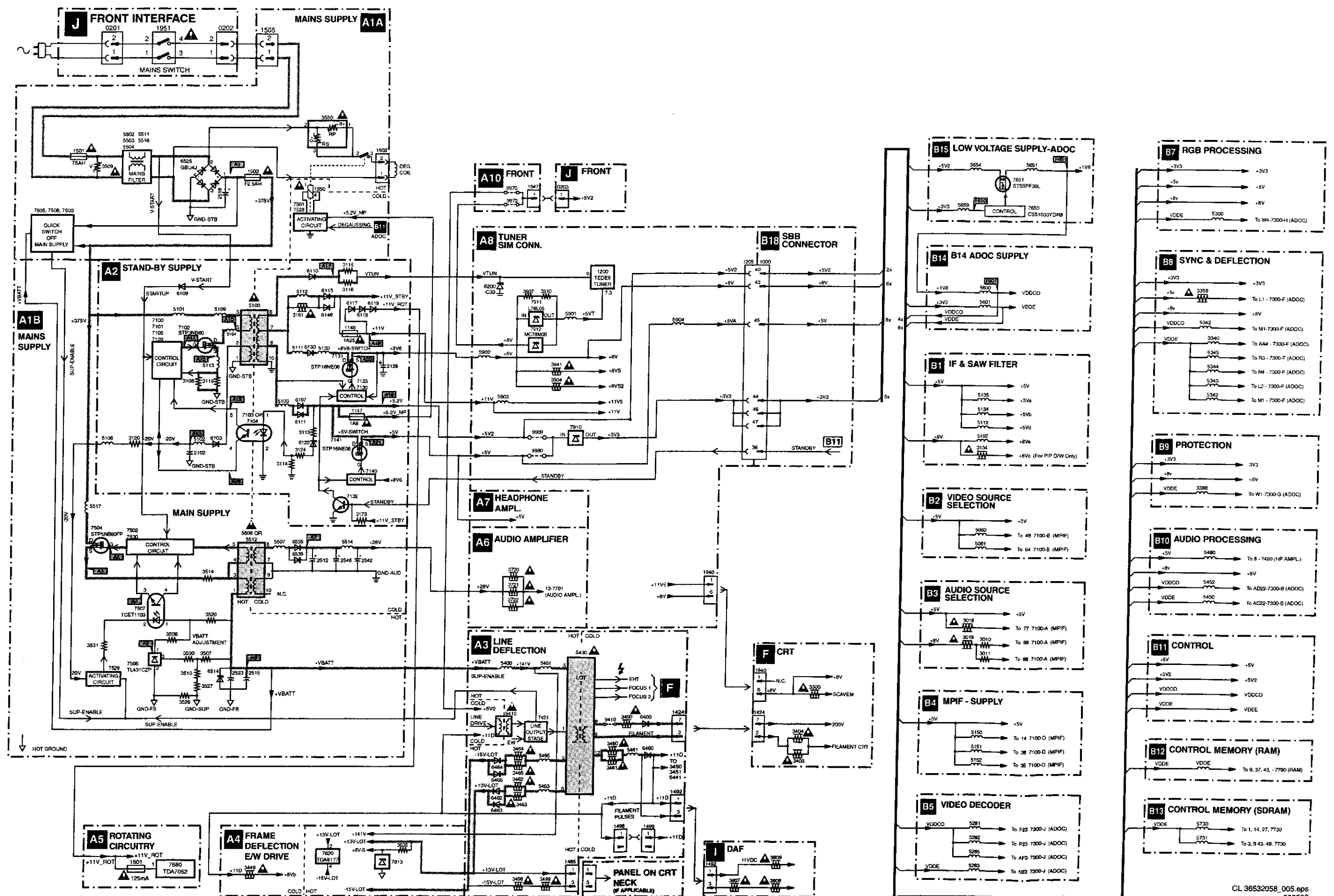
F009 A2	F064 B1	F134 B2	F351 C4	F390 C3	F512 B3	F527 C2	F551 B3	F794 C5	F910 D2	F929 D3	F947 C5	F962 D5	F976 D7	I009 B2	I108 B2	I308 D4	I381 C3	I442 A4
F014 A3	F074 A2	F135 B2	F354 C3	F391 C3	F513 B3	F532 B3	F570 A5	F795 C5	F911 D2	F931 D3	F948 D5	F963 D6	F977 D6	I010 A2	I151 B1	I309 C4	I382 C3	I443 A5
F015 A3	F075 A2	F137 C2	F355 C5	F437 B4	F514 B3	F533 B4	F582 B6	F797 C6	F913 C2	F932 D3	F949 D5	F964 D6	F978 D7	I061 C2	I152 B1	I310 D4	I431 A4	I444 A5
F016 A4	F076 A1	F138 C2	F357 D5	F438 B3	F515 A7	F534 B4	F584 A7	F798 C6	F915 D2	F933 D4	F950 D5	F965 D6	F979 D7	I062 B1	I153 B2	I341 B5	I432 A4	I445 A5
F017 A4	F077 B1	F139 B2	F358 C5	F439 B4	F516 B4	F537 C4	F601 B5	F799 C6	F918 D2	F935 D3	F951 D5	F966 D6	F980 D7	I063 C1	I154 B2	I342 C5	I433 A3	I446 A5
F020 C1	F078 A1	F150 A1	F381 C3	F448 B4	F517 B4	F538 B4	F650 C6	F901 D1	F919 D3	F936 D3	F952 D5	F967 D6	I001 C1	I064 B1	I281 C2	I343 C5	I434 A3	I447 A6
F021 A2	F080 B1	F152 C1	F382 C4	F449 B4	F518 B4	F539 B4	F651 B6	F902 D1	F920 D3	F937 D3	F953 D5	F968 D6	I002 A2	I101 C2	I301 C4	I344 C5	I435 A4	I448 A6
F041 A1	F088 A2	F159 A2	F383 C3	F480 A5	F519 B3	F540 B4	F652 C6	F903 D1	F921 D3	F938 C4	F955 D5	F969 D6	I003 A2	I102 B2	I302 C4	I345 C6	I436 A4	I501 C4
F042 A1	F089 A2	F281 B4	F384 C3	F481 A5	F520 B4	F541 B4	F730 B5	F904 D2	F923 D3	F939 D2	F956 D5	F970 D6	I004 B2	I103 B2	I303 C4	I346 C5	I437 A4	I502 C6
F045 A1	F114 C2	F282 A4	F385 C3	F508 B4	F521 B3	F542 B4	F790 C5	F905 D2	F924 D3	F940 D4	F958 D5	F972 D7	I005 B1	I104 C2	I304 C4	I347 C5	I438 A4	I601 B5
F046 B1	F115 D2	F341 C4	F386 C4	F509 B4	F522 B3	F543 B4	F791 B5	F906 D2	F925 D3	F941 D4	F959 D5	F973 D6	I006 A2	I105 B2	I305 C4	I348 C5	I439 A3	I651 C7
F047 B1	F116 C1	F346 C4	F387 C3	F510 A3	F523 B3	F544 B4	F792 B5	F907 C2	F926 D3	F943 D4	F960 D5	F974 D6	I007 A2	I106 B3	I306 C4	I349 C5	I440 A4	
F060 C2	F132 C1	F348 A1	F389 C3	F511 B3	F524 C4	F550 B3	F793 C5	F909 D2	F928 D3	F944 D4	F961 D6	F975 D7	I008 A2	I107 B2	I307 C4	I350 C5	I441 A4	



I2C Overview

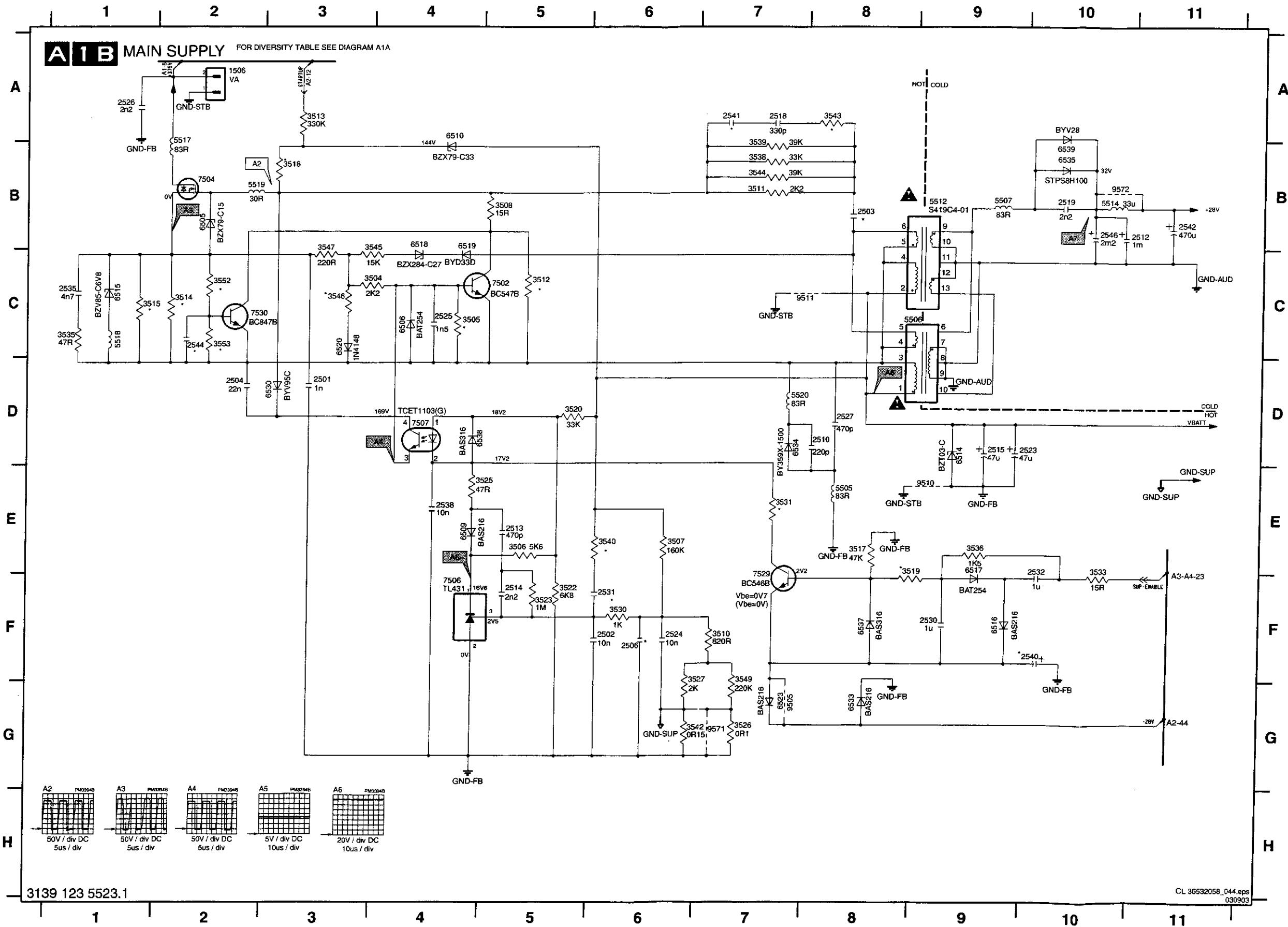


Supply Lines Overview



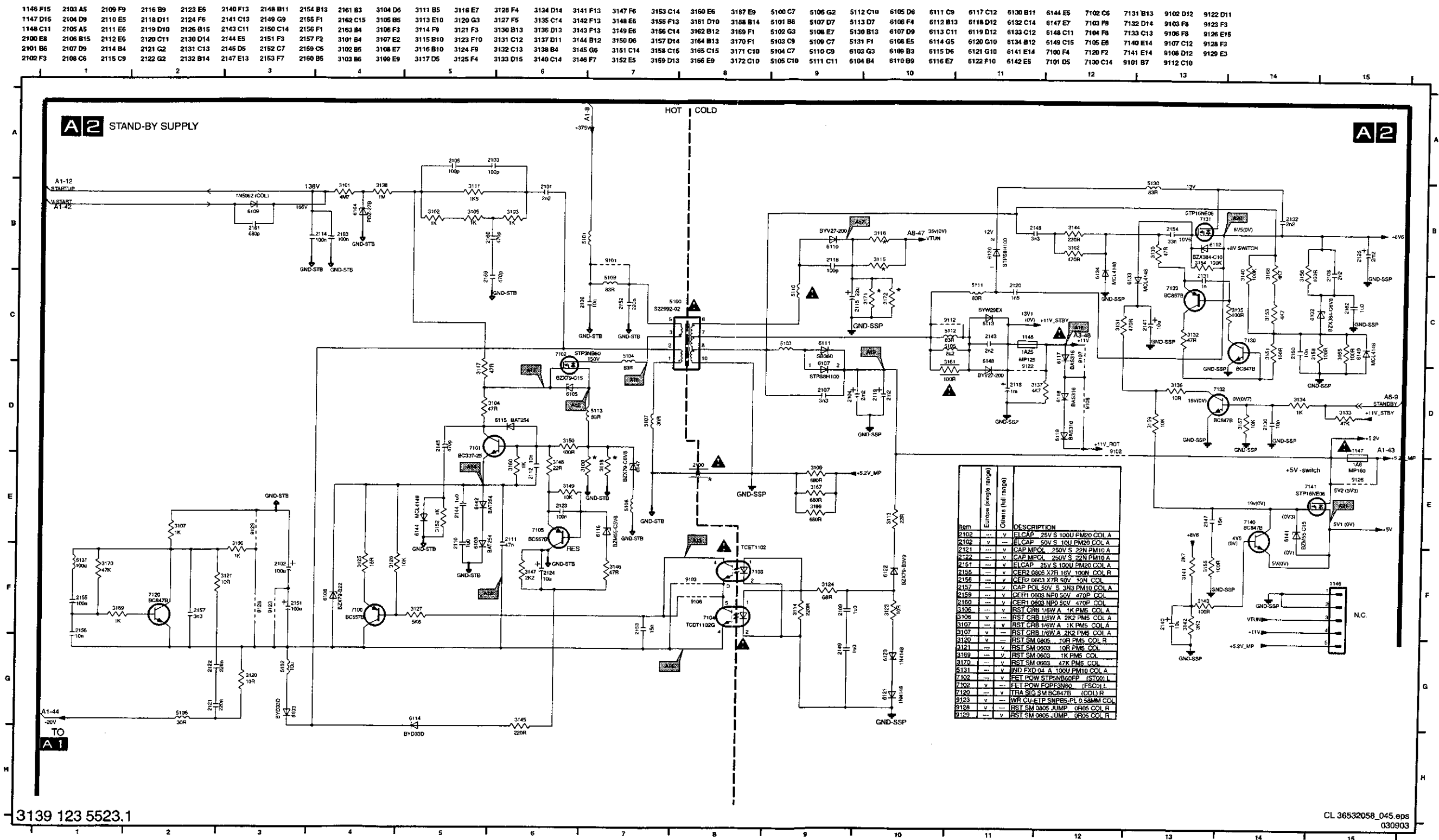
Year	Remarks	Boat	NAFTA	Other	Any single foreign	Any 1st foreign	DESCRIPTION
1990							DEL 5302T 343 250V IEC B
1991							FUSE 5200 HIT 340 250V IEC B
1992							ELC 4300 244 250V IEC B
1993							ELC 4300 244 250V IEC B
1994							ELC 4300 244 250V IEC B
1995							ELC 4300 244 250V IEC B
1996							ELC 4300 244 250V IEC B
1997							ELC 4300 244 250V IEC B
1998							ELC 4300 244 250V IEC B
1999							ELC 4300 244 250V IEC B
2000							ELC 4300 244 250V IEC B
2001							ELC 4300 244 250V IEC B
2002							ELC 4300 244 250V IEC B
2003							ELC 4300 244 250V IEC B
2004							ELC 4300 244 250V IEC B
2005							ELC 4300 244 250V IEC B
2006							ELC 4300 244 250V IEC B
2007							ELC 4300 244 250V IEC B
2008							ELC 4300 244 250V IEC B
2009							ELC 4300 244 250V IEC B
2010							ELC 4300 244 250V IEC B
2011							ELC 4300 244 250V IEC B
2012							ELC 4300 244 250V IEC B
2013							ELC 4300 244 250V IEC B
2014							ELC 4300 244 250V IEC B
2015							ELC 4300 244 250V IEC B
2016							ELC 4300 244 250V IEC B
2017							ELC 4300 244 250V IEC B
2018							ELC 4300 244 250V IEC B
2019							ELC 4300 244 250V IEC B
2020							ELC 4300 244 250V IEC B
2021							ELC 4300 244 250V IEC B
2022							ELC 4300 244 250V IEC B
2023							ELC 4300 244 250V IEC B
2024							ELC 4300 244 250V IEC B
2025							ELC 4300 244 250V IEC B
2026							ELC 4300 244 250V IEC B
2027							ELC 4300 244 250V IEC B
2028							ELC 4300 244 250V IEC B
2029							ELC 4300 244 250V IEC B
2030							ELC 4300 244 250V IEC B
2031							ELC 4300 244 250V IEC B
2032							ELC 4300 244 250V IEC B
2033							ELC 4300 244 250V IEC B
2034							ELC 4300 244 250V IEC B
2035							ELC 4300 244 250V IEC B
2036							ELC 4300 244 250V IEC B
2037							ELC 4300 244 250V IEC B
2038							ELC 4300 244 250V IEC B
2039							ELC 4300 244 250V IEC B
2040							ELC 4300 244 250V IEC B
2041							ELC 4300 244 250V IEC B
2042							ELC 4300 244 250V IEC B
2043							ELC 4300 244 250V IEC B
2044							ELC 4300 244 250V IEC B
2045							ELC 4300 244 250V IEC B
2046							ELC 4300 244 250V IEC B
2047							ELC 4300 244 250V IEC B
2048							ELC 4300 244 250V IEC B
2049							ELC 4300 244 250V IEC B
2050							ELC 4300 244 250V IEC B
2051							ELC 4300 244 250V IEC B
2052							ELC 4300 244 250V IEC B
2053							ELC 4300 244 250V IEC B
2054							ELC 4300 244 2

Large Signal Panel: Main Supply

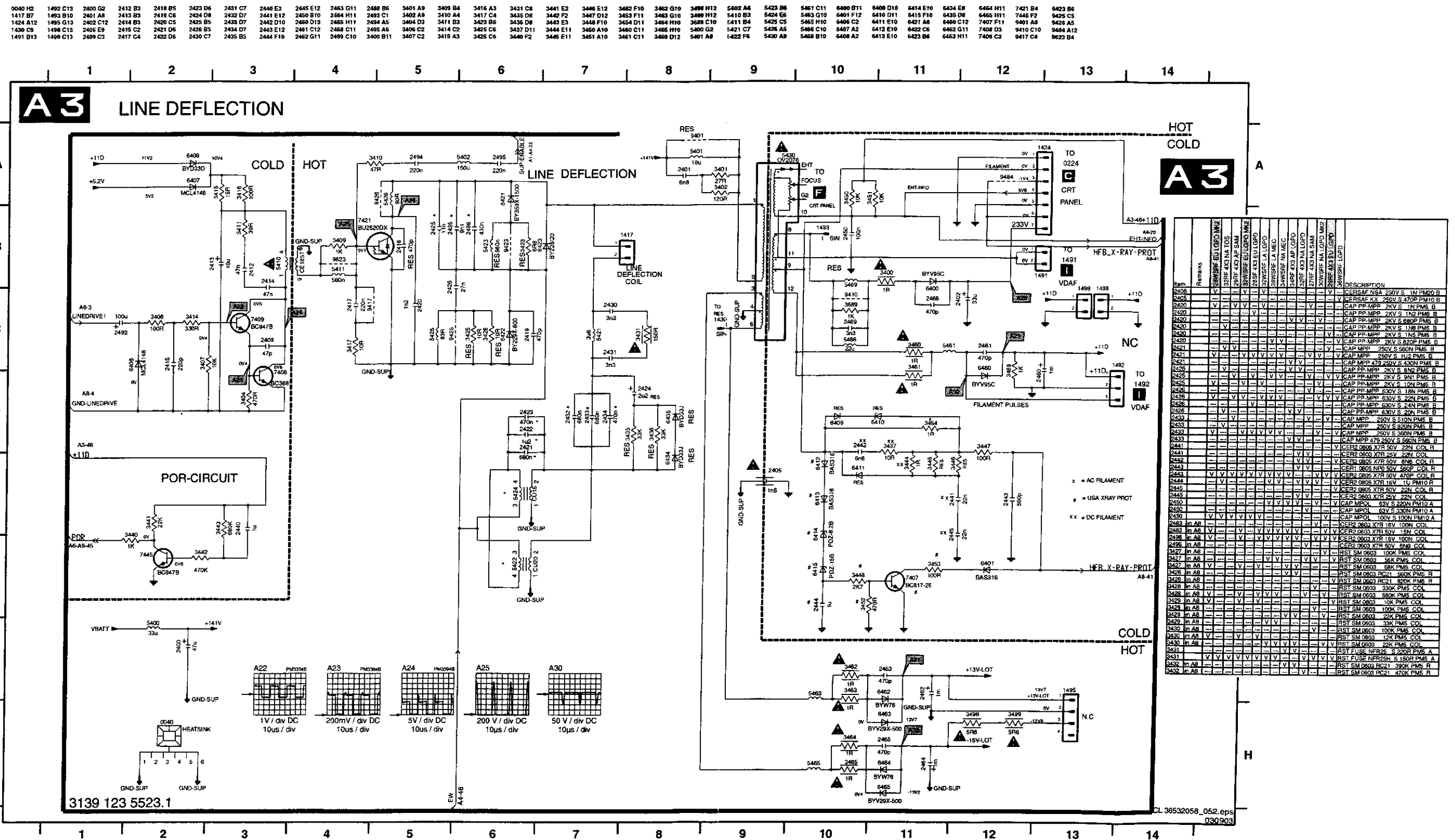


- 1506 A2
- 2501 D3
- 2502 F6
- 2503 B8
- 2504 D2
- 2506 F6
- 2510 D8
- 2512 B11
- 2513 E5
- 2514 F5
- 2515 D9
- 2518 A7
- 2519 B10
- 2523 D10
- 2524 F6
- 2525 C4
- 2526 A1
- 2527 D8
- 2530 F9
- 2531 F6
- 2532 F10
- 2535 C1
- 2538 E4
- 2540 F10
- 2541 A7
- 2542 B11
- 2544 C2
- 2546 B10
- 3504 C3
- 3505 C4
- 3506 E5
- 3507 E6
- 3508 B5
- 3510 F7
- 3511 B7
- 3512 C5
- 3513 A3
- 3514 C2
- 3515 C1
- 3517 E8
- 3518 B3
- 3519 F8
- 3520 D5
- 3522 F5
- 3523 F5
- 3525 E5
- 3526 G7
- 3527 F7
- 3530 F6
- 3531 E7
- 3533 F10
- 3535 C1
- 3536 E9
- 3538 B7
- 3539 B7
- 3540 E6
- 3542 G7
- 3543 A8
- 3544 B7
- 3545 C3
- 3546 C3
- 3547 C3
- 3549 F7
- 3552 C2
- 3553 C2
- 5505 E8
- 5506 C8
- 5507 B9
- 5512 B9
- 5514 B10
- 5517 A2
- 5518 C1
- 5519 B2
- 5520 D7
- 6505 B2
- 6506 C4
- 6509 E4
- 6510 A4
- 6514 D9
- 6515 C1
- 6516 F9
- 6517 E9
- 6518 B4
- 6519 B4
- 6520 C3
- 6523 G7
- 6530 D3
- 6533 G8
- 6534 D7
- 6535 B10
- 6537 F8
- 6538 D4
- 6539 B10
- 7502 C5
- 7504 B2
- 7506 F4
- 7507 D4
- 7529 F7
- 7530 C2
- 9505 G7
- 9510 E9
- 9511 C7
- 9571 G7
- 9572 B10

Large Signal Panel: Standby Supply



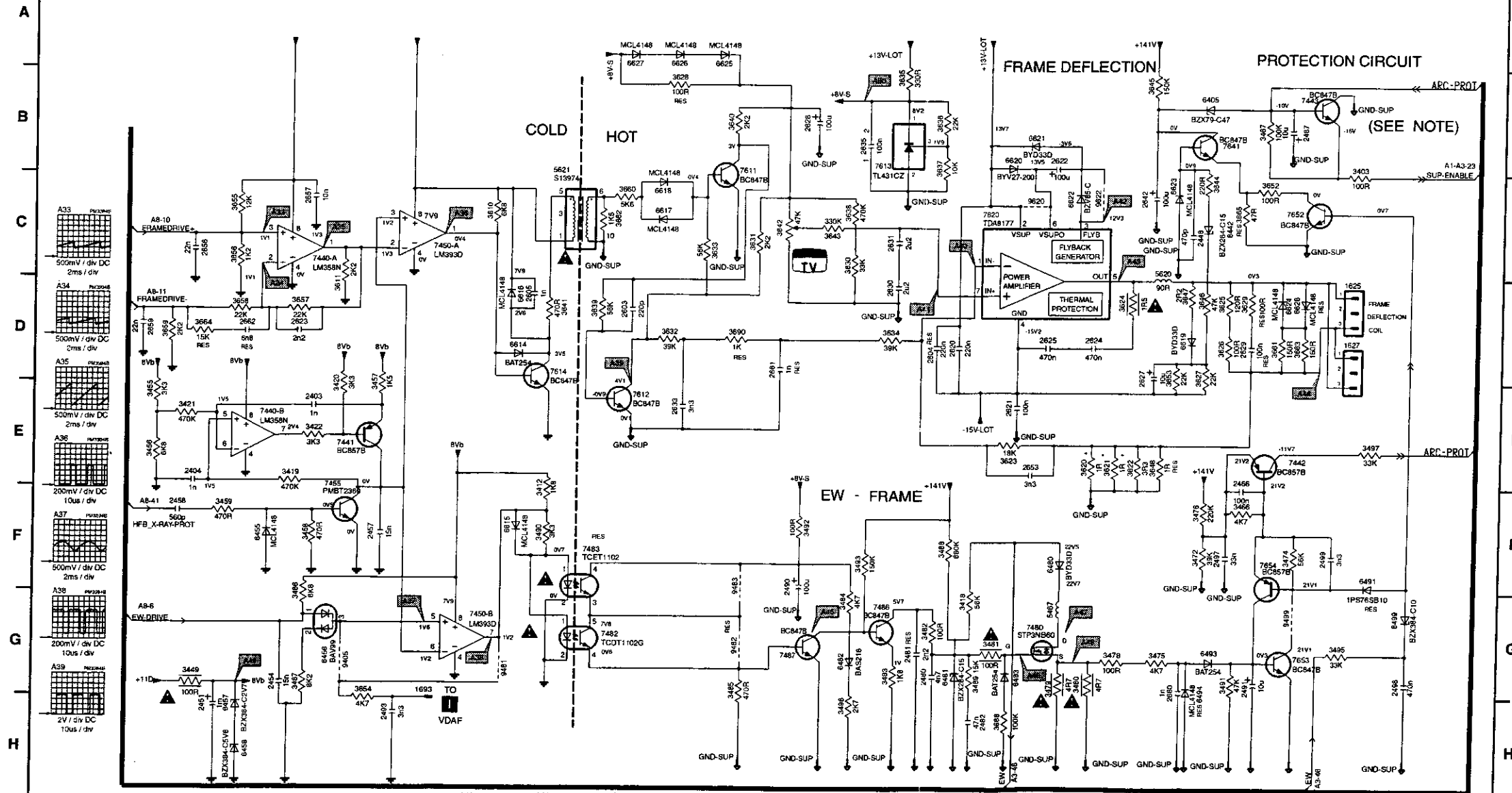
Large Signal Panel: Line Deflection



Large Signal Panel: Frame Deflection & E/W Drive

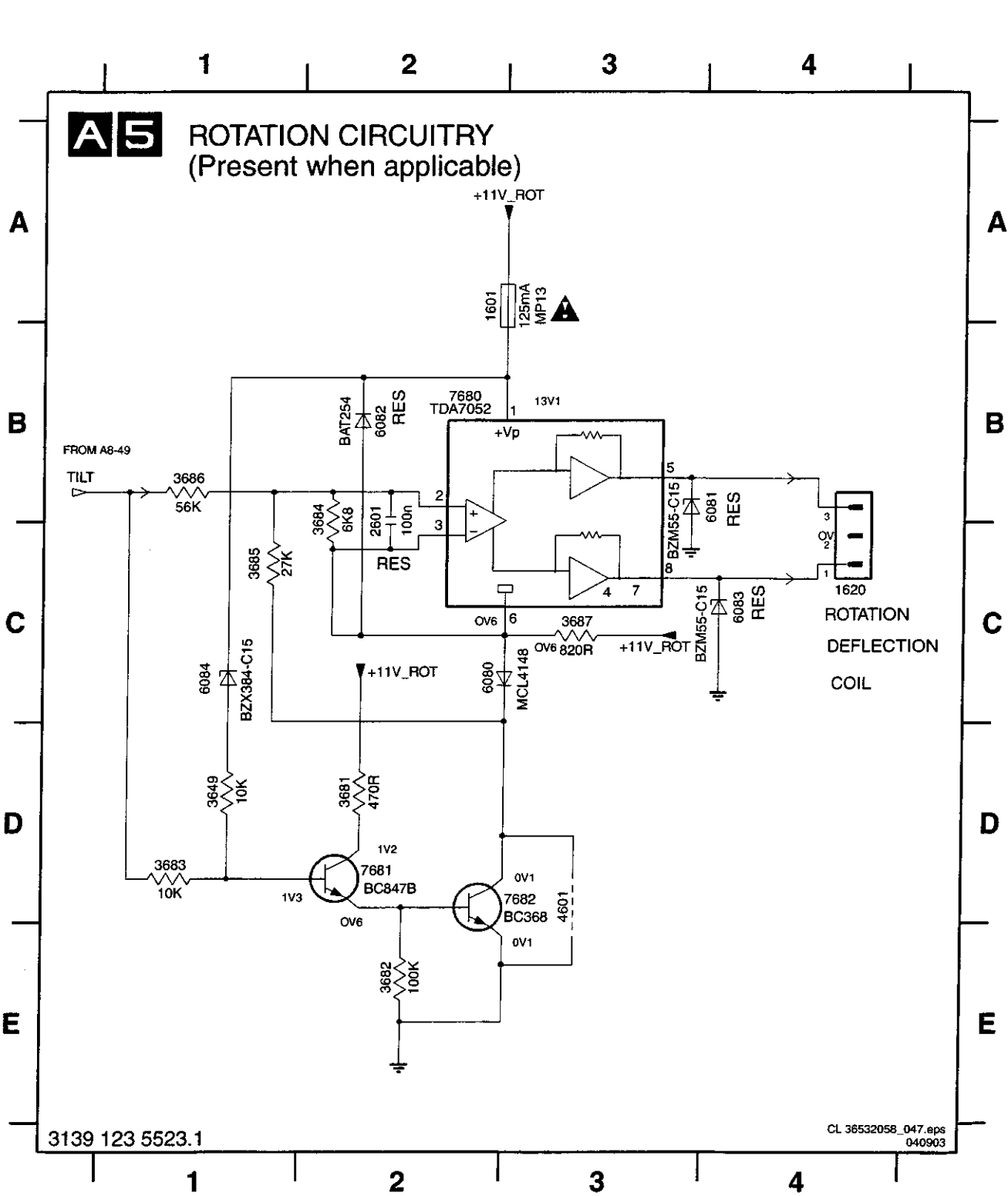
1625 D12	2457 F3	2491 G12	2620 D9	2629 D12	2657 C3	3419 E2	3458 F3	3478 G10	3486 G3	3495 G12	3633 E9	3631 C7	3636 D5	3647 D11	3658 D2	3686 H9	6454 G3	6457 H2	6493 G11	6619 D11	6627 A6	7450-B G4	7612 E5	9405 G9
1627 D12	2458 F1	2492 H3	2621 E9	2630 D8	2659 D1	3420 E3	3459 F2	3479 G10	3487 G3	3496 H8	3634 D10	3632 C6	3640 B7	3648 E11	3659 D1	3687 D7	6457 H2	6494 C11	6620 B8	6628 D12	7450-B G4	7613 B8	9406 G8	
1693 G4	2459 E12	2493 F11	2622 B10	2631 C8	2660 G11	3421 E1	3460 F12	3480 G10	3488 F9	3497 E17	3635 D11	3633 C6	3641 D5	3653 C12	3660 C5	3667 G10	6458 H2	6495 G13	6621 B10	6629 C10	7450-B G4	7614 D5	9407 G7	
2403 E3	2460 G8	2494 F12	2623 D3	2632 E6	2661 D7	3422 E3	3461 B12	3481 G9	3489 G8	3610 C4	3626 D11	3634 D8	3642 C7	3653 D11	3661 D12	3668 C11	6459 F10	6496 H10	6622 C10	6627 A6	7450-B G4	7615 C5	9408 G6	
2404 E2	2461 G8	2495 F12	2624 D10	2633 B8	2662 D2	3423 E2	3462 F11	3482 G8	3490 F5	3611 D3	3627 D11	3635 B8	3643 C8	3654 G2	3662 C8	3669 C11	6460 G6	6497 F5	6623 C11	6628 D12	7450-B G4	7616 B11	9409 G12	
2446 C11	2462 H9	2496 D9	2625 D10	2634 E11	2663 E1	3424 F12	3463 F11	3483 G8	3491 G11	3612 E10	3628 D12	3636 B8	3644 C11	3655 D2	3663 D12	3670 B11	6461 G6	6498 G11	6624 D12	6629 C10	7450-B G4	7617 C5	9410 G12	
2451 H2	2463 B12	2497 D5	2626 B7	2635 C2	2664 E2	3425 E10	3464 F11	3484 G8	3492 F7	3621 E10	3629 D12	3637 B8	3645 B11	3656 D2	3664 D2	3671 B11	6462 G6	6499 G11	6625 A7	6630 B11	7450-B G4	7618 C7	9411 G12	
2454 G2	2490 F7	2605 D5	2628 B7	2636 C2	2665 E2	3426 E9	3465 F11	3485 G7	3493 F8	3622 E10	3630 C8	3638 C8	3646 D11	3657 D3	3665 C11	3672 D3	6463 F2	6500 F13	6626 A6	6631 C11	7450-B G4	7619 C7	9412 G12	

A4 FRAME DEFLECTION & E/W DRIVE



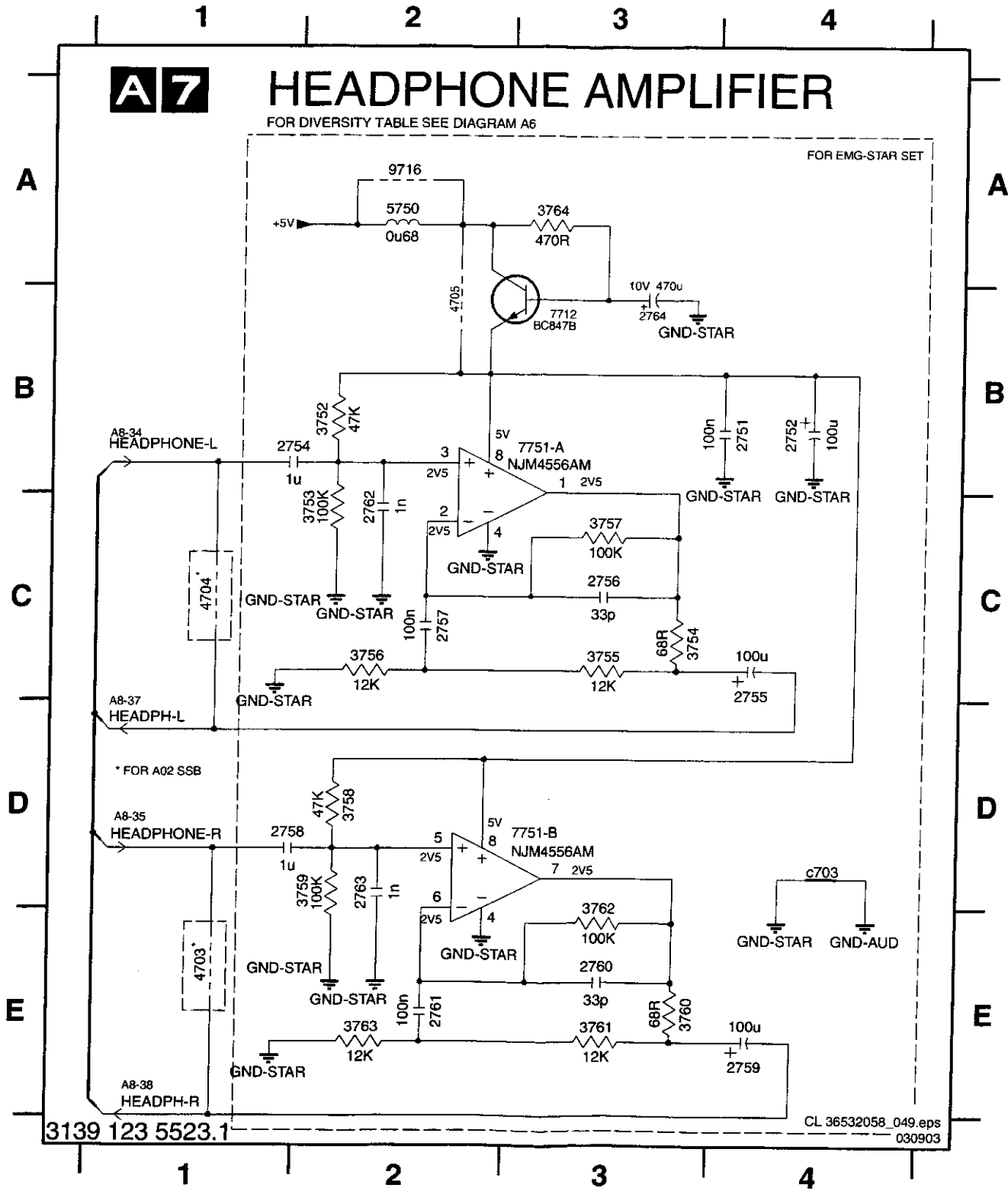
Large Signal Panel: Rotation Circuitry

1601 A2	3649 D1	3683 D1	3686 B1	6080 C2	6083 C4	7681 D2
1620 C4	3681 D2	3684 B2	3687 C3	6081 B3	6084 C1	7682 D3
2601 B2	3682 E2	3685 C1	4601 D3	6082 B2	7680 B2	



Large Signal Panel: Headphone Amplifier

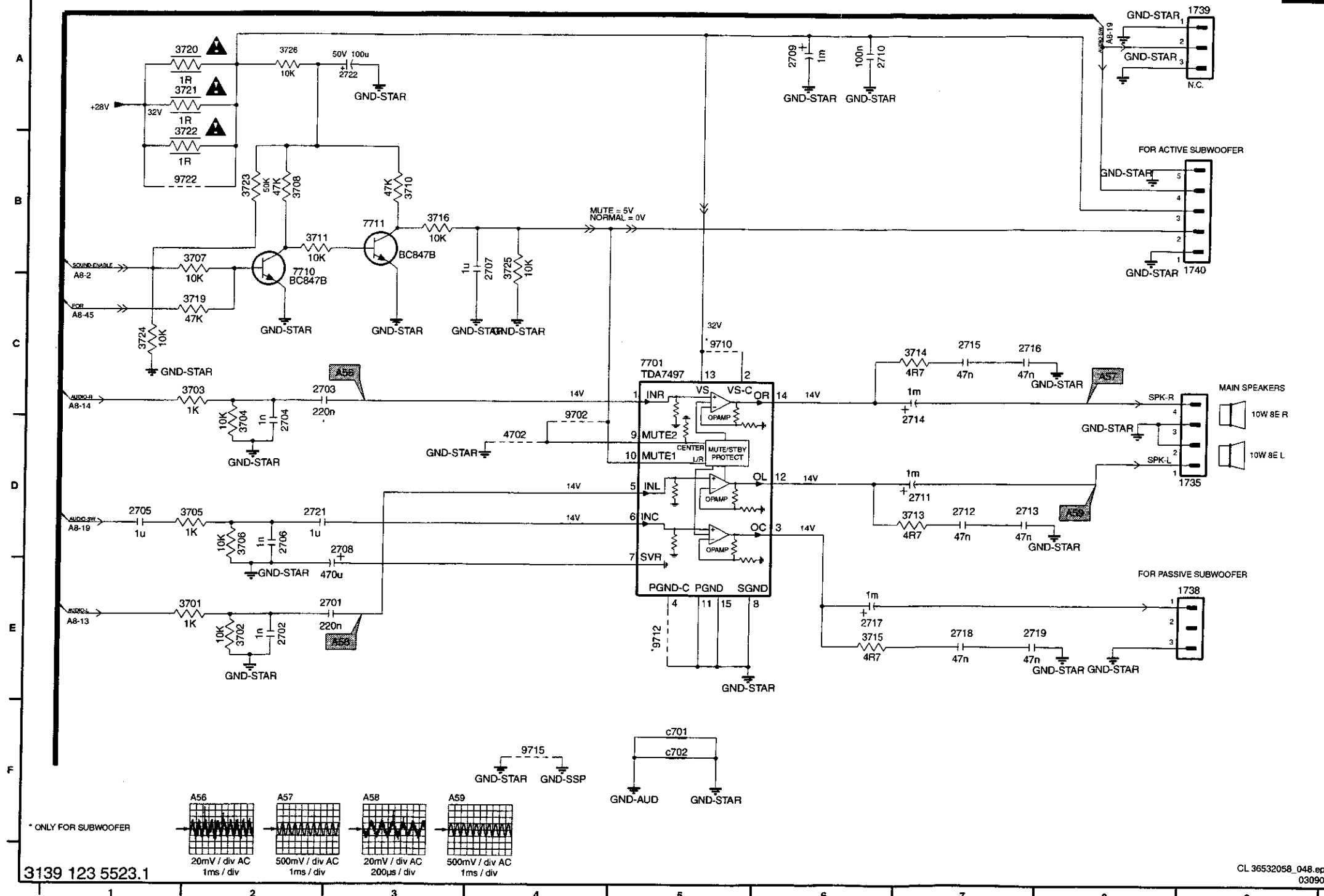
2751 B4	2756 C3	2760 E3	2764 B3	3755 C3	3759 D2	3763 E2	4705 B2	7751-B D3
2752 B4	2757 C2	2761 E2	3752 B2	3756 C2	3760 E3	3764 A3	5750 A2	9716 A2
2754 B1	2758 D1	2762 C2	3753 C2	3757 C3	3761 E3	4703 E1	7712 B3	c703 D4
2755 C4	2759 E4	2763 D2	3754 C3	3758 D2	3762 E3	4704 C1	7751-A B3	



Large Signal Panel: Audio Amplifier

A6 AUDIO AMPLIFIER

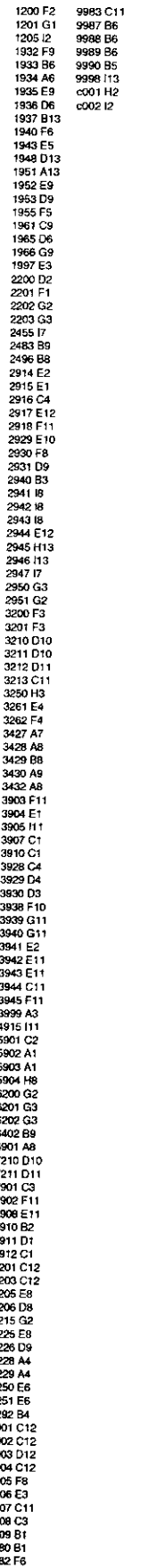
A6



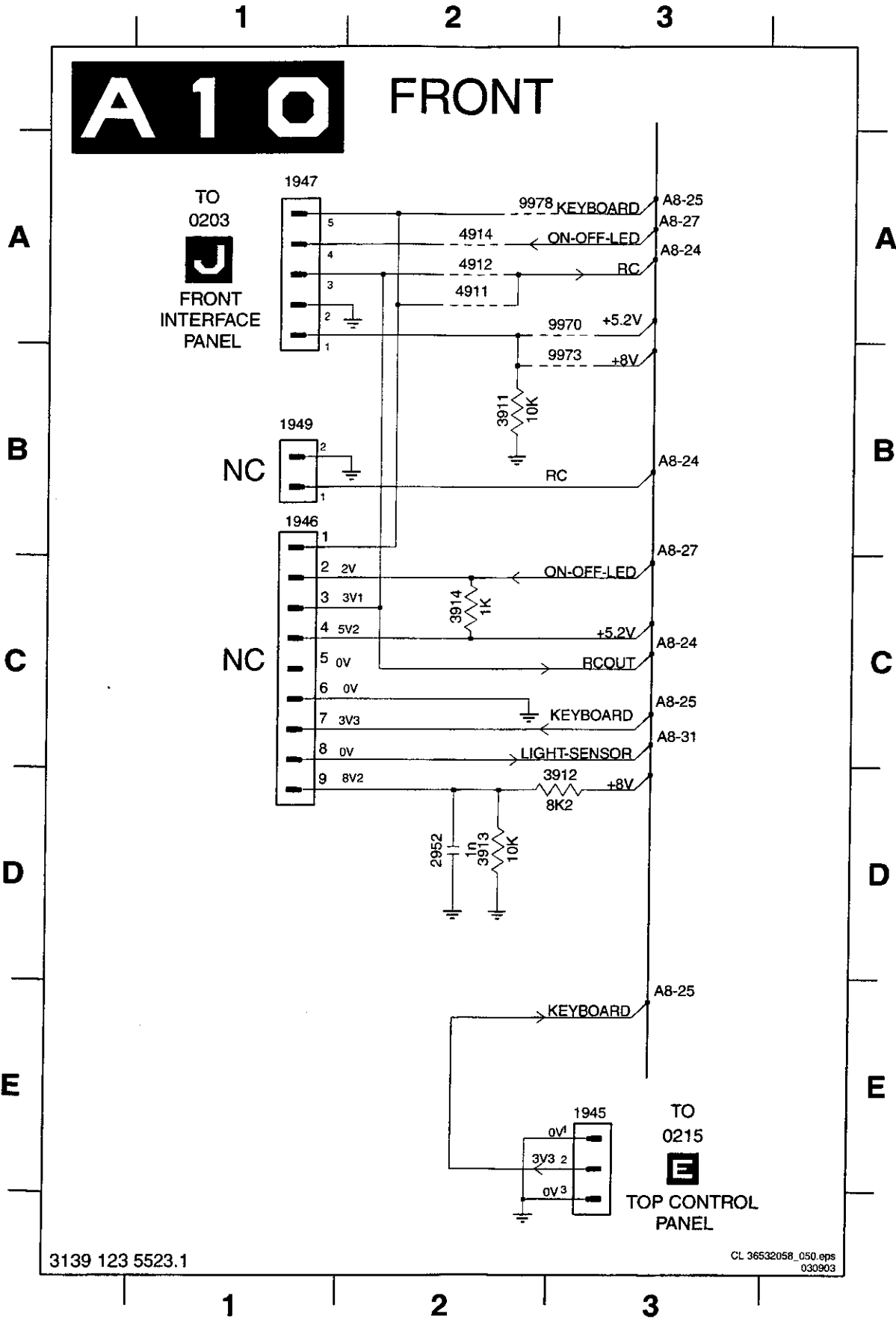
Item	Part	Value	Notes	Description
1738	CON	10V 3P M 2.50	5HB	CON 10V 3P M 2.50 5HB
1739	CON	10V 3P M 2.50	5HB	CON 10V 3P M 2.50 5HB
2701	RES	10K		RES 10K 10K 10K
2702	RES	10K		RES 10K 10K 10K
2703	RES	10K		RES 10K 10K 10K
2704	RES	10K		RES 10K 10K 10K
2705	RES	10K		RES 10K 10K 10K
2706	RES	10K		RES 10K 10K 10K
2707	RES	10K		RES 10K 10K 10K
2708	RES	10K		RES 10K 10K 10K
2709	RES	10K		RES 10K 10K 10K
2710	RES	10K		RES 10K 10K 10K
2711	RES	10K		RES 10K 10K 10K
2712	RES	10K		RES 10K 10K 10K
2713	RES	10K		RES 10K 10K 10K
2714	RES	10K		RES 10K 10K 10K
2715	RES	10K		RES 10K 10K 10K
2716	RES	10K		RES 10K 10K 10K
2717	RES	10K		RES 10K 10K 10K
2718	RES	10K		RES 10K 10K 10K
2719	RES	10K		RES 10K 10K 10K
2720	RES	10K		RES 10K 10K 10K
2721	RES	10K		RES 10K 10K 10K
2722	RES	10K		RES 10K 10K 10K
2723	RES	10K		RES 10K 10K 10K
2724	RES	10K		RES 10K 10K 10K
2725	RES	10K		RES 10K 10K 10K
2726	RES	10K		RES 10K 10K 10K
2727	RES	10K		RES 10K 10K 10K
2728	RES	10K		RES 10K 10K 10K
2729	RES	10K		RES 10K 10K 10K
2730	RES	10K		RES 10K 10K 10K
2731	RES	10K		RES 10K 10K 10K
2732	RES	10K		RES 10K 10K 10K
2733	RES	10K		RES 10K 10K 10K
2734	RES	10K		RES 10K 10K 10K
2735	RES	10K		RES 10K 10K 10K
2736	RES	10K		RES 10K 10K 10K
2737	RES	10K		RES 10K 10K 10K
2738	RES	10K		RES 10K 10K 10K
2739	RES	10K		RES 10K 10K 10K
2740	RES	10K		RES 10K 10K 10K
2741	RES	10K		RES 10K 10K 10K
2742	RES	10K		RES 10K 10K 10K
2743	RES	10K		RES 10K 10K 10K
2744	RES	10K		RES 10K 10K 10K
2745	RES	10K		RES 10K 10K 10K
2746	RES	10K		RES 10K 10K 10K
2747	RES	10K		RES 10K 10K 10K
2748	RES	10K		RES 10K 10K 10K
2749	RES	10K		RES 10K 10K 10K
2750	RES	10K		RES 10K 10K 10K
2751	RES	10K		RES 10K 10K 10K
2752	RES	10K		RES 10K 10K 10K
2753	RES	10K		RES 10K 10K 10K
2754	RES	10K		RES 10K 10K 10K
2755	RES	10K		RES 10K 10K 10K
2756	RES	10K		RES 10K 10K 10K
2757	RES	10K		RES 10K 10K 10K
2758	RES	10K		RES 10K 10K 10K
2759	RES	10K		RES 10K 10K 10K
2760	RES	10K		RES 10K 10K 10K
2761	RES	10K		RES 10K 10K 10K
2762	RES	10K		RES 10K 10K 10K
2763	RES	10K		RES 10K 10K 10K
2764	RES	10K		RES 10K 10K 10K
2765	RES	10K		RES 10K 10K 10K
2766	RES	10K		RES 10K 10K 10K
2767	RES	10K		RES 10K 10K 10K
2768	RES	10K		RES 10K 10K 10K
2769	RES	10K		RES 10K 10K 10K
2770	RES	10K		RES 10K 10K 10K
2771	RES	10K		RES 10K 10K 10K
2772	RES	10K		RES 10K 10K 10K
2773	RES	10K		RES 10K 10K 10K
2774	RES	10K		RES 10K 10K 10K
2775	RES	10K		RES 10K 10K 10K
2776	RES	10K		RES 10K 10K 10K
2777	RES	10K		RES 10K 10K 10K
2778	RES	10K		RES 10K 10K 10K
2779	RES	10K		RES 10K 10K 10K
2780	RES	10K		RES 10K 10K 10K
2781	RES	10K		RES 10K 10K 10K
2782	RES	10K		RES 10K 10K 10K
2783	RES	10K		RES 10K 10K 10K
2784	RES	10K		RES 10K 10K 10K
2785	RES	10K		RES 10K 10K 10K
2786	RES	10K		RES 10K 10K 10K
2787	RES	10K		RES 10K 10K 10K
2788	RES	10K		RES 10K 10K 10K
2789	RES	10K		RES 10K 10K 10K
2790	RES	10K		RES 10K 10K 10K
2791	RES	10K		RES 10K 10K 10K
2792	RES	10K		RES 10K 10K 10K
2793	RES	10K		RES 10K 10K 10K
2794	RES	10K		RES 10K 10K 10K
2795	RES	10K		RES 10K 10K 10K
2796	RES	10K		RES 10K 10K 10K
2797	RES	10K		RES 10K 10K 10K
2798	RES	10K		RES 10K 10K 10K
2799	RES	10K		RES 10K 10K 10K
2800	RES	10K		RES 10K 10K 10K

1735 D8
1738 E8
1739 A8
1740 B8
2701 E3
2702 E2
2703 C2
2704 D2
2705 D1
2706 D2
2707 B4
2708 D3
2709 A6
2710 A6
2711 D7
2712 D7
2713 D7
2714 C7
2715 C7
2716 C7
2717 E6
2718 E7
2719 E7
2721 D2
2722 A3
3701 E2
3702 E2
3703 C2
3704 D2
3705 D2
3706 D2
3707 B2
3708 B2
3710 B3
3711 B2
3713 D7
3714 C7
3715 E6
3716 B3
3719 C2
3720 A1
3721 A1
3722 B1
3723 B2
3724 C1
3725 B4
3726 A2
4702 D4
7701 C5
7710 C2
7711 B3
9702 D4
9710 C5
9712 E5
9715 F4
9722 B1
c701 F5
c702 F5

A 8 TUNER SIM CONNECTOR (FEMALE)



Large Signal Panel: Front

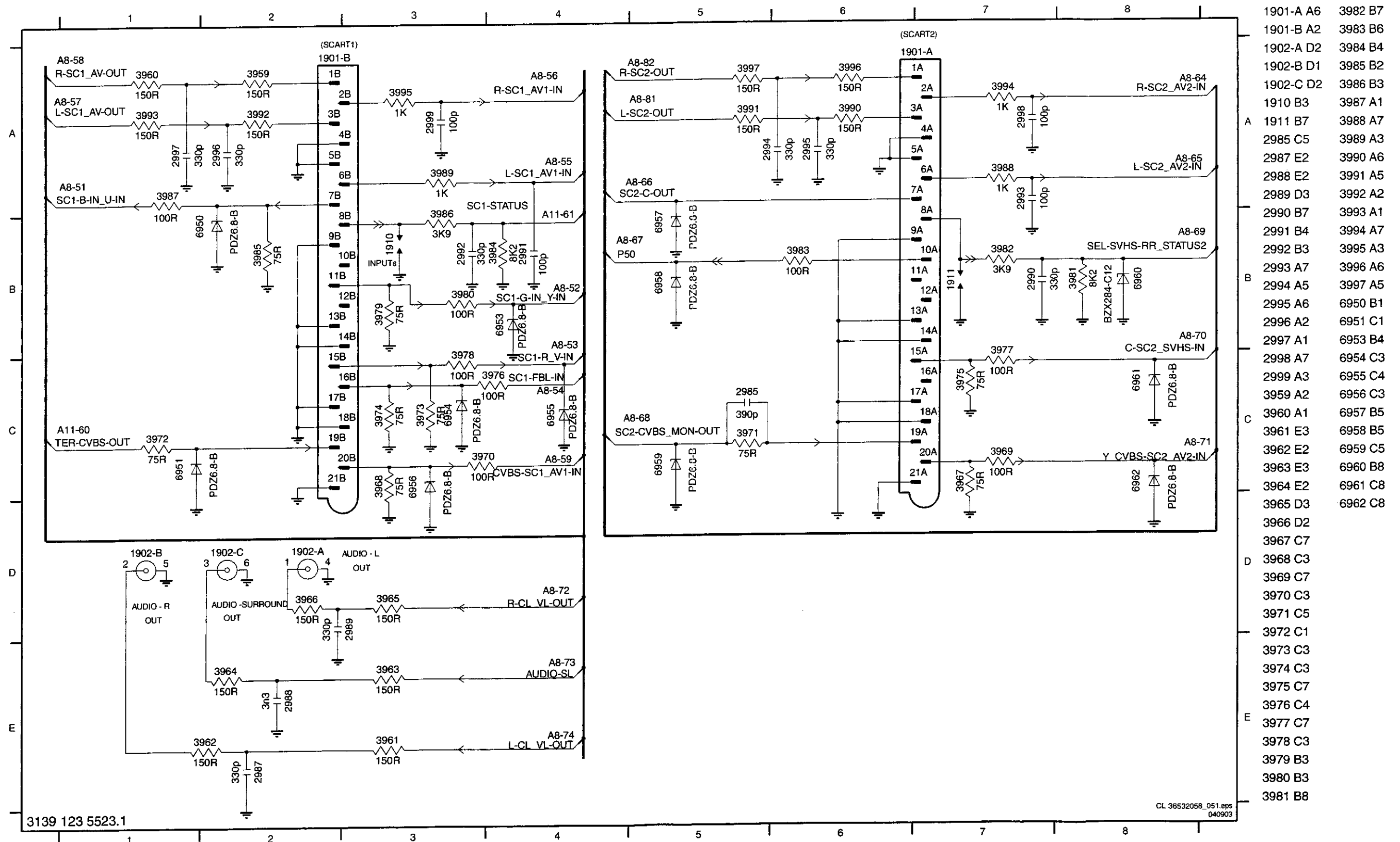


- 1945 E3
- 1946 B1
- 1947 A1
- 1949 B1
- 2952 D2
- 3911 B2
- 3912 D3
- 3913 D2
- 3914 C2
- 4911 A2
- 4912 A2
- 4914 A2
- 9970 A3
- 9973 B3
- 9978 A2

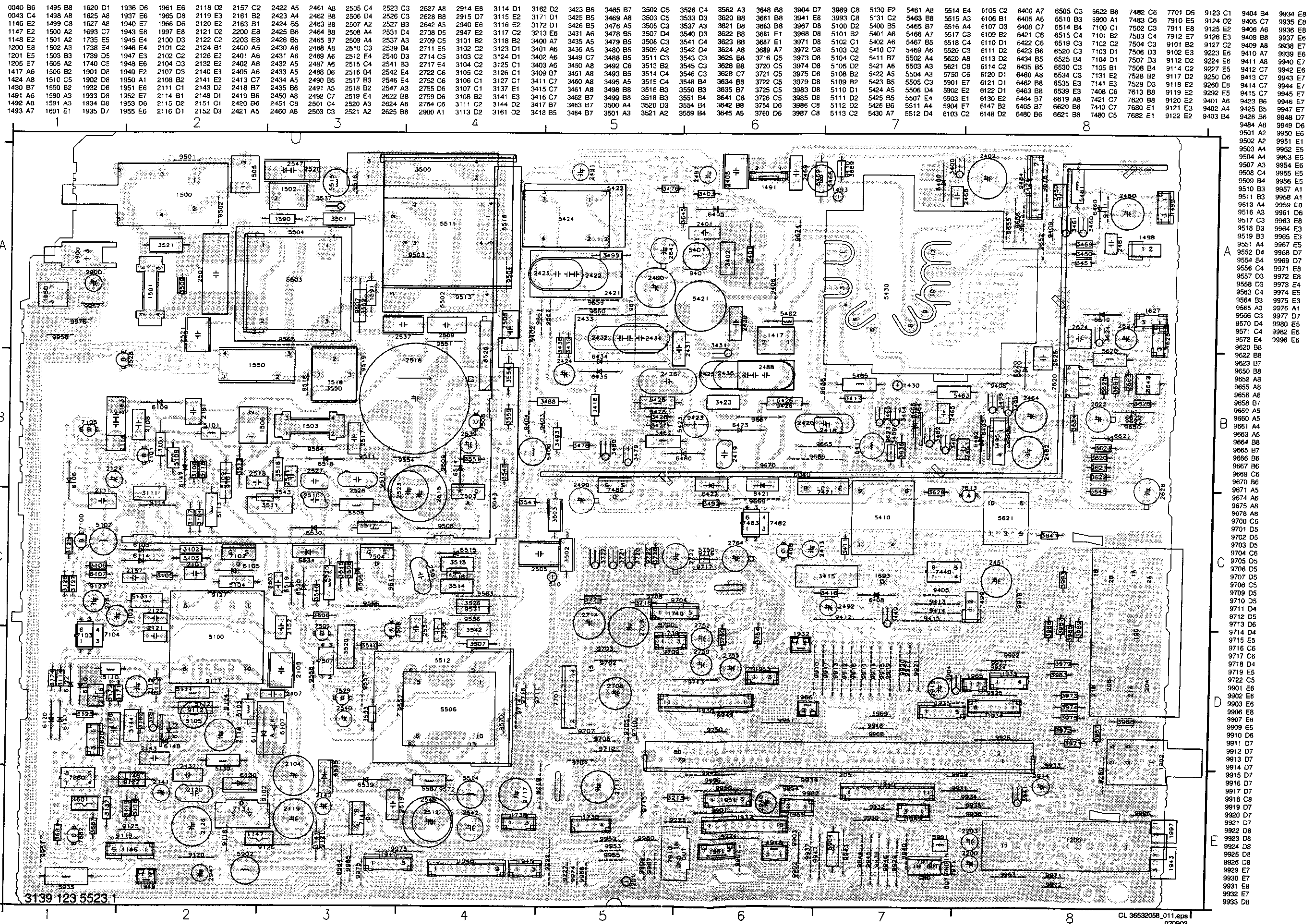
Personal Notes:

Handwritten notes area with horizontal lines.

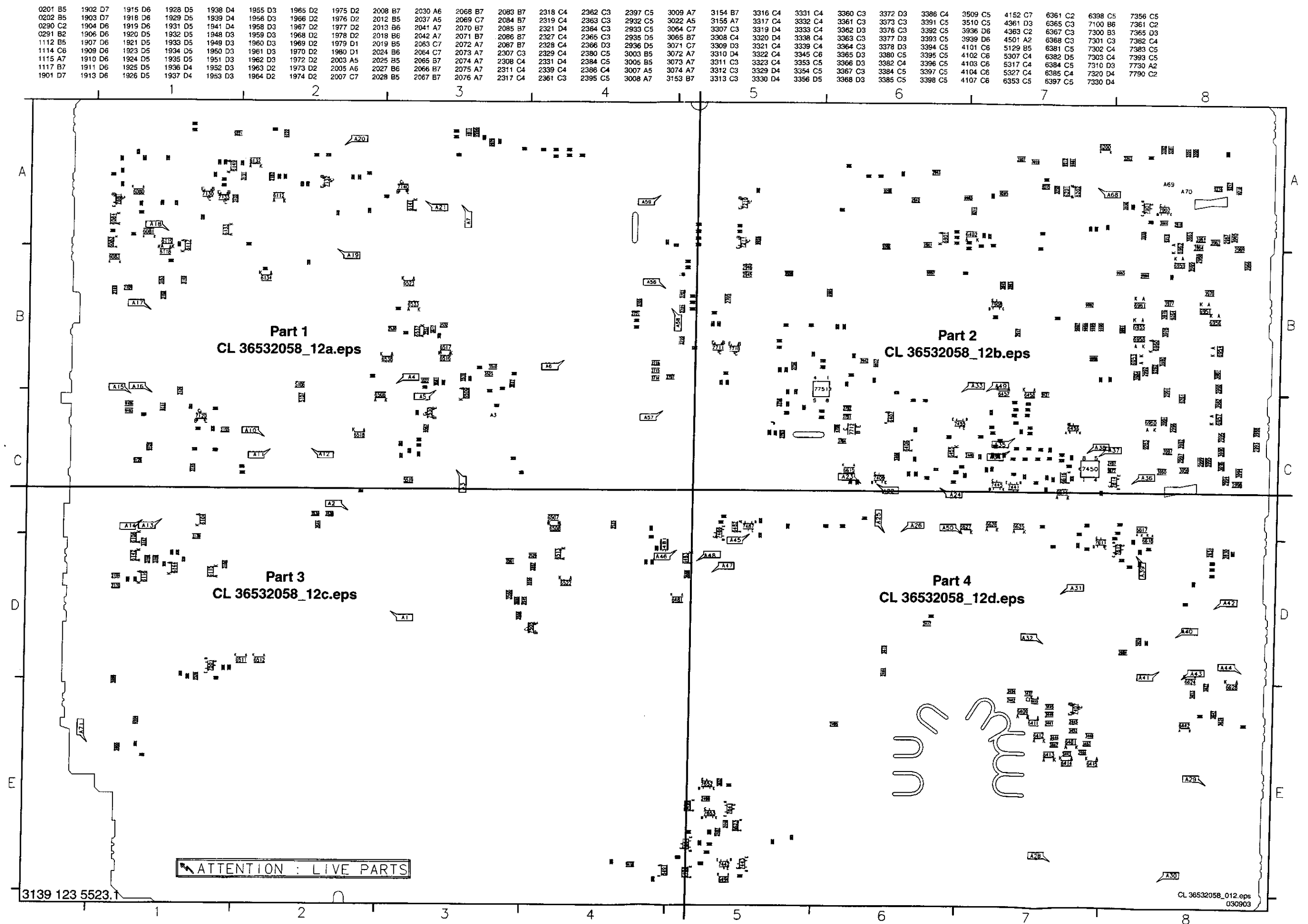
Large Signal Panel: Inputs/Outputs

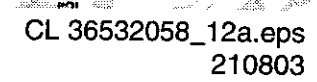
A 1 1 INPUTS/OUTPUTS

Layout LSP (Top Side)

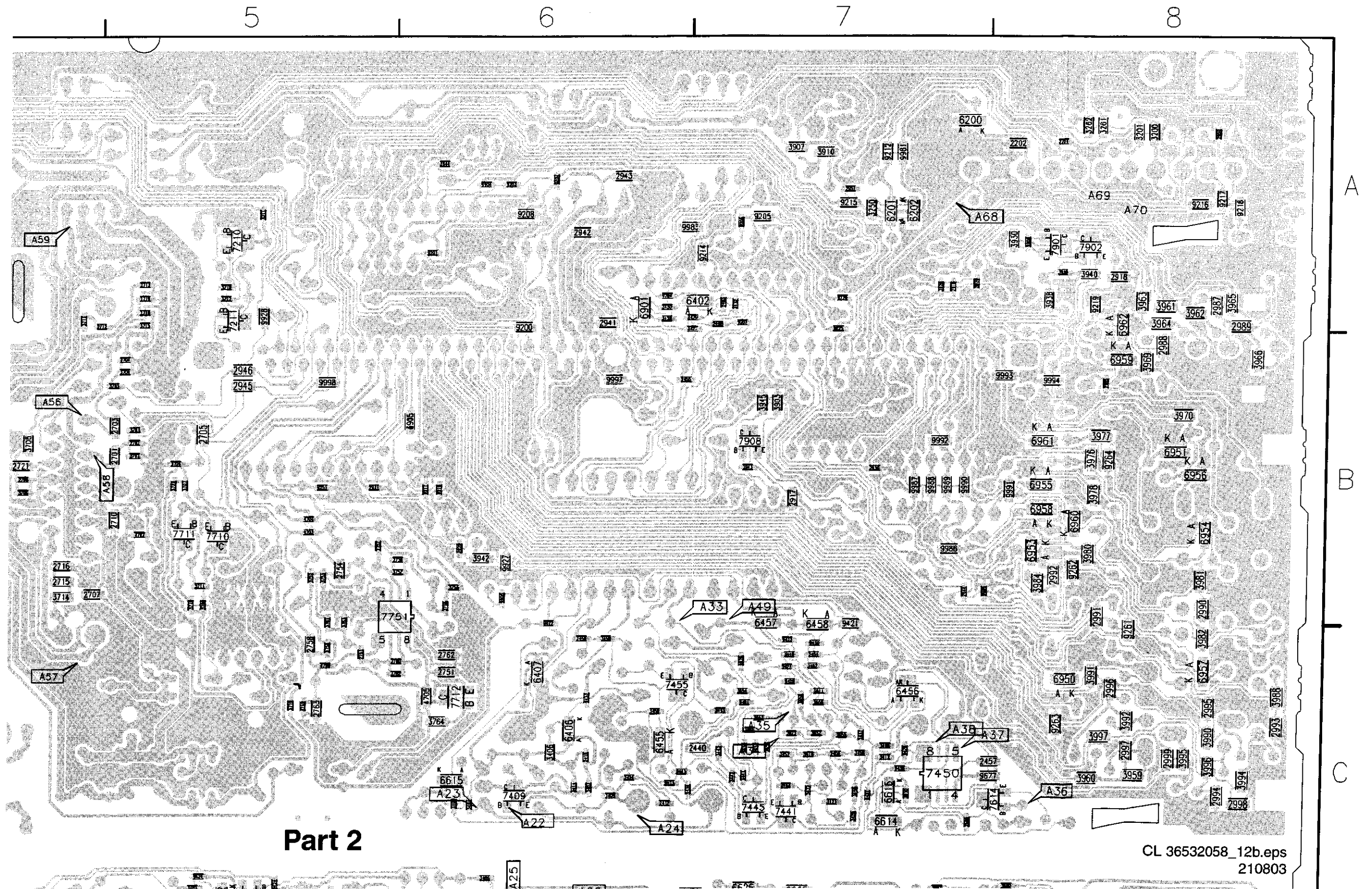


Layout LSP (Overview Bottom Side)



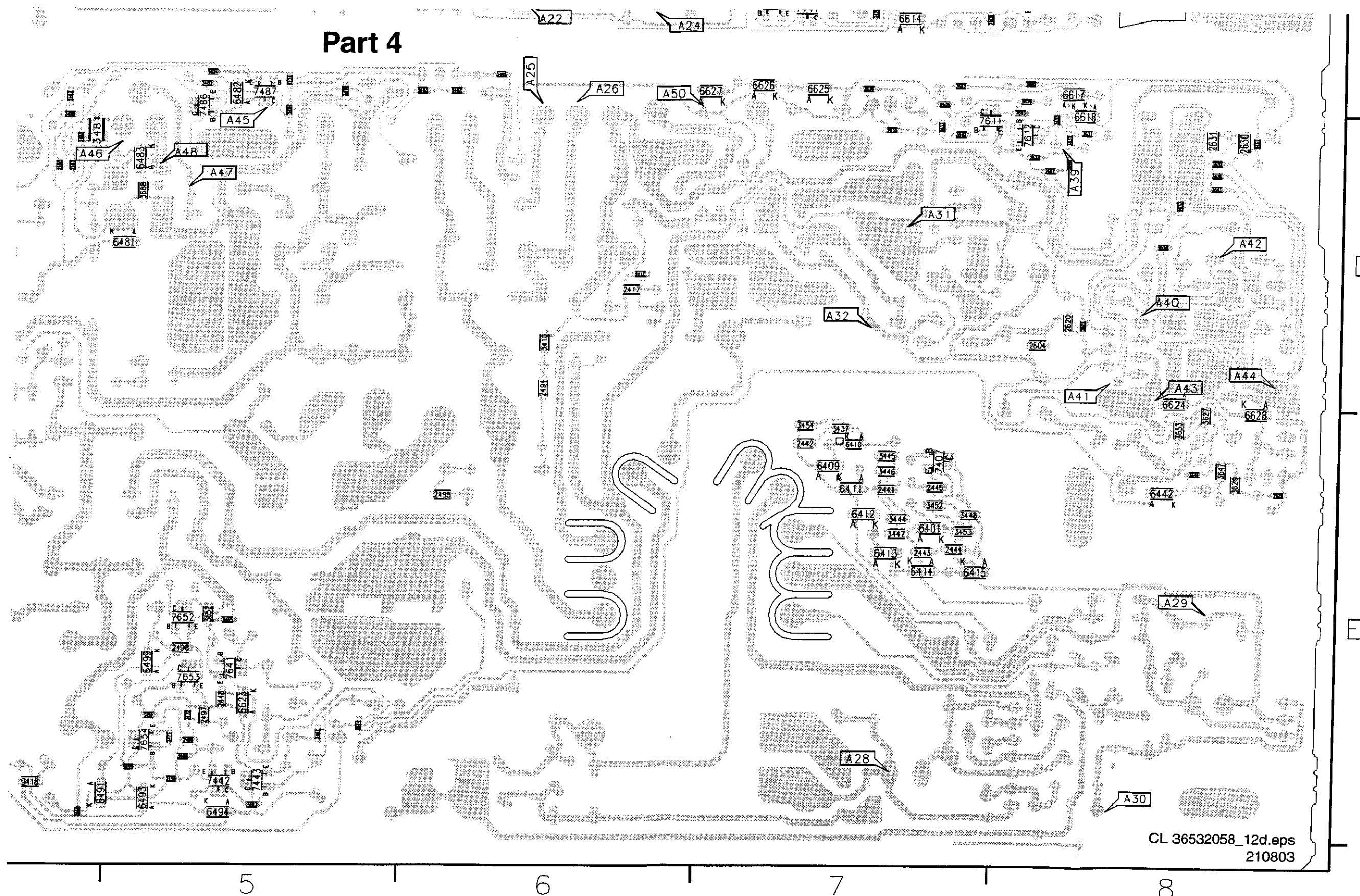
[illegible]

Layout LSP (Part 2 Bottom Side)



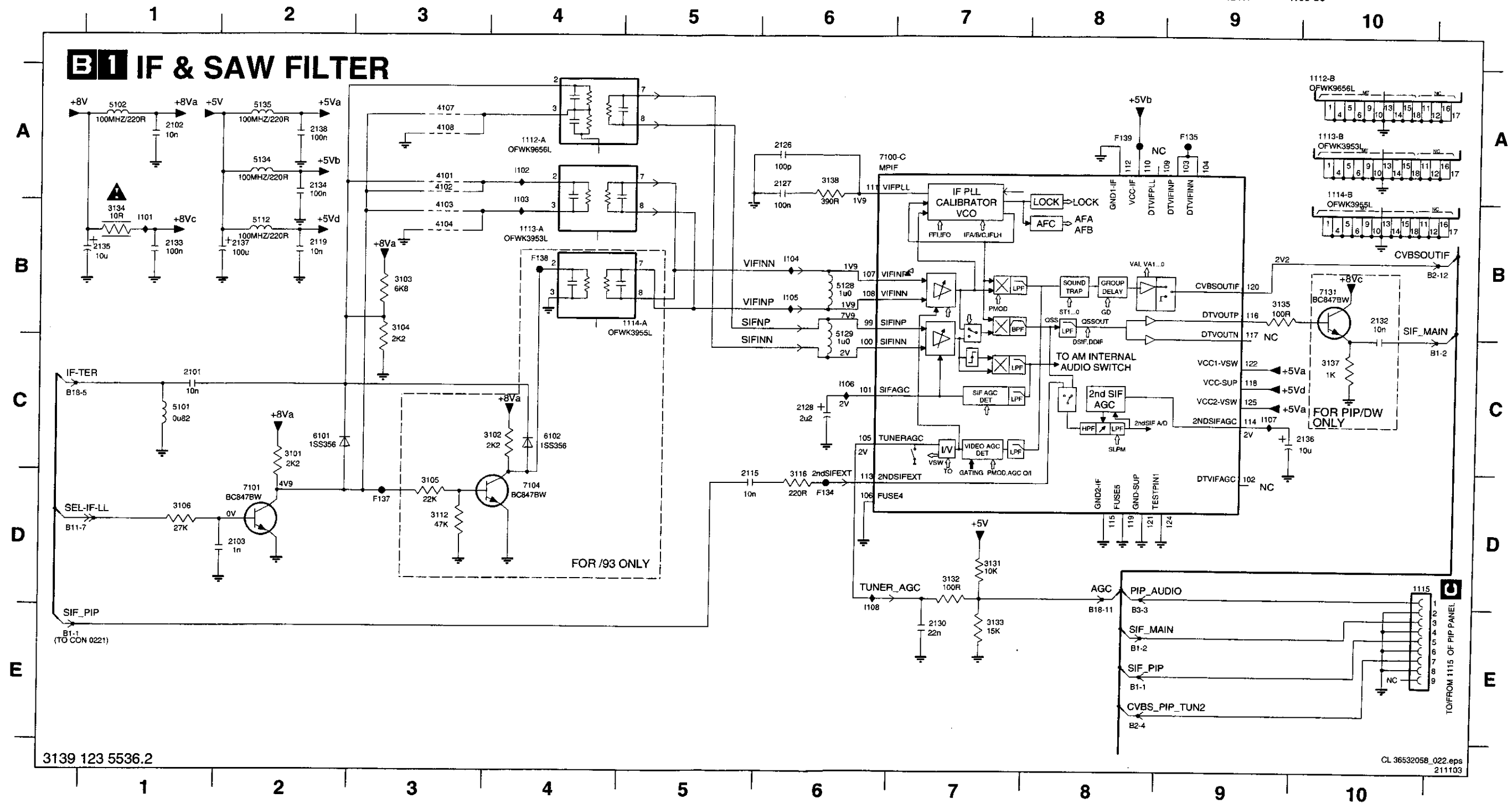
CL 36532058_12c.eps
210803

Part 4

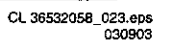


Small Signal Board: If & SAW Filter

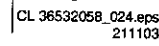
1112-A A4	1114-A B5	2102 A1	2126 A6	2132 B10	2136 C10	3102 C4	3106 D1	3132 D7	3137 C10	4103 B3	5101 C1	5129 B6	6102 C4	7131 B10	F132 E10	F138 B4	I103 A4	I107 C9
1112-B A10	1114-B A10	2103 D2	2127 A6	2133 B1	2137 B2	3103 B3	3112 D3	3133 E7	3138 A6	4104 B3	5102 A1	5134 A2	7100-C A6	F114 E10	F134 D6	F139 A8	I104 B6	I108 E6
1113-A B4	1115 D10	2115 D5	2128 C6	2134 A2	2138 A2	3104 B3	3116 D6	3134 B1	4107 A3	4107 A3	5112 B2	5135 A2	7101 D2	F115 D10	F135 A9	I101 B1	I105 B6	
1113-B A10	2101 C1	2119 B2	2130 E7	2135 B1	3101 C2	3105 D3	3131 D7	3135 B9	4102 A3	4108 A3	5128 B6	6101 C2	7104 D4	F116 E10	F137 D3	I102 A4	I106 C6	



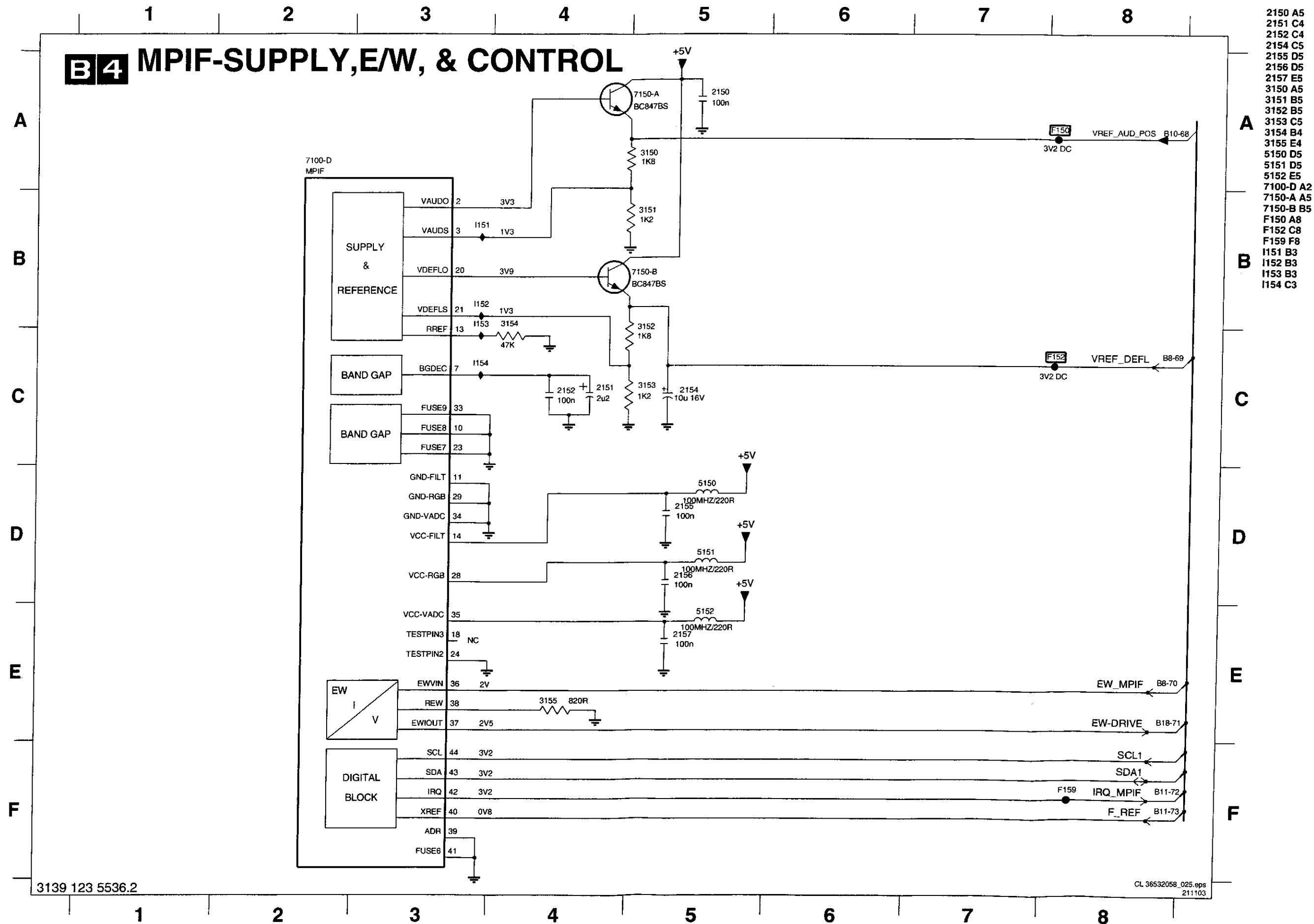
1116 E1	2064 C2	2068 D2	2072 E2	2076 E2	2082 A7	2086 D4	3061 A8	3065 C2	3070 B1	3074 E3	5060 E3	7060-B B2	F060 B1	F076 E1	F088 F7	I063 D3
2060 A3	2065 C2	2069 D2	2073 E2	2078 E3	2083 C4	2087 C2	3062 B3	3066 A8	3071 B3	4062 E2	5061 F3	7062 B8	F064 B7	F077 E1	F089 F7	I064 D3
2062 B4	2066 D2	2070 D2	2074 E2	2079 F4	2084 C4	2088 A8	3063 B3	3067 B7	3072 E3	4152 D1	5063 A8	7063 B7	F074 E2	F078 E1	I061 C3	
2063 C2	2067 D2	2071 D2	2075 E2	2081 F3	2085 D3	3060 A2	3064 C2	3068 B7	3073 E3	4153 E2	7060-A A3	7100-B B4	F075 F1	F080 B4	I062 C3	



1009 A8	2005 A8	2011 D1	2018 C2	2027 E2	2033 D9	2042 E4	2048 A2	3004 C2	3010 A2	3019 A1	3029 A10	6030 A10	7031-2 E9	F020 E8	F047 E2	I006 A8
1117 E1	2006 A8	2012 B2	2019 C2	2028 E2	2037 C9	2043 E3	2049 A2	3005 C2	3011 B2	3022 D9	3030 C10	7029-1 A9	7100-A A4	F021 E8	I001 B3	I007 C9
1118 B9	2007 B2	2013 C2	2021 D2	2029 A10	2038 C9	2044 E3	2050 A2	3006 A9	3012 E3	3024 E9	3031 D10	7029-2 A9	F014 E8	F041 E2	I002 E3	I008 C9
2002 A9	2008 B2	2014 C3	2022 D2	2030 D9	2039 D9	2045 A2	2051 B2	3007 A9	3013 E3	3026 C9	3032 D10	7030-1 C9	F015 E8	F042 E2	I003 E3	I009 D9
2003 A9	2009 C1	2015 C2	2024 D2	2031 C9	2040 D9	2046 A2	3002 D2	3008 E3	3016 A1	3027 D9	3033 E10	7030-2 D9	F016 E8	F045 B10	I004 E3	I010 D9
2004 C1	2010 C1	2016 C2	2025 D2	2032 E9	2041 E4	2047 A2	3003 C2	3009 E3	3018 A1	3028 A10	6029 A10	7031-1 D9	F017 E8	F046 E2	I005 E3	



Small Signal Board: MPIF-Supply, E/W, & Control



Small Signal Board: Video Decoder

2281 A9 2282 C9 2284 D9 2285 D9 3281 C1 3282 D2 3283 D2 3284 D2 5281 A9 5282 C9 5283 D9 5285 D9 7300-J A3 F281 D9 F282 C2 I281 D2

1

2

3

4

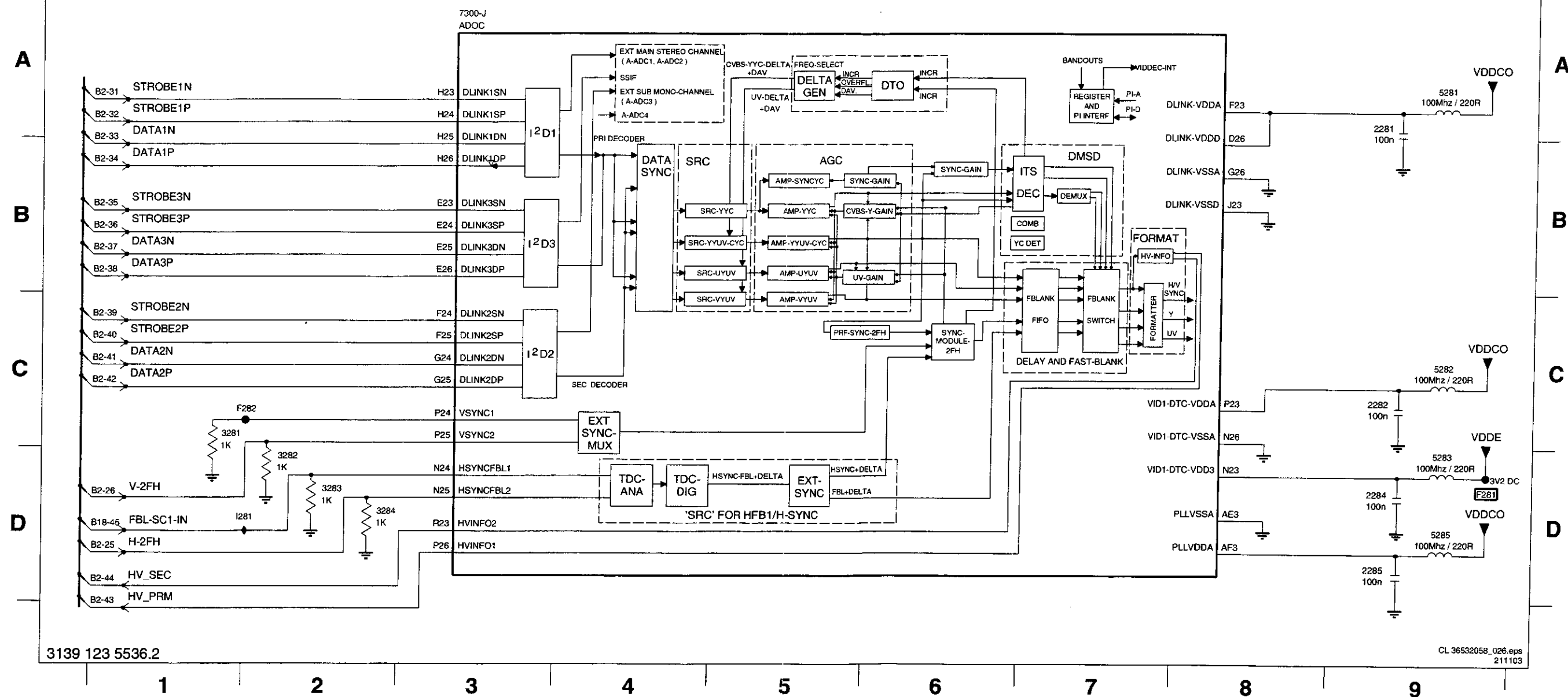
5

6

7

8

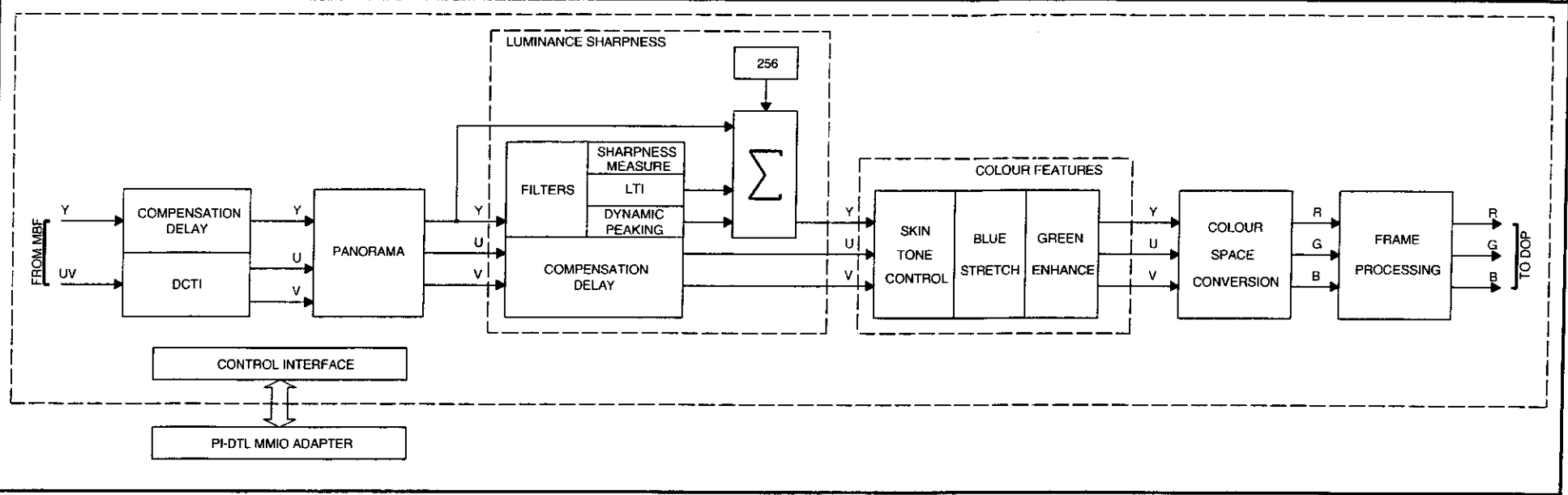
9

B5 VIDEO DECODER

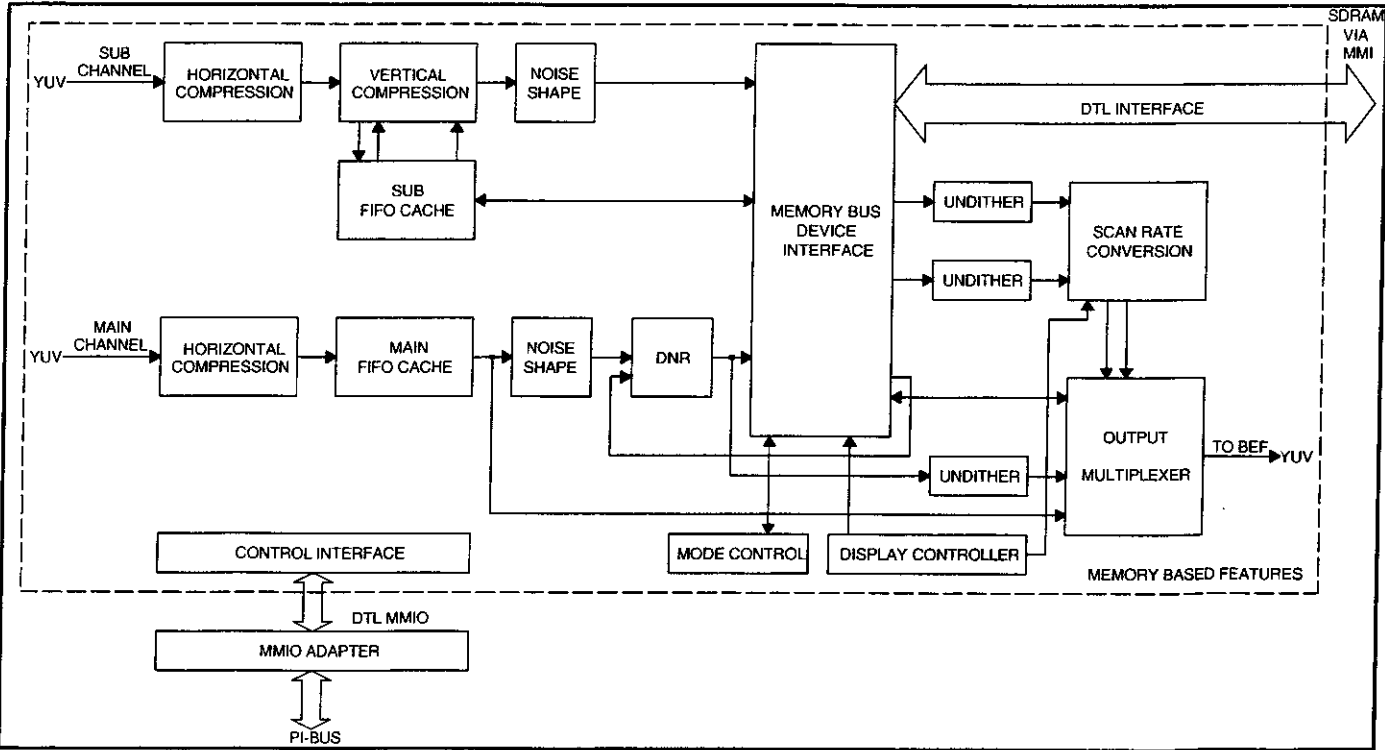
Small Signal Board: Feature Box

B6 FEATURE BOX

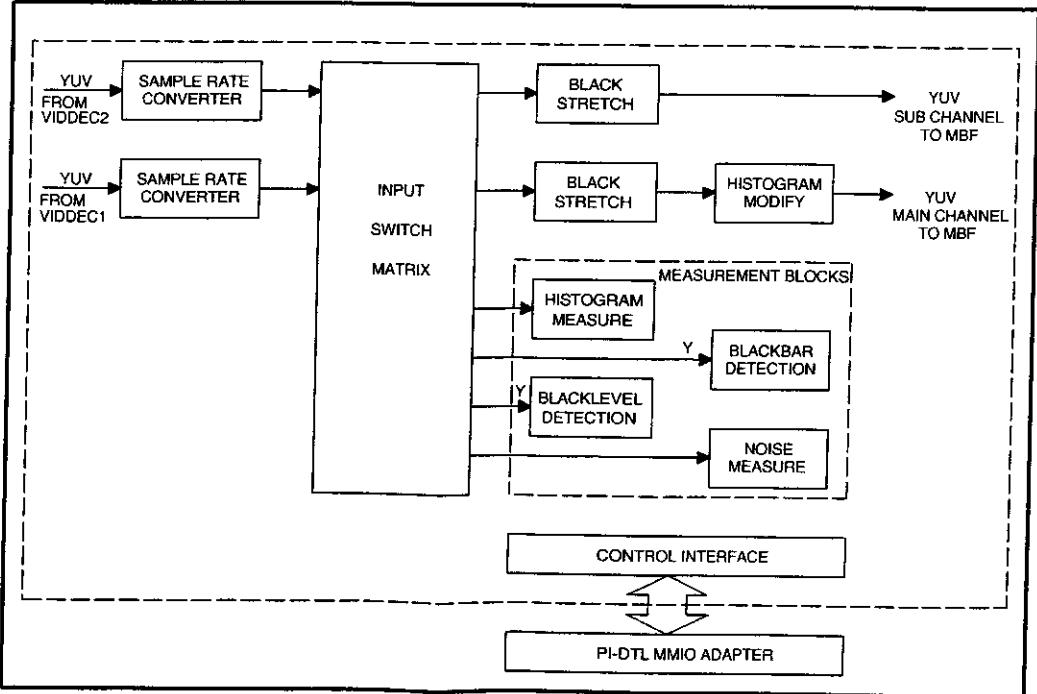
7300
BACK END PROCESSING



7300
MEMORY BASED PROCESSING

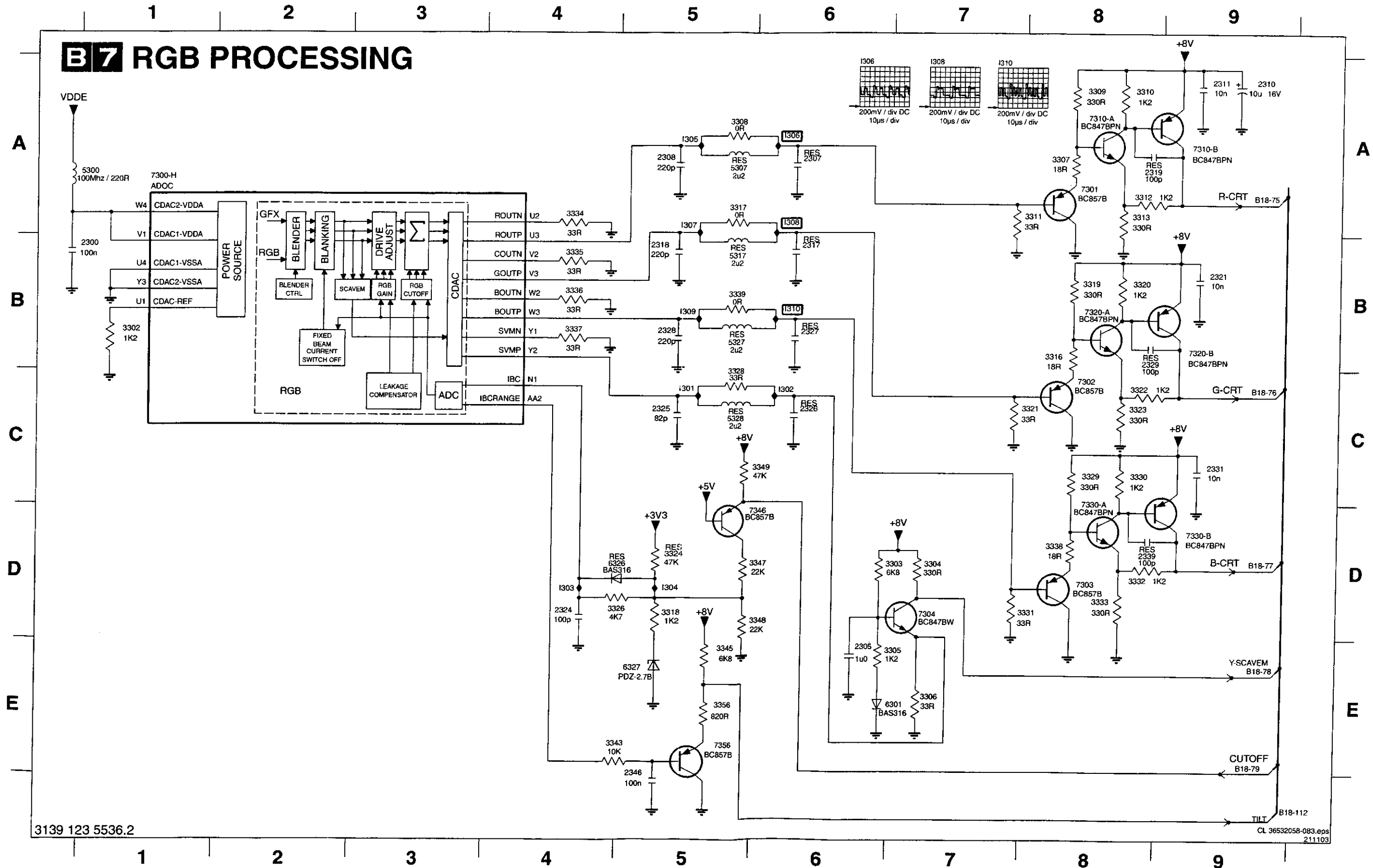


7300
FRONT END PROCESSING



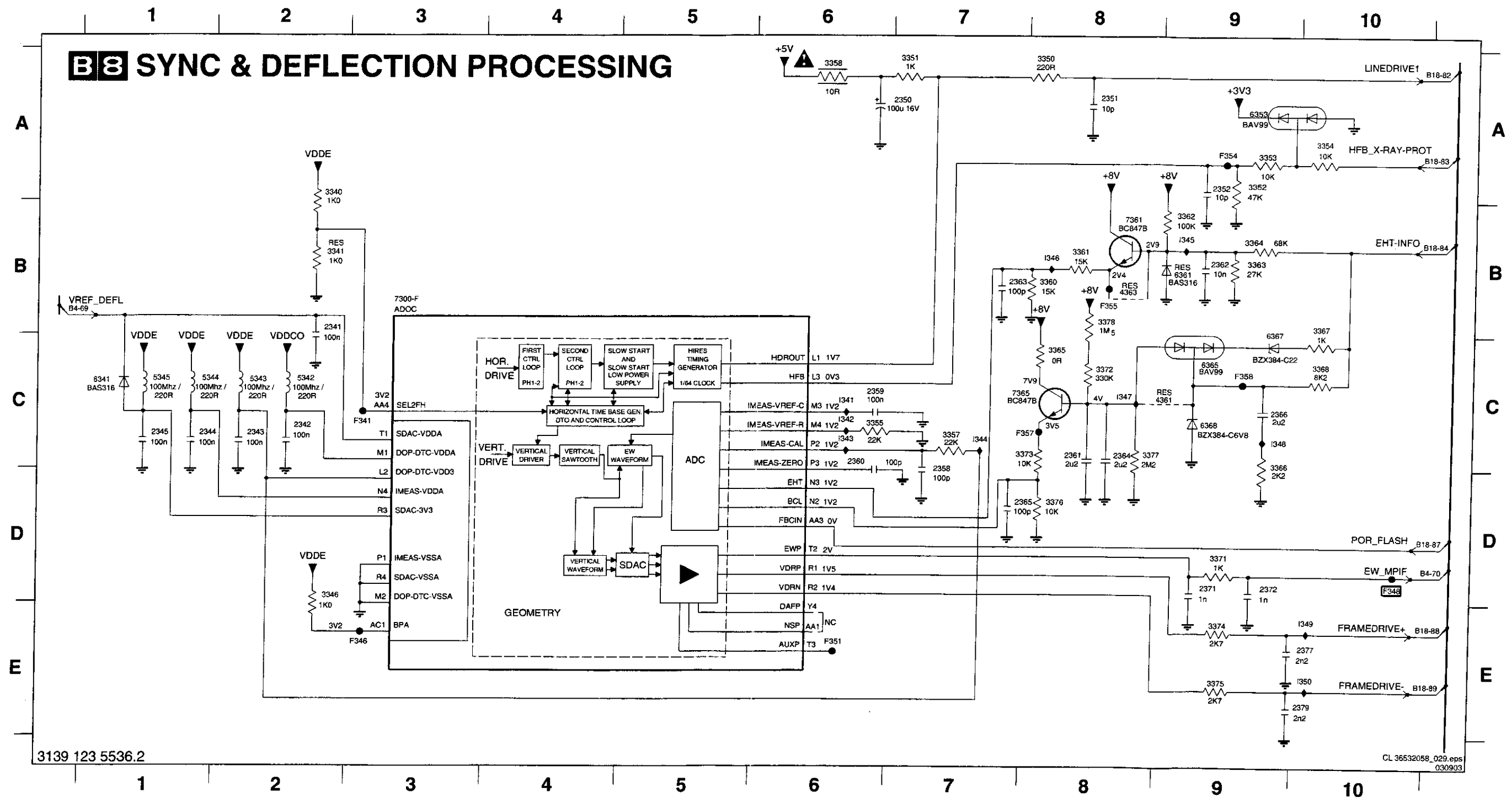
Small Signal Board: RGB Processing

2300 B1	2311 A9	2324 D4	2329 B8	3303 D7	3308 A5	3313 A8	3320 B8	3326 D4	3332 D8	3337 B4	3347 D6	5307 A5	6326 D4	7303 D8	7320-B B9	I301 C5	I306 A6
2305 E6	2317 B6	2325 C5	2331 C9	3304 D7	3309 A8	3316 B8	3321 C8	3328 C5	3333 D8	3338 D8	3348 D6	5317 B5	6327 E5	7304 D7	7330-A D8	I302 C6	I307 A5
2307 A6	2318 B5	2326 C6	2339 D8	3305 E7	3310 A8	3317 A5	3322 C8	3329 C8	3334 A4	3339 B5	3349 C6	5327 B5	7300-H A1	7310-A A8	7330-B D9	I303 D4	I308 A6
2308 A5	2319 A8	2327 B6	2346 E5	3306 E7	3311 A8	3318 D5	3323 C8	3330 C8	3335 B4	3343 E4	3356 E5	5328 C5	7301 A8	7310-B A9	7346 D5	I304 D5	I309 B5
2310 A9	2321 B9	2328 B5	3302 B1	3307 A8	3312 A8	3319 B8	3324 D5	3331 D8	3336 B4	3345 E5	5300 A1	6301 E7	7302 C8	7320-A B8	7356 E5	I305 A5	I310 B6



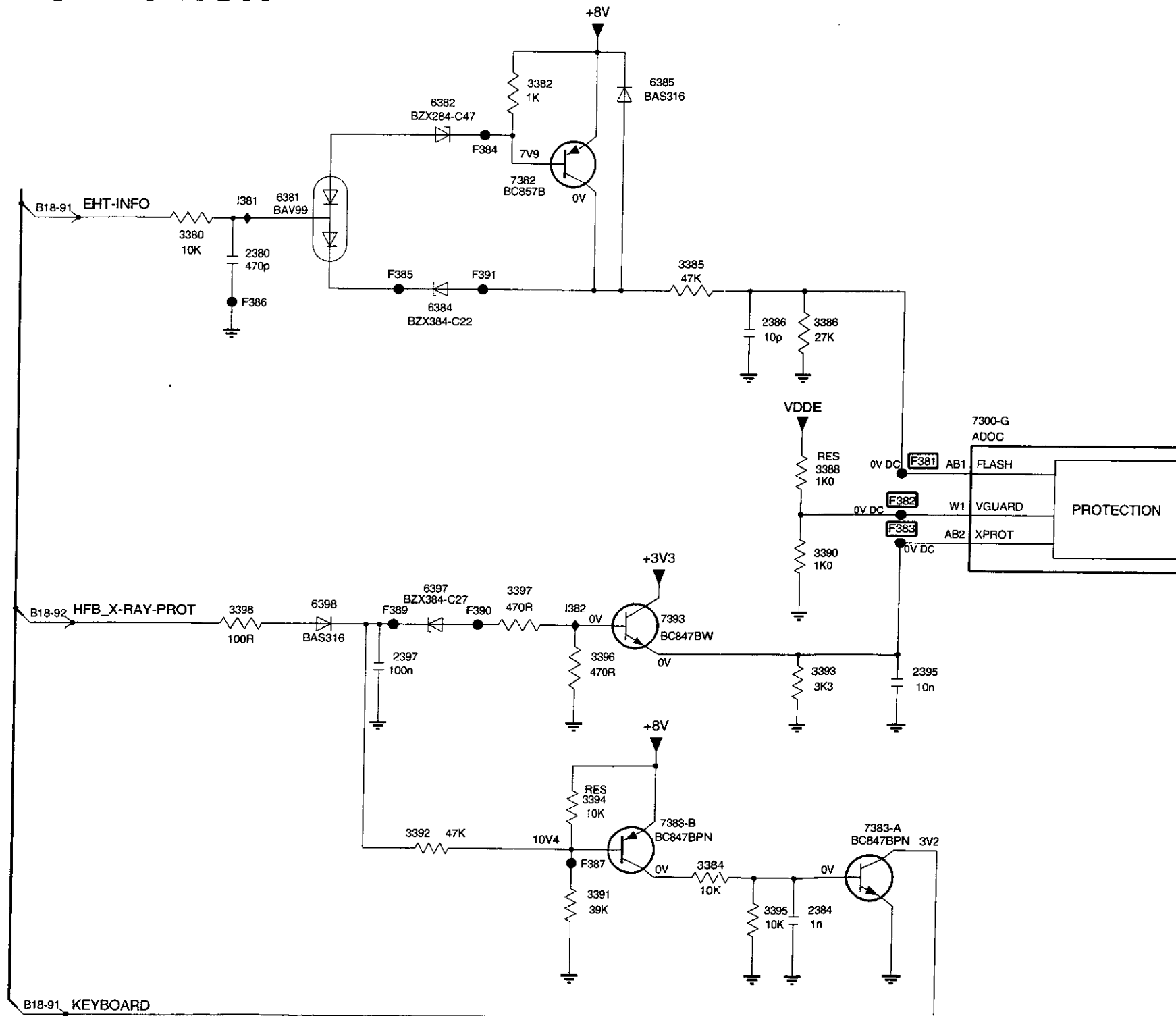
Small Signal Board: Sync & Deflection Processing

2341 B2	2350 A7	2360 C6	2365 D8	2379 E10	3351 A7	3357 C7	3363 B9	3368 C10	3375 E9	4363 B8	6341 C1	6368 C9	F346 E3	F357 C8	I344 C7	I349 E10
2342 C2	2351 A8	2361 C8	2366 C9	2371 D9	3352 A9	3358 A6	3364 B9	3371 D9	3376 D8	5342 C2	6353 A9	7300-F B3	F348 D10	F358 C9	I345 B9	I350 E10
2343 C2	2352 A9	2362 B9	2371 D9	2371 D9	3353 A9	3360 B8	3365 C8	3372 C8	3377 C8	5343 C2	6361 B9	7361 B8	F351 E6	I341 C6	I346 B8	
2344 C1	2358 D7	2363 B7	2372 D9	2372 D9	3354 A10	3361 B8	3366 C9	3373 C8	3378 B8	5344 C1	6365 C9	7365 C8	F354 A9	I342 C6	I347 C8	
2345 C1	2359 C6	2364 C8	2377 E10	2377 E10	3355 C6	3362 B9	3367 B10	3374 E9	4361 C9	5345 C1	6367 C9	F341 C3	F355 B8	I343 C6	I348 C9	



Small Signal Board: Protection

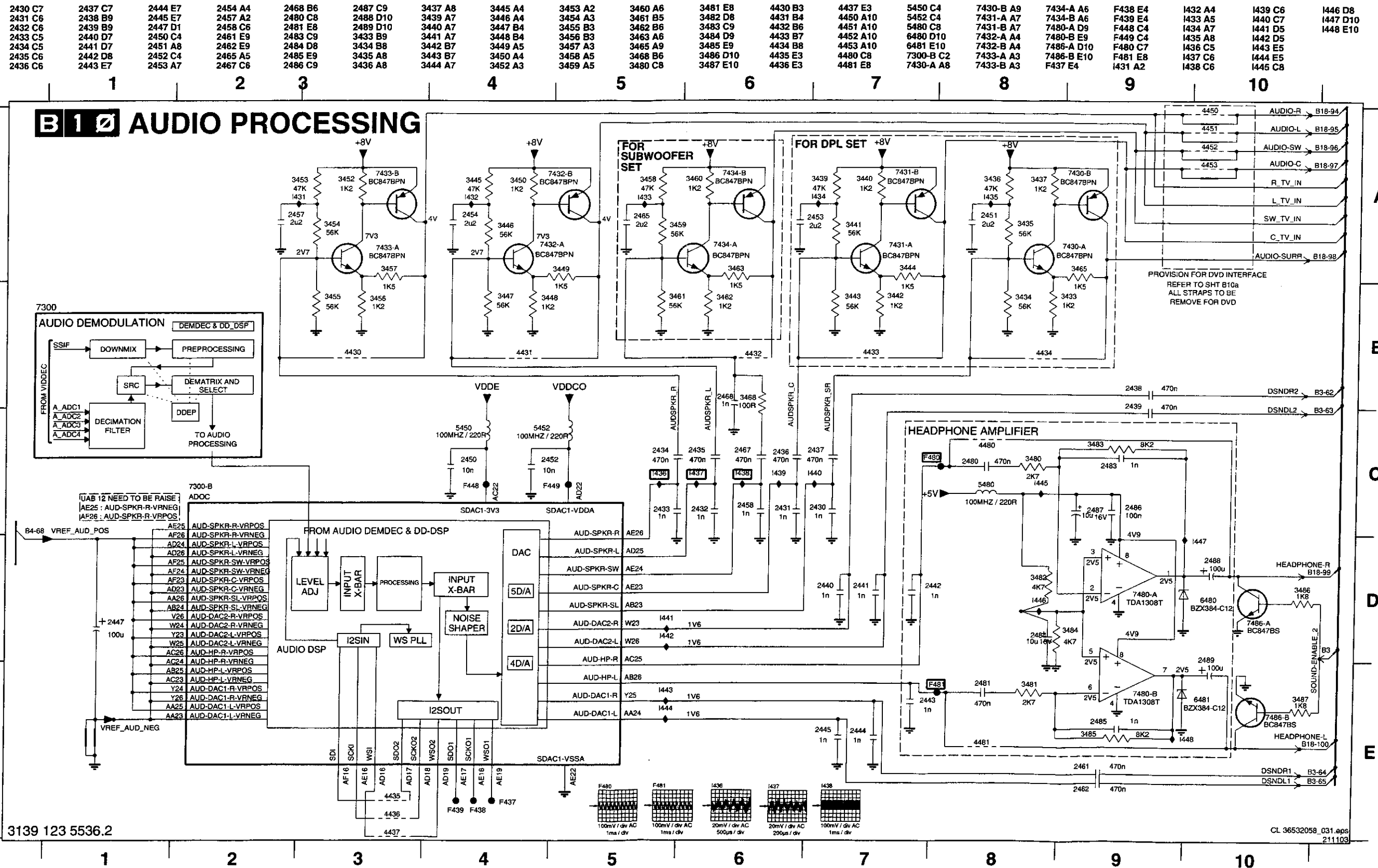
2380 B2	2395 D6	3382 A4	3386 B5	3391 E4	3394 D4	3397 C4	6382 A3	6397 C3	7382 A4	7393 D5	F383 C6	F386 B2	F390 C4	I382 C4
2386 B5	2397 D3	3384 E5	3388 C5	3392 E3	3395 E5	3398 C2	6384 B3	6398 C3	7383-A E6	F381 C6	F384 A4	F387 E4	F391 B4	
2395 E5	3380 B2	3385 B5	3390 C5	3393 D5	3396 D4	6381 A3	6385 A4	7300-G C6	7383-B E5	F382 C6	F385 B3	F389 C3	I381 A2	

B9 PROTECTION

3139 123 5536.2

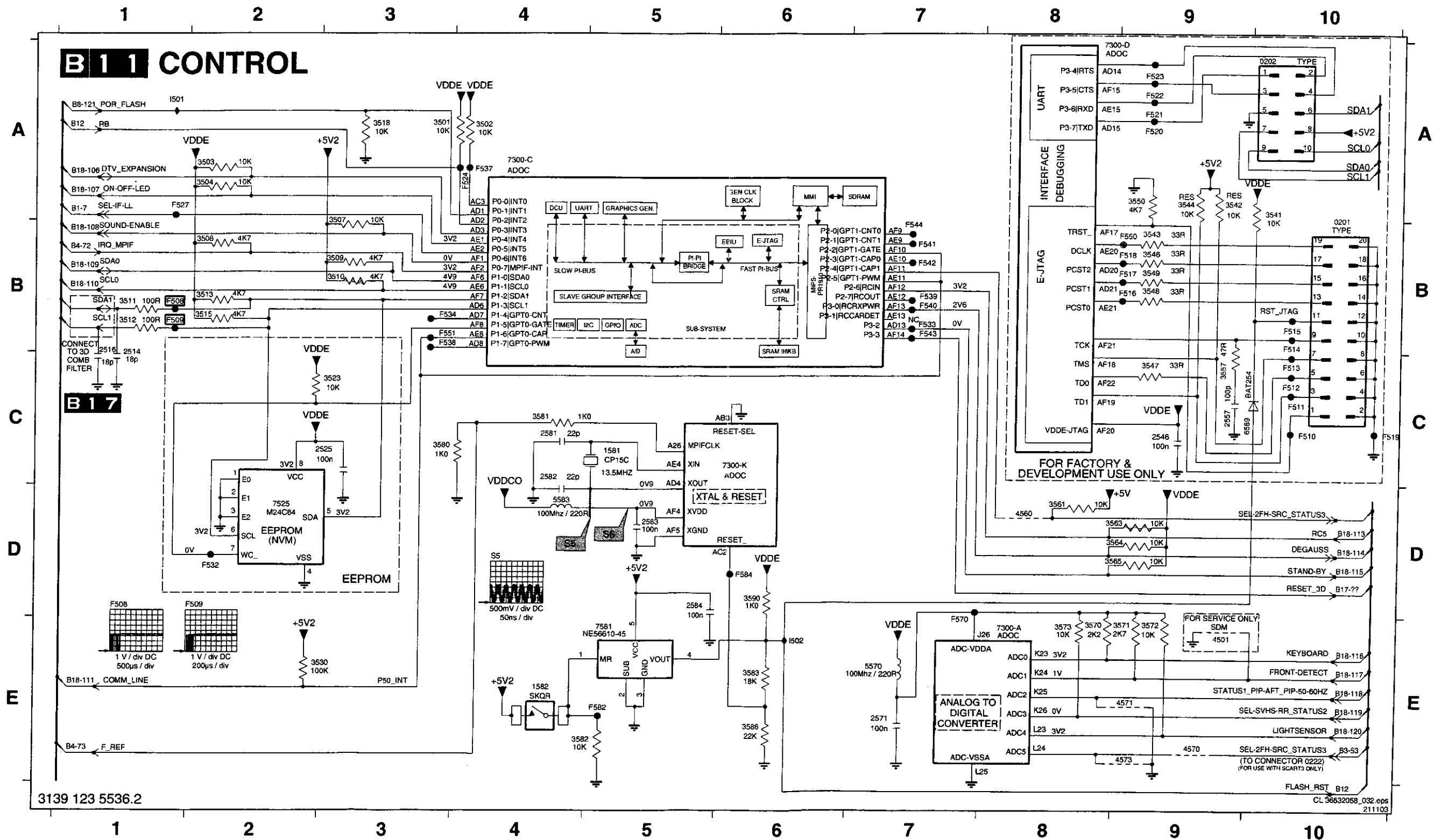
CL 36532058_030.eps
211103

Small Signal Board: Audio Processing

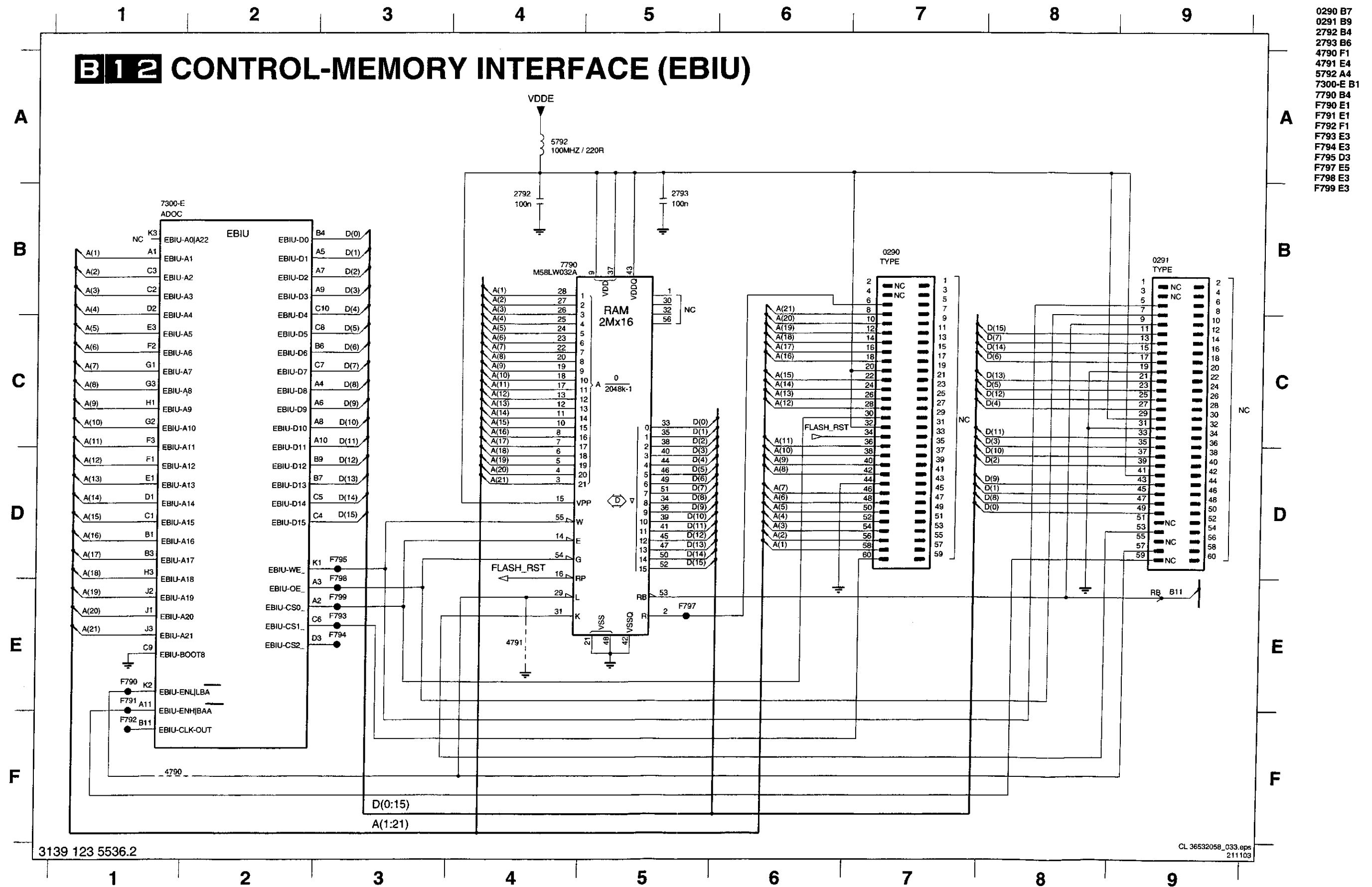


Small Signal Board: Control

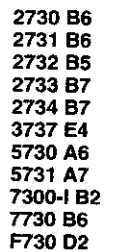
0201 A10	2525 C3	2583 D5	3507 B3	3513 B2	3542 A9	3549 B9	3565 D8	3581 C4	4560 D3	6589 C10	7581 E5	F513 C10	F519 C10	F527 A1	F539 B7	F550 B9	I502 E6
0202 A10	2546 C9	2584 D5	3508 B2	3515 B2	3543 B9	3550 A9	3570 E8	3582 E4	4570 E9	7300-A E8	F508 B1	F514 B10	F520 A9	F532 D2	F540 B7	F551 B3	
1581 C5	2557 C9	3501 A3	3509 B3	3518 A3	3544 A9	3557 C9	3571 E9	3583 E6	4571 E9	7300-C A4	F509 B1	F515 B10	F521 A9	F533 B7	F541 B7	F570 E7	
1582 E4	2571 E7	3502 A4	3510 B3	3523 C3	3546 B9	3561 D8	3572 E9	3586 E6	4573 E9	7300-D A8	F510 C10	F516 B9	F522 A9	F534 B3	F542 B7	F582 E5	
2514 B1	2581 C4	3503 A2	3511 B1	3530 E3	3547 C9	3563 D8	3573 E8	3590 D6	5570 E7	7300-K C6	F511 C10	F517 B9	F523 A9	F537 A4	F543 B7	F584 D6	
2516 C1	2582 C4	3504 A2	3512 B1	3541 A10	3548 B9	3564 D9	3580 C3	4501 E9	5583 D4	7525 D2	F512 C10	F518 B9	F524 A4	F538 B3	F544 B7	I501 A1	



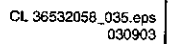
Small Signal Board: Control-Memory Interface (EBIU)



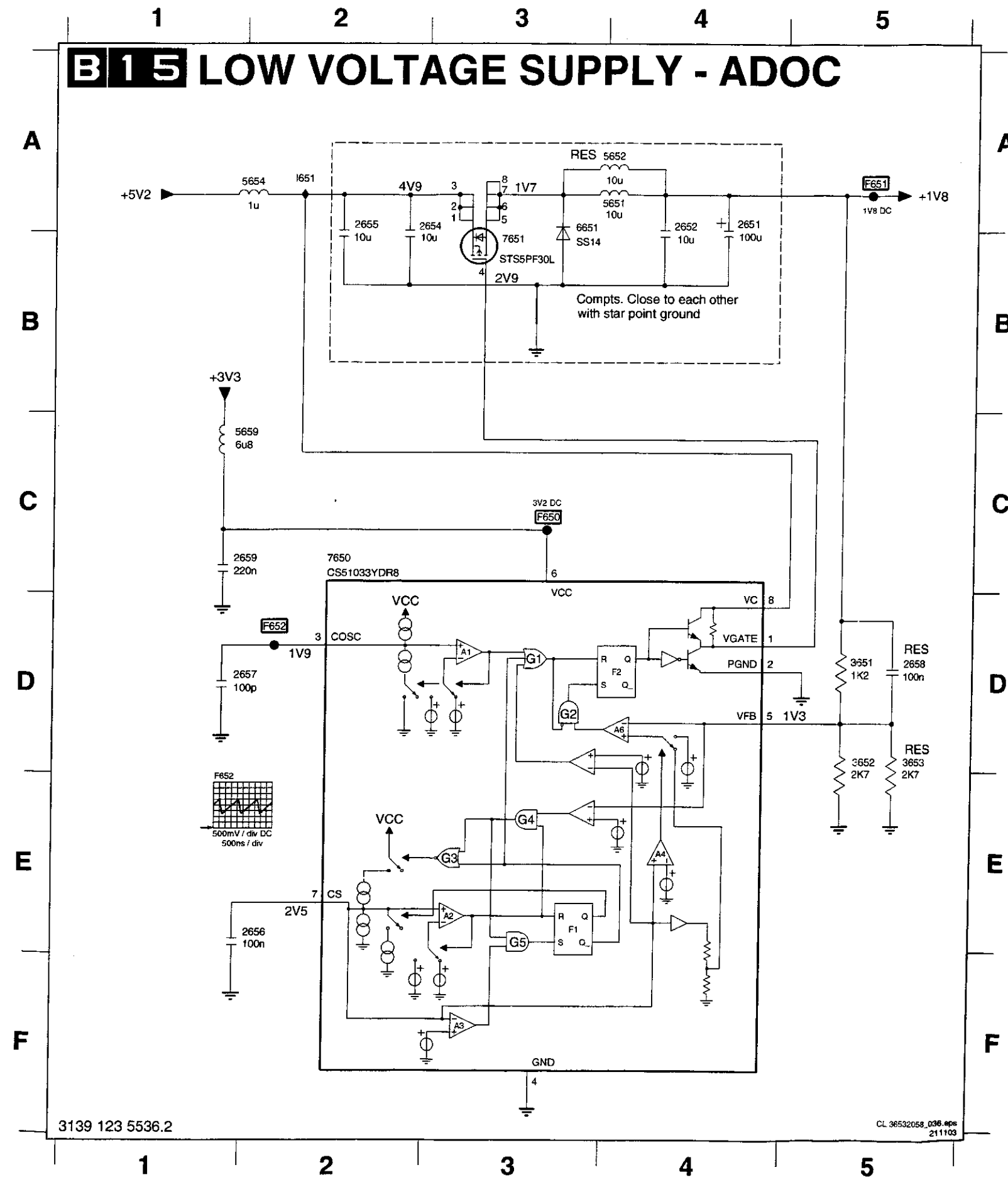
B13 CONTROL-MEMORY INTERFACE (SDRAM)



2600 C10	2604 C10	2609 C9	2612 C9	2618 C8	2622 C7	2628 C7	2630 C6	2634 C6	2644 D7	2649 C2	5601 D7	7300-M A1	1601 D8
2601 C10	2607 C9	2611 C9	2615 C8	2620 C8	2623 C7	2629 C6	2633 C6	2638 C2	2645 C1	5600 C1	7300-L B6	F601 C1	

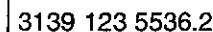


Small Signal Board: Low Voltage Supply ADOC



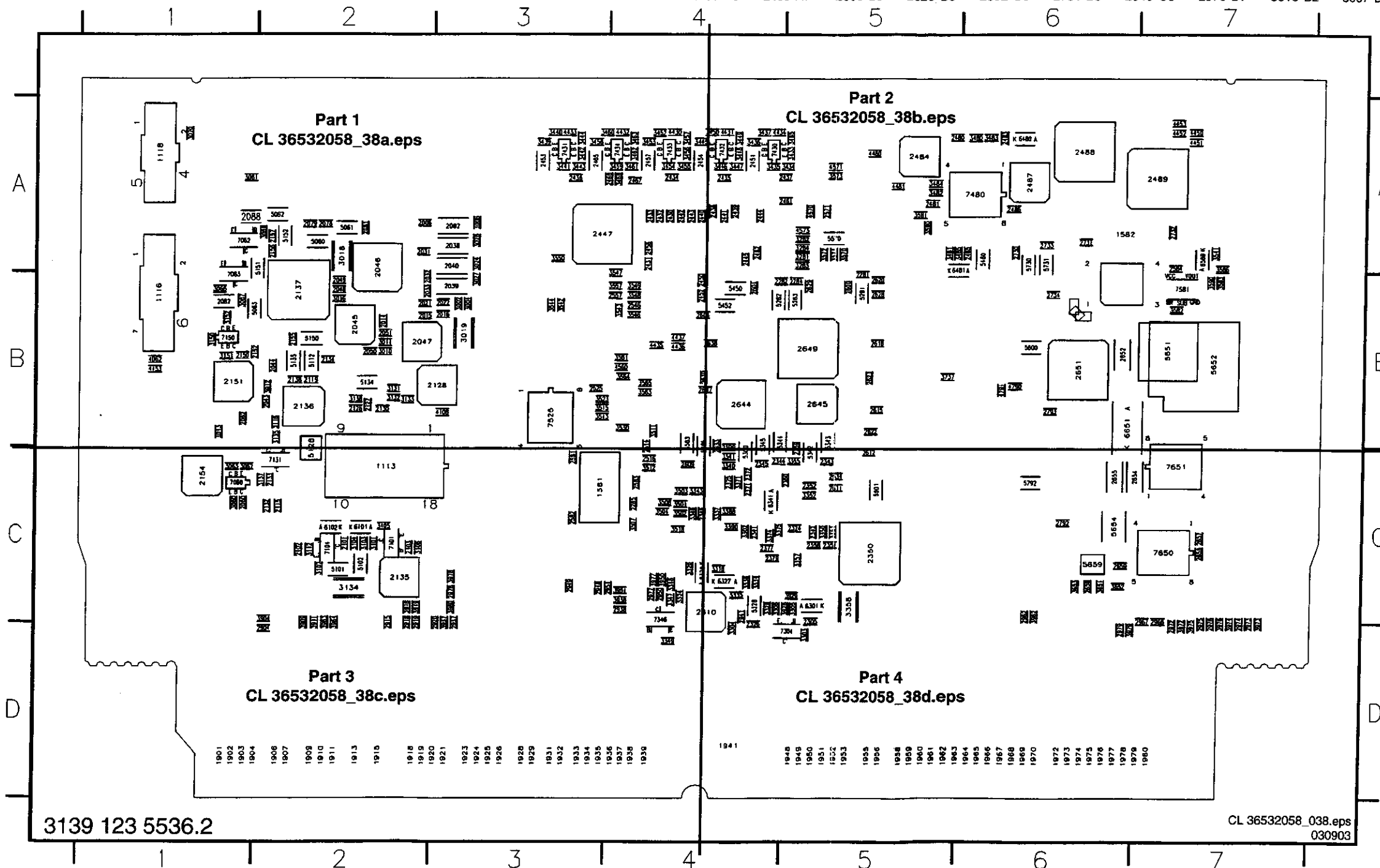
2651 A4
2652 A4
2654 A2
2655 A2
2656 E2
2657 D2
2658 D5
2659 C2
3651 D5
3652 D5
3653 D5
5651 A4
5652 A4
5654 A2
5659 C2
6651 A3
7650 C2
7651 B3
F650 C3
F651 A5
F652 D2
I651 A2

0230 A8	1907 C5	1918 B2	1925 D2	1933 F2	1939 H6	1952 H10	1960 E10
1901 A5	1908 C5	1909 B5	1924 D2	1934 G2	1941 E13	1953 G10	1961 G10
1902 A5	1910 D5	1920 B2	1928 E2	1935 G2	1948 H13	1955 G10	1962 F13
1903 B5	1911 D5	1921 C2	1929 E2	1936 H2	1949 H13	1956 F10	1963 D10
1904 A2	1913 D5	1923 C2	1931 G6	1937 H2	1950 G13	1958 F10	1964 D10
1906 B5	1915 E5	1924 D2	1932 F2	1938 H2	1951 G13	1959 F10	1965 C10



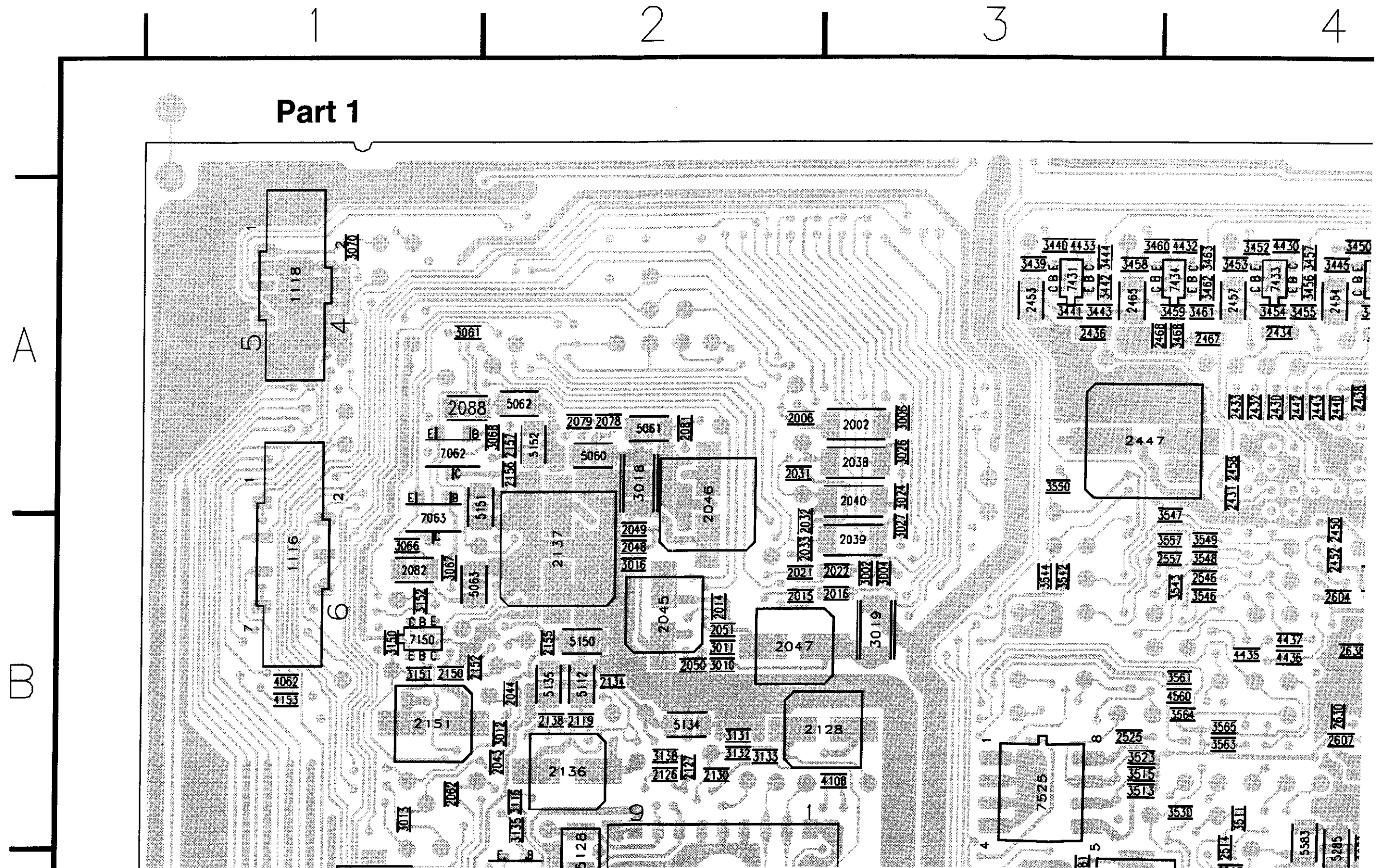
Layout SSB (Overview LOT Side)

1113 C2	2022 B3	2047 B2	2088 A1	2133 C2	2156 A2	2326 D4	2359 C5	2435 A4	2447 A3	2467 A4	2514 B4	2601 B4	2628 B5	2654 C6	2792 C6	2949 C3	2977 C4	3018 A2	3068 A2	3448 A4	3928 C5	5600 B6
1116 B1	2031 A2	2048 B2	2101 C2	2134 B2	2157 A2	2341 C4	2360 C5	2436 A3	2450 B4	2468 A3	2516 C4	2604 B4	2629 B5	2655 C6	2793 B6	2950 C4	2978 C3	3019 B3	3070 A1	3449 A4	3929 C5	5601 C5
1118 A1	2032 B2	2049 B2	2102 C2	2135 C2	2281 B5	2342 C5	2371 C4	2437 A5	2451 A4	2480 A5	2525 B3	2607 B4	2630 B4	2656 C7	2904 D2	2951 C4	2979 D6	3024 A3	3101 C2	3450 A4	3937 D3	5651 B7
1581 C3	2033 B2	2050 B2	2103 C2	2136 B2	2282 B4	2343 C5	2372 C4	2438 A4	2452 B4	2481 A5	2546 B4	2609 C4	2633 B4	2657 C7	2915 D2	2962 C6	3002 B3	3026 A3	3102 C2	3452 A4	3938 C4	5652 B7
1582 A6	2038 A3	2051 B2	2115 C2	2137 B2	2284 B5	2344 C4	2377 C4	2439 A4	2453 A3	2483 A6	2557 B4	2611 C5	2634 C5	2658 C6	2918 D2	2967 C7	3004 B3	3027 B3	3103 C2	3453 A4	3950 C4	5654 C6
2002 A3	2039 B3	2060 C1	2119 B2	2138 B2	2285 C4	2345 C4	2379 C4	2440 A4	2454 A4	2484 A5	2571 A5	2612 C5	2638 B4	2659 C6	2919 D2	2968 C7	3006 A3	3060 C1	3104 C2	3454 A4	3951 C4	5659 C6
2006 A2	2040 A3	2062 B1	2126 B2	2150 B1	2300 B4	2346 C4	2430 A4	2441 A4	2457 A4	2485 A6	2581 C3	2615 B5	2644 B4	2730 A6	2920 D3	2972 D7	3010 B2	3061 A1	3105 C2	3455 A4	3962 C6	5730 A6
2014 B2	2043 B2	2078 A2	2127 B2	2151 B1	2305 C5	2350 C5	2431 A4	2442 A4	2458 A4	2486 A6	2582 C3	2618 B5	2645 B5	2731 A6	2937 D3	2973 D7	3011 B2	3062 C1	3106 C2	3456 A4	3963 D2	5731 A6
2015 B2	2044 B2	2079 A2	2128 B3	2152 B1	2310 C4	2351 C5	2432 A4	2443 A4	2461 A5	2487 A6	2583 C4	2620 B5	2649 B5	2732 A7	2938 C4	2974 D7	3012 B2	3063 C1	3112 C2	3457 A4	3964 D2	5792 C6
2016 B3	2045 B2	2081 A2	2130 B2	2154 C1	2324 C5	2352 C5	2433 A4	2444 A4	2462 A4	2488 A6	2584 A7	2622 B5	2651 B6	2733 A6	2941 C4	2975 D7	3013 B1	3066 B1	3116 B2	3458 A3	3972 D7	6101 C2
2021 B2	2046 A2	2082 B1	2132 C2	2155 B2	2325 C4	2358 C5	2434 A4	2445 A4	2465 A3	2489 A7	2600 B5	2623 B5	2652 B6	2734 B6	2948 C3	2976 D7	3016 B2	3067 B1	3131 B2	3459 A4	3973 D7	6102 C2



3018 A2	3068 A2	3448 A4	3928 C5	5600 B6
3019 B3	3070 A1	3449 A4	3929 C5	5601 C5
3024 A3	3101 C2	3450 A4	3937 D3	5651 B7
3026 A3	3102 C2	3452 A4	3938 C4	5652 B7
3027 B3	3103 C2	3453 A4	3950 C4	5654 C6
3060 C1	3104 C2	3454 A4	3951 C4	5659 C6
3061 A1	3105 C2	3455 A4	3962 C6	5730 A6
3062 C1	3106 C2	3456 A4	3963 D2	5731 A6
3063 C1	3112 C2	3457 A4	3964 D2	5792 C6
3066 B1	3116 B2	3458 A3	3972 D7	6101 C2
3131 B2	3459 A4	3973 D7	6102 C2	
3132 B2	3460 A3	3974 D7	6301 C5	
3133 B2	3461 A4	3975 D7	6326 C4	
3134 C2	3462 A4	3976 D7	6327 C4	
3135 B2	3463 A4	3977 C4	6341 C4	
3137 C2	3465 A5	3978 C3	6480 A6	
3138 B2	3468 A4	3979 D6	6481 A5	
3150 B1	3480 A6	3980 C3	6589 A7	
3151 B1	3481 A5	4062 B1	6651 B6	
3152 B1	3482 A5	4108 B3	7060 C1	
3281 A5	3483 A6	4153 B1	7062 A1	
3282 A5	3484 A5	4430 A4	7063 B1	
3283 A5	3485 A5	4431 A4	7101 C2	
3284 A5	3501 C4	4432 A4	7104 C2	
3302 C4	3502 C4	4433 A3	7131 C2	
3303 D5	3503 C4	4434 A4	7150 B1	
3304 D4	3504 C4	4435 B4	7304 D5	
3305 C5	3507 C4	4436 B4	7346 C4	
3306 C4	3508 C4	4437 B4	7430 A4	
3318 C4	3511 B4	4450 A7	7431 A3	
3324 C4	3512 C4	4451 A7	7432 A4	
3326 C4	3513 B3	4452 A7	7433 A4	
3328 C4	3515 B3	4453 A7	7434 A4	
3334 C4	3518 C4	4480 A5	7480 A6	
3335 C4	3523 B3	4481 A5	7525 B3	
3336 C4	3530 B4	4560 B4	7581 B7	
3337 C4	3541 A7	4570 A5	7650 C7	
3340 C4	3542 B3	4571 A5	7651 C7	
3341 C4	3543 B4	4573 A5		
3343 C4	3544 B3	4790 B6		
3346 C4	3546 B4	4791 B6		
3347 C4	3547 B4	5060 A2		
3348 C4	3548 B4	5061 A2		
3349 D4	3549 B4	5062 A2		
3350 C5	3550 A3	5063 B1		
3351 C5	3557 B4	5101 C2		
3352 C5	3561 B4	5102 C2		
3355 C5	3563 B4	5112 B2		
3357 C5	3564 B4	5128 C2		
3358 C5	3565 B4	5134 B2		
3371 C4	3570 A5	5135 B2		
3374 C4	3571 A5	5150 B2		
3375 C4	3572 A5	5151 A2		
3388 C4	3573 A5	5152 A2		
3390 C4	3580 A5	5281 B5		
3433 A5	3581 A5	5282 B4		
3434 A5	3582 B7	5283 B5		
3435 A4	3583 B7	5285 B4		
3436 A4	3586 A7	5300 C4		
3437 A4	3590 B7	5328 C4		
3439 A3	3651 C6	5342 C5		
3440 A3	3652 C6	5343 B5		
3441 A3	3653 C6	5344 B4		
3442 A3	3737 B5	5345 B4		
3443 A3	3904 C2	5450 B4		
3444 A3	3909 D2	5452 B4		
3445 A4	3911 D2	5480 A6		
3446 A4	3918 C2	5570 A5		
3447 A4	3919 C2	5583 B4		

Layout SSB (Part 1 LOT Side)



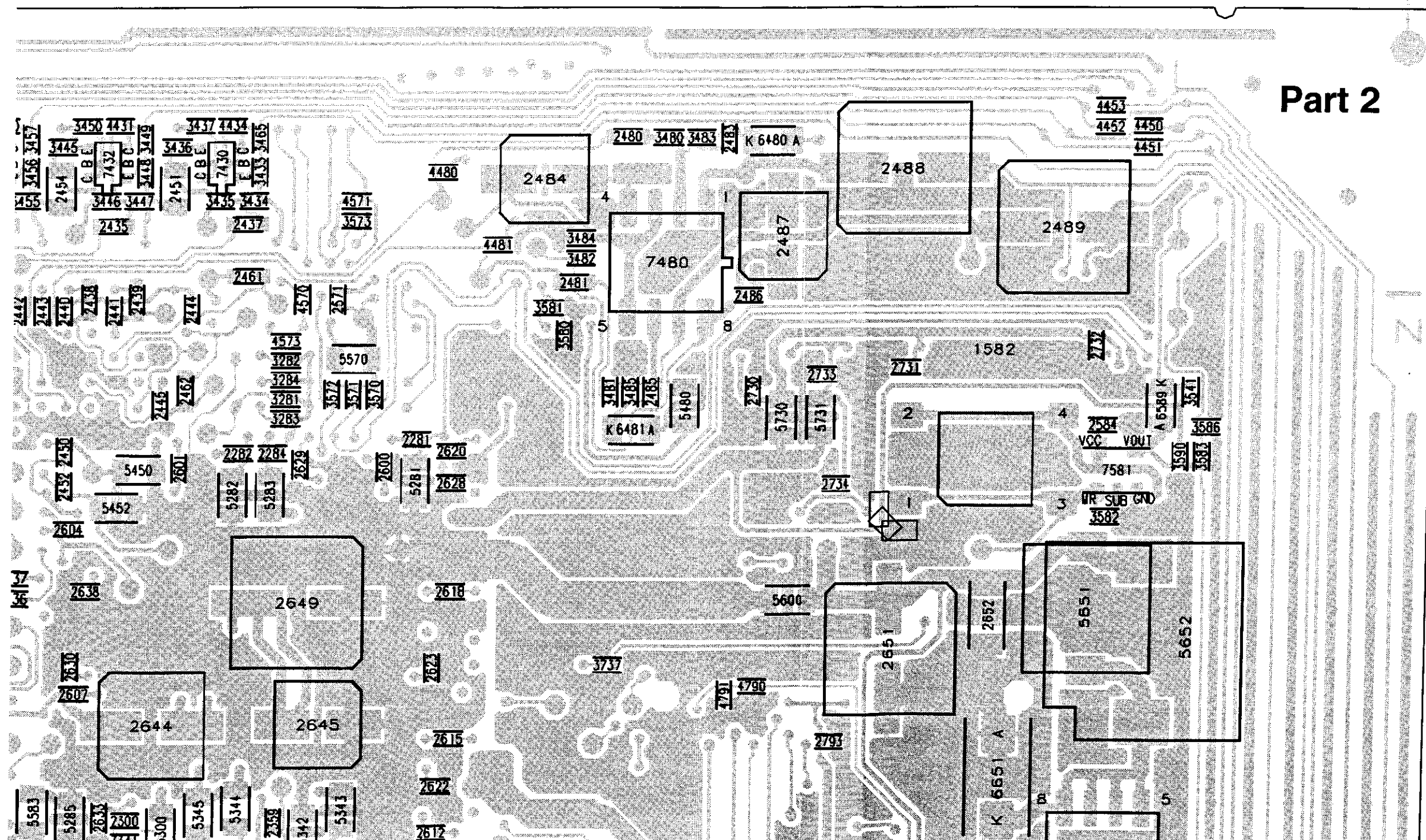
CL 36532058_38a.eps
030903

4

5

6

7



CL 36532058_38b.eps
030903

F

CL 36532058_38c.eps
030903

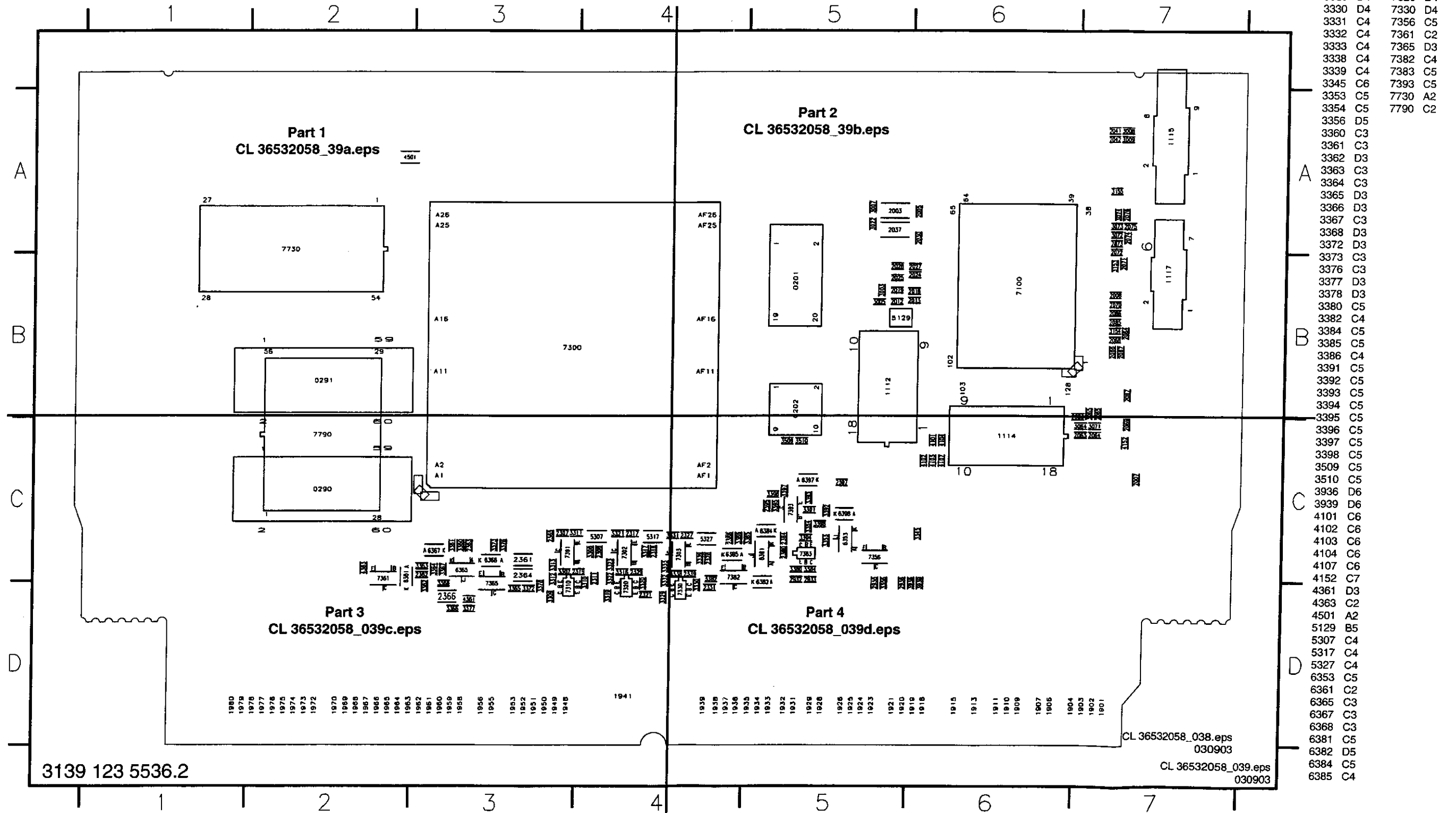
Part 4

Part 4

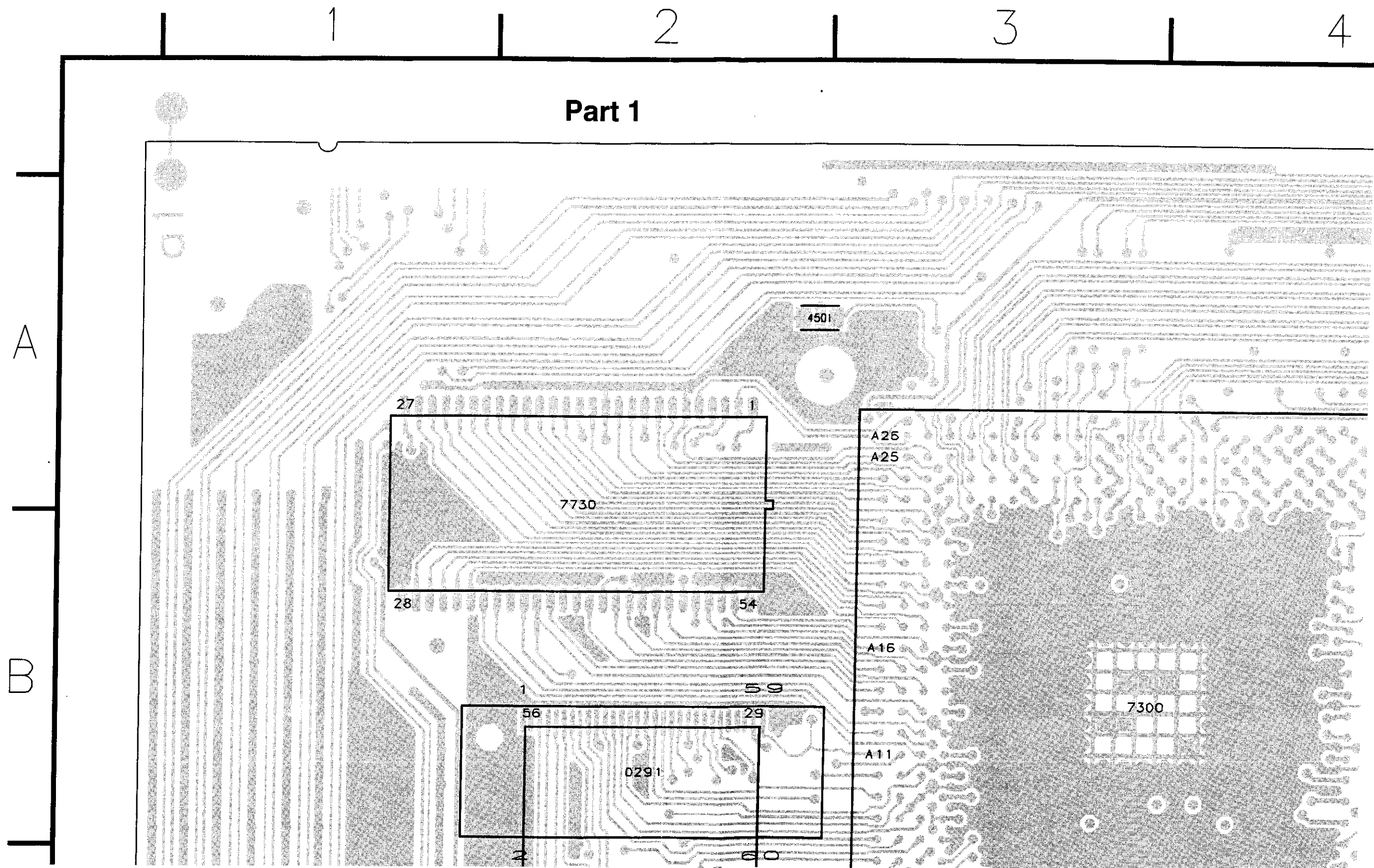
CL 36532058_38d.eps
030903

Layout SSB (Overview Tuner Side)

0201 B5	1901 D7	1911 D6	1924 D5	1934 D5	1949 D3	1959 D3	1967 D2	1976 D2	2008 B7	2028 B5	2066 B7	2074 A7	2307 C3	2328 C4	2365 C3	2933 C5	3022 A5	3154 B7	3313 C3	6397 C5
0202 B5	1902 D7	1913 D6	1925 D5	1935 D5	1950 D3	1960 D3	1968 D2	1977 D2	2012 B5	2030 A6	2067 B7	2075 A7	2308 C4	2329 C4	2366 D3	2935 D5	3064 C7	3155 A7	3316 C4	6398 C5
0290 C2	1903 D7	1915 D6	1926 D5	1936 D4	1951 D3	1961 D3	1969 D2	1978 D2	2013 B6	2037 A5	2068 B7	2076 A7	2311 C4	2331 D4	2380 C5	2936 D5	3065 B7	3307 C3	3317 C4	7100 B6
0291 B2	1904 D6	1918 D6	1928 D5	1937 D4	1952 D3	1962 D3	1970 D2	1979 D1	2018 B6	2041 A7	2069 C7	2083 B7	2317 C4	2339 C4	2384 C5	3003 B5	3071 C7	3308 C4	3319 D4	7300 B3
1112 B5	1906 D6	1919 D6	1929 D5	1938 D4	1953 D3	1963 D2	1972 D2	1980 D1	2019 B5	2042 A7	2070 B7	2084 B7	2318 C4	2361 C3	2386 C4	3005 B5	3072 A7	3309 D3	3320 D4	7301 C3
1114 C6	1907 D6	1920 D5	1931 D5	1939 D4	1955 D3	1964 D2	1973 D2	2003 A5	2024 B6	2063 C7	2071 B7	2085 B7	2319 C4	2362 C3	2395 C5	3007 A5	3073 A7	3310 D4	3321 C4	7302 C4
1115 A7	1909 D6	1921 D5	1932 D5	1941 D4	1956 D3	1965 D2	1974 D2	2005 A6	2025 B5	2064 C7	2072 A7	2086 B7	2321 D4	2363 C3	2397 C5	3008 A7	3074 A7	3311 C3	3322 C4	7303 C4
1117 B7	1910 D6	1923 D5	1933 D5	1948 D3	1958 D3	1966 D2	1975 D2	2007 C7	2027 B6	2065 B7	2073 A7	2087 B7	2327 C4	2364 C3	2932 C5	3009 A7	3153 B7	3312 C3	3323 C4	7310 D3



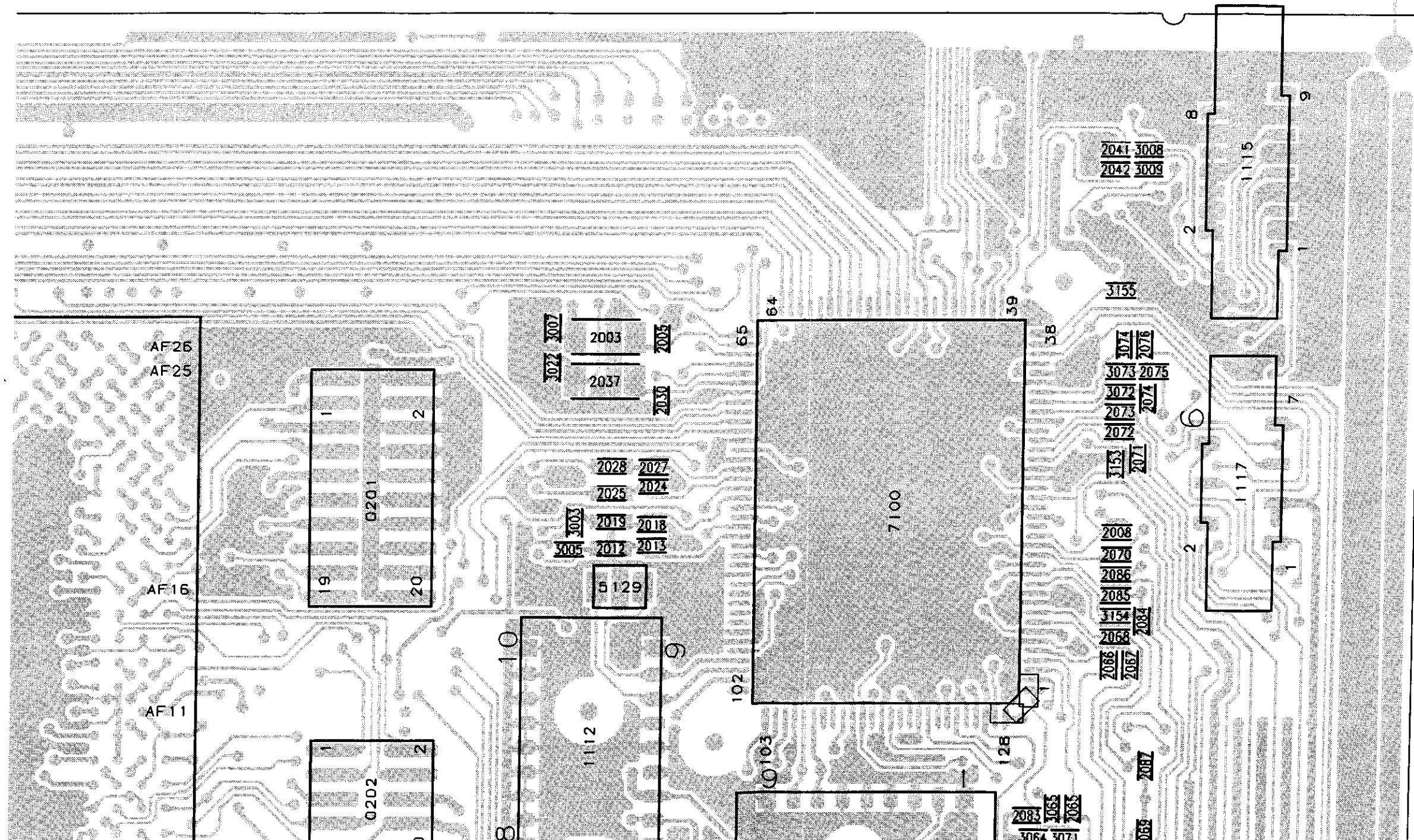
Layout SSB (Part 1 Tuner Side)



CL 36532058_39a.eps
030903

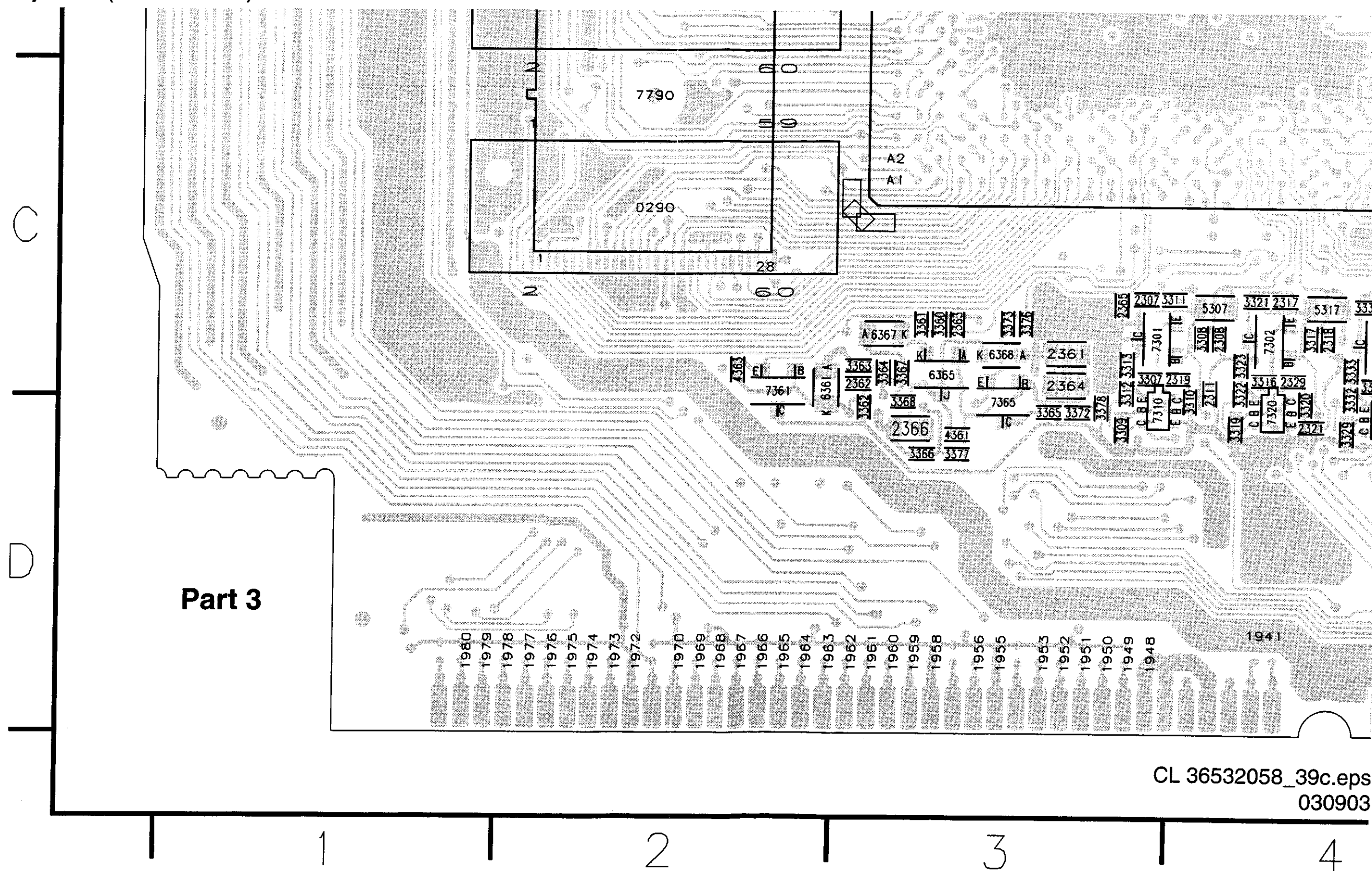
7

3



PHIL-05697 / DRUCK 49

Layout SSB (Part 3 Tuner Side)



CL 36532058_39c.eps
030903

Part 4

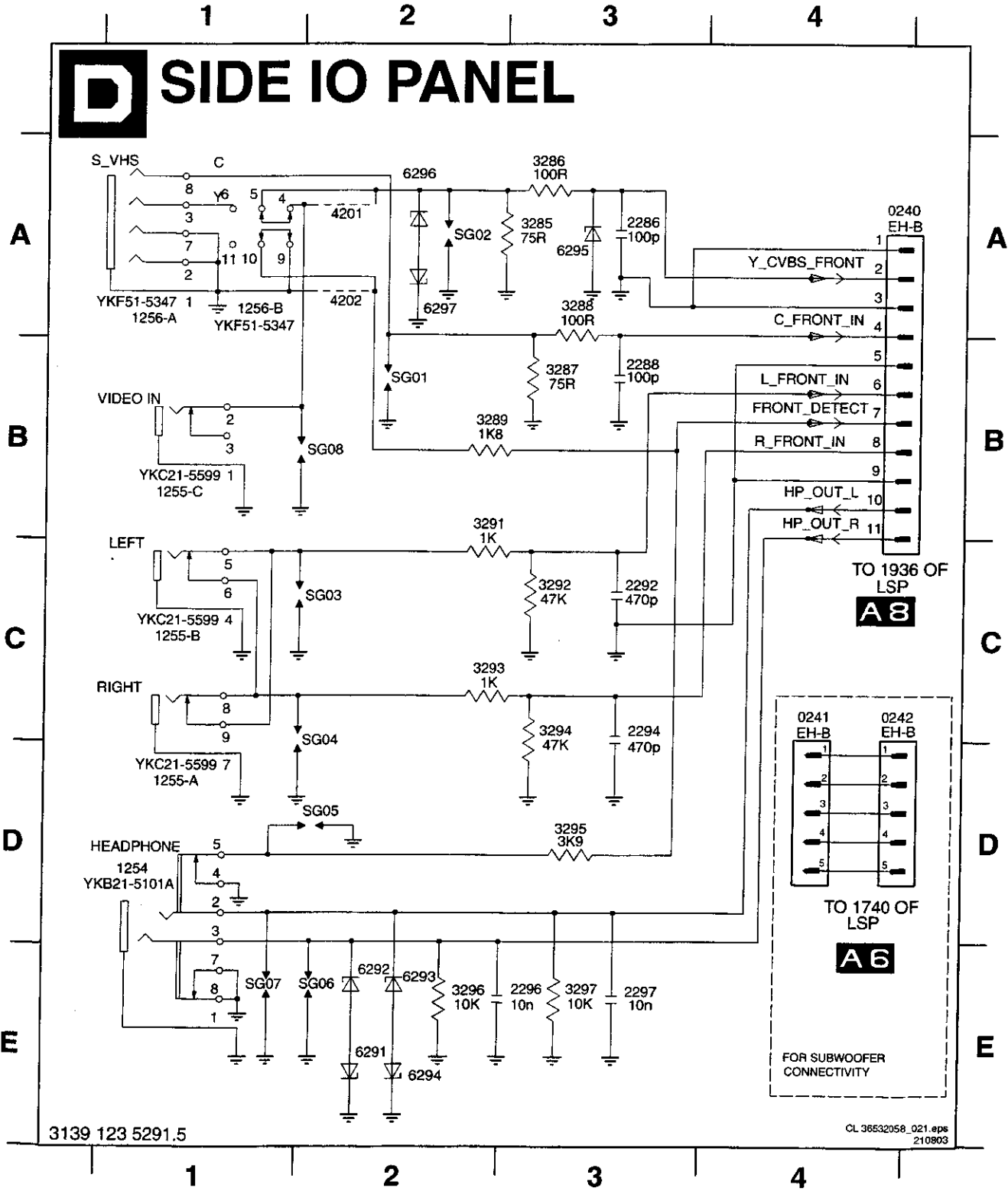
Part 4

CL 36532058_38d.eps
030903

Side I/O Panel

0240 A4	1256-A A1	2297 E3	3292 C3	4202 A2	6297 A2
0241 C4	1256-B A1	3285 A3	3293 C2	6291 E2	
0242 C4	2286 A3	3286 A3	3294 C3	6292 E2	
1254 D1	2288 B3	3287 B3	3295 D3	6293 E2	
1255-A D1	2292 C3	3288 A3	3296 E2	6294 E2	
1255-B C1	2294 C3	3289 B2	3297 E3	6295 A3	
1255-C B1	2296 E3	3291 B2	4201 A2	6296 A2	

Personal Notes:



Top Control Panel

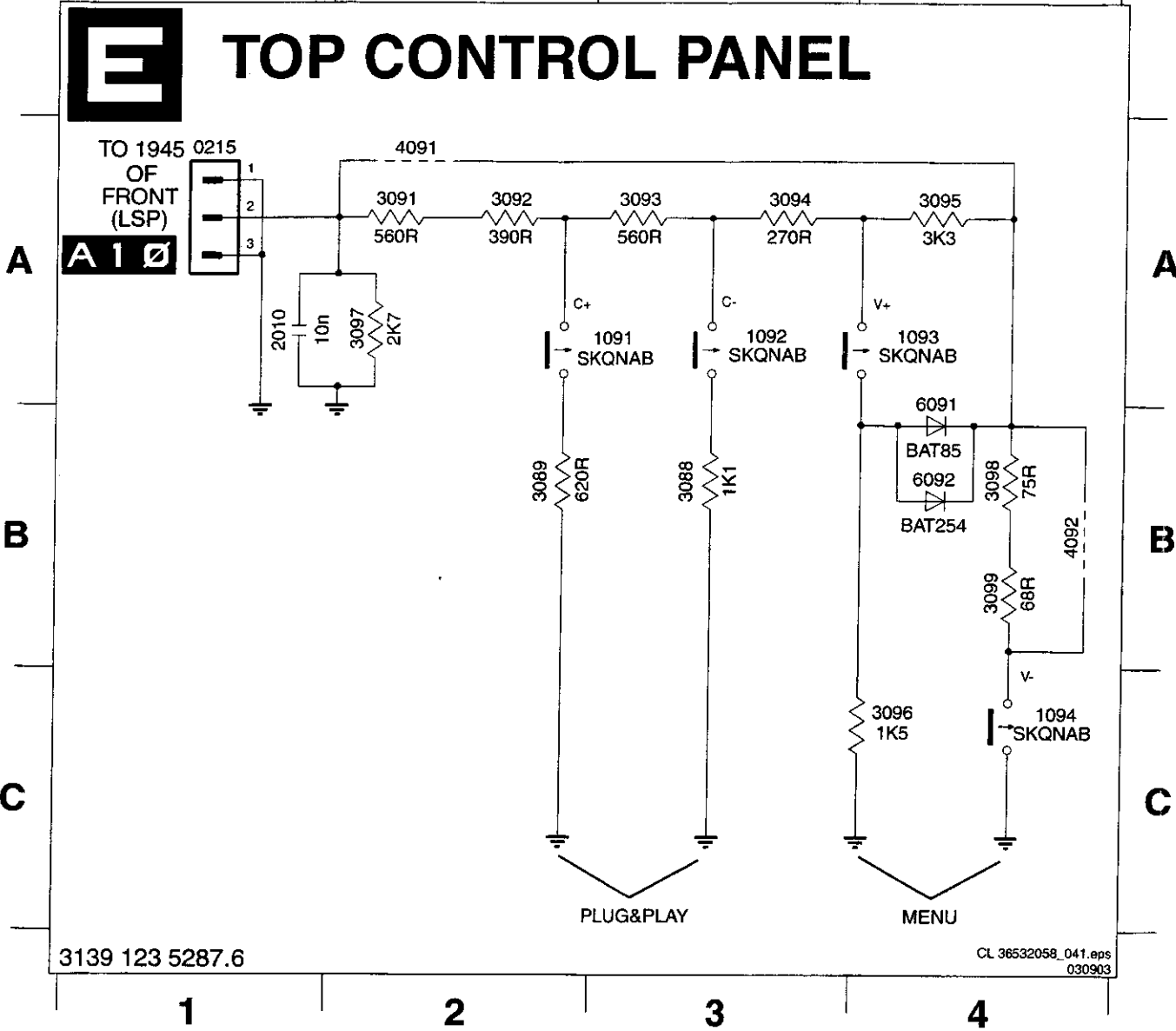
0215 A1	1092 A3	1094 C4	3088 B3	3091 A2	3093 A3	3095 A4	3097 A2	3099 B4	4092 B4	6092 B4
1091 A3	1093 A4	2010 A1	3089 B2	3092 A2	3094 A3	3096 C4	3098 B4	4091 A2	6091 B4	

1

2

3

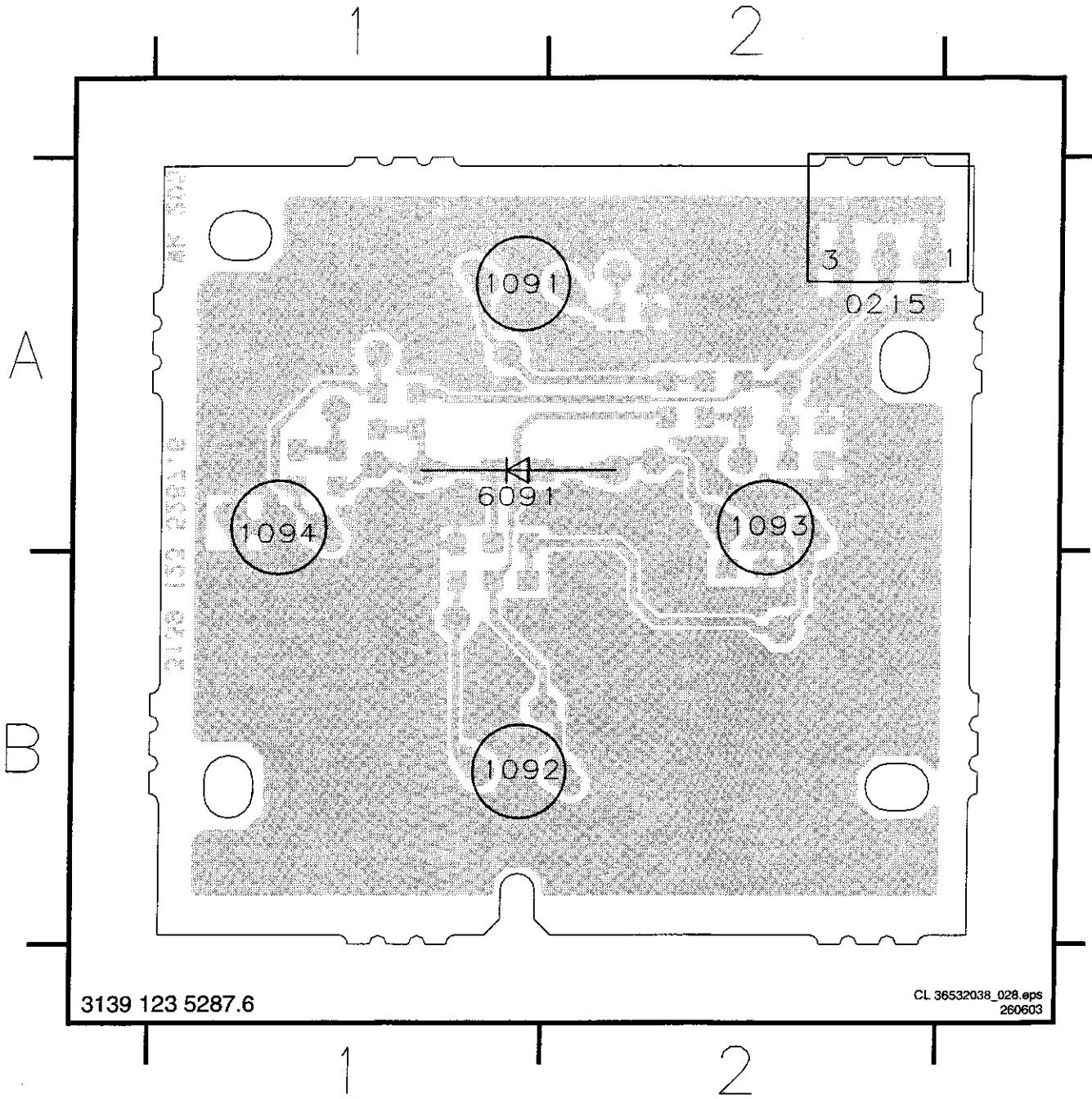
4



Personal Notes:

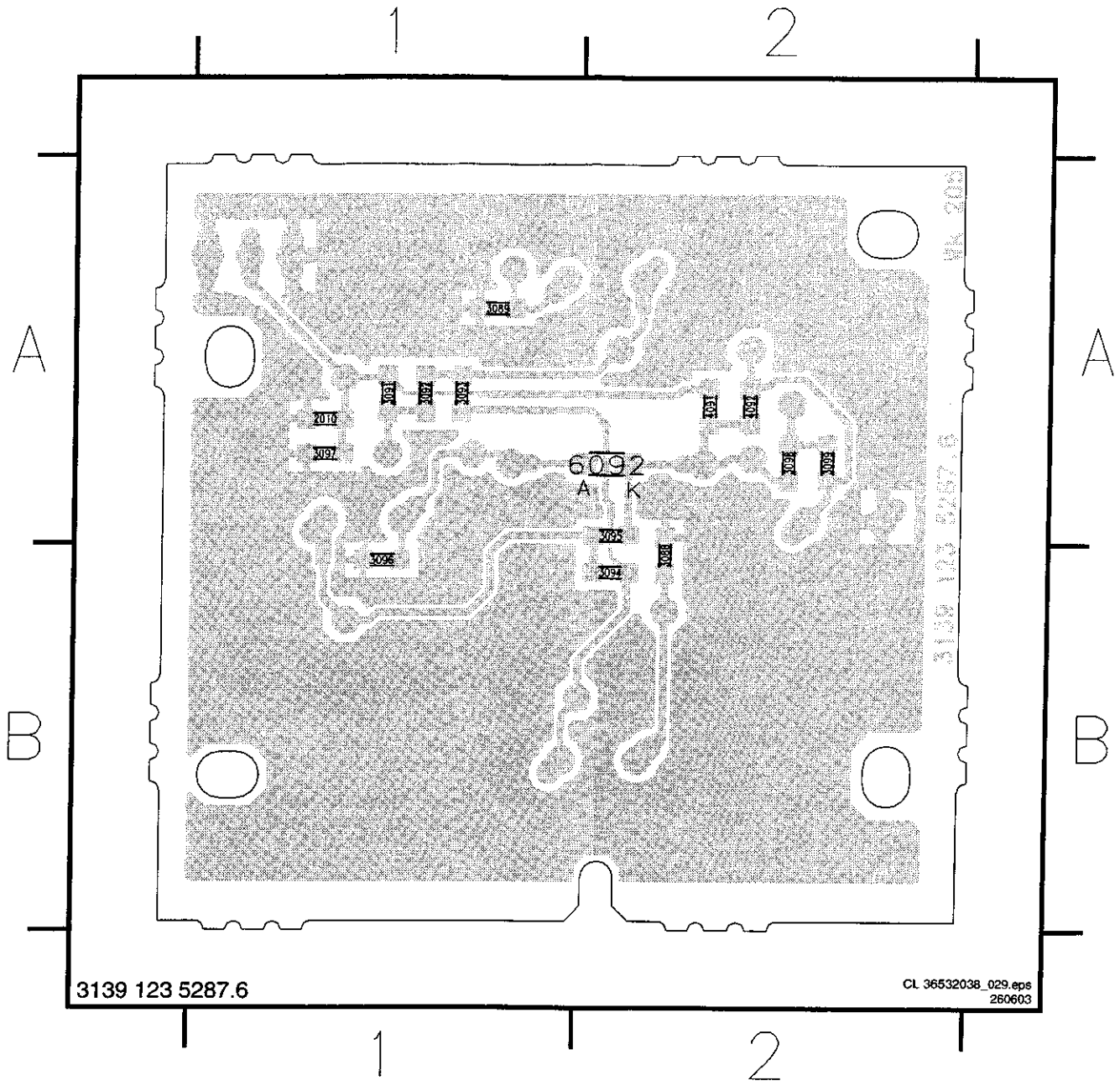
Layout Top Control Panel (Top Side)

0215 A2 1091 A1 1092 B1 1093 A2 1094 A1 6091 A1



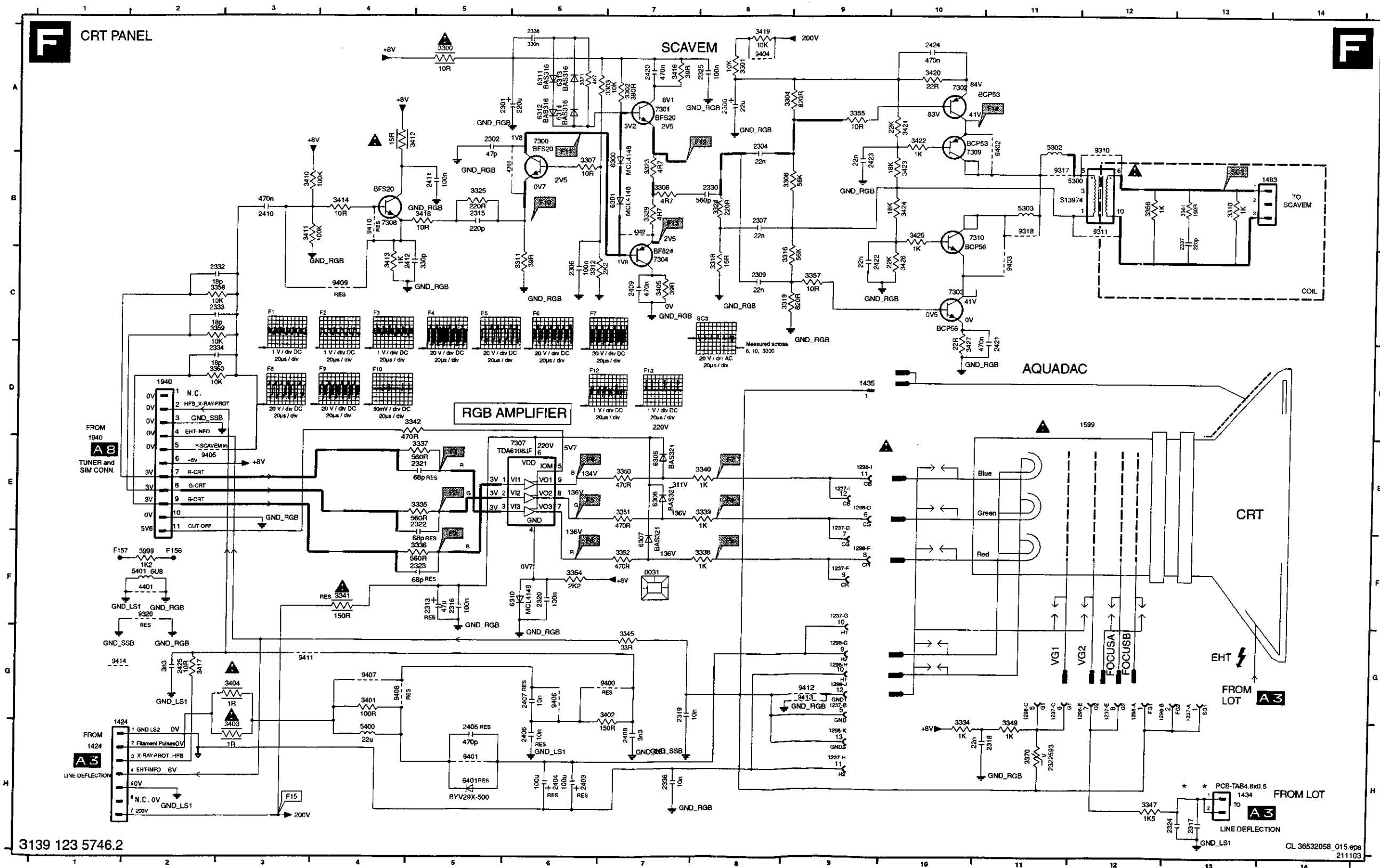
Layout Top Control Panel (Bottom Side)

2010 A1 3089 A1 3092 A1 3094 B2 3096 B1 3098 A2 4091 A2 6092 A2
3088 B2 3091 A1 3093 A1 3095 A2 3097 A1 3099 A2 4092 A2

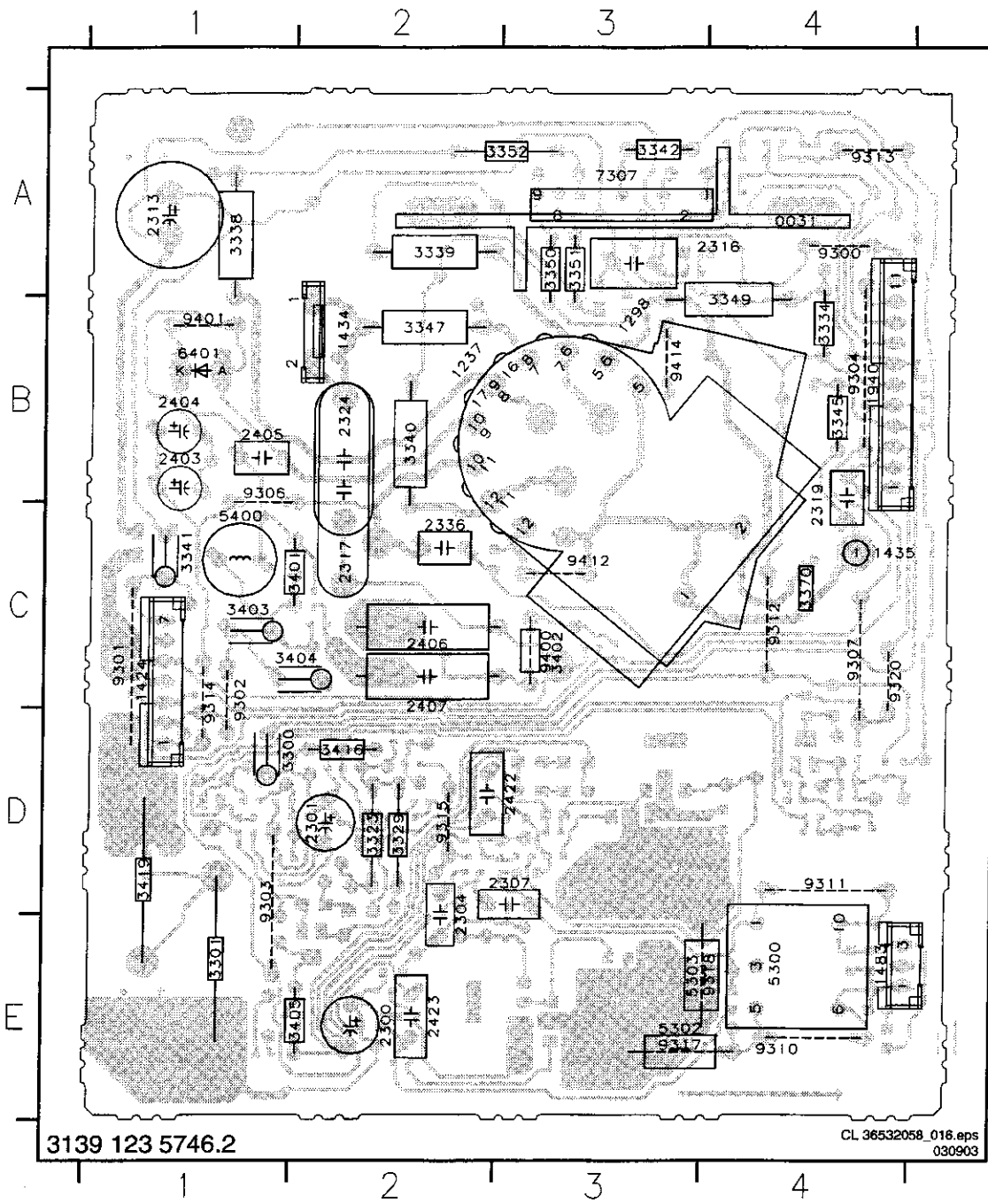


CRT Panel

0031 F7	1298-B G12	1434 H13	2313 F5	2325 A8	2406 H6	2424 A10	3311 C6	3336 F5	3351 E7	3371 A6	3416 A7	3427 D10	6301 B7	7301 A7	9316 B11	9409 C4
1237-A G13	1298-C G11	1435 D9	2316 B5	2330 B8	2407 G6	2425 G2	3312 C6	3337 E5	3352 F7	3401 G4	3417 G2	3999 F2	6305 E7	7302 A10	9320 F2	9410 B4
1237-B G9	1298-D E9	1483 B13	2318 F5	2332 C2	2408 H7	3300 A5	3318 C8	3338 F8	3354 F9	3402 G7	3418 B5	4301 B5	6306 E7	7303 C10	9400 G7	9411 G3
1237-C G11	1298-E G12	1940 D2	2317 H13	2333 C2	2409 C7	3301 A8	3318 C8	3339 E8	3355 A9	3403 H3	3419 A8	4302 B7	6307 F7	7304 C7	9401 H5	9412 G9
1237-D E9	1298-F F9	2300 A8	2318 H11	2334 D2	2410 B3	3302 A7	3319 C8	3340 E8	3356 B12	3404 G3	3420 A10	4401 F2	6310 F6	7307 E6	9402 A11	9413 G9
1237-E G12	1298-G G9	2301 A5	2319 G7	2336 H7	2411 B5	3303 A7	3323 B7	3341 F4	3357 C9	3405 C7	3421 A10	5300 B11	6311 A6	7308 B4	9403 C11	9414 G1
1237-F F9	1298-H G9	2302 A5	2320 F6	2337 B13	2412 C4	3304 A8	3324 B8	3342 D5	3358 C2	3410 B3	3422 A10	5302 A11	6312 A6	7309 A10	9404 A8	
1237-G F9	1298-I E9	2304 A6	2321 E5	2338 A6	2420 A7	3306 B7	3325 B5	3345 G7	3359 C2	3411 B3	3423 B10	5303 B11	6313 A6	7310 B10	9405 E2	
1237-H H9	1298-J G9	2306 C6	2322 E5	2403 H6	2421 D11	3307 B6	3329 B7	3347 H12	3360 D2	3412 A4	3424 B10	5400 H4	6314 A6	9310 A12	9406 G8	
1237-I E9	1298-K H8	2307 B8	2323 F5	2404 H6	2422 C9	3308 B8	3334 H10	3349 H11	3361 B11	3413 C4	3425 B10	5401 F2	6401 H5	9311 B12	9407 G4	
1298-A G12	1424 H2	2309 C8	2324 H13	2405 H5	2423 B9	3310 B13	3335 E5	3350 E7	3370 H13	3414 B4	3426 C10	6300 B7	7300 A6	9317 B11	9408 G4	

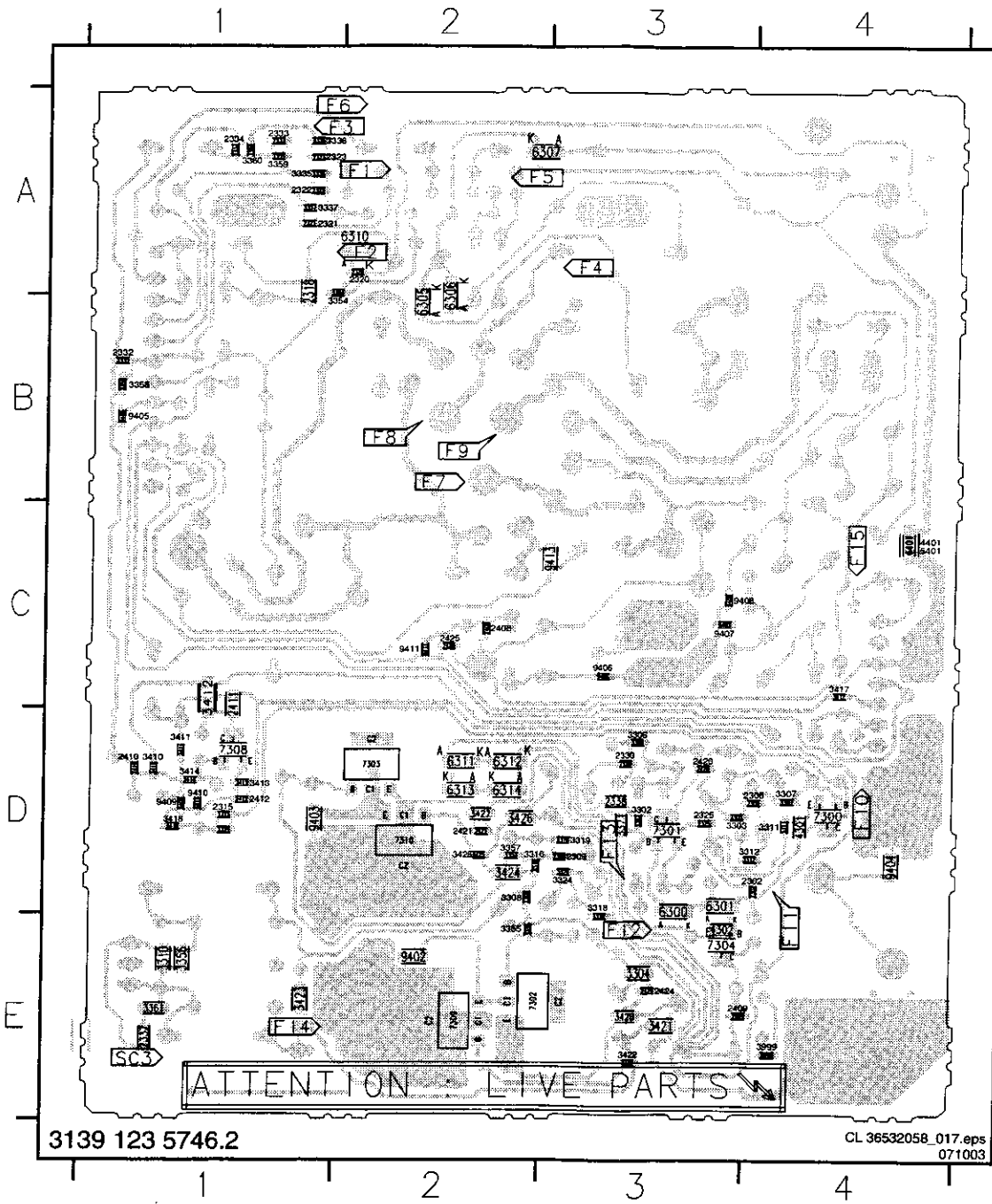


Layout CRT Panel (Top Side)



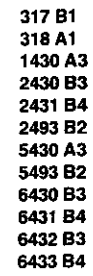
- 0031 A4 9400 C
- 1237 B2 9401 F
- 1298 B3 9412 C
- 1424 C1 9414 F
- 1434 B2
- 1435 C4
- 1483 F4
- 1940 B4
- 2300 E2
- 2301 D2
- 2304 E2
- 2307 D3
- 2313 A1
- 2316 A4
- 2317 C2
- 2319 C4
- 2324 B2
- 2336 C2
- 2403 B1
- 2404 B1
- 2405 B1
- 2406 C2
- 2407 C2
- 2422 D3
- 2423 E2
- 3300 D1
- 3301 E1
- 3323 D2
- 3329 D2
- 3334 B4
- 3338 A1
- 3339 A2
- 3340 B2
- 3341 C1
- 3342 A3
- 3345 B4
- 3347 B2
- 3349 B4
- 3350 A3
- 3351 A3
- 3352 A3
- 3370 C4
- 3401 C2
- 3402 C3
- 3403 C1
- 3404 C2
- 3405 E2
- 3416 D2
- 3419 D1
- 5300 E4
- 5302 E3
- 5303 E3
- 5400 C1
- 6401 B1
- 7307 A3
- 9300 A4
- 9301 C1
- 9302 C1
- 9303 D1
- 9304 B4
- 9306 B1
- 9307 C4
- 9310 E4
- 9311 D4
- 9312 C4
- 9313 A4
- 9314 C1
- 9315 D2
- 9317 E3
- 9318 E4
- 9320 C4

Layout CRT Panel (Bottom Side)

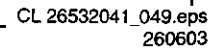


- 2302 D4 5401
- 2306 D4 6300
- 2309 D3 6301
- 2315 D1 6305
- 2318 A1 6306
- 2320 A2 6307
- 2321 A1 6310
- 2322 A1 6311
- 2323 A1 6312
- 2325 D3 6313
- 2330 D3 6314
- 2332 B1 7300
- 2333 A1 7301
- 2334 A1 7302
- 2337 E1 7303
- 2338 D3 7304
- 2408 C2 7308
- 2409 E3 7309
- 2410 D1 7310
- 2411 C1 9402
- 2412 D1 9403
- 2420 D3 9404
- 2421 D2 9405
- 2424 E3 9406
- 2425 C2 9407
- 3302 D3 9408
- 3303 D3 9409
- 3304 E3 9410
- 3306 D3 9411
- 3307 D4 9413
- 3308 D2
- 3310 E1
- 3311 D4
- 3312 D4
- 3316 D2
- 3318 E3
- 3319 D3
- 3324 D3
- 3325 D1
- 3335 A1
- 3336 A1
- 3337 A1
- 3354 A1
- 3355 E2
- 3356 E1
- 3357 D2
- 3358 B1
- 3359 A1
- 3360 A1
- 3361 E1
- 3371 D3
- 3410 D1
- 3411 D1
- 3412 C1
- 3413 D1
- 3414 D1
- 3417 C4
- 3418 D1
- 3420 E3
- 3421 E3
- 3422 E3
- 3423 E1
- 3424 D2
- 3425 D2
- 3426 D2
- 3427 D2
- 3999 E4
- 4301 D4
- 4302 E3
- 4401 C4

G DC-SHIFT

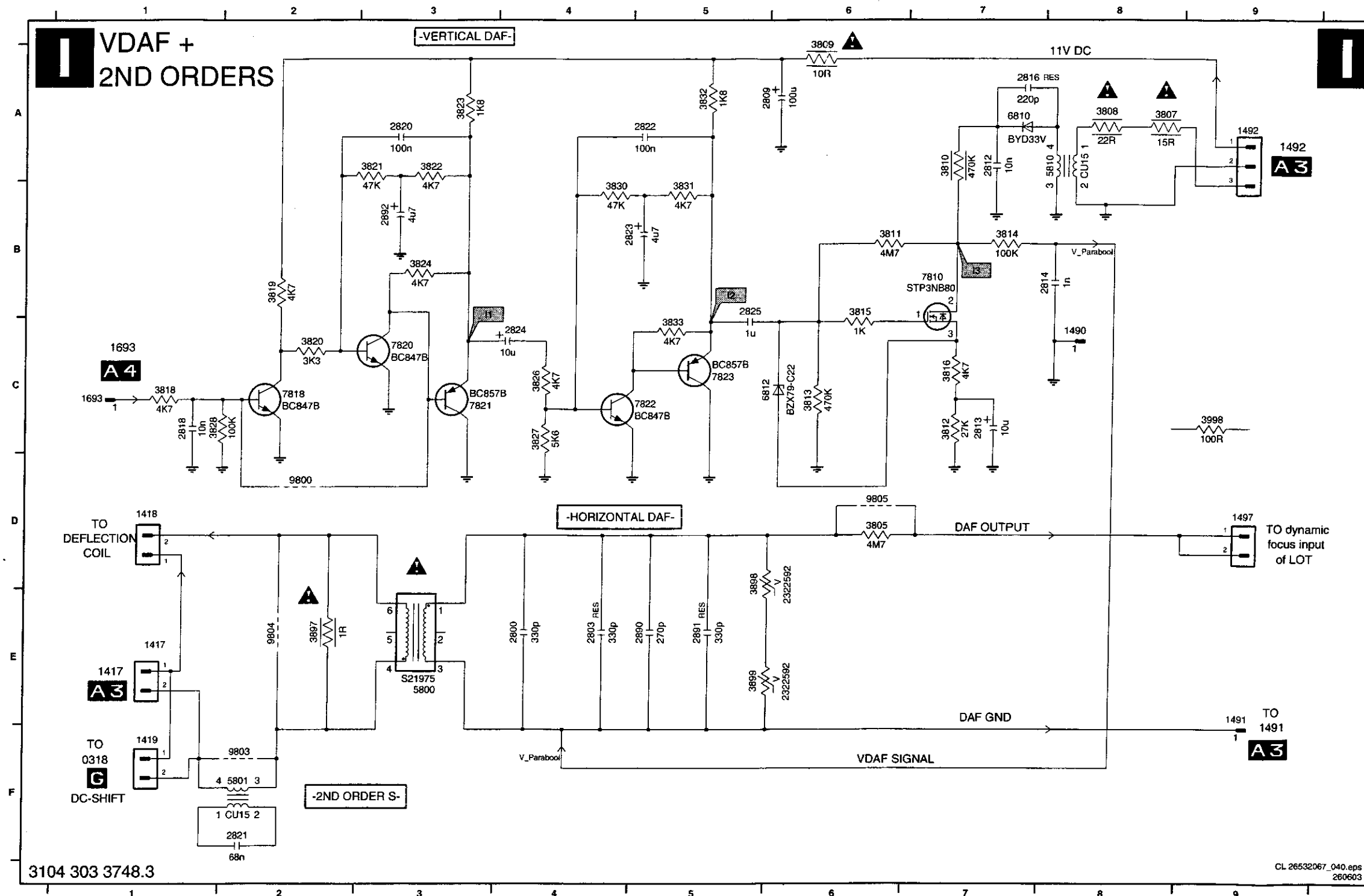


317	A3	2430	A2	5430	A1	6431	A2	9493	A3
318	A2	2431	A1	5493	A3	6432	A2		
1430	A2	2493	A3	6430	A2	6433	A2		



This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

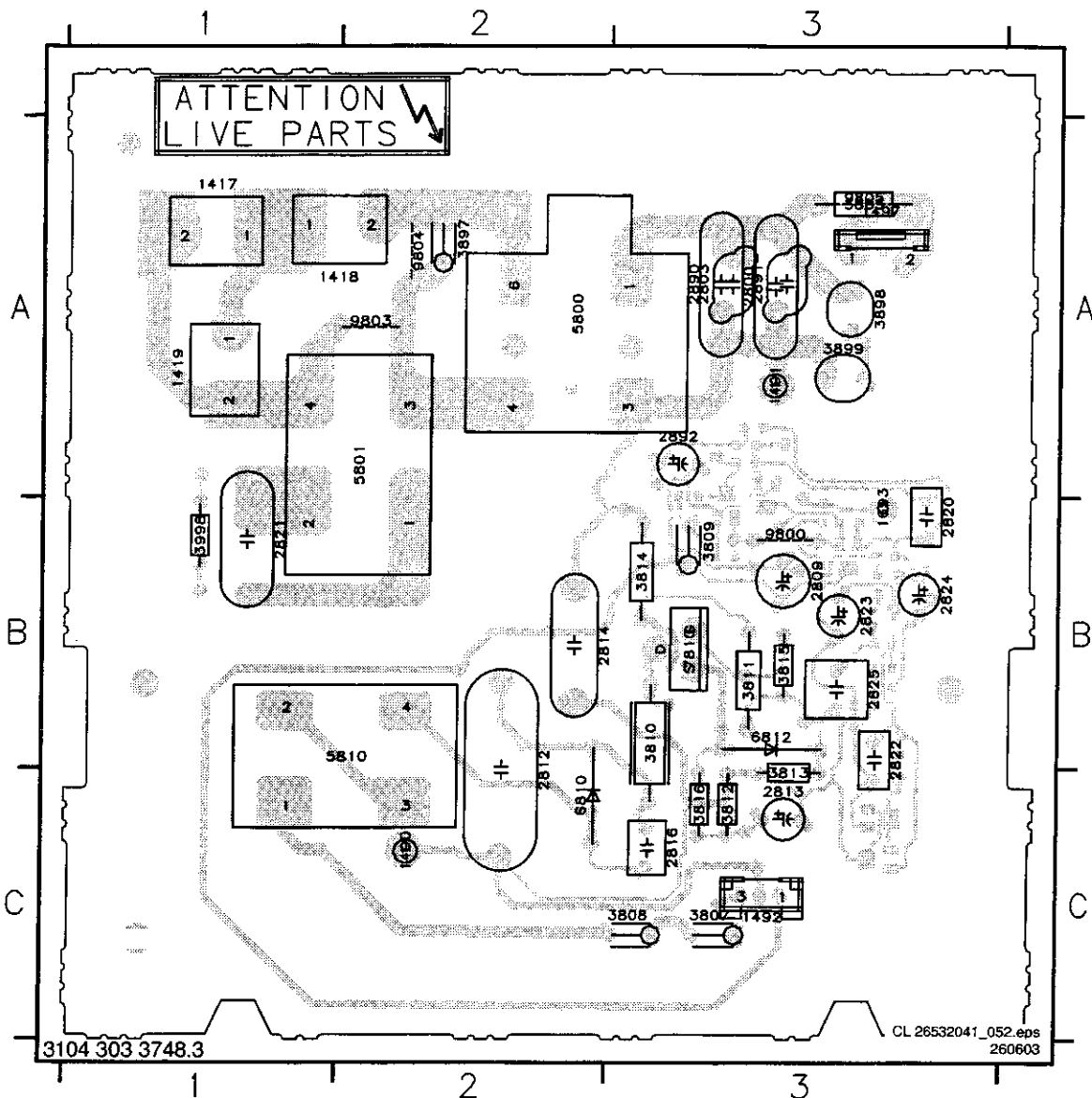
VDAF Panel + 2nd Orders



1417 E1 7818 C2
1418 D1 7820 C3
1419 F1 7821 C3
1490 C8 7822 C5
1491 E9 7823 C5
1492 A9 9800 D2
1497 D9 9803 F2
1693 C1 9804 E2
2800 E4 9805 D6
2803 E4
2809 A5
2812 A7
2813 C7
2814 B8
2816 A7
2818 C1
2820 A3
2821 F2
2822 A5
2823 B4
2824 C4
2825 B5
2890 E5
2891 E5
2892 B3
3805 D6
3807 A8
3808 A8
3809 A6
3810 A7
3811 B6
3812 C7
3813 C6
3814 B7
3815 B6
3816 C7
3818 C1
3819 B2
3820 C2
3821 A3
3822 A3
3823 A3
3824 B3
3826 C4
3827 C4
3828 C1
3830 B4
3831 B5
3832 A5
3833 C5
3897 E2
3898 D5
3899 E5
3998 C9
5800 E3
5801 F2
5810 A8
6810 A7
6812 C6
7810 B7

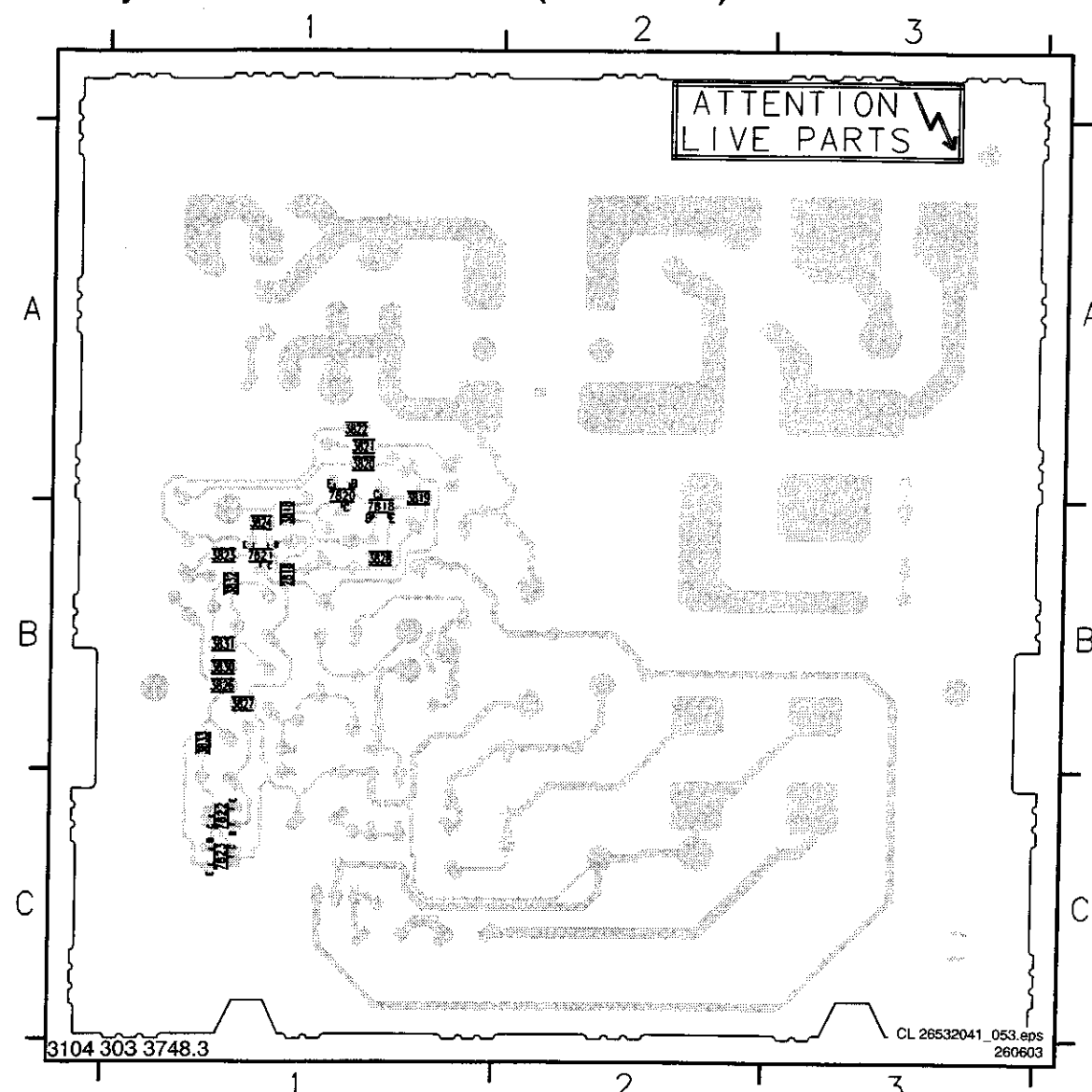
M VDAF+2ND ORDER S				
Item	289F	289F/32RF	289F/38RF	Description
1492	X	X	X	3p
1693	X	X	X	1p
2800	X	X	X	330pF
2803	X	X	X	470pF
2809	X	X	X	390pF
2809	X	X	X	100pF
2812	X	X	X	10nF
2813	X	X	X	10nF
2814	X	X	X	1nF
2821	X	X	X	68nF
2822	X	X	X	4nF
2824	X	X	X	10pF
2825	X	X	X	10pF
2890	X	X	X	270pF
2890	X	X	X	220pF
2890	X	X	X	470pF
2890	X	X	X	390pF
3807	X	X	X	15R
3808	X	X	X	15R
3809	X	X	X	10R
3810	X	X	X	470kR
3811	X	X	X	4.7M
3812	X	X	X	27kR
3813	X	X	X	470kR
3814	X	X	X	100kR
3815	X	X	X	1kR
3816	X	X	X	4.7kR
3818	X	X	X	2.2kR
3818	X	X	X	33kR
3820	X	X	X	Jumper
3821	X	X	X	Jumper
3822	X	X	X	Jumper
3823	X	X	X	1.5kR
3824	X	X	X	33kR
3826	X	X	X	3.3kR
3827	X	X	X	5.6kR
3828	X	X	X	100kR
3830	X	X	X	47kR
3831	X	X	X	4.7kR
3832	X	X	X	1.8kR
3833	X	X	X	4.7kR
5801	X	X	X	Transformer
5810	X	X	X	Bridge coil
6810	X	X	X	BYD33V
6812	X	X	X	BZX79-C22
7810	X	X	X	STP3NB80FP
7818	X	X	X	BC847B
7822	X	X	X	BC847B
7823	X	X	X	BC857B
9800	X	X	X	Wire
9803	X	X	X	Wire

Layout VDAF + 2ND Order Panel (Top Side)



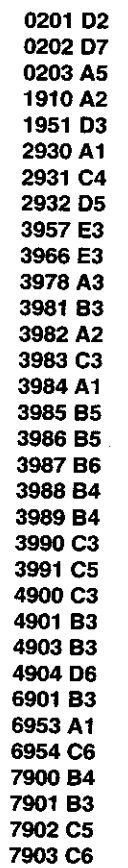
- 1417 A1
- 1418 A1
- 1419 A1
- 1490 C2
- 1491 A3
- 1492 C3
- 1497 A3
- 1693 B3
- 2800 A3
- 2803 A3
- 2809 B3
- 2812 C2
- 2813 C3
- 2814 B2
- 2816 C3
- 2820 B3
- 2821 B1
- 2822 B3
- 2823 B3
- 2824 B3
- 2825 B3
- 2890 A3
- 2891 A3
- 2892 A3
- 3805 A3
- 3807 C3
- 3808 C3
- 3809 B3
- 3810 B3
- 3811 B3
- 3812 C3
- 3813 C3
- 3814 B3
- 3815 B3
- 3816 C3
- 3897 A2
- 3898 A3
- 3899 A3
- 3998 B1
- 5800 A2
- 5801 A1
- 5810 B2
- 6810 C2
- 6812 B3
- 7810 B3
- 9800 B3
- 9803 A2
- 9804 A2
- 9805 A3

Layout VDAF + 2ND Order Panel (Bottom Side)



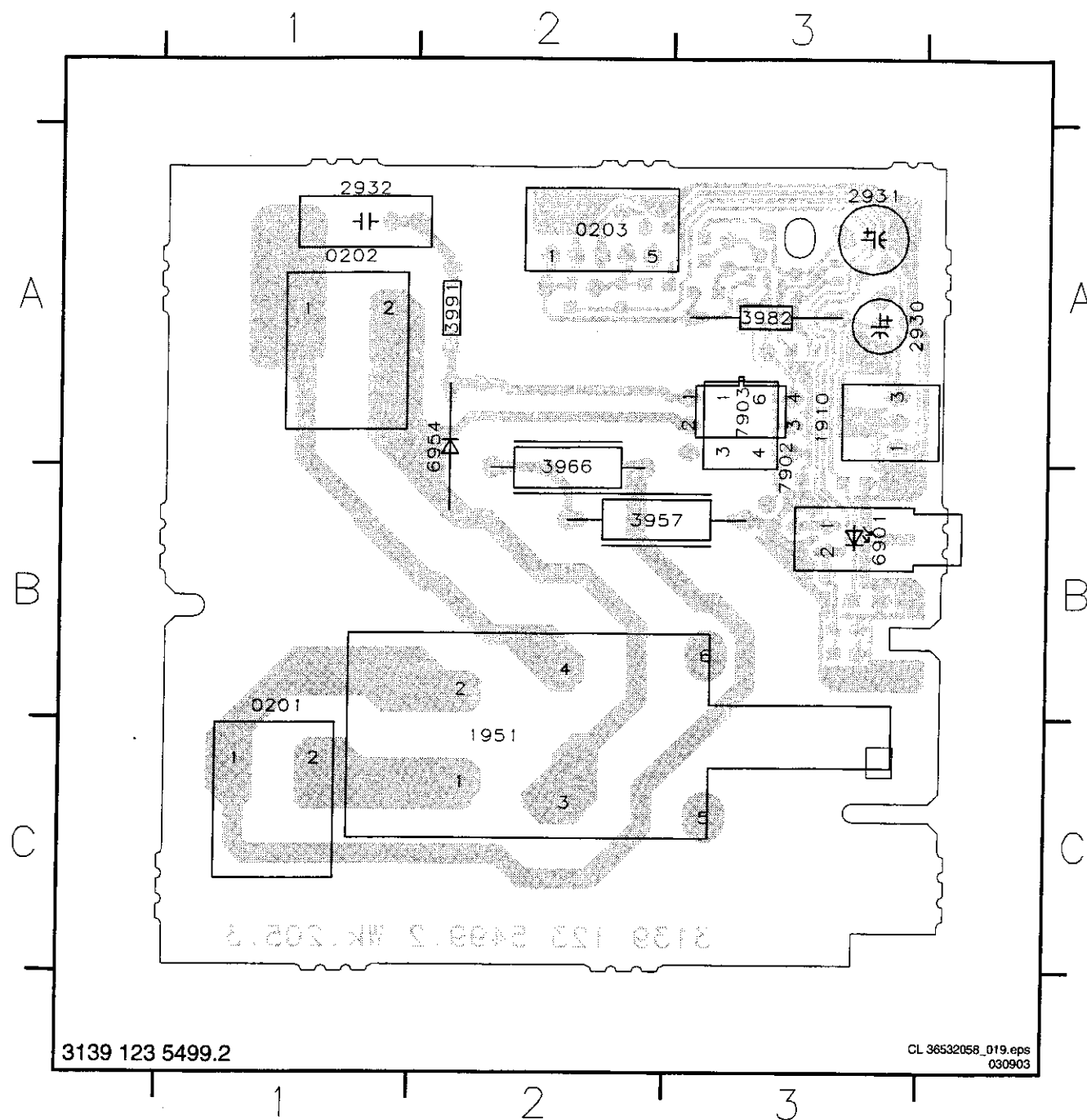
- 2818 B1
- 3818 B1
- 3819 A1
- 3820 A1
- 3821 A1
- 3822 A1
- 3823 B1
- 3824 B1
- 3826 B1
- 3827 B1
- 3828 B1
- 3830 B1
- 3831 B1
- 3832 B1
- 3833 B1
- 7818 B1
- 7820 A1
- 7821 B1
- 7822 C1
- 7823 C1

J FRONT INTERFACE PANEL

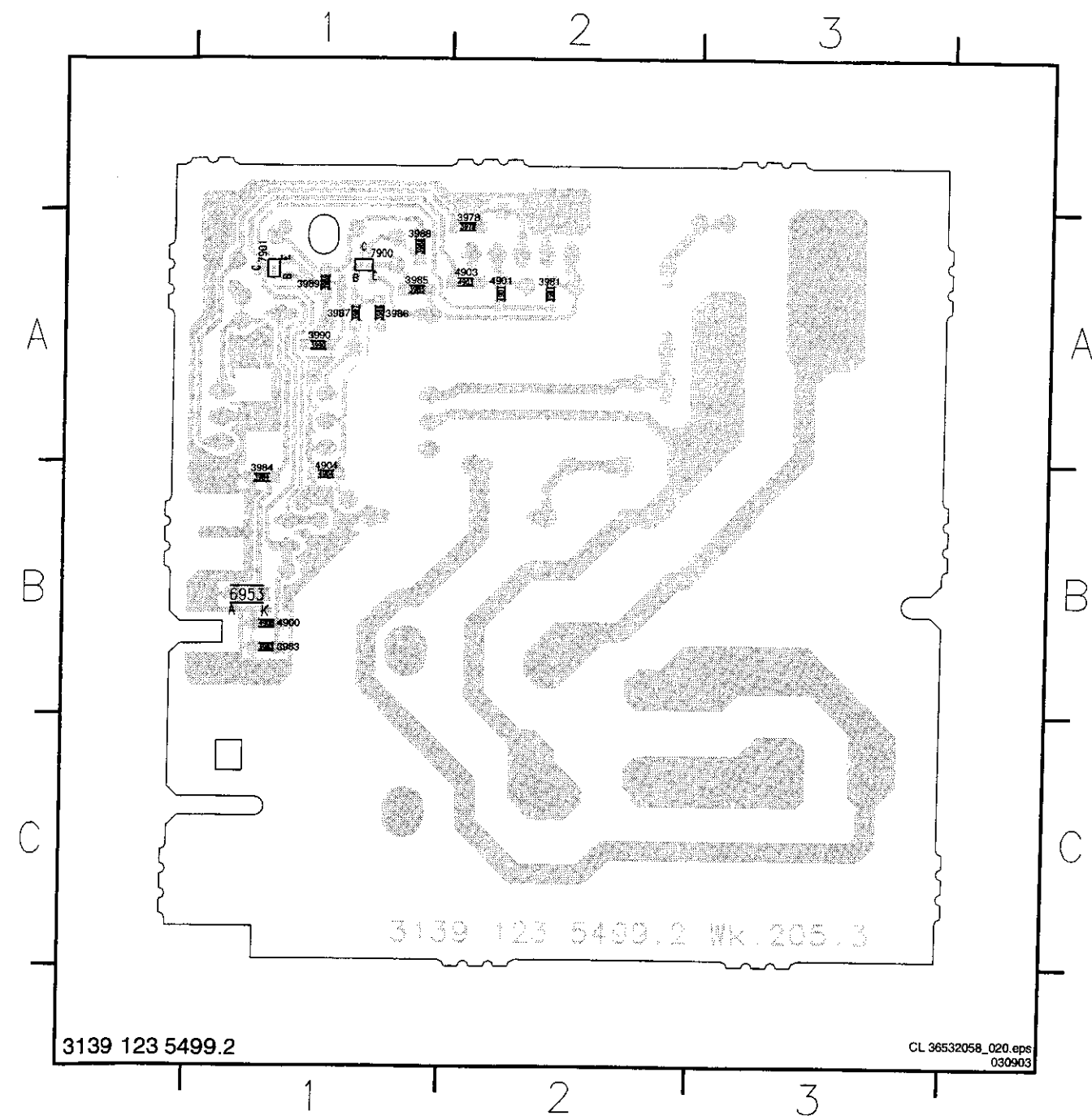


Layout Front Interface Panel (Top Side)

0201 B1 0202 A1 0203 A2 1910 A3 1951 C2 2930 A3 2931 A3 2932 A1 3957 B2 3966 B2 3982 A3 3991 A2 6901 B3 6954 A2 7902 B3 7903 A3



Layout Front Interface Panel (Bottom Side)

3978 A2 3983 B1 3985 A1 3987 A1 3989 A1 4900 B1 4903 A2 6953 B1 7901 A1
3981 A2 3984 B1 3986 A1 3988 A1 3990 A1 4901 A2 4904 B1 7900 A1

8. Electrical Alignments

Index of this chapter:

1. General alignment conditions
2. Hardware alignments
3. Software alignments
4. Option settings

8.1 General Alignment Conditions

8.1.1 Default Alignment Settings

Perform all electrical adjustments under the following conditions:

- Power supply voltage: 230 V_{ac} / 50 Hz ($\pm 10\%$).
- Connect the set to the mains via an isolation transformer with low internal resistance.
- Allow the set to warm up for approximately 20 to 30 minutes.
- Measure voltages and waveforms in relation to chassis ground (with the exception of the voltages on the primary side of the power supply).

Caution: never use heatsinks as ground.

- Test probe: $R_i > 10\text{ Mohm}$, $C_i < 20\text{ pF}$.
- Use an isolated trimmer/screwdriver to perform alignments.

Perform all electrical adjustments with the following default settings (for all CRTs):

- Choose "Natural" picture mode with the "Smart Picture" button on the remote control.
- Set "Dynamic Contrast" and "Active Control" to "off" (if either one of them is present).
- Set "Brightness" to aligned value unless otherwise specified.

8.1.2 Adjustment Sequence

Use the following adjustment sequence:

1. Set the correct TV-set OPTIONS as described in paragraph "Options". After storing, re-start the set.
2. Rough adjustment of VG2 and FOCUS.
3. RF-AGC alignment.
4. IF-PLL OFFSET adjustment.
5. Rough adjustment of GEOMETRY.
6. Allow the set to warm up.
7. Precise adjustment of VG2 and FOCUS.
8. Precise adjustment of GEOMETRY.
9. PIP alignments (if present).
10. COLOUR alignments.
11. Other software alignments.

8.2 Hardware Alignments

Notes:

- The Service Alignment Mode (SAM) is described in chapter 5 "Service Modes, Error Codes, and Fault Finding".
- Use the cursor-, menu-, and OK-buttons of the remote control (RC) transmitter for navigation.

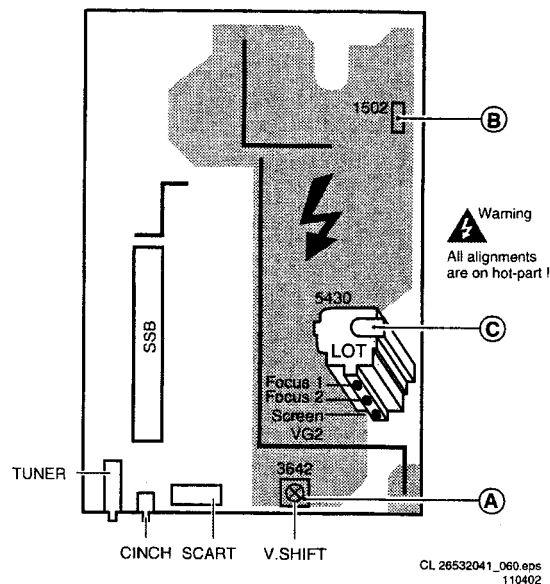


Figure 8-1 Top view LSP

8.2.1 Vg2 Adjustment

Notes:

- For adjusting the VG2 in A10 sets, the vertical scan could be disabled by the VSD bit (Vertical Scan Disable). However, do **not** use this option in this chassis, as it will lead to a "beam current" protection!
- Also, the option "VG2" in the SAM does not function yet. Please, do **not** use!

In the frame-blanking period of the R, G, and B signals applied to the CRT, the video processor inserts a measuring pulse with different DC levels. Measure the black level pulse during the vertical flyback at the RGB cathodes of the CRT.

1. Connect the RF output of a pattern generator to the antenna input. Input a "black" picture (blank screen on CRT without any OSD info) test pattern.
2. Use the MENU key to enter the "user" menu, select "Picture", and set "Brightness" and "Contrast" to minimum.
3. Set the oscilloscope to 20 V/div and the time base to 20 us/div. Use external triggering on the vertical pulse.
Caution: use a trigger point on the "cold" side!
4. Ground the scope on the CRT panel ("cold" side) and connect a 10:1 probe to one of the cathodes of the picture tube socket (see circuit diagram F).
5. Measure at test points F017, F018 and F019 on the picture tube socket the DC-level of the measuring pulse (1st full line after the frame blanking) with respect to earth.
6. Select the pin with the highest level found and adjust V_{cutoff} by means of the Vg2-potmeter (lowest-one) on the Line Output Transformer (LOT) to 165 $\pm$ 5 V_{dc} (for all screen sizes).
7. Reset "Contrast" and "Brightness" to their original values.

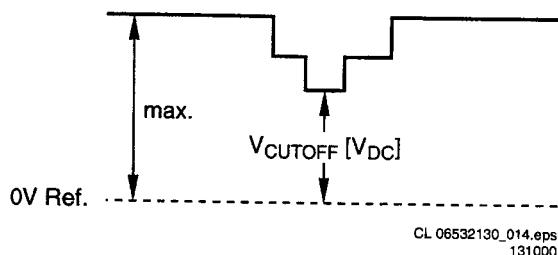


Figure 8-2 Waveform Vg2 alignment

8.2.2 Focus alignment

The LOT has the following outline:

- Focus 1 (F1) = Static alignment (black wire).
- Focus 2 (F2) = Dynamic alignment (red wire).

1. Use an external video pattern generator to input a "circle" or "crosshatch" test pattern to the set.
2. Choose "Natural" picture mode with the "Smart Picture" button on the remote control transmitter.
3. Adjust the "dynamic focus 2" potentiometer (in the middle on the LOT) until the horizontal lines at the centre of the screen are of minimum width without introducing a visible haze.
4. Adjust the "static focus 1" potentiometer (highest of the LOT) until the horizontal lines at the sides of the screen are of minimum width without introducing a visible haze.
5. Repeat these two steps to achieve the best result.

8.3 Software Alignments

Put the set in the SAM (see the "Service Modes, Error Codes and Fault Finding" section). The SAM menu will now appear on the screen. The different alignment parameters are described further on.

Notes:

- All changes to menu items and alignments must be stored manually.
- If an empty EAROM (permanent memory) is detected, all settings are set to pre-programmed default values, so the set must be re-aligned.

8.3.1 TUNER

AGC

1. Set an external pattern generator to a colour bar video signal and connect the RF output to the aerial input of the TV. Set the amplitude to 10 mV and the frequency to 475.25 MHz. Use system PAL B/G if possible, otherwise match the system of your generator with the received signal in the set.
2. Put the set in the SAM mode.
3. Select via the TUNER menu, the AGC sub-menu.
4. Connect a DC multi-meter to pin 1 of the tuner (item 1200 on the LSP).
5. Adjust the AGC until the voltage at pin 1 of the tuner is 3.3 V (+/- 0.1 V). The value can be incremented or decremented by pressing the right/left CURSOR button on the RC.
6. After alignment, save the value(s) with the STORE command in the SAM main menu.

IF PLL OFFSET

No adjustments needed: default value is "35".

If the mentioned default value does not give the required result, use the following alignment method:

1. Set an external pattern generator to a crosshatch video signal and connect the RF output to the aerial input of the TV. Set the amplitude to 10 mV and the frequency to 475.25 MHz. Use system PAL B/G if possible, otherwise match the system of your generator with the received signal in the set.
 - For "Negative modulation", the **sound** signal must be a non-modulated FM signal.
 - For "Positive modulation", the **video** signal must have high modulation (100% or above).
2. Put the set in the SAM mode.
3. Select via the TUNER menu, the IF-PLL OFFSET sub-menu.
4. Measure and align:
 - For "Negative modulation", on SCART pin 1 or 3 (**audio** out): Adjust IF-PLL OFFSET until the largest Signal Noise Ratio (SNR) is reached.
 - For "Positive modulation", on SCART pin 19 (**video** out): Adjust IF-PLL OFFSET until you get minimal V-sync disturbance.

8.3.2 GEOMETRY

Notes:

- Set an **external** pattern generator to a crosshatch video signal and connect the RF output to the aerial input of the TV. Set the amplitude at least 1 mV_{rms} (60 dBuV) and the frequency to 475.25 MHz. Use system PAL B/G if possible, otherwise match the system of your generator with the received signal in the set.
Note: Do **not** use the internal test pattern from the GEOMETRY menu!
- Use the default alignment settings, but set "Brightness" to "32".
- For wide screen models, set to "wide screen" mode, for "classic" models, set to "4:3".
- After alignment, save the value(s) with the STORE command in the SAM main menu.

Service tip: When the set is equipped with a rotation coil, use this menu item to check its correct alignment. If alignment is not correct, go to the user MENU, choose FEATURES, and select ROTATION. With the use of a crosshatch test pattern, align it to a correct horizontal picture.

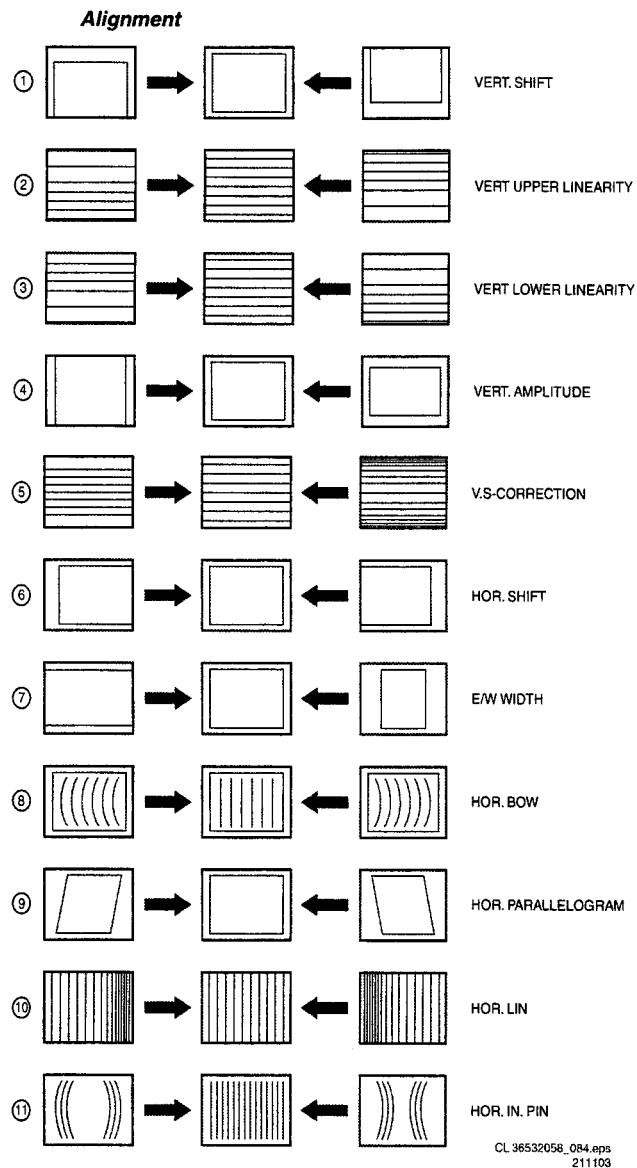


Figure 8-3 Geometry Alignments

- Before starting the vertical alignment, set (in SAM) the following parameters to "0":
 - VER. SHIFT,
 - VER. SCOR,
 - VER. U_LIN,
 - VER. L_LIN.
- Set SERV. BLK to "on", to blank the lower half of the screen.
- Adjust the "VERTICAL SHIFT" potentiometer (R3642 on the LSP) until the picture is centred (to the mechanical centre of the picture tube), and switch SERV. BLK to "off".
- Adjust VER. U_LIN and VER. L_LIN such, that upper and lower horizontal lines of the crosshatch pattern are just visible.

Use then the following software regulations to modify the geometry:

- VER. AMPL (Vertical Amplitude): Align for the vertical picture centre, range from -32 to +32.
- VER. SHIFT (Vertical Shift): Compensating for any gain error in amplifier, adjust range from -32 to +32 to the proper amplitude.
- VER. SCOR (Vertical S-Correction): Align for equal height of the blocks in the top, the bottom and the middle, range from -63 to +63.

- HOR. SHIFT (Horizontal Shift): Adjust for the horizontal centre of the screen, range from -127 to +128.

Next step is to align the East/West geometry.

- First, set the parameters EW_5 and EW_6 to "0"
- EW. WIDTH (East-West Width): This sets the (overall) horizontal size of the picture on the screen. Range from -63 to +63 (with the following EW alignments, these lines can be straightened).
- EW_1 (East-West parameter 1): Has effect on the length of the upper part of the vertical E/W lines.
- EW_2 (East-West parameter 2): Has effect on the length of the vertical E/W lines just below EW_1.
- EW_3 (East-West parameter 3): Has effect on the length of the vertical E/W lines just below EW_2.
- EW_4 (East-West parameter 4): Has effect on the length of the vertical E/W lines just below EW_3.
- EW_5 (East-West parameter 5): Has effect on the length of the vertical E/W lines just below EW_4.
- EW_6 (East-West parameter 6): Has effect on the length of the vertical E/W lines just below EW_5.
- EW_7 (East-West parameter 7): Has effect on the length of the vertical E/W lines just below EW_6.
- EW_8 (East-West parameter 8): Has effect on the length of the vertical E/W lines just below EW_7.
- EW_9 (East-West parameter 9): Has effect on the length of the vertical E/W lines just below EW_8.
- EW_10 (East-West parameters 10): Has effect on the length of the lowest part of the vertical E/W lines.
- HOR. BOW (Horizontal Bow): Align the EW parabola to be symmetrical, range from -63 to +63.
- HOR. PARALLEL (Horizontal Parallel): Align for straight vertical lines on the picture sides, range from -63 to +63.
- HOR. LIN (Horizontal Linearity): Align for equal width of horizontal blocks on the left, the right and the centre, range from 0 to +127.
- HOR. IN_PIN (Horizontal Inner Pincushion): Align for the inner straight vertical lines, range from 0 to +32.

8.3.3 WHITE TONE

In the WHITE TONE sub menu, the colour values for the different colour temperatures can be changed.

The colour temperature mode (NORMAL, DELTA COOL, DELTA WARM) can be selected per colour (R, G, and B) with the RIGHT/LEFT cursor keys. The mode or value can be changed with the UP/DOWN cursor keys.

First, the values for the NORMAL colour temperature must be selected. Then the offset values for the DELTA COOL and DELTA WARM mode can be selected. Note that the alignment values are non-linear.

Alignment

No adjustments needed. Use the given default values:

- BMT CutOffFrq: "50Hz".
- Incredible SND: "60%".
- VDolby: "100%".

Table 8-1 White tone alignment (default values)

Parameter	28PW8609/12	29PT8509/12	32PW8609/12
Normal Red	-4	+11	+1
Normal Green	-9	+4	-7
Normal Blue	-6	+12	-2
Red BL Offset	7		
Green BL Offset	7		
Blue BL Offset	7		
Delta Cool Red	7		
Delta Cool Green	15		
Delta Cool Blue	33		
Delta Warm Red	2		
Delta Warm Green	3		
Delta Warm Blue	7		

If the mentioned default value does not give the required result, use the following alignment method:

1. Set the external pattern generator to a 100% white pattern, and connect the RF output to the aerial input of the TV. Set the amplitude at least 1 mV_{rms} (60 dBuV) and the frequency to 475.25 MHz. Use system PAL B/G if possible, otherwise match the system of your generator with the received signal in the set.
2. Set "Smart Picture" to "Natural".
3. Set "Dynamic NR" to "off".
4. Put the set in the SAM mode.
5. Select via the WHITE TONE menu, the PATTERN sub-menu.
6. Set PATTERN to "on".
7. Set NORMAL GREEN to "32".
8. Measure with the colour analyser (Minolta CA100 Colour Analyser or equivalent), calibrated with the spectra, on the centre of the screen.
9. Adjust with the cursor left/right command the Red and Blue register for the right xy-coordinates (see the table below).
10. Repeat the white tone adjustment also for the colour temperatures COOL and WARM.

Table 8-2 White tone alignment (with colour analyser)

White D mode	Temperature	DUV	x	y
Normal	8500 K	+/-0.004	288 +/- 4	300 +/- 4
Cool	11500 K	+/-0.005	273 +/- 5	282 +/- 5
Warm	7000 K	+/-0.005	305 +/- 5	312 +/- 5

8.3.4 SOUND

No adjustments needed. Use the given default values:

- **PRESCALE LEVEL**
 - FM: "+1".
 - NICAM: "+3".
 - EXTAM Gain: "0".
 - PIPMONO: "0".
 - ExtLR-in: "0".
- **TRESHOLD LEVEL**
 - Over Mod Tresh: "+3dB".
 - NIC ErrLmt_Hi: "60".
 - NIC ErrLmt_Lo: "20".
 - NoiseTres SC2: "+2".
 - NoiseHyst SC2: "+4".
- **EFFECTS LEVEL**

8.3.5 SMART SETTINGS

No adjustments needed. Use the given default values:

Table 8-3 Smart settings (default values)

Smart setting	Default
RICH	BGT 55
	COL 55
	CON 100
	SHP 6
	HUE 51
NATURE	BGT 51
	COL 48
	CON 80
	SHP 5
	HUE 51
SOFT	BGT 49
	COL 45
	CON 65
	SHP 4
	HUE 51
MULTI	BGT 51
	COL 48
	CON 85
	SHP 6
	HUE 51
BGT= Brightness, COL= Colour, CON= Contrast, SHP= Sharpness, HUE= Hue (not valid for Europe).	

8.4 Option Settings**8.4.1 Introduction**

The microprocessor communicates with a large number of I2C ICs in the set. To ensure good communication and to make digital diagnosis possible, the microprocessor has to know which ICs to address. The presence / absence of these specific ICs (or functions) is made known by the option codes.

Notes:

- After changing the option(s), save them with the STORE command.
- All changes are disregarded when the OPTIONS submenu is left without using the STORE command.
- The new option setting is only active after the TV is switched "off" and "on" again with the Mains switch (the EAROM is then read again).

8.4.2 Changing options

Options are used to control the presence / absence of certain features and hardware. There are two ways to change the option settings. All changes in the option settings are saved by selecting STORE and pressing the CURSOR RIGHT key. Some changes will only take affect after the set has been switched OFF and ON with the mains switch (cold start).

Changing multiple options by changing option byte values
Option Bytes (OB) makes it possible to set all options very fast. An option byte represents a number of different options. All

options are controlled via eight option bytes (OB0 to OB7). Select an Option Byte you want to change with the CURSOR UP/DOWN keys, and key in the new value. See table for more details. An explanation per option is listed in paragraph "Option Bit Definition".

Changing a single option

It is also possible to change an option one at a time. Therefore, select the option with the CURSOR UP/DOWN keys and change its setting with the LEFT/RIGHT keys.

8.4.3 Option Settings

In the table, you will find the option settings.

Table 8-4 Option bit overview

Byte number	Bit number	Decimal value	Name	28PW8609/12	29PT8509/12	32PW8609/12
OB1	1	2	SCAVM	1	1	1
	5	32	RCMX	0	0	0
	6	64	EQTO	0	0	0
	8	256	WSSB	1	0	1
	12	4096	DGSC	1	1	1
OB2	14	16384	SSHT	1	0	1
	5	32	DBYV	1	1	1
	9	512	P50	0	0	0
	11	2048	QPEAK	0	0	0
	12	4096	EPG	0	0	0
OB3	0	1	AV3	1	1	1
	1	2	SCT3	0	0	0
	5	32	SOSD	0	0	0
	8	256	ASPR	1	0	1
	9	512	ROTI	1	0	1
OB4	3	8	PITN *	0	0	0
	4	16	PITN *	0	0	0
OB5	6	64	AAVL	1	1	1
OB8	4	16	PIPC	0	0	0
	5	32	PIPT	0	0	0
OB9	0	1	APC	1	1	1
	5	32	VMOD	0	0	0
	7	128	TIME	1	1	1
	8	256	DNR	1	1	1
	9	512	BBD	0	0	0
	10	1024	ASF	0	0	0
OB10	5	32	UKPNP	0	0	0
	6	64	DTXT	1	0	1
	8	256	SBNP	1	1	1
	9	512	AUSB	0	0	0
	10	1024	CZOM	1	0	1
	11	2048	HSHT	1	0	1
	14	16384	CHLK	1	1	1
OB11	9	512	T1H0	1	1	1
	13	8192	FAPG	1	1	1
	14	16384	ACI	1	1	1
OB12	8	256	PLST	1	1	1
OB13	0	1	T2H5	1	1	1
	2	4	T12H	1	1	1
	3	8	EWEU	0	0	0
	7	128	SMCK	1	1	1
	8	256	ATS	1	1	1
* = There are 2 bits for this option:						
00 = Philips,						
01 = Other						
Unused options have a default value of "0"						

8.4.4 Option Bit Definition

Sources

AV3: Side AV source.

Function: Disable/Enable side AV source.

Values: OFF= Disabled, side AV source is not available. ON= Enabled, side AV source is available.

SCT3: SCART 3 input.

Function: Disable/Enable Scart3 input.

Values: OFF= Disabled. ON= Enabled.

Video

ASPR: Aspect Ratio Setting.

Function: Select between 4 by 3 or 16 by 9 set.

Values: OFF= 4 by 3 set. ON= 16 by 9 set.

DNR: Dynamic Noise Reduction.

Function: Disable/Enable (Dynamic) Noise Reduction function.

Values: OFF=Disabled. ON= Enabled.

BBD: Black Bar Detection.

Function: Disable/Enable Black Bar Detection.

Values: OFF=Disabled, Black Bar Detection not available. ON= Enabled, Black Bar Detection available.

Note: The Auto Screen Fit will not be included in the picture size loop when BBD is OFF.

ASF: Auto Screen Fit.

Function: Disable/Enable Auto Screen Fit.

Values: OFF=Disabled, Auto Screen Fit is not available. ON= Enabled, Auto Screen is Fit available.

CZOM: Continuous Zoom.

Function: Disable/Enable Continuous Zoom.

Values: OFF=Disabled. ON= Enabled.

HSHT: Heading Shift.

Function: Disable/Enable Heading Shift.

Values: OFF=Disabled. ON= Enabled.

SSHT: Subtitle Shift.

Function: Disable/Enable Subtitle Shift.

Values: OFF=Disabled. ON= Enabled.

APC: Auto Picture Control (Auto TV).

Function: Disable/Enable Auto picture control.

Values: OFF= Disabled. ON= Enabled.

WSSB: Wide Screen Signalling Bit.

Function: Disable/Enable Wide screen Signalling bit function.

Values: OFF= Disabled. ON= Enabled.

ROTI: Rotation Tilt.

Function: Change the tilt level of picture tube.

Values: OFF= Disabled, menu item ROTATION is not available. ON= Enabled, menu item ROTATION is available.

DGSC: Digital Scan.

Function: Enable/Disable the Digital Scan in the DIGITAL OPT menu.

Values: OFF= Disabled, menu item DIG SCAN is not available. ON= Enabled, menu item DIG SCAN is available.

SCAVM: SCAVEM.

Function: Enable/Disable SCAVEM.

Values: OFF= Disabled. ON= Enabled.

Audio

AAVL: Automatic Volume Level control.

Function: Disable/Enable automatic volume leveller function.

Values: OFF=Disabled, menu item AVL is not available. ON= Enabled, menu item AVL is available.

DBYV: Dolby Virtual.

Function: Select surround setting.

Values: OFF= Disabled, DOLBY VIRTUAL setting is not available. ON= Enabled, DOLBY VIRTUAL setting is available.
Note: Incredible surround & Dolby virtual are mutually exclusive.

EQTO: Equalizer or Tone control.

Function: Selection between Equalizer and Tone control (Bass and Treble).

Values: OFF= Tone control (Bass and Treble). ON= Equalizer.
Note: Equalizer and Tone (Bass and treble) control are mutually exclusive.

QPEAK: AV Sound Mode detection.

Function: The current Sound Mode detection in AV is not working correctly. The optimal threshold value for the correct sound mode detection is still being investigated. Therefore, this is needed to disable the Sound Mode detection in AV until the correct threshold is identified.

Value: OFF= Disabled, AV sound auto detection is not available. ON= Enabled. AV sound auto detection is available.

Tuning**PITN: Philips Tuner.**

Function: Choose the tuner type that is configured in the hardware.

Values: OFF= Disabled, ALPS compatible tuner is used. ON= Enabled, Philips compatible tuner is used.

Installation**ACI: Automatic Channel Installation.**

Function: Disable/Enable automatic channel installation.

Values: OFF= Disabled Automatic Channel Installation. ON= Enabled Automatic Channel Installation.

Note: Download present program when ACI is ON.

ATS: Automatic Tuning System.

Function: Disable/Enable automatic tuning system.

Values: OFF= Disabled, automatic tuning system is ignored.
ON= Enabled Automatic Tuning System, sort the program in an ascending order starting from Program 1.

Note: Sort the program in an ascending order starting from Program 1 when ATS is ON.

VMOD: Virgin Mode.

Function: Disable/Enable virgin mode.

Values: OFF= Disabled, cannot access virgin mode. ON= Enabled, can access virgin mode.

Note: Plug and Play menu item will be displayed to perform installation at the initial start up of the TV when MOD is ON and after installation is done, VMOD will be automatically set to OFF.

UKPNP: UK Plug and Play.

Function: Disable/Enable UK's default Plug and Play setting.

Values: OFF= Disabled, UK's default Plug and Play setting is not available. ON= Enabled, UK's default Plug and Play setting is available.

Note: When UKPNP and VMOD are ON at the initial set-up, LANGUAGE= ENGLISH, COUNTRY= GREAT BRITAIN and after auto store is complete, VMOD will be set automatically to OFF while UKPNP remain ON.

Program Selection**PLST: Program List.**

Function: Disable/Enable Program List function.

Values: OFF= Disabled, the access to Program List Command is ignored. ON= Enabled, the access to Program List Command is processed.

Picture In Picture**PIPC: PIP Control.**

Function: Disable/Enable submenu to adjust PIP Picture settings

Values: OFF= Disabled, PIP feature is not available. ON= Enabled, PIP feature is available

Note: PIP is present in FEATURES submenu when PIPC is ON. When PIPC is switched OFF, bits PIPT, W4X3, and W169 must be automatically set to OFF.

PIPT: PIP Tuner.

Function: To determine the presence of second tuner.

Values: OFF= Disabled, second tuner is not available. ON= Enabled, second tuner is available.

Note: When PIPC is switched OFF, bits PIPT, W4X3, and W169 must be automatically set to OFF.

Clock**SMCK: Smart Clock/Autochron.**

Function: Disable/Enable smart clock/AutoChron function.

Values: OFF= Disabled, menu item smart clock function not available. ON= Enabled, menu item smart clock function available.

Note: For NAFTA, AUTOCHRON is present in INSTALL submenu when SMCK is ON. For AP-PAL and EUROPE, Smart clock downloaded from Teletext is enabled when SMCK is ON.

TIME: Timer.

Function: Disable/Enable menu item TIMER.

Values: OFF= Disabled, menu item TIMER not available. ON= Enabled, menu item TIMER available.

Note: TIMER submenu is present in FEATURES submenu when TIME is ON.

Data Service**DTXT: Dual Text.**

Function: Disable/Enable Dual Text.

Values: OFF= Disabled. Dual text is not available. ON= Enabled. Dual text is available.

RCMX: RC for Teletext Mix Mode.

Function: Disable/Enable RC for Teletext Mix mode support.

Values: OFF= Disabled. RC for mix mode is not available. ON= Enabled, RC for mix mode is available.

FAPG: Favourite Page.

Function: Disable/Enable favourite page in Teletext mode.

Values: OFF= Disabled favourite page in Teletext mode. ON= Enabled favourite page in Teletext mode.

T1H0: 100-Page Text.

Function: Disable/Enable 100-page Text.

Values: OFF= Disabled. 100-page text is not available. ON= Enabled, 100-page text is available.

T2H5: 250-Page Text.

Function: Disable/Enable 250-page Text.

Values: OFF= Disabled. 250-page text is not available. ON= Enabled, 250-page text is available.

T12H: 1200-Page Text.

Function: Disable/Enable 1200-page Text.

Values: OFF= Disabled. 1200-page text is not available. ON= Enabled, 1200-page text is available.

Lock Features**CHLK: Child Lock.**

Function: Disable / Enabled function to block/unblock channels.

Values: OFF= Disabled. ON= Enabled.

OSD/Menu Related**SOSD: Smart OSD.**

Function: Disable/Enable full display of SMART SOUND and SMART PICTURE OSD.

Values: OFF= Disabled, full display of SMART SOUND and SMART PICTURE OSD not available. ON= Enabled, full display of SMART SOUND and SMART PICTURE OSD available.

Miscellaneous

SBNP: Auto Standby with No Picture.

Function: Disable/Enable automatic switch to standby after 15 minutes when no ident.

Values: OFF= Disabled, no automatic switch to standby. ON= Enabled, set switches to standby after 15 minutes when no ident.

AUSB: Auto Standby Auto On.

Function: Disable/Enable automatic switch to standby if no RC or local keyboard response after 4 hours provided that the set is ON from standby mode by the timer.

Values: OFF= Disabled, no automatic switch to standby. ON= Enabled, set switches to standby after 4 hours.

EPG: Electronic Program Guide.

Function: Disable/Enable EPG feature.

Values: OFF= Disabled, EPG feature is not available. ON= Enabled, EPG feature is available.

P50: P50 (Easylink).

Function: Disable/Enable P50 feature.

Values: OFF= Disabled, P50 feature not available. ON= Enabled, P50 feature is available.

EWEU: East/West Europe region.

Function: Select between East Europe and West Europe.

Values: OFF= West Europe. ON= East Europe

9. Circuit Descriptions, Abbreviation List, and IC Data Sheets

Index of this chapter:

1. Introduction
 2. Block diagrams
 3. Power supply
 4. Video
 5. Synchronisation
 6. Audio
 7. Control
 8. Protections
 9. Software upgrading
 10. Abbreviation list
- Only **new** circuits (circuits that are not published recently) are described.
 - For the "known" LSP circuits, see the EM5E manual. This manual is available under number 3122 785 12560 (= English).
 - Figures can deviate slightly from the actual situation, due to different set executions.
 - For a good understanding of the following circuit descriptions, please use the diagrams in chapter 6 and 7. Where necessary, you will find a separate drawing for clarification.

9.1 Introduction

The A02 is intended as the Mainstream TV platform for the years 2003 and 2004 and successor to the A10. Covering three ranges (Digital Ready, Digital Prepared, and Digital Integrated) with screen sizes of 28 inch WS to 36 inch WS RF (16:9) and 29 inch to 38 inch RF (4:3). The platform supports 50 Hz, 100 Hz, and progressive scan.

It is based on the SALSA system (System Application for Lower Segment Analogue television), which is a highly integrated solution for TV. The system comprises two ICs: the ADOC (Analogue Digital One Chip) and the MPIF (Multi Platform InterFace). The MPIF IC performs analogue processing for IF, source selection, and analogue to digital conversion. The ADOC IC incorporates video and audio processing as well as the complete TV control functionality. The ADOC aims at the low and mid range market segment.

The split-up between an analogue (MPIF) and a digital part (ADOC) has the following advantages:

- High frequent parts (IF) can be included in the concept.
- Less A/D and D/A converters needed for source switching.
- Better performance for AD converters (realised in analogue design environment, more accurate, less tolerance).
- Critical items like reference voltages can be realised in the analogue environment.
- Integrated SCART buffers.

The new A02 chassis has the following features:

- An LSP (Large Signal Panel) that is based on the existing EM5 chassis.
- A new SSB (Small Signal Board) with very high integration.
- Upgradeable main software (via ComPair). The software is a large and re-engineered version of the 'MG' software used by Philips CE for several years.

9.1.1 Large Signal Panel

The chassis has a full sized LSP, which is identical to the one in the EM5 chassis.

The main functionalities of the LSP are:

- Supply,
- Deflection,
- Sound amplification.

The LSP (single sided) is built up very conventional, with hardly any surface mounted components on the copper side. It has a large "hot" part, including both deflection coils.

9.1.2 Small Signal Board

The SSB is a high tech module (four layer, 2 sides reflow technology, full SMC) with very high component density. Despite this, it is designed in such a way, that repair on component level is possible. To achieve this, attention was paid to:

- Accessibility of the test points. The SSB has good accessible service positions.
- Clearance around surface mounted ICs (for replacing).
- Detailed diagnostics and fault finding is possible via ComPair.
- Software upgrading is possible via ComPair.

The main functionalities of the SSB are:

- Tuner input,
- I/O interface provisions,
- TXT and Control,
- Video and Audio decoding,
- Feature Box,
- Sync and Geometry control.

Further features of the SSB are:

- The PIP functionality (when present) is integrated on the SSB.
- The 3D Comb filter functionality (for USA) is integrated on the SSB.

On the photographs you can see where the key components are located on the SSB:

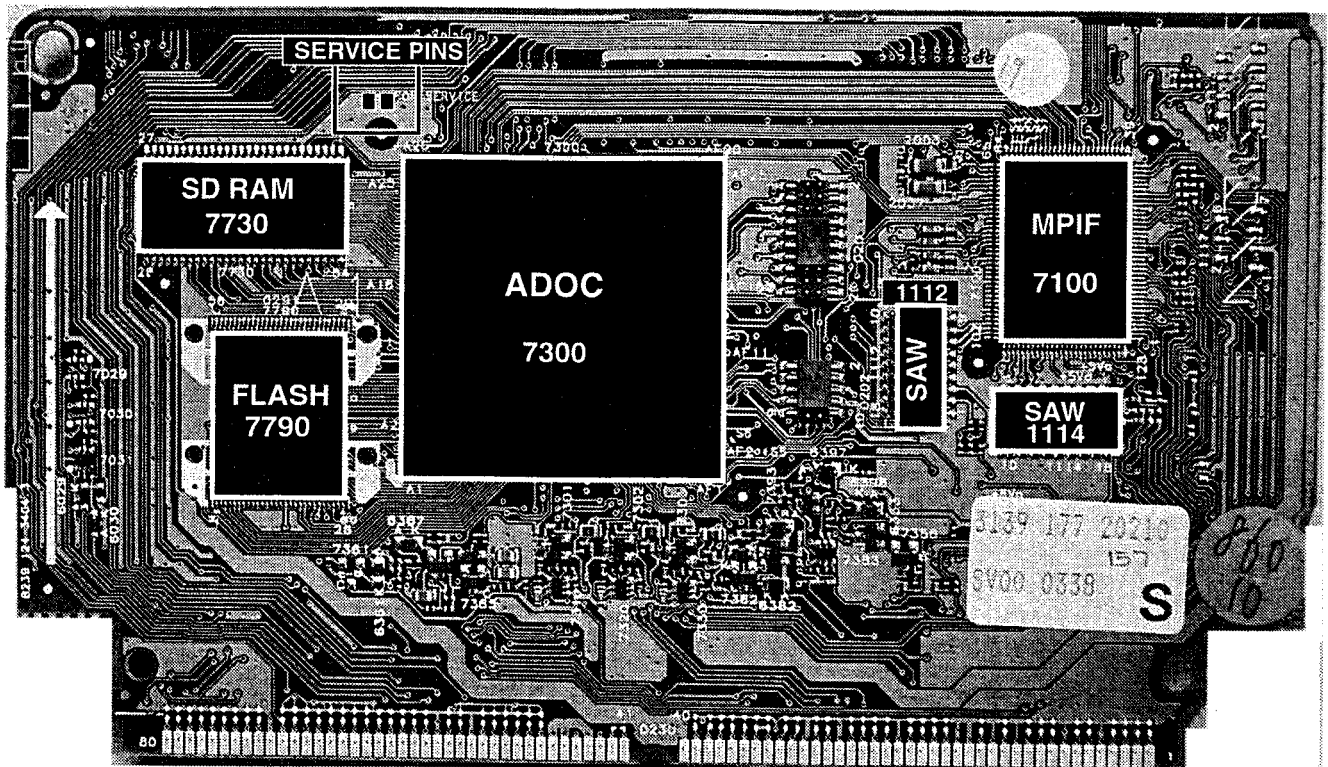
CL 36532058_060.eps
281003

Figure 9-1 SSB top view (tuner side)

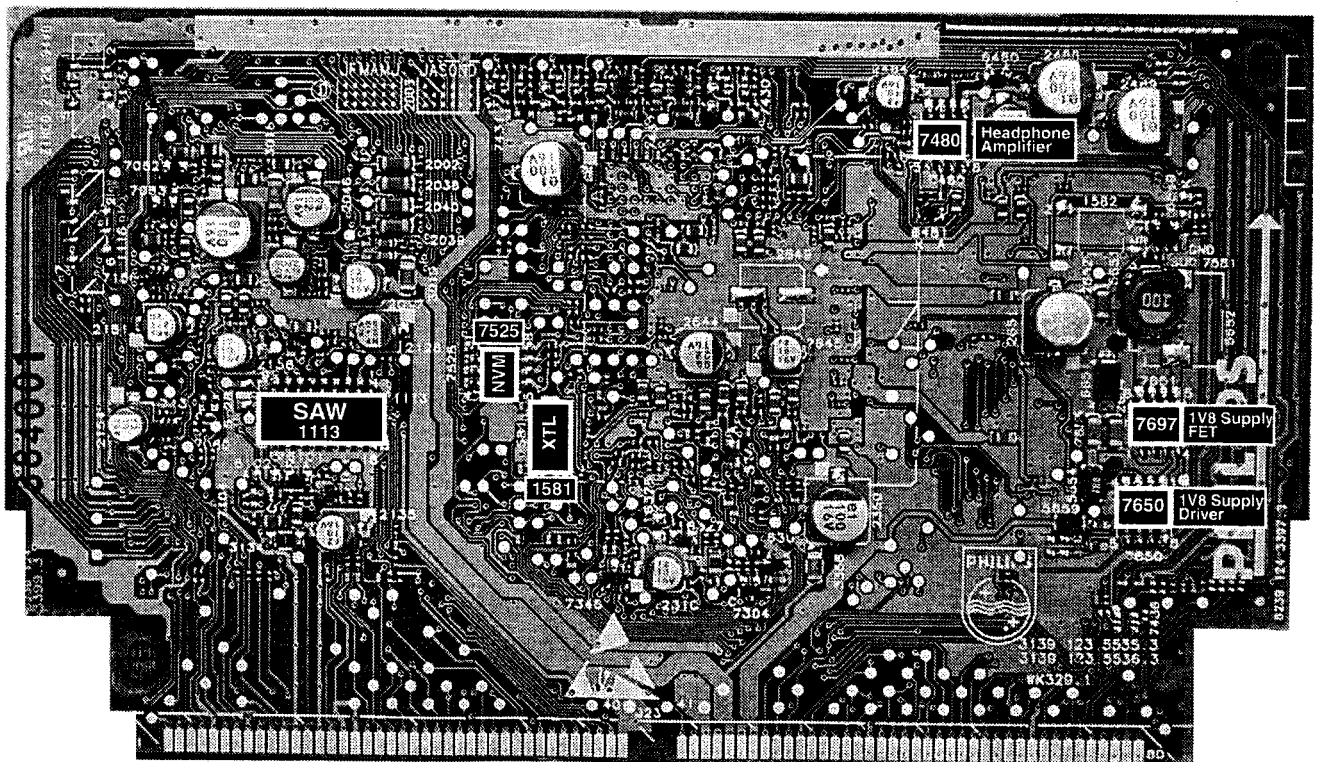
CL 36532058_061.eps
271003

Figure 9-2 SSB bottom view (LOT side)

9.2 Block Diagrams

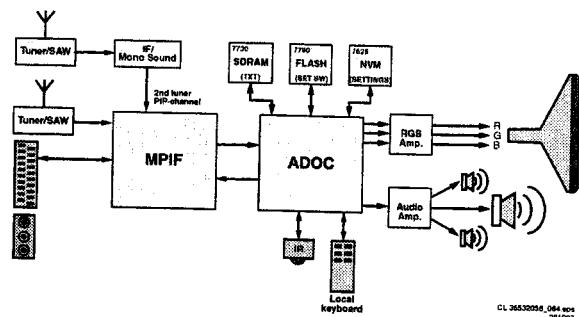


Figure 9-3 Chassis block diagram

The tuner is a PLL tuner and delivers the IF-signal, via audio and video SAW-filters, to the MPIF IC (Multi Platform InterFace). This is an analogue video and audio pre-processing unit for the ADOC TV processor. It contains the high frequent IF part and all the analogue video and audio source switching for external in- and outputs. The MPIF can handle CVBS, Y/C, RGB (1fH/2fH) and YPbPr (1fH/2fH) video signals as well as stereo, I2S, and second sound IF audio signals. The MPIF converts the selected video and audio streams from the analogue to the digital domain. Via three high-speed serial data links (I2D), the digitised audio and video signals are streamed to the ADOC IC for further processing.

The ADOC (Analogue Digital One Chip) is a fully integrated, digitally implemented TV processor for audio, video, Vertical Blank Interval services, graphics, and control. It is a global, multi-standard system primarily designed for the reception and processing of analogue broadcast signals.

Internal video processing is done in the ADOC with YUV-signals. It also handles the video control, geometry part, and the insertion of the TXT/OSD RGB-signals. The video part delivers the RGB signals to the CRT-panel and the geometry part delivers the H-drive, V-drive (differential output), and E/W-drive.

An integrated MIPS 1910 processor runs the chassis software and takes care of the set control, error generation TXT/OSD input-, and output processing. The NVM (Non Volatile Memory) is used to store the settings, the Flash-RAM contains the set software, and the SDRAM stores the Teletext pages (in some versions, this is stored in the internal memory of the ADOC).

Both deflection circuits are located on the LSP and are driven by the ADOC. The horizontal output stage generates also some supply voltages and the EHT-, focus- and Vg2-voltages.

The RGB amplifiers on the CRT-panel are integrated in one IC and are supplied with 200 V from the LOT. The SCAVEM circuit modulates transitions of the Luminance (Y) signal on the horizontal deflection current, giving a sharper picture.

Sound IF processing, audio source selection, and audio analogue-digital signal conversions are done in the MPIF IC. The ADOC contains a digital TV sound processor for analogue and digital multi-channel sound systems in TV sets. By hardware programming, several applications can be scaled. The audio output stage is built around a balanced amplifier, and is located on the LSP. It uses a monolithic integrated power amplifier IC, the TDA7497. The gain of the amplifier is constant. This means that volume control is done via the ADOC.

The power supply is a Switch Mode Power Supply (SMPS) with minimum voltage switch. It is a flyback converter with primary current sensing, secondary voltage sensing, and mains input measuring. It is built around IC7921 (which has a built-in MOSFET and control circuit) and generates a.o. the 140 V (V-BAT) and the 27 V (for the audio part).

During Standby, the power supply is switched to a 'low power burst mode' via TS7946 and the following burst mode generator, in order to reduce the power consumption. A relay is used to switch the degaussing circuit for several seconds during switching 'ON' of the set.

There is a separate Standby Supply, in order to reduce the Standby power consumption. During Standby, the Main Supply is switched "off" (via TS7529).

A relay (1550) is used to switch the Degaussing circuit. It is switched "on" after set start-up and switched "off" by the microprocessor after 12 s.

The Main Supply, a SMPS based on the "boost converter" principle, generates the 141 V (V_BAT) and the +/- 16 V for the audio part.

9.3 Power Supply

9.3.1 Introduction

The power supply circuitry is located on the large signal PWB, together with the audio amplifier and the deflection. It comprises of:

- Mains entrance with fuse.
- Separate standby -supply.
- Mains harmonic circuit.
- Mains rectifier.
- Main-supply: is able to deliver a continuous power between 100 W and 160 W.
- Degaussing.

For a detailed circuit description, see the EM5E Service Manual.

9.3.2 Power Supply architecture

The A02 SSB is supplied by +5V, +5.2V, +3.3V and +8V supply lines from the LSP. The SSB contains:

- A DC/DC converter which steps down +5.2V to +1V8,
- A switch to cut off the 3V3 supply to the 3D Comb in "Standby" mode, and
- A regulator to generate the 2V5.

When the set is in "Power STANDBY" mode, the +5.2V, +3.3V supply lines are present. Consequently, only the ADOC IC (+3V3 and +1V8), the SDRAM (+3V3), the Flash memory (+3V3), and the NVM memory (+3V3) are supplied. Other than NVM, all the other devices are powered down in "Standby" mode. See section below for more details on the power modes.

OFF Mode

The set is completely switched "off" from the mains. This is done with the mains switch for Europe and AP (for NAFTA it would mean disconnecting the TV from the mains by pulling out the mains cable). Depending upon the last Standby Status (stored in NVM), this mode can transit to "ON" mode or "STANDBY" mode.

The transition timing for a Cold start from "OFF" state to "ON" shall be such that from the instance the ADOC gets a hard reset, within 3 seconds one will hear the audio and within 7 seconds one will see the picture.

ON Mode

This is the normal operating mode. All the power supply lines on the A02 SSB and LSP are available. All the circuits in the set are active. From this mode, it is possible to transit to "STANDBY", "SEMI-STANDBY", "PROTECTION", or "OFF" mode.

STANDBY Mode

The total power consumption of the TV set in this mode is equal or less than 1 W. The Standby state will be indicated by the LED. In this state only the ADOC, SDRAM, Program Memory, NVM, and all means to wake-up the set are powered. Rest of

the A02 sub-systems are disconnected. This is controlled by a STANDBY control port.

The transition timing from "STANDBY" to "ON" state is such that within 3 seconds, one will hear the audio and within 7 seconds, one will see the picture. From this mode, it is possible to transit to "ON", "SEMI-STANDBY", or "OFF" mode.

SEMI-STANDBY Mode

All the circuits in the set (ADOC, MPIF, etc), except the Audio output, Deflection, and hence CRT display, are powered up and fully active. The Audio Mute is activated. The set, however, will appear to behave and to look like "STANDBY" mode to the user. The user is totally oblivious of the existence of this mode. The status of the power supply lines and the estimated total power consumption of the SSB are the same as "ON" mode. In this mode, the ADOC ICs horizontal deflection drive output is disabled, while the STANDBY control port is disabled. This consequently causes the LOT stage on the LSP to be inactive (although V_{batt} voltage is present) that, in turn, will cause the EHT to be cut off. This in turn will cause the CRT display to be inactive.

From this mode, it is possible to transit to "ON" mode, "STANDBY" mode, "PROTECTION" mode or "OFF" mode.

PROTECTION Mode

Power profile for protection mode is as low as required to allow "soft" diagnostics, error detection, and to indicate LED flashes to flag the type of fault. The horizontal deflection is "OFF" in this mode. From the protection mode, the only possible transition is to "OFF" mode.

9.3.3 Start Up Sequence

1. When we start the set (cold start), initially 5V2, 3V3, and 1V8 will be available. These come from the Standby module of the power supply.
2. After this, the microprocessor resets (tied to 1V8 and 3V3 supplies) and checks the last status of the supply from the NVM. Accordingly, the set will be put in STANDBY or in the normal ON condition.
3. Now, 5V and 8V are available if the last status was ON condition, and the DOP is initialised by the microcontroller through the PI bus (not via the I2C).
4. The H-drive will become available from the DOP, which is the source for the SUP_ENABLE signal.
5. Via the "SUP-ENABLE" signal, the Main Supply is switched "on" and will deliver the V_{BAT} to the Line deflection stage.
6. EHT generation is now started.
7. The uP will un-blank the picture.
8. When you switch "off" the set, this is done in a controlled way via the POR (Power On Reset) signal.

Note: Standby is controlled by the STANDBY Line of the uP (not by the DOP).

9.3.4 Shut Down Sequence

This section describes the processes that need to be handled by hardware and software when power is disconnected from the set.

Some system requirements:

- To handle CRT discharge.
- To handle "switch off" plops.
- To prevent NVM corruption at switch "off".
- To effectively distinguish between the condition of mains interruptions and shutdown and handle them properly.
- The "power down" detection is acquired from the deflection supply (+11V) and the level is translated to +3.3V (this event has the highest interrupt priority to trigger SW shutdown procedure).
- Power down detection is fed to the FBCIN input, initiates a slow stop, and hence ensures CRT discharge (it is important that the slow-stop is maintained for at least 50 ms to assist good discharge).

- The microcontroller, hence the system, shall have a clean power "on" and power "off" reset with respect to its supply. The microcontroller shall not be operational when the supply voltage is below the recommended limits. The transition between active and reset is fast.
- The microcontroller "off" reset must occur much later (> 45 ms) than the POWER DOWN signal (P.DN).

When the POWER DOWN interrupt occurs, there is no way of knowing whether it is due to Medium Mains Interruptions or due to shutdown. Hence, there is no choice but to initiate shutdown procedure as described further below. The definition of Mains Interruption is given below:

- **Short Mains Interruptions.** Duration of the interrupts $\leq$ 55 ms. The set shall continue to work properly. The "power off" acquisition circuit shall filter such events.
- **Medium Mains Interruptions.** Interruptions are of the order 70 to 80 ms. This is a typical situation when the "power off" acquisition circuit, signals that the power is going down but the microcontroller does not get a reset. In this condition, a POWER DOWN signal is generated but no POWER OFF RESET signal is available.
- **Long Mains Interruption or Shutdown.** Any interrupt above 80 ms shall cause a microcontroller reset and hence a cold start. This happens, when the power is disconnected long enough to get a "Power Off Reset" as well as the microcontroller reset. After this situation, the system would automatically cold start when the power resumes.

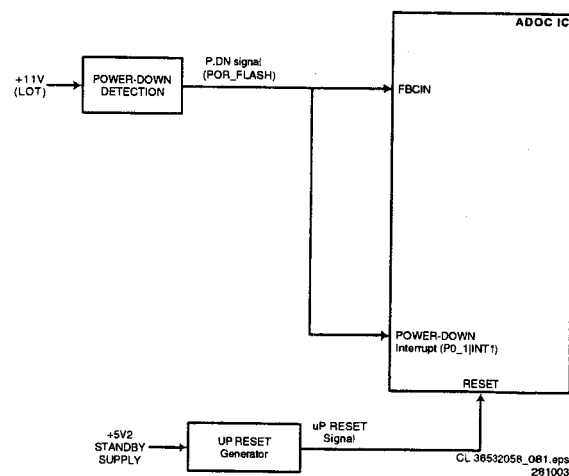


Figure 9-4 Shut down block diagram

Shutdown Procedure

1. Exclude all processes and do not respond to any interrupts - including RC events. However, during the following defined conditions of stopping the deflection (DFL-bit= 0), ignore the P.DN interrupt and rest of the procedure:
 - The system switched from ON to Standby by the user.
 - Protection event that forces the H-Deflection to stop.
 - Any other SW controlled event that causes the deflection to stop.
2. Since the P.DN signal is connected to FBCIN input, the DOP shall slow stop immediately - no software intervention is required. The precondition for this is that the FBDM bit in DOP is set to "1". The slow -stop process will continue for the next 40 ms or so.
3. Mute Audio Output / Sound Enable line.
4. Mute audio external outputs (in ADOC).
5. Set the DFL-bit to "0", such that deflection shall not restart after the slow -stop process is done.
6. Disable NVM access. Do the following:
 - Put the NVM in standby state to stop I2C write to NVM, by sending the Universal Reset Sequence.
 - Set Write Enable high: this avoids any further Write sequence to the NVM.
7. Disable all the I2C hardware communication.

8. Wait for 200 ms and execute a cold start when there is no microcontroller-reset signal. This is considered as "medium mains interruption".
9. After the cold start, the set should resume to the last status of user settings.

9.4 Video

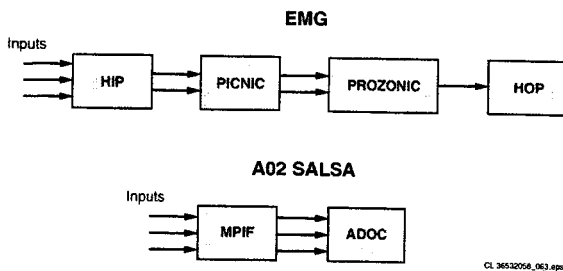


Figure 9-5 Signal processing A02- versus EMG-chassis.

The SALSA video processing part is a highly integrated solution. It comprises only two ICs, the ADOC (Analogue Digital One Chip) and the MPIF (Multi Platform InterFace), while in the EMG-chassis, this was handled by four ICs (HIP, PICNIC, PROZONIC, and HOP).

The MPIF uses a nominal 8V and 5V supply, while the ADOC requires nominal supplies of 1.8V and 3.3V.

The video processing of the SALSA system can be split into six parts:

- Initial source selection and analogue to digital conversion performed by MPIF.
- Demodulator (VIDDEC) performed by the ADOC.
- Front End Features (FEF) performed by the ADOC.
- Memory Based Features (MBF) performed by the ADOC.
- Back End Features (BEF) performed by the ADOC.
- Digital Output Processing (DOP) performed by the ADOC.

9.4.1 MPIF Analogue Frond End

Introduction

The MPIF (Multi Platform InterFace, type number PN3000, item number 7100) is an analogue video and audio pre-processing unit for the ADOC TV processor. It contains the high frequent IF part and all the analogue video and audio source switching for external in- and outputs. The MPIF can handle CVBS, Y/C, RGB (1fH/2fH) and YPbPr (1fH/2fH) video signals as well as stereo, I2S, and second sound IF audio signals. The MPIF converts the selected video and audio streams from the analogue to the digital domain. Via three high-speed serial data links (I2D), the digitised audio and video signals are streamed to the ADOC IC for further processing. Following figure shows the MPIF block diagram.

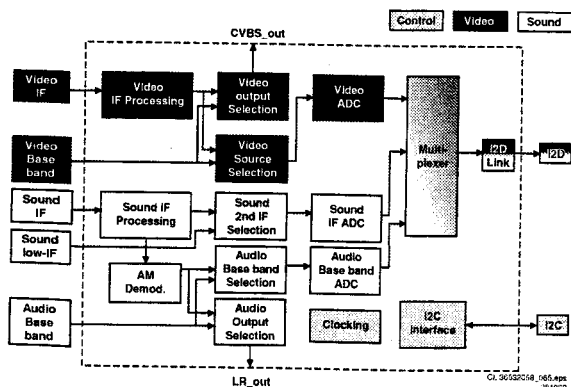


Figure 9-6 MPIF block diagram

Some MPIF features:

- IF Processing:
 - Amplifier, AGC.
 - Down mixer to base band.
 - Sound trap, low pass filter.
- Video base band switching:
 - CVBS, Y/C.
 - RGB, YPbPr (1fH/2fH).
- Audio base band switching.
- Video and audio A/D conversion.
- I2D formatter:
 - Data transfer to ADOC.
- SCART output buffers.

Vision IF

The video signal is demodulated by means of an alignment-free PLL carrier regenerator with an internal VCO. This VCO is calibrated by means of a digital control circuit, which uses an external crystal frequency as reference. The frequency setting for the various standards (33.4, 33.9, 38.0, 38.9, 45.75 and 58.75 MHz) is realised via the I2C bus.

The AFC output is generated by the digital control circuit of the IF-PLL demodulator and can be read via the I2C bus.

The AGC-detector operates on top sync or top white level.

The MPIF IC has an integrated sound trap filter. The trap frequencies can be switched via the I2C-bus.

Also, a group delay correction filter is integrated. The filter can be switched between the PAL BG curve and a flat group delay response characteristic. This has the advantage that in multi-standard receivers the video SAW filter does not need to be switchable (cost effective).

Sound IF

The MPIF has a separate sound IF input to enable Quasi Split Sound (QSS) applications. The sound IF amplifier is similar to the vision IF amplifier and has a gain control range of about 55 dB.

The AGC detector measures the SIF carrier levels (average level of AM or FM carriers) and ensures a constant signal amplitude for the AM demodulator and QSS mixer.

For applications without SIF SAW filter, the IC can also be used in intercarrier mode. In this mode, the composite video signal from the VIF amplifier is fed to the QSS mixer and converted to the intercarrier frequency. AM sound demodulation is realised in the analogue domain with the QSS mixer.

Source Selection

The following selector parts can be identified:

- **CVBS/YC source selector.** The video input selector consists of four independent source selectors, that can select between the CVBS signal coming from the IF part and four external CVBS signals. Two of the external CVBS inputs can also be used as YC input. One selector is used for selection of the primary video channel. A second selector selects the CVBS or YC signal for the secondary channel. The third and fourth selectors are used for selection of analogue CVBS outputs A and B for SCART or line output. The primary channel can be a CVBS or YC signal. If an YC signal is selected for the secondary channel or external CVBS outputs A or B, the luminance and chrominance signals are added so that a CVBS signal is obtained. The video identification circuit detects the presence of a video signal on the CVBS_IF input (CVBS0). The identification output can be read via I2C bus and is normally used to detect transmitters during search tuning.
- **RGB/YPbPr source selector.** The IC has two RGB inputs. Both inputs can also be used as YPbPr input for connection of video sources with an YPbPr output like a DVD player. The RGB inputs can also be used for fast insertion of RGB signals (for instance on screen display menu's) in the primary CVBS signal. The fast insertion switch is located in the digital video processor. The RGB signals are converted to YUV before further processing. The YUV output signal is digitised with the help of two A to D converters. The U and

V components have half the bandwidth of the Y signal, because the U and V signals are multiplexed and digitised with the help of one A/D converter.

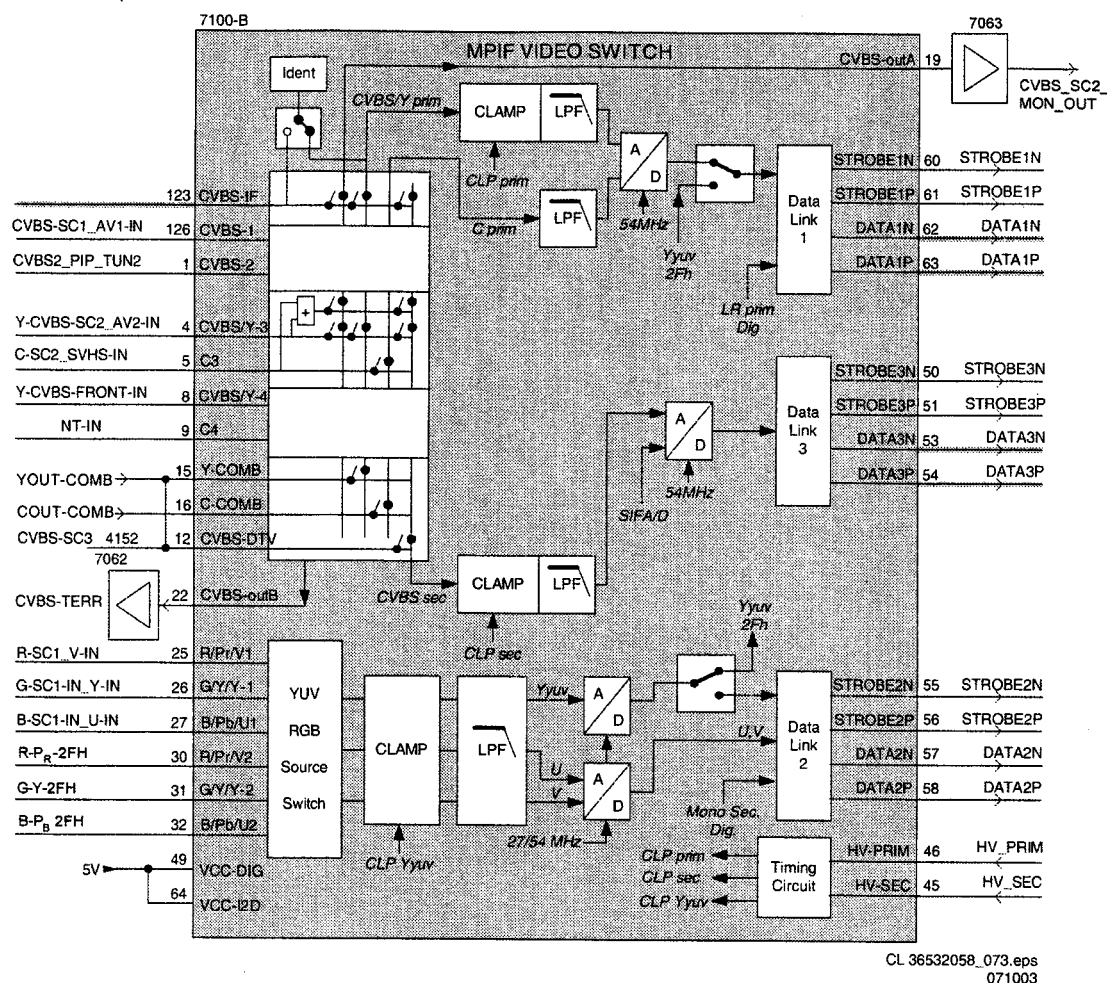


Figure 9-7 MPIF Video source selection

- **Audio source selectors.** The MPIF contains two different audio source selectors. The first selector selects which audio signals are routed to the audio ADCs for further processing in the digital domain. The selector has two outputs, a primary channel and a secondary channel:
 - The primary audio channel is used for one stereo signal. The secondary audio channel can carry a second stereo signal or AM sound signal.
 - The second selector selects which audio signals are fed to the analogue audio outputs for SCART and line out. This selector has also two stereo inputs for demodulated sound signals coming from the digital video processor.

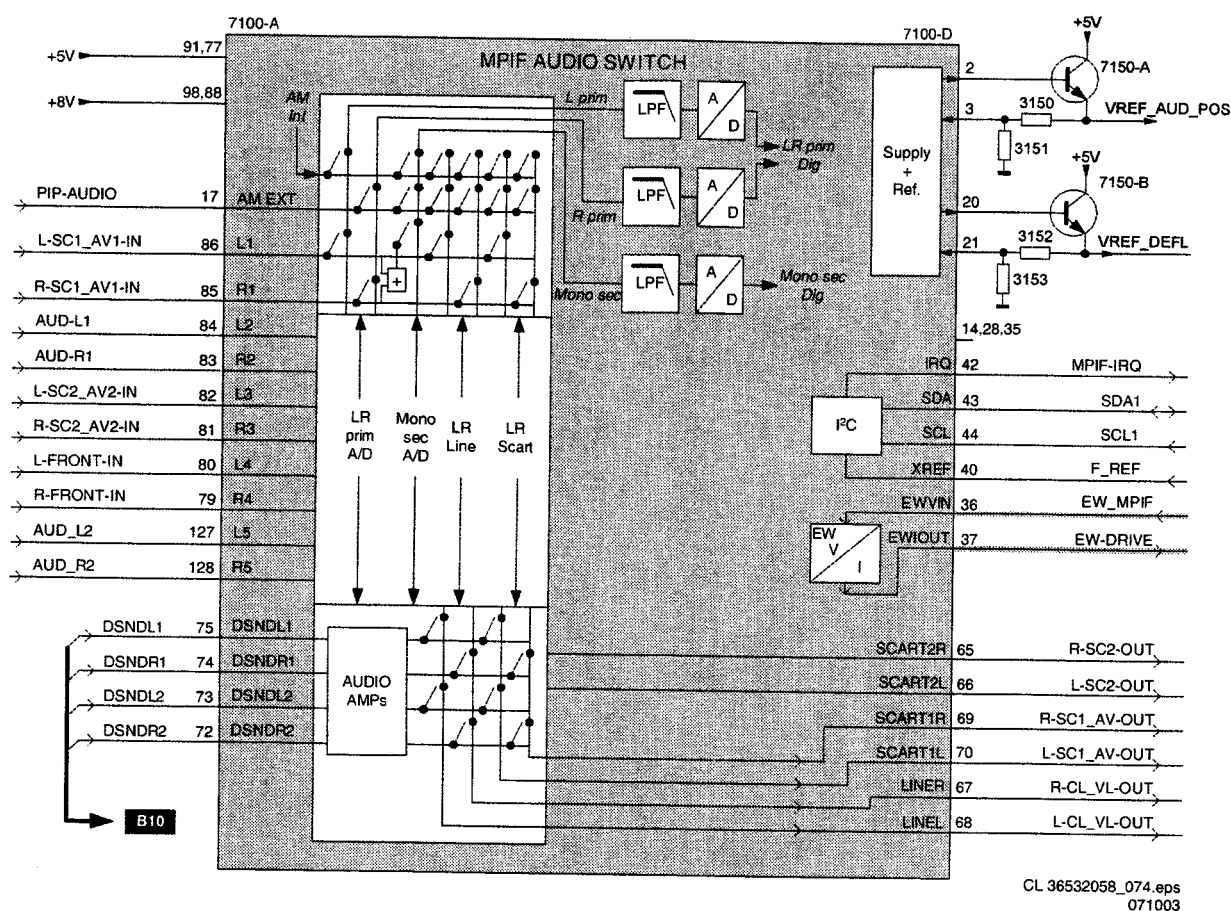


Figure 9-8 MPIF Audio source selection

A to D Converters

The MPIF contains four video ADCs for analogue and digital video broadcast signals. The clock frequency for these ADCs is either 27 MHz or 54 MHz. In some cases, two analogue signals are multiplexed at the input of one ADC. In these cases, the clock frequency of the ADCs is 54 MHz, while the sample frequency for each of the two signals is 27 MHz.

The sample frequency for standard 1fH video signals is 27 MHz.

For the YUV channel the sample frequency of the U and V components is half the sample frequency of the Y signal. For 2fH YPbPr or RGB input signals (for instance 480p or 1080i ATSC signals), the frequency that is used to sample the YUV signals is twice as high as for 1fH signals. The sample frequency is 54 MHz for Y and 27 MHz for U and V. Due to the high sample frequency, two data links are needed for transport of the video data to the digital video processor.

9.4.2 Data Link Interface (I2D)

The digital interface between MPIF and ADOC is called Data Link (or I2D Link). Data Link is a pin efficient, EMC friendly and power efficient serial interface that transfers the data from MPIF to ADOC over three Data Link interfaces. Each Data Link has a data signal and a strobe signal. The synchronisation information is distributed over the data and the strobe signal. To minimize EMC, both signal outputs are low voltage differential swing signals, with a swing of about 300 mV. Each Data Link has four lines, one differential pair for the data, and one differential pair for the strobe. The data rate is 594 Mbit/s. Each Data Link can carry two 27 MHz sampled video

streams (or one 54 MHz sampled 2fH video stream) and two audio channels sampled at 6.75 MHz.

In the MPIF, the (video and audio) data to be transmitted is multiplexed in an output register of 42 bits. The content of that 42 bits register is serial transmitted on one of the three data links. In the ADOC, the serial data is de-multiplexed into parallel streams. The data on the data link is divided in several groups of signals (video, audio and strobe signals). Obvious it is important that the transmitter and receiver are in the same transmitting mode.

9.4.3 ADOC Digital TV Processor

Introduction

The A02 system is built around the ADOC IC. This chip implements all TV functions in digital technology. Only a few functions (like AD-conversion, IF processing and source select) are implemented in an analogue companion IC, the MPIF. The ADOC (Analogue Digital One Chip, type number PN3001-3008, item number 7300) is a fully integrated, digitally implemented TV processor for audio, video, VBI services, graphics, and control. It is a global, multi-standard system primarily designed for the reception and processing of analogue broadcast signals.

An integrated MIPS 1910 processor runs the chassis software. This software is stored in a non-volatile external flash memory (item 7790). Following figure shows the ADOC block diagram.

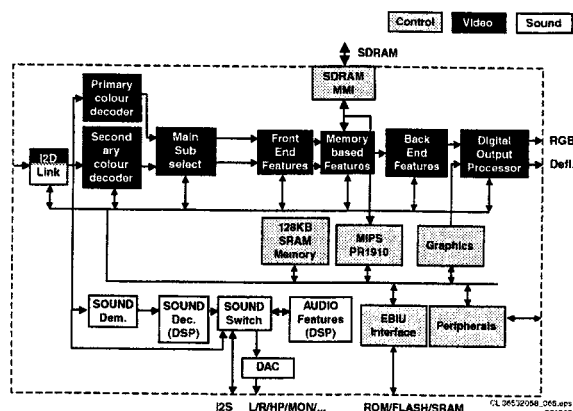


Figure 9-9 ADOC block diagram

The dual stream architecture of the ADOC system allows audio and video processing of two A/V sources simultaneously. The two video streams can be displayed in several programmable ways (main screen, PIP or DW). The two audio streams are audible via the TV loudspeakers and/or the headphones. For the memory-based features (like scan rate conversion, 3D-Comb filtering, dynamic noise reduction, and PIP/DW applications), external SDRAM is used (item 7730). The ADOC also has 128 kBytes of internal SRAM memory. This memory is used to run low latency, timing critical parts of the software. The internal memory is also used if the system operates in a single scan 50/60 Hz interlace application without any other kind of memory based features. Under these circumstances, no external SDRAM is needed.

Some ADOC features:

- Video Decoding:
 - 2-Colour Decoder (PAL, NTSC, SECAM).
 - 2D and 3D Comb filter.
- Memory Based Features:
 - PIP/DW, DNR, Scan Rate conversion.
- Picture Improvements:
 - CTI, LTI, Colour correction.
- Digital Output Processor:
 - RGB processing, Scavem, Deflection control.
- Audio Processing:
 - Demodulator/Decoder (A2, NICAM, BTSC).
 - Tone, Volume, Balance, Dolby ProLogic.
- VBI (Vertical Blank Interval) Services:
 - Teletext, Closed Caption, V-chip.
- TV Control:
 - I2C, UART, IR, Keyboard.
- Graphics:
 - Character based.

Video Decoding (VIDDEC)

The Video Decoder (VIDDEC) is the video input processor and colour decoder. There are two VIDDECs: the primary and the secondary VIDDEC. The VIDDEC processes all CVBS, Y/C, and 1fH/2fH component (e.g. RGB) video input signals.

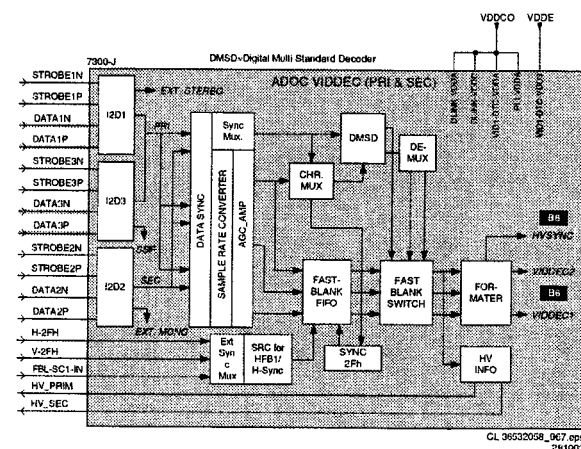


Figure 9-10 VIDDEC block diagram

Primary VIDDEC (1fH/2fH)

The primary VIDDEC supports the following functionality:

- Conversion of the digitised samples from MPFI into orthogonal samples (meaning fixed number of pixels per line, independently of line frequency).
- Correction for any amplitude errors of the input signals (CVBS, YC, or YCbCr) by means of an Automatic Gain Control (AGC).
- Standard detection of PAL/NTSC or SECAM and various 1fH/2fH component input formats.
- Colour decoding for PAL, NTSC, or SECAM input signals.
- Sync identification (to be used for channel search).
- Sync processing for any 1fH or 2fH input signal.
- Fast-blank insertion of RGB signals (supplied via MPFI) on CVBS input signals.
- 2D Comb filtering. 3D Comb filtering is implemented in the Memory Based Feature block of the Feature Box.

Secondary VIDDEC (1fH)

The secondary VIDDEC is mainly intended for use with PIP/DW. It supports the following functionality:

- Conversion of the digitised samples from MPFI into orthogonal samples (meaning fixed number of pixels per line, independently of line frequency).
- Correction for any amplitude errors of the input signals (CVBS) by means of an Automatic Gain Control (AGC).
- Standard detection of PAL/NTSC or SECAM and various 1fH component input formats.
- Colour decoding for PAL, NTSC, or SECAM input signals.
- Sync identification (to be used for channel search).
- Sync processing for any 1fH input signal.
- CVBS 1fH input signals only.

Data Synchroniser and Sample Rate Converter

The data synchroniser is a de-multiplexer that separates the UV stream into a separate U and V data stream. The sample rate converter converts the video samples from the crystal clock domain to the so-called line locked clock domain, 720 pixels per line.

Automatic Gain Control (AGC)

The AGC amplifier block controls the gain of the signal and is controlled directly by the chassis software. This gain will depend on the amplitude of the output signal (signal amplitude and/or sync amplitude) as measured by the AGC gain block. As a secondary function, it controls both the offset at the input and the offset at the output of the gain control.

Digital Multi Standard Decoder (DMSD)

This DMSD block contains the following functionality:

- Decodes a CVBS or Y/C (primary VIDDEC) signal and converts it to an YCbCr signal format. All world colour standards are supported.
- YC detection (primary VIDDEC) via a SW algorithm.
- 50/60 Hz, interlace/progressive, field polarity, and no-YC detection.
- A chroma notch with programmable width.
- 2D Comb filter (primary VIDDEC). The 3D Comb filter uses the attached SDRAM memory and is implemented in the FBX.
- Macro vision detection.

Comb Filter

The ADOC 2D comb works purely in the vertical direction, but can bypass the entire signal as luminance straight away. The 2D comb uses the 180 degrees phase shift of the colour carrier between successive lines or two lines apart. Adaptive two or four delay lines 2D Y/C comb filtering is only possible for sources routed onto the Main-Video path.

In the 3D comb filter implementation (for USA only), the 2D comb filter processing in ADOC IC (on the Main-Video path) is disabled via SW. The signal input for the 3D YC comb-filter circuit is derived from the CVBS-SC2_MON-OUT signal path. The processed signal is re-inserted back via YCOMB and CCOMB inputs of the MPFI IC.

Standard Detection

The Standard Detection part identifies PAL/NTSC/SECAM/BW but also involves Horizontal and Vertical sync identification (both 1fH and 2fH) as well as YC detection (via a SW algorithm).

YUV Multiplexer

The YUV mixer selects between the YUV output of the DMSD and 1fH component video input signals (RGB, YPbPr) or 2fH input signals (RGB, YPbPr, ATSC). The YUV mixer can also be controlled via a fast blanking input (SCART) to insert RGB signals, such as descrambler OSD or full RGB insertion of DVD players.

When a 2fH input signal is selected as an input, the complete primary VIDDEC is running at 2fH (54 MHz), including DMSD (in this scenario, the DMSD cannot be used any more for CVBS input signals, and as such, VBI data slicing cannot be done).

Feature Box

The Feature Box (FBX) in the ADOC can be divided into three functional parts: The front-end features (FEF), memory-based features (MBF), and back end features (BEF).

The FEF part of the FBX implements all signal analysis functions as well as black stretch and histogram correction. The MBF part applies spatial scaling, temporal noise reduction and up-conversion to either progressive scan or a double field rate (100 Hz).

The BEF part implements spatial picture enhancement functions like sharpness and colour enhancement functions, sharpness measurement and horizontal scaling and panorama. The FBX has two video inputs coming from VIDDEC 1 and 2, and outputs one RGB video stream to the display output processor (DOP).

The following sections describe the three functional parts of FBX in more detail.

Front End Features (FEF)

The FEF consists of several signal analysis functions (HME, BLD, BBD, NEST), histogram correction (HMO) and black-stretch (BS). Following figure shows the functional block diagram of the video front-end features (FEF). All signal processing in the FEF is nine bits based.

The FEF has two video inputs coming from the VIDDECs. For every block, one video source can be chosen as input, independently for every block. The FEF has two video outputs, designated as "main" and "sub".

Histogram modification can only be performed on the main channel; therefore, the HME block is general connected to the same video source as the main channel. Besides the two VIDDEC inputs, there is also a third virtual input, the "blanking" input. Only main and sub can be connected to this blanking input, and at the same time, it can be specified which sync source has to be used (VIDDEC1 or VIDDEC2).

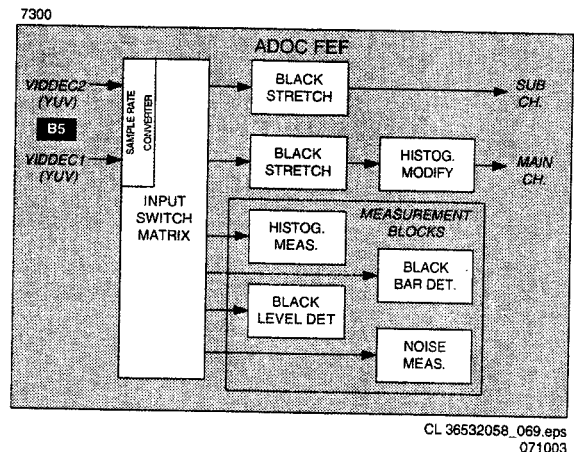


Figure 9-11 FEF block diagram

When a single stream is displayed, the main output is used for this stream. Also, all signal analysis functions should be connected to the same VIDDEC as the main channel is connected to.

When two streams are displayed, then there are two user scenarios: Picture In Picture (PIP) and Double Window (DW). In the PIP scenario, the full screen picture is displayed via the main channel, and the PIP stream is switched to sub. In the DW scenario, selection of the video sources for main and sub depends on if the two streams have a different vertical resolution and how the system has to cope with this difference.

Following blocks are present:

- **Black Stretch (BS).** The function of BS is to pull the dark areas in a picture to even darker levels. BS is available in both the main and sub channel.
- **Histogram (HMx).** This block measures of every field in a programmable (measurement-) window the histogram of the luminance signal. The measurement window is set-up such that the area that contains the subtitles or black bars does not contribute to the histogram.
- **Black Bar Detection (BBD).** Many broadcasts or software played on TVs produce a so-called "letterboxed" picture. Black bars appear above and below the picture. Due to bad standardisation of the aspect ratio, e.g. the size of the black bars, there is a need to actively analyse the picture and determine of the picture is in letterbox format and what the size of the black bars is. Black bars are detected by determining if a defined number of pixels (analysed within a programmable window located in active video) are black. The output of the BBD is the first non-black line and the last non-black line.
- **Black Level Detection (BLD).** The BLD determines within a programmable (measurement) window the "black level" of a picture. The BLD will be used for the BS, but if required, it can also be used for the BBD. The BLD function records in multiple small windows within the measurement window the maximum luminance. The minimum luminance level of the various recorded maximum luminance levels is the true black level. By measuring the maximum luminance level in a small window, the BLD is not sensitive to "black" spikes.
- **Noise Estimation (NEST).** The NEST block analyses the video and outputs a number correlating to the amount of noise in the picture. A basic problem is that picture detail is also 'recognised' as noise. Several control- and status-

registers are added to compensate this. The video signal is only analysed when it is within a programmable (measurement) window. This window coincides with a rectangular shaped part of the (visible) picture. Normally this is the centre part of the picture.

Memory Based Features (MBF)

The Memory Based Features (MBF) block embodies a set of functions that require (shared) memory.

The main and sub video streams can be spatially compressed in order to produce a mixed output in the form of several PIP combinations or DW.

The main video stream can be passed through a temporal noise reduction circuit (DNR).

The 3D Comb filter is also implemented in this block.

The main and sub streams are merged when reading from memory. The merged video stream can be up-converted to either a double line rate (progressive scan) or to a double field rate (100 Hz). The up-conversion is done by means of a digital scan function. Following figure shows the functional block diagram of the video memory based features (MBF).

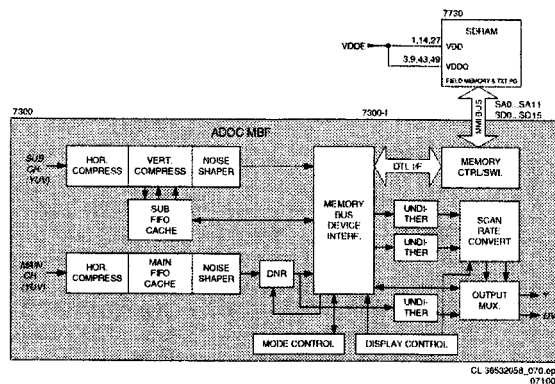


Figure 9-12 MBF block diagram

Back End Features (BEF)

The Back End Features (BEF) block embodies a collection of spatial picture enhancement functions.

The video display has to be blanked during AV switching, channel switching, V-chip, and Child Lock modes. This is done inside the BEF block of the ADOC IC. The fast blanking signal input from SCART1 and SCART3 (TV SCART inputs) for RGB video insertion is connected to the ADOC IC.

Sharpness functions are:

- Luminance Transient Improvement (LTI),
- Dynamic Peaking, and
- Digital Colour Transient Improvement (DCTI).

The panorama block does the non-linear scaling for displaying 4:3 formats on a wide-screen display.

Colour enhancement functions are:

- Skin Tone Control,
- Blue Stretch, and
- Green Enhancement.

A colour Space Converter can convert the video signal from YUV to RGB format. The Frame Processing block can insert frames and borders such as a coloured frame around the Picture in Picture (PIP). Following figure shows the structure of the Back End Feature block.

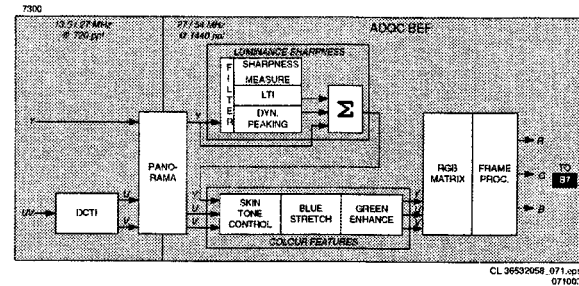


Figure 9-13 BEF block diagram

Digital Output Processor (DOP)

The DOP is a display processor block, and contains the following functions:

- **RGB control processor** with linear RGB input for the main video signal, a linear RGB input for OSD/text signals with blending, and an RGB output stage with black current stabilisation which is realised with the continuous cathode calibration (2-point black current measurement) system.
- **Programmable deflection processor**, driven by an external crystal clock, which generates the drive signals for the horizontal, east-west, north-south and vertical deflection with extensive geometry correction capabilities.
- The circuit can be used in both single scan (50 or 60 Hz) and double scan (100 or 120 Hz) applications.

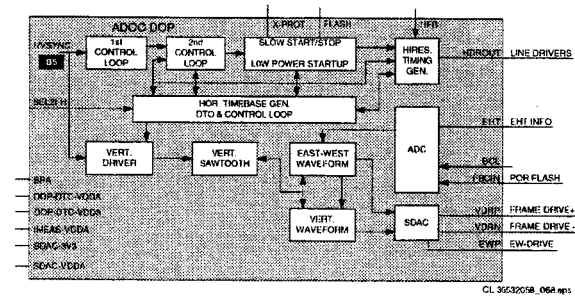


Figure 9-14 DOP block diagram

RGB Control Processing

- The RGB control circuit of the DOP contains two sets of input signals:
 - The first RGB input (RGB), 10 bits wide, is intended for the normal video signals coming from the BEF part. The "RGB" signals will first enter a contrast control stage, followed by a brightness control stage, both influenced by a combination of user control, Beam Current Limiter and Peak White Limiter, followed by a soft clipper stage. Then the signal will be applied to the blender stage. The blender input signal will be used as an input for the peak white limiting system.
 - The second RGB input (GFX), 4 bits wide, is intended for OSD and Teletext signals. The switching between the internal signal and the OSD signal is realised via a blending function. The "GFX" input signals will be reformatted to 10 bit wide internally before entering the Beam Current Control brightness correction stage, followed by the hard clip stage. Then the signal will also be applied to the blender stage.
- The two input data streams are combined into one stream by the blender. This blender is controlled by a third data stream.
- The next block is the "Drive Adjust" part. It contains a Picture Tube Biasing system, a Beam Current Control, and Peak White Limiting part.

In order to enhance the spatial bandwidth of the CRT display, Scan Velocity Modulation (SCAVER) is implemented on the CRT-panel.

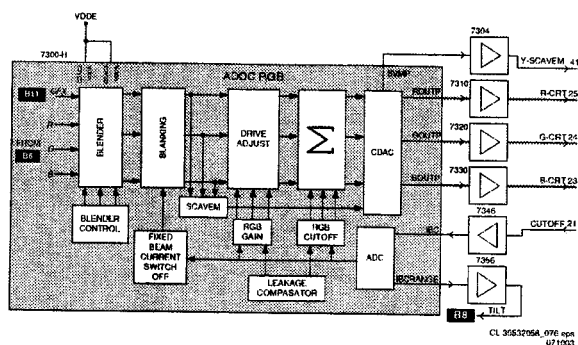


Figure 9-15 ADOC RGB control block diagram

Synchronisation and Deflection Processing

- **Horizontal synchronisation and drive circuit.** The horizontal drive signal is obtained from an internal oscillator, which runs at a fixed frequency of 54 MHz. This oscillator is synchronised to the incoming horizontal H_D pulse by means of a digital PLL. The horizontal drive signal is generated by a second control loop, which compares the phase of the reference signal, applied from the internal DTO, to the horizontal flyback pulse HFB.
- **Vertical deflection and drive circuit.** The drive signals for the vertical and E/W deflection circuits are generated by a vertical divider, which derives its reference signal from the Horizontal Time base Generator. This divider is synchronised by the incoming V_D pulse, generated by the input processor or the Feature Box. The vertical drive output is realised by a differential voltage, which is generated by SDACs. The outputs must be DC-coupled to the vertical output stage (TDA8177, item 7620 on the LSP).

See also figure "DOP block diagram"

9.5 Synchronisation

9.5.1 Sync Flow

The CVBS signal on the SCART1 connector (CVBS-SC1_AV1-IN system signal path; designated as EXT 1 CVBS) is used to provide synchronisation for the EXT1 RGB input. Besides providing synchronisation for RGB source, EXT1 CVBS is also required for SCART2 CVBS output.

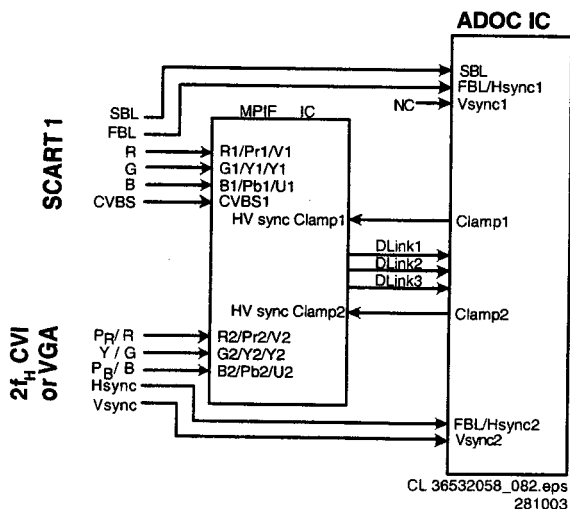


Figure 9-16 Sync flow block diagram

For 1fH CVI input, synchronisation is derived from sync-on-Y. For the 2fH CVI input, synchronisation signal is derived from sync-on-Y input or the H_SYNC/V_SYNC. In case of VGA input, synchronisation signal is taken from H_SYNC and V_SYNC inputs

9.6 Audio

9.6.1 Introduction

Sound IF processing, audio source selection, and audio analogue-digital signal conversions are done in the MPIF IC. SIF demodulation, sound system auto-detection, audio base-band, and headphone processing is done in the ADOC IC. Therefore, the ADOC contains a digital TV sound processor for analogue and digital multi-channel sound systems in TV sets. By hardware programming, several applications can be scaled.

The sound processing of the SALSA system can be split into three parts:

- Initial source selection and analogue to digital conversion performed by MPIF.
- Demodulator and Decoder (DEMDEC) performed by the ADOC.
- Back End Features (BEF) performed by the ADOC.

9.6.2 MPIF Sound part

The (main) Tuner receives an RF signal and converts it to IF. Via the appropriate SAW filters, the SIF signal is delivered to the QSS mixer stage of the MPIF IC and if channels according to standard L/L' are received also to the AM demodulator. The Quasi Split Sound demodulation generates the SSIF or intercarrier signal. By the SSIF switch, it is possible to choose between the internally derived intercarrier and an external second SIF (e.g. from a PIP front end or 10.7 MHz radio). The selected SSIF passes some anti-alias filtering, is amplified in an AGC amplifier and is then converted from analogue to digital (SSIF AGC/ADC). Together with other signals, the digitised SSIF is transferred via an I2D-Link to the ADOC IC.

The audio signal out of the AM demodulator is connected to the analogue X-bar in the MPIF IC. All other inputs to this multiplexer/audio switch come from external, either from the PIP front end (AMEXT/PIPMONO) or SCART/CINCH (AUDxin) or the DAC1, DAC2 output signals from ADOC. The audio AD converters are digitising the audio signals foreseen for further digital processing in ADOC. Three stereo outputs (AUDx out, LINE out) are available for connections to SCART/CINCH sockets.

The sound part of ADOC consists of the demodulator/decoder (DEMDEC), sample rate conversion (SRC), a digital input X-bar, the digital audio processing for the loudspeaker, headphone and DAC channels, the I2S processing and interfacing as well as the DA conversion. This part will be described in the next chapter.

9.6.3 ADOC Sound part

Introduction

The ADOC sound part contains two DSP cores as shown in the block diagram. The first core called DEMDEC-DSP is combined with DEMDEC (Demodulation/Decoding) hardware and the second core is the AUDIO-DSP. The DEMDEC-DSP is used for the decoder and demodulator tasks, plus the sample rate conversion.

The AUDIO-DSP is used for the sound features, from the level adjust unit up to the output cross bar. Audio DACs and I2S hardware (optional) are converting the processed signals to analogue or digital audio.

All I2D data links carry sound signals. The data link processing splits them from the other signals as video so that the DEMDEC block receives the second sound IF (SSIF) and the audio

signals from the audio ADCs of the MPIF IC. The SSIF needs some hardware processing before it enters the DEMDEC DSP. The DEMDEC processing will be described in the next chapter. The audio signals from the audio ADCs of the MPIF are passing the DEMDEC DSP only for source selection and sample rate conversion.

In this chassis, two of the DAC **outputs** are used to feed a headphone. Two other DAC stereo outputs are provided for the audio feedback to the MPIF IC. They are located to pins of the ADOC that suit best for connection to MPIF.

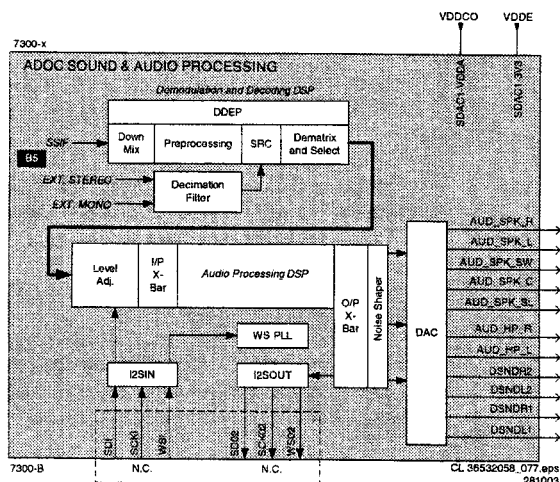


Figure 17 ADOC sound processing block diagram

DEMDEC DSP

The output signals of the above-mentioned hardware blocks, plus four audio ADC channels are read in by the DEMDEC DSP, processed, converted to the current audio sample rate, "demultiplexed", and forwarded to the Audio DSP for further processing (volume, tone control, effects etc.).

Down Mixer

The digitised SSIF input signal is fed to the mixers, which mix one or both input sound carriers down to zero IF.

Pre-processing

This part contains the sound system identification and demodulation circuitry.

Audio Sample Rate Conversion (SRC)

All input signals pass through a sample rate conversion to the actual output sample rate (usually 48 kHz) such that the output rate does not need to be synchronised with any of the input rates. Up to five separate channels can be converted.

Audio Processing DSP

This block applies several filters, like down-sampling and de-emphasis, noise reduction processing, performs a sample rate conversion (SRC) to the current audio sample rate, and routes the decoded signals to the output channels.

The generic processing controls are Volume, Bass, Treble, Balance, Incredible Surround, Spatial (incredible mono), DBE, Dynamic Ultra Bass II (for non-woofer sets only), AVL, Sub-Woofers, and 5-band Graphic equaliser.

The Headphone volume can be separately controlled in the Headphone menu without affecting the master volume (the setting of the volume tables will be adapted after fine tuning). For variable volume output for USA, the DAC1 output will switch to the Main channel and therefore the same volume curve for the Main Channel can be used.

9.6.4 Audio Amplifier

Speakers (diagram A6)

The audio output stage is built around IC7701, which is a balanced amplifier, and is located on the LSP. It uses an monolithic integrated power amplifier IC, the TDA7497. The gain of the amplifier is constant. This means that volume control is done via the ADOC.

The supply voltage is +28 V, generated by the power supply via L5506 (or L5512). The TDA7497 delivers an output of 3 x 10 W_{rms} to two full range speakers and an (optional) subwoofer.

Muting

There are three types of muting available: system mute, headphone status mute, and user mute.

- **System mute.** System muting is implemented for "special events" such as channel/source change event, loss of identification signal, "on/off" switching of the set, during search and auto store/program, and/or sound mode change. This muting is transparent to the user. Audio output is muted before the above "special events" occurred, to prevent problems such as audible pop. Muting is done via the SOUND-ENABLE (software controlled) and/or POR (hardware controlled) line connected (via TS7710 and 7711) to pin 10 of the amplifier-IC and coming from the ADOC microprocessor.
- **Headphone status mute.** A headphone status is available to detect the presence of the headphone and mute the main speakers if the headphone is detected. The microprocessor will read the FRONT-DETECT status.
- **User mute.** This is a mute option available to the user. The user select the MUTE option on the remote control to switch "off/on" the sound output to the main loudspeaker and the (optional) subwoofer.

Headphone amplifier (diagram A7)

The headphone amplifier is built around IC7751 (NJM4556), which is a high-gain, high output current dual operational amplifier. The supply voltage is +5 V.

9.7 Control

9.7.1 Introduction

The MIPS processor within the ADOC performs the control of the complete SALSA system. This part of the document will examine the functions that enable the MIPS to operate and control the remainder of the SALSA system.

Some control features:

- MIPS1910 processor (MIPS).
- Embedded SRAM.
- External Bus Interface Unit (EBIU) for external memory access.
- SDRAM Interface.
- Interrupt Controller.
- Power and Clock management.
- General Purpose I/O (GPIO).
- Analogue to Digital conversion.
- Two x I2C master/slave.
- Two x General Purpose Timers.
- UART.
- Two x Multi-standard VBI Data Capture Unit.
- EJTAG (for debug and boundary scan functions).
- Remote Control (Infra Red) pre-processing.
- Graphics.

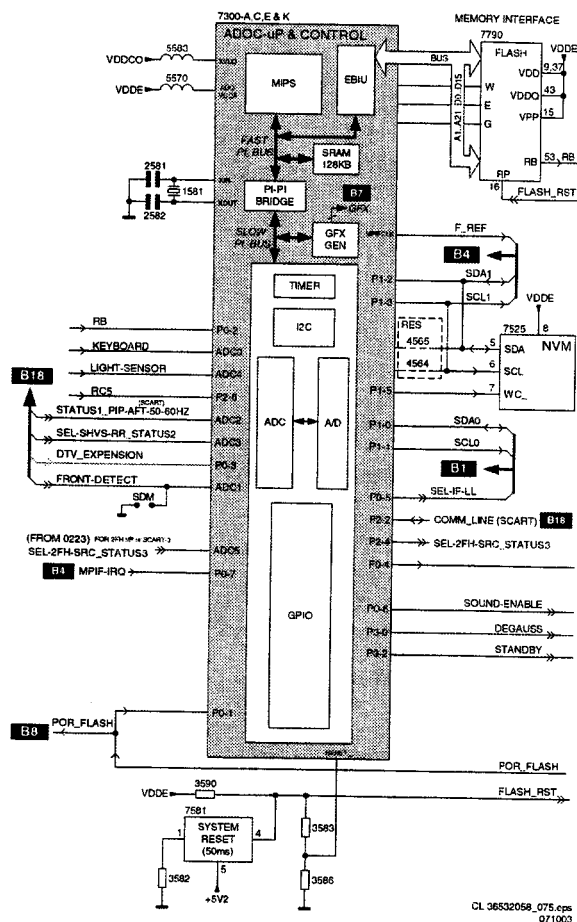


Figure 9-18 ADOC control block diagram

9.7.2 Internal Bus Structure

PI Bus

The Peripheral Interconnect (PI) bus connects all of the functional blocks within the ADOC device. Physically it is split into four distinct sections. These are referred to as:

- Fast PI Bus.
- Slow PI Bus.
- Video PI Bus.
- Sound PI Bus.

The individual segments of the PI bus are interconnected via PI-PI bridges. When several devices are connected to a bus system section only one of these may have control (ownership) of the bus section at any instant in time. The device that has control is referred to as the bus master, the remaining devices are referred to as slaves. Each bus segment section has a Bus Control Unit (BCU), which allocates bus ownership to the various modules that are capable of being bus masters. A bus master may have ownership of one or more sections of the PI bus.

Extension Bus Interface Unit

The Extension Bus Interface Unit (EBIU) allows various types of memory (ROM/FLASH/SRAM) to be attached to the ADOC IC and must therefore be configured per memory type (in terms of chip select lines, bus width used, and access times). This enables the hardware of the EBIU to correctly address the external memories and apply the correct number of wait states.

9.7.3 Microprocessor Reset

The reset of the device is split between three functions:

- Power-On-Reset (POR). Output is fed to the Power Clock Reset (PCR) block generating a Hard reset (all functions reset).
- PCR. In simplified terms two outputs are available:
 - Hard reset, all blocks within ADOC are reset.
 - Soft reset, a limited number of blocks within the control core are reset.
- GP registers are used to allow software control of the reset to certain blocks within ADOC.

9.7.4 External Bus Structure

I2C Bus

The system has two system I2C buses; one for the devices on the SSB and the other for the devices used in the external modules.

- The I2C-1 system bus, comprises of SCL and SDA, is used to control all the I2C devices on the LSP (the main tuner) and other I2C devices connected to other external panels (PIP Front-End demodulation IC, PIP tuner, etc.). The I2C-1 is a 100 kHz bus and is called as "slow" bus. It is connected to the +5V supply. All these devices are powered down in the Standby mode.
- The I2C-2 system bus, comprises of SCL2 and SDA2, is used to control all the I2C devices (MPIF, 3D-Comb, NVM, etc.) present on the SSB. The I2C-2 is a 400 kHz bus and is called as "fast" bus. It is connected to the +3.3V supply.

9.8 Protections

For a detailed description, see chapter 5 "Service Modes, Error Codes, and Fault Finding".

9.9 Software Upgrading

In this chassis, you can **upgrade** the software via ComPair. This offers the possibility, to replace the entire SW image without having to remove the flash-RAM from its socket. You can find more information on how this procedure works in the ComPair file. It is possible that not all sets are equipped with the hardware, needed to make software upgrading possible. To speed up the programming process, the firmware of the ComPair interface can be upgraded. See Chapter "Service Modes ..."; paragraph "ComPair" - "How To Order" for the order number.

9.10 Abbreviation list

Table 9-1 Abbreviations

Abbreviation	Description
0/6/12	SCART switch control signal on A/V board. 0 = loop through (AUX to TV), 6 = play 16:9 format, 12 = play 4:3 format
2CS	2 Carrier Stereo
A2	Commonly known as two carriers sound (2CS) system
AC (or ac)	Alternating Current
ACI	Automatic Channel Installation: algorithm that installs TV channels directly from a cable network by means of a predefined TXT page
ADC	Analogue to Digital Converter
ADOC	Analogue Digital One Chip
AFC	Automatic Frequency Control: control signal used to tune to the correct frequency
AGC	Automatic gain control (feedback) signal to the tuner.
AM	Amplitude Modulation
ANR	Automatic Noise Reduction: one of the algorithms of Auto TV
AP / AP	Asia Pacific
AR	Aspect Ratio: 4 by 3 or 16 by 9
ASD	Automatic Standard Detection
AV	External Audio Video
AVL	Automatic Volume Level control
B	Blue
B/G	Monochrome TV system. Sound carrier distance is 5.5 MHz
BBD	Black Bar Detection
BCL	Beam Current Limiter
BC-PROT	PROTection signal to the microprocessor for a too high Beam Current.
BG	System B and G
BLC-INFO	BLack Current INFO
BLD	Black Level Detection
BS	Black Stretch
BTSC	Broadcast Television Standard Committee. Multiplex FM stereo sound system, originating from the USA and used e.g. in LATAM and AP-NTSC countries
C	Chroma (video) / Centre channel (audio)
CL	Constant Level: audio output to connect with an external amplifier
CLUT	Colour Look Up Table
ComPair	Computer aided rePair
CRT	Cathode Ray Tube or picture tube
CSM	Customer Service Mode
CTI	Colour Transient Improvement: manipulates steepness of chroma transients
CVBS	Composite Video Blanking and Synchronization
CVI	Component Video Input
D/K	Monochrome TV system. Sound carrier distance is 6.5 MHz
DAC	Digital to Analogue Converter
DBE	Dynamic Bass Enhancement: extra low frequency amplification
DC (or dc)	Direct Current
DCC	Dynamic Contrast Control
DC-filament	Filament supply voltage
DEGAUSS	Control line. Logic LOW to enable CRT degaussing. Logic HIGH to disable the CRT degaussing.
DFU	Directions For Use: owner's manual
DNR	Digital Noise Reduction: noise reduction feature of the set
DOP	Digital Output Processor (Part of ADOC which takes care of RGB control and detection)
DPL	Dolby Pro Logic
DRAM	Dynamic RAM
DS	Digital Scan
DSP	Digital Signal Processing
DST	Dealer Service Tool: special remote control designed for dealers to enter e.g. service mode (a DST-emulator is available in ComPair)
DTS	Digital Theatre Sound
DVD	Digital Versatile Disc
DVI(-d)	Digital Visual Interface (d= digital only)
DW	Double Window
DYN-FASE-COR	Dynamic phase correction, to correct the phase of the H-drive
EEPROM	Electrically Erasable and Programmable Read Only Memory
EHT	Extra High Tension
EHT-INFO	Extra High Tension INfOrmation, used for contrast reduction, vertical and horizontal amplitude correction, beam current protection, and flash detection

Abbreviation	Description
EMI	Electro Magnetic Interference
EPG	Electronic Program Guide: system used by broadcasters to transmit TV guide information (= NexTVView)
EPLD	Erasable Programmable Logic Device
EU	Europe
EW	East West, related to horizontal deflection of the set
EW-DRIVE	East -West correction drive signal.
EXT	EXTeRnal (source), entering the set by SCART or by Cinches (jacks)
FBL	Fast BLanking: DC signal accompanying RGB signals
FBX	Feature Box: module which contains 100 Hz processing, Pixel Plus, and AutoTV algorithms (FBX6= based on PICNIC, FBX7= based on PICNIC and Eagle)
FE	Front End
Field	Each interlaced broadcast FRAME is composed of two Fields, each Field consists of either Odd or Even lines
FILAMENT	Filament of CRT
FLASH	FLASH memory
FM	Field Memory / Frequency Modulation
FM Radio	Audio receiver which can receive the FM Band 87.5 - 108 MHz
FMR	FM Radio
Frame	A complete TV picture comprising of all lines (625/525)
FRAMEDRIV E -	Differential frame (vertical) drive signal (negative)
FRAMEDRIV E +	Differential frame (vertical) drive signal (positive)
FRC	Frame Rate Converter
FRONT-DETECT	Control line for detection of headphone insertion, Service Mode jumper, power failure detection.
FRONT-Y_CVBS	Front input luminance or CVBS (SVHS)
G	Green
Gb/s	Giga bits per second
H	H_sync to the module
H_2FH	Horizontal sync input for the 2FH source.
H_A50	Horizontal Acquisition 1fH: horizontal sync pulse coming out of the HIP
H_D100	Horizontal Drive 2fH: horizontal sync pulse coming out of the feature-box
H_DRIVE	Horizontal Drive
H_FLYBACK	Horizontal Flyback
H_OUT	H_sync output of the module
H_OUT	Horizontal Output pulse
HA	Horizontal Acquisition: horizontal sync pulse coming out of the BOCMA
HD	High Definition
HEADPHONE -L	Stereo headphone (Left) signal output.
HEADPHONE -R	Stereo headphone (Right) signal output.
HFB	Horizontal Flyback Pulse: horizontal sync pulse from large signal deflection
HP	HeadPhone
HW	Hardware
I	Monochrome TV system. Sound carrier distance is 6.0 MHz
I2C	Integrated IC bus (same as IIC)
I2S	Integrated IC Sound bus
IC	Integrated Circuit
IDRIVE-	Vertical drive -
IDRIVE+	Vertical drive +
IF	Intermediate Frequency
IF-TER	IF signal from main tuner
IIC	Integrated IC bus (same as I2C)
Interlaced	Scan mode where two fields are used to form one frame. Each field contains half the number of the total amount of lines. The fields are written in "pairs", causing line flicker.
IO	In/Out
IR	Infra Red
IROM	Internal ROM (inside uP)
IRQ	Interrupt ReQuest
ITV	Institutional TV
JTAG	Joint Test Action Group. Definition for a standardised serial test interface
KEYB	Front panel keyboard
KEYBOARD	Input line: carries the voltage value of the corresponding tact switch on TOP-control or FRONT-control keypad
L	Left audio channel

Abbreviation	Description
L/L'	Monochrome TV system. Sound carrier distance is 6.5 MHz. L' is Band I, L is all bands except for Band I
Last Status	The settings last chosen by the customer and read and stored in RAM or in the NVM. They are called at startup of the set to configure it according to the customer's preferences
LATAM	Latin America
LCD	Liquid Crystal Display
L-CL_VLOUT	REAR CINCH stereo output
LED	Light Emitting Diode
LFE	Low Frequency Enhancement audio channel
L-FRONT-IN	EXT3 stereo input
LIGHT-SENSOR	Ambient light intensity signal.
LINE DRIVE	Line drive signal (for the Line transistor)
LINEDRIVE1	Horizontal (line) deflection drive signal.
LNA	Low Noise Adapter / Low Noise Amplifier
LOT	Line Output Transformer
LPD	LG: Philips Displays
LS	Loudspeaker
Ls, Rs	Left surround and Right surround channel (audio)
LSP	Large signal panel
Lt, Rt	Left total and Right total in case of a Dolby ProLogic encoded signal (audio)
LTi	Luminance Transient Improvement
LTP	Luminance Transient Processor
LUT	Look Up Table
LVDS	Low Voltage Differential Signalling, data transmission system for high speed and low EMI communication.
M/N	Monochrome TV system. Sound carrier distance is 4.5 MHz
Mb/s	Mega bits per second
MCS	Multi Channel Sound: refers to Dolby Pro Logic Surround in A02 ADOC
MDO	Mode control data output
MIPS	Microprocessor without Interlocked Pipeline-Stages. A RISC-based microprocessor.
Mips	Million instructions per second
MMI	Multi Media Interface
MOSFET	Metal Oxide Semiconductor Field Effect Transistor
MPEG	Motion Pictures Experts Group
MPIF	Multi Platform InterFace (Part of Salsa chipset, sister-chip of ADOC IC)
MPIP	Multi Picture in Picture: commercial feature showing several frozen or moving pips
MPX	MultiPlex
MSP	Multi-standard Sound Processor: ITT sound decoder
MUTE	MUTE Line
NAFTA	North American Free Trade Area (NAFTA & USA are used interchangeably)
NC	Not Connected
NDF	No vertical Deflection: vertical fly back protection
NHF	No Horizontal deflection: horizontal fly back protection
NICAM	Near Instantaneously Companded Audio Multiplexing. This is a digital sound system, mainly used in Europe.
NTC	Negative Temperature Coefficient, non-linear resistor
NTSC	National Television Standard Committee. Colour system mainly used in North America and Japan. Colour carrier NTSC M/N= 3.579545 MHz, NTSC 4.43= 4.433619 MHz (this is a VCR norm, it is not transmitted off-air)
NVM	Non Volatile Memory: IC containing data such as alignments, stations
O/C	Open Circuit
OB	Option Byte
OC	Open Circuit
ON/OFF LED	On/Off control signal for the LED
ON/STBY	On/Standby
ON-OFF-LED	Active-LOW control line. Logic LOW = red LED on, HIGH = red LED off.
OP	Option Byte
OSD	On Screen Display
P50	Project 50: communication protocol between TV and peripherals
PAL	Phase Alternating Line. Colour system mainly used in West Europe (colour carrier= 4.433619 MHz) and South America (colour carrier PAL M= 3.575612 MHz and PAL N= 3.582056 MHz)
PC	Personal Computer
PCB	Printed Circuit Board (same as "PCB")
PCM	Pulse Code Modulation
PILOT	Pilot Signal

Abbreviation	Description
PIP	Picture In Picture
PLL	Phase Locked Loop. Used for e.g. FST tuning systems. The customer can give directly the desired frequency
POR	Power On Reset, signal to reset the microprocessor
POR_FLASH	Signal that informs the micro controller (painter) that set will switch off
Progressive Scan	Scan mode where all scan lines are displayed in one frame at the same time, creating a double vertical resolution.
PTC	Positive Temperature Coefficient, non linear resistor
PTP	Picture Tube Panel
PWB	Printed Wiring Board (same as "PCB")
PWM	Pulse Width Modulation
QSS	Quasi Split Sound
R	Right audio channel
R	Red
RAM	Random Access Memory
RC	Remote Control transmitter
RC5	Remote Control system 5, the signal from the remote control
RC5 / RC6	Signal protocol from the remote control receiver
RDS	Radio Data System
RESET	RESET signal
RF	Real Flat / Radio Frequency
RGB	Red, Green, and Blue. The primary colour signals for TV. By mixing levels of R, G, and B, all colours (Y/C) are reproduced.
RGBHV	Red, Green, Blue, Horizontal sync, and Vertical sync
RISC	Reduced Instructions Set Computer
RMS	Root Mean Square value
ROM	Read Only Memory
S	Surround channel or mono surround channel (audio)
S/C	Short Circuit
S/PDIF	Sony Philips Digital InterFace
SALSA	System Application for Low Segment of Analogue TV
SAM	Service Alignment Mode
SAP	Second Audio Program
SAW	Surface Acoustics Wave
SC	SandCastle: two-level pulse derived from sync signals / SCART
SCART	Syndicat des Constructeurs d'Appareils Radiorecepteurs et Televisieurs
SCAVERM	Scan Velocity Modulation
SCL	Serial Clock I2C
SCL-F	CLock Signal on Fast I2C bus
SD	Standard Definition
SDA	Serial Data I2C
SDA-F	Data Signal on Fast I2C bus
SDAM	Service Default / Alignment Mode
SDRAM	Synchronous DRAM
SECAM	SEquence Couleur Avec Memoire: Colour system mainly used in France and East Europe. Colour carriers= 4.406250 MHz and 4.250000 MHz
SEL	Control signal
SIF	Sound Intermediate Frequency
SIMM	Single In-line Memory Module: 80-fold connector between LSP and SSB
SL	Audio Surround Left
SLDP	Smart Local Dooming Prevention (HW and SW)
SMC	Surface Mounted Components
SMPS	Switched Mode Power Supply
SND	SouND
SNERT	Synchronous No parity Eight bit Reception and Transmit
SOG	Sync On Green
SOPS	Self Oscillating Power Supply
SOUND-ENABLE	Control line to do hardware mute or un-mute of loudspeakers.
SR	Audio Surround Right
SRAM	Static RAM
SS	Small Screen
ST_BY	Standby
STANDBY (POR)	Signal coming from Main Supply informing the supply is switching off
STATUS	Status signal from pin 8 on SCART connector
STBY	Standby
SURR	Surround (mono) signal
SVHS	Super Video Home System
SW	Software / Subwoofer
SW1	Switch 1
TBD	To Be Defined

Abbreviation	Description
THD	Total Harmonic Distortion
TILT	PWM Output signal (variable DC level) to control the picture tilt from the DOP block of the ADOC.
Trinorma	Video standard, combination of PAL N, PAL M, NTSC M
TXT	Teletext
TXTSW	Teletext switch
U_100	U from Feature Box
UART	Universal Asynchronous Receiver Transmitter
UBE	Ultra Bass Enhancement
uC	Micro controller
UI	User Interface
UOC	Ultimate One Chip
uP	Microprocessor
UV	Colour difference signals
V	V_sync
V_100	V from Feature Box
V_2FH	Vertical sync input for the 2fH source.
V_A50	Vertical Acquisition 1fH
V_AMP	Vertical Amplitude DAC output
V_BAT	Main supply for deflection (usually 141 V)
V_D100	Vertical Drive 2fH: vertical sync pulse from deflection
V_DNEG	One of the symmetrical drive signals for the DC frame output stage.
V_DPOS	One of the symmetrical drive signals for the DC frame output stage.
V_OSD	Vertical OSD
VA	Vertical Acquisition
VBI	Vertical Blank Interval
V-chip	Violence chip
VCR	Video Cassette Recorder
VD	Vertical Drive: vertical sync pulse coming from the feature box
VDS	Virtual Dolby Surround
VERT	Vertical Output pulse
VESA	Video Electronics Standards Association
VGA	Video Graphics Array: 640x480 (4:3)
VGND	Video ground
VGUARD	Vertical guard voltage
VIF	Video Intermediate Frequency
VL	Variable Level out: processed audio output toward external amplifier
VMEM	Voltage supplied for EEPROM
VMICRO	Power supply for micro controller
VOL	Volume
VSYNC	Pulse derived of 530 s-circuit behind the HOP, to vertically synchronize the Painter
WD	Watch Dog
WE-NVM	NVM write enable control line.
WS	Wide Screen
WSS	Wide Screen Signaling, used by broadcasters to transmit e.g. PALPLUS and Aspect Ratio
WST	World System Teletext
WXGA	1280x768 (15:9)
WYSIWYR	What You See Is What You Record: record selection that follows main picture and sound
XGA	Extended Graphics Array: 1024x768 (4:3)
XTAL	Quartz crystal
Y	Luminance signal
YC (or Y/C)	Luminance (Y) and Chrominance (C) signal (analogue video encoding format)
YPbPr	Component video (Y= Luminance, Pb/ Pr= Colour difference signals)
YUV	Component video

9.11 IC Data Sheets

This section shows the internal block diagrams and pin layouts of ICs that are drawn as "black boxes" in the electrical diagrams (with the exception of "memory" and "logic" ICs). This is not applicable to this manual.

10. Spare Parts List

Large Signal Panel [A]

Various

0080	4822 492 70789	Transistor clamp	2153	5322 126 11582	6.8nF 10% 63V	2537	4822 124 11913	22nF 20% 275V
0136	3104 301 24181	Spring for Bracket	2154	4822 126 14549	33nF 16V 0603	2538	4822 122 33177	10nF 20% 50V
0137	3104 301 24181	Spring for Bracket	2161	2020 558 90556	680pF 10%b 1kV	2540	4822 124 21913	1µF 20% 63V
0138	4822 255 41371	Transistor clamp	2161	4822 126 14152	680pF 10% 1kV	2541	4822 122 31211	100pF 10% 500V
0139	4822 492 62076	Transistor clamp	2163	2222 338 22104	100nF 20% 275V	2544	4822 126 14238	2.2nF 50V 0603
0261	3104 304 10661	Cable clamp	2200	4822 124 40248	10µF 20% 63V	2547	2222 338 22104	100nF 20% 275V
0262	3104 304 10722	Cable clamp	2201	4822 126 13879	220nF 20% 16V	2601	2238 586 59812	100nF 20-80% 50V 0603
0320	4822 255 41371	Transistor clamp	2202	4822 126 13473	220nF 80-20% 50V	2603	4822 126 13883	220pF 5% 50V
0341	4822 492 70788	IC clamp	2203	4822 124 41584	100µF 20% 10V	2604	4822 126 13473	220nF 80-20% 50V
0389	4822 492 70789	Transistor clamp	2400	4822 124 11936	47µF 20% 160V	2605	4822 126 13883	220pF 5% 50V
0395	4822 492 70789	Transistor clamp	2401	4822 121 42077	6.8nF 10% 400V	2620	4822 126 13473	220nF 80-20% 50V
0396	4822 492 70789	Transistor clamp	2402	4822 124 12373	47µF 20% 250V	2621	2238 586 59812	100nF 20-80% 50V 0603
1205	2422 025 17242	Connector 80p f	2403	2238 916 15641	22nF 10% 25V 0603	2622	4822 124 40255	100µF 20% 63V
1417	4822 265 20723	Connector 2p m	2404	2238 916 15641	22nF 10% 25V 0603	2623	4822 126 14238	2.2nF 50V 0603
1424	2422 025 11244	Connector 7p m	2405	4822 126 13841	1nF 20% 250V	2624	4822 121 51252	470nF 5% 63V
1491	4822 267 10973	Connector 1p m	2412	3198 024 44730	47nF 50V 0603	2625	4822 121 51252	470nF 5% 63V
1498	2422 025 04849	Connector 2p m	2413	4822 124 12255	10µF 20% 50V	2627	5322 124 40641	10µF 20% 100V
1499	2422 025 04849	Connector 2p m	2414	3198 024 44730	47nF 50V 0603	2628	4822 124 40255	100µF 20% 63V
1501	4822 070 35002	Fuse 5A	2415	4822 126 13883	220pF 5% 50V	2630	4822 126 14491	2.2µF -20+80% 10V 0805
1502	4822 267 10774	Connector 2p m Rd	2417	4822 126 14076	220nF 25V 20%	2631	4822 126 14491	2.2µF -20+80% 10V 0805
1503	4822 070 12502	Fuse 2.5A	2419	4822 126 14237	470pF 10% 2kV	2633	5322 126 11579	3.3nF 10% 63V
1505	2422 025 16374	Connector 2p m	2420	4822 121 70581	1.5nF 5% 2kV	2635	2238 586 59812	100nF 20-80% 50V 0603
1511	4822 265 11253	Fuse holder 2p	2420	4822 121 70594	1nF 5% 2kV	2642	4822 124 40255	100µF 20% 63V
1512	4822 265 11253	Fuse holder 2p	2421	2038 301 00312	1.2µF 5% 250V	2653	2238 586 15628	2.7nF 10% 50V 0603
1550	2422 132 07411	Relay 1p 5V 5A	2421	4822 121 42634	560nF 5% 250V	2653	5322 126 11579	3.3nF 10% 63V
1590	4822 252 60151	Sparkgap dsp501	2425	4822 121 10526	9.1nF 5% 2kV	2656	2238 916 15641	22nF 10% 25V 0603
1591	4822 252 60151	Sparkgap dsp501	2425	4822 121 70435	10nF 5% 2kV	2657	2238 916 15641	22nF 10% 25V 0603
1601	2422 086 10919	Fuse 65V 125mA	2426	4822 121 10653	22nF 5% 630V	2659	2238 916 15641	22nF 10% 25V 0603
1620	4822 267 10735	Connector 3p m	2430	4822 126 10206	2.2nF 10% 500V	2660	5322 126 11578	1nF 10% 50V 0603
1625	2422 025 16382	Connector 3p m	2431	4822 126 10206	2.2nF 10% 500V	2701	4822 126 14043	1µF 20% 16V
1735	4822 267 10565	Connector 4p	2433	2022 333 00087	510nF 5% 250V	2702	3198 016 31020	1nF 10% 25V 0603
1901	4822 267 10771	Socket 2 x SCART	2433	2022 333 00163	360nF 5% 250V	2703	4822 126 14043	1µF 20% 16V
1902	4822 267 10982	Connector 2p	2440	2020 552 96448	1µF 10% 16V	2704	3198 016 31020	1nF 10% 25V 0603
1936	2422 025 12485	Connector 11p m	2443	9965 000 09661	470pF 50V 10%	2707	4822 126 14043	1µF 20% 16V
1940	2422 025 12485	Connector 11p m	2448	5322 122 32268	470pF 5% 63V	2708	4822 124 11767	470µF 20% 25V
1943	4822 267 10748	Connector 3p m	2450	4822 121 42408	220nF 10% 50V	2709	3198 026 51020	1000µF 50V 20%
1945	4822 267 10735	Connector 3p m	2451	5322 121 42578	100nF 5% 250V	2710	4822 126 14585	100nF 10% 50V
1947	4822 267 10734	Connector 5p m	2451	2020 012 93757	1000µF 20% 10V	2711	4822 124 80061	1000µF 20% 25V
8000	3104 311 03272	Cable 640mm EHT	2454	3198 017 31530	15nF 20% 50V 0603	2712	3198 017 34730	47nF 16V 0603
8193	4822 320 20216	Focus cable 364 mm	2455	5322 126 11578	1nF 10% 50V 0603	2713	3198 017 34730	47nF 16V 0603
8194	4822 320 20189	Cable HT-focus 44cm Rd	2457	4822 126 13188	15nF 5% 63V	2714	4822 124 80061	1000µF 20% 25V
8417	3104 311 04561	Cable 2p3/400/2p3	2458	4822 126 14241	330pF 50V 0603	2715	3198 017 34730	47nF 16V 0603
8424	3104 311 02991	Cable 7p/560/7p Wh	2460	4822 124 81144	1000µF 16V	2716	3198 017 34730	47nF 16V 0603
8625	3104 311 03101	Cable 3p/560/3p Bk	2461	4822 122 31169	1.5nF 10% 500V	2722	4822 124 40255	100µF 20% 63V
8625	3104 311 06261	Cable 2p/560/2p3 HR BK INS	2461	4822 126 11524	1.5nF 10% 1kV	2914	4822 124 40248	10µF 20% 63V
8936	3104 311 04121	Cable 11p/680/11p INS	2462	4822 124 11767	470µF 20% 25V	2915	4822 124 40248	10µF 20% 63V
8936	4822 320 12514	Cable 11p 680mm	2463	4822 122 31177	470pF 10% 500V	2918	4822 126 14585	100nF 10% 50V
8940	3104 311 01161	Cable 11p/340/11p Bk	2464	4822 124 11767	470µF 20% 25V	2940	4822 124 41584	100µF 20% 10V
8940	4822 323 10458	Cable 11p 480mm HR WH	2465	4822 122 31177	470pF 10% 500V	2941	4822 126 14585	100nF 10% 50V
			2466	2238 586 59812	100nF 20-80% 50V 0603	2942	4822 126 14585	100nF 10% 50V
			2468	4822 122 31177	470pF 10% 500V	2943	4822 126 14585	100nF 10% 50V
			2480	5322 126 11582	6.8nF 10% 63V	2945	4822 126 14491	2.2µF -20+80% 10V 0805
			2482	3198 017 34730	47nF 16V 0603	2946	4822 126 14491	2.2µF -20+80% 10V 0805
			2483	3198 017 31530	15nF 20% 50V 0603	2947	4822 124 40769	4.7µF 20% 100V
			2490	4822 124 41584	100µF 20% 10V	2950	5322 126 11583	10nF 10% 50V 0603
			2491	4822 124 81151	22µF 50V	2951	5322 126 11583	10nF 10% 50V 0603
			2492	4822 124 41584	100µF 20% 10V	2987	5322 122 31863	330pF 5% 63V
			2494	2238 780 15654	220nF 10% 16V	2989	5322 122 31863	330pF 5% 63V
			2495	2238 780 15654	220nF 10% 16V	2990	5322 122 31863	330pF 5% 63V
			2496	2238 586 59812	100nF 20-80% 50V 0603	2991	4822 051 20333	33kΩ 5% 0.1W
			2497	4822 126 12105	33nF 5% 50V	2991	5322 122 32531	100pF 5% 50V
			2498	2020 552 96448	1µF 10% 16V	2992	5322 122 31863	330pF 5% 63V
			2499	5322 126 11579	3.3nF 10% 63V	2993	4822 051 20333	33kΩ 5% 0.1W
			2501	4822 126 13449	1nF 10% 2kV	2993	5322 122 32531	100pF 5% 50V
			2501	4822 126 14053	1nF 10% 2kV	2994	5322 122 31863	330pF 5% 63V
			2503	5322 121 42489	33nF 5% 250V	2995	5322 122 31863	330pF 5% 63V
			2504	2238 916 15641	22nF 10% 25V 0603	2996	5322 122 31863	330pF 5% 63V
			2505	2020 554 90169	470pF 20% 250V	2997	5322 122 31863	330pF 5% 63V
			2507	2222 338 22474	470nF 20% 275V	2998	4822 051 20333	33kΩ 5% 0.1W
			2508	4822 124 11913	22nF 20% 275V	2998	5322 122 32531	100pF 5% 50V
			2509	4822 124 11913	22nF 20% 275V	2999	4822 051 20333	33kΩ 5% 0.1W
			2510	4822 126 12263	220pF 10% 2kV	2999	5322 122 32531	100pF 5% 50V
			2512	4822 124 12056	1000µF 20% 35V			
			2513	4822 126 13881	470pF 5% 50V			
			2514	4822 126 14238	2.2nF 50V 0603			
			2515	4822 124 80096	47µF 200V			
			2516	2222 057 36221	220µF 20% 400V 057			
			2518	4822 122 31211	100pF 10% 500V	3101	4822 053 20475	4.7MΩ 5% 0.25W
			2519	4822 126 10206	2.2nF 10% 500V	3102	4822 050 21002	1kΩ 1% 0.6W
			2524	5322 126 11583	10nF 10% 50V 0603	3103	4822 050 21002	1kΩ 1% 0.6W
			2525	4822 126 14247	1.5nF 50V 0603	3104	4822 116 52195	47Ω 5% 0.5W
			2526	2020 558 90571	2.2nF 10% 1kV	3105	4822 050 11002	1kΩ 1% 0.4W
			2527	4822 126 14237	470pF 10% 2kV	3106	4822 116 52256	2.2kΩ 5% 0.5W
			2528	4822 126 14472	1µF 10% 10V 0805	3107	4822 116 52256	2.2kΩ 5% 0.5W
			2530	4822 126 14472	1µF 10% 10V 0805	3108	2122 101 01363	2.2Ω 5%
			2531	4822 122 31175	1nF 10% 500V	3111	4822 053 10152	1.5kΩ 5% 1W
			2532	4822 126 14472	1µF 10% 10V 0805	3113	4822 116 52186	22Ω 5% 0.5W
			2533	2020 557 90732	4.7nF 10% 250V	3114	4822 116 52219	330Ω 5% 0.5W
			2535	4822 126 13193	4.7nF 10% 63V	3115	4822 116 52257	22kΩ 5% 0.5W
						3116	4822 116 52257	22kΩ 5% 0.5W
						3117	4822 116 52195	47Ω 5% 0.5W

—||—

—WW—

3118	2122 101 01363	2.2Ω 5%	3465	4822 052 11108	1Ω 5% 0.5W	3643	4822 051 30334	330kΩ 5% 0.062W
3120	4822 051 20109	10Ω 5% 0.1W	3466	4822 051 30472	4.7kΩ 5% 0.062W	3644	4822 051 30221	220kΩ 5% 0.062W
3123	4822 116 52176	10Ω 5% 0.5W	3467	4822 117 13632	100kΩ 1% 0.62W 0603	3645	4822 116 52245	150kΩ 5% 0.5W
3124	4822 116 52199	68Ω 5% 0.5W	3472	4822 051 30393	39kΩ 5% 0.062W	3646	4822 117 12925	47kΩ 1% 0.063W 0603
3125	4822 116 52182	15Ω 5% 0.5W	3474	4822 051 30563	56kΩ 5% 0.062W	3647	4822 051 20228	2.2Ω 5% 0.1W
3126	4822 050 21003	10kΩ 1% 0.6W	3475	4822 051 30472	4.7kΩ 5% 0.062W	3652	4822 051 20479	47Ω 5% 0.1W
3127	4822 116 52289	5.6kΩ 5% 0.5W	3476	4822 116 83874	220kΩ 5% 0.5W	3653	4822 051 20223	22kΩ 5% 0.1W
3130	4822 051 30479	47Ω 5% 0.062W	3478	4822 116 52175	100Ω 5% 0.5W	3655	4822 051 30123	12kΩ 5% 0.062W
3131	4822 051 20471	470Ω 5% 0.1W	3479	4822 052 10478	4.7Ω 5% 0.33W	3656	4822 117 11817	1.2kΩ 1% 0.062W
3132	4822 051 20479	47Ω 5% 0.1W	3480	4822 052 10478	4.7Ω 5% 0.33W	3657	4822 051 30223	22kΩ 5% 0.062W
3133	4822 117 12925	47kΩ 1% 0.063W 0603	3480	4822 052 10688	6.8Ω 5% 0.33W	3658	4822 051 30223	22kΩ 5% 0.062W
3134	4822 051 30102	1kΩ 5% 0.062W	3481	2322 750 61001	100Ω 5% 1206	3659	4822 051 30222	2.2kΩ 5% 0.062W
3135	4822 051 30101	100Ω 5% 0.062W	3482	4822 051 30221	220Ω 5% 0.062W	3660	4822 051 30562	5.6kΩ 5% 0.063W 0603
3136	4822 051 30109	10Ω 5% 0.062W	3483	4822 117 12903	1.8kΩ 1% 0.063W 0603	3661	4822 116 52226	560Ω 5% 0.5W
3137	4822 050 24702	4.7kΩ 1% 0.6W	3485	4822 051 30471	470Ω 5% 0.062W	3662	4822 051 30152	1.5kΩ 5% 0.062W
3138	4822 051 20105	1MΩ 5% 0.1W	3486	2322 704 67502	7.5kΩ 1% 0.5W	3681	4822 116 52207	1.2kΩ 5% 0.5W
3140	4822 051 20223	22kΩ 5% 0.1W	3487	5322 117 13056	8.2kΩ 1% 0.063W 0603	3682	4822 117 13632	100kΩ 1% 0.62W 0603
3141	4822 116 52263	2.7kΩ 5% 0.5W	3488	4822 050 21005	1MΩ 1% 0.6W	3683	4822 051 30103	10kΩ 5% 0.062W
3142	4822 051 30332	3.3kΩ 5% 0.062W	3489	4822 051 30103	10kΩ 5% 0.062W	3684	4822 051 30682	6.8kΩ 5% 0.062W
3143	4822 051 30101	100Ω 5% 0.062W	3490	4822 051 30332	3.3kΩ 5% 0.062W	3685	4822 051 30273	27kΩ 5% 0.062W
3144	4822 053 10221	220Ω 5% 1W	3491	4822 117 12925	47kΩ 1% 0.063W 0603	3686	4822 051 30563	56kΩ 5% 0.062W
3150	4822 117 11373	100Ω 1% 0805	3492	4822 116 52175	100Ω 5% 0.5W	3687	4822 116 52207	1.2kΩ 5% 0.5W
3151	4822 051 30109	10Ω 5% 0.062W	3493	4822 050 21504	150kΩ 1% 0.6W	3688	4822 051 20684	680kΩ 5% 0.1W
3152	4822 051 30102	1kΩ 5% 0.062W	3495	4822 050 21503	15kΩ 1% 0.6W	3690	4822 051 30109	10Ω 5% 0.062W
3153	4822 051 20472	4.7kΩ 5% 0.1W	3496	4822 051 30272	2.7kΩ 5% 0.062W	3701	4822 051 30103	10kΩ 5% 0.062W
3155	4822 051 30101	100Ω 5% 0.062W	3497	4822 051 30333	33kΩ 5% 0.062W	3701	4822 117 12925	47kΩ 1% 0.063W 0603
3156	5322 117 13017	100Ω 1% 0.063W 0603	3501	2120 103 90057	100Ω 20% 0.5W	3702	4822 051 30223	22kΩ 5% 0.062W
3157	4822 051 30103	10kΩ 5% 0.062W	3504	4822 051 30222	2.2kΩ 5% 0.062W	3703	4822 051 30103	10kΩ 5% 0.062W
3158	2322 704 61801	180Ω 1% 0603	3505	4822 116 52257	22kΩ 5% 0.5W	3703	4822 117 12925	47kΩ 1% 0.063W 0603
3158	5322 117 13061	180Ω 1% 0.063W 0603	3506	4822 051 30562	5.6kΩ 5% 0.063W 0603	3704	4822 051 30223	22kΩ 5% 0.062W
3159	4822 051 30103	10kΩ 5% 0.062W	3507	4822 050 21604	160kΩ 1% 0.6W	3707	4822 051 30103	10kΩ 5% 0.062W
3160	4822 051 30102	1kΩ 5% 0.062W	3508	4822 116 52182	15Ω 5% 0.5W	3708	4822 117 12925	47kΩ 1% 0.063W 0603
3161	4822 052 10101	100Ω 5% 0.33W	3509	2122 550 00158	VDR 1mA 612V	3710	4822 117 12925	47kΩ 1% 0.063W 0603
3164	4822 117 13632	100kΩ 1% 0.62W 0603	3510	5322 117 12487	1kΩ 1% 0.12W	3711	4822 051 30103	10kΩ 5% 0.062W
3165	2322 704 61801	180Ω 1% 0603	3511	4822 053 11222	2.2kΩ 5% 2W	3713	2322 702 81828	8.2Ω 5% 0.1W 0603
3165	5322 117 13061	180Ω 1% 0.063W 0603	3512	4822 117 12891	220kΩ 1% 0.063W 0603	3714	2322 702 81828	8.2Ω 5% 0.1W 0603
3168	4822 051 20472	4.7kΩ 5% 0.1W	3513	4822 116 52272	330kΩ 5% 0.5W	3716	4822 050 21003	10kΩ 1% 0.6W
3171	4822 116 52297	68kΩ 5% 0.5W	3514	2322 193 53397	0.39Ω 5% 0.6W	3719	4822 051 30103	10kΩ 5% 0.062W
3172	4822 116 52297	68kΩ 5% 0.5W	3515	2322 193 53397	0.39Ω 5% 0.6W	3720	4822 052 10108	1Ω 5% 0.33W
3200	4822 051 20229	22Ω 5% 0.1W	3517	4822 117 10834	47kΩ 1% 0.1W	3721	4822 052 10108	1Ω 5% 0.33W
3201	4822 051 20229	22Ω 5% 0.1W	3518	4822 116 52234	100kΩ 5% 0.5W	3725	4822 116 52251	18kΩ 5% 0.5W
3250	4822 117 10833	10kΩ 1% 0.1W	3519	4822 051 30102	1kΩ 5% 0.062W	3726	4822 050 21003	10kΩ 1% 0.6W
3261	4822 117 11373	100Ω 1% 0805	3520	4822 053 11333	33kΩ 5% 2W	3904	4822 052 10688	6.8Ω 5% 0.33W
3262	4822 117 11373	100Ω 1% 0805	3521	4822 053 21155	1.5Ω 5% 0.5W	3905	4822 051 30101	100Ω 5% 0.062W
3400	4822 052 11108	1Ω 5% 0.5W	3522	4822 117 11507	6.8kΩ 1% 0.1W	3912	4822 051 30008	Jumper 0603
3401	4822 053 12279	27R00 5% 3W	3523	4822 051 20105	1MΩ 5% 0.1W	3928	4822 051 30101	100Ω 5% 0.062W
3402	4822 053 10121	120Ω 5% 1W	3524	4822 051 30333	33kΩ 5% 0.062W	3929	4822 051 30103	10kΩ 5% 0.062W
3403	4822 116 52175	100Ω 5% 0.5W	3525	4822 051 30479	47Ω 5% 0.062W	3930	4822 051 20561	560Ω 5% 0.1W
3404	4822 051 30471	470Ω 5% 0.062W	3527	4822 117 11951	2kΩ 1% 0.1W	3938	4822 117 11373	100Ω 1% 0805
3406	4822 117 11373	100Ω 1% 0805	3528	4822 051 30103	10kΩ 5% 0.062W	3939	4822 051 30103	10kΩ 5% 0.062W
3407	4822 051 30103	10kΩ 5% 0.062W	3529	4822 051 30472	47kΩ 5% 0.062W	3940	4822 051 20561	560Ω 5% 0.1W
3409	4822 050 11002	1kΩ 1% 0.4W	3530	4822 051 30102	1kΩ 5% 0.062W	3941	4822 052 10688	6.8Ω 5% 0.33W
3410	4822 051 20479	47Ω 5% 0.1W	3531	4822 117 11507	6.8kΩ 1% 0.1W	3959	4822 117 10353	150Ω 1% 0.1W
3411	2122 101 02171	39Ω 5% 0.5W	3532	4822 117 12925	47kΩ 1% 0.063W 0603	3960	4822 117 10353	150Ω 1% 0.1W
3412	4822 117 11817	1.2kΩ 1% 0.062W	3533	4822 116 52182	15Ω 5% 0.5W	3961	4822 117 10353	150Ω 1% 0.1W
3414	4822 051 30331	330Ω 5% 0.062W	3534	4822 117 12925	47kΩ 1% 0.063W 0603	3962	4822 117 10353	150Ω 1% 0.1W
3415	3198 012 31590	15Ω 5% 3W	3535	4822 051 30479	47Ω 5% 0.062W	3965	4822 117 10353	150Ω 1% 0.1W
3417	4822 116 52176	10Ω 5% 0.5W	3536	4822 051 30152	1.5kΩ 5% 0.062W	3966	4822 117 10353	150Ω 1% 0.1W
3418	4822 050 25603	56kΩ 1% 0.6W	3537	4822 052 10102	1kΩ 5% 0.33W	3967	4822 116 52201	75Ω 5% 0.5W
3419	4822 051 30474	470kΩ 5% 0.062W	3540	4822 050 23303	33kΩ 1% 0.6W	3968	4822 116 52201	75Ω 5% 0.5W
3420	4822 051 30332	3.3kΩ 5% 0.062W	3541	4822 116 52186	22Ω 5% 0.5W	3969	4822 051 20008	Jumper 0805
3421	4822 051 30474	470kΩ 5% 0.062W	3543	4822 050 24708	4.7Ω 1% 0.6W	3969	4822 117 11373	100Ω 1% 0805
3422	4822 051 30332	3.3kΩ 5% 0.062W	3547	4822 051 30008	Jumper 0603	3970	4822 051 20008	Jumper 0805
3423	4822 053 10688	6.8Ω 5% 1W	3549	4822 051 30393	39kΩ 5% 0.062W	3970	4822 117 11373	100Ω 1% 0805
3425	4822 116 52176	10Ω 5% 0.5W	3550	2122 663 00018	PTC 4.7Ω 20%	3971	4822 116 52201	75Ω 5% 0.5W
3426	4822 116 52176	10Ω 5% 0.5W	3552	4822 051 30222	2.2kΩ 5% 0.062W	3972	4822 116 52201	75Ω 5% 0.5W
3427	4822 051 30683	68kΩ 5% 0.062W	3553	4822 051 30103	10kΩ 5% 0.062W	3973	4822 116 52201	75Ω 5% 0.5W
3427	4822 117 13632	100kΩ 1% 0.62W 0603	3610	4822 051 30223	22kΩ 5% 0.062W	3974	4822 116 52201	75Ω 5% 0.5W
3428	4822 051 30684	680kΩ 5% 0.062W	3611	4822 051 30222	2.2kΩ 5% 0.062W	3975	4822 116 52201	75Ω 5% 0.5W
3429	4822 051 30103	10kΩ 5% 0.062W	3620	4822 050 21808	1.8Ω 1% 0.6W	3976	4822 117 11373	100Ω 1% 0805
3429	4822 051 30223	22kΩ 5% 0.062W	3620	4822 116 80176	1Ω 5% 0.5W	3977	4822 051 20008	Jumper 0805
3430	4822 051 30123	12kΩ 5% 0.062W	3621	4822 116 80176	1Ω 5% 0.5W	3977	4822 117 11373	100Ω 1% 0805
3430	4822 051 30223	22kΩ 5% 0.062W	3622	4822 116 81154	2.2Ω 5% 0.5W	3978	4822 051 20008	Jumper 0805
3431	2306 207 03151	150Ω 5% 0.5W	3622	5322 116 53564	3.3Ω 5% 0.5W	3978	4822 117 11373	100Ω 1% 0805
3440	4822 051 30102	1kΩ 5% 0.062W	3623	4822 116 52251	18kΩ 5% 0.5W	3979	4822 116 52201	75Ω 5% 0.5W
3441	4822 051 30223	22kΩ 5% 0.062W	3624	4822 052 10158	1.5Ω 5% 0.33W	3980	4822 051 20008	Jumper 0805
3442	4822 051 30474	470kΩ 5% 0.062W	3625	4822 116 52206	120Ω 5% 0.5W	3980	4822 117 11373	100Ω 1% 0805
3443	4822 051 30684	680kΩ 5% 0.062W	3625	4822 116 52219	330Ω 5% 0.5W	3981	4822 051 10102	1kΩ 2% 0.25W
3447	4822 117 11373	100Ω 1% 0805	3626	4822 116 52175	100Ω 5% 0.5W	3981	4822 117 10833	10kΩ 1% 0.1W
3449	4822 052 10101	100Ω 5% 0.33W	3626	4822 116 52219	330Ω 5% 0.5W	3982	4822 051 20392	3.9kΩ 5% 0.1W
3450	4822 050 21003	10kΩ 1% 0.6W	3627	4822 051 20223	22kΩ 5% 0.1W	3982	4822 051 20393	39kΩ 5% 0.1W
3451	4822 050 21003	10kΩ 1% 0.6W	3630	4822 051 30333	33kΩ 5% 0.062W	3983	4822 116 52175	100Ω 5% 0.5W
3454	4822 051 20108	1Ω 5% 0.1W	3631	4822 051 30222	2.2kΩ 5% 0.062W	3984	4822 051 10102	1kΩ 2% 0.25W
3455	4822 117 12902	8.2kΩ 1% 0.063W 0603	3632	4822 051 30393	39kΩ 5% 0.062W	3984	4822 117 10833	10kΩ 1% 0.1W
3455	5322 117 13056	8.2kΩ 1% 0.063W 0603	3633	4822 051 30563	56kΩ 5% 0.062W	3985	4822 116 52201	75Ω 5% 0.5W
3456	4822 117 12903	1.8kΩ 1% 0.06						

3992	4822 117 10353	150Ω 1% 0.1W
3993	4822 116 83868	150Ω 5% 0.5W
3994	4822 051 10102	1kΩ 2% 0.25W
3994	4822 117 11373	100Ω 1% 0.805
3995	4822 051 10102	1kΩ 2% 0.25W
3995	4822 117 11373	100Ω 1% 0.805
3996	4822 117 10353	150Ω 1% 0.1W
3997	4822 117 10353	150Ω 1% 0.1W
4xxx	4822 051 30008	Jumper 0603
9xxx	4822 051 20008	Jumper 0805
9xxx	4822 051 30008	Jumper 0603

5100	3104 308 20431	Transformer BS25126-03
5101	4822 526 10704	Bead 45Ω at 50MHz
5102	2422 535 94639	10μH 20%
5103	4822 526 10704	Bead 45Ω at 50MHz
5104	4822 157 11411	Bead 83Ω at 100MHz
5105	2422 535 94632	1μH 30%
5106	4822 157 11716	Bead 30Ω at 100MHz
5107	4822 157 11716	Bead 30Ω at 100MHz
5108	4822 526 10704	Bead 45Ω at 50MHz
5110	4822 526 10704	Bead 45Ω at 50MHz
5111	4822 157 11411	Bead 83Ω at 100MHz
5113	4822 157 11411	Bead 83Ω at 100MHz
5130	4822 157 11411	Bead 83Ω at 100MHz
5400	4822 157 11869	33μH 10%
5401	2422 536 00059	12μH 10%
5402	3198 018 21510	150μH 10%
5410	3128 138 39091	Transformer CE165T
5411	4822 157 71097	0.56μH 10%
5421	3104 308 20471	Linearity coil 28"/29"
5421	3104 308 20591	Linearity coil 32"
5422	2422 531 02357	Bridge coil W7132-004Y 29"
5422	4822 146 11137	Bridge coil W7131-003 28"/32"
5423	4822 157 71097	0.56μH 10%
5425	4822 157 11411	Bead 83Ω at 100MHz
5426	4822 157 11411	Bead 83Ω at 100MHz
5430	3104 308 20491	LOT 1392.9014A
5461	4822 157 11411	Bead 83Ω at 100MHz
5463	4822 157 11411	Bead 83Ω at 100MHz
5465	4822 157 11411	Bead 83Ω at 100MHz
5467	4822 157 11411	Bead 83Ω at 100MHz
5469	4822 157 11411	Bead 83Ω at 100MHz
5503	2422 549 44877	Filter 45mH DMF2845H
5505	4822 157 11411	Bead 83Ω at 100MHz
5506	2422 531 02575	Transformer SMT BS30029-01
5506	2422 531 02635	Transformer SMT SS30327-01 B
5507	4822 157 11411	Bead 83Ω at 100MHz
5511	3104 308 20511	Filter mains 40mH
5515	4822 157 11869	33μH 10%
5517	4822 157 11411	Bead 83Ω at 100MHz
5518	4822 526 10704	Bead 45Ω at 50MHz
5519	4822 157 11716	Bead 30Ω at 100MHz
5520	4822 157 11411	Bead 83Ω at 100MHz
5620	4822 157 11771	0.09μH 10%
5621	3104 308 20571	Transf. S13974-03
5901	4822 157 11299	10μH 5%
5902	3198 018 71010	100μF 10%
5903	4822 157 10359	33μH 10%
5904	4822 157 11411	Bead 83Ω at 100MHz

6148	5322 130 31938	BYV27-200
6149	4822 130 11397	BAS316
6200	9340 548 71115	PDZ33B
6202	4822 130 11397	BAS316
6400	4822 130 41601	BYV95A
6402	4822 130 11397	BAS316
6405	4822 130 34383	BZX79-B47
6406	4822 130 11397	BAS316
6407	4822 130 11397	BAS316
6408	4822 130 41601	BYV95A
6421	4822 130 10753	BY359X-1500
6422	4822 130 10218	BY229X-800
6442	4822 130 11522	UDZ15B
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	9340 559 53112	BYW95C-24
6464	9340 559 53112	BYW95C-24
6480	4822 130 31607	RGP10D
6481	4822 130 11522	UDZ15B
6482	4822 130 11397	BAS316
6483	4822 130 80622	BAT54
6493	4822 130 80622	BAT54
6499	4822 130 11551	UDZS10B
6505	4822 130 34281	BZX79-B15
6506	4822 130 80622	BAT54
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 80622	BAT54
6525	3198 010 10640	Bridge cell GBU4K
6530	4822 130 41487	BYV95C
6534	9322 165 72687	DTV1500MFP
6535	4822 130 11572	STPS8H100F
6537	4822 130 11397	BAS316
6538	4822 130 11397	BAS316
6614	4822 130 80622	BAT54
6615	4822 130 11397	BAS316
6616	4822 130 11397	BAS316
6617	4822 130 11397	BAS316
6618	4822 130 11397	BAS316
6619	4822 130 31607	RGP10D
6620	5322 130 31938	BYV27-200
6621	4822 130 31607	RGP10D
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
6901	4822 130 11416	PDZ6.8B
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	9322 160 34687	FQFP3N60
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 194 20687	STP5NK50ZFP
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
7701	9322 166 94682	TDA7495S
7710	5322 130 60159	BC846B
7711	5322 130 60159	BC846B
7901	5322 130 60159	BC846B
7902	5322 130 60159	BC846B
7910	9322 152 53687	LD1086V33
7912	5322 209 86445	LM7805CT

Small Signal Board [B]

Various

1112	2422 549 44369	SAW 38.9MHz K9656L
1113	2422 549 44372	SAW 38.9MHz K3953L
1581	2422 543 01359	Xtal 13.5MHz 12pF NX8045

—||—

2002	2020 552 96507	10μF 10V
2003	2020 552 96507	10μF 10V
2005	2020 552 96618	1nF 10% 50V 0402
2006	2020 552 96618	1nF 10% 50V 0402
2008	2020 552 96618	1nF 10% 50V 0402
2012	3198 017 44740	470nF 10V 0603
2013	3198 035 04710	470pF 50V 0402
2014	3198 035 71040	100nF 10% 16V 0402
2015	3198 035 04710	470pF 50V 0402
2016	3198 017 44740	470nF 10V 0603
2018	3198 035 04710	470pF 50V 0402
2019	3198 017 44740	470nF 10V 0603
2021	3198 035 04710	470pF 50V 0402
2022	3198 017 44740	470nF 10V 0603
2024	3198 035 04710	470pF 50V 0402
2025	3198 017 44740	470nF 10V 0603
2027	3198 035 04710	470pF 50V 0402
2028	3198 017 44740	470nF 10V 0603
2030	2020 552 96618	1nF 10% 50V 0402
2031	2020 552 96618	1nF 10% 50V 0402
2032	2020 552 96618	1nF 10% 50V 0402
2033	2020 552 96618	1nF 10% 50V 0402
2037	2020 552 96507	10μF 10V
2038	2020 552 96507	10μF 10V
2039	2020 552 96507	10μF 10V
2040	2020 552 96507	10μF 10V
2045	3198 030 82280	2.2μF 20% 50V
2046	5322 124 41945	22μF 20% 35V
2047	4822 124 23002	10μF 20% 16V
2048	3198 035 71040	100nF 10% 16V 0402
2049	3198 035 71040	100nF 10% 16V 0402
2050	3198 035 71040	100nF 10% 16V 0402
2051	3198 035 71040	100nF 10% 16V 0402
2060	3198 035 71040	100nF 10% 16V 0402
2062	3198 035 71040	100nF 10% 16V 0402
2063	3198 035 71040	100nF 10% 16V 0402
2065	3198 035 71040	100nF 10% 16V 0402
2066	3198 035 71040	100nF 10% 16V 0402
2067	3198 035 71040	100nF 10% 16V 0402
2068	3198 035 71040	100nF 10% 16V 0402
2071	3198 035 71040	100nF 10% 16V 0402
2072	3198 035 71040	100nF 10% 16V 0402
2073	3198 035 71040	100nF 10% 16V 0402
2078	3198 035 71040	100nF 10% 16V 0402
2079	3198 035 71040	100nF 10% 16V 0402
2081	3198 035 71040	100nF 10% 16V 0402
2082	4822 126 14491	2.2μF -20+80% 10V 0805
2083	3198 035 71040	100nF 10% 16V 0402
2084	3198 035 71040	100nF 10% 16V 0402
2085	3198 035 71040	100nF 10% 16V 0402

2088	4822 126 14491	2.2µF -20+80% 10V 0805	2525	3198 035 71040	100nF 10% 16V 0402	3150	3198 031 01820	1K8 5% 0402
2101	3198 035 71030	10nF 16V 0402	2546	3198 035 71040	100nF 10% 16V 0402	3151	3198 031 01220	1K2 5% 0402
2102	3198 035 71030	10nF 16V 0402	2557	2238 869 15101	100pF 5% 50V 0402	3152	3198 031 01820	1K8 5% 0402
2119	3198 035 71030	10nF 16V 0402	2571	3198 035 71040	100nF 10% 16V 0402	3153	3198 031 01220	1K2 5% 0402
2126	2238 869 15101	100pF 5% 50V 0402	2581	4822 126 14519	22pF 5% 50V 0402	3154	3198 031 04730	47Ω 5% 0402
2127	3198 035 71040	100nF 10% 16V 0402	2582	4822 126 14519	22pF 5% 50V 0402	3155	3198 031 08210	820Ω 5% 0.5W
2128	3198 030 82280	2.2µF 20% 50V	2583	3198 035 71040	100nF 10% 16V 0402	3281	4822 117 13548	1kΩ 5% 0402
2130	3198 035 71030	10nF 16V 0402	2584	3198 035 71040	100nF 10% 16V 0402	3282	4822 117 13548	1kΩ 5% 0402
2134	3198 035 71040	100nF 10% 16V 0402	2600	3198 035 71040	100nF 10% 16V 0402	3283	4822 117 13548	1kΩ 5% 0402
2135	4822 124 23002	10µF 20% 16V	2601	3198 035 71040	100nF 10% 16V 0402	3284	4822 117 13548	1kΩ 5% 0402
2136	4822 124 23002	10µF 20% 16V	2604	3198 035 71040	100nF 10% 16V 0402	3302	3198 031 01220	1K2 5% 0402
2137	4822 124 12095	100µF 20% 16V	2607	3198 035 71040	100nF 10% 16V 0402	3303	3198 031 06820	6.8kΩ 5% 0.01W 0402
2138	3198 035 71040	100nF 10% 16V 0402	2609	3198 035 71040	100nF 10% 16V 0402	3304	4822 117 13597	330Ω 5% 0402 0.01W
2150	3198 035 71040	100nF 10% 16V 0402	2611	3198 035 71040	100nF 10% 16V 0402	3305	4822 117 13548	1kΩ 5% 0402
2151	3198 030 82280	2.2µF 20% 50V	2612	3198 035 71040	100nF 10% 16V 0402	3306	3198 031 03390	33Ω 1% 0402
2152	3198 035 71040	100nF 10% 16V 0402	2615	3198 035 71040	100nF 10% 16V 0402	3307	2322 705 87189	18Ω 5% 0402
2154	4822 124 23002	10µF 20% 16V	2618	3198 035 71040	100nF 10% 16V 0402	3309	4822 051 30331	330Ω 5% 0.062W
2155	3198 035 71040	100nF 10% 16V 0402	2620	3198 035 71040	100nF 10% 16V 0402	3310	3198 031 01220	1K2 5% 0402
2156	3198 035 71040	100nF 10% 16V 0402	2622	3198 035 71040	100nF 10% 16V 0402	3311	3198 031 03390	33Ω 1% 0402
2157	3198 035 71040	100nF 10% 16V 0402	2623	3198 035 71040	100nF 10% 16V 0402	3312	3198 031 01220	1K2 5% 0402
2281	3198 035 71040	100nF 10% 16V 0402	2628	3198 035 71040	100nF 10% 16V 0402	3313	4822 117 13597	330Ω 5% 0402 0.01W
2282	3198 035 71040	100nF 10% 16V 0402	2629	3198 035 71040	100nF 10% 16V 0402	3316	2322 705 87189	18Ω 5% 0402
2284	3198 035 71040	100nF 10% 16V 0402	2630	3198 035 71040	100nF 10% 16V 0402	3318	3198 031 01220	1K2 5% 0402
2285	3198 035 71040	100nF 10% 16V 0402	2633	3198 035 71040	100nF 10% 16V 0402	3319	4822 051 30331	330Ω 5% 0.062W
2300	3198 035 71040	100nF 10% 16V 0402	2634	3198 035 71040	100nF 10% 16V 0402	3320	3198 031 01220	1K2 5% 0402
2305	3198 017 41050	1µF 10V 0603	2638	3198 035 71040	100nF 10% 16V 0402	3321	3198 031 03390	33Ω 1% 0402
2307	2238 869 15101	100pF 5% 50V 0402	2644	5322 124 41945	22µF 20% 35V	3322	3198 031 01220	1K2 5% 0402
2308	2238 869 15101	100pF 5% 50V 0402	2645	4822 124 23002	10µF 20% 16V	3323	4822 117 13597	330Ω 5% 0402 0.01W
2310	4822 124 23002	10µF 20% 16V	2651	2020 021 91679	100µF 20% 6.3V	3325	3198 031 04720	4.7kΩ 5% 0402
2311	3198 035 71030	10nF 16V 0402	2652	2020 552 96507	10µF 10V	3326	4822 117 13543	470Ω 5% 0402
2317	2238 869 15101	100pF 5% 50V 0402	2654	2020 552 96507	10µF 10V	3329	4822 051 30331	330Ω 5% 0.062W
2318	2238 869 15101	100pF 5% 50V 0402	2655	2020 552 96507	10µF 10V	3330	3198 031 01220	1K2 5% 0402
2321	3198 035 71030	10nF 16V 0402	2656	3198 035 71040	100nF 10% 16V 0402	3331	3198 031 03390	33Ω 1% 0402
2324	2238 869 15101	100pF 5% 50V 0402	2657	2238 869 15101	100pF 5% 50V 0402	3332	3198 031 01220	1K2 5% 0402
2325	2238 869 75829	82pF 5% 50V 0402	2659	4822 126 13879	220nF 20% 16V	3333	4822 117 13597	330Ω 5% 0402 0.01W
2327	2238 869 15101	100pF 5% 50V 0402	2730	3198 035 71040	100nF 10% 16V 0402	3334	3198 031 03390	33Ω 1% 0402
2328	2238 869 15101	100pF 5% 50V 0402	2731	3198 035 71040	100nF 10% 16V 0402	3335	3198 031 03390	33Ω 1% 0402
2331	3198 035 71030	10nF 16V 0402	2732	3198 035 71040	100nF 10% 16V 0402	3336	3198 031 03390	33Ω 1% 0402
2341	3198 035 71040	100nF 10% 16V 0402	2733	3198 035 71040	100nF 10% 16V 0402	3337	3198 031 03390	33Ω 1% 0402
2342	3198 035 71040	100nF 10% 16V 0402	2734	3198 035 71040	100nF 10% 16V 0402	3338	2322 705 87189	18Ω 5% 0402
2343	3198 035 71040	100nF 10% 16V 0402	2792	3198 035 71040	100nF 10% 16V 0402	3340	4822 117 13548	1kΩ 5% 0402
2344	3198 035 71040	100nF 10% 16V 0402	2793	3198 035 71040	100nF 10% 16V 0402	3343	4822 117 13606	10kΩ 5% 0.01W 0402
2345	3198 035 71040	100nF 10% 16V 0402	2918	2238 869 15101	100pF 5% 50V 0402	3345	3198 031 06820	6.8kΩ 5% 0.01W 0402
2346	3198 035 71040	100nF 10% 16V 0402	2919	2238 869 15101	100pF 5% 50V 0402	3346	4822 117 13548	1kΩ 5% 0402
2350	4822 124 12095	100µF 20% 16V	2920	2238 869 75829	82pF 5% 50V 0402	3347	4822 117 13601	22kΩ 5% 0402
2351	2238 869 15109	10pF 5% 50V 0402	2932	2238 869 15101	100pF 5% 50V 0402	3348	4822 117 13601	22kΩ 5% 0402
2352	2238 869 15109	10pF 5% 50V 0402	2933	2238 869 15101	100pF 5% 50V 0402	3349	3198 031 04730	47Ω 5% 0402
2358	2238 869 15101	100pF 5% 50V 0402	2935	2238 869 15101	100pF 5% 50V 0402	3350	4822 117 13596	220Ω 5% 0.01W 0402
2359	3198 035 71040	100nF 10% 16V 0402	2936	2238 869 15101	100pF 5% 50V 0402	3351	4822 117 13548	1kΩ 5% 0402
2360	2238 869 15101	100pF 5% 50V 0402	2938	2238 869 15101	100pF 5% 50V 0402	3352	3198 031 04730	47Ω 5% 0402
2361	4822 126 14491	2.2µF -20+80% 10V 0805	2948	2238 869 15189	18pF 5% 50V 0402	3353	4822 117 13606	10kΩ 5% 0.01W 0402
2363	2238 869 15101	100pF 5% 50V 0402	2949	2238 869 15189	18pF 5% 50V 0402	3354	4822 117 13606	10kΩ 5% 0.01W 0402
2364	4822 126 14491	2.2µF -20+80% 10V 0805	2950	2238 869 15101	100pF 5% 50V 0402	3355	4822 117 13601	22kΩ 5% 0402
2365	2238 869 15101	100pF 5% 50V 0402	2951	2238 869 15101	100pF 5% 50V 0402	3356	3198 031 08210	820Ω 5% 0.5W
2366	4822 126 14491	2.2µF -20+80% 10V 0805	2962	2238 869 15101	100pF 5% 50V 0402	3357	4822 117 13601	22kΩ 5% 0402
2371	2020 552 96618	1nF 10% 50V 0402	2967	2020 552 96618	1nF 10% 50V 0402	3358	5322 117 11726	10Ω 5%
2372	2020 552 96618	1nF 10% 50V 0402	2968	2020 552 96618	1nF 10% 50V 0402	3361	4822 117 13605	Jumper 0402
2377	2020 552 96623	2.2nF 10% 50V 0402	2975	2020 552 96793	4.7nF 10% 50V 0402	3364	2322 705 70124	120kΩ 5% 0402
2379	2020 552 96623	2.2nF 10% 50V 0402	2976	2020 552 96793	4.7nF 10% 50V 0402	3365	4822 117 13605	Jumper 0402
2380	3198 035 04710	100pF 50V 0402	2977	2238 869 15101	100pF 5% 50V 0402	3366	4822 117 13602	2.2kΩ 5% 0.01W 0402
2384	2020 552 96618	1nF 10% 50V 0402	2978	2238 869 15101	100pF 5% 50V 0402	3367	4822 117 13548	1kΩ 5% 0402
2386	2238 869 15109	10pF 5% 50V 0402	2979	2238 869 15101	100pF 5% 50V 0402	3368	3198 031 06830	68kΩ 5% 0.01W 0402
2395	3198 035 71030	10nF 16V 0402				3371	4822 117 13548	1kΩ 5% 0402
2397	3198 035 71040	100nF 10% 16V 0402				3372	2322 705 70155	1.5MΩ 5% 0402
2432	2020 552 96618	1nF 10% 50V 0402				3373	4822 117 13606	10kΩ 5% 0.01W 0402
2433	2020 552 96618	1nF 10% 50V 0402				3374	3198 031 02720	2.7kΩ 5% 0.01W 0402
2434	3198 017 44740	470nF 10V 0603				3375	3198 031 02720	2.7kΩ 5% 0.01W 0402
2435	3198 017 44740	470nF 10V 0603				3376	4822 117 13606	10kΩ 5% 0.01W 0402
2438	3198 017 44740	470nF 10V 0603				3377	3198 031 02250	2.2MΩ 5% 0402
2439	3198 017 44740	470nF 10V 0603				3378	3198 031 03340	330kΩ 5% 0402
2440	2020 552 96618	1nF 10% 50V 0402				3380	4822 117 13606	10kΩ 5% 0.01W 0402
2441	2020 552 96618	1nF 10% 50V 0402				3382	4822 117 13548	1kΩ 5% 0402
2442	2020 552 96618	1nF 10% 50V 0402				3384	4822 117 13606	10kΩ 5% 0.01W 0402
2443	2020 552 96618	1nF 10% 50V 0402				3385	3198 031 04730	47Ω 5% 0402
2444	2020 552 96618	1nF 10% 50V 0402				3386	3198 031 02730	27kΩ 5% 0402
2445	2020 552 96618	1nF 10% 50V 0402				3390	4822 117 13548	1kΩ 5% 0402
2447	4822 124 12095	100µF 20% 16V				3391	3198 031 03390	33Ω 5% 0402
2450	3198 035 71030	10nF 16V 0402				3392	3198 031 04730	47Ω 5% 0402
2452	3198 035 71030	10nF 16V 0402				3393	3198 031 03320	3.3kΩ 5% 0402
2454	4822 126 14491	2.2µF -20+80% 10V 0805				3395	4822 117 13606	10kΩ 5% 0.01W 0402
2457	4822 126 14491	2.2µF -20+80% 10V 0805				3396	4822 117 13543	470Ω 5% 0402
2461	3198 017 44740	470nF 10V 0603				3397	4822 117 13543	470Ω 5% 0402
2462	3198 017 44740	470nF 10V 0603				3398	4822 117 13545	100Ω 5% 0402
2480	3198 017 44740	470nF 10V 0603				3445	3198 031 04730	47Ω 5% 0402
2481	3198 017 44740	470nF 10V 0603				3446	3198 031 05630	56kΩ 5% 0402
2483	2020 552 96618	1nF 10% 50V 0402				3447	3198 031 05630	56kΩ 5% 0402
2484	4822 124 23002	10µF 20% 16V				3448	3198 031 01220	1K2 5% 0402
2485	2020 552 96618	1nF 10% 50V 0402				3449	3198 031 01520	1.2kΩ 5% 0.01W 0402
2486	3198 035 71040	100nF						

3457	3198 031 01520	1.2kΩ 5% 0.01W 0402
3480	3198 031 02720	2.7kΩ 5% 0.01W 0402
3481	3198 031 02720	2.7kΩ 5% 0.01W 0402
3482	3198 031 04720	4.7kΩ 5% 0402
3483	3198 031 08220	8.2kΩ 5% 0.5W
3484	3198 031 04720	4.7kΩ 5% 0402
3485	3198 031 08220	8.2kΩ 5% 0.5W
3501	4822 117 13606	10kΩ 5% 0.01W 0402
3502	4822 117 13606	10kΩ 5% 0.01W 0402
3503	4822 117 13606	10kΩ 5% 0.01W 0402
3504	4822 117 13606	10kΩ 5% 0.01W 0402
3507	4822 117 13606	10kΩ 5% 0.01W 0402
3508	3198 031 04720	4.7kΩ 5% 0402
3509	3198 031 02720	2.7kΩ 5% 0.01W 0402
3510	3198 031 02720	2.7kΩ 5% 0.01W 0402
3511	4822 117 13546	47Ω 5% 0402
3512	4822 117 13546	47Ω 5% 0402
3513	3198 031 02720	2.7kΩ 5% 0.01W 0402
3515	3198 031 02720	2.7kΩ 5% 0.01W 0402
3518	4822 117 13601	22kΩ 5% 0402
3523	4822 117 13606	10kΩ 5% 0.01W 0402
3530	4822 117 11297	100kΩ 5% 0.1W
3547	3198 031 03390	33Ω 1% 0402
3550	3198 031 04720	4.7kΩ 5% 0402
3557	4822 117 13546	47Ω 5% 0402
3563	4822 117 13606	10kΩ 5% 0.01W 0402
3564	4822 117 13606	10kΩ 5% 0.01W 0402
3565	4822 117 13606	10kΩ 5% 0.01W 0402
3570	4822 117 13602	2.2kΩ 5% 0.01W 0402
3571	3198 031 02720	2.7kΩ 5% 0.01W 0402
3572	4822 117 13606	10kΩ 5% 0.01W 0402
3581	4822 117 13545	100Ω 1% 0402
3582	4822 117 13606	10kΩ 5% 0.01W 0402
3583	3198 031 01830	18kΩ 5% 0.01W 0402
3586	4822 117 13601	22kΩ 5% 0402
3590	4822 117 13548	1kΩ 5% 0402
3651	5322 117 13036	1.2kΩ 1% 0.063W 0603
3652	5322 117 13052	2.7kΩ 1% 0.063W 0603
3737	3198 031 03390	33Ω 1% 0402
3904	4822 117 13605	Jumper 0402
3909	4822 117 13545	100Ω 1% 0402
3911	4822 117 13545	100Ω 1% 0402
3918	4822 117 13545	100Ω 1% 0402
3919	4822 117 13545	100Ω 1% 0402
3928	4822 117 13545	100Ω 1% 0402
3929	4822 117 13545	100Ω 1% 0402
3936	4822 117 13545	100Ω 1% 0402
3938	4822 117 13545	100Ω 1% 0402
3950	4822 117 13545	100Ω 1% 0402
3951	4822 117 13545	100Ω 1% 0402
3962	4822 117 13545	100Ω 1% 0402
3963	4822 117 13545	100Ω 1% 0402
3964	4822 117 13545	100Ω 1% 0402
3975	4822 117 13545	100Ω 1% 0402
3976	4822 117 13545	100Ω 1% 0402
3977	4822 117 13545	100Ω 1% 0402
3978	4822 117 13545	100Ω 1% 0402
3979	4822 117 13545	100Ω 1% 0402
3980	4822 117 13545	100Ω 1% 0402
4xxx	4822 117 13605	Jumper 0402

5600	4822 157 11716	Bead 30Ω at 100MHz
5601	2422 549 44197	Bead 220Ω at 100MHz
5651	2422 535 94134	10μH 20% 0805
5654	4822 157 11258	1μH 20% NLC322522T
5659	4822 157 71334	0.68μH
5730	2422 549 44197	Bead 220Ω at 100MHz
5731	2422 549 44197	Bead 220Ω at 100MHz
5792	2422 549 44197	Bead 220Ω at 100MHz



6101	4822 130 11525	1SS356
6301	4822 130 11397	BAS316
6327	9322 102 64685	UD2.7B
6341	4822 130 11397	BAS316
6353	5322 130 34337	BAV99
6365	5322 130 34337	BAV99
6367	9340 548 67115	PDZ22B
6368	4822 130 11397	BAS316
6381	5322 130 34337	BAV99
6382	4822 130 11594	BZX284-C47
6384	9340 548 67115	PDZ22B
6385	4822 130 11397	BAS316
6397	9340 548 69115	PDZ27B
6398	4822 130 11397	BAS316
6480	9340 548 61115	PDZ12B
6481	9340 548 61115	PDZ12B
6651	9322 128 70685	SMSS14



7060	9340 425 30115	BC847BPN
7062	4822 130 60373	BC856B
7063	4822 130 60373	BC856B
7100	9352 712 54557	PNX3000HL/N1
7101	3198 010 42310	BC847BW
7150	9340 425 20115	BC847BS
7300	9352 735 54557	PNX3002E/N302
7301	4822 130 60373	BC856B
7302	4822 130 60373	BC856B
7303	4822 130 60373	BC856B
7304	3198 010 42310	BC847BW
7310	9340 425 30115	BC847BPN
7320	9340 425 30115	BC847BPN
7330	9340 425 30115	BC847BPN
7346	4822 130 60373	BC856B
7356	4822 130 60373	BC856B
7365	5322 130 60159	BC846B
7382	4822 130 60373	BC856B
7383	9340 425 30115	BC847BPN
7393	3198 010 42310	BC847BW
7432	9340 425 30115	BC847BPN
7433	9340 425 30115	BC847BPN
7480	4822 209 33165	TDA1308T/N1
7525	9322 130 41668	M24C64-WMN6
7581	9352 691 56115	NE56610-45GW
7650	9322 170 61668	CS51033YDR8
7651	9322 170 87668	STS5PF30L
7730	9322 180 88668	K4S641632F-TC75
7790	9322 199 76668	M58LW032C90N1

Side I/O Panel [D]

Various

0240	2422 025 12485	Connector 11p m
0241	4822 267 10734	Connector 5p m
0242	4822 267 10734	Connector 5p m
1254	4822 267 31014	Socket headphone
1255	4822 265 11606	Connector 3p
1256	2422 026 04926	Socket SVHS 4p f



2286	4822 122 33642	150pF 5% 50V
2288	4822 122 33642	150pF 5% 50V
2292	5322 122 32311	470pF 10% 100V
2294	5322 122 32311	470pF 10% 100V
2296	4822 122 30103	22nF 80% 63V
2297	4822 122 30103	22nF 80% 63V



3285	4822 116 52201	75Ω 5% 0.5W
3286	4822 116 52176	10Ω 5% 0.5W
3287	4822 116 52201	75Ω 5% 0.5W
3288	4822 116 52176	10Ω 5% 0.5W
3289	4822 116 52249	1.8kΩ 5% 0.5W
3291	4822 050 11002	1kΩ 1% 0.4W
3292	4822 117 10834	47kΩ 1% 0.1W

3293	4822 050 11002	1kΩ 1% 0.4W
3294	4822 117 10834	47kΩ 1% 0.1W
3295	4822 116 52276	3.9kΩ 5% 0.5W
3296	4822 117 10833	10kΩ 1% 0.1W
3297	4822 117 10833	10kΩ 1% 0.1W
4xxx	4822 051 20008	Jumper 0805



6291	9340 548 61115	PDZ12B
6292	9340 548 61115	PDZ12B
6293	9340 548 61115	PDZ12B
6294	9340 548 61115	PDZ12B
6296	9340 548 61115	PDZ12B
6297	9340 548 61115	PDZ12B

Top Control Panel [E]

Various

0135	3104 311 04671	Cable 3p/1200/3p
0215	2422 025 16601	Connector 3p m
1091	4822 276 13775	Switch
1092	4822 276 13775	Switch
1093	4822 276 13775	Switch
1094	4822 276 13775	Switch



2010	4822 122 33177	10nF 20% 50V
------	----------------	--------------



3088	4822 051 30008	Jumper 0603
3089	4822 051 30008	Jumper 0603
3091	4822 051 30561	560Ω 5% 0.062W
3092	4822 051 30391	390Ω 5% 0.062W
3093	4822 051 30561	560Ω 5% 0.062W
3094	4822 051 30271	270Ω 5% 0.062W
3095	4822 051 30332	3.3kΩ 5% 0.062W
3096	4822 051 30152	1.5kΩ 5% 0.062W
4092	4822 051 30008	Jumper 0603



6092	4822 130 10654	BAT254
------	----------------	--------

CRT Panel [F]

Various

0032	4822 492 70788	IC clamp
1298	2422 500 80063	Connector CRT 10p f
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
8483	3104 311 03111	Cable 3p/340/3p ferrite



2300	4822 124 40764	22μF 100 V
2301	4822 124 40196	220μF 20% 16V
2304	4822 121 41856	22nF 5% 250V
2306	2238 586 59812	100nF 20-80% 50V 0603
2307	4822 121 41856	22nF 5% 250V
2309	3198 017 42230	22nF 50V
2313	4822 124 12373	47μF 20% 250V
2315	5322 126 11583	10nF 10% 50V 0603
2316	4822 121 40518	10nF 10% 250V
2318	5322 122 32654	22nF 10% 63V
2319	4822 122 30043	10nF 80% 63V
2320	2238 586 59812	100nF 20-80% 50V 0603
2324	5322 121 44356	4.7nF 5% 2kV
2325	2238 586 59812	100nF 20-80% 50V 0603
2330	4822 126 13879	220nF 20% 16V
2338	2238 786 19856	330nF 16V 0603
2409	4822 051 30008	Jumper 0603
2410	3198 017 44740	470nF 10V 0603
2411	4822 126 14585	100nF 10% 50V
2420	4822 051 30008	Jumper 0603



3300	4822 052 10109	10Ω 5% 0.33W
3301	4822 053 12103	10kΩ 5% 3W
3302	4822 051 30681	680Ω 5% 0.062W

3303	4822 051 30682	6.8kΩ 5% 0.062W
3304	4822 051 10102	1kΩ 2% 0.25W
3306	4822 117 13608	4.7Ω 5% 0.603 0.62W
3307	4822 051 30109	10Ω 5% 0.062W
3308	4822 051 30563	56kΩ 5% 0.062W
3310	4822 051 10102	1kΩ 2% 0.25W
3311	4822 051 30181	180Ω 5% 0.062W
3312	4822 051 30222	2.2kΩ 5% 0.062W
3316	4822 051 30563	56kΩ 5% 0.062W
3318	4822 117 12971	15Ω 5% 0.62W 0.603
3319	4822 051 30102	1kΩ 5% 0.062W
3323	4822 050 24708	4.7Ω 1% 0.6W
3324	4822 051 30221	220Ω 5% 0.062W
3329	4822 050 24708	4.7Ω 1% 0.6W
3334	4822 050 11002	1kΩ 1% 0.4W
3335	4822 051 30271	270Ω 5% 0.062W
3336	4822 051 30271	270Ω 5% 0.062W
3337	4822 051 30271	270Ω 5% 0.062W
3338	3198 013 01020	1kΩ 2% 0.5W
3339	3198 013 01020	1kΩ 2% 0.5W
3340	3198 013 01020	1kΩ 2% 0.5W
3341	2306 207 03151	150Ω 5% 0.5W
3342	4822 116 83883	470Ω 5% 0.5W
3345	4822 116 52191	33Ω 5% 0.5W
3347	3198 013 01520	1.5kΩ 2% 0.5W
3349	3198 013 01020	1kΩ 2% 0.5W
3350	4822 116 83883	470Ω 5% 0.5W
3351	4822 116 83883	470Ω 5% 0.5W
3352	4822 116 83883	470Ω 5% 0.5W
3354	4822 051 30222	2.2kΩ 5% 0.062W
3355	4822 117 13608	4.7Ω 5% 0.603 0.62W
3356	4822 051 10102	1kΩ 2% 0.25W
3357	4822 117 13608	4.7Ω 5% 0.603 0.62W
3370	4822 117 13016	VDR 1mA/50V
3371	4822 051 30472	4.7kΩ 5% 0.062W
3401	4822 116 52175	100Ω 5% 0.5W
3403	4822 052 11228	2R20 5% 0.5W
3404	4822 052 11228	2R20 5% 0.5W
3410	4822 051 30103	10kΩ 5% 0.062W
3411	4822 051 30103	10kΩ 5% 0.062W
3412	2322 750 61509	15Ω 5% 1206 fusible
3413	4822 051 30181	180Ω 5% 0.062W
3414	4822 051 30109	10Ω 5% 0.062W
3417	4822 051 30109	10Ω 5% 0.062W
3418	4822 051 30181	180Ω 5% 0.062W
3420	4822 051 30008	Jumper 0603
3427	4822 051 30008	Jumper 0603
3999	4822 051 30152	1.5kΩ 5% 0.062W
9402	4822 051 20008	Jumper 0805
9405	4822 051 30008	Jumper 0603

5300	3104 308 20571	Transf. S13974-03
5400	4822 157 11869	33μH 10%
5401	4822 157 71334	0.68μH



6300	4822 130 83757	BAS216
6301	4822 051 20008	Jumper 0805
6305	9340 553 52115	BAS321
6306	9340 553 52115	BAS321
6307	9340 553 52115	BAS321
6310	4822 130 11397	BAS316
6311	4822 130 11397	BAS316
6312	4822 130 11397	BAS316
6313	4822 130 11397	BAS316
6314	4822 130 11397	BAS316



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	TDA6108
7308	5322 130 60159	BC846B

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
8317	3104 311 01421	Cable 2p3/220/2p3 Wh



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



5430	3128 138 38911	DC-shift coil CU15
------	----------------	--------------------



6432	9340 317 00133	BYD33V
6433	9340 317 00133	BYD33V

DAF + 2nd order [I]

Various

0034	3104 304 23041	DAF bracket EMGS
1417	4822 265 20723	Connector 2p m
1418	2422 025 16374	Connector 2p m
1419	4822 265 20723	Connector 2p m
1497	4822 267 10973	Connector 1p m
8418	3104 311 01951	Cable 2p3/560/2p4 Bk



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 S21975-03
5801	2422 531 02435	Transformer C948-02
5801	8228 001 34391	Driver Transformer CU15

Front Interface Panel [J]

Various

0157	3104 311 02421	Cable 5p/480/5p
0177	3104 311 03011	Cable 2p/340/2p Bk
0201	2422 025 16268	Connector 2p m
0202	2422 025 16268	Connector 2p m
0203	2422 025 06353	Connector 5p m
1910	9322 127 54667	TSOP1836UH1
1951	2422 128 02972	Mains switch



2930	4822 124 41584	100μF 20% 10V
------	----------------	---------------



3957	4822 053 21335	3.3MΩ 5% 0.5W
3966	4822 053 21335	3.3MΩ 5% 0.5W
3978	4822 051 30008	Jumper 0603
3981	4822 051 30681	680Ω 5% 0.062W
3982	4822 116 52219	330Ω 5% 0.5W
4903	4822 051 30008	Jumper 0603



6901	9322 050 99682	LTL-10224WHCR
------	----------------	---------------

11. Revision List

First release

Product Survey

Remarks:

Each year 4 Product Surveys are published. From Product Survey 2004-1 onwards the contents of the second, the third and the fourth issue is an updating of the previous one; so e.g. Product Survey 2004-2 replaces 2004-1, Product Survey 2004-3 replaces Product Survey's 2004-1 and 2004-2 and the year book Product Survey 2004-4 replaces the Product Survey's 2004-1, 2004-2 and 2004-3.

Contents

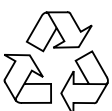
Page

Publication Survey	PS04-4 2
Remote Control Survey	PS04-4 5
Tuner Survey	PS04-4 5
CRT Survey	PS04-4 5
TFT/PDP Survey	PS04-4 6
Software Survey	PS04-4 7
Model Number Survey	PS04-4 27
Stylings with Parts List	PS04-4 33

©Copyright 2005 Philips Consumer Electronics Eindhoven, The Netherlands. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, or otherwise without the prior permission of Philips.

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

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



Publication Survey

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM A02E AA	GB	3122 785 13950

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM A02U AA	GB	3122 785 13980

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM A10E BB (iDTV / IBO+, MHEG)	GB	3122 785 13940

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM DPTV320 / DPTV325	GB	3122 785 13060
SM DPTV355	GB	3122 785 14410

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM DPTV465 AA (regio AP)	GB	3122 785 15001

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM DPTV475 AA (regio AP)	GB	3122 785 15010

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM EM1.1A AA	GB	3122 785 13871

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM EM1.1U AA	GB	3122 785 13850

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM EM1.2A AA	GB	3122 785 13880

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM EM1.2U AA	GB	3122 785 13860

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM EM2E AA	GB	3122 785 10310
SM EM2E AA	NL	3122 785 10320
SM EM2E AA	D	3122 785 10330
SM EM2E AA	F	3122 785 10340
SM EM2E AA	I	3122 785 10350
SM EM2E AA	E	3122 785 10360

SERVICE INFORMATION	LANGUAGE	CODE NUMBER
SI EM2E AA 00.01	ALL	3122 785 40190
SI EM2E AA 00.02	ALL	3122 785 40290
SI EM2E AA 01.01	ALL	3122 785 40310
SI EM2E AA 02.01	ALL	3122 785 40590
SI EM2E AA 02.02	GB/ALL	3122 785 40640

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM EM3E AA	GB	3122 785 11360
SM EM3E AA	D	3122 785 11370
SM EM3E AA	F	3122 785 11380
SM EM3E AA	I	3122 785 11390
SM EM3E AA	E	3122 785 11400

SERVICE INFORMATION	LANGUAGE	CODE NUMBER
SI EM3E AA 02.01	ALL	3122 785 40600

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM EM5.1E AA	GB	3122 785 13420

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM EM5.2E AA	GB	3122 785 14590

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM EM5.3A P/M AA	GB	3122 785 14610

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM EM5.3E AA	GB	3122 785 14600

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM EM5A NTSC AA	GB	3122 785 12620
SM EM5A P/M AA	GB	3122 785 12611

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM EM5E AA	D	3122 785 12571
SM EM5E AA	F	3122 785 12581
SM EM5E AA	GB	3122 785 12561

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM EM5E-DVD AA Supplement	GB	3122 785 12890
SM EM5E-DVD AA Supplement	D	3122 785 12900
SM EM5E-DVD AA Supplement	F	3122 785 12910

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM EM5L AA	GB	3122 785 13260

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM EM6E AA	GB	3122 785 13070
SM EM6E AA (update + HDD module)	GB	3122 785 13071
SM EM6E AB (previously EM6E-Tech AA)	GB	3122 785 13100

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM EM8E AA	GB	3122 785 14780

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM F21RE AA	GB	3122 785 11410
SM F21RE AA	I	3122 785 11440

SERVICE INFORMATION	LANGUAGE	CODE NUMBER
SI F21RE AA 02.01	GB,D,F	3122 785 40720

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM F21RE AB (EU and AP version)	GB	3122 785 13130

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM F21RU AA	GB	3122 785 12630
SM F21RU AB	GB	3122 785 13160

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM F22RE AA (EU and AP ver Sion)	GB	3122 785 13171

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM F22RU AA	GB	3122 785 13200

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM FM23 AA	GB	3122 785 11300
SM FM23 AA	I	3122 785 11330

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM FM23 AB	GB	3122 785 12790

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM FM24 AA	GB	3122 785 12770
SM FM24 AA	I	3122 785 12780

SERVICE INFORMATION	LANGUAGE	CODE NUMBER
SI FM24 AA 02.01	GB	3122 785 40680
SI FM24 AA 02.01	GB	3122 785 40681

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM FM242 AA	GB	3122 785 13400
SM FM242 AB	GB	3122 785 14130

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM FM33 AA	GB	3122 785 13891

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM FTL13E AA	GB	3122 785 13450
SM FTL13E AA (update not release to regions)	GB	3122 785 13451
SM FTL13E AA (update + ITV added)	GB	3122 785 13452
SM FTL13E AA & FTL13E AB (update + AB added)	GB	3122 785 13453

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM FTL13U AA	GB	3122 785 13480
SM FTL13U AA & FTL13U AB (update + AB added)	GB	3122 785 13481

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM FTL2.1A AA & FTL2.2A AA	GB	3122 785 14640
SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM FTL2.1E AA	GB	3122 785 14620

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM FTL2.1U AA & FTL2.2U AA	GB	3122 785 14632

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM FTL2.2 ^E AA	GB	3122 785 15240

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM FTL3.1E AA	GB	3122 785 14700

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM FTP1.1E AA	GB	3122 785 14370

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM FTP1.1E AA	GB	3122 785 14370

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM FTP1.1U AA	GB	3122 785 14381

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM FTP2.2A AA	GB	3122 785 14680

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM FTP2.2E AA	GB	3122 785 14650

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM FTP2.2L AA	GB	3122 785 15231

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM FTP2.2U AA	GB	3122 785 14662

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM L01.1A AA (Lage Screen)	GB	3122 785 11121

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM L01.1A AB	GB	3122 785 12730

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM L01.1A AC	GB	3122 785 13210

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM L01.1E AA (Large Screen)	GB	3122 785 11111
SM L01.1E AA (Lage Screen)	D	3122 785 11700
SM L01.1E AA (Lage Screen)	F	3122 785 11710
SM L01.1E AA (Lage Screen)	I	3122 785 11720
SM L01.1E AA (Lage Screen)	E	3122 785 11730

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM L01.1E AB (DVD Supplement)	GB	3122 785 12830
SM L01.1E AB (DVD Supplement)	D	3122 785 12840
SM L01.1E AB (DVD Supplement)	F	3122 785 12850

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM L01.1E AB	GB	3122 785 12860
SM L01.1E AB	D	3122 785 12870
SM L01.1E AB	F	3122 785 12880

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM L01.1L AA (Large Screen)	GB	3122 785 11140
SM L01.1L AA (Large Screen)	E	3122 785 11791
SM L01.1L AA (Large Screen)	Br/Por	3122 785 11811

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM L01.1L AA / L01.2L AA Supplement L01H.1L AA / L01H.2L AA	GB	3122 785 11980
SM L01.1L AA / L01.2L AA Supplement L01H.1L AA / L01H.2L AA	E	3122 785 11990
SM L01.1L AA / L01.2L AA Supplement L01H.1L AA / L01H.2L AA	Br/Por	3122 785 12000

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM L01.1L AB	E	3122 785 12690
SM L01.1L AB	Br/Por	3122 785 12701

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM L01.1L AC	GB	3122 785 13230
SM L01.1L AC	E	3122 785 13250
SM L01.1L AC	Br/Por	3122 785 13240

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM L01.1U AA (Large Screen, USA: 8)	GB	3122 785 11170

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM L01.1U AB (T8 AA)	GB	3122 785 12740

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM L01.1U AC	GB	3122 785 13220
SM L01.1U AC (SM Update with SD5.12 DVD Module)	GB	3122 785 13221

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM L01.2A AA (Small Screen)	GB	3122 785 11160

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM L01.2A AB	GB	3122 785 12750

SERVICE INFORMATION	LANGUAGE	CODE NUMBER
SI L01.2A AB 02.01 / L01.2L AB 02.01	GB	3122 785 40730

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM L01.2E AA (Small Screen)	GB	3122 785 11151
SM L01.2E AA (Small Screen)	D	3122 785 11740
SM L01.2E AA (Small Screen)	F	3122 785 11750
SM L01.2E AA (Small Screen)	I	3122 785 11760
SM L01.2E AA (Small Screen)	E	3122 785 11770

SERVICE INFORMATION	LANGUAGE	CODE NUMBER
SI L01.2E AA 02.01	ALL	3122 785 40620

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM L01.2L AA (Small Screen)	GB	3122 785 11180
SM L01.2L AA (Small Screen)	E	3122 785 11800
SM L01.2L AA (Small Screen)	Br/Por	3122 785 11820

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM L01.2L AB	E	3122 785 12710
SM L01.2L AB	Br/Por	3122 785 12721

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM L01.2U AA (Small Screen, USA: L8)	GB	3122 785 11130

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM L01.2U AB (S8 AA)	GB	3122 785 12760

SERVICE INFORMATION	LANGUAGE	CODE NUMBER
SI L01H.1A AA	GB	3122 785 40420
SI L01H.1A/L01H.2A 03.01 new intf.panel	GB	3122 785 40770

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM L01H.1E AA	GB	3122 785 11630
SM L01H.1E AA	D	3122 785 12110
SM L01H.1E AA	F	3122 785 12120
SM L01H.1E AA	I	3122 785 12130
SM L01H.1E AA	E	3122 785 12140

SERVICE INFORMATION	LANGUAGE	CODE NUMBER
SI L01H.1E AA 02.01	GB,D,F	3122 785 40690

SERVICE INFORMATION	LANGUAGE	CODE NUMBER
SI L01H.1E/L01H.2E 02.02 new intf.panel	ALL	3122 785 40760

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM L01H.2A AA	GB	3122 785 11660

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM L01H.2E AA	GB	3122 785 11640
SM L01H.2E AA	D	3122 785 12150
SM L01H.2E AA	F	3122 785 12160
SM L01H.2E AA	I	3122 785 12170
SM L01H.2E AA	E	3122 785 12180

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM L03.1L AA	GB	3122 785 13900

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM L03.1U AA	GB	3122 785 13930

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM L03.2U AA	GB	3122 785 14560

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM L04A AA	GB	3122 785 14470
SM L04A AB	GB	3122 785 14770

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM L04E AA	GB	3122 785 14480
SM L04E AB	GB	3122 785 14970

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM L04L AA	GB	3122 785 14440

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM L04U AA	GB	3122 785 14430

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM L04HE AA	GB	3122 785 14820

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM L04HU AA	GB	3122 785 14840

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM LC03A AA (service info update 23")	GB	3122 785 13601

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM LC03E AA	D	3122 785 13580
SM LC03E AA	F	3122 785 13590
SM LC03E AA (service info update 23")	GB	3122 785 13571

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM LC03L AA	GB	3122 785 13620
SM LC03L AA	E	3122 785 13640
SM LC03L AA	Br/Por	3122 785 13630

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM LC03U AA (service info update 23")	GB	3122 785 13611

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM LC13A AA	GB	3122 785 14070

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM LC13E AA	GB	3122 785 14030

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM LC13U AA	GB	3122 785 14060

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM LC4.1A AA	GB	3122 785 14540

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM LC4.1E AA	GB	3122 785 14520

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM LC4.1L AA	GB	3122 785 14530

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM LC4.1U AA	GB	3122 785 14530

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM LC4.2A AA	GB	3122 785 14510

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM LC4.2E AA	GB	3122 785 14491

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM LC4.2U AA	GB	3122 785 14500

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM LC4.6A AA	GB	3122 785 14751

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM LC4.6E AA	GB	3122 785 14710

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM LC4.6L AA	GB	3122 785 15180

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM LC4.6U AA	GB	3122 785 14732

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM LC4.7A AA	GB	3122 785 147961

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM LC4.7E AA	GB	3122 785 14721

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM LC4.7L AA	GB	3122 785 15190

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM LC4.7U AA	GB	3122 785 14741

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM LCD1.15E AA	GB	3122 785 12510

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM LCD1.20E AA	GB	3122 785 12520

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM T1.1A AA	GB	3122 785 13000

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM TE1.1E AA	GB	3122 785 13540
SM TE1.1E AA	D	3122 785 13550
SM TE1.1E AA	F	3122 785 13560

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM TC2.1A AA	GB	3122 785 13690
SM TC2.1A AB	GB	3122 785 14550

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM TC3.1U AA	GB	3122 785 14800

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM TC4.1U AA	GB	3122 785 14790

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM TDVD1.1E AA	GB	3122 785 12970
SM TDVD1.1E AA	D	3122 785 12980
SM TDVD1.1E AA	F	3122 785 12990

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM TDVD2.1E	GB	3122 785 14170

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM TDVD2.1E	GB	3122 785 14170

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM TE1.1E AA	GB	3122 785 13540
SM TE1.1E AA	D	3122 785 13550
SM TE1.1E AA	F	3122 785 13560

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM TE2.1E AA	GB	3122 785 14930

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM TF1.1E AA	GB	3122 785 15130

SERVICE MANUAL	LANGUAGE	CODE NUMBER
SM VGA PDP repair manual	GB	3122 785 14360

Remote Control Survey

RC TYPE	CODE NUMBER
06-015W30-A171X	996500023465
06-0R1735-H009X	996500022880
08-1465-RMY	996500014907
08-2165-RMY	996500015401
08-HS46F0-M133A	996500024266
M28-2	996500017920
RC11128/17	313923805781
RC1112917/17A	313923804701
RC1123507/00	631020092071
RC1553801/01	932220716667
RC1553802/01	312814715901
RC1553803/01	312814715921
RC1553805/01	313923808571
RC19036001/01	313922886491
RC19036002/01A	313923804313
RC19039001/01	313922886471
RC19041006/01	313923803811
RC19042001/01	313922886482
RC19042002/01	312814713341
RC19042007/01	312814714521
RC19042008/01	312814714871
RC19042009/01	312814714881
RC19042011/01	312814715231
RC19042013/01	631020092091
RC19042017/01	312814715351
RC19335003	313922886452
RC19335003/01	313922886452
RC19335004	313922886463
RC19335004/01	313922886463
RC19335014/01	313923805691
RC19335016/01	313923805851
RC19335019/01	313923808141
RC19335021/01	313923808161
RC2044/01	312814713651
RC2049/01B	312814713991
RC2060/01B	312814714011
RC2080	312814714861
RC2080/01	932215582667
RC25109/01	996500014330
RC2882/01	313922881973
RC4301/01	312814714411
RC4302/01	312814714431
RC4305/01	312814714461
RC4306/01B	312814716191
RC4307/01B	312814716201
RC4330/01	313923807441
RC4330/01H	313923807441
RC4332/01	312814715761
RC4333/01	313923807181
RC4334/01	313923807191
RC4335/01	313923807591
RC4337/01B	313923807921
RC4341/01B	313923810141
RC86702/01	313922889381
RC4330/01H	313923807441
RC19042008/01	312814714871
RC1553803/01	312814715921
RCLA014	313922886482
RCLA015	313912876471
RCLE011	313912876291
RCLE013A	631020092101
RCLE016	631020092051
RCLU012	313923804313
RCS82D	482221910548
SBHV00030A	310432700021
SBHV00032A	310432700031

Tuner Survey

TUNER TYPE	CODE NUMBER
07-457FR5-NX1	996500024347
CTT5020E/CFT5510	616800020001
ENV56D98G3	242254290108
ENV56K06G3	242254200007
ENV56K06G3	242254200007
TAFC-M130D	996500016507
TAFC-S120D	996500016521
TEDE9-031A	242254290072

TEDE9-200A	242254290106
TEDE9-201A	242254290107
TEDE9-228A	242254290122
TEDE9-228B	242254290122
TEDE9-286A	242254200003
TEDE-716A	242254200012
TEDE9-717A	242254200012
TEDE9X029A	242254290067
TEDE9X701A	242254290076
TEDE9X717A	242254200012
TEDH9-200A	242254290098
TEDH9-202A	242254290115
TEDH9-202A	242254290115
TEDH9-257A	242254200009
TEDH9-305A	242254290141
TEDH9-705A	242254200006
TEDH9X700A	242254290077
U1356A/A I G-3	313914716481
UR1316/A	313914719701
UR1316/A I -3	313914720751
UR1316/A I H-3	313914719701
UR1316R/A I -3	313914720751
UR1316R/A I H-3	313914719701
UR1316R/A I-3	313914717402
UR1336/A F	313914719711
UR1336/A F S H-3	313914719711
UR1336/A FI S H-3	313914722321
UV1316/A I X U-3	313914718851
UV1316E/A I-4	313914720911
UV1317/A I G-3	313914719171
UV1317/A I X U-3	313914719231
UV1318S/A I U-3	313914719361
UV1318S/A I-3	313914719341
UV1318S/A IH-3	313914719801
UV1318ST/AIH-3	313914720201
UR1336/A FI S H -3	313914722321
UV1338/A F S H-4	313914721461
UV1355-BK2	996500014970
UV1355C/A I B-3	996500022881
UV1356A/A I G-3	313914716481
UV1356A/A I G-3	313914716481
UV1356A/AIG-3	313914716481
UV1356E/A	313914721141
UVS1053-EW	996500023477

CRT Survey

RC TYPE	CODE NUMBER
37SX110Y22-DC05	996500014942
A33EKC02X01	070362110151
A34KPU02XXE6-N	996500023471
A36AKJ13X16	070306211300
A36AKJ15X07	932219116682
A51AEZ90X45	932220701682
A51AKL13X10	932220227682
A51AKL13X10N	932220229682
A51AKL13X10R	932220230682
A51ERF135X12	930192350301
A51ERF135X80	930190343301
A51ERF135X82	930190381329
A51JSY63X13	996500017980
A51KQK99X02	932220200682
A51KXR95X01	932215260682
A51LYZ095X01	932219608682
A51QAE320XA5	996500023503
A59EAK071X11	482213111184
A59QDC257X61(N)	930193520522
A59QDC257X61(Q)	930193530522
A59QDF891X001(L)	932216387682
A66EAK071X11	482213111045
A66EAK075X21	930186300301
A66EAK075X54	930186310314
A68ELA021X201	932220517682
A68ERF012X013	930194090314
A68ERF112X013	930194090314
A68ERF142X044	930196570347
A68QCP691X500	932221383682
A68QCP691X501	932221384682

A68QCP893X001	932217375682
A68QCU770X73(N)	930194660542
A68QDL280X062	932219605682
A68QDL281X062	932219606682
A80ERF042X45	930192720542
A80ERF142X45	930195360542
P16LXL00BMB(C)	932220293682
P16LXL00HHA(C)	932220292682
P16LXL00RFA(C)	932220291682
W66ECK001X14	482213111345
W66ECK011X14	482213111345
W66ERF022X013	930188810314
W66ERF072X044	930192160307
W66ERF112X013	930193420307
W76ERF022X013	930188830314
W76ERF022X016	930188830314
W76ERF042X044	930188070314
W76ERF072X044	930192190314
W86ERF063X144	930191450304

TFT/PDP Survey

Display TYPE	CODE NUMBER
LC150X01-A3	932219631682
LC150X02-A4	932220748682
LC171W03-A4	932219632682
LC171W03-A4KC	932221148682
LC201V02-A3	932219744682
LC201V02-A3	932219744682
LC201V02-A3K5	932221150682
LC201V1-A1	996500016522
LC230W01-A2K8	932220984682
LC260W01-A5K6	932221269682
LC300W01-A3P7	932219800682
QD23WL05	932221413682

Software Survey

SOFTWARE SURVEY										REPLACED BY	
CHASSIS	FAMILY	PRODUCTION CODE	UP TYPE/VERSION	IDENT	SERVICE CODE	HOTEL MODE ?	REMARKS TYPICAL FOR THIS SOFTWARE	IDENT	SERVICE CODE		
A02E AA	Europe W+E	From Wk344		A02EB1-1.01	9955 000 23334	No		A02EB1-1.09	3139 127 01304		
A02E AA	Europe W+E	From Wk345		A02EB1-1.02	9955 000 23334	No		A02EB1-1.09	3139 127 01304		
A02E AA	Europe W+E	From Wk348		A02EB1-1.03	3139 127 01301	No		A02EB1-1.09	3139 127 01304		
A02E AA	Europe W+E	From Wk402		A02EB1-1.05	3139 127 01302	No		A02EB1-1.09	3139 127 01304		
A02E AA	Europe W+E	From Wk404		A02EB1-1.07	3139 127 01303	No		A02EB1-1.09	3139 127 01304		
A02E AA	Europe W+E, 800pg TXT, digital scan	From Wk404		A02EB1-1.08	3139 127 01304	No		A02EB1-1.09	3139 127 01304		
A02E AA	Europe W+E, 800pg TXT, digital scan	From Wk404		A02EB1-1.09	3139 127 01304	No		A02EX1-2.02	3139 127 01534		
A02E AA	Europe W+E, 800pg TXT, digital scan	From Wk423		A02EB1-1.31	?	No		A02EX1-2.02	3139 127 01534		
A02E AA	Europe W+E, 100pg TXT	From Wk444		A02EB1-1.41	?	No		A02EX1-2.02	3139 127 01534		
A02E AA	Europe W+E, 100pg TXT	From Wk444		A02EX1-2.02	3139 127 01534	No	Introduction of volume curve option using EWU option bit in th eSAM mode. EWU = OFF for 2K3 sets and EWU = ON for 2K3+	-	-		
A02E AA	Europe W+E, 800pg TXT, digital scan, 2K3+	From Wk421		A02EB1-1.23	?	No	Solved: Hang up and blue mute on normal picture	-	-		
A02E AA	Europe W+E, 800pg TXT, digital scan, 2K3+	From Wk423		A02EB1-1.31	3139 127 01533	No	Solved: hang up issue	-	-		
A02E AA	Europe W+E, 100pg TXT, 2K3 and 2K3+	From Wk444		A02EX1-2.02	3139 127 01534	No	Only for service	-	-		
A02E AA	Europe W+E, 800pg TXT, digital scan, 2K4			A02EU04-2.4	3139 127 02291	No	Solved: Hang up and blue mute on normal picture	-	-		
A02E AA	Europe W+E, 800pg TXT, digital scan, 2K4			A02EU04-3.1	3139 127 02292	No	Solved: Hang up and blue mute on normal picture	-	-		
A02E AA	Europe W+E, 800pg TXT, digital scan, 2K4			A02EU04-3.22	3139 127 02293	No	Solved: Hang up and blue mute on normal picture	-	-		
A10A AA	China, non-TXT	From Wk026 and higher		A10AP1-1.0	9955 000 07276	No	Initial version	A10AP1-1.9	9955 000 07276		
A10A AA	China, non-TXT	From Wk029 and higher		A10AP1-1.1	9955 000 07276	No	OSD of the a locked channel is not displayed - TV lock updown channel of CVI - Comfilter switching problem at low signal - PIP OSD position in mode 1,2,3,4 - PIP OSD out of PIP window when in CVI - Dual I/II key problem on external channel - TV lock problem enter access code.	A10AP1-1.9	9955 000 07276		
A10A AA	China, non-TXT	From Wk030 and higher		A10AP1-1.3	9955 000 07276	No	HeadPhone pop sound during PIP channel change - Adjust hue(tint) offset for non CVI - After manual store, the sound reset to theater - Hue value in CSM is - 50. Whereas in normal mode is 0 - ACH to toggle RF source to AV source is not working when program list is on - Program list scrolling when av source is skipped problem - Contrast reduction when no video ident- Headphone not mute when DECC, DW, PIP, off	A10AP1-1.9	9955 000 07276		
A10A AA	China, non-TXT	From Wk034 and higher		A10AP1-1.4	9955 000 07276	No	IO expander set / reset SAW filter should be done for all AP region - Double window corruption - To fix warning message for PIP	A10AP1-1.9	9955 000 07276		
A10A AA	China, non-TXT	From Wk052 and higher		A10AP1-1.5	9955 000 07276	No	Audio is muted after perform line tuning and stored - White line is seen in 16:9 mode with DVD input for NTSC mode	A10AP1-1.9	9955 000 07276		
A10A AA	China, non-TXT	From Wk126 and higher		A10AP1-1.6	9955 000 07276	No	Remove PIP submen when the option PIPC is OFF - Headphone crosstalk problem - To mute headphone when no signal input and during PIP channel change - Colour could not be detected when plug-in Y/C cable problem	A10AP1-1.9	9955 000 07276		
A10A AA	China, non-TXT	From Wk201+C36 and higher		A10AP1-1.8	9955 000 07276	No	Sound is muted after perform line tuning and stored - White line is seen in 16:9 mode with DVD input for NTSC mode	A10AP1-1.9	9955 000 07276		
A10A AA	China, non-TXT	From Wk201+C36 and higher		A10AP1-1.9	9955 000 07276	No		-	-		
A10A AA	AP PAL/Multi (57, /69, /73, /79), 10pg TXT	From Wk034 and higher		A10AS1-1.0	9955 000 07277	No	Initial version	A10AS1-1.6	9955 000 07277		
A10A AA	AP PAL/Multi (57, /69, /73, /79), 10pg TXT	From Wk040 and higher		A10AS1-1.1	9955 000 07277	No	Teletext clock display - IO expander set / reset SAW filter should be done for all AP region - Double window corruption - Fix warning message for PIP	A10AS1-1.6	9955 000 07277		
A10A AA	AP PAL/Multi (57, /69, /73, /79), 10pg TXT	From Wk047 and higher		A10AS1-1.2	9955 000 07277	No	Remove PIP submen when the option PIPC is OFF - Headphone crosstalk problem - To mute headphone when no signal input and during PIP channel change - Colour could not be detected when plug-in Y/C cable problem	A10AS1-1.6	9955 000 07277		
A10A AA	AP PAL/Multi (57, /69, /73, /79), 10pg TXT	From Wk126 and higher		A10AS1-1.4	9955 000 07277	No	White line is seen in 16:9 format with DVD input in NTSC mode.	A10AS1-1.6	9955 000 07277		
A10A AA	AP PAL/Multi (57, /69, /73, /79), 10pg TXT	From Wk126 and higher		A10AS1-1.6	9955 000 07277	No		-	-		
A10A AA	Middle East (/56), 10pg TXT	From Wk036 and higher		A10AS2-1.0	9955 000 07281	No	Initial version	A10AS2-1.4	9955 000 07281		
A10A AA	Middle East (/56), 10pg TXT	From Wk040 and higher		A10AS2-1.1	9955 000 07281	No	IO expander set / reset SAW filter should be done for all AP region - Double window corruption - To fix warning message for PIP	A10AS2-1.4	9955 000 07281		
A10A AA	Middle East (/56), 10pg TXT	From Wk047 and higher		A10AS2-1.2	9955 000 07281		Remove PIP submen when the option PIPC is OFF - Headphone crosstalk problem - To mute headphone when no signal input and during PIP channel change - Colour could not be detected when plug-in Y/C cable	A10AS2-1.4	9955 000 07281		
A10A AA	Middle East (/56), 10pg TXT	From Wk126 and higher		A10AS2-1.3	9955 000 07281		Dark page subtitle - Shift down OSD from first row - White line is seen in 16:9 format with DVD input in NTSC mode.	A10AS2-1.4	9955 000 07281		
A10A AA	Middle East (/56), 10pg TXT	From Wk126 and higher		A10AS2-1.4	9955 000 07281			-	-		
A10A AA	AP PAL/Multi (57, /69, /79), 100pg TXT	From Wk033 and higher		A10AT1-1.0	9955 000 07282	No	Initial version	A10AT1-1.6	9955 000 07282		
A10A AA	AP PAL/Multi (57, /69, /79), 100pg TXT	From Wk034 and higher		A10AT1-1.1	9955 000 07282	No	Teletext clock display - IO expander set / reset SAW filter should be done for all AP region - Double window corruption - Fix warning message for PIP	A10AT1-1.6	9955 000 07282		
A10A AA	AP PAL/Multi (57, /69, /79), 100pg TXT	From Wk044 and higher		A10AT1-1.2	9955 000 07282	No	Max cathode drive - Ports controllable by ComPair	A10AT1-1.6	9955 000 07282		
A10A AA	AP PAL/Multi (57, /69, /79), 100pg TXT	From Wk052 and higher		A10AT1-1.3	9955 000 07282	No	Remove PIP submen when the option PIPC is OFF - Headphone crosstalk	A10AT1-1.6	9955 000 07282		
A10A AA	AP PAL/Multi (57, /69, /79), 100pg TXT	From Wk111 and higher		A10AT1-1.4	9955 000 07282	No	Dark page subtitle - Shift down OSD from first row	A10AT1-1.6	9955 000 07282		
A10A AA	AP PAL/Multi (57, /69, /79), 100pg TXT	From Wk126 and higher		A10AT1-1.5	9955 000 07282	No	White line is seen in 16:9 format with DVD input in NTSC mode.	A10AT1-1.6	9955 000 07282		
A10A AA	AP PAL/Multi (57, /69, /79), 100pg TXT	From Wk201 and higher		A10AT1-1.6	9955 000 07282	No		-	-		

Software Survey

SOFTWARE SURVEY									
CHASSIS	FAMILY	PRODUCTION CODE	UP TYPE/VERSION	IDENT	SERVICE CODE	HOTEL MODE ?	REMARKS TYPICAL FOR THIS SOFTWARE	REPLACED BY IDENT	SERVICE CODE
A10A AA	Middle East PAL/Multi (56), 100ppg TXT	From Wk037 and higher	SAA5667	A10AT2-1.0	9965 000 07283	No	Initial version	A10AT2-1.4	9965 000 07283
A10A AA	Middle East PAL/Multi (56), 100ppg TXT	From Wk040 and higher	SAA5667	A10AT2-1.1	9965 000 07283	No	IO expander set / reset SAW filter should be done for all AP region - Double window corruption - Fix warning message for PIP	A10AT2-1.4	9965 000 07283
A10A AA	Middle East PAL/Multi (56), 100ppg TXT	From Wk052 and higher	SAA5667	A10AT2-1.2	9965 000 07283	No	Dark page subtitle (P801) - Shift down OSD from first row - White line is seen in 16:9 format with DVD input in NTSC mode.	A10AT2-1.4	9965 000 07283
A10A AA	Middle East PAL/Multi (56), 100ppg TXT	From Wk201 and higher	SAA5667	A10AT2-1.4	9965 000 07283	No		-	-
A10A AA	AP-NTSC (7/1, /97) non-TXT,	From Wk037 and higher	SAA5645	A10AN2-1.1	9965 000 07284	No	Initial version	A10AN2-1.6	9965 000 07284
A10A AA	AP-NTSC (7/1, /97) non-	From Wk107 and higher	SAA5645	A10AN2-1.3	9965 000 07284	No	Only mono sound can be heard upon mains ON - Headphone crossstalk problem	A10AN2-1.6	9965 000 07284
A10A AA	AP-NTSC (7/1, /97) non-	From Wk126 and higher	SAA5645	A10AN2-1.5	9965 000 07284	No	White line is seen in DVD 16:9 mode.	-	-
A10A AA	AP-NTSC (7/1, /97) non-	From Wk201 and higher	SAA5645	A10AN2-1.6	9965 000 07284	No		-	-
A10A AA	AP-NTSC (6/1), non-TXT, CC	From Wk037 and higher	SAA5645	A10AN2-1.1	9965 000 07285	No	Initial version	A10AN2-1.6	9965 000 07285
A10A AA	AP-NTSC (6/1), non-TXT, CC	From Wk111 and higher	SAA5645	A10AN2-1.2	9965 000 07285	No	Cancel all timer when hospitality mode is entered - Close Caption does not display after setting it to ON - Close Caption display problem in CVI mode - Lock icon can be seen in program list when CHLK is OFF - Left side of the screen is unblanked in blocked channel when sleep timer is ON and Close Caption is ON - Last status of sound detection - Error 16 & 13 reported in SOM when shorting SDM pins - Hospitality mode reset problem - No sound on channel 6 via	-	-
A10A AA	AP-NTSC (6/1), non-TXT, CC	From Wk126 and higher	SAA5645	A10AN2-1.5	9965 000 07285	No	White line is seen in DVD 16:9 mode.	A10AN2-1.6	9965 000 07285
A10A AA	AP-NTSC (6/1), non-TXT, CC	From Wk201 and higher	SAA5645	A10AN2-1.6	9965 000 07285	No		-	-
A10A AA DVD	AP PAL/Multi (57, /69, /79) 100ppg TXT,	From Wk041 and higher	SAA5667	A10ADT1-1.0	9965 000 07286	No	Initial version	A10ADT1-1.5	9965 000 07286
A10A AA DVD	AP PAL/Multi (57, /69, /79) 100ppg TXT,	From Wk044 and higher	SAA5667	A10ADT1-1.1	9965 000 07286	No	Headphone mute when RF has no signal - "X" not shown when RCS INCR.	A10ADT1-1.5	9965 000 07286
A10A AA DVD	AP PAL/Multi (57, /69, /79) 100ppg TXT,	From Wk111 and higher	SAA5667	A10ADT1-1.4	9965 000 07286	No	SURF pressed in DVD mode	-	-
A10A AA DVD	AP PAL/Multi (57, /69, /79) 100ppg TXT,	From Wk126 and higher	SAA5667	A10ADT1-1.5	9965 000 07286	No	Dark page subtitle problem - Shift down OSD from first row	A10ADT1-1.5	9965 000 07286
A10E AA	W Europe, 10 page TXT	Production start	SAA5566/M3	A10ET1-1.0	n.a.	No	White line is seen in DVD 16:9 mode.	-	-
A10E AA	W Europe, 10 page TXT	Production	SAA5566/M3	A10ET1-1.1	9932 677 14557	No	Initial version	A10ET1-1.7	3111 250 5451.1
A10E AA	W Europe, 10 page TXT	From Wk 032	SAA5566/M3	A10ET1-1.2	n.a.	No		A10ET1-1.7	3111 250 5451.1
A10E AA	W Europe, 10 page TXT	From Wk 034	SAA5566/M3	A10ET1-1.3	9932 681 58557	No		A10ET1-1.7	3111 250 5451.1
A10E AA	W Europe, 10 page TXT	From Wk 036	SAA5566/M3	A10ET1-1.4	3111 250 5451.1	No		A10ET1-1.7	3111 250 5451.1
A10E AA	W Europe, 10 page TXT	From Wk 128	SAA5566/M3	A10ET1-1.6	3111 250 5451.1	No	Solving of embarrassing Mute in EXT1 when DVD connected	A10ET1-1.7	3111 250 5451.1
A10E AA	W Europe, 10 page TXT	From Wk 204	SAA5566/M3	A10ET1-1.7	3111 250 5451.1	No	Solving of DIST issue	A10ET1-1.7	3111 250 5451.1
A10E AA	W Europe, 10 page TXT		SAA5566/M3	A10ET1-1.8	3111 250 5451.1	No		A10ET1-1.7	3111 250 5451.1
A10E AA	W Europe, 100 page TXT	Production start	SAA5667	A10EP1-1.1	n.a.	No	When software version A10EP1-2.0 is used change : VERSION_MAIN_ID on address 12(HEX) from value 01 to 02 and VERSION_SUB_ID on address 13(HEX) from value 09 to 00. In NVM	A10EP1-2.0	3111 250 5450.1
A10E AA	W Europe, 100 page TXT	From Wk 036	SAA5667	A10EP1-1.3	3111 250 5450.1	No	When software version A10EP1-2.0 is used change : VERSION_MAIN_ID on address 12(HEX) from value 01 to 02 and VERSION_SUB_ID on address 13(HEX) from value 09 to 00. In NVM	A10EP1-2.0	3111 250 5450.1
A10E AA	W Europe, 100 page TXT	From Wk 116	SAA5667	A10EP1-1.4	3111 250 5450.1	No	When software version A10EP1-2.0 is used change : VERSION_MAIN_ID on address 12(HEX) from value 01 to 02 and VERSION_SUB_ID on address 13(HEX) from value 09 to 00. In NVM	A10EP1-2.0	3111 250 5450.1
A10E AA	W Europe, 100 page TXT	From Wk 143	SAA5667	A10EP1-1.6	3111 250 5450.1	No	When software version A10EP1-2.0 is used change : VERSION_MAIN_ID on address 12(HEX) from value 01 to 02 and VERSION_SUB_ID on address 13(HEX) from value 09 to 00. In NVM	A10EP1-2.0	3111 250 5450.1
A10E AA	W Europe, 100 page TXT	From Wk 215	SAA5667	A10EP1-2.0	3111 250 5450.1	No		-	-
A10E AA	E Europe, 100 page TXT	Prod. start from Wk 040	SAA5667	A10EP2-1.0	9965 000 07287	No	Initial version	A10EP2-1.2	9965 000 07287
A10E AA	E Europe, 100 page TXT		SAA5667	A10EP2-1.2	9965 000 07287	No		-	-
A10E AA	E Europe, 100 page TXT		SAA5667	A10EP2-1.3	9965 000 17228	No		-	-
A10E AA DPL	W Europe, 100 page TXT	Prod. Start from Wk 039	SAA5667	A10ED1-1.0	9965 000 10425	No	Initial version	A10ED1-1.2	9965 000 10425
A10E AA DPL	W Europe, 100 page TXT	Prod. Start from Wk 128	SAA5667	A10ED1-1.2	9965 000 10425	No	Initial version	-	-
A10E AA DPL	E Europe, 100 page TXT		SAA5667	A10ED2-1.0	9965 000 07288	No	Initial version	-	-
A10E AA DVD	W Europe, 100 page TXT	Prod. Start from Wk 115	SAA5667	A10EDN1-1.1	9965 000 10426	No	Initial version	A10EDN1-1.5	9965 000 10426
A10E AA DVD	W Europe, 100 page TXT	Prod. Start from Wk 126	SAA5667	A10EDN1-1.2	9965 000 10426	No	Also known by the A10EVD2EU1-1.2	A10EDN1-1.5	9965 000 10426
A10E AA DVD	W Europe, 100 page TXT	Prod. Start from Wk 133	SAA5667	A10EDN1-1.3	9965 000 10426	No		A10EDN1-1.5	9965 000 10426
A10E AA DVD	W Europe, 100 page TXT	Prod. Start from Wk 137	SAA5667	A10EDN1-1.5	9965 000 10426	No		-	-
A10E AA DVD	W Europe, 100 page TXT	Prod. Start from Wk 208	SAA5667	A10EDN1-1.9	9965 000 19988	No	Drift of OSD clock is solved	-	-
A10E AA DVD	ASDI 0 application	QG4	AM29LV160BT-90SC	Version 7.26	3104 123 85540	n.a.		-	-
A10E AA DVD	ASDI 0 servo	QG4	AM29LV160BT-90SC	Version 5.11.4	3104 123 85860	n.a.		-	-
A10E AA DVD	ASDI 0 application software	QG4	AM29LV160BT-90SC	Version 5.11.4-M-0	3104 123 85860	n.a.		-	-
A10E AA DVD	ASDI 0 servo	QG4	AM29F002T	Version 5.11.4	3104 123 85860	n.a.		-	-
A10E AA DVD+DPL	W Europe, 100 page TXT	Prod. Start from Wk 135	SAA5667	A10EDD1-1.0	9965 000 12349	No	Initial version	A10EDD1-1.3	9965 000 12349
A10E AA DVD+DPL	W Europe, 100 page TXT	Prod. Start from Wk 208	SAA5667	A10EDD1-1.3	9965 000 12349	No	Drift of OSD clock is solved	-	-
A10E AA DVD+DPL	ASDI 0 application	QG4	AM29LV160BT-90SC	Version 7.26	3104 123 85540	n.a.		-	-
A10E AA DVD+DPL	ASDI 0 servo	QG4	AM29F002T	Version 5.11.4	3104 123 85860	n.a.		-	-
A10E AA DVD+DPL	SDS3 0 application software	QG5	AM29LV160DT-90SC	Version 4.15-M-0	9965 000 16405	n.a.		-	-
A10E AA DVD+DPL	ASDI 0 servo	QG4	AM29F002T	Version 5.11.4	3104 123 85860	n.a.		-	-
A10E AA DVD+DPL	E Europe, 100 page TXT	Prod. Start from Wk 135	SAA5667	A10EVD1-1.0	9965 000 12350	No	Initial version	A10EVD1-1.3	9965 000 12350

Software Survey

SOFTWARE SURVEY									
CHASSIS	FAMILY	PRODUCTION CODE	UP TYPE/VERSION	IDENT	SERVICE CODE	HOTEL MODE ?	REMARKS TYPICAL FOR THIS SOFTWARE	REPLACED BY IDENT	SERVICE CODE
A10E AA DVD+HPL	E Europe, 100 page TXT	Prod. Start from Wk 208	SAA5667	A10EVD1-1.3	9965 000 12350	No	Drift of OSD clock is solved	-	-
A10E AA DVD+HPL	ASDI 0 application	QG4	AW29LV160BT-90SC	Version 7.26	3104 123 85540	n.a.			
A10E AA DVD+HPL	ASDI 0 servo	QG4	AW29F002T	Version 5.1.14	3104 123 85860	n.a.			
A10E AA DVD+HPL	SD3.0 application software	QG5	AW29LV160BT-90SC	Version 4.15 M-0	9965 000 16405	n.a.			
A10E AA DVD+HPL	ASDI 0 servo	QG4	AW29F002T	Version 5.1.14	3104 123 85860	n.a.			
A10E AA DVD+HPL	W Europe, Digital TV	Prod. Start from Wk 223	SAA5667	A10EGN1-1.0	9965 000 14559	No		A10EGN1-1.3	9965 000 14559
A10E AA DVD+HPL	W Europe, Digital TV	Prod. Start from Wk 224	SAA5667	A10EGN1-1.1	9965 000 14559	No		A10EGN1-1.3	9965 000 14559
A10E AA DVD+HPL	W Europe, Digital TV	Prod. Start from Wk 227	SAA5667	A10EGN1-1.3	9965 000 14559	No		-	-
A10E AA DVD+HPL	W Europe, Digital TV	Prod. Start from Wk 232	SAA5667	A10EGN1-1.4	3111 250 54851	No		-	-
A10E AA DVD+HPL	SD3.0 application software	QG4	AW29LV160BT-90SC	Version 7.26	3104 123 85540	n.a.			
A10E AA DVD+HPL	SD3.0 application software	QG5	AW29LV160BT-90SC	Version 4.15 M-0	9965 000 16405	n.a.			
A10E BB	W Europe, Digital TV	Prod. Start from Wk335	SAA5667	A10EWH-1.2	3111 250 54951	No		-	-
EM1A	Cluster 1AP1	Production start	SAA5677HL/JM1	EM11A1_2.0_02871	3104 317 02871		First release in production	EM11A1_2.1_02821	3104 317 02821
EM1A	Cluster 2AP1	From week 0209	SAA5677HL/JM1	EM11A1_2.1_02921	3104 317 02921		New MSP BB-version	EM11A1_2.4_03261	3104 317 03261
EM1A	Cluster 1AP1	From week 0128	SAA5677HL/JM1	EM11A1_2.4_03261	3104 317 03261		Only for 34PTB419. Solution for: Microphony (reduced bass-settings), PIP-AGC to 8. Bass control option. Bass/Treble lost.	EM11A1_3.2_03821	3104 317 03821
EM1A	Cluster 1AP1	From week 0203	SAA5647HL/JM1	EM11A1_3.0_03571	3104 317 03571		Solution for: possible NVM data corruption.		
EM1A	Cluster 1AP1	From week 0220	SAA5647HL/JM1	EM11A1_3.2_03821	3104 317 03821				
EM1A	Cluster 2AP1	Production start	SAA5677HL/JM1	EM12A1_2.0_02881	3104 317 02881			EM12A1_2.1_02931	3104 317 02931
EM1A	Cluster 2AP1	From week 0109	SAA5677HL/JM1	EM12A1_2.1_02931	3104 317 02931			EM12A1_2.4_03271	3104 317 03271
EM1A	Cluster 2AP1	From week 0128	SAA5677HL/JM1	EM12A1_2.4_03271	3104 317 03271		New MSP BB-version.		
EM1A	Cluster 2AP1	From week 0204	SAA5677HL/JM1	EM12A1_3.0_03561	3104 317 03561		Only for 29PTB419. Microphony solution (reduced bass-settings).		
EM1A	Cluster 2AP1	AG08+CB1	SAA5677HL/JM1	EM12A1_3.0_03631	3104 317 03631		Only for 34PTB419. Microphony solution (reduced bass-settings).		
EM1A	Cluster 2AP1	From week 0222	SAA5677HL/JM1	EM1A21_1.0	9965 000 14382		Only for 2934PTB420.	EM1A21_1.2	9965 000 14382
EM1A	Cluster 2AP1	From week 0232	SAA5677HL/JM1	EM1A21_1.2	9965 000 14382		Only for 2934PTB420. Solution for: Missing Chinese characters in Dynamic Contrast menu.		
EM1A	Cluster 2AP2	Production start	SAA5677HL/JM1	EM12A2_2.0_02891	3104 317 02891			EM12A2_2.4_03281	3104 317 03281
EM1A	Cluster 2AP2	AG01, from week 0128	SAA5677HL/JM1	EM12A2_2.4_03281	3104 317 03281		New MSP BB-version.		
EM1A	Cluster 2AP2	From week 0208	SAA5677HL/JM1	EM12A2_3.0_03621	3104 317 03621		Only for 34PTB419. Microphony solution (reduced bass-settings).		
EM1A	Cluster 2AP2	From week 0222	SAA5677HL/JM1	EM1A22_1.0	9965 000 14383		Only for 2934PTB420.	EM1A22_1.1	9965 000 14383
EM1A	Cluster 2AP2	From week 0234	SAA5677HL/JM1	EM1A22_1.1	9965 000 14383		Only for 2934PTB420. Solution for: Subwoofer not muted during channel change. Incorrect Chinese characters in 'Digital Option'.		
EM1A-NTSC	Cluster 3AP1	From week 0133	SAA5677HL/JM1	EM13A1_1.1_03321	3104 317 03321			EM13A1_1.2_03351	3104 317 03351
EM1A-NTSC	Cluster 3AP1	From week 0134	SAA5677HL/JM1	EM13A1_1.2_03351	3104 317 03351			EM13A1_1.3_03371	3104 317 03371
EM1A-NTSC	Cluster 3AP1	From week 0135	SAA5677HL/JM1	EM13A1_1.3_03371	3104 317 03371				
EM1A-NTSC	Cluster 3AP1	AG02, from week 0208	SAA5677HL/JM1	EM13A1_3.0_03661	3104 317 03661		Only for 34PTB419. Microphony solution (reduced bass-settings).		
EM1A-NTSC	Cluster 3AP1	From week 0222	SAA5677HL/JM1	EM1A31_1.0	9965 000 14384		Only for 2934PTB420. Solution for: Several OSD problems. Channel does not change when Lock Channel list is toggled.	EM1A31_1.1	9965 000 14384
EM1A-NTSC	Cluster 3AP1	From week 0234	SAA5677HL/JM1	EM1A31_1.1	9965 000 14384				
EM1A-NTSC	Cluster 3AP2	From week 0133	SAA5677HL/JM1	EM13A2_1.1_03331	3104 317 03331			EM13A2_1.2_03361	3104 317 03361
EM1A-NTSC	Cluster 3AP2	From week 0134	SAA5677HL/JM1	EM13A2_1.2_03361	3104 317 03361			EM13A2_1.3_03381	3104 317 03381
EM1A-NTSC	Cluster 3AP2	From week 0135	SAA5677HL/JM1	EM13A2_1.3_03381	3104 317 03381			EM13A2_2.0_03491	3104 317 03491
EM1A-NTSC	Cluster 3AP2	From week 0211	SAA5677HL/JM1	EM13A2_2.0_03491	3104 317 03491				
EM1A-NTSC	Cluster 3AP2	AG02, from week 0208	SAA5677HL/JM1	EM13A2_3.0_03651	3104 317 03651		Only for 34PTB419. Microphony solution (reduced bass-settings).		
EM1A-NTSC	Cluster 3AP2	From week 0222	SAA5677HL/JM1	EM1A32_1.0	9965 000 14385		Only for 2934PTB420.	EM1A32_1.1	9965 000 14385
EM1A-NTSC	Cluster 3AP2	From week 0234	SAA5677HL/JM1	EM1A32_1.1	9965 000 14385		Only for 2934PTB420. Solution for: Several OSD problems. Channel does not change when Lock Channel list is toggled.		
EM1A-NTSC	Cluster 3AP2	From week 0250	SAA5677HL/JM1	EM1A32_2.4	9965 000 20631				
EM1.1A			SAA5696HL/JM1	EM1A21-1.2 EM1.1A AA	9965 000 20298				
EM1.1A		From week 426	SAA5697HL/JM1	EM1A21-2.1 EM1.1A AA	9965 000 24573				
EM1.1A									
EM1.1A		From week 426	SAA5696HL/JM1	EM1A22-1.2 EM1.1A AA	9965 000 20405				
EM1.1A			SAA5697HL/JM1	EM1A22-2.1 EM1.1A AA	9965 000 24574				
EM1.2A	/71	From week 343	SAA5677HL/JM1	EM1A31-1.4 EM1.2A AA	3139 127 00911				
EM1.2A	/61	From week 343	SAA5697HL/JM1	EM1A32-1.3 EM1.2A AA	3139 127 00901				
EM1.2A									
EM1.2A			SAA5677HL/JM1	EM1A31-1.1 EM1.2A AA	9965 000 20439				
EM1.2A			SAA5677HL/JM1	EM1A32-1.1 EM1.2A AA	9965 000 20440				
EM1L	Cluster 1LT1	From week 0126	SAA5677HL/JM1	EM11L1_1.1_03401	3104 317 03401			EM11L1_2.0_03781	3104 317 03781
EM1L	Cluster 1LT1	From week 0212	SAA5677HL/JM1	EM11L1_2.0_03781	3104 317 03781				
EM1L	Cluster 2LT1	From week 0136	SAA5677HL/JM1	EM12L1_1.2_03411	3104 317 03411				
EM1L	Cluster 2LT1	From week 0212	SAA5677HL/JM1	EM12L1_2.0_03791	3104 317 03791				
N8	Cluster 2US1	Production start	SAA5677HL/JM1	EM12U1_2.2_03391	3104 317 03391		Only for 34PTB419/78. Adapted for using ComPair tool.	EM12U1_3.0_03801	3104 317 03801
N8	Cluster 2US1	From week 0212	SAA5677HL/JM1	EM12U1_3.0_03801	3104 317 03801				

Software Survey

SOFTWARE SURVEY									
CHASSIS	FAMILY	PRODUCTION CODE	UP TYPE/VERSION	IDENT	SERVICE CODE	HOTEL MODE ?	REMARKS TYPICAL FOR THIS SOFTWARE	REPLACED BY IDENT	SERVICE CODE
N8 (Design Line)	Cluster 3US1	From week 0140	SAA5677HL/IM1	EM13U1_1.3_03461	3104 317 03461				
	Cluster 4US1	From week 0220	SAA5677HL/IM1	EM14U1_2.0_04001	3104 317 04001				
EM1*	FBX	From week 0007		EMG_REP1_02221	3104 317 42221				
EM1*	FBX	From week 0012		EMG_REP2_02341	3104 317 42341			EMG_REP2_02341	3104 317 42341
	FBX	From week 0027		EMG_REP3_02491	3104 317 42491			EMG_REP3_02491	3104 317 42491
EM1L EM1A-NTSC	FBX	From week 0042		EMG_RNERGE1_02741	3104 317 42741				
EM1A	FBX	From week 0112		EMG_RNERGE2_02991	3104 317 42991				
N8, P8	FBX			EMG_RNERGE3_03241	3104 317 43241				
EM5A NTSC	UP	Production start (0240)		EM5AN1_1.0_04061	3104 317 44061				
	UP	AG02, from week 0304		EM5AN1_1.2_04291	3104 317 44291			EM5AN1_1.2_04291	3104 317 44291
	UP	AG03, from week 0319		EM5AN1_1.3_04871	3104 317 44871		Solved: OSD translation errors in Hangul and Chinese. H. and V. adjustments added for 2H inputs.	EM5AN1_1.3_04871	3104 317 44871
EM5E	UP	Production start (0240)		EM5EU1_1.4_04111	3104 317 44111				
EM5E	UP	AG02, from week 0244		EM5EU1_2.3_04181	3104 317 44181		New: Alignments and Options must be 'stored' before leaving SAM (not valid for USA). Solved: Several TXT problems, EPG hang-ups, Permanent OSD.	EM5EU1_2.4_04251	3104 317 44251
EM5E	UP	AG03, from week 0250		EM5EU1_2.4_04251	3104 317 44251		Solved: EPG hand-up problems.	EM5EU1_2.5_04411	3104 317 44411
EM5E DVD	UP	Production start		EM5EU1_2.2_04081	3104 317 44081				
EM5E DVD	UP	AG02, from week 0248		EM5EU1_2.3_04181	3104 317 44181		New: Alignments and Options must be 'stored' before leaving SAM (not valid for USA). Solved: Several TXT problems, EPG hang-ups, Permanent OSD.	EM5EU1_2.3_04181	3104 317 44181
EM5E DVD	UP	AG03, from week 0250		EM5EU1_2.5_04411	3104 317 44411		Solved: EPG hand-up problems.	EM5EU1_2.5_04411	3104 317 44411
EM5E DVD	UP	From week 0025		EM5EU1_2.6_05701	3104 317 45701		Solved: On some channels wrong date in EPG. Spontaneous preset changes. Set sometimes goes into protection in Full Power Standby. No start-up when EasyLink device is connected to EX12.	EM5EU1_2.6_05701	3104 317 45701
EM5E DVD	UP	From week 0402		EM5EU1_2.7_06301	3104 317 46301		Service solution for: No image with SECAM picture on preset 1 coming from Satby.		
EM5L	UP	Production start (0304)		EM5L11_1.1_04471	3104 317 44471		Service solution for: Blocking sets		
R8	UP	Production start		EM5US1_1.0_04011	3104 317 04011				
EM5E/U/LAL	FBX (PixelPlus)	From week 0221		RE1F2_06	3104 317 43881		Solved: Bad display of non-interfaced signals ABAB mode.		
EM5E/U/LAL	FBX (PixelPlus)	Only for Service		RE1F2_07	3104 317 44521		Service solution for: Halo effect (waterly rims around moving objects).		
EM5E/U/LAL	FBX (non PixelPlus)	From week 0225		RNEF2_03701	3104 317 43701				
EM5E/U/LAL	FBX (PixelPlus)			RNEF2_02	3104 317 45321		Only 32PW6887/12 and 32PW6808/79R		
R8	DOC-NVM for DVI	Production start		EM5U_DVI_04511	3104 317 04511				
EM5_1E	xxPW9308	Production start (0313)		EM51EU_1.1_04791	3104 317 44791				
EM5_1E	xxPW9308	From week 0409		EM51EU_1.2_04941	3104 317 44941		Solved: Missing Greek "H" character in TXT.	EM51EU_1.2_04941	3104 317 44941
EM5_1E	xxPW9308/xxPW9319	From week 0411		EM51EU_1.3_06491	3104 317 46491		and acoustical settings	EM51EU_1.3_06491	3104 317 46491
EM5_1E	4:3	Production start (0312)		EM51EU_2.0_04791	3104 317 44791				
EM5_1E	4:3			EM51EU_2.1_04911	3104 317 44911			EM51EU_2.1_04911	3104 317 44911
EM5_1E	4:3			EM51EU_2.2_05001	3104 317 45001			EM51EU_2.2_05001	3104 317 45001
EM5_1E	4:3			EM51EU_2.3_05101	3104 317 45101		Solved: Missing Greek "H" character in TXT. Picture expands vertically after program change.	EM51EU_2.3_05101	3104 317 45101
EM5_1E	4:3			EM51EU_2.4_06491	3104 317 46491				
EM5_1E	xxPW9528			EM51EU_3.0_05111	3104 317 45111				
EM5_1E	xxPW9528	From week 0408		EM51EU_3.1_05121	3104 317 45121			EM51EU_3.1_05121	3104 317 45121
EM5_1E	xxPW9528			EM51EU_3.2_05211	3104 317 45211		Solved: Missing Greek "H" character in TXT.	EM51EU_3.2_05211	3104 317 45211
EM5_1U	UP	Production start (0304)		EM5US_2.0_04391	3104 317 44391				
EM5_1U	UP	Week 0315 and higher		EM5US_2.1_04401	3104 317 44401		Solution for: Crash during start-up when [Voll] button is pushed constantly. Clock extration problem.	EM5US_2.1_04401	3104 317 44401
EM5_1E	FBX	Production start (0312)		RE1F2_NSAC_03	3104 317 44671		Solution for: Lightsensor status indication problem in Dealer menu. PixelPlus demo problem.		
EM5_1E	FBX			RE1F2_NSAC_05	3104 317 45311			EM5_ FBX_03881	3104 317 43881
EM5_3E				EM53EU_1.0_06341	3104 317 46341				
EM5_3E				EM53EU_1.1_06351	3104 317 46351			EM53EU_1.1_06351	3104 317 46351
EM5_3E				EM53EU_1.2_06571	3104 317 46571			EM53EU_1.2_06571	3104 317 46571
EM5_3E				EM53EU_1.4_06891	3104 317 46891			EM53EU_1.4_06891	3104 317 46891
EM5_3E				EM53EU_1.5_07951	3104 317 47051		Solved: Faulty clock function. Set hangs when navigating through menu.		
EM5_3A PIM	xxPW9520/xx xxPT9421/xx			EM53AP_1.0_06801	3104 317 46801				
EM5_3	FBX			RE1C_COL_CRT_01	3104 317 46281				

Software Survey

SOFTWARE SURVEY									
CHASSIS	FAMILY	PRODUCTION CODE	UP TYPE/VERSION	IDENT	SERVICE CODE	HOTEL MODE ?	REMARKS TYPICAL FOR THIS SOFTWARE	REPLACED BY IDENT	SERVICE CODE
EM5 3	FBX			REIC COL CRT 02	3104 317 46561			REIC COL CRT 03	3104 317 46641
	FBX			REIC COL CRT 03	3104 317 46641				
	FBX			REIC COL CRT 04	3104 317 07001		For AP sets only		
EM6E AA				EM6EU1_1.0_04651	3104 317 44651			EM6EU1_1.1_04771	3104 317 44771
	UP			EM6EU1_1.1_04771	3104 317 44771			EM6EU1_1.2_04851	3104 317 44851
	UP			EM6EU1_1.2_04851	3104 317 44851			EM6EU1_1.3_04861	3104 317 44861
	UP	Week 0324 and higher		EM6EU1_1.3_04861	3104 317 44861				
	UP			EM6EU1_1.4_05671	3104 317 45671		Solved: Missing Greek 'H' character in TXT.		
EM6E AA (HDD)	UP			EM6EU1_2.1_05151	3104 317 45151			EM6EU1_2.2_05471	3104 317 45471
	UP			EM6EU1_2.2_05471	3104 317 45471			EM6EU1_2.3_05551	3104 317 45551
	UP			EM6EU1_2.3_05551	3104 317 45551			EM6EU1_2.4_04581	3104 317 4581
EM6E AA (HDD)	HDRM			HDRM SW 2.5.0	3104 317 04721				
	HDRM			HDRM SW 2.5.2	3104 317 06101				
EM6E AB				EM6EU1_3.0_04921	3104 317 04921			EM6EU1_3.1_04951	3104 317 04951
	UP			EM6EU1_3.1_04951	3104 317 04951			EM6EU1_3.2_05201	3104 317 05201
	UP			EM6EU1_3.2_05201	3104 317 05201			EM6EU1_3.3_05261	3104 317 05261
	UP			EM6EU1_3.3_05261	3104 317 05261			EM6EU1_3.4_05271	3104 317 05271
	UP			EM6EU1_3.4_05271	3104 317 05271			EM6EU1_3.5_05461	3104 317 05461
EM6E AB	UP			EM6EU1_3.5_05461	3104 317 05461			EM6EU1_3.6_05541	3104 317 05541
	UP			EM6EU1_3.6_05541	3104 317 05541				
EM6E AB	RDS Radio			Version 1.0.2	3104 317 04931			Version 1.0.5	3104 317 04981
	RDS Radio			Version 1.0.5	3104 317 04981			Version 1.0.7	3104 317 05191
	RDS Radio			Version 1.0.7	3104 317 05191			Version 1.0.8	3104 317 05431
	RDS Radio			Version 1.0.8	3104 317 05431				
EM6E	FBX			REIF2 NSAC 03	3104 317 44671				
F2IRE AA	Ebox-SSP EU/AP			F2IRE1_1.0_00247	3122 357 40247			F2IRE1_1.1_00248	3122 357 40248
	Ebox-SSP EU/AP			F2IRE1_1.1_00248	3122 357 40248		Also valid for AP versions	F2IRE1_1.2_00341	3122 357 40341
	Ebox-SSP EU/AP			F2IRE1_1.2_00341	3122 357 40341		Solved: Double height in EPG with zoom button. EU/USA diversity added to display alignment settings. EPG in combination with DW or PP, subtitles not always shown, info line in TXT mode not completely visible, in combination with FTV1.9, missing TXT lines in EPG.	F2IRE1_1.5_00342	3122 357 40342
F2IRE AA	Ebox-SSP EU/AP			F2IRE1_1.5_00342	3122 357 40342		Pre-defined last status value for brightness level depended of the monitor type option	F2IRE1_1.6_00343	3122 357 40343
F2IRE AA	Ebox-SSP EU/AP	AG01 and higher, week 225 onwards		F2IRE1_1.6_00343	3122 357 40343		This software can handle monitors of FTV1.9, FM23, FM24 and FM25. For monitor FTV1.9 also the jumper on the AV-interface has to be set accordingly. This software has a built-in monitor auto-detection system for the FM23, FM24 and FM25. For this the jumpers on the AV-interface has to be set for FM23 and the monitor type option (NVM) also has to be set to FM23.	F2IRE1_1.7_00344	3122 357 40344
F2IRE AA	Ebox-SSP EU/AP			F2IRE1_1.7_00344	3122 357 40344		Solution for set switching off and on.	F2IRE1_1.8_00345	3122 357 40345
	Ebox-SSP EU/AP	AG02 and higher		F2IRE1_1.8_00345	3122 357 40345		Switching on/off scaler implemented as result option numbers have been changed. Option code 3 changed from 49555 into 49587.	F2IRE1_1.9_00346	3122 357 40346
F2IRE AA	Ebox-SSP EU/AP			F2IRE1_1.9_00346	3122 357 40346		Solution for no headphone sound in VGA. Scaler can be switch On/Off with	F2IRE1_2.0_04801	3104 317 44601
F2IRE AA/AB	Ebox-SSP EU/AP			F2IRE1_2.0_04801	3104 317 44601			F2IRE1_2.1_04881	3104 317 44681
F2IRE AA/AB	Ebox-SSP EU/AP			F2IRE1_2.1_04881	3104 317 44681		Solution for light part on top of the screen in TV mode. NTSC colour problems in AP	F2IRE1_2.2_04761	3104 317 44761
F2IRE AA/AB	Ebox-SSP EU/AP			F2IRE1_2.2_04761	3104 317 44761		Not used in production (only service release). Problems solved: Brightness is set to 49. Secam detection is disabled when 60Hz is detected, (wrong colour detection problem), vertical wait is changed from 22 to 27 (solves 4-5 the white lines on top of the screen) and DVDR P50 communication problem.	F2IRE1_2.3_05351	3104 317 45351
F2IRE AA/AB	Ebox-SSP EU/AP			F2IRE1_2.3_05351	3104 317 45351		Zapping problem and clamping problem is solved by changing the Hop brightness from 15 to 12 (white horizontal band on top the screen)	F2IRE1_2.4_05451	3104 317 45451
	Ebox-SSP EU/AP			F2IRE1_2.4_05451	3104 317 45451		Zapping problem from version 2.3 is solved (Zapping takes too long).	F2IRE1_2.5_05481	3104 317 45481
	Ebox-SSP EU/AP			F2IRE1_2.5_05481	3104 317 45481		Solved: Several TXT problems.	F2IRE1_2.6_05491	3104 317 45491
	Ebox-SSP EU/AP			F2IRE1_2.6_05491	3104 317 45491		Solved: wrong & character in program name on Nederland 3 transmission	F2IRE1_2.7_06931	3104 317 46931
	Ebox-SSP EU/AP	Not used in production		F2IRE1_2.7_06931	3104 317 46931		Service solution for: Sound interruptions with overmodulated antenna signals in System B/G/H (Especially India).	n.a.	n.a.
F2IRU AA	Ebox-SSP USA			F2IRU1_1.1_00362	3104 317 43081			F2IRU1_1.1_00362	3122 357 40362
	Ebox-SSP USA			F2IRU1_1.1_00362	3122 357 40362			F2IRU1_1.2_00364	3122 357 40364
	Ebox-SSP USA			F2IRU1_1.2_00364	3122 357 40364			F2IRU1_1.3_00365	3122 357 40365
	Ebox-SSP USA	AG01 and higher, week 222 onwards		F2IRU1_1.3_00365	3122 357 40365		Solved: Hang ups due to DW, caused by a problem during initialisation of the monitor FTV1.9 also the jumper on the AV-interface has to be set accordingly.	F2IRU1_1.4_00366	3122 357 40366
	Ebox-SSP USA	AG01 and higher, week 233 onwards		F2IRU1_1.4_00366	3122 357 40366		This software has a built-in monitor auto-detection system for the FM23, FM24 and FM25. For this the jumpers on the AV-interface has to be set for FM23 and the monitor type option (NVM) also has to be set to FM23.	F2IRU1_1.8_00368	3122 357 40368
F2IRU AA	Ebox-SSP USA			F2IRU1_1.8_00368	3122 357 40368		This software can handle monitors of FTV1.9, FM23, FM24 and FM25. For monitor FTV1.9 also the jumper on the AV-interface has to be set accordingly. This software has a built-in monitor auto-detection system for the FM23, FM24 and FM25. For this the jumpers on the AV-interface has to be set for FM23 and the monitor type option (NVM) also has to be set to FM23.	F2IRU1_1.9_00369	3122 357 40369
F2IRU AA	Ebox-SSP USA			F2IRU1_1.9_00369	3122 357 40369		Solved: Some FDW problems.	F2IRU1_1.11_00432	3122 357 40431

Software Survey

SOFTWARE SURVEY									
CHASSIS	FAMILY	PRODUCTION CODE	UP TYPE/VERSION	IDENT	SERVICE CODE	HOTEL MODE ?	REMARKS TYPICAL FOR THIS SOFTWARE	REPLACED BY IDENT	SERVICE CODE
F21RU AA	Ebox-SSP USA			F21RU1_1.10_00431	3122 357 40431			F21RU1_1.11_00432	3122 357 40432
F21RU AA	Ebox-SSP USA	AG03		F21RU1_1.11_00432	3122 357 40432		Solved: Picture blanking when watching a 1H signal on AV4 and any other signal is connected to AV5 Y-input.	F21RU1_2.0_04591	3104 317 44591
F21RU AB	Ebox-SSP USA			F21RU1_2.0_04591	3104 317 44591		Solved: Standby problem (takes 15 min. to go to STBY). Change option of "Service Options", Miscellaneous', Region' into AP NTSC, LATAM, or US.	F21RU1_2.1_04691	3104 317 44691
F21RU AB	Ebox-SSP USA	AG1B		F21RU1_2.1_04691	3104 317 44691			F21RU1_2.2_04731	3104 317 44731
				F21RU1_2.2_04731	3104 317 44731				
F21RU	Ebox-AV interface enhanced		EP1D	F21RU1_3.4_00391	3122 357 40391				
F21REU AA	Ebox-FBX			V1.3	3122 357 40134			X6F2V13_V1.3	3122 357 40234
F21REU AA	Ebox-FBX			X6F2V13_V1.3	3122 357 40234		Solved: Due to refresh of the FBX by the main software some registers for 60Hz mode in the FBX were incorrectly reset.	X6F2V13_V1.4	3122 357 40235
F21REU AA	Ebox-FBX			X6F2V13_V1.4	3122 357 40235		Solved: Vertical zoom in autformat is reduced for 4:3 pictures. Upper part of picture jitters with certain DVD or VLP in still picture mode (freeze).		3122 357 40236
F21REU AA	Ebox-FBX			X6F2V13_V1.5	3122 357 40236				
F21REU AAF21REU AB	Ebox-FBX			RENF2_FTV_01_04331	3104 317 44331			RENF2_FTV_01_04332	3104 317 44332
F21REU AAF21REU AB	Ebox-FBX			RENF2_FTV_01_04332	3104 317 44332				
F22RE AA	Ebox-SSP EUJAP			F22RE1_1.1_04641	3104 317 44641			F22RE1_1.2_04701	3104 317 44701
F22RE AA	Ebox-SSP EUJAP			F22RE1_1.2_04701	3104 317 44701			F22RE1_1.3_04741	3104 317 44741
F22RE AA	Ebox-SSP EUJAP			F22RE1_1.3_04741	3104 317 44741			F22RE1_1.4_04881	3104 317 44881
F22RE AA	Ebox-SSP EUJAP	AG01		F22RE1_1.4_04881	3104 317 44881		Solved: Problems regarding digital video distortion.	F22RE1_1.5_04891	3104 317 44891
F22RE AA	Ebox-SSP EUJAP			F22RE1_1.5_04891	3104 317 44891			F22RE1_1.6_05041	3104 317 45041
F22RE AA	Ebox-SSP EUJAP			F22RE1_1.6_05041	3104 317 45041			F22RE1_1.7_05051	3104 317 45051
F22RE AA	Ebox-SSP EUJAP			F22RE1_1.7_05051	3104 317 45051		Solved: Set goes into protection after zapping. Sound without picture after	F22RE1_1.8_05081	3104 317 45081
F22RE AA	Ebox-SSP EUJAP			F22RE1_1.8_05081	3104 317 45081		Solved: PixelPlus demo mode problems.	F22RE1_1.9_05091	3104 317 45091
F22RE AA	Ebox-SSP EUJAP			F22RE1_1.9_05091	3104 317 45091		Solved: Name of external AV-inputs is not stored.		
F22RE AA	Ebox-SSP EUJAP			F22RE1_1.A_06251	3104 317 46251		Solved: "TV Menu" is changed in "TV" in with cinema-link and greek character H		
F22RE AA	Ebox-SSP EUJAP			F22RE1_1.B_06781	3104 317 46781		Service solution for: Sound interruptions with overmodulated antenna signals in system Bt/GH (especially India).		
F22RE AA	Ebox-SSP EUJAP			F22RE1_2.0_07641	3104 317 47641		Service solution for: Sound cracking due to overmodulated antenna signals in system DTK (especially China).		
F22RE AA	Ebox-SSP EUJAP			F22RE1_3.0_08791	3104 317 48791				
F22RU AA	Ebox-SSP USA			F22RU1_1.0_04611	3104 317 44611			F22RU1_1.1_04631	3104 317 44631
F22RU AA	Ebox-SSP USA			F22RU1_1.1_04631	3104 317 44631			F22RU1_1.2_04751	3104 317 44751
F22RU AA	Ebox-SSP USA			F22RU1_1.2_04751	3104 317 44751			F22RU1_1.3_04811	3104 317 44811
F22RU AA	Ebox-SSP USA			F22RU1_1.3_04811	3104 317 44811			F22RU1_1.4_04991	3104 317 44991
F22RU AA	Ebox-SSP USA			F22RU1_1.4_04991	3104 317 44991			F22RU1_1.5_05361	3104 317 45361
F22RU AA	Ebox-SSP USA			F22RU1_1.5_05361	3104 317 45361				
F22REU AA	Ebox-FBX			REIF2_FTV_02_04661	3104 317 44661				
FM23/FM24	Monitor-OTC basic	AG98 and higher		FM23GB-1.1-00272	3122 357 00272			FM23GB-1.3-00274	3122 357 00274
FM23/FM24	Monitor-OTC basic			FM23GB-1.2-00273	3122 357 00273			FM23GB-1.3-00274	3122 357 00274
FM23/FM24/FM33	Monitor-OTC basic			FM23GB-1.3-00274	3122 357 00274		Solution for: reliable working of service pins, in ComPair mode monitor can be switched to SDI, standby, etc.	FM23GB-1.4-00275	3122 357 00275
FM23/FM24/FM33	Monitor-OTC basic			FM23GB-1.5-00275	3122 357 00275		Solution for: VGA direct key does not always function according specification, protection, no sound after switching from AV3 YCbCr to AV3 Auto and vice versa, error code 12, sometimes ther is no picture or sound after switching on the monitor and E-box, green lines visible at the bottom of the screen after painting on 1th sources.	FM23GA-1.6-00382	3122 357 00382
FM23/FM24	Monitor-OTC enhanced								
FM23/FM24	Monitor-OTC enhanced			FM23GE-1.4-00381	3122 357 00381			FM23GE-1.6-00382	3122 357 00382
FM23/FM24	Monitor-OTC enhanced			FM23GA-1.6-00382	3122 357 00382		Solution for: Green flickering screen on AV3 1H input, when selecting AV3 480p for the first time the picture is blank/unblanking continuously, green lines visible at the bottom of the screen after panning on 1H sources, when AV3 is selected sometimes the images is not detected, picture shift not stored in NVM, ITV functionality added. Problems with ADC alignment in panel mode and VsvA alignment are solved	FM23GA-1.9-00384	3122 357 00384
FM23/FM24	Monitor-OTC enhanced								
FM23/FM24/FM33	Monitor-OTC enhanced			FM23GA-2.0-00385	3122 357 00385			FM23GA-2.2-00387	3122 357 00387
FM23/FM24/FM33	Monitor-OTC enhanced			FM23GA-2.0-00387	3122 357 00387			FM23GA-2.3-00388	3122 357 00388
FM23/FM24/FM33	Monitor-OTC enhanced			FM23GA-2.3-00388	3122 357 00388				
FM23/FM24	Monitor-P.W.			FM23GB-1.2-00263	3122 357 00263			FM23GB-1.3-00264	3122 357 00264
FM23/FM24	Monitor-P.W.			FM23GB-1.3-00264	3122 357 00264			FM23GB-1.3-00265	3122 357 00265
FM23/FM24	Monitor-P.W.			FM23GB-1.3-00265	3122 357 00265			FM23GB-1.5-00267	3122 357 00267
FM23/FM24/FM33	Monitor-P.W.			FM23GA-1.5-00267	3122 357 00267			FM23GA-1.7-00269	3122 357 00269
FM23/FM24/FM33	Monitor-P.W.			FM23GA-1.7-00269	3122 357 00269			FM23GA-2.0-00422	3122 357 00422
FM23/FM24/FM33	Monitor-P.W.			FM23GA-1.7-00421	3122 357 00421			FM23GA-2.1-00423	3122 357 00423
FM23/FM24/FM33	Monitor-P.W.			FM23GA-2.0-00422	3122 357 00422		First release FM2 42	FM23GA-2.2-00424	3122 357 00424
FM23/FM24/FM33	Monitor-P.W.			FM23GA-2.1-00423	3122 357 00423			FM23GA-2.3-00426	3122 357 00426
FM23/FM24/FM33	Monitor-P.W.			FM23GA-2.2-00424	3122 357 00424			-	-
FM23/FM24/FM33	Monitor-P.W.			FM23GA-2.3-00426	3122 357 00426			-	-
FM23/FM24/FM33	Monitor-P.W.			FM23GA-2.4-00427	3122 357 00427			-	-

Software Survey

SOFTWARE SURVEY										
CHASSIS	FAMILY	PRODUCTION CODE	UP TYPE/VERSION	IDENT	SERVICE CODE	HOTEL MODE ?	REMARKS TYPICAL FOR THIS SOFTWARE	REPLACED BY IDENT	SERVICE CODE	
FM23/FM24/FM242/FM33	Monitor-P.W.			FM23GA-3.0-00521	3122 357 00521		Only for new PixelWorks 164B.			
	Monitor-P.W.			FM23GA-3.2-00523	3122 357 00523		Only for new PixelWorks 164B.			
	Monitor-P.W.			FM23GA-3.3-00524	3122 357 00524		Only for new PixelWorks 164B.			
FM23/FM24	Monitor-EPLD basic			FM23GB-1.0-00023	3122 357 00283			FM23GB-2.4-00284	3122 357 00284	
	Monitor-EPLD basic			FM23GB-2.4-00284	3122 357 00284			FM23GB-2.9-00285	3122 357 00285	
	Monitor-EPLD basic			FM23GB-2.9-00285	3122 357 00285			FM23GB-3.2-00286	3122 357 00286	
	Monitor-EPLD basic			FM23GB-3.2-00286	3122 357 00286			FM23GB-3.7-00287	3122 357 00287	
	Monitor-EPLD basic			FM23GB-3.7-00287	3122 357 00287			FM23GB2400511	3122 357 00511	
	Monitor-EPLD basic			FM23GB-3.5-00511	3122 357 00511					
	Monitor-EPLD basic			FM23GB-3.6-00391	3104 317 00391					
	Monitor-EPLD enhanced			FM23GB-5.0-00401	3122 357 00401			FM23GB-5.1-00402	3122 357 00402	
	Monitor-EPLD enhanced			FM23GB-5.1-00403	3122 357 00402			FM23GB-5.2-00403	3122 357 00403	
FM23/FM24	Monitor-EPLD enhanced			FM23GB-5.2-00403	3122 357 00403			FM23GB-5.3-00404	3122 357 00404	
	Monitor-EPLD enhanced			FM23GB-5.3-00404	3122 357 00404			FM23GB-5.4-00405	3122 357 00405	
	Monitor-EPLD enhanced			FM23GB-5.4-00405	3122 357 00405			FM23GB-5.5-00406	3122 357 00406	
	Monitor-EPLD enhanced			FM23GB-5.5-00406	3122 357 00406			FM23GB-5.7-00407	3122 357 00407	
	Monitor-EPLD enhanced			FM23GB-5.7-00407	3122 357 00407			FM23GB2400501	3122 357 00501	
	Monitor-EPLD enhanced			FM23GB2400501	3122 357 00501					
	Monitor-EPLD enhanced			FM23GB-6.1-06381	3122 357 06381					
	Monitor-DDC 7904				3122 357 00301				3122 357 00311	
	Monitor-DDC 7907				3122 357 00311				3122 357 00371	
FM242	Monitor-OTC									
	Monitor-OTC			FM242G-1.1-00452	3122 357 00452		First release	FM242G-1.2-00453	3122 357 00453	
	Monitor-OTC			FM242G-1.2-00453	3122 357 00453			FM242G-1.3-00454	3122 357 00454	
FTL3E/A	UP			TL13EU 1.0_05061	3104 317 05061					
	UP			TL13EU 1.1_05071	3104 317 05071		EPLD version displayed in SAM	TL13EU 1.1_05071	3104 317 05071	
	UP			TL13EU 1.2_05231	3104 317 05231			TL13EU 1.2_05231	3104 317 05231	
	UP			TL13EU 1.3_05241	3104 317 05241			TL13EU 1.3_05241	3104 317 05241	
	UP			TL13EU 1.4_05271	3104 317 05271		Solved: Correct size of OSD_virgin menu refresh problem	TL13EU 1.4_05371	3104 317 05371	
	AG 01			TL13EU 1.7_05731	3104 317 05731		Solved: Outliner issue for AP	TL13EU 1.7_05731	3104 317 05731	
	UP			TL13EU 1.7_05731	3104 317 05731		Solved: Outliner issue for AP	TL13EU 1.9_05751	3104 317 05751	
	UP			TL13EU 1.8_05741	3104 317 05741		Only for AP: Solved: SCART2 removed from menu.	TL13EU 1.A_05911	3104 317 05911	
	UP			TL13EU 1.9_05751	3104 317 05751		Solved: Black bar during start-up.	TL13EU 1.B_06181	3104 317 06181	
	UP			TL13EU 1.A_05911	3104 317 05911		Only for AP: Solved: Black bar during start-up.	TL13EU 1.B_06181	3104 317 06181	
	UP			TL13EU 1.B_06181	3104 317 06181		Macrovision solution on externals (together with SSB pwb. 6)	TL13EU 1.C_06211	3104 317 06211	
	UP			TL13EU 1.C_06211	3104 317 06211					
	UP			TL13EU 2.0_06771	3104 317 06771		Only for India: Solved: Sound interruptions with overmodulated signals (service solution).			
	FTL13U	UP			TL13US 1.1_05091	3104 317 05091			TL13US 1.1_05091	3104 317 05091
		UP	AG A		TL13US 1.3_05561	3104 317 05561		Solved: Black bar during start-up.	TL13US 1.3_05561	3104 317 05561
UP		AG B		TL13US 1.4_05571	3104 317 05571		Suitable for LATAM sets via option codes, option code 4 for tuner TEDE9 is changed from 00008 into 00000	TL13US 1.4_05571	3104 317 05571	
FTL13U	UP		AG XB for Latam and AG xC for US	TL13US 1.5_05791	3104 317 05791		Suitable for LATAM sets via option codes, option code 4 for tuner TEDE9 is changed from 00008 into 00000	TL13US 1.5_05791	3104 317 05791	
FTL13U	UP			TL13US 1.6_06191	3104 317 06191		Solved: Portuguese translation errors and some ITV issues.			
	UP			TL13US 2.0_06541	3104 317 06541					
	UP									
FTL3E/AU	FBX			REIF2_FTV_INT_04	3104 317 45331			REIF2_FTV_INT_05	3104 317 45441	
FTL3E/AU	FBX			REIF2_FTV_INT_05	3104 317 45331			REIF2_FTV_INT_06	3104 317 45521	
FTL3E/AU	FBX			REIF2_FTV_INT_06	3104 317 45521					
FTL13E/A	DDC (VGA)			LC030_EUR_XGA	3104 317 05161					
FTL13U	DDC (DVI)			LC030-US	3104 317 05171		First release			
FTL3E/AU	EPLD (Cyclone)			R_CYCLONE_30LCD_E_01	3104 317 05181		First release	R_CYCLONE_30LCD_E_02	3104 317 05281	
	EPLD (Cyclone)			R_CYCLONE_30LCD_E_02	3104 317 05281		Solved: Horizontal lines in vertical colour transients	R_CYCLONE_30LCD_E_03	3104 317 05341	
	EPLD (Cyclone)			R_CYCLONE_30LCD_E_03	3104 317 05341		Solved: Macro vision detection implemented for 2H/3H inputs, contrast reserve measurement excludes subtitles to avoid jumpb.	R_CYCLONE_30LCD_E_04	3104 317 05511	
FTL3E/AU	EPLD (Cyclone)			R_CYCLONE_30LCD_E_04	3104 317 05511		Solved: 2H pulse inverted to allow correct detection of macrovision, Australian 50Hz HD format (1080i letterboxed in 1152) is working correctly			
FTL2.1A	OTC			TX21AP_1.0_06141	3104 317 06141			TX21AP_1.1_06151	3104 317 06151	
	OTC			TX21AP_1.1_06151	3104 317 06151			TX21AP_1.2_07701	3104 317 07701	
	OTC			TX21AP_1.2_07701	3104 317 07701			TX21AP_2.0_09431		
	OTC			TX21AP_2.0_09431	3104 317 09431		Sound interruptions India due to overmodulated signals			
FTL2.1A	OTC			TX21AP_3.0_09521	3104 317 09521		Service solution: no picture or sound			
FTL2.1E	OTC			TX21EU 1.0_06121	3104 317 06121			TX21EU 1.1_06131	3104 317 06131	
	OTC			TX21EU 1.1_06131	3104 317 06131			TX21EU 1.2_06901	3104 317 06901	
	OTC			TX21EU 1.2_06901	3104 317 06901			TX21EU 1.3_06921	3104 317 06921	

Software Survey

SOFTWARE SURVEY									
CHASSIS	FAMILY	PRODUCTION CODE	UP TYPE/VERSION	IDENT	SERVICE CODE	HOTEL MODE ?	REMARKS TYPICAL FOR THIS SOFTWARE	REPLACED BY IDENT	SERVICE CODE
FTL2.1E	OTC			TX21EU 1.3 06921	3104 317 06921			TX21EU 1.4 07021	3104 317 07021
FTL2.1E	OTC			TX21EU 1.4 07021	3104 317 07021			TX21EU 1.5 07031	3104 317 07031
FTL2.1E	OTC			TX21EU 1.5 07031	3104 317 07031			TX21EU 1.6 07181	3104 317 07181
FTL2.1E	OTC			TX21EU 1.6 07181	3104 317 07181			TX21EU 2.0 07301	3104 317 07301
FTL2.1E	OTC			TX21EU 2.0 07301	3104 317 07301		Solved: YPbPr on 1080. Split picture when PC is connected.	TX21EU 2.1 07411	3104 317 07411
FTL2.1E	OTC			TX21EU 2.1 07411	3104 317 07411			TX21EU 2.2 07771	3139 317 07771
FTL2.1E	OTC			TX21EU 2.2 07771	3104 317 07771				
FTL2.1U	OTC			TX21US 1.0 06161	3104 317 06161			TX21US 1.1 06171	3104 317 06171
FTL2.1U	OTC			TX21US 1.1 06171	3104 317 06171			TX21US 1.2 07241	3104 317 07241
FTL2.1U	OTC			TX21US 1.2 07241	3104 317 07241			TX21US 1.3 07251	3104 317 07251
FTL2.1U	OTC			TX21US 1.3 07251	3104 317 07251			TX21US 1.4 07421	3104 317 07421
FTL2.1U	OTC			TX21US 1.4 07421	3104 317 07421			TX21US 1.5 07431	3104 317 07431
FTL2.1U	OTC			TX21US 1.5 07431	3104 317 07431			TX21US 1.6 07441	3104 317 07441
FTL2.1U	OTC			TX21US 1.6 07441	3104 317 07441			TX21US 1.7 07551	3104 317 07551
FTL2.1U	OTC			TX21US 1.7 07551	3104 317 07551			TX21US 1.8 07581	3104 317 07581
FTL2.1U	OTC			TX21US 1.8 07581	3104 317 07581			TX21US 1.9 07911	3104 317 07911
FTL2.1U	OTC			TX21US 1.9 07911	3104 317 07911				
FTL2.1E/AU	FBX (6V IC voltage)			REIC COL FTV INT01	3104 317 46561		First release	REIC COL FTV INT03	3104 317 47011
FTL2.1E/AU	FBX (6V IC voltage)		27C512	REIC COL FTV INT03	3104 317 47011			REIC COL FTV INT06	3104 317 47321
FTL2.1E/AU	FBX (6V IC voltage)		27C512	REIC COL FTV INT04	3104 317 47071			REIC COL FTV INT08	3104 317 47471
FTL2.1E/AU	FBX (6V IC voltage)		27C512	REIC COL FTV INT06	3104 317 47321			REIC COL FTV INT09	3104 317 47591
FTL2.1E/AU	FBX (6V IC voltage)		27C512	REIC COL FTV INT08	3104 317 47471			REIC COL FTV INT10	3104 317 47611
FTL2.1E/AU	FBX (6V IC voltage)		27C512	REIC COL FTV INT09	3104 317 47591		YPbPr on 1080		
FTL2.1E/AU	FBX (6V IC voltage)		27C512	REIC COL FTV INT10	3104 317 47611				
FTL2.1E/AU	FBX (3V3 IC voltage)		M27W512	REIC COL FTV INT04	3104 317 47311			REIC COL FTV INT09	3104 317 47601
FTL2.1E/AU	FBX (3V3 IC voltage)		M27W512	REIC COL FTV INT09	3104 317 47601			REIC COL FTV INT10	3104 317 47621
FTL2.1E/AU	FBX (3V3 IC voltage)		M27W512	REIC COL FTV INT10	3104 317 47621				
FTL2.1E/A	EPID 32/37/42* LCD 42/50* PDP SDI HD			R FTV 2004 76 29	3104 317 06941		First release	R FTV 2004 76 43	3104 317 07651
FTL2.1E/A	EPID 32/37/42* LCD 42/50* PDP SDI HD			R FTV 2004 76 43	3104 317 07651			R FTV 2004 76 45	3104 317 07721
FTL2.1E/A	EPID 32/37/42* LCD 42/50* PDP SDI HD			R FTV 2004 76 45	3104 317 07721			R FTV 2004 76 47	3104 317 07861
FTL2.1E/A	EPID 32/37/42* LCD 42/50* PDP SDI HD			R FTV 2004 76 47	3104 317 07861			R FTV 2004 76 49	3104 317 07961
FTL2.1E/A	EPID 32/37/42* LCD 42/50* PDP SDI HD			R FTV 2004 76 49	3104 317 07961				
FTL2.1E	EPID 37/42* PDP FHP			R FTV 2004 48 30	3104 317 06991		First release	R FTV 2004 48 31	3104 317 07541
FTL2.1E	EPID 37/42* PDP FHP			R FTV 2004 48 31	3104 317 07541			R FTV 2004 48 46	3104 317 07751
FTL2.1E	EPID 37/42* PDP FHP			R FTV 2004 48 46	3104 317 07751			R FTV 2004 48 47	3104 317 07871
FTL2.1E	EPID 37/42* PDP FHP			R FTV 2004 48 47	3104 317 07871			R FTV 2004 48 49	3104 317 09681
FTL2.1E	EPID 37/42* PDP FHP			R FTV 2004 48 49	3104 317 09681				
FTL2.1E/A	EPID 37/42* PDP SDI SD			R FTV 2004 32 45	3104 317 07731			R FTV 2004 32 47	3104 317 07881
FTL2.1E/A	EPID 37/42* PDP SDI SD			R FTV 2004 32 47	3104 317 07881			R FTV 2004 32 49	3104 317 09811
FTL2.1E/A	EPID 37/42* PDP SDI SD			R FTV 2004 32 49	3104 317 09811				
FTL2.1U	EPID 37/42* PDP FHP			R FTV 2004 48 30	3104 317 06991		First release	R FTV 2004 48 31	3104 317 07541
FTL2.1U	EPID 37/42* PDP FHP			R FTV 2004 48 31	3104 317 07541			R FTV 2004 48 46	3104 317 07751
FTL2.1U	EPID 37/42* PDP FHP			R FTV 2004 48 46	3104 317 07751			R FTV 2004 48 47	3104 317 07871
FTL2.1U	EPID 37/42* PDP FHP			R FTV 2004 48 47	3104 317 07871			R FTV 2004 48 49	3104 317 09681
FTL2.1U	EPID 37/42* PDP FHP			R FTV 2004 48 49	3104 317 09681				
FTL2.1U	EPID 32/37/42* LCD 42/50* PDP SDI HD			R FTV 2004 76 38	3104 317 06911		First release	R FTV 2004 76 40	3104 317 07041
FTL2.1U	EPID 32/37/42* LCD 42/50* PDP SDI HD			R FTV 2004 76 40	3104 317 07041			R FTV 2004 76 45	3104 317 07721
FTL2.1U	EPID 32/37/42* LCD 42/50* PDP SDI HD			R FTV 2004 76 45	3104 317 07721			R FTV 2004 76 47	3104 317 07861
FTL2.1U	EPID 32/37/42* LCD 42/50* PDP SDI HD			R FTV 2004 76 47	3104 317 07861			R FTV 2004 76 49	3104 317 09821
FTL2.1U	EPID 32/37/42* LCD 42/50* PDP SDI HD			R FTV 2004 76 49	3104 317 09821				
FTL2.1E	EDID EU			EDID EU	3104 317 06591		First release		
FTL2.1E	EDID			EDID US/AP	3104 317 06591		First release		
FTL2.1E	EDID			EDID US/AP	3104 317 06591		First release		
FTL2.1E	EDID			EDID EU no 3h	3104 317 06601			EDID US/AP no 3h	3104 317 06621
FTL2.1A/U	EDID			EDID US/AP no 3h	3104 317 06621				
FTL2.1A/U	EDID			EDID US/AP no 3h	3104 317 06621				
FTL2.2A	OTC			TX21AP 1.0 06141	3104 317 06141			TX21AP 1.1 06151	3104 317 06151
FTL2.2A	OTC			TX21AP 1.1 06151	3104 317 06151			TX21AP 1.2 07701	3104 317 07701
FTL2.2A	OTC			TX21AP 1.2 07701	3104 317 07701				
FTL2.2A	OTC			TX21AP 1.3 07761	3104 317 07761				
FTL2.2A	OTC			TX21AP 2.0 09431	3104 317 09431		Sound interruptions India due to overmodulated signals		
FTL2.2A	OTC			TX21AP 3.0 09521	3104 317 09521		Service solution: no picture or sound		
FTL2.2U	OTC			TX21US 1.0 06161	3104 317 06161			TX21US 1.1 06171	3104 317 06171
FTL2.2U	OTC			TX21US 1.1 06171	3104 317 06171			TX21US 1.2 07241	3104 317 07241
FTL2.2U	OTC			TX21US 1.2 07241	3104 317 07241			TX21US 1.3 07251	3104 317 07251
FTL2.2U	OTC			TX21US 1.3 07251	3104 317 07251			TX21US 1.4 07421	3104 317 07421
FTL2.2U	OTC			TX21US 1.4 07421	3104 317 07421			TX21US 1.5 07431	3104 317 07431
FTL2.2U	OTC			TX21US 1.5 07431	3104 317 07431			TX21US 1.6 07441	3104 317 07441
FTL2.2U	OTC			TX21US 1.6 07441	3104 317 07441			TX21US 1.7 07551	3104 317 07551
FTL2.2U	OTC			TX21US 1.7 07551	3104 317 07551			TX21US 1.8 07581	3104 317 07581
FTL2.2U	OTC			TX21US 1.8 07581	3104 317 07581			TX21US 1.9 07911	3104 317 07911
FTL2.2U	OTC			TX21US 1.9 07911	3104 317 07911				

Software Survey

SOFTWARE SURVEY									
CHASSIS	FAMILY	PRODUCTION CODE	UP TYPE/VERSION	IDENT	SERVICE CODE	HOTEL MODE ?	REMARKS TYPICAL FOR THIS SOFTWARE	REPLACED BY IDENT	SERVICE CODE
FTL2.2AU	FBX		27C512	REIC COL FTV INT01	3104 317 46651		First release	REIC COL FTV INT03	3104 317 47011
FTL2.2AU	FBX		27C512	REIC COL FTV INT03	3104 317 47011			REIC COL FTV INT04	3104 317 47071
FTL2.2AU	FBX		27C512	REIC COL FTV INT04	3104 317 47071			REIC COL FTV INT06	3104 317 47321
FTL2.2AU	FBX		27C512	REIC COL FTV INT06	3104 317 47321			REIC COL FTV INT08	3104 317 47471
FTL2.2AU	FBX		27C512	REIC COL FTV INT08	3104 317 47471			REIC COL FTV INT09	3104 317 47591
FTL2.2AU	FBX		27C512	REIC COL FTV INT09	3104 317 47591		YPbPr on 1080	REIC COL FTV INT10	3104 317 47611
FTL2.2AU	FBX		27C512	REIC COL FTV INT10	3104 317 47611				
FTL2.2AU	FBX		M27N512	REIC COL FTV INT04	3104 317 47311			REIC COL FTV INT09	3104 317 47601
FTL2.2AU	FBX		M27N512	REIC COL FTV INT09	3104 317 47601			REIC COL FTV INT10	3104 317 47621
FTL2.2AU	FBX		M27N512	REIC COL FTV INT10	3104 317 47621				
FTL2.2A	EPID 32/37/42" LCD 42/750" PDP SDI HD			R FTV 2004 76 29	3104 317 06941		First release	R FTV 2004 76 43	3104 317 07651
FTL2.2A	EPID 32/37/42" LCD 42/750" PDP SDI HD			R FTV 2004 76 43	3104 317 07651			R FTV 2004 76 45	3104 317 07721
FTL2.2A	EPID 32/37/42" LCD 42/750" PDP SDI HD			R FTV 2004 76 45	3104 317 07721			R FTV 2004 76 47	3104 317 07861
FTL2.2A	EPID 32/37/42" LCD 42/750" PDP SDI HD			R FTV 2004 76 47	3104 317 07861			R FTV 2004 76 49	3104 317 07981
FTL2.2A	EPID 32/37/42" LCD 42/750" PDP SDI HD			R FTV 2004 76 49	3104 317 07981				
FTL2.2U	EPID 32/37/42" LCD 42/750" PDP SDI HD			R FTV 2004 76 38	3104 317 06911		First release	R FTV 2004 76 40	3104 317 07041
FTL2.2U	EPID 32/37/42" LCD 42/750" PDP SDI HD			R FTV 2004 76 40	3104 317 07041			R FTV 2004 76 45	3104 317 07721
FTL2.2U	EPID 32/37/42" LCD 42/750" PDP SDI HD			R FTV 2004 76 45	3104 317 07721			R FTV 2004 76 47	3104 317 07861
FTL2.2U	EPID 32/37/42" LCD 42/750" PDP SDI HD			R FTV 2004 76 47	3104 317 07861			R FTV 2004 76 49	3104 317 07981
FTL2.2U	EPID 32/37/42" LCD 42/750" PDP SDI HD			R FTV 2004 76 49	3104 317 07981				
FTL2.2AU	DDC HDMI			EDID US/AP	3104 317 06611		First release		
FTL3.1E	Viper			TL31E 1.0 07281	3104 317 07281			TL31E 1.1 07291	3104 317 07291
FTL3.1E	Viper			TL31E 1.1 07291	3104 317 07291			TL31E 1.2 08161	3104 317 08161
FTL3.1E	Viper			TL31E 1.2 08161	3104 317 08161			TL31E 1.3 08171	3104 317 08171
FTL3.1E	Viper			TL31E 1.3 08171	3104 317 08171				
FTL3.1E	Standby	Start production	P89C557E4EFB01	SBY PROC 3.0 (003.000)	3104 317 07391		Start production	SBY PROC 3.1	3104 317 07391
FTL3.1E	Standby		P89C557E4EFB01	SBY PROC 3.1 (003.001)	3104 317 07391				
FTL3.1E	DDC HDMI			JAG ANA 2K4 V20	3104 317 06633				
FTP1.1E/A	UP	Start production		TP11EU 1.2 05761	3104 317 05761			TP11EU 1.3 05811	3104 317 05811
FTP1.1E/A	UP			TP11EU 1.3 05811	3104 317 05811			TP11EU 1.4 05821	3104 317 05821
FTP1.1E/A	UP	From week 0350		TP11EU 1.4 05821	3104 317 05821		DW/TXT function added	TP11EU 1.5 05871	3104 317 05871
FTP1.1E/A	UP			TP11EU 1.5 05871	3104 317 05871			TP11EU 1.6 05921	3104 317 05921
FTP1.1E/A	UP			TP11EU 1.6 05921	3104 317 05921		Sound interruptions India due to overmodulated signals		
FTP1.1E/A	UP			TP11EU 2.0 08821	3104 317 08821				
FTP1.1U	UP			TP11US 1.0 05411	3104 317 05411		First release		
FTP1.1E/AU	FBX	Start production		REF12 FTV INT 06	3104 317 45521				
FTP1.1U	DDC (DVI)			PDP30-US	3104 317 05651				
FTP1.1E/AU	EPID (Cyclone)			PDP42 E 02	3104 317 05801		First release	PDP42 E 03	3104 317 05881
FTP1.1E/AU	EPID (Cyclone)			PDP42 E 03	3104 317 05891				
FTL2.1E/AU/L	Amiblight			AMB INV V0.7	3104 317 09401		First release		
FTP2.2A	OTC			TX21AP 1.0 06141	3104 317 06141			TX21AP 1.1 06151	3104 317 06151
FTP2.2A	OTC			TX21AP 1.1 06151	3104 317 06151			TX21AP 1.2 07701	3104 317 07701
FTP2.2A	OTC			TX21AP 1.2 07701	3104 317 07701				
FTP2.2A	OTC			TX21AP 1.3 07761	3104 317 07761				
FTP2.2A	OTC			TX21AP 2.0 09431	3104 317 09431		Service solution: Sound interruptions India due to overmodulated signals		
FTP2.2A	OTC			TX21AP 3.0 09521	3104 317 09521		Service solution: no picture or sound		
FTP2.2E	OTC			TX21EU 1.0 06121	3104 317 06121			TX21EU 1.1 06131	3104 317 06131
FTP2.2E	OTC			TX21EU 1.1 06131	3104 317 06131			TX21EU 1.2 06901	3104 317 06901
FTP2.2E	OTC			TX21EU 1.2 06901	3104 317 06901			TX21EU 1.3 06921	3104 317 06921
FTP2.2E	OTC			TX21EU 1.3 06921	3104 317 06921			TX21EU 1.4 07021	3104 317 07021
FTP2.2E	OTC			TX21EU 1.4 07021	3104 317 07021			TX21EU 1.5 07031	3104 317 07031
FTP2.2E	OTC			TX21EU 1.5 07031	3104 317 07031			TX21EU 1.6 07181	3104 317 07181
FTP2.2E	OTC			TX21EU 1.6 07181	3104 317 07181			TX21EU 2.0 07301	3104 317 07301
FTP2.2E	OTC			TX21EU 2.0 07301	3104 317 07301		Solved: YPbPr on 1080. Split picture when PC is connected.	TX21EU 2.1 07411	3104 317 07411
FTP2.2E	OTC			TX21EU 2.1 07411	3104 317 07411				
FTP2.2E	OTC			TX21EU 2.2 07771	3104 317 07771				
FTP2.2U	OTC			TX21US 1.0 06161	3104 317 06161			TX21US 1.1 06171	3104 317 06171
FTP2.2U	OTC			TX21US 1.1 06171	3104 317 06171			TX21US 1.2 07241	3104 317 07241
FTP2.2U	OTC			TX21US 1.2 07241	3104 317 07241			TX21US 1.3 07251	3104 317 07251
FTP2.2U	OTC			TX21US 1.3 07251	3104 317 07251			TX21US 1.4 07421	3104 317 07421
FTP2.2U	OTC			TX21US 1.4 07421	3104 317 07421			TX21US 1.5 07431	3104 317 07431
FTP2.2U	OTC			TX21US 1.5 07431	3104 317 07431			TX21US 1.6 07441	3104 317 07441
FTP2.2U	OTC			TX21US 1.6 07441	3104 317 07441			TX21US 1.7 07551	3104 317 07551
FTP2.2U	OTC			TX21US 1.7 07551	3104 317 07551			TX21US 1.8 07581	3104 317 07581
FTP2.2U	OTC			TX21US 1.8 07581	3104 317 07581			TX21US 1.9 07911	3104 317 07911
FTP2.2U	OTC			TX21US 1.9 07911	3104 317 07911				

Software Survey

SOFTWARE SURVEY										REPLACED BY	
CHASSIS	FAMILY	PRODUCTION CODE	UP TYPE/VERSION	IDENT	SERVICE CODE	HOTEL MODE ?	REMARKS TYPICAL FOR THIS SOFTWARE	IDENT	SERVICE CODE		
FTP2.2E/AU	FBX		27C512	REIC COL FTV INT01	3104 317 46651		First release	REIC COL FTV INT03	3104 317 47011		
FTP2.2E/AU	FBX		27C512	REIC COL FTV INT03	3104 317 47011			REIC COL FTV INT04	3104 317 47011		
FTP2.2E/AU	FBX		27C512	REIC COL FTV INT04	3104 317 47071			REIC COL FTV INT06	3104 317 47321		
FTP2.2E/AU	FBX		27C512	REIC COL FTV INT06	3104 317 47321			REIC COL FTV INT08	3104 317 47471		
FTP2.2E/AU	FBX		27C512	REIC COL FTV INT08	3104 317 47471			REIC COL FTV INT09	3104 317 47591		
FTP2.2E/AU	FBX		27C512	REIC COL FTV INT09	3104 317 47591		YPBPr on 1080	REIC COL FTV INT10	3104 317 47611		
FTP2.2E/AU	FBX			REIC COL FTV INT10	3104 317 47611						
FTP2.2E/AU	FBX		M27W512	REIC COL FTV INT04	3104 317 47311			REIC COL FTV INT09	3104 317 47801		
FTP2.2E/AU	FBX		M27W512	REIC COL FTV INT09	3104 317 47801			REIC COL FTV INT10	3104 317 47821		
FTP2.2E/AU	FBX		M27W512	REIC COL FTV INT10	3104 317 47621						
FTP2.2E/A	EPID 32/37/42* LCD 42*/50* PDP SDI HD			R FTV 2004 76 29	3104 317 06941		First release	R FTV 2004 76 43	3104 317 07851		
FTP2.2E/A	EPID 32/37/42* LCD 42*/50* PDP SDI HD			R FTV 2004 76 43	3104 317 07851			R FTV 2004 76 46	3104 317 07971		
FTP2.2E/A	EPID 32/37/42* LCD 42*/50* PDP SDI HD			R FTV 2004 76 45	3104 317 07721			R FTV 2004 76 47	3104 317 07981		
FTP2.2E/A	EPID 32/37/42* LCD 42*/50* PDP SDI HD			R FTV 2004 76 47	3104 317 07861			R FTV 2004 76 49	3104 317 09821		
FTP2.2E/A	EPID 32/37/42* LCD 42*/50* PDP SDI HD			R FTV 2004 76 49	3104 317 09821						
FTP2.2E	EPID 37/42* PDP FHP			R FTV 2004 48 30	3104 317 06991		First release	R FTV 2004 48 31	3104 317 07541		
FTP2.2E	EPID 37/42* PDP FHP			R FTV 2004 48 31	3104 317 07541			R FTV 2004 48 46	3104 317 07751		
FTP2.2E	EPID 37/42* PDP FHP			R FTV 2004 48 46	3104 317 07751			R FTV 2004 48 47	3104 317 07871		
FTP2.2E	EPID 37/42* PDP FHP			R FTV 2004 48 47	3104 317 07871			R FTV 2004 48 49	3104 317 09881		
FTP2.2E	EPID 37/42* PDP FHP			R FTV 2004 48 49	3104 317 09881						
FTP2.2E/A	EPID 37/42* PDP SDI SD			R FTV 2004 32 45	3104 317 07731			R FTV 2004 32 47	3104 317 07881		
FTP2.2E/A	EPID 37/42* PDP SDI SD			R FTV 2004 32 47	3104 317 07881			R FTV 2004 32 49	3104 317 09811		
FTP2.2E/A	EPID 37/42* PDP SDI SD			R FTV 2004 32 49	3104 317 09811						
FTP2.2U	EPID 37/42* PDP FHP			R FTV 2004 48 30	3104 317 06991		First release	R FTV 2004 48 31	3104 317 07541		
FTP2.2U	EPID 37/42* PDP FHP			R FTV 2004 48 31	3104 317 07541			R FTV 2004 48 46	3104 317 07751		
FTP2.2U	EPID 37/42* PDP FHP			R FTV 2004 48 46	3104 317 07751			R FTV 2004 48 47	3104 317 07871		
FTP2.2U	EPID 37/42* PDP FHP			R FTV 2004 48 47	3104 317 07871			R FTV 2004 48 49	3104 317 09881		
FTP2.2U	EPID 37/42* PDP FHP			R FTV 2004 48 49	3104 317 09881						
FTP2.2U	EPID 32/37/42* LCD 42*/50* PDP SDI HD			R FTV 2004 76 38	3104 317 06911		First release	R FTV 2004 76 40	3104 317 07041		
FTP2.2U	EPID 32/37/42* LCD 42*/50* PDP SDI HD			R FTV 2004 76 40	3104 317 07041			R FTV 2004 76 45	3104 317 07721		
FTP2.2U	EPID 32/37/42* LCD 42*/50* PDP SDI HD			R FTV 2004 76 45	3104 317 07721			R FTV 2004 76 47	3104 317 07861		
FTP2.2U	EPID 32/37/42* LCD 42*/50* PDP SDI HD			R FTV 2004 76 47	3104 317 07861			R FTV 2004 76 49	3104 317 09821		
FTP2.2U	EPID 32/37/42* LCD 42*/50* PDP SDI HD			R FTV 2004 76 49	3104 317 09821						
FTP2.2E	EDID			EDID EU			First release				
FTP2.2E	EDID			EDID US/AP	3104 317 06591		First release				
FTP2.2E	EDID			EDID US/AP	3104 317 06611		First release				
FTP2.2E	EDID			EDID EU no 3fh	3104 317 06601		First release				
FTP2.2A/U	EDID			EDID US/AP no 3fh	3104 317 06621			EDID US/AP no 3fh	3104 317 06621		
FTP2.2A/U	EDID			EDID US/AP no 3fh	3104 317 06622						
FTP2.2E/A/U/L	Anbright			AMBI INV_V0.7	3104 317 09401		First release				
FTV1.9DE	Monitor	Start production	EPC1441 PC8	F19DW2.0_00071	3122 357 40021	No	PDP-Limesco position 7357	F19DW2.0_00074	3122 357 40024		
FTV1.9DE	Monitor	AG02 and higher	EPC1441 PC8	F19DW2.0_00072	3122 357 40022	No	PDP-Limesco position 7357	F19DW2.0_00074	3122 357 40024		
FTV1.9DE	Monitor	AG02 and higher, week 9948 and higher	EPC1441 PC8	F19DW2.0_00074	3122 357 40024	No	PDP-Limesco position 7357, introduction Y/C panel - not in TV configuration	F19DW2.0_00075	3122 357 40025		
FTV1.9DE	Monitor	AG06 and higher, week 0018 and higher	EPC1441 PC8	F19DG11.0_00131	3122 357 40081	No	PDP-Limesco position 7357 - only in TV-configuration				
FTV1.9DE	Monitor	AG06 and higher, week 0018 and higher	EPC1441 PC8	F19DW2.0_00075	3122 357 40025	No	PDP-Limesco position 7357 - introduction SW for Monitor- & TV-configuration				
FTV1.9DE	Monitor	Start production	PC87C695AER/C1	F19DE11.1_00062	3122 357 40042	No	MUP Panel .1 version - position 7001	F19DE12.0_00063	3122 357 40043		
FTV1.9DE	Monitor	AG02 and higher, week 9948 and higher	PC87C695AER/C1	F19DE12.0_00063	3122 357 40043	No	MUP Panel .2 version - position 3018 added - to be used with PDP-OTP 3122 357 40024	F19DE12.1_00064	3122 357 40044		
FTV1.9DE	Monitor	From week 9950 and higher	PC87C695AER/C1	F19DE12.1_00064	3122 357 40044	No	Only for monitors - to be used with PDP OTP 3122 357 40024, improvement of VCR jitter with NTSC	F19DE12.1_00065	3122 357 40045		
FTV1.9DE	Monitor	AG06 and higher, week 0018 and higher	PC87C695AER/C1	F19DE12.1_00065	3122 357 40045	No	Introduction SW for Monitor- & TV-config, SW withoptionnumbers for Y/C board and sound enable available	F19DE14.0_00066	3122 357 40046		
FTV1.9DE	Monitor	AG07 and higher, week 0027 and higher	PC87C695AER/C1	F19DE14.0_00066	3122 357 40046	No	Update for Marantz & 16:9 aspect ratio				
FTV1.9DE	Monitor	AG07 and higher, week	PC87C695AER/C1	F19DE15.0_00068	3122 357 40048	No					
FTV1.9DE	Monitor		PC87C695AER/C1	F19DE15.0_00068	3122 357 40048	No					
FTV1.9DE	Monitor		PC87C695AER/C1	F19DE15.0_00411	9965 000 14396	No	Service solution: L2.5 is switched off				
FTV1.9DE	Monitor	Production start (9935)	M24C16-BN6	EAROM_00091	3122 357 40051	No	AVC position 7400	EAROM_00092	3122 357 40052		
FTV1.9DE	Monitor	From week 9948	M24C16-BN6	EAROM_00092	3122 357 40052	No	AVC position 7400 - AG02 code - introduction Y/C panel	EAROM_00095	3122 357 40055		
FTV1.9DE	Monitor	From week 0018	M24C16-BN6	EAROM_00095	3122 357 40055	No	AVC position 7400 - AG06 code - introduction SW for Monitor- & TV-config.				
FTV1.9EE	E-Box, FBX4		87C654-4B44	FBX4 V1.5	3104 317 01211	No		FTV1.9_00112	3122 357 40062		
FTV1.9EE	E-Box, FBX6		M27C512-90-C1	FTV1.9_00111	3122 357 40061	No		FTV1.9_00112	3122 357 40062		
FTV1.9EE	E-Box, FBX6		M27C512-90-C1	FTV1.9_00112	3122 357 40062	No					
FTV1.9EE	E-Box/FBX4 - West Europe	Start production	M27C801-100F1	F19EE11.2_00052	3122 357 40032	No		F19EE11.3_00054	3122 357 40034		

Software Survey

SOFTWARE SURVEY										REPLACED BY		
CHASSIS	FAMILY	PRODUCTION CODE	UP TYPE/VERSION	IDENT	SERVICE CODE	HOTEL MODE ?	REMARKS TYPICAL FOR THIS SOFTWARE			IDENT		SERVICE CODE
FTVL9EE	E-Box/FBX4 - West Europe		M27C801-100F1	F19EE11.2_00053	3122 357 40033	No				F19EE11.3_00054		3122 357 40034
FTVL9EE	E-Box/FBX4 - West Europe	AG01 and higher, week 9948 and higher.	M27C801-100F1	F19EE11.3_00054	3122 357 40034	No	Solved switching problem between ZCS and NICAM			F19EEA0_00055		3122 357 40035
FTVL9EE	E-Box/FBX6 - West Europe		M27C801-100F1	F19EEA0_00055	3122 357 40035	No	SSP position 7202 - /12S /19S /58S					
FTVL9EE	E-Box/FBX6 - East Europe		M27C801-100F1	F19EC4.1_00201	3122 357 40111	No	SSP position 7202 - /68S					
FTVL9EE	E-Box - USA		M27C801-100F1	F19EE4.1_00211	3122 357 40121	No	SSP position 7202 - /12S & /19S					
FTVL9EE	E-Box - USA		M27C801-100F1	F19EU12.0_00141	3122 357 40071	No	To be used in combination with monitor software from AG06			F19EU12.1_00143		3122 357 40073
FTVL9EE	E-Box - USA		M27C801-100F1	F19EU12.0_00142	3122 357 40072	No	To be used in combination with monitor software from AG06			F19EU12.1_00143		3122 357 40073
FTVL9EE	E-Box - USA	AG03 and higher, week 0022 and higher.	M27C801-100F1	F19EU12.1_00143	3122 357 40073	No	To be used in combination with monitor software from AG06 - unwanted sound multipl solved			F19EU14.1_00144		3122 357 40074
FTVL9EE	E-Box - AP	Week 0040 and higher	M27C801-100F1	F19EU14.1_00144	3122 357 40074	No						
FTVL9EE	E-Box - AP		M27C801-100F1	F19EA13.0_00163	3122 357 40093	No				F19EA14.1_00163		3122 357 40093
FTVL9EE	E-Box - Naranitz		M27C801-100F1	F19EA14.1_00163	3122 357 40093	No						
FTVL9EE	E-Box - Naranitz		M27C801-100F1	F19EM14.1_00181	3122 357 40101	No				F19EM14.1_00182		3122 357 40102
FTVL9EE	E-Box - Naranitz		M27C801-100F1	F19EM14.1_00182	3122 357 40102	No						
L01.1A	717, /67, NTSC, text	Wk146	TDA9588H/N1/30408	TDA9588_L01AC11.5	9352 694 11557					TDA9588_L01AC11.9		9352 716 28557
L01.1A	717, /67, NTSC, text	Wk217	TDA9588H/N1/304835	TDA9588_L01AC11.9	9352 716 28557							-
L01.1A	/67, /74, multi	Wk127	TDA9586H/N1/30401	TDA9586_L01AN21.0	9352 694 03557							
L01.1A	/67, /74, multi	Wk146	TDA9586H/N1/304827	TDA9586_L01AN22.2	9352 707 03557					TDA9586_L01AN22.2		9352 707 03557
L01.1A	/67, /74, multi	Wk245	TDA9586H/N1/304829	TDA9586_L01AN22.7	9352 716 31557					TDA9586_L01AN22.7		9352 716 31557
L01.1A												-
L01.1A		Wk336	TDA9586H/N1/311090	TDA9586_L01AN41.4	9352 730 05557							-
L01.1A		Wk336	TDA9586H/N1/311096	TDA9586_L01AN51.8	9352 730 07557							-
L01.1A	/57, /68, /69, /73, /79, multi, 10p text		TDA9566H/N1/4									
L01.1A	/57, /68, /69, /73, /79, multi, 10p text	Wk125	TDA9566H/N1/40378	TDA9565_L01AT11.3	9352 685 11557					TDA9565_L01AT11.6		9352 693 77557
L01.1A	/57, /68, /69, /73, /79, multi, 10p text	Wk146	TDA9566H/N1/40631	TDA9565_L01AT11.6	9352 693 77557					TDA9565_L01AT12.4		9352 707 07557
L01.1A	/57, /68, /69, /73, /79, multi, 10p text	Wk245	TDA9566H/N1/40631	TDA9565_L01AT12.4	9352 707 07557					TDA9565_L01AT12.9		9352 715 99557
L01.1A				TDA9565_L01AT12.9	9352 715 99557							-
L01.1A	Multipl East - 10 Page Text											
L01.1A	/56, /65, multi, 10p text	Wk127	TDA9565H/N1/40379	TDA9565_L01AT21.0	9352 685 11557					TDA9565_L01AT21.2		9352 693 78557
L01.1A	/56, /65, multi, 10p text	Wk146	TDA9565H/N1/40634	TDA9565_L01AT21.4	9352 693 78557					TDA9565_L01AT22.4		9352 707 10557
L01.1A	/56, /65, multi, 10p text	Wk245	TDA9565H/N1/40804	TDA9565_L01AT22.8	9352 716 31557					TDA9565_L01AT22.8		9352 716 31557
L01.1A		Wk336	TDA9555H/N1/311098	TDA9555_L01AT51.6	9352 730 09557							-
L01.1A		Wk336	TDA9552H/N1/311099	TDA9552_L01AT51.6	9352 730 10557							-
L01.1L		Wk209	TDA9570H/N1/A/0646	TDA9570_L01LN11.2	9352 707 65557							-
L01.1L		Wk???	TDA9570H/N1/A/0814	TDA9570_L01LN11.4	9352 716 10557							-
L01.1L		Wk112	TDA9583H/N1/30399	TDA9583_L01LS11.3	9352 694 01557							-
L01.1L		Wk128	TDA9583H/N1/30391	TDA9583_L01LS11.4	9352 700 41557							-
L01.1L		Wk139	TDA9583H/N1/30575	TDA9583_L01LS12.0	9352 704 24557							-
L01.1L		Wk229	TDA9583H/N1/30827	TDA9583_L01LS12.2	9352 716 29557							-
L01.1L		Wk251	TDA9588H/N1/311013	TDA9883_L01LS31.2	9352 725 54557							-
L01.1L		Wk314	TDA9583H/N1/31164	TDA9883_L01LS31.3	9352 733 64557							-
L01.1L		Wk327	TDA9583H/N1/31225	TDA9883_L01LS31.6	9352 738 28557							-
L01.1L		Wk332	TDA9583H/N1/31297	TDA9583_L01LS17	9352 742 89557							-
L01.1L		Wk251	TDA9599H/N1/411011	TDA9599_L01LS41.3	9352 725 52557							-
L01.1L		Wk315	TDA9599H/N1/411165	TDA9599_L01LS41.4	9352 733 65557							-
L01.1L		Wk315	TDA9599H/N1/411224	TDA9599_L01LS41.8	9352 738 24557							-
L01.1L		Wk248	TDA9570H/N1/A/1012	TDA9570_L01LS51.0	9352 725 53557							-
L01.1L		Wk331	TDA9569H/N1/411313	TDA9569_L01LUD11.4	9352 743 94557							-
L01.1L		Wk108	TDA9587H/N1/30363	TDA9587_L01LUM01.1	9352 692 52557							-
L01.1L		Wk128	TDA9587H/N1/30480	TDA9587_L01LUM01.3	9352 698 86557							-
L01.1L		Wk214	TDA9577H/N1/A/0641	TDA9577_L01LUN???	9352 707 69557							-
L01.1L		Wk217	TDA9577H/N1/A/0813	TDA9577_L01LUN21.5	9352 716 14557							-
L01.1L		Wk239	TDA9588H/N1/30989	TDA9588_L01LUN41.1	9352 725 49557							-
L01.1L		Wk249	TDA9588H/N1/311053	TDA9588_L01LUN41.2	9352 729 49557							-
L01.1L		Wk315	TDA9588H/N1/311129	TDA9588_L01LUN41.5	9352 731 49557							-
L01.1L		Wk238	TDA9577H/N1/A/0901	TDA9577_L01LUN1.0	9352 725 49557							-
L01.1L		Wk248	TDA9577H/N1/A/1067	TDA9577_L01LUN1.2	9352 728 41557							-
L01.1L		Wk315	TDA9577H/N1/A/1130	TDA9577_L01LUN1.5	9352 731 51557							-
L01.1L		Wk310	TDA9588H/N1/311133	TDA9588_L01LUN61.2	9352 731 54557							-
L01.1L		Wk121	TDA9588H/N1/30407	TDA9588_L01LSO1.7	9352 694 10557							-
L01.1L		Wk128	TDA9588H/N1/30485	TDA9588_L01LSO1.9	9352 699 91557							-

Software Survey

SOFTWARE SURVEY									
CHASSIS	FAMILY	PRODUCTION CODE	UP TYPE/VERSION	IDENT	SERVICE CODE	HOTEL MODE ?	REMARKS TYPICAL FOR THIS SOFTWARE	REPLACED BY IDENT	SERVICE CODE
L01.1U		Wk115	TD9588HNI130384	TD9588_LO1US11.8	9352 694 09557				-
L01.1U		Wk128	TD9588HNI130484	TD9588_LO1US12.0	9352 699 90557				-
L01.1U		Wk249		TD9577_LO1US21.0	9352 725 47557				-
L01.1U		Wk249		TD9588_LO1US21.0	9352 725 50557				-
L01.1U		Wk323		TD9588_LO1US21.2	9352 731 53557				-
L01.1U		Wk330		TD9588_LO1US21.3	9352 742 85557				-
L01.1U		Wk326		TD9588_LO1US31.1	9352 731 55557				-
L01.1U		Wk330		TD9588_LO1US31.3	9352 742 87557				-
L01.1U		Wk204		TD9588_LO1US41.4	9352 707 12557				-
L01.1U		Wk217		TD9588_LO1US41.7	9352 710 35557				-
L01.1U		Wk149		TD9588_LO1US22.2	9352 713 15557				-
L01.1U		Wk218		TD9588_LO1US51.3	9352 716 34557				-
L01.2A	711, PALINTSC	Wk146	TD9580HNI130388	TD9580_LO1AC11.5	9352 693 90557			TD9580_LO1AC11.9	9352 716 23557
L01.2A	711, PALINTSC	Wk217	TD9580HNI130822	TD9580_LO1AC11.9	9352 716 23557				-
L01.2A		Wk336		TD9580_LO1AC21.4	9352 730 12557				-
L01.2A		Wk125		TD9580_LO1AN11.7	9352 693 88557			TD9581_LO1AN12.2	9352 706 98557
L01.2A		Wk146		TD9580_LO1AN12.2	9352 706 98557			TD9581_LO1AN12.2	9352 706 98557
L01.2A		Wk 224		TD9580_LO1AN13.1	9352 716 21557			TD9581_LO1AN12.2	9352 706 98557
L01.2A		Wk125		TD9581_LO1AN11.7	9352 693 94557				-
L01.2A		Wk146		TD9581_LO1AN12.2	9352 706 98557			TD9581_LO1AN12.2	9352 706 98557
L01.2A		Wk245		TD9581_LO1AN13.1	9352 716 24557				-
L01.2A		Wk 125		TD9586_LO1AN11.7	9352 694 02557			TD9581_LO1AN12.2	9352 706 98557
L01.2A		Wk 146		TD9586_LO1AN12.2	9352 707 00557			TD9581_LO1AN12.2	9352 706 98557
L01.2A		Wk 224		TD9586_LO1AN13.1	9352 710 30557				-
L01.2A		Wk127		TD9581_LO1AN21.0	9352 693 94557			TD9581_LO1AN22.2	9352 707 01557
L01.2A		Wk146		TD9581_LO1AN22.2	9352 707 01557			TD9581_LO1AN22.7	9352 716 25557
L01.2A		Wk245		TD9581_LO1AN22.7	9352 716 25557				-
L01.2A		Wk127		TD9582_LO1AN21.0	9352 693 98557			TD9582_LO1AN22.2	9352 707 02557
L01.2A		Wk146		TD9582_LO1AN22.2	9352 707 02557			TD9582_LO1AN22.7	9352 716 27557
L01.2A		Wk245		TD9582_LO1AN22.7	9352 716 27557				-
L01.2A		Wk336		TD9582_LO1AN41.4	9352 730 06557				-
L01.2A		Wk336		TD9582_LO1AN51.8	9352 730 08557				-
L01.2A		Wk336		TD9570HNI1A1102	9352 730 14557				-
L01.2A	Middle East Pakistan, S. Africa, Zimbabwe - NWk146		TD9581HNI130429	TD9582_LO1AN92.2	9352 707 05557			TD9582_LO1AN92.7	9352 716 26557
L01.2A	Middle East Pakistan, S. Africa, Zimbabwe - NWk245		TD9581HNI130825	TD9582_LO1AN92.7	9352 710 20557				-
L01.2A	157, /68, /69, /78, PAUSECAMINTSC, 10p, 16p, Wk125		TD9561HNI140373	TD9561_LO1AT11.6	9352 693 85557			TD9561_LO1AT12.4	9352 707 37557
L01.2A	157, /68, /69, /78, PAUSECAMINTSC, 10p, 16p, Wk146		TD9561HNI140630	TD9561_LO1AT12.4	9352 707 37557			TD9561_LO1AT12.9	9352 715 97557
L01.2A	157, /68, /69, /78, PAUSECAMINTSC, 10p, 16p, Wk245		TD9561HNI140601	TD9561_LO1AT12.9	9352 715 97557				-
L01.2A	157, /68, /69, /79, PAUSECAMINTSC, 10p, 16p, Wk125		TD9567HNI140382	TD9567_LO1AT11.6	9352 693 81557			TD9567_LO1AT12.4	9352 707 08557
L01.2A	157, /68, /69, /79, PAUSECAMINTSC, 10p, 16p, Wk146		TD9567HNI140632	TD9567_LO1AT12.4	9352 707 08557			TD9567_LO1AT12.9	9352 716 05557
L01.2A	157, /68, /69, /79, PAUSECAMINTSC, 10p, 16p, Wk245		TD9567HNI140809	TD9567_LO1AT12.9	9352 716 05557				-
L01.2A	159, /65, PAUSECAMINTSC, 10p	Wk127	TD9561HNI140374	TD9561_LO1AT12.2	9352 693 69557			TD9561_LO1AT22.4	9352 707 09557
L01.2A	159, /65, PAUSECAMINTSC, 10p	Wk146	TD9561HNI140633	TD9561_LO1AT12.4	9352 707 09557			TD9561_LO1AT22.8	9352 715 98557
L01.2A	159, /65, PAUSECAMINTSC, 10p	Wk245	TD9561HNI140802	TD9561_LO1AT22.8	9352 715 98557				-
L01.2A	159, /65, PAUSECAMINTSC, 10p	Wk127	TD9567HNI140383	TD9567_LO1AT12.2	9352 699 82557			TD9567_LO1AT22.4	9352 707 11557
L01.2A	159, /65, PAUSECAMINTSC, 10p	Wk146	TD9567HNI140635	TD9567_LO1AT22.4	9352 707 11557			TD9567_LO1AT22.8	9352 716 04557
L01.2A	159, /65, PAUSECAMINTSC, 10p	Wk245	TD9567HNI140808	TD9567_LO1AT22.8	9352 716 04557				-
L01.2L		Wk210	TD9570HNI1A10815	TD9570_LO1M12.2	9352 707 65557				-
L01.2L			TD9570HNI1A10815	TD9570_LO1M12.2	9352 716 11557				-
L01.2L		Wk248	TD9570HNI1A1010	TD9570_LO1M12.0	9352 725 51557				-
L01.2L		Wk314	TD9570HNI1A1181	TD9570_LO1N21.1	9352 734 91557				-
L01.2L		Wk210	TD9570HNI1A10727	TD9570_LO1S21.2	9352 712 14557				-
L01.2L			TD9570HNI1A0816	TD9570_LO1S22.2	9352 716 12557				-
L01.2U		Wk331	TD9566HNI141314	TD9566_LO1UD11.4	9352 743 95557				-
L01.2U		Wk110	TD9587HNI130371	TD9587_LO1UM11.1	9352 693 54557				-
L01.2U		Wk115	TD9587HNI130417	TD9587_LO1UM11.3	9352 695 44557				-

Software Survey

SOFTWARE SURVEY									
CHASSIS	FAMILY	PRODUCTION CODE	UP TYPE/VERSION	IDENT	SERVICE CODE	HOTEL MODE ?	REMARKS TYPICAL FOR THIS SOFTWARE	REPLACED BY IDENT	SERVICE CODE
L01.2U		WK128	TD9587H/N1/30482	TD9587_L01UM11.5	9352 699 89557			-	-
L01.2U		WK211	TD9577H/N1/A0642	TD9577_L01UM21.2	9352 707 61557			-	-
L01.2U		WK218	TD9577H/N1/A0818	TD9577_L01UM21.5	9352 716 19557			-	-
L01.2U		WK120	TD9587H/N1/30440	TD9587_L01UNI1.7	9352 697 54557			-	-
L01.2U		WK128	TD9587H/N1/30483	TD9587_L01UNI1.9	9352 699 89557			-	-
L01.2U		WK211	TD9577H/N1/A0642	TD9577_L01UN31.2	9352 707 61557			-	-
L01.2U		WK218	TD9577H/N1/A0818	TD9577_L01UN31.5	9352 716 19557			-	-
L01.2U		WK310	TD9587H/N1/31136	TD9587_L01UN61.2	9352 731 64557			-	-
L01.2U		WK115	TD9587H/N1/30403	TD9587_L01US1.8	9352 694 05557			-	-
L01.2U		WK128	TD9587H/N1/30481	TD9587_L01US2.0	9352 699 87557			-	-
L01.2U		WK204	TD9587H/N1/30637	TD9577_L01US41.4	9352 707 13557			-	-
L01.2U		WK217	TD9587H/N1/30830	TD9577_L01US41.7	9352 716 32557			-	-
L01.2U		WK324	TD9587H/N1/31135	TD9588_L01US61.1	9352 731 63557			-	-
L01.XA		WK336	TD9583H/N1/31100	TD9552_L01AC21.4	9352 730 11557			-	-
L01.H.1A	TV, /67, /69, /79, /93, /94, PAL/SECAM/N1/3	WK145	TD9555H/N1/3	TD9555_L01HA11.4	9965 000 14523			-	-
L01.H.2A	/59, /69, /79, /93, /94, PAL/SECAM/N1/3	WK145	TD9552H/N1/3	TD9552_L01HA11.4	9965 000 14513			-	-
L01.1E	West Europe - 10 Page Text	WK120.2 or higher	TD9566H/N1/50381	TD9565_L01EF11.7	9352 693 76557			TD9565_L01EF11.9	9352 698 96557
L01.1E	West Europe - 10 Page Text	WK124.4 or higher	TD9566H/N1/50486	TD9565_L01EF11.9	9352 698 96557			-	-
L01.1E	West Europe - 10 Page Text	WK140.3 or higher	TD9566H/N1/50579	TD9565_L01EF12.2	9352 704 32557			TD9565_L01EF13.6	9352 716 01557
L01.1E	West Europe - 10 Page Text	WK221.1 or higher	TD9566H/N1/50648	TD9565_L01EF13.1	9352 716 01557		Main solved issues : NVM deprogramming. Erratic character in AV source.	TD9565_L01EF13.6	9352 716 01557
L01.1E	West Europe - 10 Page Text	WK223.4 or higher	TD9566H/N1/51124	TD9565_L01EF14.2	9352 731 19557		Used for LQC ES4 and linked to hardware modifications (CP62223).	TD9565_L01EF14.2	9352 740 99557
L01.1E	West Europe - 10 Page Text	WK329 or higher	TD9566H/N1/51260	TD9565_L01EF14.2	9352 740 99557		Solved: FM radio tuning problem	-	-
L01.1E	West Europe - 10 Page Text	WK339 or higher	TD9566H/N1/511378	TD9565_L01EF14.3	9352 750 75557		Solved: Sound issue with BPB bit setting	-	-
L01.1E	East Europe - 10 Page Text	WK120.2 or higher	TD9563H/N1/50377	TD9563_L01EF21.5	9352 693 76557			TD9563_L01EF21.7	9352 698 96557
L01.1E	East Europe - 10 Page Text	WK124.4 or higher	TD9563H/N1/50468	TD9563_L01EF21.7	9352 698 96557			-	-
L01.1E	East Europe - 10 Page Text	WK140.3 or higher	TD9563H/N1/50739	TD9563_L01EF22.2	9352 704 32557		Main solved issues : NVM deprogramming. Erratic character in AV source.	TD9565_L01EF23.6	9352 716 02557
L01.1E	East Europe - 10 Page Text	WK236 or higher	TD9566H/N1/51118	TD9565_L01EF23.6	9352 716 02557		Used for LQC ES4 and linked to hardware modifications (CP62223).	TD9565_L01EF24.2	9352 741 02557
L01.1E	East Europe - 10 Page Text	WK329 or higher	TD9566H/N1/51262	TD9565_L01EF24.2	9352 741 02557		Solved: FM radio tuning problem	-	-
L01.1E	East Europe - 10 Page Text	WK339 or higher	TD9566H/N1/511380	TD9565_L01EF24.3	9352 750 75557		Solved: Sound issue with BPB bit setting	-	-
L01.1E	West Europe - 1 Page Text	WK150 or higher	TD9555H/N1/30667	TD9555_L01ET01.1	9352 706 92557		Initial version	TD9555_L01ET51.5	9352 712 25557
L01.1E	East/West Europe - 1 Page Text	WK210 or higher	TD9555H/N1/30742	TD9555_L01ET51.5	9352 712 25557		This version replace both the L01ET01.1 and L01ET91.1 Main solved issue : NVM deprogramming. Erratic character in AV source	-	-
L01.1E	East/West Europe - 1 Page Text	WK220 or higher	TD9555H/N1/30800	TD9555_L01ET51.7	9352 715 96557		This version replace both the L01ET01.1 and L01ET91.1 Main solved issue : Flyback after cold warm start, removing of the non-QSS chassis driving.	TD9555_L01ET51.8	9352 725 45557
L01.1E	East/West Europe - 1 Page Text	WK220 or higher	TD9555H/N1/31016	TD9555_L01ET51.8	9352 725 45557		To drive -36 chassis, version L01ET51.5 must be used.	-	-
L01.1E	East/West Europe - 1 Page Text	WK323 or higher	TD9555H/N1/31124	TD9555_L01ET51.9	9352 731 21557		Does not solve the erratic character issue.	TD9555_L01ET52.0	9352 731 21557
L01.1E	East/West Europe - 1 Page Text	WK329 or higher	TD9555H/N1/31200	TD9555_L01ET52.0	9352 742 22557		Used for LQC ES4 and linked to hardware modifications (CP62223). Solved:	TD9555_L01ET52.1	9352 754 52557
L01.1E	East/West Europe - 1 Page Text	WK341 or higher	TD9555H/N1/31413	TD9555_L01ET52.1	9352 754 52557		Solved: smart sound and czech CL output without signal	-	-
L01.1E							Solved: Set BPB bit according QSS setting	-	-
L01.1E	West Europe	WK219 or higher	TD9566H/N1/50650	TD9565_L01ED11.6	9352 707 69557		Initial version	TD9565_L01ED11.8	9965 000 23230
L01.1E	West Europe	WK226 or higher	TD9566H/N1/51082	TD9565_L01ED11.7	9352 729 33557		Solved: Format not remembered if DVD mode is left, EHT delay, reloading of default values in SDAM. NVN corruption when auto store is interrupted after detecting more than 46 channels	TD9565_L01ED11.8	9965 000 23230
L01.1E	West Europe	WK343 or higher	TD9566H/N1	TD9565_L01ED11.8	9965 000 23230		Solves : TV goes in standby after pressing "TV guide" button	-	-
L01.1E	SD3.1 application software	WK246	AN291V600T1-90SC	Version 4.17.11-1	9965 000 16406			-	-
L01.1E	SD3.1 servo software	WK246	AN29F002T	Version 5.1.14	3104 123 85860			-	-
L01.1E	East Europe	WK226 or higher	TD9566H/N1/50922	TD9565_L01ED21.6	9352 721 74557		Initial version	TD9565_L01ED21.7	9352 729 32557
L01.1E	East Europe	WK248 or higher	TD9566H/N1/51081	TD9565_L01ED21.7	9352 729 32557			-	-
L01.1E	East Europe	WK342	TD9566H/N1/51	TD9565_L01ED21.8	9352 729 32557			-	-
L01.1E	SD3.1 application software	WK246	AN291V600T1-90SC	Version 4.17.11-1	9965 000 16406			-	-
L01.1E	SD3.1 servo software	WK246	AN29F002T	Version 5.1.14	3104 123 85860			-	-
L01.2E	West Europe - 10 Page Text	WK120.2 or higher	TD9566H/N1/50375	TD9566_L01EF11.7	9352 693 74557			TD9566_L01EF11.9	9352 698 97557
L01.2E	West Europe - 10 Page Text	WK124.4 or higher	TD9566H/N1/50487	TD9566_L01EF11.9	9352 698 97557			-	-
L01.2E	West Europe - 10 Page Text	WK140.3 or higher	TD9566H/N1/50578	TD9566_L01EF12.2	9352 704 31557			TD9567_L01EF13.6	9352 716 07557
L01.2E	West Europe - 10 Page Text	WK 221.1 or higher	TD9566H/N1/50651	TD9567_L01EF13.1	9352 707 70557		Main solved issues : NVM deprogramming. Erratic character in AV source.	-	-
L01.2E	West Europe - 10 Page Text	WK221.4 or higher	TD9567H/N1/50811	TD9567_L01EF13.6	9352 716 07557		German transition correction. Smart sound TV added	TD9567_L01EF14.2	9352 741 01557
L01.2E	West Europe - 10 Page Text	WK325 or higher	TD9567H/N1/51119	TD9567_L01EF14.1	9352 731 16557		Solved: Flyback after coldwarm start, RGB TX output adjustable, improvement	TD9567_L01EF14.3	9352 750 74557
L01.2E	West Europe - 10 Page Text	WK329 or higher	TD9567H/N1/51261	TD9567_L01EF14.2	9352 741 01557		Used for LQC ES4 and linked to hardware modifications (CP62223). Solved:	-	-
L01.2E	West Europe - 10 Page Text	WK339 or higher	TD9567H/N1/511379	TD9567_L01EF14.3	9352 750 74557		Solved: FM radio tuning problems	-	-
L01.2E	West Europe - 10 Page Text	WK339 or higher					Solved: sound issue with BPB bit setting	-	-

Software Survey

SOFTWARE SURVEY									
CHASSIS	FAMILY	PRODUCTION CODE	UP TYPE/VERSION	IDENT	SERVICE CODE	HOTEL MODE ?	REMARKS TYPICAL FOR THIS SOFTWARE	REPLACED BY IDENT	SERVICE CODE
L01.2E	West Europe - 10 Page Text	Wk120.2 or higher	TDA9567H/N1/5/0385	TDA9567_L01EF11.7	9352 693 87557			TDA9567_L01EF11.9	9352 698 95557
L01.2E	West Europe - 10 Page Text	Wk124.4 or higher	TDA9567H/N1/5/0465	TDA9567_L01EF11.9	9352 698 95557			-	-
L01.2E	West Europe - 10 Page Text	Wk140.3 or higher	TDA9567H/N1/5/0580	TDA9567_L01EF12.2	9352 704 33557		Main solved issues : NVM deprogramming. Erratic character in AV source, German translation correction. Smart sound TV added	-	9352 716 07557
L01.2E	West Europe - 10 Page Text	Wk 211.1 or higher	TDA9567H/N1/5/0651	TDA9567_L01EF13.1	9352 707 70557		Solved: Flyback after coldwarm start, RGB TXT output adjustable, improvement of TXT page acquisition, spatial function works if NVM locatio 13A = +80h	-	-
L01.2E	West Europe - 10 Page Text	Wk221.4 or higher	TDA9567H/N1/5/0811	TDA9567_L01EF13.6	9352 716 07557		Used for UOC ES4 and linked to hardware modifications (CP62223). Solved: Solved: FM radio tuning problems	TDA9567_L01EF14.2	9352 741 01557
L01.2E	West Europe - 10 Page Text	Wk325 or higher	TDA9567H/N1/5/1119	TDA9567_L01EF14.1	9352 731 16557		Solved: sound issue with BPP bit setting	TDA9567_L01EF14.3	9352 750 74557
L01.2E	West Europe - 10 Page Text	Wk329 or higher	TDA9567H/N1/5/1121	TDA9567_L01EF14.2	9352 741 01557			-	-
L01.2E	West Europe - 10 Page Text	Wk339 or higher	TDA9567H/N1/5/1379	TDA9567_L01EF14.3	9352 750 74557			-	-
L01.2E	East Europe - 10 Page Text	Wk120.2 or higher	TDA9561H/N1/0376	TDA9561_L01EF21.5	9352 693 75557			TDA9561_L01EF21.7	9352 698 99557
L01.2E	East Europe - 10 Page Text	Wk124.4 or higher	TDA9561H/N1/0469	TDA9561_L01EF21.7	9352 698 99557			TDA9561_L01EF22.2	9352 704 34557
L01.2E	East Europe - 10 Page Text	Wk140.3 or higher	TDA9561H/N1/0581	TDA9561_L01EF22.2	9352 704 34557			-	-
L01.2E	East Europe - 10 Page Text	Wk 211.1 or higher	TDA9567H/N1/0740	TDA9567_L01EF23.1	9352 712 23557		Main solved issues : NVM deprogramming. Erratic character in AV source, German translation correction. Smart sound TV added	TDA9567_L01EF23.6	9352 716 08557
L01.2E	East Europe - 10 Page Text	Wk 221.1 or higher	TDA9567H/N1/0812	TDA9567_L01EF23.6	9352 716 08557		Solved: Flyback after coldwarm start, RGB TXT output adjustable, improvement of TXT page acquisition, spatial function works if NVM locatio 13A = +80h	-	-
L01.2E	East Europe - 10 Page Text	Wk 325 or higher	TDA9567H/N1/5/1122	TDA9567_L01EF24.1	9352 731 16557		Used for UOC ES4 and linked to hardware modifications (CP62223). Solved: channel zapping problem due to the program ID issue	TDA9567_L01EF24.2	9352 741 03557
L01.2E	East Europe - 10 Page Text	Wk329 or higher	TDA9567H/N1/5/1263	TDA9567_L01EF24.2	9352 741 03557			TDA9567_L01EF24.3	9352 750 76557
L01.2E	East Europe - 10 Page Text	Wk339 or higher	TDA9567H/N1/5/1381	TDA9567_L01EF24.3	9352 750 76557			-	-
L01.2E	West/West Europe - 1 Page Text		TDA9552H/N1/3/0668	TDA9552_L01E101.1	9352 708 93557			TDA9552_L01E151.5	9352 712 24557
L01.2E	East/West Europe - 1 Page Text		TDA9552H/N1/3/0741	TDA9552_L01E151.5	9352 712 24557		This version replace both the L01E101.1 and L01E151.1 Main solved issues : NVM deprogramming, Erratic character in AV source	TDA9552_L01E151.7	9352 715 95557
L01.2E	East/West Europe - 1 Page Text		TDA9552H/N1/3/0799	TDA9552_L01E151.7	9352 715 95557		This version replace both the L01E101.1 and L01E151.5 must be used. To drive -50 chassis, version L01E151.5 must be used.	TDA9552_L01E151.8	9352 725 44557
L01.2E	East/West Europe - 1 Page Text		TDA9552H/N1/3/1015	TDA9552_L01E151.8	9352 725 44557		Solved issue: TV does not reset after channel change	TDA9552_L01E151.9	9352 731 19557
L01.2E	East/West Europe - 1 Page Text	Wk325 or higher	TDA9552H/N1/3/1123	TDA9552_L01E151.9	9352 731 19557		Used for UOC ES4 and linked to hardware modifications (CP62223). Solved: channel zapping problem due to the program ID issue	TDA9552_L01E152.0	9352 742 21557
L01.2E	East/West Europe - 1 Page Text	Wk329 or higher	TDA9552H/N1/3/1289	TDA9552_L01E152.0	9352 742 21557		Solved: smart sound and onch CL output without signal	TDA9552_L01E152.1	9352 754 53557
L01.2E	East/West Europe - 1 Page Text	Wk341 or higher	TDA9552H/N1/3/1414	TDA9552_L01E152.1	9352 754 53557		Solved: Set BPP bit according QSS setting	-	-
L01.1E	West Europe	Wk318	TDA9565H/N1/5/0722	TDA9565_L0DEFL1.0	?				
L01.1E	West Europe	Wk320	TDA9565H/N1/5/0722	TDA9565_L0DEFL1.1	?				
L01.1E	West Europe	Wk329	TDA9565H/N1/5/0722	TDA9565_L0DEFL1.2	9965 000 26547		Solved: virtual Dolby in radio mode, add return key for DVD		
L01.1E	East Europe	Wk318	TDA9565H/N1/5/0722	TDA9565_L0DEFL2.0	?				
L01.1E	East Europe	Wk320	TDA9565H/N1/5/0722	TDA9565_L0DEFL2.1	?				
L01.1E	East Europe	Wk329	TDA9565H/N1/5/0722	TDA9565_L0DEFL2.2	?		Solved: virtual Dolby in radio mode, add return key for DVD		
L01.1E	East Europe (21PT6818/59)	?	TDA9565H/N1/5/1439	TDA9565_L0DEFL2.128	9965 000 26548				
L01H.1A			TDA9555H/N1/3	L01HA1 1.4			OTP		
L01H.2A			TDA9555H/N1/3	L01HA1 1.4	9965 000 14513		OTP		
L01H.2A			TDA9555H/N1/3	L01HA1 1.9	9965 000 14513		OTP		
L01H.1E	EU	Wk234.1 or higher	TDA9555H/N1/3/0608	L01HE1 VER 1.0	9352 708 23557		No flyback line at start-up	L01HE1 VER 1.1	9352 722 11557
L01H.1E		Wk325 or higher	TDA9555H/N1/3/0930	L01HE1 VER 1.1	9352 722 11557		Used for UOC ES4 and linked to hardware modifications (CP62297).		
L01H.1E			TDA9555H/N1/3/1245	L01HE1 VER 1.2	9352 740 49557				
L01H.2E	EU	Wk234.1 or higher	TDA9555H/N1/3/0607	L01HE1 VER 1.0	9352 708 22557		No flyback line at start-up	L01HE1 VER 1.1	9352 722 10557
L01H.2E		Wk305 or higher	TDA9555H/N1/3/0929	L01HE1 VER 1.1	9352 722 10557		Used for UOC ES4 and linked to hardware modifications (CP62297).		
L01H.2E		Wk335 or higher	TDA9555H/N1/3/1244	L01HE1 VER 1.2	9352 740 42557		Solved: Mono radio search with UOC ES4.3		
L03U	L03SP		TDA9377PS/N2/A11450	L03UN11.1					
L03U	L03SP	Wk343	TDA9377PS/N2/A11372	TDA9377_L03US11.0	9352 748 89112				
L03U	L03SP	Wk350	TDA9377PS/N2/A11424	TDA9377_L03US21.1	9352 755 47112			TDA9377_L03IM11.3	9352 750 97112
L03L	L03SP	Wk315	TDA9377PS/N2/A1204	TDA9377_L03LM11.2	9352 737 37112			-	-
L03L	L03SP	Wk346	TDA9377PS/N2/A1385	TDA9377_L03LM11.3	9352 750 97112				
L03L	L03SP	Wk315	TDA9370PS/N2/A1205	TDA9370_L03LM11.2	9352 737 38112			TDA9370_L03IM11.3	9352 750 94112
L03L	L03SP	Wk346	TDA9370PS/N2/A1382	TDA9370_L03LM11.3	9352 750 94112			-	-
L03L	L03SP	Wk315	TDA9377PS/N2/A1207	TDA9377_L03LS11.3	9352 737 41112			TDA9377_L03LS11.7	9352 750 96112
L03L	L03SP	Wk327	TDA9377PS/N2/A1279	TDA9377_L03LS11.6	9352 741 93112			-	-
L03L	L03SP	Wk346	TDA9377PS/N2/A1384	TDA9377_L03LS11.7	9352 750 96112				
L03L	L03SP	Wk315	TDA9370PS/N2/A1206	TDA9370_L03LS11.3	9352 737 39112			TDA9370_L03LS11.7	9352 750 95112
L03L	L03SP	Wk327	TDA9370PS/N2/A1285	TDA9370_L03LS11.6	9352 741 94112			-	-
L03L	L03SP	Wk346	TDA9370PS/N2/A1383	TDA9370_L03LS11.7	9352 750 95112				
L04E	West Europe, Radio	Wk433 or higher	TDAL2020H/N1B11 TDAL2021H/N1B11	L4LEF1_1.6	3139 127 01142			L4LEF1_1.7	3139 127 01142

Software Survey

SOFTWARE SURVEY									
CHASSIS	FAMILY	PRODUCTION CODE	UP TYPE/VERSION	IDENT	SERVICE CODE	HOTEL MODE ?	REMARKS TYPICAL FOR THIS SOFTWARE	REPLACED BY IDENT	SERVICE CODE
L04E	West Europe, Radio	Wk441 or higher	TDA12020HJ/NIB11 TDA12021HJ/NIB11	L4LEF1_1.7	3139 127 01143		Solved: FM channel cannot be stored when performing manual store in Radio Mode. Background Brightness in Radio mode	-	-
L04E	East Europe, Radio	Wk433 or higher	TDA12020HJ/NIB11 TDA12021HJ/NIB11	L4LEF2_1.6	3139 127 01152			L4LEF2_1.6	3139 127 01153
L04E	East Europe, Radio	Wk441 or higher	TDA12020HJ/NIB11 TDA12021HJ/NIB11	L4LEF2_1.7	3139 127 01153		Solved FM channel cannot be stored when performing manual store in Radio Mode Background Brightness in Radio mode	-	-
L04E	West Europe, PIP	Wk426 or higher	TDA12020HJ/NIB11 TDA12021HJ/NIB11	L04EF3_1.7	3139 127 01161			L04EF3_1.8	3139 127 01162
L04E	West Europe, PIP	Wk441 or higher	TDA12020HJ/NIB11 TDA12021HJ/NIB11	L04EF3_1.8	3139 127 01162		Solved CR 223: solution to not cover the edge in 4:3 zoom format	-	-
L04E	East Europe, PIP	Wk426 or higher	TDA12020HJ/NIB11 TDA12021HJ/NIB11	L04EF4_1.7	3139 127 01171			L04EF4_1.8	3139 127 01172
L04E	East Europe, PIP	Wk441 or higher	TDA12020HJ/NIB11 TDA12021HJ/NIB11	L04EF4_1.8	3139 127 01172		Solved CR 223: solution to not cover the edge in 4:3 zoom format	-	-
L04E	West Europe (>21"), PIP	Wk414 or higher	TDA12020HJ/NIB11 TDA12021HJ/NIB11	L4LEF5_1.0	3139 127 01541				
L04E	East Europe (>21"), PIP	Wk414 or higher	TDA12020HJ/NIB11 TDA12021HJ/NIB11	L4LEF6_1.0	3139 127 01551				
L04E	East/West Europe	Wk426 or higher	TDA12020HJ/NIB11 TDA12021HJ/NIB11	L4LEF7_1.5	3139 127 01181		Solved Continuous Zoom of screen format 4.3 is remembered NR doesn't work when toggle LTI feature	L4LEF7_1.7	9965 000 2021.1
L04E	East/West Europe	Wk433 or higher	TDA12020HJ/NIB11 TDA12021HJ/NIB11	L04EF7_1.7	3139 127 01182		Solved Ncam mute (need new library) Ncam stereo detection incorrect XT favorit page n+1 not memorized character "v" displayed in the screen	L4LEF7_1.8	3139 127 01183
L04E	East/West Europe	Wk441 or higher	TDA12020HJ/NIB11 TDA12021HJ/NIB11	L04EF7_1.8	3139 127 01183		Solved Continuous Zoom of screen format 4.3 is remembered NR doesn't work when toggle LTI feature CR161: ICON UI software missing LTI function		
L04E			TDA12021HJ/NIB11	L4TEF1_1.0					
L04E			TDA12021HJ/NIB11	L4IEF1_X	3139 127 02861			L4IEF1_1.5	3139 127 02862
L04E			TDA12021HJ/NIB11	L4IEF1_1.5	3139 127 02862				
L04E	IBO			NOR2.1	3139 127 02692				
L04A	China/Thai AP	Wk409 or higher	TDA12060HJ/NIB001AE TDA12010HJ/NIB101AF TDA12011HJ/NIB101AG	L04AN1_1.0	3139 127 01101			L4LAN1_1.9	3139 127 01231
L04A	China/Thai AP	Wk4xx or higher	TDA12060HJ/NIB001AE TDA12010HJ/NIB101AF TDA12011HJ/NIB101AG	L4LAN1_1.9	3139 127 01231		Solved No sound after press SAP key twice Monitor out no sound PAL I detection wrong/improve sound detection over modulation and auto detection level.		
L04A	India AP	Wk4xx or higher	TDA12060HJ/NIB001AH TDA12011HJ/NIB511AU	L04AN2_1.0	3139 127 01111			L04AN2_1.1	3139 127 01241
L04A	India AP	Wk431 or higher	TDA12060HJ/NIB001AH TDA12011HJ/NIB511AU	L04AN2_1.1	3139 127 01241		Solved monitor out no sound only support 100 channel sound standard and color standard while there is 200 channels AV Stereo Auto-Sound Detection/Modify sound detection behavior and algorithm to solve sound detection and cracking OSD Name change from Digi Pic Demo to D.C.V. Demo		
L04A	Store Aus NZ AP	Wk4xx or higher	TDA12020HJ/NIB101AI TDA12021HJ/NIB101AJ	L04AF1_1.0	3139 127 01081			L04AF1_1.6	3139 127 01211
L04A	Store Aus NZ AP	Wk415 or higher	TDA12020HJ/NIB101AI TDA12021HJ/NIB101AJ	L04AF1_1.6	3139 127 01211		Solved TV Sets switch off with incorrect stop times AV Active control value are wrong during pressing smart key auto program will be interrupt by pressing 123654 key some keys (Incredible Surround AV) doesn't work in the teletext PAL-I no NICAM after working several minutes the sound level is abnormal after do cold start Picture will be more wide when switch TV to mixed teletext mode get wrong sound when select sound made in factory EWW offer in Edit Text Mode for 16:9 safe		
L04A	Middle East AP	Wk4xx or higher	TDA12020HJ/NIB101AK TDA12021HJ/NIB101AL	L04AF2_1.0	3139 127 01091			L4LAF2_1.5	3139 127 01221
L04A	Middle East AP	Wk415 or higher	TDA12020HJ/NIB101AK TDA12021HJ/NIB101AL	L04AF2_1.5	3139 127 01221		Solved Sets switch off with incorrect stop time on the top of subtitle was invisible (time and data) in teletext mode Active control value are wrong during pressing smart key auto program will be interrupt by pressing 123654 key some keys (Incredible Surround AV) doesn't work in the teletext PAL-I no NICAM after working several minutes the sound level is abnormal after do cold start Picture will be more wide when switch TV to mixed teletext mode get wrong sound when select sound made in factory		
L04A	Taiwan/Philippine AP	Wk4xx or higher	TDA12010HJ/NIB501AM TDA12011HJ/NIB511AN	L04AC1_1.0	3139 127 01071			L4LACL_1.4	3139 127 01201
L04A	Taiwan/Philippine AP	Wk4xx or higher	TDA12010HJ/NIB501AM TDA12011HJ/NIB511AN	L04AC1_1.4	3139 127 01201		Solved To add factory mode command (2 y) + (23 34) Adjustable Max Bass Level		

Software Survey

SOFTWARE SURVEY									
CHASSIS	FAMILY	PRODUCTION CODE	UP TYPE/VERSION	IDENT	SERVICE CODE	HOTEL MODE ?	REMARKS TYPICAL FOR THIS SOFTWARE	REPLACED BY IDENT	SERVICE CODE
L04U	Nafta	Wk4xx or higher	TDA1200HJ/NIB501AB TDA1200HJ/NIB511AC TDA1200HJ/NIB501AD	L04US1_2.0	3139 127 00991			L4LUS1_2.1	3139 127 01121
L04U	Nafta	Wk4xx or higher	TDA1200HJ/NIB501AB TDA1200HJ/NIB511AC TDA1200HJ/NIB501AD	L04US1_2.1	3139 127 01121			L4LUS1_2.5	3139 127 01122
L04U			TDA1200HJ/NIB501AB TDA1200HJ/NIB511AC TDA1200HJ/NIB501AD	L4LUS1_2.5	3139 127 01122		Solved:TI is not turned off in Factory mode	L4LUS1_2.6	3139 127 01123
L04U			TDA1200HJ/NIB501AB TDA1200HJ/NIB511AC TDA1200HJ/NIB501AD	L4LUS1_2.6	3139 127 01123		Solution for sound initialization		
L04L	Latam	Wk4xx or higher	TDA1200HJ/NIB501AO TDA1200HJ/NIB511AP	L04LS1_1.0	3139 127 01001			L4LUS1_1.3	3139 127 01131
L04L			TDA1200HJ/NIB501AO TDA1200HJ/NIB511AP	L4LUS1_1.3	3139 127 01131		Solved:dtt will be seen during auto program Auto Program does not work:QOMS 74569 Not working, not checked by vertical line	L4LUS1_1.6	3139 127 01132
L04L			TDA1200HJ/NIB501AO TDA1200HJ/NIB511AP	L4LUS1_1.6	3139 127 01132		Solved:"SAP" OSD display not correctly:WIDESCREEN FORMAT, individually alignment and Offer address to 50Hz and 60Hz:To Align the Horizontal Shift	L4LUS1_1.7	3139 127 01133
L04L			TDA1200HJ/NIB501AO TDA1200HJ/NIB511AP	L4LUS1_1.7	3139 127 01133		Solved:Reduce stereo detection sensitivity for a special channel in Latam:Lost sound in local transmission. (QOMS8346):To Align the Horizontal Shift (HSH) for sound in local transmission.		
LC03E	West Europe	Wk313 or higher	SAA5667 HJ/M1	LC08E21-2.00	9965 000 18102		Use scaler software S3xx 2.00	LC03E21-2.07	9965 000 21051
LC03E	West Europe	Wk320 or higher	SAA5667 HJ/M1	LC08E21-2.03	3111 250 54881		Use scaler software S3xx 2.04	LC03E21-2.07	9965 000 21051
LC03E	West Europe	Wk324 or higher	SAA5667 HJ/M1	LC08E21-2.04	9965 000 26574		Use scaler software S3xx 2.06	LC03E21-2.07	9965 000 21051
LC03E	West Europe	Wk324 or higher	SAA5667 HJ/M1	LC08E21-2.05	9965 000 23136		Use scaler software S3xx 2.07	LC03E21-2.07	9965 000 21051
LC03E	West Europe	Wk328 or higher	SAA5667 HJ/M1	LC08E21-2.06	9965 000 20575		For 15/17" TN use scaler software S3xx 2.08	LC03E21-2.07	9965 000 21051
LC03E	West Europe	Wk328 or higher	SAA5667 HJ/M1	LC08E21-2.07	9965 000 21051		For 15/17" IPS use scaler software S3xx 2.08	LC03E21-2.07	9965 000 21051
LC03E	West Europe	Wk377 or higher	SAA5667 HJ/M1	LC08E21-2.09	9965 000 23453		For 15/17" IPS use scaler software S3xx 2.09	-	-
LC03E	East Europe	Wk313 or higher	SAA5667 HJ/M1	LC08E22-2.00	9965 000 18103		Use scaler software S3xx 2.00	LC03E21-2.07	9965 000 21051
LC03E	East Europe	Wk320 or higher	SAA5667 HJ/M1	LC08E22-2.03	3111 250 54881		Use scaler software S3xx 2.04	LC03E21-2.07	9965 000 21051
LC03E	East Europe	Wk324 or higher	SAA5667 HJ/M1	LC08E22-2.04	9965 000 26576		Use scaler software S3xx 2.06	LC03E21-2.07	9965 000 21051
LC03E	East Europe	Wk324 or higher	SAA5667 HJ/M1	LC08E22-2.05	9965 000 23135		Use scaler software S3xx 2.07	LC03E21-2.07	9965 000 21051
LC03E	East Europe	Wk324 or higher	SAA5667 HJ/M1	LC08E22-2.06	9965 000 26601		Use scaler software S3xx 2.08	LC03E21-2.07	9965 000 21051
LC03E	East Europe	Wk328 or higher	SAA5667 HJ/M1	LC08E22-2.07	9965 000 21052		For 15/17" TN use scaler software S3xx 2.08	LC03E21-2.07	9965 000 21051
LC03E	East Europe	Wk377 or higher	SAA5667 HJ/M1	LC08E22-2.09	3111 250 54981		For 15/17" IPS use scaler software S3xx 2.09	-	-
LC03A	AP_PAL_469 15" & 17"	Wk277 or higher	SAA5667 HJ/M1	LC08A21-2.00	9965 000 19412		Use scaler software S3xx 2.00	-	-
LC03A	AP_PAL_469 15" & 17"	Wk277 or higher	SAA5667 HJ/M1	LC08A21-2.03	9965 000 21078		Use scaler software S3xx 2.08	-	-
LC03A	AP_PAL_469 15" & 17"	Wk277 or higher	SAA5667 HJ/M1	LC08A21-2.04	9965 000 23132		-	-	-
LC03A	AP_PAL_461 15" & 17"	Wk277 or higher	SAA5645 HJ/M1	LC08A32-2.03	9965 000 21079		Use scaler software S3xx 2.08	-	-
LC03A	AP_PAL_461 15" & 17"	Wk277 or higher	SAA5645 HJ/M1	LC08A32-2.04	9965 000 23131		-	-	-
LC03U	NAFTA 15" & 17"	Wk277 or higher	SAA5647 HJ/M1	LC08U11-2.01	9965 000 19420		Use scaler software S3xx 2.00	-	-
LC03U	NAFTA 15" & 17"	Wk277 or higher	SAA5647 HJ/M1	LC08U11-2.03	9965 000 21083		Use scaler software S3xx 2.08	-	-
LC03U	NAFTA 15" & 17"	Wk277 or higher	SAA5647 HJ/M1	LC08U11-2.04	9965 000 23133		-	-	-
LC03L	LATAM, 15" & 17"	Wk277 or higher	SAA5647 HJ/M1	LC08L11-2.00	9965 000 22372		Use scaler software S3xx 2.00	-	-
LC03L	LATAM, 15" & 17"	Wk277 or higher	SAA5647 HJ/M1	LC08L11-2.01	9965 000 23134		-	-	-
LC03	15" Scaler board	Wk217 or higher	M29F002B7-90P1 (9322 190 48682)	S315 2.00	9965 000 18108		This Scaler software must always be used in combination with : -TV software LC03E21-2.00 (West Europe) or LC03E22-2.00 (East Europe) -NVML15_2.00 on position 7752	S315 2.11	9965 000 22752
LC03	15" Scaler board NVM	Wk277 or higher	M24C16-BN6 (9322 126 62892)	NVML15_2.00	9965 000 18153		This NVM can only be used in combination with the Scaler board software S315 2.00		
LC03	15" Scaler board	Wk277 or higher		S315 2.04	9965 000 19542		The Scaler software must always be used in combination with : -TV software LC03E21-2.03 (West Europe) or LC03E22-2.03 (East Europe) -NVML15_2.04 on position 7752	S315 2.11	9965 000 22752
LC03	15" Scaler board NVM	Wk277 or higher		NVML15_2.04	9965 000 19543		This NVM can only be used in combination with the Scaler board software S315 2.04		
LC03	15" Scaler board	Wk277 or higher		S315 2.06	9965 000 19542		This Scaler software must always be used in combination with : -TV software LC03E21-2.03 (West Europe) or LC03E22-2.03 (East Europe) -NVML15_2.06 on position 7752	S315 2.11	9965 000 22752
LC03	15" Scaler board NVM	Wk277 or higher		NVML15_2.06	9965 000 19543		This NVM can only be used in combination with the Scaler board software S315 2.06		
LC03	15" Scaler board	Wk277 or higher		S315 2.07	9965 000 22638		The Scaler software must always be used in combination with : -TV software LC03E21-2.05 (West Europe) or LC03E22-2.05 (East Europe) -NVML15_2.07 on position 7752	S315 2.11	9965 000 22752
LC03	15" Scaler board NVM	Wk277 or higher		NVML15_2.07	9965 000 22633		This NVM can only be used in combination with the Scaler board software S315 2.07		
LC03	15" Scaler board	Wk277 or higher		S315 2.08	9965 000 21189		This Scaler software must always be used in combination with : -TV software LC03E21-2.07 (West Europe) or LC03E22-2.07 (East Europe) -NVML15_2.08 on position 7752	S315 2.11	9965 000 22752

Software Survey

SOFTWARE SURVEY									
CHASSIS	FAMILY	PRODUCTION CODE	UP TYPE/VERSION	IDENT	SERVICE CODE	HOTEL MODE ?	REMARKS TYPICAL FOR THIS SOFTWARE	REPLACED BY IDENT	SERVICE CODE
LC03	15" Scaler board NVM	WK7?? or higher		NVML15_2_08	9965 000 21188		This NVM can only be used in combination with the Scaler board software S315 2.08		
LC03	15" Scaler board	WK7?? or higher		S315 2.11	9965 000 22752		This Scaler software must always be used in combination with : -TV software LCO3E21-2.09 (West Europe) or LCO3E22-2.09 (East Europe) -NVML15_2.11 on position 7752	-	-
LC03	15" Scaler board NVM	WK7?? or higher		NVML15_2.11	9965 000 22753		This NVM can only be used in combination with the Scaler board software S315 2.11		
LC03	15" Scaler board	WK7?? or higher		S315 2.21	9965 000 22763	ps	This Scaler software must always be used in combination with : -TV software LCO3E21-2.09 (West Europe) or LCO3E22-2.09 (East Europe) -NVML15_2.21 on position 7752	-	-
LC03	15" Scaler board NVM	WK7?? or higher		NVML15_2.21	9965 000 22765		This NVM can only be used in combination with the Scaler board software S315 2.21		
LC03	15" Scaler board	WK7?? or higher		S315 2.24	9965 000 25406	ps	This Scaler software must always be used in combination with : -TV software LCO3E21-2.09 (West Europe) or LCO3E22-2.09 (East Europe) -NVML15_2.24 on position 7752	-	-
LC03	15" Scaler board NVM	WK7?? or higher	M24C02-WMN6 (0352 145 26669)	DDC15	9965 000 19148		This NVM is compatible with all TV and 15" Scaler board software versions		
LC03	17" Scaler board	WK217 or higher		S317 2.00	9965 000 18098		This Scaler software must always be used in combination with : -TV software LCO3E21-2.04 (West Europe) or LCO3E22-2.04 (East Europe) -NVML17_2.00 on position 7752	S317 2.11	9965 000 22761
LC03	17" Scaler board NVM	WK7?? or higher		NVML17_2.00	9965 000 18154		This NVM can only be used in combination with the Scaler board software S317 2.00		
LC03	17" Scaler board	WK7?? or higher		S317 2.04	9965 000 19550		This Scaler software must always be used in combination with : -TV software LCO3E21-2.03 (West Europe) or LCO3E22-2.03 (East Europe) -NVML17_2.04 on position 7752	S317 2.11	9965 000 22761
LC03	17" Scaler board NVM	WK7?? or higher		NVML17_2.04	9965 000 19551		This NVM can only be used in combination with the Scaler board software S317 2.04		
LC03	17" Scaler board	WK7?? or higher		S317 2.07	9965 000 22634		This Scaler software must always be used in combination with : -TV software LCO3E21-2.05 (West Europe) or LCO3E22-2.05 (East Europe) -NVML17_2.07 on position 7752	S317 2.11	9965 000 22761
LC03	17" Scaler board NVM	WK7?? or higher		NVML17_2.07	9965 000 22641		This NVM can only be used in combination with the Scaler board software S317 2.07		
LC03	17" Scaler board	WK7?? or higher		S317 2.08	9965 000 21195		This Scaler software must always be used in combination with : -TV software LCO3E21-2.07 (West Europe) or LCO3E22-2.07 (East Europe) -NVML17_2.08 on position 7752	S317 2.11	9965 000 22761
LC03	17" Scaler board NVM	WK7?? or higher		NVML17_2.08	9965 000 21196		This NVM can only be used in combination with the Scaler board software S317 2.08		
LC03	17" Scaler board	WK7?? or higher		S317 2.11	9965 000 22761		This Scaler software must always be used in combination with : -TV software LCO3E21-2.08 (West Europe) or LCO3E22-2.08 (East Europe) -NVML17_2.11 on position 7752	-	-
LC03	17" Scaler board NVM	WK7?? or higher		NVML17_2.11	9965 000 22762	in	This NVM can only be used in combination with the Scaler board software S317 2.11		
LC03	17" Scaler board	WK7?? or higher		S317 2.21	9965 000 22764	ps	This Scaler software must always be used in combination with : -TV software LCO3E21-2.09 (West Europe) or LCO3E22-2.09 (East Europe) -NVML17_2.21 on position 7752	-	-
LC03	17" Scaler board NVM	WK7?? or higher		NVML17_2.21	9965 000 22766		This NVM can only be used in combination with the Scaler board software S317 2.21		
LC03	17" Scaler board	WK7?? or higher		S317 2.23	9965 000 24207	ps	This Scaler software must always be used in combination with : -TV software LCO3E21-2.09 (West Europe) or LCO3E22-2.09 (East Europe) -NVML17_2.23 on position 7752	-	-
LC03	17" Scaler board	WK7?? or higher		S317 2.24	9965 000 25419	ps	This NVM can only be used in combination with the Scaler board software S317 2.24	-	-
LC03	17" Scaler board NVM	WK7?? or higher	M24C02-WMN6 (0352 145 26669)	DDC17	9965 000 19149		This NVM is compatible with all TV and 15" Scaler board software versions		
LC03	23" Scaler board	WK7?? or higher		S323 2.08	9965 000 26634				
LC03	23" Scaler board NVM	WK7?? or higher		NVML23_2.08	9965 000 26635				
LC03	23" Scaler board	WK7?? or higher		S323 2.09	9965 000 21053				
LC03	23" Scaler board NVM	WK7?? or higher		NVML23_2.09	9965 000 21055				
LC03	23" Scaler board	WK7?? or higher		S323 2.21	9965 000 26637				
LC03	23" Scaler board NVM	WK7?? or higher		NVML23_2.21	9965 000 26638				
LC03	23" Scaler board NVM	WK7?? or higher	M24C02-WMN6 (0352 145 26669)	DDC23	9965 000 21054				
LC13A	AP VGA	WK3?? or higher	SAA5667H/JM1	LC13AG1-1.00	9965 000 23163			LC13EG1-1.05	9965 000 23142
LC13A	AP VGA	WK3?? or higher	SAA5667H/JM1	LC13AX1-1.00	9965 000 23164			LC13EG1-1.05	9965 000 23142
LC13E	West Europe VGA	WK335 or higher	SAA5667H/JM1	LC13EG1-1.01	3111 250 54961			LC13EG1-1.07	3111 250 55041
LC13E	West Europe VGA	WK338 or higher	SAA5667H/JM1	LC13EG1-1.02	3111 250 54981			LC13EG1-1.07	3111 250 55041
LC13E	West Europe VGA	WK341 or higher	SAA5667H/JM1	LC13EG1-1.03	3111 250 54981			LC13EG1-1.07	3111 250 55041
LC13E	West Europe VGA	WK3?? or higher	SAA5667H/JM1	LC13EG1-1.05	9965 000 23142			LC13EG1-1.07	3111 250 55041
LC13E	West Europe VGA	WK3?? or higher	SAA5667H/JM1	LC13EG1-1.07	3111 250 55041			-	-
LC13E	East Europe VGA	WK335 or higher	SAA5667H/JM1	LC13EG2-1.01				LC13EG2-1.07	3111 250 55061
LC13E	East Europe VGA	WK338 or higher	SAA5667H/JM1	LC13EG2-1.02				LC13EG2-1.07	3111 250 55061
LC13E	East Europe VGA	WK341 or higher	SAA5667H/JM1	LC13EG2-1.03	3111 250 55001			LC13EG2-1.07	3111 250 55061
LC13E	East Europe VGA	WK3?? or higher	SAA5667H/JM1	LC13EG2-1.05	9965 000 23143			LC13EG2-1.07	3111 250 55061
LC13E	East Europe VGA	WK3?? or higher	SAA5667H/JM1	LC13EX1-1.03	3111 250 55051			-	-
LC13E	West Europe XGA	WK3?? or higher	SAA5667H/JM1	LC13EX1-1.05	3111 250 55061			LC13EG2-1.05	9965 000 23143
LC13E	East Europe XGA	WK3?? or higher	SAA5667H/JM1	LC13EX2-1.03					
LC13E	East Europe XGA	WK3?? or higher	SAA5667H/JM1	LC13EX2-1.05	3111 250 55071			LC13EG2-1.05	9965 000 23143

Software Survey

SOFTWARE SURVEY									
CHASSIS	FAMILY	PRODUCTION CODE	UP TYPE/VERSION	IDENT	SERVICE CODE	HOTEL MODE ?	REMARKS TYPICAL FOR THIS SOFTWARE	REPLACED BY IDENT	SERVICE CODE
LC13U	Natia, VGA	Wk377 or higher	SAA5667H1M1	LC13UG1_1.04	9965 000 23145			LC13UG1_1.04	9965 000 23145
LC13U	Natia, XGA	Wk377 or higher	SAA5667H1M1	LC13UX1_1.04	9965 000 23146			LC13UG1_1.04	9965 000 23145
LC4.1A	Hercules, No pixel plus		TDAl5021HN1A11	LC4AP1_1.00	3139 127 02791			LC4AP1_1.03	3139 127 03901
LC4.1A	Hercules, No pixel plus, China		TDAl5011HN1A50	LC4AP1_1.03	3139 127 03901				
LC4.1E	Hercules, No pixel plus, WE		TDAl5021HN1A11	LC4EP1_1.00	3139 127 02311			LC4EP1_1.04	3139 127 02312
LC4.1E	Hercules, No pixel plus, WE		TDAl5021HN1A11	LC4EP1_1.04	3139 127 02312				
LC4.1E	Hercules, No pixel plus,EE		TDAl5021HN1A11	LC4EP2_1.00	3139 127 02301			LC4EP2_1.04	3139 127 02302
LC4.1E	Hercules, No pixel plus,EE		TDAl5021HN1A11	LC4EP2_1.04	3139 127 02302				
LC4.1L	Hercules, No pixel plus		TDAl5011HN1A50	LC4LP1_1.01	3139 127 02801				
LC4.1U	Hercules, No pixel plus		TDAl5001HN1A50	LC4UN1_1.01	3139 127 02431			LC4UN1_1.04	3139 127 02432
LC4.1U	Hercules, No pixel plus		TDAl5001HN1A50	LC4UN1_1.04	3139 127 02432				
LC4.1A	Scaler, XGA			S41RV1_AP_1.01	3139 127 02251				
LC4.1A	Scaler, XGA, China			S41RV1_CHINA_1.03	3139 127 03871				
LC4.1E	Scaler,WE, VGA	Wk435 or higher		S41EV1_1.02	3139 127 02351			S41EV1_1.06	3139 127 02352
LC4.1E	Scaler,WE, VGA			S41EV1_1.06	3139 127 02352				
LC4.1E	Scaler, EE, VGA	Wk435 or higher		S41EV2_1.02	3139 127 02361			S41EV2_1.06	3139 127 02362
LC4.1E	Scaler, EE, VGA			S41EV2_1.06	3139 127 02362				
LC4.1E	Scaler, WE, XGA	Wk435 or higher		S41EX1_1.02	3139 127 02331			S41EX1_1.06	3139 127 02332
LC4.1E	Scaler, WE, XGA			S41EX1_1.06	3139 127 02332				
LC4.1E	Scaler, EE, XGA	Wk435 or higher		S41EX2_1.02	3139 127 02341			S41EX2_1.06	3139 127 02342
LC4.1E	Scaler, EE, XGA			S41EX2_1.06	3139 127 02342				
LC4.1L	Scaler, XGA			S41RX1_LTM_1.00	3139 127 03241			S41RX1_1.03	3139 127 02411
LC4.1L	Scaler, XGA			S41RX1_LTM_1.01	3139 127 03242				
LC4.1U	Scaler, VGA	Wk4xx or higher		S41RV1_1.01	3139 127 02401				
LC4.1U	Scaler, XGA	Wk4xx or higher		S41RX1_1.03	3139 127 02411				
LC4.1U	Scaler, XGA	Wk4xx or higher		S41RX1_1.07	3139 127 02412				
LC4.1AE1/UJ	DDG VGA	Wk432 or higher		DDC -151P1NTN	3139 127 02461				
LC4.1AE1/UJ	DDG VGA	Wk432 or higher		DDC -171P1UPS	3139 127 02471				
LC4.1AE1/UJ	DDG VGA	Wk442 or higher		DDC- 20LPLUPS	3139 127 03851			DDC- 20LPLIPS	3139 127 03852
LC4.1AE1/UJ	DDG VGA	Wk502 or higher		DDC- 20LPLUPS	3139 127 03852				
LC4.1AE1/UJ	DDG VGA	Wk432 or higher		DDC - 23QJITN	3139 127 02321				
LC4.2A	Hercules			LC42AP1_1.08	3139 127 01391			LC42AP1_1.09	3139 127 01392
LC4.2A	Hercules			LC42AP1_1.09	3139 127 01392				
LC4.2A	Hercules, Pixel plus			LC42AX1_1.02	3139 127 02031			LC42AX1_1.03	3139 127 02032
LC4.2A	Hercules, Pixel plus			LC42AX1_1.03	3139 127 02032				
LC4.2A	Hercules, Arch 3			LC42AA3_1.00	3139 127 03571			LC42AA3_1.01	3139 127 03572
LC4.2A	Hercules, Arch 3			LC42AA3_1.01	3139 127 03572				
LC4.2A	Hercules			LC42HA1_1.00	3139 127 03521			LC42HA1_1.0808	3139 127 03522
LC4.2A	Hercules			LC42HA1_1.0808	3139 127 03522				
LC4.2E	Hercules, WE	Wk419 or higher		LC42EP1_1.05			For this TV software use Scaler software S42GV1_1.04 Removing of info line in AV Blue mute sync problem, Containment action for "r" OSD character on screen, Nlcam sound loose and Light Sensor reaction time		
LC4.2E	Hercules, WE	Wk420 or higher		LC42EP1_1.07			For this TV software use Scaler software S42GV1_1.06 AT S in UK for CH4		
LC4.2E	Hercules, WE	Wk428 or higher		LC42EP1_1.09	3139 127 01411		For this TV software use Scaler software S42GV1_1.06 Mistake in Italian language (Full screen/Wide Screen), TXT possible in RGB mode, Removing of Wall Paper in FM Radio, info line removed and improvement of starting-up issue for 17"	LC42EP1_3.03	3139 127 01412
LC4.2E	Hercules, WE	Wk428 or higher		LC42EP1_1.11					
LC4.2E	Hercules, WE	Wk437 or higher		LC42EP1_3.03	3139 127 01412			LC42EP1_3.05	3139 127 01413
LC4.2E	Hercules, WE	Wk438 or higher		LC42EP1_3.04	3139 127 01412				
LC4.2E	Hercules, WE			LC42EP1_3.05	3139 127 01413				
LC4.2E	Hercules, Pixel plus	TV software		LC42EX1_1.00					
LC4.2E	Hercules, Pixel plus	TV software		LC42EX1_1.02	3139 127 02001			LC42EX1_1.04	3139 127 02002
LC4.2E	Hercules, Pixel plus	TV software		LC42EX1_1.04	3139 127 02002				
LC4.2E	Hercules, Arch 3	TV software		LC42EA3_1.01	3139 127 03221			LC42EX1_1.04	3139 127 03222
LC4.2E	Hercules, Arch 3	TV software		LC42EA3_1.02	3139 127 03222				
LC4.2E	Hercules, Arch 3	TV software		LC42EA3_1.05	3139 127 03792				
LC4.2E	Hercules, Streamium	TV software		LC42ES1_1.01	3139 127 03471				
LC4.2U	Hercules	TV software		LC42UN1_1.10	3139 127 01402				

Software Survey

SOFTWARE SURVEY									
CHASSIS	FAMILY	PRODUCTION CODE	UP TYPE/VERSION	IDENT	SERVICE CODE	HOTEL MODE ?	REMARKS TYPICAL FOR THIS SOFTWARE	REPLACED BY IDENT	SERVICE CODE
LC4.2U	Hercules, Pixel plus	TV software		LC42UX1_1.05	3139 127 02061				
	Hercules, Pixel plus	TV software		LC42UX1_1.07	3139 127 02062			LC42UX1_1.07	3139 127 02062
LC4.2U	Hercules, Streamium	TV software		LC42US1_1.00	3139 127 03411				
	Hercules, Arch 3	TV software		LC42UA3_1.01	3139 127 03562				
LC4.2U	Hercules	TV software		LC42HU1_1.1011	3139 127 02561				
	Hercules	TV software		LC42HU1_1.1013	3139 127 02562			LC42HU1_1.1013	3139 127 02562
LC4.2AEI/U	Scaler			S42GV1_1.00					
	Scaler			S42GV1_1.04				S42GV1_1.04	
LC4.2AEI/U	Scaler			S42GV1_1.06				S42GV1_1.06	
	Scaler			S42GV1_1.08				S42GV1_1.08	
LC4.2AEI/U	Scaler			S42GV1_1.09				S42GV1_1.09	
	Scaler			S42GV1_1.11	3139 127 01342			S42GV1_1.11	3139 127 01342
LC4.2AEI/U	Scaler			S42GV1_1.13	3139 127 01343			S42GV1_1.13	3139 127 01343
LC4.2AEI/U	Scaler, Pixel Plus			S42GTP_1.00					
	Scaler, Pixel Plus			S42GTP_1.09	3139 127 02091			S42GTP_1.09	3139 127 02091
LC4.2AEI/U	Scaler, Pixel Plus			S42GTP_1.12	3139 127 02092			S42GTP_1.12	3139 127 02092
LC4.2AEI/U	Scaler, DMR/Streamium			S42GTD_1.00					
	Scaler, DMR/Streamium			S42GTD_1_1.03				S42GTD 1_1.03	
LC4.2AEI/U	Scaler, DMR/Streamium			S42GTD 1_1.04	3139 127 02972			S42GTD 1_1.04	
	Scaler, DMR/Streamium			S42GTD 1_1.07	3139 127 02973			S42GTD 1_1.07	3139 127 02973
LC4.2AEI/U	Scaler			S42GSD_1.06					
	Scaler			S42GSD_1.06	3139 127 03481				
LC4.2	EPID				3122 357 00601				
	EPID				3122 357 00602				3122 357 00602
LC4.2	DDC VGA			DDC VGA 26 LC04					
	DDC VGA			DDC VGA 23 LC04	3139 127 01491				
LC4.2	DDC VGA			DDC VGA 26 LC04	3139 127 0151				
	DDC VGA			DDC VGA 23 LC04	3139 127 01891				
LC4.2	DDC VGA			DDC VGA 23 LC04PP	3139 127 01931				
	DDC VGA			DDC VGA 26 NA LC04PP	3139 127 01971				
LC4.2	DDC VGA			DDC VGA 23 NA LC04PP	3139 127 01991				
	DDC VGA			DDC VGA 23 STREAMIUM	3139 127 02501				
LC4.2	DDC VGA			DDC VGA 17 LC04 DMR	3139 127 02521				
	DDC VGA			DDC VGA 26 ARCH3 LC04	3139 127 03151				
LC4.2	DDC VGA			DDC VGA 23HF9472	3139 127 03291				
	DDC VGA			DDC VGA 23HF9442	3139 127 03301				
LC4.2	DDC VGA			DDC VGA 26FW5220	3139 127 03321				
	DDC VGA			DDC VGA 23FW5220	3139 127 03341				
LC4.2	DDC VGA			DDC VGA 26FW5472	3139 127 03371				
	DDC DVI			DDC DVI171 LC04	3139 127 01481			DDC DVI 17 LC04	3139 127 01482
LC4.2AEI/U	DDC DVI			DDC DVI171 LC04	3139 127 01482				
	DDC DVI			DDC DVI231 LC04	3139 127 01471			DDC DVI 23 LC04	3139 127 01472
LC4.2AEI/U	DDC DVI			DDC DVI231 LC04	3139 127 01472				
	DDC DVI			DDC DVI26 LC04	3139 127 01462				
LC4.2AEI/U	DDC DVI			DDC DVI23 LC04PP	3139 127 01952			DDC DVI 23 LC04PP	3139 127 01952
	DDC DVI			DDC DVI26 LC04PP	3139 127 01912				
LC4.2AEI/U	DDC DVI			DDC DVI 23 STREAMIUM	3139 127 02481				
	DDC DVI			DDC DVI 26 ARCH3 LC04	3139 127 03142				
LC4.2AEI/U	DDC DVI			DDC DVI 23HF9472IPS	3139 127 03631				
	DDC DVI			DDC DVI 23HF9472IPS	3139 127 03641				
LC4.2AEI/U	DDC DVI			DDC DVI 23HF9442IPS	3139 127 03651				
	DDC DVI			DDC DVI 17 LC04	3139 127 01451			DDC HDMI 17 LC04	3139 127 01452
LC4.2	DDC HDMI			DDC HDMI 17 LC04	3139 127 01452				
	DDC HDMI			DDC HDMI 23 LC04PP	3139 127 01442				
LC4.2	DDC HDMI			DDC HDMI 26 LC04PP	3139 127 01432				
	DDC HDMI			DDC HDMI 23 STREAMIUM	3139 127 02631				
LC4.2	DDC HDMI			DDC HDMI 23FW5220	3139 127 03701				
	DDC HDMI			DDC HDMI 26FW5220	3139 127 03691				
LC4.5E	Hercules			LC4EV5V1.09	3139 127 04064			LC42API_1.09	3139 127 01392
	Scaler			SR0ASD12-V1.06	3139 127 04015			S42GV1_1.04	
LC4.5E	DDC VGA			DDC VGA 32 LC04SD12	3139 127 03981				
	UP (Hercules)	TV software		HER LC04 EUR_L U V2.00	3104 317 06961				
LC4.6E	UP (Hercules)	TV software		HER LC04 EUR_L C V2.04	3104 317 07221				
LC4.6E	UP (Hercules)	TV software		HER LC04 EUR_L C V2.05	3104 317 07371				
LC4.6E	UP (Hercules)	TV software		HER LC04 EUR_L C V2.06	3104 317 07831				
LC4.6E	UP (Hercules)	TV software		LC4EV1_2.08	3104 317 07832				

Software Survey

SOFTWARE SURVEY									
CHASSIS	FAMILY	PRODUCTION CODE	UP TYPE/VERSION	IDENT	SERVICE CODE	HOTEL MODE ?	REMARKS TYPICAL FOR THIS SOFTWARE	REPLACED BY IDENT	SERVICE CODE
LC4.6E	Scaler (Genesis)			GEN LC04 EUR L V2.00	3104 317 06601				
LC4.6E	Scaler (Genesis)			GEN LC04 EUR L V2.02	3104 317 07101				
LC4.6E	Scaler (Genesis)			GEN LC04 EUR L V2.07	3104 317 07141				
LC4.6E	Scaler (Genesis)			GEN LC04 EUR L V2.08	3104 317 07651				
LC4.6E	Scaler (Genesis)			SR04SXR1 2.10	3104 317 07652				
LC4.6A	uP (Hercules)	TV software		LC46 HERC AC L NNN XXX	3104 317 08071			LC46 HERC AC L 1.07B_08	3104 317 08241
LC4.6A	uP (Hercules)	TV software		LC46 HERC AC L 1.07B_082	3104 317 08241				
LC4.6A	Scaler (Genesis)			LC46 GEN AC L 2.04_0811.1	3104 317 08111			GEN LC04 EUR L V2.02	3104 317 07211
LC4.6U	uP (Hercules)	TV software		LC46 HERC UC L 1.06_0806	3104 317 08061			LC46 HERC UC L 1.08_081	3104 317 08181
LC4.6U	uP (Hercules)	TV software		LC46 HERC UC L 1.08_0818	3104 317 08181				
LC4.6U	Scaler (Genesis)			LC46 GEN UC L 2.02_08101	3104 317 08101			LC46 GEN UC L 2.04_0819	3104 317 08191
LC4.6U	Scaler (Genesis)			LC46 GEN UC L 2.04_0819.1	3104 317 08191				
LC4.6L	uP (Hercules)	TV software		LC46 HERC LC L 1.00_0869.1	3104 317 08691			LC46 HERC UC L 1.08_081	3104 317 08181
LC4.6L	Scaler (Genesis)			LC46 GEN LC L 1.00_0871.1	3104 317 08711			LC46 GEN UC L 2.04_0819	3104 317 08191
LC4.6E	DDC (VGA)			EDID VGA 30LCD LC04SD	3104 317 06601		EDID VGA 30LCD LC04SD		
LC4.6AUI/L	DDC (HDMI)			EDID HDMI 30LCD LC04SD	3104 317 07151				
LC4.7E	uP (Hercules)	TV software		HERC LC04 EUR P C V2.0F	3104 317 07891				
LC4.7E	Scaler (Genesis)			GEN LC04 EUR P V2.06	3104 317 07511				
LC4.7A	uP (Hercules)	TV software		LC46 HERC AC P 1.07B_082	3104 317 08231			LC46 HERC AC L 1.07B_08	3104 317 08241
LC4.7A	Scaler (Genesis)			LC46 GEN AC P NNN XXXX	3104 317 08131			GEN LC04 EUR L V2.02	3104 317 07211
LC4.7U	uP (Hercules)	TV software		LC46 HERC UC P 1.09_0820	3104 317 08202			LC46 HERC UC L 1.08_081	3104 317 08181
LC4.7U	Scaler (Genesis)			LC46 GEN UC P 2.04_0821.1	3104 317 08211			LC46 GEN UC L 2.04_0819	3104 317 08191
LC4.7L	uP (Hercules)	TV software		LC46 HERC LC P 1.00_0870.1	3104 317 08701			LC46 HERC UC L 1.08_081	3104 317 08181
LC4.7L	Scaler (Genesis)			LC46 GEN LC P 1.00_0872.1	3104 317 08721			LC46 GEN UC L 2.04_0819	3104 317 08191
LC4.7E	DDC (VGA)			EDID VGA 37 PDF LC04SD	3104 317 06601				
LC4.7AUI/L	DDC (VGA)			EDID VGA 42 PDF LC04SD	3104 317 06701				
LC4.7AUI/L	DDC (HDMI)			EDID HDMI 42 PDP LC04SD	3104 317 07171				

Model Number Survey

MODEL	STYLING	CHASSIS	PC	SYSTEM			SOUND	SIZE		VOL RANGE			OPTION CODES					
				P...PAL S...SECAM N...NTSC			N...=NICAM F...=FM/AM	wxhxd (cm)				TUNER	1 2 3	4	5	6	7	8
107FP410	505	LC4.6E	RC433301															
14HT315AN01	350	L01.2E																
14PF6826/00	546	TF1.1E																
14PF6826/01	546	TF1.1E																
14PF6826/05	546	TF1.1E																
14PF6826/58	546	TF1.1E																
14PF7846/12	519	LC4.1E																
14PF7846/58	519	LC4.1E																
14PT2034/69R	413	TL1.1A																
14PT2034/56R	413	TC2.1A																
14PT2110/56R	413	TC2.1A																
14PT2110/69R	413	TC2.1A																
14PT2110/79R	413	TC2.1A																
14PT6007/05	398	TDV1.1E																
14PT6107/05N	398	TDV1.1E																
14PT6107/58N	398	TE1.1E																
14PT6441/37	475	L03.1U																
14RFL150/37C	475	L03.1U																
15PF7995/535	424	LC03U																
15PF7835/69	446	LC1.3A																
15PF7835/37	446	LC1.3A																
15PF7835/69I	446	LC1.3A																
15PF7835/69S	446	LC1.3A																
15PF7835/93	446	LC1.3A																
15PF7846/12	519	LC4.1E																
15PF7846/58	519	LC4.1E																
15PF8946/12	484	LC4.1E																
15PF8946/37	517	LC4.1U																
15PF8946/58	484	LC4.1E																
15PT1767/01	543	L01.2E																
15PT1767/05	543	L01.2E																
15PT6807/01G	437	TDV2.1E																
15PT6807/01H	437	TDV2.1E																
15PT6807/01I	437	TDV2.1E																
15PT6807/05N	437	TDV2.1E																
17FW9955/35	424	LC03U																
17FW9945/69I	424	LC03A																
17HM8801/12	410	LC03A																
17HM8801/69	424	LC03A																
17HT315AN01	351	L01.2E																
17MW9010/37	424	LC03U																
17PF8946/12	494	LC4.1E																
17PF8946/37	517	LC4.1U																
17PF8946/58	494	LC4.1E																
17PF8946A/37	517	LC4.1A																
17PF9946/12	424	LC03U																
17PF9946/37	483	LC4.1E																
17PF9946/79	518	LC4.2A																
17PF9946/98	518	LC4.2A																
20DV6931/37R	397	L01.2U																
20DV6932/37R	397	L01.2U																
20DV6942/37	547	TC4.1U																
20HF7835/69	446	LC1.3A																
20HF9925/122	436	LC1.20E																
20HF9925/19Z	436	LC1.20E																
20L135/37R	508	L01.1U																
20L140/35R	375	L01.1U																
20L140/37C	529	L03.1U																
20L145/37C	529	L03.1U																
20L145/37R	375	L01.2U																
20M53341/37C	528	L03.1U																
20M53341/37R	374	L01.2U																
20PF7835/37	446	LC1.3A																
20PF7835/69I	446	LC1.3A																
20PF7835/69S	446	LC1.3A																
20PF7835/93	446	LC1.3A																
20PF7846/12	519	LC4.1E																
20PF7846/58	519	LC4.1E																
20PF8846/12	484	LC4.1E																
20PF8846/58	484	LC4.1E																

Model Number Survey

MODEL	STYLING	CHASSIS	RC		SYSTEM P...=PAL S...=SECAM N...=NTSC		SOUND N...=NICAM F...=FM/AM		SIZE wxhxd (cm)		VOLT RANGE		TUNER	OPTION CODES								
														1	2	3						
20PE8846/79	517	LC4.1A			P-BGDKI,S-BGDKK1S-BGDKK1,N-M/4.43(5.5)		F-BGChina,N-BGDKI,BI NICAM BGD/2CS-BG	AutoMulti-Voltage			AutoMulti-Voltage		UR1316/A F I S H-3	192	1	136						
20PE8846/98	517	LC4.1A			P-BGDKI,S-BGDKK1S-BGDKK1,N-M/4.43(5.5)		F-BGChina,N-BGDKI,BI NICAM BGD/2CS-BG	58x43x22			58x43x22		TEDH9-305A	65	215	65	64	180	120	0		N.A
20PE8946/37	481	LC3.1U			N-M		B-DEX	90-140V			60x49x47		ENV56K0EG3				162	204	201			
20PT5441/37	528	LC3.1U			N-M		B-NonDBX	90-140V					ENV56D98G3									
20PT6331/37C	375	LC3.1U			N-M		B-NonDBX	90-140V					TEDH9-305A	65	215	65	204	204	201			
20PT6341/37	483	LC3.1U			N-M		B-NonDBX	90-140V					ENV56K0EG3									
20PT6431/35R	377	LC3.1U			N-M		B-NonDBX	90-140V					ENV56D98G3									
20PT6431/37C	530	LC3.1U			N-M		B-NonDBX	90-140V					ENV56K0EG3									
20PT6431/37R	484	LC3.1U			N-M		B-NonDBX	90-140V					TEDH9-305A	65	215	67	162	204	201	64		
20PT6531/37R	397	LC3.1U			N-M		B-NonDBX	90-140V					ENV56D98G3									
21HT3154N/01	356	LC1.2E			N-M		B-NonDBX	90-140V					ENV56D98G3									
21L14585R	375	LC1.2U			N-M		B-DEX	90-140V					ENV56D98G3									
21PT1323/56S	375	LC1.1A			P-BGDKI,S-BGDKK1S-BGDKK1,N-M/4.43(5.5)/4.43		B-DEX	90-276AutoV					ENV56D98G3									
21PT1323/67R	375	LC1.1A			P-BGDKI		Mono	90-276AutoV					TEDE9-228B									
21PT1323/69S	375	LC1.1A			P-BGDKI		Mono	90-276AutoV					TEDE9-228B				0	192	144	11		129
21PT1617/60	553	LC1.2E			P-BGDKI		Mono	90-276AutoV					TEDE9-228B									
21PT1627/60	553	LC1.2E			P-BGDKI,S-BGDK		Mono	90-276AutoV					TEDE9-228B									
21PT1867/58	340	LC1.2E			P-BGDKI,S-BGDKLL		Mono	90-276AutoV					UR1316R/A I-3									
21PT2010/69R	413	LC1.1A			P-BGDKI,S-BGDK		2CS BG stereo	90-276AutoV					UV1355-BK2									
21PT2014/56R	413	LC2.1A			P-BGDKI,S-BGDK		2CS BG stereo	90-276AutoV					UV1355-BK2									
21PT2101/56R	413	LC2.1A			P-BGDKI,S-BGDK		2CS BG stereo	90-260V					UV1355-BK2									
21PT2101/69R	413	LC2.1A			P-BGDKI,S-BGDK		2CS BG stereo	90-260V					UV1355-BK2									
21PT2107/79R	413	LC2.1A			P-BGDKI,S-BGDK		2CS BG stereo	90-260V					UV1355-BK2									
21PT2124/71R	375	LC1.2A			P-BGDKI,S-BGDKK1,N-M/4.43(5.5)/4.43(6.5)		N-BGDKIID,2SC-BGDK,F-BG,AV S	90-276 AutoV					TEDE9-305A	0	215	65	2	180	145	84	2	
21PT2125/68R	375	LC1.2A			P-BGDKI,S-BGDKK1,N-M/4.43(5.5)/4.43(6.5)		N-BGDKIID,2SC-BGDK,F-BG,AV S	90-276 AutoV					TEDE9-305A	176	247	65	168	226	209	44		
21PT2324/56S	312	LC1.2A			P-BGDKI,N-M		Mono	90-276 AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT2324/67S	469	LC1.2A			P-BGDKI		Mono	90-276 AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT2324/67S	469	LC1.2A			P-BGDKI		Mono	90-276 AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT2324/69R	469	LC1.2A			P-BGDKI		Mono	90-276 AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT2324/71R	469	LC1.2A			P-BGDKI		Mono	90-276 AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT2324/79R	507	LC1.2A			P-BGDKI		AV S	90-276 AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT2324/83R	507	LC1.2A			P-BGDKI		AV S	90-276 AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT3323/56S	377	LC1.1A			P-BGDKI,S-BGDKK1S-BGDKK1,N-M/4.43(5.5)/4.43		P-BGDKI	90-276AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT3323/67R	377	LC1.1A			P-BGDKI,S-BGDKK1S-BGDKK1,N-M/4.43(5.5)/4.43		P-BGDKI	90-276AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT3323/69S	375	LC1.1A			P-BGDKI,S-BGDKK1S-BGDKK1,N-M/4.43(5.5)/4.43		P-BGDKI	90-276AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT3324/56R	397	LC1.1A			P-BGDKI,N-M		AV S	90-276 AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT3324/56R	397	LC1.1A			P-BGDKI,N-M		AV S	90-276 AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT3324/67S	377	LC1.2A			P-BGDKI		AV S	90-276 AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT3324/69R	397	LC1.2A			P-BGDKI		AV S	90-276 AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT3324/71R	397	LC1.2A			P-BGDKI		AV S	90-276 AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT3324/79R	397	LC1.2A			P-BGDKI		AV S	90-276 AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT3324/83R	397	LC1.2A			P-BGDKI		AV S	90-276 AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT4459/01	340	LC1.2A			P-BGDKI,S-BGDKLL		P-BGDKI	90-276AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT4459/05	340	LC1.2A			P-BGDKI,S-BGDK		P-BGDKI	90-276AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT4459/58	340	LC1.2A			P-BGDKI,S-BGDK		P-BGDKI	90-276AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT5207/60	459	LC1.2A			P-BGDKI,S-BGDKK1S-BGDKK1,N-M		P-BGDKI	90-276AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT5217/60	552	LC1.2E			P-BGDKI,S-BGDKK1S-BGDKK1,N-M		P-BGDKI	90-276AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT529A/65R	552	LC1.2L			P-BGDKI,S-BGDKK1S-BGDKK1,N-M		P-BGDKI	90-276AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT5317/60	551	LC1.2E			P-BGDKI,S-BGDKLL		P-BGDKI	90-276AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT5409/01	420	LC1.2E			P-BGDKI,S-BGDKLL		P-BGDKI	90-276AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT5458/01	353	LC4E			P-BGDKI,S-BGDKLL		P-BGDKI	90-276AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT5509/01	491	LC4E			P-BGDKI,S-BGDKLL		P-BGDKI	90-276AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT5518/01	491	LC4E			P-BGDKI,S-BGDKLL		P-BGDKI	90-276AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT5518/05	491	LC4E			P-BGDKI,S-BGDKLL		P-BGDKI	90-276AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT5518/01	491	LC4E			P-BGDKI,S-BGDK		P-BGDKI	90-276AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT5618/01	490	LC4E			P-BGDKI,S-BGDKLL		P-BGDKI	90-276AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT5618/01	490	LC4E			P-BGDKI,S-BGDKLL		P-BGDKI	90-276AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT5618/58	490	LC4E			P-BGDKI,S-BGDK		P-BGDKI	90-276AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
21PT6341/44	484	LC3.1L			P-BGDKI,S-BGDK		P-BGDKI	90-276AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
23FW5522/037	518	LC4.2U			P-BGDKI,S-BGDKK1S-BGDKK1,N-M/4.43(5.5)		P-BGDKI	90-276AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
23FW9955/935	427	LC3U			P-BGDKI,S-BGDKK1S-BGDKK1,N-M/4.43(5.5)		P-BGDKI	90-276AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
23HF9472/12	493	LC4.2E			P-BGDKI,S-BGDKK1S-BGDKK1,N-M/4.43(5.5)		P-BGDKI	90-276AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
23HF9546/569I	427	LC03E			P-BGDKI,S-BGDKLL		P-BGDKI	90-276AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
23HW8801/12	421	LC03E			P-BGDKI,S-BGDKLL		P-BGDKI	90-276AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	
23HW8801/69	427	LC03A			P-BGDKI,S-BGDKK1S-BGDKK1,N-M/4.43(5.5)		P-BGDKI	90-276AutoV					TEDE9-228B	0	215	65	0	208	145	92	4	

Model Number Survey

MODEL	STYLING	CHASSIS	RC		SYSTEM P = PAL S = SECAM N = NTSC	SOUND N = NICAM F = FM/IFM		SIZE	VOLT RANGE		TUNER	OPTION CODES				
								w/whd (cm)				1 2 3	4	5	6	7 8
233HW8802112	421	LC08E	RC1904200801	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	2CS-BG/AV S/N-BG	AutoMulti-Voltage	7138x8	URI1316/A IH-3	URI1316/A IH-3	See sticker in set				
233HW8802109	427	LC03A	RC1904100901	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	F-Korea/BG/China,N-BGDKL,BI NICAM BGD/2CS-BG	AutoMulti-Voltage	65x102x95	URI1316/A IH-3	URI1316/A IH-3	205 251 238	221	224	0	0
233MW9110137	427	LC03U	RC1904100601	N-M	N-M	N-M	AV S-B-DBX	AutoMulti-Voltage	63x44x95	URI1336/A F S H-3	URI1336/A F S H-3	205 251 238	221	224	0	0
233PF6946112	494	LC4.1E	RC1939502101	N-M	N-M	N-M	B-DBX	AutoMulti-Voltage	69x42x22	URI1336/A F I S H-3	URI1336/A F I S H-3	192 1	140	192	180	0
233PF6946158	517	LC4.1U	RC1904100601	N-M	N-M	N-M	B-DBX	AutoMulti-Voltage	7138x8	URI1336/A F S H-3	URI1336/A F S H-3	See sticker in set				
233PF6946157	427	LC03E	RC1904200801	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	F-BG,N-BGDKL,BI NICAM BG/2CS-BG	AutoMulti-Voltage	7138x8	URI1316/A IH-3	URI1316/A IH-3	See sticker in set				
233PF6945112A	421	LC4.2E	RC1939503001	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	F-BG,N-BGDKL,BI NICAM BG/2CS-BG	AutoMulti-Voltage	7138x8	URI1316/A IH-3	URI1316/A IH-3	See sticker in set				
233PF6946137	483	LC4.2U	RC1939503001	N-M	N-M	N-M	P-DBX	AutoMulti-Voltage	7138x8	URI1336/A F I S H-3	URI1336/A F I S H-3	See sticker in set				
233PF6946179	483	LC4.2A	RC1939502001	P-BGDKL S-BGDKLL S-BGDKLL'	P-BGDKL S-BGDKLL S-BGDKLL'	P-BGDKL S-BGDKLL S-BGDKLL'	F-Korea/BG/China,N-BGDKL,BI NICAM BGD/2CS-BG	AutoMulti-Voltage	7138x8	URI1316/A IH-3	URI1316/A IH-3	See sticker in set				
233PF6946196	483	LC4.2E	RC1939502001	P-BGDKL S-BGDKLL S-BGDKLL'	P-BGDKL S-BGDKLL S-BGDKLL'	P-BGDKL S-BGDKLL S-BGDKLL'	F-Korea/BG/China,N-BGDKL,BI NICAM BGD/2CS-BG	AutoMulti-Voltage	7138x8	URI1316/A IH-3	URI1316/A IH-3	See sticker in set				
233PF695612	513	LC4.2A	RC1953805001	P-BGDKL S-BGDKLL S-BGDKLL'	P-BGDKL S-BGDKLL S-BGDKLL'	P-BGDKL S-BGDKLL S-BGDKLL'	F-Korea/BG/China,N-BGDKL,BI NICAM BGD/2CS-BG	AutoMulti-Voltage	68x43x24	URI1316/A IH-3	URI1316/A IH-3	128 180 12	0	252	95	128
233PF695617	518	LC4.2A	RC1903803001	P-BGDKL S-BGDKLL S-BGDKLL'	P-BGDKL S-BGDKLL S-BGDKLL'	P-BGDKL S-BGDKLL S-BGDKLL'	F-Korea/BG/China,N-BGDKL,BI NICAM BGD/2CS-BG	AutoMulti-Voltage	68x43x24	URI1316/A IH-3	URI1316/A IH-3	See sticker in set				
233PF6956198	433	LC4.2U	RC1903803001	N-M	N-M	N-M	B-DBX	AutoMulti-Voltage	7138x8	URI1336/A F I S H-3	URI1336/A F I S H-3	See sticker in set				
242PF6956197	336	LC4.1U	RC1903803001	N-M	N-M	N-M	B-DBX	AutoMulti-Voltage	90-140V	URI1336/A F I S H-3	URI1336/A F I S H-3	See sticker in set				
242PF6956197R	469	LC4.1U	RC1903803001	N-M	N-M	N-M	B-DBX	AutoMulti-Voltage	90-140V	URI1336/A F I S H-3	URI1336/A F I S H-3	See sticker in set				
242PW6511901	481	LC4E	RC1903900101	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	F-BG Mono,N-BGDKL	AutoMulti-Voltage	68x47x52	URI1316/A I-4	URI1316/A I-4	See sticker in set				
242PW6511805	491	LC4E	RC1903900101	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	F-BG Mono,N-BGDKL	AutoMulti-Voltage	68x45x43	URI1316/A I-4	URI1316/A I-4	See sticker in set				
25HT3317633	507	LC4HA	RC1939501801	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	2CS-BGDKL F-BGChina,N-BGDKL	AutoMulti-Voltage	90-276AuV	URI1356/A I G-3	URI1356/A I G-3	See sticker in set				
25HT3317633	507	LC4HA	RC1939501801	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	AV S,F-BG Mono,N-BGDKL	AutoMulti-Voltage	90-276AuV	URI1356/A I G-3	URI1356/A I G-3	See sticker in set				
25HT5405101 B	525	LC4E	Not applicable	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	AV S,F-BG Mono,N-BGDKL	AutoMulti-Voltage	68x47x54	URI1316/A I-4	URI1316/A I-4	See sticker in set				
25HT5405101 Z	352	LC4E	Not applicable	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	AV S,F-BG Mono,N-BGDKL	AutoMulti-Voltage	68x47x54	URI1316/A I-4	URI1316/A I-4	See sticker in set				
25HT5405105	525	LC4E	Not applicable	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	AV S,F-BG Mono,N-BGDKL	AutoMulti-Voltage	68x47x54	URI1316/A I-4	URI1316/A I-4	See sticker in set				
25HT5405106	525	LC4E	Not applicable	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	AV S,F-BG Mono,N-BGDKL	AutoMulti-Voltage	68x47x54	URI1316/A I-4	URI1316/A I-4	See sticker in set				
25PT33232657R	326	LC1.1A	RC1939503001	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	AV S,F-BG Mono,N-BGDKL	AutoMulti-Voltage	72x62x61	TEDE9-2288	TEDE9-2288	0 215 193	1	236	145	28
25PT3323269S	326	LC1.1A	RC1904200101	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	AV S	AutoMulti-Voltage	72x62x61	TEDE9-2288	TEDE9-2288	0 215 193	1	236	145	28
25PT3323271R	326	LC1.1A	RC1939503001	N-M/4.43(5.5)/4.43	N-M/4.43(5.5)/4.43	N-M/4.43(5.5)/4.43	BTSC	AutoMulti-Voltage	72x62x61	TEDE9-2288	TEDE9-2288	0 215 193	162	108	145	16
25PT3323276S	326	LC1.1A	RC1939503001	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	AV S	AutoMulti-Voltage	68x47x52	TEDE9-305A	TEDE9-305A	0 215 209	170	252	145	92
25PT3323267R	326	LC1.1A	RC1939503001	N-P-BGDKL P-BH S-BGDKK1	N-P-BGDKL P-BH S-BGDKK1	N-P-BGDKL P-BH S-BGDKK1	AV S,BI-FBG/China,N-BGDKL,BI NICAM BGD/2CS-BGDKL	AutoMulti-Voltage	72x62x61	TEDE9-2288	TEDE9-2288	0 215 209	170	252	145	92
25PT3323269S	326	LC1.1A	RC1904200101	P-BGDKL S-BGDKLL S-BGDKLL'	P-BGDKL S-BGDKLL S-BGDKLL'	P-BGDKL S-BGDKLL S-BGDKLL'	AV S,BI-FBG,BGDKL,BI NICAM BGD/2CS-BGDKL	AutoMulti-Voltage	72x62x61	TEDE9-2288	TEDE9-2288	0 215 109	170	252	145	92
25PT4458001	523	LC4E	RC1903900101	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	F-BG Mono,N-BGDKL	AutoMulti-Voltage	68x47x54	URI1316/A I-4	URI1316/A I-4	See sticker in set				
25PT4520463R	507	LC4E	RC1A015	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	2CS-BGDKL F-BGChina,N-BGDKL	AutoMulti-Voltage	68x47x54	URI1316/A I-4	URI1316/A I-4	See sticker in set				
25PT5207603S	326	LC1.1A	RC1904200101	P-BGDKL S-BGDKLL S-BGDKLL'	P-BGDKL S-BGDKLL S-BGDKLL'	P-BGDKL S-BGDKLL S-BGDKLL'	AV S,F-BG Mono,N-BGDKL	AutoMulti-Voltage	150-276V	URI1356/A I G-3	URI1356/A I G-3	161 169 128	33	252	136	0
25PT5307160S	326	LC1.1A	RC1904200101	P-BGDKL S-BGDKLL S-BGDKLL'	P-BGDKL S-BGDKLL S-BGDKLL'	P-BGDKL S-BGDKLL S-BGDKLL'	F-BG,N-BGDKL,BI NICAM BGD/2CS-BGDKL	AutoMulti-Voltage	77x67x62	TEDE9-228A	TEDE9-228A	See sticker in set				
26HF9472012	493	LC4.2E	RC155380101	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	F-BG,N-BGDKL,BI NICAM BG/2CS-BG	AutoMulti-Voltage	79x44x12	URI1316/A IH-3	URI1316/A IH-3	See sticker in set				
26PF6946112	484	LC4.2E	RC155380101	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	F-BG,N-BGDKL,BI NICAM BG/2CS-BG	AutoMulti-Voltage	79x44x12	URI1316/A IH-3	URI1316/A IH-3	See sticker in set				
26PF6946198	518	LC4.2A	RC1904200101	P-BGDKL S-BGDKLL S-BGDKLL'	P-BGDKL S-BGDKLL S-BGDKLL'	P-BGDKL S-BGDKLL S-BGDKLL'	F-Korea/BG/China,N-BGDKL,BI NICAM BGD/2CS-BG	AutoMulti-Voltage	79x51x27	URI1316/A IH-3	URI1316/A IH-3	128 180 12	0	252	95	128
26PF6956112	483	LC4.2E	RC1553802001	P-BGDKL S-BGDKLL S-BGDKLL'	P-BGDKL S-BGDKLL S-BGDKLL'	P-BGDKL S-BGDKLL S-BGDKLL'	F-Korea/BG/China,N-BGDKL,BI NICAM BGD/2CS-BG	AutoMulti-Voltage	79x51x27	URI1316/A IH-3	URI1316/A IH-3	See sticker in set				
26PF6956179	518	LC4.2A	RC1553805001	P-BGDKL S-BGDKLL S-BGDKLL'	P-BGDKL S-BGDKLL S-BGDKLL'	P-BGDKL S-BGDKLL S-BGDKLL'	F-Korea/BG/China,N-BGDKL,BI NICAM BGD/2CS-BG	AutoMulti-Voltage	79x51x27	URI1316/A IH-3	URI1316/A IH-3	128 180 12	0	252	95	128
26PF6956198	484	LC4.2U	RC1553803001	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	B-DBX	AutoMulti-Voltage	79x44x12	URI1336/A F S H-3	URI1336/A F S H-3	See sticker in set				
26PF6956197	491	LC4E	RC1904201701	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	F-BG,N-BGDKL	AutoMulti-Voltage	77x50x54	TEDE9-717A	TEDE9-717A	See sticker in set				
26PDW6559101	353	LC1H.1E	RC6670201	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	N-BGDKL F-BG Mono,AV S	AutoMulti-Voltage	73x58x46	TEDE9-717A	TEDE9-717A	See sticker in set				
28HT5405400S5	524	LC4E	Not applicable	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	AV S,F-BG Mono,N-BGDKL	AutoMulti-Voltage	77x50x54	URI1316/A I-4	URI1316/A I-4	See sticker in set				
28HT5405012	490	LC4E	Not applicable	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	AV S,F-BG Mono,N-BGDKL	AutoMulti-Voltage	77x50x49	URI1316/A I-4	URI1316/A I-4	See sticker in set				
28HW650501Z	490	LC4E	Not applicable	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	AV S,F-BG Mono,N-BGDKL	AutoMulti-Voltage	77x50x49	URI1316/A I-4	URI1316/A I-4	See sticker in set				
28PT440801	524	LC4E	RC1903900101	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	F-BG Mono,N-BGDKL	AutoMulti-Voltage	77x50x49	URI1316/A I-4	URI1316/A I-4	See sticker in set				
28PT4411801	524	LC4E	RC1903900101	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	F-BG Mono,N-BGDKL	AutoMulti-Voltage	77x50x49	URI1316/A I-4	URI1316/A I-4	See sticker in set				
28PT4411805	524	LC4E	RC1903900101	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	F-BG Mono,N-BGDKL	AutoMulti-Voltage	77x50x49	URI1316/A I-4	URI1316/A I-4	See sticker in set				
28PT445801	523	LC4E	RC1903900101	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	F-BG Mono,N-BGDKL	AutoMulti-Voltage	77x50x49	URI1316/A I-4	URI1316/A I-4	See sticker in set				
28PT445805	523	LC4E	RC1903900101	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	F-BG Mono,N-BGDKL	AutoMulti-Voltage	77x50x49	URI1316/A I-4	URI1316/A I-4	See sticker in set				
28PT7109012	523	LC4E	RC1903900101	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	F-BG Mono,N-BGDKL	AutoMulti-Voltage	77x50x49	URI1316/A I-4	URI1316/A I-4	See sticker in set				
28PT7129012	464	A02E	RC1904201101	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	F-BG,Czech,N-BGDKL,BI NICAM BG/2CS-BG	AutoMulti-Voltage	73x59x46	URI1316/A I-4	URI1316/A I-4	See sticker in set				
28PT7139012	464	A02E	RC1904201101	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	F-BG,Czech,N-BGDKL,BI NICAM BG/2CS-BG	AutoMulti-Voltage	73x59x46	URI1316/A I-4	URI1316/A I-4	See sticker in set				
28PT7159012	464	A02E	RC1904201101	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	F-BG,Czech,N-BGDKL,BI NICAM BG/2CS-BG	AutoMulti-Voltage	73x59x46	URI1316/A I-4	URI1316/A I-4	See sticker in set				
28PW600801	522	LC4E	RC1904201101	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	F-BG,Czech,N-BGDKL,BI NICAM BG/2CS-BG	AutoMulti-Voltage	73x59x46	URI1316/A I-4	URI1316/A I-4	See sticker in set				
28PW600805	522	LC4E	RC1903900101	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	F-BG Mono,N-BGDKL	AutoMulti-Voltage	77x50x49	URI1316/A I-4	URI1316/A I-4	See sticker in set				
28PW600818	522	LC4E	RC1903900101	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	F-BG Mono,N-BGDKL	AutoMulti-Voltage	77x50x49	URI1316/A I-4	URI1316/A I-4	See sticker in set				
28PW600818	522	LC4E	RC1903900101	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	F-BG Mono,N-BGDKL	AutoMulti-Voltage	77x50x49	URI1316/A I-4	URI1316/A I-4	See sticker in set				
28PW600818	522	LC4E	RC1903900101	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	F-BG Mono,N-BGDKL	AutoMulti-Voltage	77x50x49	URI1316/A I-4	URI1316/A I-4	See sticker in set				
28PW600818	522	LC4E	RC1903900101	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	F-BG Mono,N-BGDKL	AutoMulti-Voltage	77x50x49	URI1316/A I-4	URI1316/A I-4	See sticker in set				
28PW600818	522	LC4E	RC1903900101	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	F-BG Mono,N-BGDKL	AutoMulti-Voltage	77x50x49	URI1316/A I-4	URI1316/A I-4	See sticker in set				
28PW600818	522	LC4E	RC1903900101	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	F-BG Mono,N-BGDKL	AutoMulti-Voltage	77x50x49	URI1316/A I-4	URI1316/A I-4	See sticker in set				
28PW600818	522	LC4E	RC1903900101	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	F-BG Mono,N-BGDKL	AutoMulti-Voltage	77x50x49	URI1316/A I-4	URI1316/A I-4	See sticker in set				
28PW600818	522	LC4E	RC1903900101	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	F-BG Mono,N-BGDKL	AutoMulti-Voltage	77x50x49	URI1316/A I-4	URI1316/A I-4	See sticker in set				
28PW600818	522	LC4E	RC1903900101	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	F-BG Mono,N-BGDKL	AutoMulti-Voltage	77x50x49	URI1316/A I-4	URI1316/A I-4	See sticker in set				

Model Number Survey

MODEL	STYLING	CHASSIS	PC	SYSTEM		SOUND			VOLTRANCE		OPTION CODES							
				S. -PAL S. -SECAM N. -NTSC	P. -FM F. -FM/AM	N. -NICAM F. -FM/AM		SIZE			1	2	3	4	5	6	7	8
28PW6518/58	481	L04E	RC19035003/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	7760049	UV1316EA I-4								
28PW6558/01	481	L04E	RC4332/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	7760049	TEDES-717A								
28PW6618/01	480	L04E	RC4332/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	7760049	UV1316EA I-4								
28PW6618/58	480	L04E	RC4332/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220V	7760049	UV1316EA I-4								
28PW6620/12S	439	A02E	RC1904201/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	7965151	UV1317A I X U-3								
28PW6620/12	542	A02E	RC4330/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	7965151	UV1317A I X U-3								
28PW6719/05	460	A02E	RC4330/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	7965151	UV1317A I X U-3								
28PW6719/12	460	A02E	RC4330/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	7965151	UV1317A I X U-3								
28PW6720/12	544	A02E	RC2080	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	484	EM8E	RC2080	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	484	EM8E	RC4337/01B	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4337/01B	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	220-240V	8062452	UV1318SA I-3								
28PW6930/01S	456	EM8E	RC4301/01	P-BGDKL S-BGDKLL'	P-BGDKL S-BGDKLL'	P-BG												

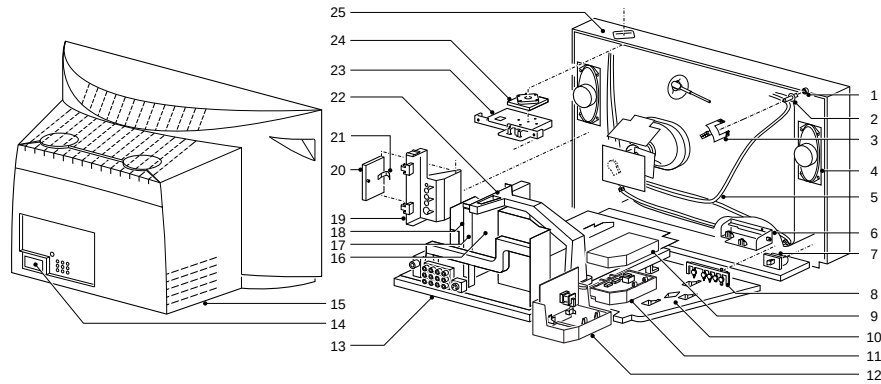
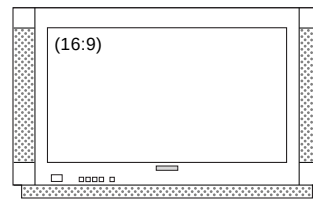
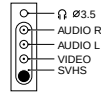
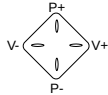
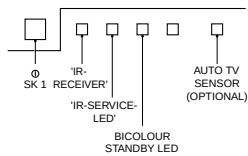
Model Number Survey

MODEL	STYLING	CHASSIS	RC	SYSTEM P...=PAL S...=SECAM N...=NTSC		SOUND N...=NICAM F...=FM/AM	SIZE w x h x d (cm)		VOLTRANGE	TUNER	OPTION CODES					
											1 2 3	4	5	6	7	8
30PF946/79	504	LC4.6	RC4335/01	P-BGDKIM,S-BGDK,N-M		F-Korea/BG/China,N-BGDKL,BI NICAM BGD/2CS-BG	AutoMulti-Voltage	90x48x11	AutoMulti-Voltage	UV131.85A IH-3	See sticker in set					
30PF946/93	504	LC4.6A	RC4335/01	P-BGDKIM,S-BGDK,N-M		F-Korea/BG/China,N-BGDKL,BI NICAM BGD/2CS-BG	AutoMulti-Voltage	90x48x11	AutoMulti-Voltage	UV131.85A IH-3	See sticker in set					
30PF946D/37	504	LC4.6U	RC4334/01	P-BGDKIM,S-BGDK,N-M		B-DX	AutoMulti-Voltage	90x48x11	AutoMulti-Voltage	UV1338A F S H-4	See sticker in set					
30PF946D/78	504	LC4.6	RC4334/01	P-BGDKIM,S-BGDK,N-M		B-DX	AutoMulti-Voltage	90x48x11	AutoMulti-Voltage	UV1338A F S H-4	See sticker in set					
30PF975/12A	429	FTL13E	RC4301/01	P-BGDKIM,S-BGDK,N-M		AV S,B-DX	100-250V	198-264V	198-264V	UV131.85A I-3	See sticker in set					
30PF975/77	429	FTL13E	RC4305/01	P-BGDKIM,S-BGDK,N-M		2CS-BG,NICAM-BGDK	100-250V	198-264V	198-264V	UV131.85A I-3	See sticker in set					
30PF975/78	429	FTL13E	RC4305/01	P-BGDKIM,S-BGDK,N-M		2CS-BG,NICAM-BGDK	100-110V	198-264V	198-264V	UV131.85A I-3	See sticker in set					
32DW655/01	491	L04E	RC1904201/701	P-BGDKIM,S-BGDK,N-M		2CS-BG,NICAM-BGDK	220-240V	86K5X54	86K5X54	TEDE9X717A	See sticker in set					
32DW655/05	491	L04E	RC1904201/701	P-BGDKIM,S-BGDK,N-M		F-BG,N-BGDKL	220-240V	86K5X54	86K5X54	TEDE9X717A	See sticker in set					
32PF956/12	500	FTL3.1E	RC4304/01B	P-BGDKIM,S-BGDK,N-M		F-BG,N-BGDKL	220-240V	86K61X11	86K61X11	UV131.85A I H N-3	See sticker in set					
32PF956/37	498	FTL2.2U	RC4307/01B	P-BGDKIM,S-BGDK,N-M		F-BG,N-BGDKL	220-240V	100-250V	100-250V	TEDE9-705A	See sticker in set					
32PF956/61	498	FTL2.2A	RC4307/01B	P-BGDKIM,S-BGDK,N-M		F-BG,N-BGDKL	100-250V	100-250V	100-250V							
32PF956/69	498	FTL2.2A	RC4307/01B	P-BGDKIM,S-BGDK,N-M		F-BG,N-BGDKL	100-250V	100-250V	100-250V							
32PF956/93	498	FTL2.2A	RC4307/01B	P-BGDKIM,S-BGDK,N-M		F-BG,N-BGDKL	100-250V	100-250V	100-250V							
32PF956/98	498	FTL2.2A	RC4307/01B	P-BGDKIM,S-BGDK,N-M		F-BG,N-BGDKL	100-250V	100-250V	100-250V							
32PF986/12	499	FTL2.1E	RC4307/01B	P-BGDKIM,S-BGDK,N-M		AV S,F-BG,N-BGDKI	220-240V	100x80x10	100x80x10	UV131.85T/AH-3	See sticker in set					
32PF986/37	500	FTL2.1U	RC4307/01B	P-BGDKIM,S-BGDK,N-M		AV S,BTSC	100-250V	100x80x10	100x80x10	TEDE9-705A	See sticker in set					
32PF986/78	499	FTL2.1L	RC4307/01B	P-BGDKIM,S-BGDK,N-M		AV S,F-BG,N-BGDKI	150-276V	85x55x54	85x55x54	TEDE9-228B	0 223 149					
32PW4523/79R	457	L01.1A	RC19042001/01	P-BGDKIM,S-BGDK,N-M		F-BG,Mono,N-BGDKL	220-240V	89x57x54	89x57x54	UV131.6E/A I-4	See sticker in set					
32PW640/05	488	L04E	RC19039001/01	P-BGDKIM,S-BGDK,N-M		F-BG,Mono,N-BGDKL	220-240V	89x57x54	89x57x54	UV131.6E/A I-4	See sticker in set					
32PW640/08	488	L04E	RC19039001/01	P-BGDKIM,S-BGDK,N-M		F-BG,Mono,N-BGDKL	220-240V	89x57x54	89x57x54	UV131.6E/A I-4	See sticker in set					
32PW651/01	491	L04E	RC19039001/01	P-BGDKIM,S-BGDK,N-M		F-BG,Mono,N-BGDKL	220-240V	89x57x54	89x57x54	UV131.6E/A I-4	See sticker in set					
32PW651/05	491	L04E	RC19039001/01	P-BGDKIM,S-BGDK,N-M		F-BG,Mono,N-BGDKL	220V	86x55x54	86x55x54	UV131.6E/A I-4	See sticker in set					
32PW651/58	491	L04E	RC19039001/01	P-BGDKIM,S-BGDK,N-M		F-BG,Mono,N-BGDKL	220-240V	86x52x54	86x52x54	UV131.6E/A I-4	See sticker in set					
32PW661/01	490	L04E	RC4332/01	P-BGDKIM,S-BGDK,N-M		F-BG,Mono,N-BGDKL	220-240V	86x55x54	86x55x54	UV131.6E/A I-4	See sticker in set					
32PW661/05	490	L04E	RC4332/01	P-BGDKIM,S-BGDK,N-M		F-BG,Mono,N-BGDKL	220-240V	86x55x54	86x55x54	UV131.6E/A I-4	See sticker in set					
32PW869/12S	439	A02E	RC19042011/01	P-BGDKIM,S-BGDK,N-M		F-BG/Czech,N-BGDKL,BI NICAM BG/2CS-BG	220-240V	77x49x51	77x49x51	UV131.6E/A I-4	See sticker in set					
32PW8620/12	542	A02E	RC19042011/01	P-BGDKIM,S-BGDK,N-M		F-BG/Czech,N-BGDKL,BI NICAM BG/2CS-BG	220-240V	85x55x56	85x55x56	UV131.6E/A I-4	See sticker in set					
32PW871/05	305	EM5E	RC1904202/01	P-BGDKIM,S-BGDK,N-M		F-BG/Czech,N-BGDKL,BI NICAM BG/2CS-BG	220-240V	85x55x56	85x55x56	UV131.7A I X U-3	See sticker in set					
32PW871/09	463	A02E	RC4330/01H	P-BGDKIM,S-BGDK,N-M		F-BG/Czech,N-BGDKL,BI NICAM BG/2CS-BG	220-240V	85x55x56	85x55x56	UV131.6E/A I-4	See sticker in set					
32PW871/12	487	A02E	RC4330/01H	P-BGDKIM,S-BGDK,N-M		F-BG/Czech,N-BGDKL,BI NICAM BG/2CS-BG	220-240V	85x55x56	85x55x56	UV131.6E/A I-4	See sticker in set					
32PW8720/12	544	A02E	RC4330/01H	P-BGDKIM,S-BGDK,N-M		F-BG/Czech,N-BGDKL,BI NICAM BG/2CS-BG	220-240V	86x55x54	86x55x54	UV131.6E/A I-4	See sticker in set					
32PW8729/05	531	A02E	RC4330/01H	P-BGDKIM,S-BGDK,N-M		F-BG/Czech,N-BGDKL,BI NICAM BG/2CS-BG	220-240V	86x55x54	86x55x54	UV131.6E/A I-4	See sticker in set					
32PW8739/12	531	A02E	RC4330/01H	P-BGDKIM,S-BGDK,N-M		F-BG/Czech,N-BGDKL,BI NICAM BG/2CS-BG	220-240V	86x55x54	86x55x54	UV131.6E/A I-4	See sticker in set					
32PW8759/05	531	A02E	RC4330/01H	P-BGDKIM,S-BGDK,N-M		F-BG/Czech,N-BGDKL,BI NICAM BG/2CS-BG	220-240V	86x55x54	86x55x54	UV131.6E/A I-4	See sticker in set					
32PW8759/12	531	A02E	RC4330/01H	P-BGDKIM,S-BGDK,N-M		F-BG/Czech,N-BGDKL,BI NICAM BG/2CS-BG	220-240V	86x55x54	86x55x54	UV131.6E/A I-4	See sticker in set					
32PW881/12	531	A02E	RC4330/01H	P-BGDKIM,S-BGDK,N-M		F-BG/Czech,N-BGDKL,BI NICAM BG/2CS-BG	220-240V	86x55x54	86x55x54	UV131.6E/A I-4	See sticker in set					
32PW930/05	456	EM5.2E	RC4337/01B	P-BGDKIM,S-BGDK,N-M		F-BG/Czech,N-BGDKL	220-240V	84x55x54	84x55x54	UV131.85A I-3	See sticker in set					
32PW930/12	456	EM5.2E	RC4337/01B	P-BGDKIM,S-BGDK,N-M		F-BG/Czech,N-BGDKL	220-240V	84x55x54	84x55x54	UV131.85A I-3	See sticker in set					
32PW939/12	456	EM5.2E	RC2080	P-BGDKIM,S-BGDK,N-M		F-BG/Czech,N-BGDKL	220-240V	86x68x68	86x68x68	UV131.85A I-3	See sticker in set					
32PW939/12	456	EM5.2E	RC4301/01	P-BGDKIM,S-BGDK,N-M		F-BG/Czech,N-BGDKL	220-240V	86x68x68	86x68x68	UV131.85A I-3	See sticker in set					
32PW950/05	456	EM5.3E	RC4301/01	P-BGDKIM,S-BGDK,N-M		F-BG/Czech,N-BGDKL	220-240V	86x68x68	86x68x68	UV131.85A I-3	See sticker in set					
32PW950/12	456	EM5.3E	RC4301/01	P-BGDKIM,S-BGDK,N-M		F-BG/Czech,N-BGDKL	220-240V	86x68x68	86x68x68	UV131.85A I-3	See sticker in set					
32PW976/05	406	EM5E	RC2044/01	P-BGDKIM,S-BGDK,N-M		N-BGDKL,F-BG/Czech	220-240V	85x55x54	85x55x54	UV131.85A I-3	See sticker in set					
32PW976/12	406	EM5E	RC4301/01	P-BGDKIM,S-BGDK,N-M		N-BGDKL,F-BG/Czech	220-240V	85x55x54	85x55x54	UV131.85A I-3	See sticker in set					
34HT13312/3R	537	L04HA	RC19335018/01	P-BGDKIM,S-BGDK,N-M		2CS-BGDK,F-BG/China,N-BGDKI	150-276V	150-276V	150-276V	UV1356A/A I G-3	161 69 128	33	252	152	0	0
34PT322/493R	536	L04A	RC19335003/01	P-BGDKIM,S-BGDK,N-M		2CS-BGDK,F-BG/China,N-BGDKI	150-276 V	150-276V	150-276 V	UV1356A/A I G-3	161 69 128	33	252	152	0	0
34PT325/93	536	L04A	RC19335003/01	P-BGDKIM,S-BGDK,N-M		2CS-BGDK,F-BG/China,N-BGDKI	150-276V	150-276V	150-276V	UV1356A/A I G-3	161 21 128	33	252	152	0	0
34PT452/493R	537	L04A	RC19335003/01	P-BGDKIM,S-BGDK,N-M		2CS-BGDK,F-BG/China,N-BGDKI	150-276V	150-276V	150-276V	UV1356A/A I G-3	161 21 128	33	252	152	0	0
34PT7333/393R	507	L04A	RC19335003/01	P-BGDKIM,S-BGDK,N-M		F-Korea/BG/China,N-BGDKL,BI NICAM BGD/2CS-BG	90-276AuoV	90-276AuoV	90-276AuoV	TEDE9-200A	185 141 128	33	252	136	0	0
34PT1832/269R	520	EM1.1A	RC19042001/01	P-BGDKIM,S-BGDK,N-M		F-Korea/BG/China,N-BGDKL,BI NICAM BGD/2CS-BG	160-276V	160-276V	160-276V	TEDE9-200A	123 119 255	204	128	0	0	0
34PT1832/293R	535	EM1.1A	RC19042001/01	P-BGDKIM,S-BGDK,N-M		F-Korea/BG/China,N-BGDKL,BI NICAM BGD/2CS-BG	160-276V	160-276V	160-276V	TEDE9-200A	123 119 255	204	128	0	0	0
34PT1902/293R	535	EM1.1A	RC19042001/01	P-BGDKIM,S-BGDK,N-M		F-Korea/BG/China,N-BGDKL,BI NICAM BGD/2CS-BG	160-276V	160-276V	160-276V	TEDE9-200A	123 119 255	204	128	0	0	0
34PT1942/093R	382	EM5A	RC2049/01B	P-BGDKIM,S-BGDK,N-M		N-BGDK,2SC-DK	AutoMulti-Voltage	89x69x56	89x69x56	TEDE9X701A	See sticker in set					
34PT1942/569R	534	EM5.3A	RC4302	P-BGDKIM,S-BGDK,N-M		F-BG,N-BGDKI	AutoMulti-Voltage	AutoMulti-Voltage	AutoMulti-Voltage							
34PT1942/69R	534	EM5.3A	RC4302	P-BGDKIM,S-BGDK,N-M		F-BG,N-BGDKI	AutoMulti-Voltage	AutoMulti-Voltage	AutoMulti-Voltage							
34PT1942/69R	534	EM5.3A	RC4302	P-BGDKIM,S-BGDK,N-M		F-BG,N-BGDKI	AutoMulti-Voltage	AutoMulti-Voltage	AutoMulti-Voltage							
36PW719/05	487	A02E	RC4330/01	P-BGDKIM,S-BGDK,N-M		F-BG/Czech,N-BGDKL,BI NICAM BG/2CS-BG	220-240V	101x59x64	101x59x64	UV131.6E/A I-4	See sticker in set					
36PW719/12	487	A02E	RC4330/01	P-BGDKIM,S-BGDK,N-M		F-BG/Czech,N-BGDKL,BI NICAM BG/2CS-BG	220-240V	101x59x64	101x59x64	UV131.6E/A I-4	See sticker in set					
36PW930/05	404	EM5E	RC4330/01	P-BGDKIM,S-BGDK,N-M		F-BG/Czech,N-BGDKL,BI NICAM BG/2CS-BG	220-240V	89x57x54	89x57x54	UV131.85A I-3	See sticker in set					
36PW981/8/77	380	EM5L	RC2060/01B	P-BGDKIM,S-BGDK,N-M		B-DX	AutoMulti-Voltage	95x61x58	95x61x58	TEDE9X700A	See sticker in set					
37PF936/37	505	LC4.7	RC4334/01	P-BGDKIM,S-BGDK,N-M		F-BG,N-BGDKL	AutoMulti-Voltage	113x60x9	113x60x9	UV1338A F S H-4	See sticker in set					
37PF946/12	505	LC4.7	RC4333/01	P-BGDKIM,S-BGDK,N-M		F-BG,N-BGDKL	AutoMulti-Voltage	113x60x9	113x60x9	UV131.85A IH-3	See sticker in set					
37PF946D/10	505	LC4.7E	RC4302/01	P-BGDKIM,S-BGDK,N-M		F-BG,N-BGDKL,BI NICAM BG/2CS-BG	198-264V	113x68x10	113x68x10	UV131.85T/AH-3	See sticker in set					
37PF986/12	499	FTL2.1E	RC11235/0700	P-BGDKIM,S-BGDK,N-M		AV S,F-BG,N-BGDKI	220-240V	95-284AutoV	95-284AutoV	C-TT50206/CFT5510	See sticker in set					
37TA1437/16	403	TE1.1E	RC19355/009/01	P-BGDKIM,S-BGDK,N-M		Mono	220-240V	100-250V	100-250V	Not applicable	See sticker in set					
42FD955/469C	335	FM24A	RC19355/009/01	P-BGDKIM,S-BGDK,N-M		AV S	220-240V	100-250V	100-250V	Not applicable	See sticker in set					
42HF944/212	505	LC4.6E	RC19355/019/01	P-BGDKIM,S-BGDK,N-M		AV S,F-BG,N-BGDKL	AutoMulti-Voltage	AutoMulti-Voltage	AutoMulti-Voltage	UV1338A F S H-4	See sticker in set					
42HF944/298	505	LC4.7A	RC4334/01	P-BGDKIM,S-BGDK,N-M		B-DX	AutoMulti-Voltage	AutoMulti-Voltage	AutoMulti-Voltage	UV1338A F S H-4	See sticker in set					
42PF936D/37	505	LC4.7	RC4334/01	P-BGDKIM,S-BGDK,N-M		B-DX	AutoMulti-Voltage	AutoMulti-Voltage	AutoMulti-Voltage	UV1338A F S H-4	See sticker in set					
42PF936D/78	505	LC4.6L	RC4334/01	P-BGDKIM,S-BGDK,N-M		B-DX	AutoMulti-Voltage	AutoMulti-Voltage	AutoMulti-Voltage	UV1338A F S H-4	See sticker in set					

Model Number Survey

MODEL	STYLING	CHASSIS	RC			SOUND		SIZE		VOL RANGE		TUNER	OPTION CODES	4	5	6	7	8
				SYSTEM P...=PAL S...=SECAM N...=NTSC		N...=NICAM F...=FM/AM	withd (cm)						1	2	3			
42PF9945/69	335		RC2080	P-BGDKI,S-BGDKLL		AV S,BI NICAM BGD/2CS-BGDKI/2CS-BG	95-264AutoV											
42PF9946/12	505		RC433501			F-BG N-BGDKL BI NICAM BGD/2CS-BG	AutoMulti-Voltage						See sticker in set					
42PF9946/79	505		RC433501			F-Korea/BG/China,N-BGDKL BI NICAM BGD/2CS-BG	112x66x9						See sticker in set					
42PF9946/93	505		RC433501			F-Korea/BG/China,N-BGDKL BI NICAM BGD/2CS-BG	112x66x9						See sticker in set					
42PF9946/98	505		RC433501			F-Korea/BG/China,N-BGDKL BI NICAM BGD/2CS-BG	112x66x9						See sticker in set					
42PF9956/12	496		FTP2.2E			AV S,F-BG N-BGDKI	111x88x10						See sticker in set					
42PF9956/93	496		RC430201			F-BGDKI,S-BGDKI,S-BGDKK1,N-M4.43(5.5)	100-250V						See sticker in set					
42PF9966/12	496		FTP2.2E			P-BGDKI,S-BGDKLL	220-240V						See sticker in set					
42PF9966/37	496		RC430701B			P-BGDKI,S-BGDKLL	220-240V						See sticker in set					
42PF9966/93	496		RC430201			BTSC, F-BG,N-BGDKI	111x88x10						See sticker in set					
42PF9966/98	496		FTP2.2A			AV S, FM/AM (5-5.5, 7.4) (B/G), N-BGDKI	100-250V						See sticker in set					
42PF9976/37	496		FTL2.2U				111x88x10											
42PF9986/12	499		RC430701B				140-276V											
42PF9986/93	496		FTL2.1A															
42PF9986/98	496		RC430201															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															
42PF9986/98	496		RC430701B															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															
42PF9986/98	496		RC430701B															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															
42PF9986/98	496		RC430701B															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															
42PF9986/98	496		RC430701B															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															
42PF9986/98	496		RC430701B															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															
42PF9986/98	496		RC430701B															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															
42PF9986/98	496		RC430701B															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															
42PF9986/98	496		RC430701B															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															
42PF9986/98	496		RC430701B															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															
42PF9986/98	496		RC430701B															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															
42PF9986/98	496		RC430701B															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															
42PF9986/98	496		RC430701B															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															
42PF9986/98	496		RC430701B															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															
42PF9986/98	496		RC430701B															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															
42PF9986/98	496		RC430701B															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															
42PF9986/98	496		RC430701B															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															
42PF9986/98	496		RC430701B															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															
42PF9986/98	496		RC430701B															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															
42PF9986/98	496		RC430701B															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															
42PF9986/98	496		RC430701B															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															
42PF9986/98	496		RC430701B															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															
42PF9986/98	496		RC430701B															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															
42PF9986/98	496		RC430701B															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															
42PF9986/98	496		RC430701B															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															
42PF9986/98	496		RC430701B															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															
42PF9986/98	496		RC430701B															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															
42PF9986/98	496		RC430701B															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															
42PF9986/98	496		RC430701B															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															
42PF9986/98	496		RC430701B															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															
42PF9986/98	496		RC430701B															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															
42PF9986/98	496		RC430701B															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															
42PF9986/98	496		RC430701B															
42PF9986/12	499		FTL2.1E															
42PF9986/93	496		RC430201															

STYLING 305



STYLING 305.eps
040804

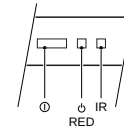
1bdgh*	3104 308 74023	CRT insert 32"
2acef*	4822 505 11195	CRT screw
2bdgh*	4822 502 21359	CRT screw
3acef*	4822 403 70906	Bracket fix deg. coil (4x)
3bdgh*	4822 404 31289	Bracket fix deg. coil (4x)
4	2422 264 00386	Loudspeaker
5acef*	2422 549 44621	Degaussing coil
5bdgh*	2422 549 44244	Degaussing coil
6	3104 304 21853	Bracket mains unit
7ab*	3104 307 98171	Mains knob
7cd*	3104 307 97721	Mains knob
7efgh*	3104 307 96232	Mains knob
8	3104 304 21871	Light guide
9abefgh*	3104 304 22762	Cover for Mains Harmonic panel
10	3104 304 22012	Bottom plate
11abefgh*	3104 304 22751	Bracket for Mains Harmonic panel
12abefgh*	3104 304 21652	Bracket for DAF/DC-shift panel
12cd*	3104 304 23041	Bracket for DAF/DC-shift panel
13abefgh*	3104 304 21293	Bracket for LSP
13cd*	3104 304 23001	Bracket for LSP
14b*	3104 304 22301	Service connector cover
14acdfehg*	3104 304 22312	Service connector cover
15ae*	3104 307 96331	Rear cover assy
15b*	3104 307 96342	Rear cover assy
15c*	3104 307 97381	Rear cover assy
15d*	3104 307 97391	Rear cover assy
15f*	3104 308 10221	Rear cover assy
15gh*	3104 307 96254	Rear cover assy
16	3104 301 23963	SSB shielding (bottom cover)
17abefgh*	3104 301 23942	SSB shielding (frame)
17cd*	3104 301 24121	SSB shielding (frame)
18	3104 301 23952	SSB shielding (top cover)
19abdfehg*	3104 304 24041	Bracket for Side I/O panel
19ce*	3104 304 21932	Bracket for Side I/O panel
20	3104 304 21911	Door Side I/O
21	3104 301 23972	Metal spring for door
21	3104 308 70381	Locking unit for door
22abefgh*	3104 304 25291	Bracket for LOT/SSB
22cd*	3104 304 23011	Bracket for LOT/SSB
23	3104 304 19794	Top Control bracket
24	3104 304 20921	Top Control keypad

25a*	3104 328 14813	Cabinet assy
25b*	3104 328 14804	Cabinet assy
25ce*	3104 328 15001	Cabinet assy
25d*	3104 328 14991	Cabinet assy
25f*	3104 328 20102	Cabinet assy
25gh*	3104 328 20132	Cabinet assy
a*	3104 300 12201	Word mark
b*	3104 300 12191	Word mark
cef*	4822 454 13455	Word mark
dgh*	4822 454 13399	Word mark
ace*	9301 852 40306	Picture tube W66ERF041X044
acef*	9301 899 90306	Picture tube W66ERF042X044
bd*	9301 852 00314	Picture tube W76ERF041X044
bdgh*	9301 880 70314	Picture tube W76ERF042X044
ab*	4822 157 11825	Rotation coil
cd*	3128 138 60651	Rotation coil
efgh*	3128 138 60661	Rotation coil
	4822 321 11493	Mains cord (/05)
	4822 321 11499	Mains cord (/12, /19, /58)
	2422 070 98132	Mains cord (/79)
	4822 402 11183	Mains cord holder
	3104 207 09532	Remote RC 2592/01B
	3104 300 20181	Adapter EURO to Cinch/SVHS (/79)
		Adapter EURO to 3 x Cinch for (/79)
	3104 300 20191	

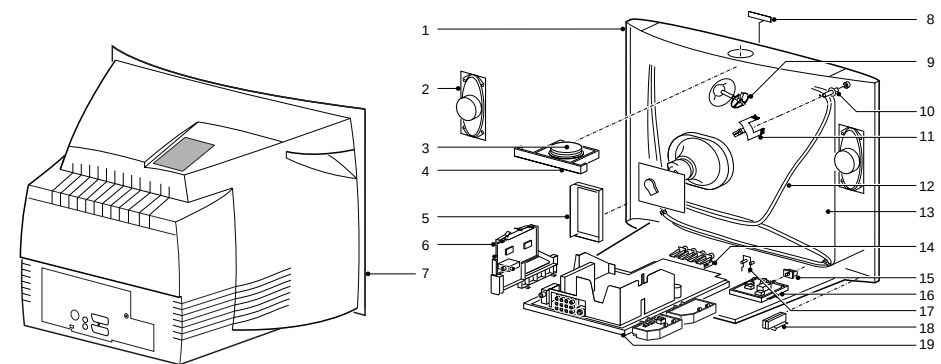
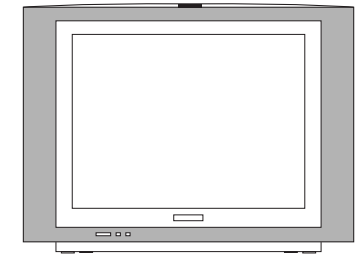
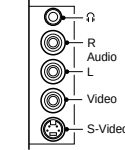
*a	28PW8707/xx
*b	32PW8707/xx
*c	28PW8807/xx
*d	32PW8807/xx
*e	28PW8817/xx
*f	28PW8717/xx
*g	32PW8717/xx
*h	32PW8757/xx
	28PW8818/xx
	32PW8818/xx
	32PW8858/xx

STYLING 312

FRONT + TOP CONTROL



SIDE I/O



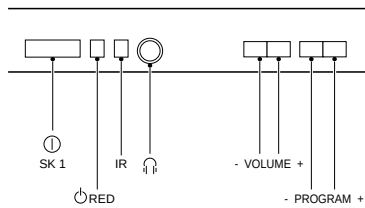
STYLING 312.eps
050804

1	3111 257 56891	Cabinet 29"
1d*	3141 047 69581	Cabinet 29"
2	3139 128 76301	Loudspeaker 8Ω 5W
2d*	2422 264 00479	Loudspeaker 16Ω 5W
3	3139 137 66921	Top control button
3d*	Not applicable	
4	3139 124 30381	Top control bracket
4d*	Not applicable	
5	3139 124 37662	Side AV bracket
5d*	3139 124 49861	Side AV bracket (2P+HP)
7	3111 257 56641	Rear cover
7d*	3141 057 80981	Rear cover (4AV)
8	4822 454 13455	Word mark Philips
8d*	3139 120 01601	Word mark
9	3111 254 23481	EHT & degaussing coil clamp
9c*	4822 404 31341	EHT & degaussing coil clamp
9d*	4822 532 61201	EHT spacer
10	4822 505 11195	CRT fixing screw
10d*	Not applicable	
11	3139 124 31122	Corner coil bracket
11c*	3104 304 14411	Corner coil bracket
11d*	Not applicable	
12	2422 549 44579	Degaussing coil 29"
12c*	3104 308 20381	Degaussing coil 29"
12d*	2422 549 44579	Degaussing coil 21" (multi volt-age)
15	3139 124 33801	Mains knob
15d*	3141 057 69591	Mains knob
16	3139 124 32522	Front interface bracket

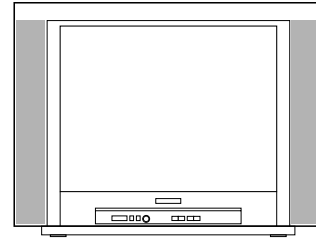
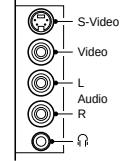
16d*	Not applicable	
17	3139 124 33811	Light guide
17d*	3139 124 47501	Light guide
18	4822 404 31291	Mains cord relief
19	3139 124 33541	Chassis tray
19d*	Not applicable	
	4822 532 13136	Insulator ring (VO)
a*	4822 321 11499	Mains cord EU
	2422 070 98236	Mains cord (UK)
	9322 162 09682	Picture tube 29"
b*	9322 177 18682	A68QCP891X604
		Picture tube 29"
c*	9301 915 20347	A68QCP891X628
		Picture tube 29"
		A68ERF012X013
*a	29PT5506/01, /01E, /58	
*b	29PT5507/01, /58	
*c	29PT5507/21	
*d	21PT2324/56R	

STYLING 326

FRONT + TOP CONTROL



SIDE I/O

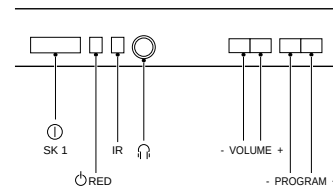


STYLING 326.eps
040804

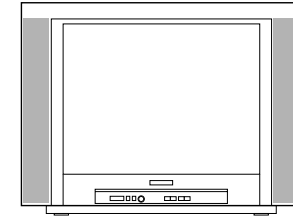
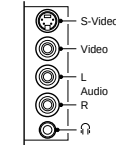
1	3139 124 34961	Cabinet	10b*	3139 177 65691	Mains knob
1a*	3139 138 15311	Cabinet DVD	11	3139 124 36311	Control knob
1b*	3139 137 79441	Cabinet ITV	11aef*	3141 057 64601	Control knob
1cefp*	3141 057 65211	Cabinet	11b*	3139 177 65681	Control knob
1d*	3139 177 60691	Cabinet	12	4822 532 61201	EHT spacer
1k*	3139 124 34962	Cabinet	13	4822 463 11226	Chassis guide (VO)
1o*	3141 047 66591	Cabinet	14	3139 124 39541	Side AV bracket (HP+3AV)
2	3139 124 41081	Rear cover (12AV) AP	14fghjo*	3141 054 22541	Side AV bracket (HP)
2b*	3139 124 37391	Rear cover (UIR) ITV	bhn*	9322 163 87682	Picture tube
2c*	3141 054 22421	Rear cover	op*	9301 935 20522	Picture tube
2d*	3139 124 35181	Rear cover			
3a*	2422 264 00411	Loudspeaker 16Ω 5W	*a	25PT2252	
3bp*	2422 264 00444	Loudspeaker 8Ω 10W	*b	25HT2212	
3fghjo*	2422 264 00409	Loudspeaker 8Ω 5W	*c	25PT4323	
4abcdef*	3141 050 00161	Word mark	*d	24PT6331	
4ghjkmnop*	3141 050 00291	Word mark	*e	25PT5307/60	
5	Not applicable		*f	25PT5207/60	
6	4822 505 11195	CRT fixing screw	*g	25PT3323/67R	
7abcdef*	4822 404 31434	Coil clamp	*h	25PT3323/69S	
7ghjkmn*	3141 054 22351	Corner coil bracket	*j	25PT3323/71R	
8	3106 107 30341	Degaussing coil (Latam only)	*k	25PT4323/56S	
8	3139 128 76341	Degaussing coil (Nafta only)	*m	25PT4323/67R	
8	4822 157 11537	Degaussing coil (multi voltage)	*n	25PT4323/69S	
8abc*	3139 128 23361	Degaussing coil (/79R only)	*o	25PT5207/60S	
8op*	3139 128 23371	Degaussing coil 25" (multi volt-age)	*p	25PT5307/60S	
9	3139 124 32221	Light guide			
10	3139 124 36331	Mains knob			
10aefop*	3141 057 64591	Mains knob			

STYLING 328

FRONT + TOP CONTROL



SIDE I/O



STYLING 328.eps
040804

1	3139 138 15851	Cabinet	12	3139 124 33461	Front interface bracket
1a*	3139 138 12071	Cabinet ITV	12fknoprstu*	Not applicable	
1bgq*	3141 057 64861	Cabinet	13ft*	4822 463 11225	Chassis guide (HB)
1fp*	3139 177 58641	Cabinet	13f*	4822 463 11226	Chassis guide (VO)
1hjm*	3139 124 33452	Cabinet	13ghjmq*	3139 124 33531	Chassis tray
1kno*	3139 124 44751	Cabinet	13kno*	Not applicable	
1rst*	3141 047 80681	Cabinet	13prs*	3139 124 25884	Chassis guide(HB)
1u*	3141 047 79441	Cabinet	13prs*	3139 124 25893	Chassis guide (VO)
2a*	3139 124 35871	Rear cover (9AV+NFM)	13t*	4822 463 11226	Chassis guide (VO)
2bgghmq*	3139 124 37231	Rear cover (12AV+SVHS)	14	3139 124 33611	Side AV bracket
2cdefkno*	3139 124 44741	Rear cover (12AV+SVHS)	14fp*	Not applicable	
2p*	3141 047 58691	Rear cover	14kno*	3139 124 37061	Side Av bracket (HP+3P)
2q*	3141 047 65241	Rear cover	14p*	3141 054 22951	Side AV bracket
2rst*	3139 177 81181	Rear cover	14rst*	3139 124 40131	Side AV bracket
2u*	3141 047 90361	Rear cover	14u*	3139 124 39541	Side AV bracket
3	2422 264 00409	Loudspeaker 8Ω 5W	15	Not applicable	
3a*	2422 264 00442	Loudspeaker 8Ω 5W	ade*	9322 196 07682	Picture tube A68QDL282X062
3rs*	2422 264 00485	Loudspeaker 8Ω 15W	hjn*	9322 196 06682	Picture tube A68QDL281X062
4t*	3141 050 00291	Word mark	r*	9301 962 60542	Picture tube
4hjkmmo*	3141 050 00161	Word mark			
5u*	4822 505 11195	CRT fixing screw	s*	9301 962 50542	Picture tube A68QCU770X73(S)
5fknoprst*	4822 502 14602	CRT fixing screw		9322 173 75682	Picture tube A68QCP893X001
6abcde*	3139 124 31122	Degaussing coil bracket	t*	9301 946 60542	Picture tube A68QCU770X73(N)
6f*	Not applicable				
6hjkmmnopqrs*	3141 054 22351	Corner coil bracket	u*	9322 163 87682	Picture tube
7	3139 128 23781	Degaussing coil 29" (full range)			
7bc*	4822 157 11551	Degaussing coil			
7t*	3139 128 23381	Degaussing coil	*a	29HT2211/69Z	
7u*	4822 157 11536	Degaussing coil	*b	29PT3223/79R	
8	3139 124 30411	Light guide	*c	29PT3323/79R	
8fknop*	3139 124 44761	Light guide	*d	29PT3323/69R	
8rs*	3139 177 80641	Light guide	*e	29PT3323/71R	
9abhjm*	3139 124 36331	Mains knob	*f	29PT5107/60	
9bgq*	3141 057 64591	Mains knob	*g	29PT5207/60	
9cdefp*	3139 177 58731	Mains knob	*h	29PT3223/56R	
9kno*	3139 124 44781	Mains knob	*j	29PT3223/67R	
9rst*	3139 177 80651	Mains knob	*k	29PT3223/69S	
9u*	3139 137 83951	Mains knob	*m	29PT3223/71R	
10	4822 404 31363	Mains cord relief	*n	29PT3323/67R	
10fknoprstu*	Not applicable		*o	29PT3323/69S	
11abhjm*	3139 124 36311	Control knob	*p	29PT5107/60S	
11bgq*	3141 057 64601	Control knob	*q	29PT5207/60S	
11cde*	3139 177 58741	Control knob	*r	29PT3324/69R	
11f*	3139 177 60081	Control knob	*s	29PT3324/79R	
11knoprst*	Not applicable		*t	29PT3324/93R	
11u*	3139 137 84471	Control knob	*u	25HT2212/93R	

FRONT + TOP CONTROL

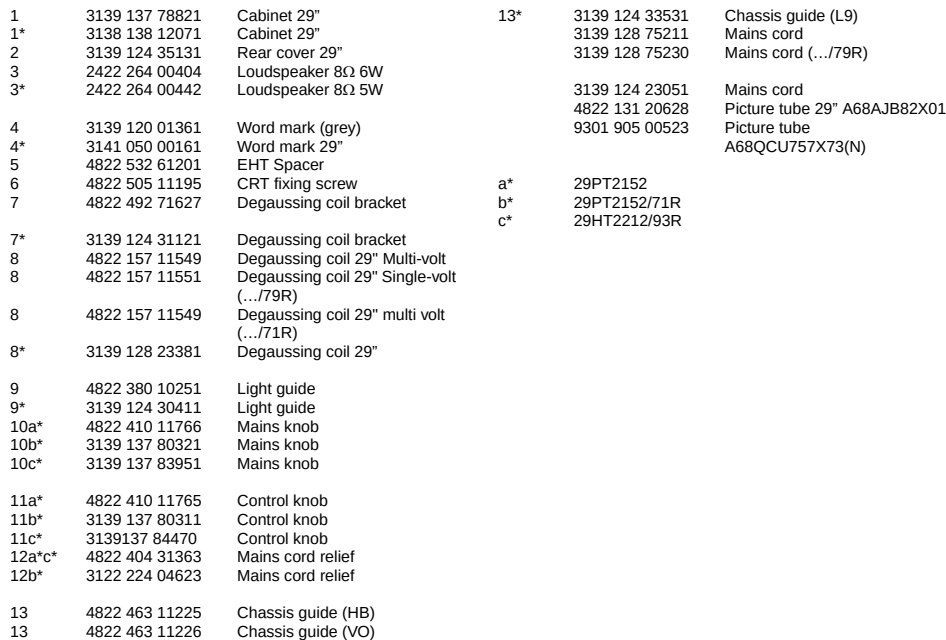
Diagram showing the connection of the front and top control panel to the main unit. The panel includes a SK 1 button, a RED button, an IR sensor, and a speaker. The connections are as follows:

- SK 1: Connected to the top left terminal.
- RED: Connected to the top left terminal.
- IR: Connected to the top middle terminal.
- Speaker: Connected to the top right terminal.

SIDE I/O

Diagram showing the connection of the side I/O panel to the main unit. The panel includes S-Video, Video, L Audio, R Audio, and a speaker. The connections are as follows:

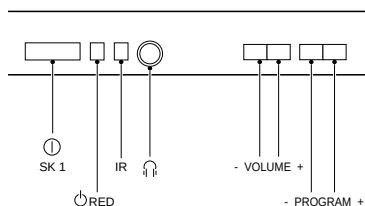
- S-Video: Connected to the top left terminal.
- Video: Connected to the top middle terminal.
- L Audio: Connected to the top right terminal.
- R Audio: Connected to the top right terminal.
- Speaker: Connected to the bottom terminal.

[illegible]

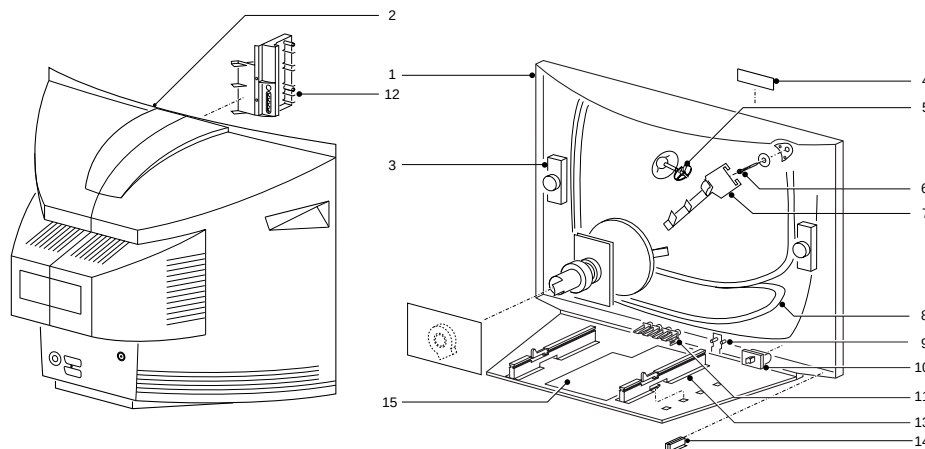
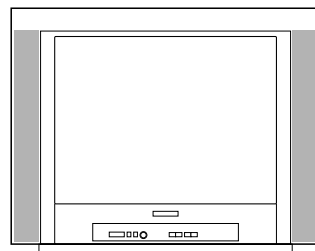
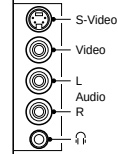
1ab*	3122 124 36071	Lens	21cdcf*	3122 358 76473	EMC shielding foam short
1cd*	3122 124 36211	Lens	22ab*	3122 358 76191	EMC shielding foam bottom 3
1ef*	3122 124 36261	Lens	22cdcf*	3122 358 76401	EMC shielding foam bottom 3
2	3122 124 36271	Light guide	23ab*	3122 358 76181	EMC shielding foam bottom 2
3abcd*	3122 124 36081	Day/light filter	23cdcf*	3122 358 76391	EMC shielding foam bottom 2
4abcd*	3122 128 13901	On/off knob	24ab*	3122 358 76171	EMC shielding foam bottom 1
4ef*	3122 128 14292	On/off knob	24cdcf*	3122 358 76381	EMC shielding foam bottom 1
5abcd*	3122 121 67251	Led switch spring	25ab*	3122 128 13871	Back display assy
6ab*	3122 358 76201	EMC shielding foam long	25cd*	3122 128 14221	Back display assy
6cd*	3122 358 76463	EMC shielding foam long	25ef*	3122 128 14261	Back display assy
7	3122 124 36172	Cable track	cdef*	3122 358 76431	EMC shielding foam bottom 6
8ab*	3122 128 13911	Shielding frame	cdef*	3122 128 14461	PDP bracket Large
8cd*	3122 128 14231	Shielding frame	cdef*	3122 128 14441	PDP bracket left
8ef*	3122 128 14271	Shielding frame	cdef*	3122 128 14451	PDP bracket right
9abcd*	2422 264 00432	Tweeter		4622 007 51971	Mains cord EU
10abcd*	2422 264 00433	Loudspeaker twin		2422 070 98107	Mains cord UK
11abcd*	3122 358 76221	Loudspeaker foam		2422 070 98105	Mains cord China
12ab*	3122 358 76151	EMC shielding foam top		2422 070 98106	Mains cord Aus/NZ
12cdcf*	3122 358 76451	EMC shielding foam top		3122 358 75802	Mains cord US
13ab*	3122 357 76161	EMC shielding foam L+R		3122 358 76342	Mains inlet
13cdcf*	3122 358 76441	EMC shielding foam L+R	abcd*	3122 358 76591	Thin VGA cable 2m with audio
14ab*	3122 358 76251	EMC shielding foam bottom L1	ef*	3122 358 76581	Thin VGA cable 2m without audio
14cdcf*	3122 358 76411	EMC shielding foam bottom 4			
15ab*	3122 358 76261	EMC shielding foam bottom L2		3122 357 76611	Thin VGA cable 5m
15cdcf*	3122 358 76421	EMC shielding foam bottom 5		3139 228 89251	RC19335009/01
16ab*	3122 128 13951	Metal back plate		3122 128 13921	Mounting kit
16cdcf*	3122 128 14322	Metal back plate		3122 128 14301	Mounting kit -17S
17ac*	3122 128 13681	Connector plate	ab*	0997 210 04055	Coloured frame Champagne
17bd*	3122 128 13695	Connector plate	ab*	0997 210 04056	Coloured frame Blue
17ef*	3122 128 14392	Connector plate	ab*	0997 210 04057	Coloured frame Green
18a*	3122 357 21201	Front assy -/01S, -/x2Z, -/x2S	ab*	0997 210 04058	Coloured frame Rouge
18ab*	3122 357 21361	Front assy -/69S	ab*	0997 210 04059	Coloured frame Unpainted
18b*	3122 357 21391	Front assy -/17S	cd*	0997 210 04202	Coloured frame Champagne
18c*	3122 357 21421	Front assy -/01S, -/x2Z, -/x2S	cd*	0997 210 04203	Coloured frame Blue
18c*	3122 357 21513		cd*	0997 210 04204	Coloured frame Green
18d*	3122 357 21512	Front assy -/01S, -/17S, /69S	cd*	0997 210 04205	Coloured frame Rouge
18e*	3122 357 21582	Front assy	cd*	0997 210 04206	Coloured frame Unpainted
18f*	3122 357 21681	Front assy			
18g*	3104 308 12291	Front assy	*a	32FD9944, 32HF9964, 32PF9965	
18h*	3104 328 33041	Front assy	*b	32FD9954	
19ab*	3122 124 90731	Glass plate	*c	42FD9944, 42HF9964, 42PF9964, 42PF9953	
19cdcf*	3122 124 90811	Glass plate	*d	42PF9965, 42PF9955	
20ab*	9322 178 04682	Display FPF32C106128UA-52	*e	42FD9954	
20ab*	9322 190 61682	Display FPF32C106128UA-62	*f	42FD9934, 42FD9945	
20ab*	9322 194 11682	Display FPF32C106128UA-72		42OP30/00	
20cdcf*	9322 185 78682	Display FPF42C128128UB-54	*g	BDH4211/00	
20cdcf*	9322 194 10682	Display FPF42C128128UB-72	*h	BDH4221/00	
21ab*	3122 358 76211	EMC shieldino foam short			

STYLING 340

FRONT + TOP CONTROL



SIDE I/O

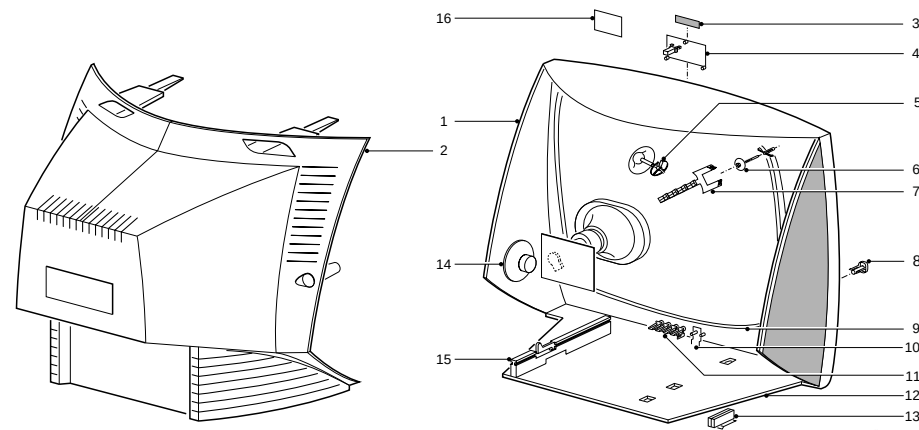
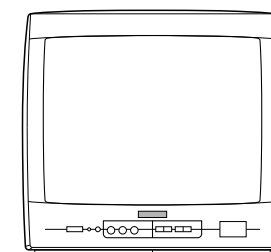
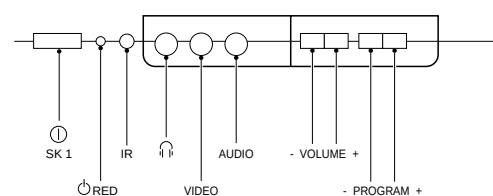


STYLING 340.eps
040804

1	3139 137 79991	Cabinet 21"
1def*	3139 107 60021	Cabinet 21"
1g*	3141 054 23301	Cabinet 21"
2	3139 124 34391	Back cover 21"
2b*	3141 054 23341	Back cover 21"
3	2422 264 00411	Loudspeaker 16Ω 5W
4	3111 250 00841	Word mark (red silver)
4def*	3111 250 01031	Word mark (metal pearl)
4g*	3122 220 00203	Word mark
5	3111 254 23481	Coil & EHT clamp
6	3139 120 41391	CRT fixing screw
7	4822 404 30945	Degaussing coil bracket
7g*	3111 104 44664	Degaussing coil bracket
8	2422 549 45514	Degaussing coil
9	3139 124 34402	Light guide
10	3141 057 80961	Mains knob
11	3141 057 80951	Control knob
12abcdef*	3139 124 37661	Side AV bracket (3P+HP)
13	3139 124 36232	Chassis guide
14	4822 404 31291	Mains cord relief
15	3139 124 33291	VO plate
	4822 321 11499	Mains cord EU
	4822 321 11493	Mains cord UK
d*	2422 070 98094	Mains cord UK
ef*	3139 178 87361	Mains cord
	4822 131 11105	Picture tube A51EAL155X47
dg*	9301 952 80342	Picture tube A51EAL135X42
bc*	3139 128 76381	FM aerial
bd*	3111 257 71451	Stand (silver)

*a	21PT4457/01, 21PT4438/01
*b	21PT4457/05
*c	21PT4457/58
*d	21PT4458/05
*e	21PT4458/01
*f	21PT4458/58
*g	21PT1867/58

STYLING 350



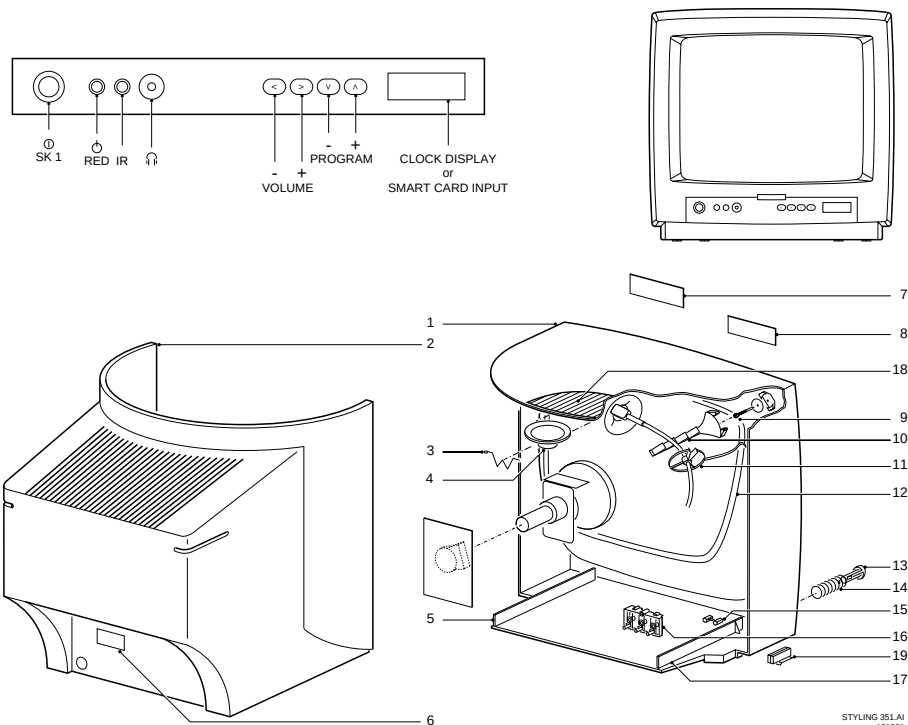
Styling 350.eps
181201

1	3111 257 57241	Cabinet
1c*	3111 257 57261	Cabinet
2	3139 137 92751	Rear cover
2c*	3111 254 25021	Rear cover
3	Not applicable	
4	Not applicable	
5	4822 401 11765	Coil & EHT clamp
5c*	3111 254 23481	Coil & EHT clamp
6ab*	4822 502 14508	CRT fixing screw
7	4822 404 31325	Degaussing coil bracket
7c*	2422 549 45835	Degaussing coil bracket
8	3139 137 79221	Mains knob
9	2422 549 44844	Degaussing coil 14"
9c*	2422 549 45304	Degaussing coil 14"
10	3111 254 25221	Light guide
11	3139 137 79231	Control knob
12	3139 124 34111	Bottom plate (VO)
13	4822 404 31291	Mains cord relief
14	2422 264 00412	Loudspeaker 8Ω 10W
15	3139 124 34091	Chassis guide (VO)
16ac*	3111 254 24951	Clock lens
16b*	3119 107 17501	Clock lens

4822 321 11499	Mains cord EU
4822 321 11493	Mains cord UK
4822 321 11139	Mains cord
9301 861 90301	CRT A34EAC01X113

*a	14HT3154
*b	14HT3304
*c	14HT3154N/01

STYLING 351

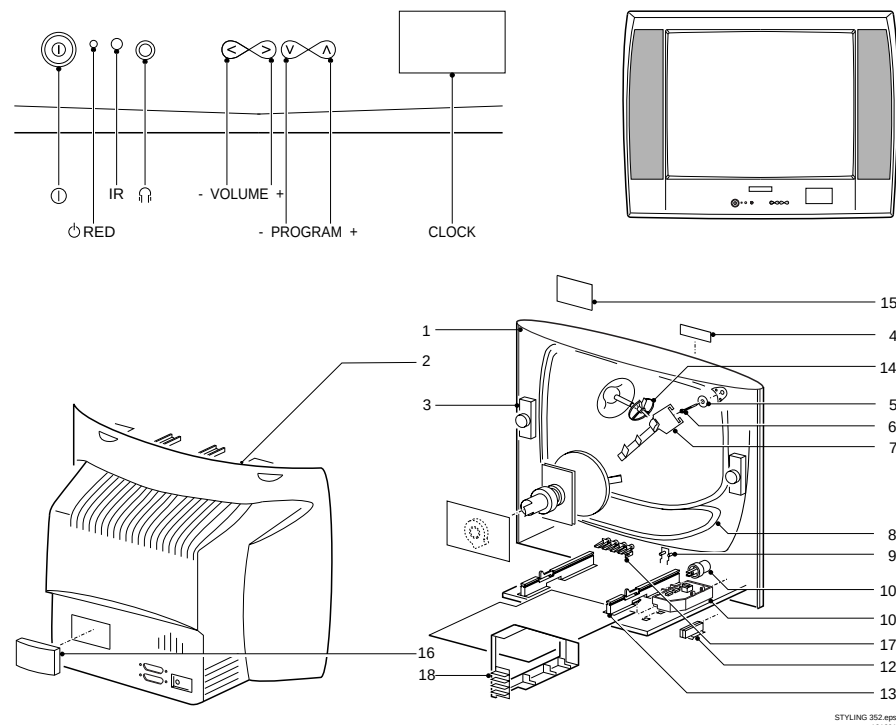


STYLING 351AI
181201

1	3111 257 57261	Cabinet 17"
2	3111 254 25021	Rear cover
3	Not applicable	
4	2422 264 00414	Loudspeaker 8Ω 5W
5	4822 463 11126	Chassis guide left
7a*	3119 104 27681	Clock lens
7b*	3119 107 05051	Clock lens
7c*	3119 107 05071	Clock lens
8	3111 250 00471	Word mark
9	4822 502 14508	CRT Fixing screw
10	3119 10418246	Degaussing coil bracket
10	3119 10418247	Degaussing coil bracket for A41EAM40X22
11	3111 254 23481	Coil & EHT clamp
12	2422 549 44843	Degaussing coil 17"
13	3111 254 09911	Mains knob silver
14	Not applicable	
15	4822 38010281	Light guide
16	3111 254 09921	Control knob silver
17	4822 463 11125	Chassis guide right
18	3111 254 09891	Loudspeaker grill
19	3139 124 23843	Mains cord relief
	4822 321 11499	Mains cord EU
	4822 321 11493	Mains cord UK
	9301 835 40301	Picture tube A41EAM40X20
	9301 918 60301	Picture tube A41EAM40X22

*a 17HT3154
*b 17HT3304
*c 17HT5404

STYLING 352

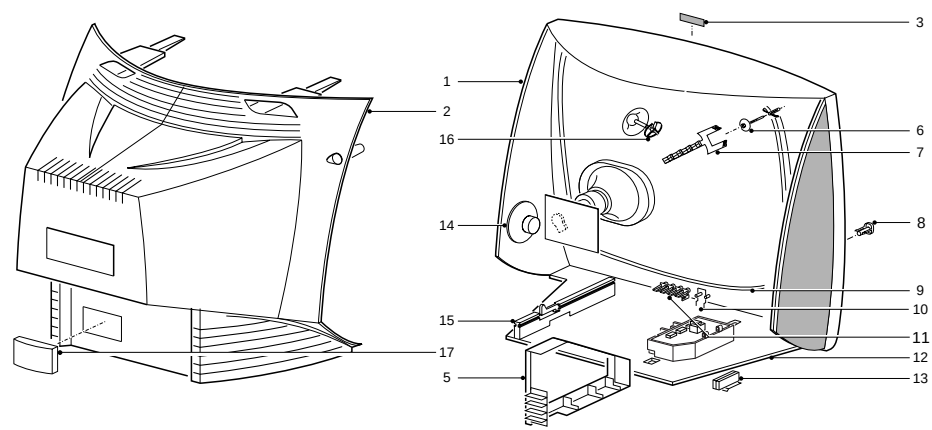
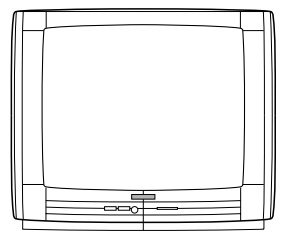
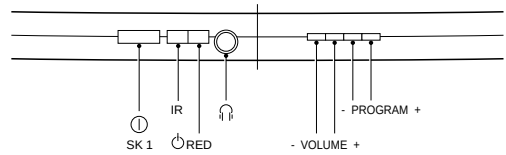


STYLING 352 app
181201

1	3111 257 57281	Cabinet 25"
1d*	3127 107 60111	Cabinet 25"
2	3111 254 25071	Rear Cover 25"
3	2422 264 00401	Loudspeaker 16Ω 5W
3c*	4822 240 10263	Loudspeaker 8Ω 6W
3d*	2422 264 00534	Loudspeaker 16-10W
4	3111 250 00731	Word mark Philips
4cd*	3111 250 00201	Word mark Philips
5+6	4822 505 11195	CRT Fixing screw
5+6d*	3104 308 77012	CRT Fixing screw
7	4822 403 70906	Corner coil bracket
8	2422 549 44253	Degaussing coil 25"
8d*	2422 549 45778	Degaussing coil 25"
9	4822 380 10251	Light guide
9d*	3139 124 25601	Light guide
10	3139 137 96621	Mains knob
11	3139 137 96611	Control knob
12	????	Mains cord relief
13	3139 124 30871	Chassis guide right
13	3139 124 30881	Chassis guide left
14	4822 401 11765	Coil & EHT clamp
14cd*	3111 254 23481	Coil & EHT clamp
15a	3119 107 05061	Clock lens
15acd*	3119 104 27691	Clock lens
16acd*	3139 124 30571	No system card cap
16b*	3119 104 28131	No system card cap
17	3119 107 17651	EPS bracket
	4822 131 11184	Picture tube A59EAK071X11
	4822 321 11499	Mains cord EU

4822 321 11493 Mains cord UK
*a 25HT5404/01Z/05Z
*b 25HT5404/21R/25R
*c 25HT5404/01B
*d 25HT5405/05B

STYLING 353

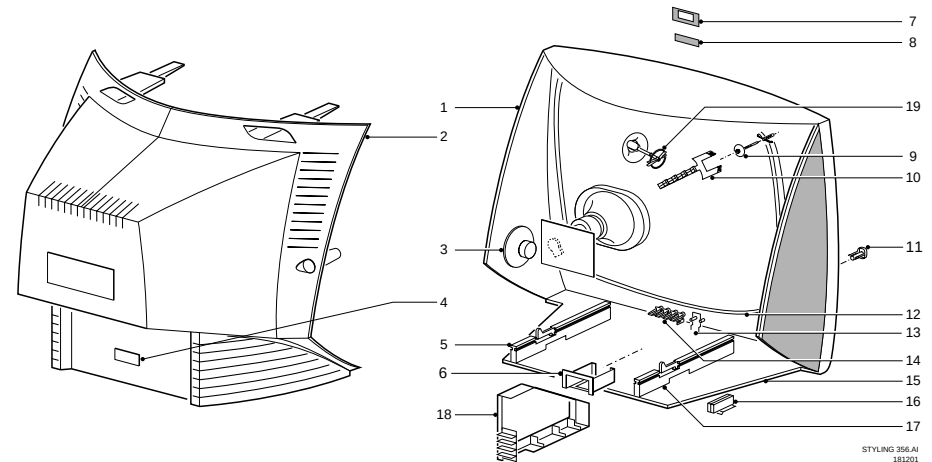
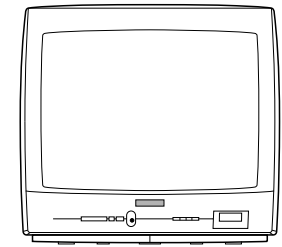
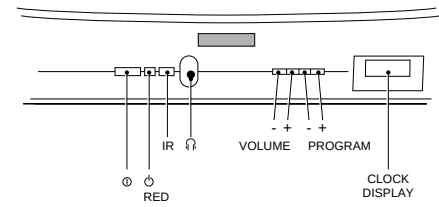


STYLING 353.eps
040804

1	3119 107 05142	Cabinet 28"
2a*	3111 254 25081	Rear cover
2b*	3111 254 25091	Rear cover
3	3111 250 00201	Word mark
4	3139 124 38211	Mains harmonic bracket
5	3119 107 17651	EPS bracket
6	4822 505 11195	CRT fixing screw
7	4822 403 70906	Corner coil bracket
8	3139 137 90651	Mains knob
9	4822 157 11762	Degaussing coil 28"
10	3139 124 37111	Light guide
11	3139 137 90661	Control knob
12	3139 124 30571	No system card cap
13	4822 404 31291	Mains cord relief
14a*	2422 264 00398	Loudspeaker 16Ω 5W
14b*	2422 264 00414	Loudspeaker 8Ω 5W
15	3139 124 30881	Chassis guide
16	4822 401 11765	Coil & EHT clamp
	4822 131 11045	Picture tube A66EAK071X11
	4822 321 11499	Mains cord EU
	4822 321 11493	Mains cord UK

*a 28HT5404
*b 28HT5304

STYLING 356



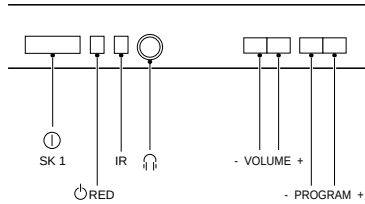
STYLING 356.AJ
181201

1	3111 257 57271	Cabinet	4822 321 11499	Mains cord EU
2abd*	3111 254 25051	Rear cover	4822 321 11493	Mains cord UK
2c*	3111 254 25061	Rear cover		
3	2422 264 00398	Loudspeaker 16Ω 5W	4822 131 11105	Picture Tube 21" A51EAL155X47
4abc*	3139 137 69151	No card system cap	9301 952 80342	Picture Tube 21" A51EAL135X42 for 21HT3154N
5	3139 124 36231	Chassis guide left		
6	Not applicable			
7ad*	3111 254 24971	Lens for clock display		
7b*	3119 107 05181	Lens for clock display		
7c*	3119 107 17511	Lens for clock display		
8	3111 250 00641	Word mark		
9	4822 502 14508	CRT fixing screw		
9d*	3139 120 41391	CRT fixing screw		
10	4822 404 30945	Degaussing coil bracket		
11	3139 137 76451	Mains knob		
11	3139 138 17941	Mains knob for 21HT3154N		
12	2422 549 44669	Degaussing coil 21"		
12	2422 549 45514	Degaussing coil for 21HT3154N		
13	3139 124 32301	Light guide		
14	3139 137 76461	Control knob		
14	3139 138 17951	Control knob for 21HT3154N		
15	3139 124 33291	Plate VO		
16	4822 404 31291	Main cord holder		
17	3139 124 34091	Chassis guide right		
18c*	3119 107 17651	EPS Bracket		
19	4822 401 11765	Coil & EHT clamp		
19	3111 254 23481	Coil & EHT clamp for 21HT3154N		

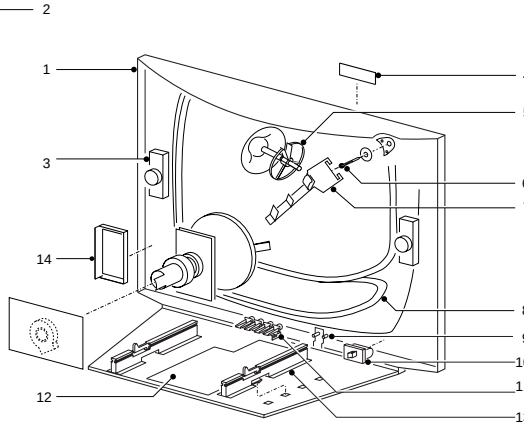
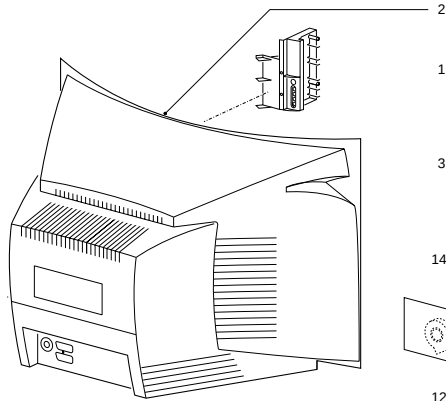
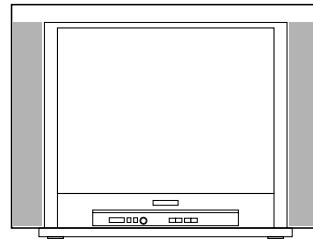
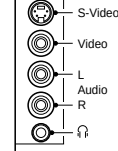
*a 21HT3154, 21HT4404
*b 21HT3304
*c 21HT5404
*d 21HT3154N

STYLING 374

FRONT + TOP CONTROL



SIDE I/O



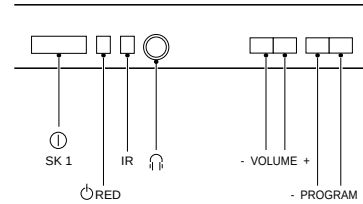
STYLING 374.eps
040804

1a*	3139 138 15271	Cabinet
1b*	3139 137 79751	Cabinet ITV
1c*	3141 057 64541	Cabinet
1d*	3141 057 64472	Cabinet
1e*	3139 177 67451	Cabinet (HP+3AV) USA
2a*	3139 124 34591	Rear cover (6AV+S) USA
2b*	3139 124 36681	Rear cover (9AV) ITV
2c*	3141 054 22401	Rear cover
2d*	3141 054 22361	Rear cover
2e*	3139 124 46481	Rear cover (NAV) USA
3ab*	2422 264 00444	Loudspeaker 8Ω 10W
3ce*	2422 264 00411	Loudspeaker 16Ω 5W
3d*	2422 264 00409	Loudspeaker 8Ω 5W
4ab*	3139 120 01371	Word mark (silver)
4cd*	3141 050 00301	Word mark
4e*	3141 050 00331	Word mark
5abc*	3141 054 22011	CRT spacer
5acde*	3139 124 17541	CRT spacer
6	3104 308 77012	CRT fixing screw
6	3104 308 77012	CRT Fixing Screw
7	3139 124 21372	Degaussing coil bracket
8abcd*	3139 128 23201	Degaussing coil 21" (multi voltage)
8acd*	3139 1 28 23191	Degaussing coil 21" (single voltage) (/79R)
8e*	3141 058 20131	Degaussing coil 21"RF USA
9	3139 124 32221	Light guide
10e*	3139 124 36331	Mains knob
10ab*	3139 137 83951	Mains knob
10cd*	3141 057 64591	Mains knob
10	9301 935 20522	Mains knob
10	9322 163 87682	Mains knob
11abc*	3139 124 36311	Control knob
11c*	3141 057 64601	Control knob

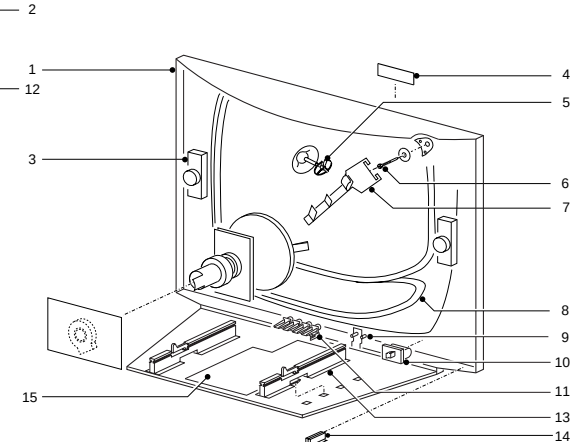
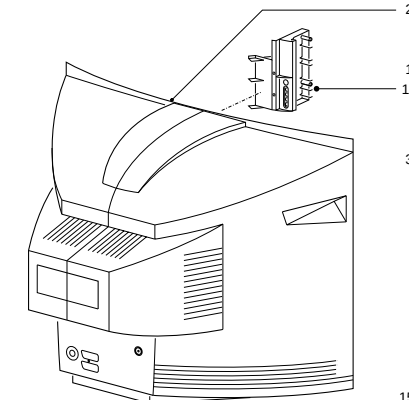
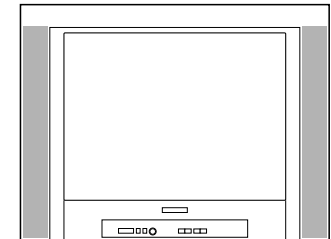
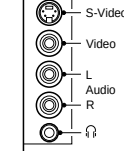
11e*	3139 137 94241	Control knob
12	3139 124 33341	V0 plate
13	3139 124 30812	Chassis guide (VO)
14	3139 124 39541	Side AV bracket
ab*	9322 153 82682	Picture tube 21" A51LSK955X01
cd*	9322 196 08682	Picture tube 21" A51LYZ095X01
e*	9301 903 81343	Picture tube 21" A51ERF135X82
ab*	9322 156 24682	Picture tube 21" A51LSK955X (/67R only)
ab*	2422 549 42609	Multi pole unit JH88DT-PL-00 (/67R only)
ab*	2422 549 44575	Deflection coil KDY3NWC32P (/67R only)
*a	21PT2251, 21PT2252	
*b	21HT2211, 21HT2212	
*c	21PT1323	
*d	21PT3323	
*e	20MS334R (20MS3341/37R)	

STYLING 375

FRONT + TOP CONTROL



SIDE I/O

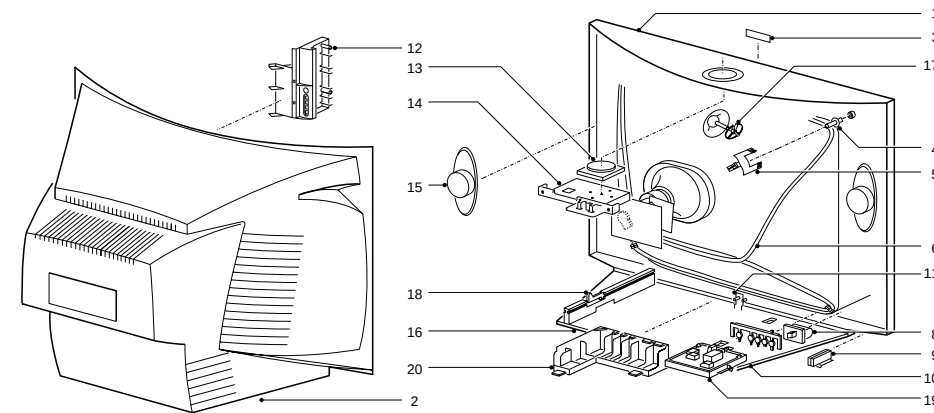
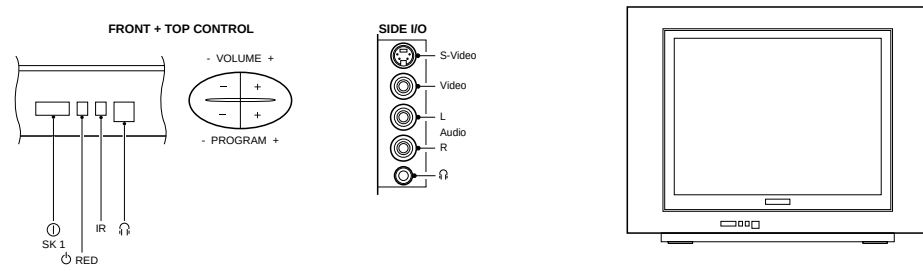


STYLING 375.eps
040804

1*	3139 124 35601	Cabinet
1k*	3139 124 36511	Cabinet
1f*	3139 137 79751	Cabinet
1de*	3139 137 85831	Cabinet (HP+FC)
1	3139 138 18961	Cabinet NAFTA
1a*	3139 138 18962	Cabinet
1b*	3139 177 58462	Cabinet
1cm*	3141 048 18961	Cabinet
1gh*	3141 047 64541	Cabinet
1n*	3141 047 69501	Cabinet
2ab*	3139 124 42192	Rear cover NAFTA
2c*	3139 124 42191	Rear cover NAFTA
2d*	3139 124 35741	Rear cover (4AV+FM)
2e*	3139 124 35881	Rear cover ITV AP
2fgh*	3139 124 43771	Rear cover (4AV)
2j*	3139 124 35591	Rear cover (9AV)
2k*	3141 054 22361	Rear cover (12AV+SVHS)
2m*	3139 124 44901	Rear cover (NAV)
2n*	3141 057 81021	Rear cover (6AV+SVHS)
3	2422 264 00411	Loudspeaker 16Ω 5W
3hm*	Not applicable	
3kn*	2422 264 00409	Loudspeaker 8Ω 5W
4acdej*	3141 050 00181	Word mark
4b*	3139 120 01371	Word mark (metal silver)
4fn*	3141 050 00301	Word mark
4gh	Not applicable	
4k	3141 050 00351	Word mark
5	4822 532 61201	EHT spacer
5n*	3139 124 23861	EHT spacer
6	4822 502 14508	CRT fixing screw/washer
6fghk*	4822 505 11195	CRT fixing screw
7abcde*	3141 054 22351	Cable tie
7	3139 124 10113	Bracket
7mn*	3139 121 08841	Cable connecting
8	4822 157 11444	Degaussing coil 21" (multi voltage)
8abc*	3139 128 23841	Degaussing coil 21" US
8n*	2422 549 00096	Degaussing coil
9	3139 124 34401	Light guide
9fk*	3139 124 32221	Light guide
9gh*	Not applicable	
10	3139 124 42181	Mains Knob

10acm*	3139 138 18951	Mains knob
10b*	3139 177 58441	Mains knob
10dej*	3139 137 86061	Mains knob
10fghk*	3139 124 36331	Mains knob
10n*	3141 057 69461	Mains knob
11acm*	3139 177 51741	Control knob USA
11b*	3139 177 58431	Control knob USA
11de*	3139 137 86011	Control knob
11fgh*	3139 124 36311	Control knob
11j*	3139 124 37962	Control knob
11k*	Not applicable	
11n*	3141 057 69451	Control knobs
12	Not applicable	
13	3139 124 30811	Chassis guide (VO)
13gh*	Not applicable	
14	Not applicable	
15	3139 124 33291	VO plate
15fk*	3139 124 33341	VO plate
15ghmn*	Not applicable	
fghk*	9301 843 10329	Picture tube A51EHW135X47
j*	9322 196 08682	Picture tube A51LYZ095X01
	4822 131 20581	Picture tube A51KXR95X01
*a	21PS47S	
*b	20L140	
*c	20L145	
*d	21PT2152, 21PT2011, 21PT2012, 21PT1320"	
*e	21HT2017	
*f	21PT1323/56S	
*g	21PT1323/67R	
*h	21PT1323/69S	
*j	21PT2152/68R	
*k	21PT3323/69S	
*m	21PT529A/85R	
*n	21PT2124/71R	

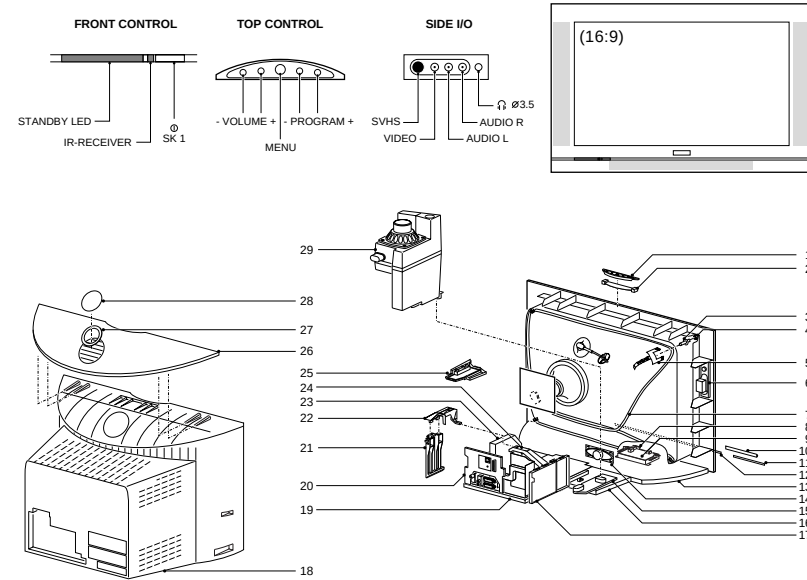
STYLING 377



STYLING 377.eps
04/08/04

1	3139 124 36511	Cabinet	13abc*	3139 124 31131	Top control cover
1a*	3139 138 17631	Cabinet	13+14d*	3141 057 65961	Top control
1bc*	3139 137 78351	Cabinet US	13h*	Not applicable	
1d*	3141 057 65971	Cabinet	14	3139 124 30381	Top control bracket
1e*	3141 047 68001	Cabinet	14d*	3139 124 30391	Top control bracket
1h*	3141 047 69561	Cabinet	14*	Not applicable	
2	3141 054 22361	Rear cover (12A+SVHS) AP	15	2422 264 00409	Loudspeaker 8Ω 5W
2a*	3139 124 34591	Rear cover (6AV+S) US	15ad*	2422 264 00444	Loudspeaker 8Ω10W
2bc*	3139 124 37531	Rear cover (12AV+SVHS) US	15bc*	2422 264 00411	Loudspeaker 16Ω 5W
2d*	3139 124 40391	Rear cover	16	Not applicable	
2h*	3141 057 81031	Rear cover (12AV+SVHS)	16abcd*	3139 124 40321	Front mains PCB bracket
3	3141 050 00351	Word mark	17	4822 532 61201	EHT spacer
3a*	3139 120 01371	Word mark	17h*	Not applicable	
3bc*	3141 050 00181	Word mark	17h*	3139 124 17541	EHT spacer (/69S, /56S)
3deh*	3141 050 00301	Word mark	18	3139 124 30811	Chassis guide (VO)
4	4822 505 11195	CRT fixing screw	18d*	3139 124 25893	Chassis guide (VO)
5	3141 054 22351	Cable tie	19	Not applicable	
5fg*	3139 124 21372	Degaussing coil bracket	20	Not applicable	
6	4822 157 11446	Degaussing coil 21" (single voltage)	abc*	9322 196 08682	Picture tube A51LYZ095X01
6ade*	4822 157 11444	Degaussing coil		9322 153 82682	Picture tube A51LSK955X01
6bc*	3139 128 23841	Degaussing coil			
6h*	3139 128 23201	Degaussing coil 21" (multi voltage)			
7	Not applicable		a*	21PT2301, 21PT2302	
8	3139 124 36331	Mains knob	b*	20RF50S3	
8a*	3139 137 76521	Mains knob	c*	21PV3022	
8bc*	3139 137 92631	Mains knob	d*	21PT4323	
8d*	3141 057 65651	Mains knob	e*	21PT5407/21	
8e*	3141 057 64591	Mains knob	f*	21PT3323/66S/67R	
8h*	3141 057 69571	Mains knob	g*	21PT4223/69R/69S	
9	Not applicable		h*	21PT3324/67S, /69S, /56S	
9abcd*	3122 224 04623	Mains cord relief			
10	3139 124 33341	VO plate			
10d*	3139 124 39161	VO plate			
11	3139 124 32221	Light guide			
11d*	3139 124 41421	Light guide			
12aegh*	3139 124 39541	Side AV bracket (HP+3AV)			
12bc*	3139 124 34251	Side AV bracket			
12d*	3139 124 37061	Side AV bracket			
12f*	3141 054 22541	Side AV bracket (HP)			
13	3139 137 66921	Top control cover			

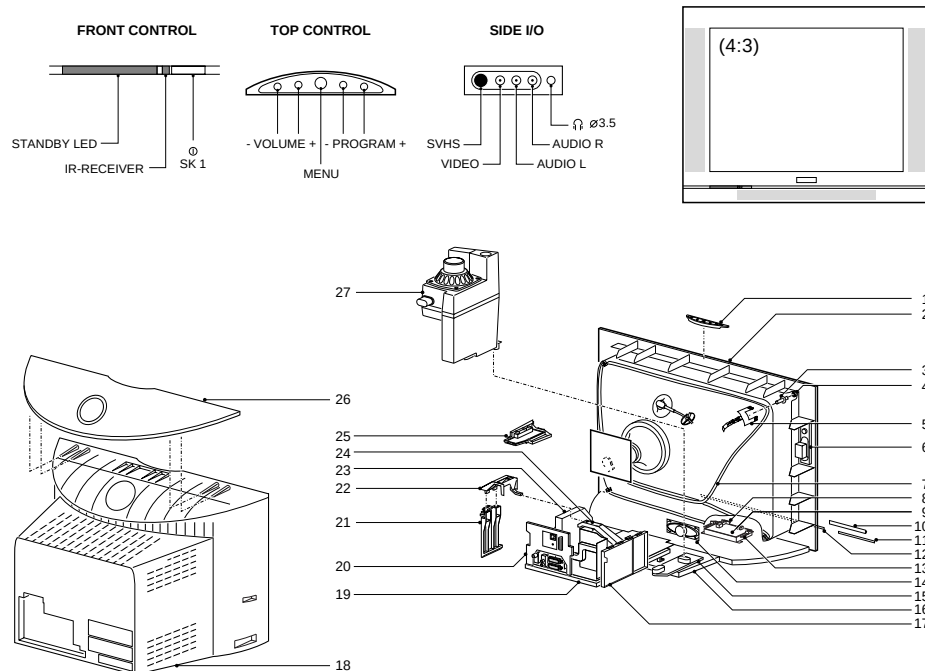
STYLING 380



1	3104 307 98241	Top control keypad	22	3104 304 24151	Bracket SSB top-support
2	3104 304 23431	Top control bottom	23	3104 301 24191	Shielding frame SSB (A-side)
3	4822 404 31294	Insert (VP19000)	23	3104 301 24201	Shielding frame SSB (Z-side)
4	4822 502 21359	Picture tube screw	23	3104 301 24211	Shielding cover SSB (A-side)
5a*	4822 403 70906	Bracket fix deg. coil short (4x)	23	3104 301 24221	Shielding cover SSB (Z-side)
5b*	4822 403 70906	Bracket fix deg. coil short (2x)	24	3104 304 24131	Bracket LOT-support
5b*	4822 404 31289	Bracket fix deg. coil long (2x)	25abch*	3104 328 24351	Side I/O assy
5cdegh*	3104 304 21091	Bracket fix deg. coil short (4x)	25defg*	3104 328 17431	Side I/O assy
6	2422 264 00429	Loudspeaker (2x)	25	3104 304 23481	Side I/O bracket
7a*	2422 549 44621	Degaussing coil	26/28a*	3104 307 98631	Top cover assy (incl. disc)
7b*	3104 308 20401	Degaussing coil	26/28b*	3104 307 98641	Top cover assy (incl. disc)
7b*	3104 308 20731	Degaussing coil (/61R)	26/28cdegh*	3104 307 98651	Top cover assy (incl. disc)
7c*	3104 308 20391	Degaussing coil	27	3104 308 78201	Rubber earring
7ch*	3104 308 20721	Degaussing coil (/61R)	28	3104 304 24002	Flying saucer
7deg*	2422 549 44243	Degaussing coil	29	3104 130 01981	Subwoofer box
7f*	2422 549 44256	Degaussing coil			
8	3104 307 97621	Mains switch knob	a*	3104 328 20441	Top control assy
9	3104 304 23471	Bracket Mains Switch panel	b*	3104 328 17131	Top control assy
10	3104 304 23461	Light guide	cdefgh*	3104 328 17301	Top control assy
11a*	3104 304 23651	Deco strip left		3104 300 12311	Matchline emblem
11bf*	3104 304 23621	Deco strip left		3104 300 12241	Word mark PHILIPS
11cdegh*	3104 304 23591	Deco strip left	cdegh*	3104 304 21031	Bracket Rotation coil
12a*	3104 304 23661	Deco strip right		3128 138 60661	Rotation coil
12bf*	3104 304 23631	Deco strip right	a*	9301 899 90306	Picture tube W66ERF042X044
12cdegh*	3104 304 23601	Deco strip right	b*	9301 895 00301	Picture tube W76ERF052X044 (PHILIPS)
13a*	3104 328 16531	Cabinet assy	b*	9301 880 70301	Picture tube W76ERF042X044 (PHILIPS)
13b*	3104 328 16572	Cabinet assy (for PHILIPS CRT)	b*	9322 173 93682	Picture tube W76EKW 10X73 (MEC)
13b*	3104 328 26951	Cabinet assy (for MEC CRT)			
13b*	3104 328 16581	Cabinet assy (/69R, /79R)			
13c*	3104 328 24361	Cabinet assy	cdegh*	3104 300 50301	Picture tube W86LPX955X
13d*	3104 328 16611	Cabinet assy	ab*	3128 147 13981	Remote control RC2048
13f*	3104 328 26781	Cabinet assy	c*	3128 147 13991	Remote control RC2049
13g*	3104 328 26791	Cabinet assy	deh*	3128 147 14011	Remote control RC2060
13h*	3104 328 27632	Cabinet assy	f*	3128 147 14461	Remote control RC4305/01
14	2422 264 00431	Centre loudspeaker (1x)		4822 321 11493	Mains cord (/05, /57)
15	3104 304 24241	Bracket Subwoofer support		4822 321 11499	Mains cord (/12, /69)
16abc*	3104 304 23501	Bottom plate		2422 070 98132	Mains cord (/79)
16defgh*	3104 304 24351	Bottom plate		3104 328 11841	Mains cord (/71, /55, /17)
17	3104 304 23041	Bracket DAF/DC-shift panel		3139 128 75261	Mains cord (/77)
18a*	3104 307 98461	Rear cover assy		4822 402 11183	Mains cord holder
18b*	3104 307 98521	Rear cover assy			
18b*	3104 307 98531	Rear cover assy (/69R, /79R)			
18c*	3104 307 98601	Rear cover assy	a*	28PW9527/xxx	
18deg*	3104 307 98612	Rear cover assy	b*	32PW9527/xxx	
18f*	3104 307 98541	Rear cover assy	c*	36PW9527/xxx	
19	3104 304 23001	Frame for LSP	d*	34PW9818/xxx	
20ab*	3104 304 21331	Cover plate SCART3/wireless	e*	36PW9818/xxx	
20cdeh*	3104 304 24581	Cover plate SCART3/wireless	f*	30PW9819/xxx	
20fg*	3104 304 25392	Cover plate DVI-US	g*	34PW9819/xxx	
21	3104 304 24141	Bracket Auto-SCAVEM	h*	36PW9818/xxx	

STYLING 380.eps
04/08/04

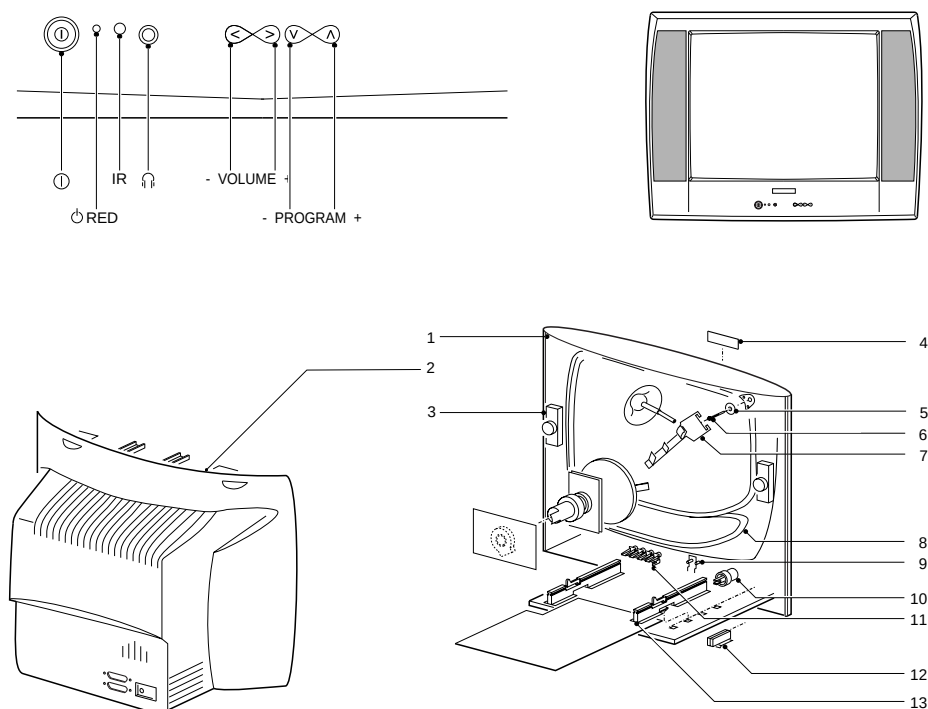
STYLING 382



STYLING 382.eps
040804

1a*	3104 328 19791	Top control assy 29"	25	3104 304 23481	Side I/O bracket
1b*	3104 328 17301	Top control assy 34"	26a*	3104 307 97561	V0 Top cover 29"
2a*	3104 328 12231	Cabinet 29"	26b*	3104 307 97551	V0 Top cover 34"
2b*	3104 328 12221	Cabinet 34"	27	3104 130 01981	Subwoofer box
3a*	4822 505 11195	CRT screw 29"			
3b*	4822 502 21359	CRT screw 34"	a*	3104 304 22432	Bracket PIP/3D-comb panel
4b*	4822 404 31294	CRT fixing insert (VP19000)	a*	3139 124 39581	Bracket Rotation coil 29"
5a*	3139 124 31122	Bracket degaus. coil 29" (4x)	b*	3104 304 21031	Bracket Rotation coil 34"
5b*	3139 124 32811	Bracket degaus. coil 34" (4x)		3128 138 60661	Rotation coil
6	2422 264 00429	L/R loudspeaker (2x)	a*	9322 176 13682	Picture tube 29"
7a*	2422 549 44579	Degaus. coil 29" (/57)			A68QCP891X536 (/57, /61)
7a*	3139 128 23781	Degaus. coil 29" (/61, /69, /71, /79)	a*	9322 160 15682	Picture tube 29"
7b*	3104 308 20361	Degaus. coil 34" (/57)			A68QCP891X501 (/69, /71, /79)
7b*	3104 308 20351	Degaus. coil 34" (/61, /69, /71)	b*	9322 185 70682	Picture tube 34" A80LTM350X89 (/57, /61)
8	3104 307 97621	Mains knob assy	b*	9322 185 75682	Picture tube 34" A80LTM351X89 (/69, /71)
10	3104 304 23461	Light guide		3128 147 14011	Remote RC2060 (/61, /69, /71, /79)
11a*	3104 304 23531	Deco strip left 29"			Remote RC2049 (/57)
11b*	3104 304 23561	Deco strip left 34"			Mains cord (/57)
12a*	3104 304 23541	Deco strip right 29"	ab*	3128 147 13991	Mains cord (/69)
12b*	3104 304 23571	Deco strip right 34"	ab*	4822 321 11493	Mains cord (/61, /71)
13	3104 304 23471	Bracket Mains Switch panel	ab*	4822 321 11499	Mains cord (/79)
14	2422 264 00431	Centre loudspeaker (1x)	ab*	3104 328 24341	Mains cord (/93)
15	3104 304 24241	Subwoofer support bracket	ab*	2422 070 98207	Mains cord holder
16	3104 304 24231	Bottom plate		4622 006 06061	'Matchline' emblem
17	3104 304 23041	Bracket for DAF panel		4822 402 11183	'Philips' word mark 29"
18	3104 307 97501	Rear cover assy 29"		3104 300 12311	'Philips' word mark 34"
18	3104 307 97491	Rear cover assy 34"	a*	3104 300 12231	
19	3104 304 23001	Bracket for LSP	b*	3104 300 12241	
20	Not applicable				
21	3104 304 24141	Bracket for SSB bottom support	*a	29PT9420/xxR	
22	3104 304 24151	Bracket for SSB top support	*b	34PT9420/xxR	
23	3104 301 24131	Shielding frame SSB (A-side)			
23b*	3104 301 24191	Shielding frame SSB (A-side)			
23	3104 301 24141	Shielding frame SSB (Z-side)			
23b*	3104 301 24201	Shielding frame SSB (Z-side)			
23	3104 301 24151	Shielding cover SSB (A-side)			
23b*	3104 301 24211	Shielding cover SSB (A-side)			
23	3104 301 24161	Shielding cover SSB (Z-side)			
23b*	3104 301 24221	Shielding cover SSB (Z-side)			
24	3104 304 24131	LOT support bracket			
25	3104 328 24351	Side I/O assy			

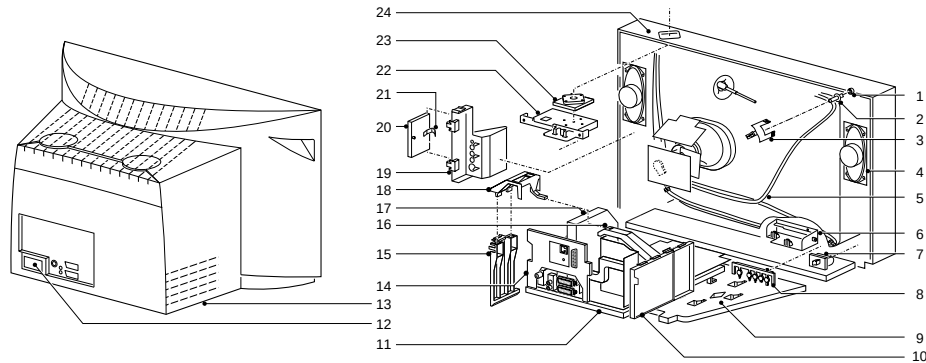
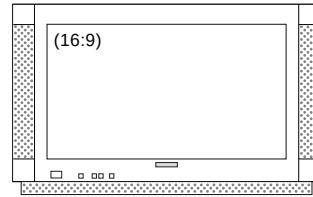
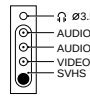
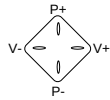
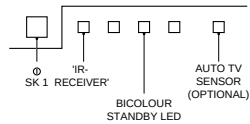
STYLING 393



STYLING 393.eps
040804

1a*	3139 138 19661	Cabinet	13ab*	4822 463 11226	Chassis guide (VO)
1b*	3141 054 21481	Cabinet			
1c*	3139 124 47581	Cabinet		4822 131 11298	Picture tube A68ESF004X111
2a*	3141 054 22181	Rear cover		9322 202 27682	Picture tube A51AKL13X10 (CPTO) B
2b*	3139 137 92881	Rear cover			
2c*	3141 057 82001	Rear cover	*a	29PT2162/56A/69R	
3	2422 264 00404	Loudspeaker 8Ω 6W	*b	29PT2162/68R	
3c*	2422 264 00479	Loudspeaker 16Ω 5W	*c	21PT1627/60	
4a*	3141 050 00251	Word mark PHILIPS			
4b*	2422 264 00404	Word mark			
4c*	3139 120 01601	Word mark			
5	Not applicable				
6ab*	4822 500 30034	CRT fixing screw			
7a*	4822 404 31434	Degaussing coil bracket			
7b*	3141 054 22351	Cable tie			
8	4822 157 11549	Degaussing coil 29"			
		8c*3139 128 23201Degaussing coil 21"			
9	3139 124 25601	Light guide			
9c*	3139 124 47501	Light guide			
10a*	3141 057 63011	Mains knob			
10b*	3139 137 67141	Mains knob			
10c*	3141 057 69591	Mains knob			
11a*	3141 057 63091	Control knob			
11b*	3141 054 21521	Control knob			
11c*	3141 057 68721	Control knob			
12ab*	4822 404 31363	Mains cord relief			
13ab*	4822 463 11225	Chassis guide (HB)			

STYLING 395

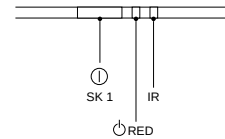


STYLING 395.eps
040804

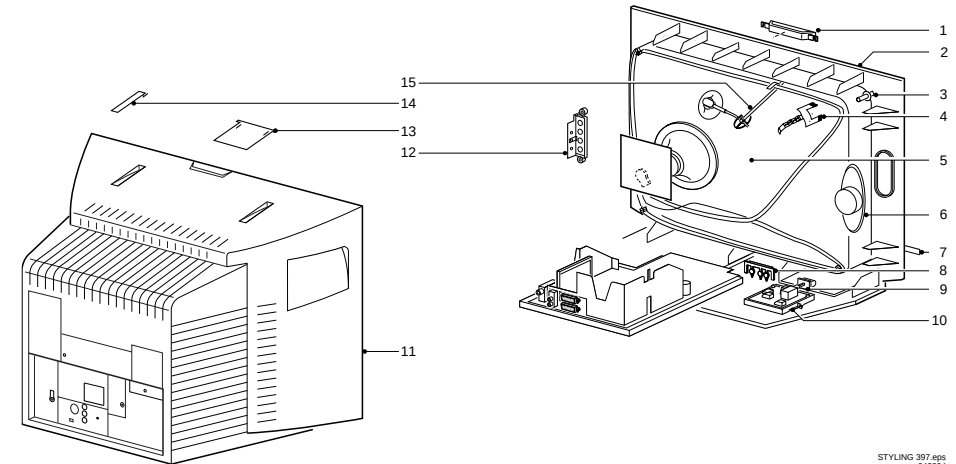
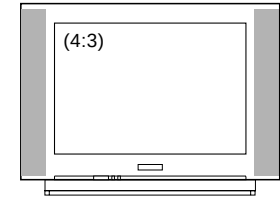
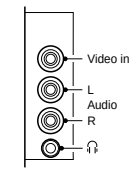
1	3104 308 74023	CRT insert	3104 300 11991	Word mark
2	4822 502 21359	CRT screw		
3	4822 404 31289	Bracket fix degaussing coil	9301 895 00306	Picture tube
4	3104 308 78281	Loudspeaker	3128 138 60661	Rotation coil
5	3104 308 20401	Degaussing coil	2422 070 98132	Mains cord -/79
			4822 402 11183	Mains cord holder
6	3104 304 21856	Bracket mains unit	3104 300 20181	Adapter EURO to Cinch/S-VHS
7	3104 307 96232	Mains knob		for -/57, /69, /79
8	3104 304 21871	Light guide	3104 300 20191	Adapter EURO to 3 x Cinch for
9	3104 304 22012	Bottom plate		-/57, /69, /79
10	3104 304 23041	Bracket for DAF/DC-shift panel	3128 147 13991	Remote control
			32PW8808/79R	
11	3104 304 23003	Bracket for LSP		
12	3104 304 22312	Service connector cover		
13	3104 307 99111	Rear cover assy		
14	3104 304 24581	Cover plate 2x2FH		
15	3104 304 24141	Bracket for Auto-Scavem panel		
16	3104 304 24131	LOT support bracket		
17	3104 301 24191	Shielding frame SSB (A-side)		
17	3104 301 24201	Shielding frame SSB (Z-side)		
17	3104 301 24211	Shielding cover SSB (A-side)		
17	3104 301 24221	Shielding cover SSB (Z-side)		
18	3104 304 24151	Bracket for SSB top support		
19+20+21	3104 328 20921	Side I/O assy		
19	3104 304 24041	Bracket for Side I/O panel		
20	3104 304 25271	Door Side I/O		
21	3104 301 23972	Metal spring for door		
22+23	3104 328 09732	Top control assy		
22	3104 304 19794	Top Control bracket		
23	3104 304 22561	Top Control keypad		
24	3104 328 21633	Cabinet assy		

STYLING 397

FRONT + TOP CONTROL



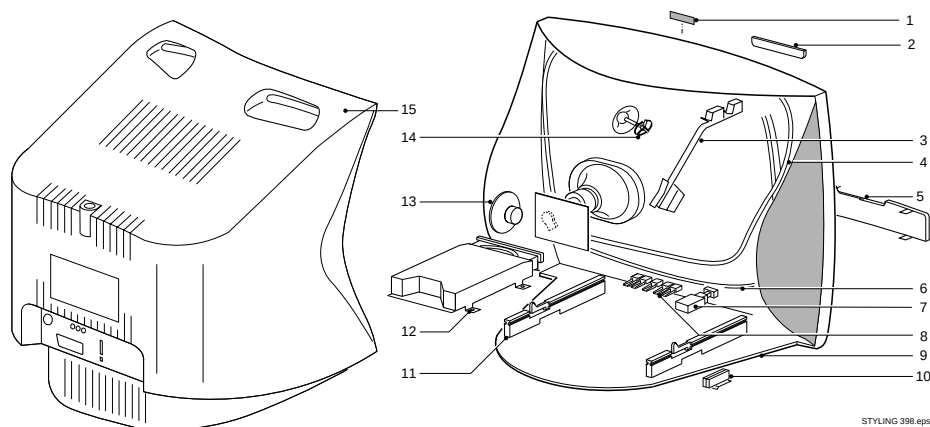
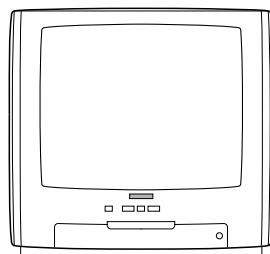
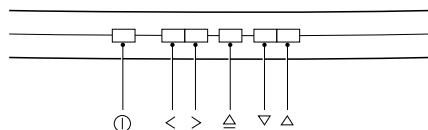
SIDE I/O



STYLING 397.eps
040804

1ab*	3139 124 39171	Top control bracket	9c*	3139 124 36331	Mains knob
1ab*	3139 124 39181	Top control knob	9d*	3139 124 39201	Mains knob
1ab*	3139 138 13541	Top control assy	9f*	3141 057 69571	Mains knob
1c*	3139 137 66921	Top control button	10	3139 124 30431	Front interface bracket
1de*	3139 124 39182	Top control button			
1f*	3139 124 30381	Top control bracket	10cf*	Not applicable	
2ab*	3139 138 13611	Cabinet 21"	11	3139 124 40391	Rear cover
2ab*	3141 057 65971	Cabinet 21" (silver)	11c*	3141 054 22981	Rear cover
2c*	3139 124 36511	Cabinet	11f*	3141 057 81031	Rear cover (12AV+SVHS)
2de*	3139 124 40372	Cabinet	12ab*	3139 124 41141	Side AV bracket
2f*	3141 047 69561	Cabinet			
3	4822 505 11195	CRT fixing screw	12cf*	3139 124 39541	Side AV bracket (HP+3AV)
3f*	3104 308 77012	CRT fixing screw	12de*	3139 124 37061	Side AV bracket (HP+3P)
4ab*	3139 124 33472	Degaussing coil bracket	13	3139 124 39161	VO plate for rear cover
4ab*	4822 492 71627	Degaussing coil bracket	13cf*	3139 124 33341	VO plate
			14	3139 124 42891	Screw cap for rear cover
4cde*	3141 054 22351	Degaussing coil bracket	14cf*	Not applicable	
4f*	Not applicable		15	Not applicable	
5a*	9301 904 98521	Picture tube A51QDJ279X77(N)/(56A, 57R, 71R, 97R)	16abde*	3139 124 40331	Chassis guide (HB)
		Picture tube A51QDJ279X77(Q)/(65R, 67R, 68R, 69R)	16abde*	4822 463 11226	Chassis guide (VO)
		Picture tube A51QDJ279X77(S)/(79R)	16cf*	3139 124 30811	Chassis guide (VO)
5a*	9301 904 99521	Picture tube A51QDJ279X77(N)/(56A, 57R, 71R, 97R)			
5a*	9301 906 40521	Picture tube A51QDJ279X77(S)/(79R)	17	4822 157 11444	Degaussing coil 21" (multi volt-age)
			17h*	3139 128 23191	Degaussing coil 21" (single volt-age) (779R)
5b*	9322 196 08682	Picture tube A51LYZ095X01	a*	3139 128 75230	Mains cord AUS/NZ
5c*	9322 202 27682	Picture tube A51AKL13X10	c*	2422 070 98236	Mains cord
5de*	9322 196 08682	Picture tube A51LYZ095X01	bde*	2422 070 98199	Mains cord
5f*	9322 202 29682	Picture tube A51AKL13X10N	f*	2422 070 98231	Mains cord
5f*	9322 202 30682	Picture tube A51AKL13X10R (/79R)			
6	2422 264 00444	Loudspeaker 8Ω 10W	a*	21PT4320	
6cf*	2422 264 00409	Loudspeaker 8Ω 5W	b*	21PT5307	
7	3141 050 00301	Word mark (silver frost)	c*	21PT3324/56R	
8	3139 124 41421	Light guide	d*	21PT4323/56S	
8cf*	3139 124 32221	Light guide	e*	21PT4323/69S	
			f*	21PT3324/69R, /71R, /79R	
9abe*	3141 057 65651	Mains knob silver			

STYLING 398

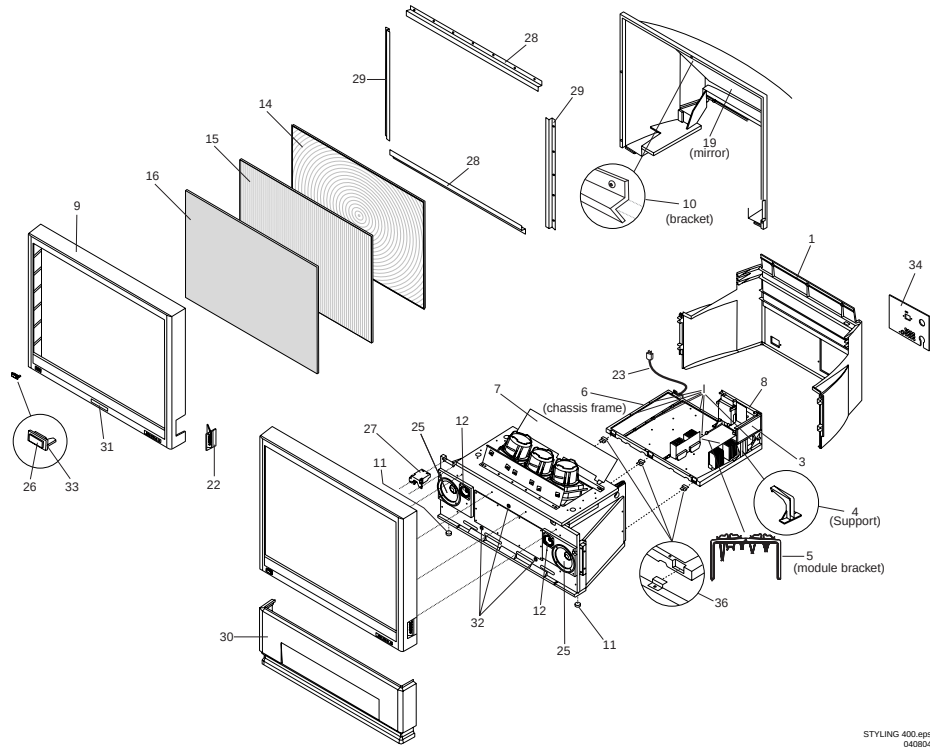


1	0134 660 64370	Word mark PHILIPS	0025 285 54011	Mains cord
2	0050 040 20170	Cover DVD	0054 150 20210	Mains cord UK
2	9051 040 20190	Cover DVD 14PT6007	0703 621 10151	Picture tube A33EKC02X01
3	Not applicable		0676 000 02181	Antenna rod
4	6085 800 03510	Degaussing coil	0676 000 02161	Antenna loop -/05
5	9054 610 03800	Transparent window		
6	9051 082 02600	Mains knob		
6	9051 082 03330	Mains knob 14PT6007		
7	0810 000 00141	Mains switch		
8	0051 070 00200	Control button		
8	9051 082 03340	Control button 14PT6007		
9	9051 101 42860	Cabinet		
9	9051 001 43130	Cabinet 14PT6007		
10	9051 100 02820	Chassis rail left		
11	9051 100 02810	Chassis rail right		
12	8211 400 11001	DVS Combo loader DSL-760		
12	8417 100 00000	DVS Combo loader DSL-810		
12	8417 100 00120	DVS Combo loader Cason MTK1379		
12	8417 000 00010	DVS Combo loader Cason MTK1379 new		
12	8417 100 00270	DVS Combo loader Cason LC Multi		
	9051 040 20130	Cover DVD loader		
13	6103 081 70001	Loudspeaker 8Ω 5W		
15	9051 101 41810	Rear cover		
15	9051 101 41980	Rear cover 14PT6007		

Personal Notes:

This image shows a full page of white paper with horizontal blue or grey ruling lines, typical of notebook paper. The lines are evenly spaced and run across the width of the page. In the bottom right corner, there is small black text that reads "E_06532_012.ep" followed by "1310p".

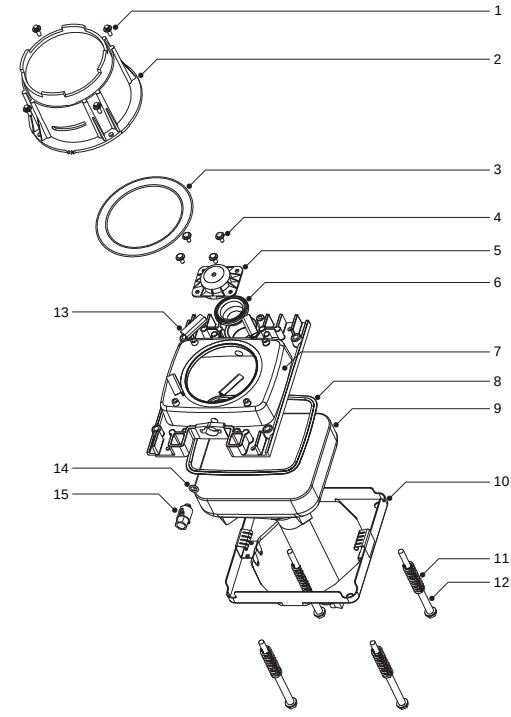
STYLING 400a



STYLING 400a.eps
040804

1	3135 034 01381	Rear cover	15	3135 033 20061	Lenticular lens
1elm*	3135 033 00321	Rear cover	16c*	3135 034 00931	Protection screen
1i*	3135 014 10133	Rear cover	16e*	3135 034 01321	Protection screen
2	3135 037 51751	Rear upper assembly	19	3135 034 90081	Mirror
2efg*	3135 037 72051	Rear upper assembly	19efg*	3135 034 90051	Mirror
3abc*	3135 014 10062	Pip frame	19h*	3135 034 90101	Mirror
4abcd*	3135 014 10321	SSB support bracket	22a*	3135 037 51951	Side jack assy
5	3135 034 01021	Module bracket	22b*	3135 037 70961	Side jack assy
6	3135 034 01991	Chassis frame	22eff*	3135 037 70971	Side jack assy
6i	3135 034 01042	Chassis frame	22g*	3135 037 54881	Side jack assy
7	3135 033 01361	Rear barrier	22h*	3135 037 54861	Side jack assy
7efg*	3135 033 01031	Rear barrier	22ik*	3135 037 54041	Side jack assy
8	3135 034 02011	Frame rear jack panel	22jm*	3135 037 10581	Side jack assy
8hm*	3135 034 02532	Frame rear jack panel	23a*	2422 070 98157	Mains cord UK
9abc*	3135 037 51241	Front assy	23be*	2422 070 98163	Mains cord EU
9d*	3135 037 51931	Front assy	23eg*	2422 070 98264	Mains cord AUS/NZ
9e*	3135 037 52412	Front assy	23ehijkm*	2422 070 98154	Mains cord CH
9f*	3135 037 72111	Front assy	23i*	2422 070 98165	Mains cord Korea
9g*	3135 037 51881	Front assy	25	2422 264 00453	Loudspeaker woofer
9hijk*	3135 037 53971	Front assy	26	3135 037 50981	Button
9i*	3135 037 72121	Front assy	26d*	3135 037 52061	Button
9m*	3135 037 53931	Front assy	26efg*	3135 034 00691	Button
10abcdh*	3135 011 04611	Mirror mounting bracket	27	3135 014 10361	Housing vacation switch
10abcdh*	3141 051 20471	Mirror mounting bracket left	28bh*	3135 034 01452	Screen top and bottom bracket
10abcdh*	3141 051 20481	Mirror mounting bracket right	28c*	3135 034 00941	Screen top and bottom bracket
10efg*	3135 034 03461	Mirror mounting bracket	28ad*	3135 011 04481	Screen top and bottom bracket
10efg*	3135 034 03451	Mirror mounting bracket	28e*	3135 034 01221	Screen top and bottom bracket
10efg*	3135 034 03491	Mirror mounting bracket	28m*	3135 034 04121	Screen top and bottom bracket
11	3135 010 09741	Foot	29bh*	3135 034 01461	Screen side bracket
12	2422 264 00452	Loudspeaker tweeter	29c*	3135 034 00951	Screen side bracket
12hijkm*	2422 264 00497	Loudspeaker full range	29ad*	3135 011 04491	Screen side bracket
14	3135 033 20171	Fresnel lens	29e*	3135 034 01271	Screen side bracket
14e*	3135 033 20181	Fresnel lens	29m*	3135 034 04111	Screen side bracket
15	3135 033 20141	Lenticular lens			

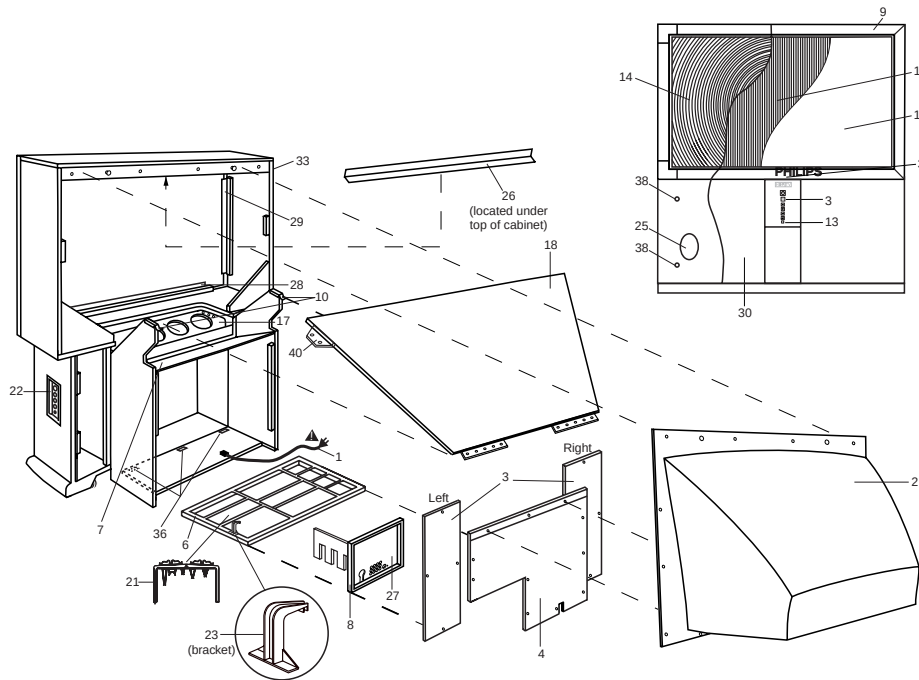
STYLING 400b



STYLING 400b.eps
050804

Styling 400a (Continued)					
30	3135 037 71561	Grill assy (Baffle assy)	*e	46PP8621/57, 46PP8621/69, 46PP8621/79, 46PP8621/93	
30d*	3135 037 71331	Grill assy (Baffle assy)	*f	43PP8621/57, 43PP8421/69	
30efg*	3135 033 00751	Grill assy (Baffle assy)	*g	43PP8421/79, 43PP8421/93	
30hk*	3135 037 53991	Grill assy (Baffle assy)	*h	43PP8441/93	
30i*	3135 037 53911	Grill assy (Baffle assy)	*i	43PP8442/93	
30j*	3135 037 53981	Grill assy (Baffle assy)	*j	43PP8443/93	
30l*	3135 037 51801	Grill assy (Baffle assy)	*k	43PP8541/93	
30m*	3135 037 53781	Grill assy (Baffle assy)	*l	46PP8621/61	
31	3135 120 01172	Word mark	*m	46PP8741/93	
31efg*	3141 050 00151	Word mark			
31h*	4822 459 11228	Word mark			
32	3135 013 02761	Baffle mounting cup	Styling 400b		
33	3135 037 71061	Vacation switch button assy	1	3135 010 02971	Screw (lens to coupler)
33efg*	3135 037 71081	Vacation switch button assy	2	3135 034 00731	Lens C-element green
33h*	3135 014 10421	Vacation switch button assy	2	3135 034 00721	Lens C-element red-blue
34	3135 030 00161	Label overlay rear jack panel	3	3135 013 02632	Coupler green
34	3135 030 00202	Label overlay rear jack panel - / 61	4	3135 010 02981	Screw
		Label overlay rear jack panel	5	3135 014 02681	Cap coupler
34m*	3135 030 00321	Solar cell assy	6	4822 418 10413	Expansion diaphragm
	3135 038 70081	Projection tube P16LTG00HHA	7	3135 031 60011	Coupler red-blue
	9322 173 21682	Projection tube P16LTG00RFA	7	3135 031 60021	Coupler green
	9322 173 22682	Projection tube P16LTG00BMB	8	4822 532 13123	Seal CRT
*hijk	9322 202 91682	Projection tube P16LXL00RFA	9	9322 173 22682	Picture tube P16LTG00RFA
*hijk	9322 202 92682	Projection tube P16LXL00HHA	9	9322 173 21682	Picture tube P16LTG00HHA
*hijk	9322 202 93682	Projection tube P16LXL00BMB	9	9322 173 23682	Picture tube P16LTG00BMB
	9965 000 23140	Convergence template 43" 4/3	10	3135 011 02371	Bracket CRT
elm*	9965 000 20169	Convergence template 46" 16/9	11	4822 492 11733	Spring
			12	3135 010 08101	Screw
			13	3135 014 02811	CRT pad
*a	43PP8420/57		14	4822 530 10519	O-ring
*b	43PP8420/69		15	4835 432 17791	Plug vent
*c	43PP8320/93			4822 310 67032	Cooling fluid
*d	43PP8420/93				

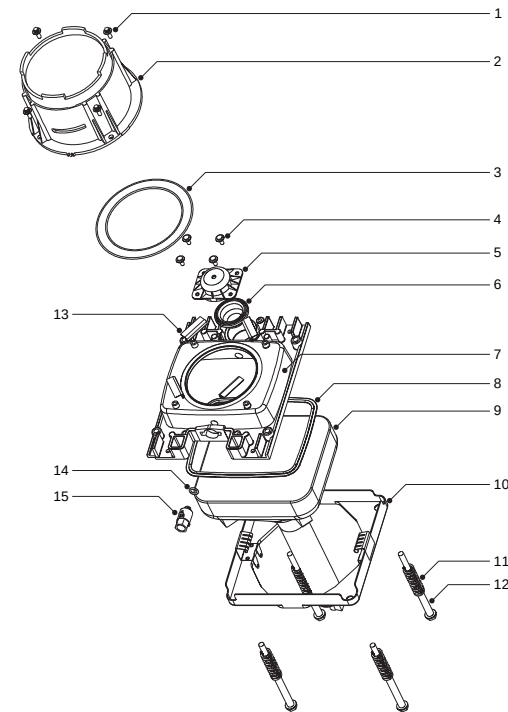
STYLING 401a



STYLING 401a.eps
040904

1ac*	2422 070 98163	Mains cord EUR	13	3135 014 10231	Window IR receiver
1b*	2422 070 98155	Mains cord AUS/NZ			
1de*	2422 070 98154	Mains cord CH	14	3135 033 20201	Fresnel lens
1g*	2422 070 98165	Mains cord Korea	14e*	3135 033 20191	Fresnel lens
2	3135 037 70991	Back upper cabinet	15	3135 033 20081	Lenticular lens
			15e*	3135 033 20071	Lenticular lens
2dg*	3135 034 00791	Back upper cabinet	16abdg*	3135 034 00922	Protector screen HDR
2e*	3135 034 02211	Back upper cabinet			
3	3135 033 00381	Cabinet back cover end	17	3135 034 00891	Light barrier
3d*	3135 033 00951	Cabinet back cover end	18	3135 034 90061	Mirror
3e*	3135 033 00811	Cabinet back cover end	18e*	3135 034 90021	Mirror
			21	3135 034 02513	Bracket
3g*	3135 033 01042	Cabinet back cover end	21g*	3135 034 01022	Bracket
4	3135 033 00321	Cabinet back cover centre			
4e*	3135 033 00801	Cabinet back cover centre	22	3135 035 50731	Side jack panel assy
5	3135 037 50971	Front control housing	25	2422 264 00453	Loudspeaker woofer
6	3135 034 01991	Chassis frame	25e*	2422 264 00497	Loudspeaker
			26	3135 011 01623	Rail
7	3135 013 03721	Centre barrier for UL	26e*	3135 011 03641	Rail
8	3135 034 01033	Frame rear jack			
8c*	3135 034 02011	Frame rear jack	27	3135 030 00161	Label rear jack
8de*	3135 037 02532	Frame rear jack	27de*	3135 030 00321	Label rear jack
8g*	3135 034 02542	Frame rear jack	27g*	3135 030 00202	Label rear jack
			28	3135 034 01781	Retainer screen horizontal
9ac*	3135 037 70921	Screen frame assy	28d*	3135 034 04081	Retainer screen horizontal
9b*	3135 037 71401	Screen frame assy			
9d*	3135 034 00781	Screen frame assy	28e*	3135 034 04121	Retainer screen horizontal
9e*	3135 037 53951	Screen frame assy	28g*	3135 034 03291	Retainer screen horizontal
9f*	3135 037 72321	Screen frame assy			
9g*	3135 037 52511	Screen frame assy			
10	3135 011 04751	Mirror bracket			
10deg*	3135 011 03003	Mirror bracket			
11	3135 034 00691	Button			

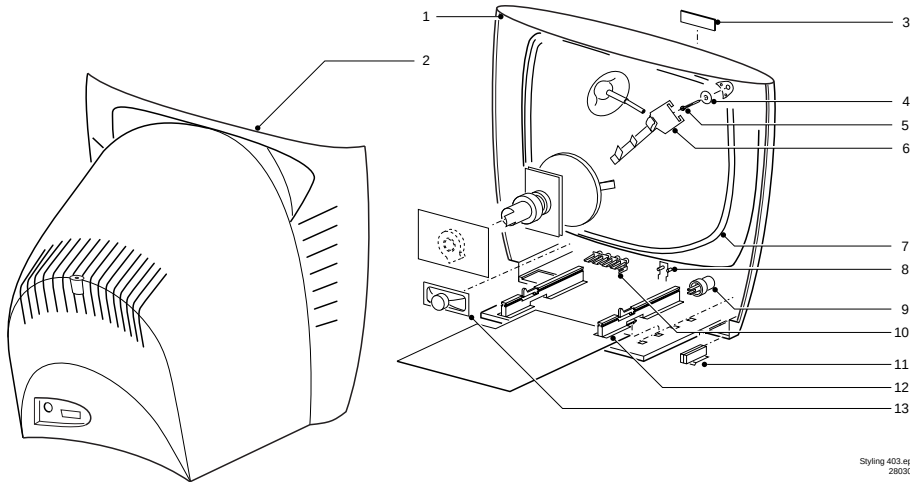
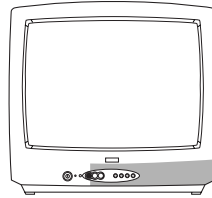
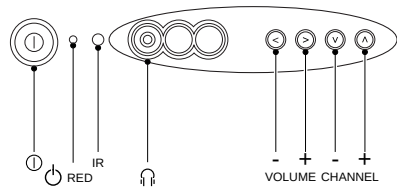
STYLING 401b



STYLING 401b.eps
050904

Styling 401a (continued)			Styling 401b		
29	3135 034 01791	Retainer screen vertical	1	3135 010 02971	Screw (lens to coupler)
29d*	3135 034 04091	Retainer screen vertical	2	3135 034 00731	Lens C-element green
29e*	3135 034 04101	Retainer screen vertical	2	3135 034 00721	Lens C-element red-blue
29g*	3135 034 03311	Retainer screen vertical	3	3135 013 02632	Seal lens
30	3135 037 50651	Baffle speaker grill (Baffle assy)	4	3135 010 02981	Screw
30d*	3135 037 53851	Baffle speaker grill (Baffle assy)	5	3135 014 02681	Cap coupler
30e*	3135 037 53781	Baffle speaker grill (Baffle assy)	6	4822 418 10413	Expansion diaphragm
31	3135 050 00151	Word mark	7	3135 011 04271	Coupler red-blue
31deg*	3135 030 00471	Word mark	7	3135 011 04281	Coupler green
32abdeg*	2422 264 00452	Loudspeaker tweeter	8	4822 532 13123	Seal CRT
33	3135 037 50692	Cabinet assy	9	9322 173 22682	Picture tube P16LTG00RFA
33d*	3135 037 53831	Cabinet assy	9	9322 173 21682	Picture tube P16LTG00HHA
33e*	3135 037 53922	Cabinet assy	9	9322 173 23682	Picture tube P16LTG00BMB
33g*	3135 037 52425	Cabinet assy	10	3135 011 02371	Bracket CRT
38	3135 013 02761	Baffle mounting cup	11	4822 492 11733	Spring
40	3135 014 03461	Mirror bracket	12	3135 010 08101	Screw
40	3135 014 03451	Mirror bracket	13	3135 014 02811	CRT pad
40	3135 014 03471	Mirror bracket	14	4822 530 10519	O-ring
	3135 034 00911	Cabinet foot	15	4835 432 17791	Plug vent
	3135 014 10062	PIP frame		4822 310 67032	Cooling fluid
	3135 014 10361	Housing vacation switch			
*a	55PP8620/69				
*b	55PP8620/79				
*c	55PP8620/93				
*d	55PP8741/93				
*e	50PP8541/93				
*f	50PP8421/69				
*g	55PP8621/61				

STYLING 403

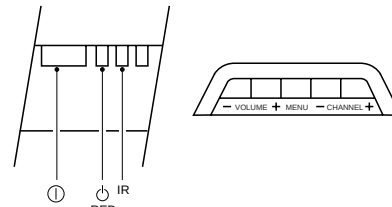


Styling 403.aps
280303

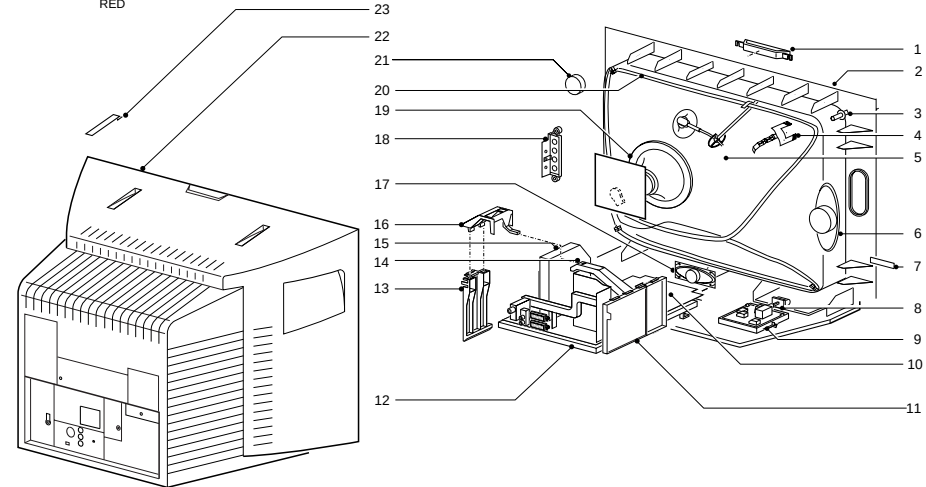
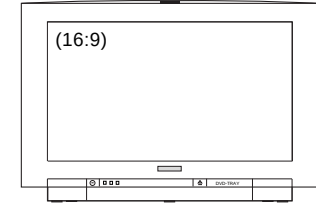
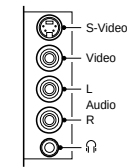
1a*	9051 101 42880	Cabinet	0676 000 02181	Rod antenna 14"
1b*	9051 101 42900	Cabinet		
1cd*	9051 122 03050	Cabinet		
1e*	9051 101 42930	Cabinet		
2a*	9051 101 41600	Rear cover		
2b*	9051 001 41830	Rear cover		
2cd*	9051 120 07400	Rear cover		
3	0134 660 61870	Word mark PHILIPS 14"		
3	0134 660 61820	Word mark PHILIPS 20"		
4	Not applicable			
5	0156 112 32130	CRT screw 14"		
5	0156 112 32140	CRT screw 20"		
6	0050 020 00240	Degaussing coil bracket		
7	6085 800 03600	Degaussing coil 14"		
7	6085 800 03410	Degaussing coil 20"		
8	0050 150 23200	Window 14"		
8	0050 150 23220	Window 20"		
9	9051 182 02680	Mains knob 14"		
9cde*	9051 182 02540	Mains knob 20"		
10	9051 182 02690	Control knob 14"		
10cde*	9051 182 02520	Control knob 20"		
11	0054 150 22960	Mains cord relief		
12	9051 100 02630	Chassis guide right		
12	9051 100 02640	Chassis guide left		
13	6103 081 70011	Loudspeaker 16Ω 4W 50x90mm		
	0703 621 10151	Picture tube A33EK02X01		
	0705 121 12191	Picture tube A48EK02X01		
	0676 000 02161	Loop antenna 14"		

STYLING 404

FRONT + TOP CONTROL



SIDE I/O



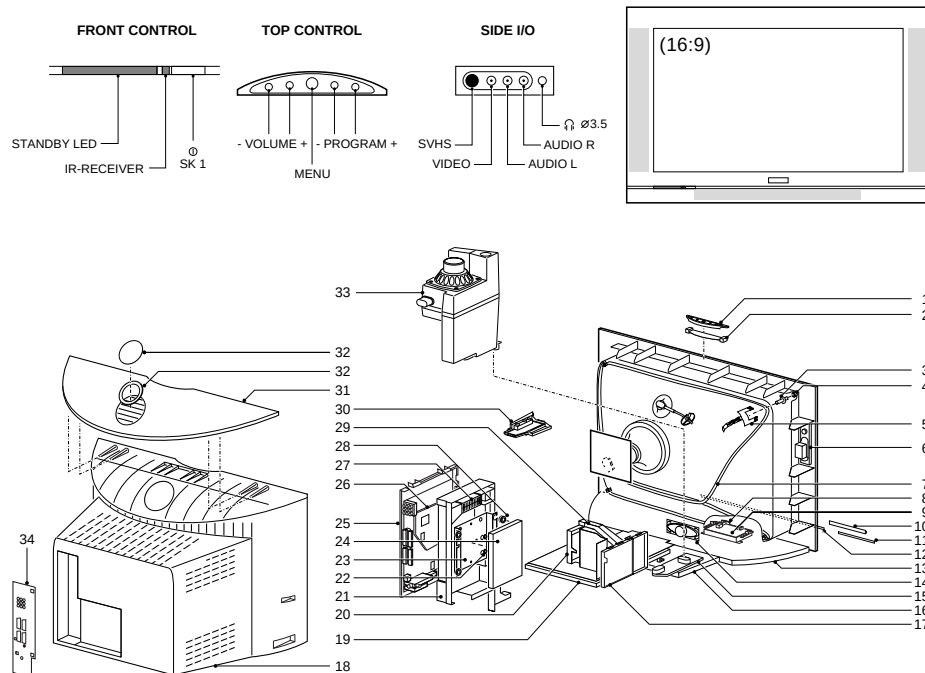
STYLING 404.aps
040804

1	3139 187 22921	Top control assy	15	3104 301 24221	Shielding cover SSB (Z-side)
2a*	3104 328 23791	Cabinet assy	16	3104 304 24153	SSB top support bracket
2b*	3104 328 23921	Cabinet assy	17	3139 128 76581	Loudspeaker (centre)
2c*	3104 328 23931	Cabinet assy	18	3139 177 25701	Side I/O assy
3a*	3111 250 40031	CRT screw			
3b*	3104 308 74042	CRT screw			
4a*c*	4822 404 31289	Bracket fix deg. coil short (2x)	18	3139 124 32522	Side I/O panel bracket
4b*	3104 304 21092	Bracket fix deg. coil short	19	3104 304 21032	Rotation coil bracket
4a*	4822 403 70906	Bracket fix deg. coil long (2x)	20a*	2422 549 44244	Degaussing coil
4b*	3104 304 21092	Bracket fix deg. coil short	20b*	2422 549 44242	Degaussing coil
5a*	9301 895 00306	Picture tube W76ERF052X044	20c*	2422 549 44621	Degaussing coil
			21	3104 304 25691	Cover tweeter hole
5a*	9301 880 70301	Picture tube W76ERF042X044	22a*	3104 308 10111	Rear cover assy
5a	9322 173 93682	Picture tube W76EKW 10X73	22b*	3104 308 10141	Rear cover assy
5b*	3104 300 50301	Picture tube W86LPX955X + yoke	22c*	3104 308 10151	Rear cover assy
5c*	9301 899 90301	Picture tube W66ERF042X044	23	3139 124 40421	Screw cap rear cover
6	3139 128 76081	Loudspeaker (Left/Right)			
7a*c*	3104 300 12031	Word mark			
7b*	3104 300 11991	Word mark			
8	3139 177 55091	Mains knob assy			
9	3139 124 32521	Front interface bracket			
10	3104 304 23041	DAF/DC-shift panel bracket			
11	3104 304 23062	Connecting part EMGS			
12	3104 304 23001	LSP bracket			
13	3104 304 24141	SSB bottom support bracket			
14	3104 304 24132	LOT support bracket			
15	3104 301 24191	Shielding frame SSB (A-side)			
15	3104 301 24201	Shielding frame SSB (Z-side)			
15	3104 301 24211	Shielding cover SSB (A-side)			

*a	32PW9308/xxx
*b	36PW9308/xxx
*c	28PW9308/xxx

4622 009 50491	Mains cord (/005)
4822 321 11499	Mains cord (/12)
3104 304 20182	Mains cord holder
3128 147 14861	Remote control RC2080/01

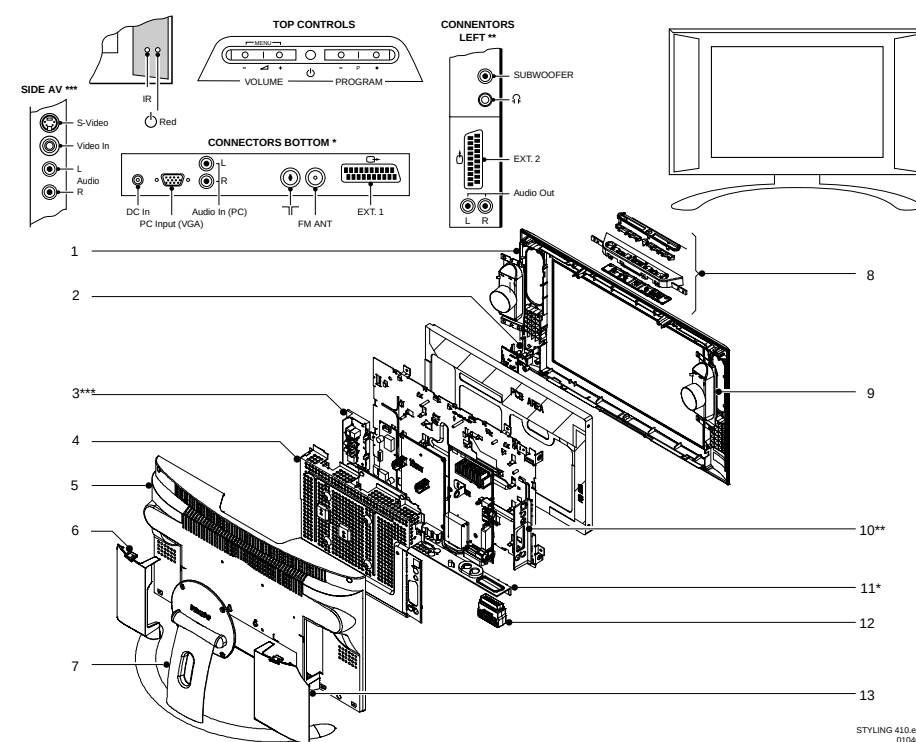
STYLING 406



STYLING 406.eps
040804

1	3104 307 98241	Top control keypad	26	3104 301 24221	Shielding cover SSB (Z-side)
2	3104 304 23431	Top control bottom	27	3104 304 25122	rubber fan
3	4822 404 31294	Insert (VP19000)	27	3104 031 00014	Fan
4	4822 502 21359	Picture tube screw	28	3104 304 25111	Grommet
5	3104 304 21091	Bracket fix deg. coil short (4x)	29	3104 304 24131	Bracket LOT-support
6	2422 264 00429	L/R loudspeaker (2x)	30	3104 328 26751	Side I/O assy
7a*c*e*	3104 308 20401	Degaussing coil	30	3104 304 23481	Side I/O bracket
7b*	2422 549 44921	Degaussing coil	31-32a*c*e*	3104 307 98642	Top cover assy (incl. disc)
8	3104 307 97621	Mains switch knob	31-32b*	3104 307 98652	Top cover assy (incl. disc)
9	3104 304 23471	Bracket Mains Switch panel	31-32d*	3104 307 98632	Top cover assy (incl. disc)
10	3104 304 23461	Light guide	32	3104 308 78201	Rubber earring
11	3104 304 23621	Deco strip left	32	3104 304 24002	Flying saucer
12	3104 304 23631	Deco strip right	33	3104 130 01981	Subwoofer box
13a*c*	3104 328 24983	Cabinet assy	34	3104 304 24951	Cover plate SCART3/wireless
13b*	3104 328 24973	Cabinet assy			
13d*	3104 328 24992	Cabinet assy			
13e*	3104 328 26743	Cabinet assy			
14	2422 264 00431	Centre loudspeaker (1x)			
15	3104 304 24241	Bracket Subwoofer support			
16	3104 304 23501	Bottom plate			
17	3104 304 23041	Bracket DAF/DC-shift panel			
18a*c*e*	3104 307 99661	Rear cover assy			
18b*	3104 308 10041	Rear cover assy			
18d*	3104 308 10051	Rear cover assy			
19	3104 304 23003	Frame for LSP			
20	3104 304 24951	Bracket Auto Scavem			
21	3104 304 24982	HD Bracket			
22	3104 304 26182	Grommet			
23	3104 301 62353	HD Support			
24	3104 301 24232	Shielding plate			
25	3104 304 24141	Bracket SSB			
26	3104 301 24191	Shielding frame SSB (A-side)			
26	3104 301 24201	Shielding frame SSB (Z-side)			
26	3104 301 24211	Shielding cover SSB (A-side)			

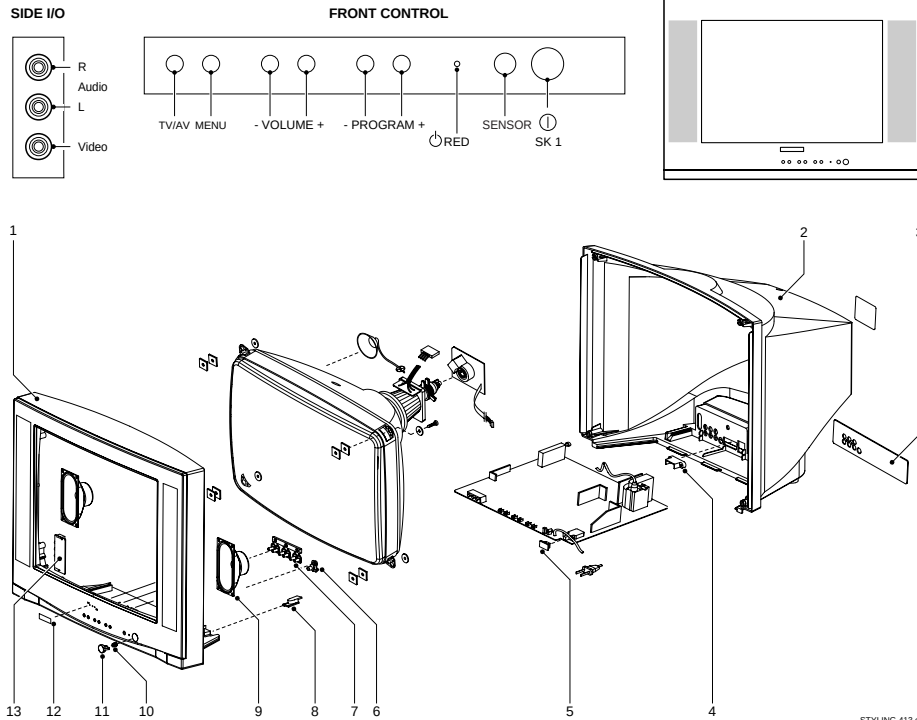
STYLING 410



STYLING 410.eps
010403

1a*	3111 257 59421	Cabinet 15"		
1b*	3111 257 59881	Cabinet 15"	3139 128 76811	Voltage adaptor AC/DC 12V
1c*	3111 257 59431	Cabinet 17"	3128 147 14871	Remote control RC19042008/01
1de*	3111 257 59891	Cabinet 17"		
2	3139 124 43391	Light guide (LCD LENS)	9322 187 14682	TFT-LCD screen 15" / LC151X01-C3P1
3	3139 177 55321	Side AV connector plate	9322 196 31682	TFT-LCD screen 15" / LC150X01-A3
4ace*	3139 121 27281	Main shield	9322 187 15682	TFT-LCD screen 17" / LM171W01-B3
4bd*	3139 121 27631	Main shield		
5a*	3111 257 59451	Rear cover 15"	9322 196 32682	TFT-LCD screen 17" / LC171W03-A4
5b*	3111 257 59901	Rear cover 15"		
5c*	3111 257 59461	Rear cover 17"		
5de*	3111 257 59911	Rear cover 17"		
6a*	3139 177 55191	Side connector cover right 15"	*a	15PF9936, 15HF9936
6b*	3139 177 69241	Side connector cover right 15"	*b	15PF9936/xxl
6ce*	3139 177 55171	Side connector cover right 17"	*c	17PF9945
			*d	17PF9945/xxl
			*e	17HF9945
6d*	3139 177 69271	Side connector cover right 17"		
7	3139 128 76731	Stand		
8ace*	3139 187 28901	Top control		
8bd*	3139 177 74561	Top control		
9	2422 264 00465	Loudspeaker 16Ω 10W		
10ab*	3139 177 59701	Connector cover left 15"		
10cde*	3139 177 55341	Connector cover left 17"		
11	3139 177 55331	Bottom connector plate		
12	3139 128 76871	Scart adaptor		
13a*	3139 177 55181	Side connector cover left 15"		
13b*	3139 177 69251	Side connector cover left 15"		
13c*	3139 177 55161	Side connector cover left 17"		
13d*	3139 177 69261	Side connector cover left 17"		
	3139 120 01511	Word mark		

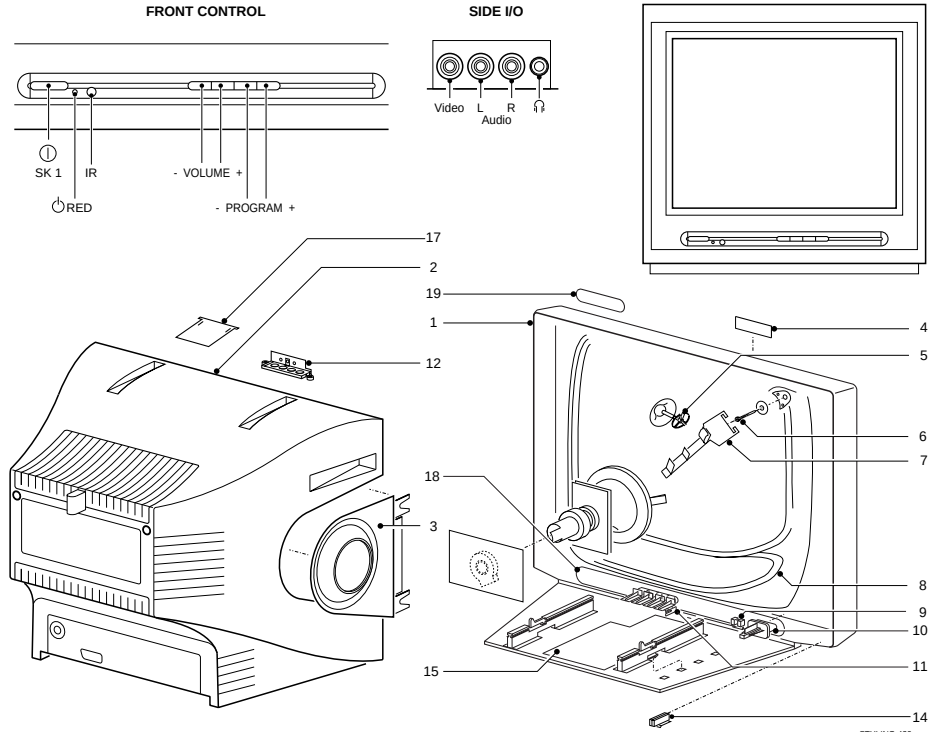
STYLING 413



STYLING 413.eps
050404

1a*	9965 000 14946	Cabinet	acd*	9965 000 14950	Holder mains cord
1b*	9965 000 23466	Cabinet	be*	9965 000 23469	Holder mains cord
1c*	9965 000 17925	Cabinet	abc*	9965 000 14948	Window
1d*	9965 000 15425	Cabinet	d*	9965 000 15430	Window
1e*	9965 000 23500	Cabinet	ef*	9965 000 17983	Window
			-	9965 000 15210	FBT supporter
1f*	9965 000 17978	Cabinet	ac*	9965 000 14942	Picture tube 37SX110Y22-DC05
2a*	9965 000 14906	Rear cover	b*	9965 000 23471	Picture tube A34KPU02XXE6-N
2b*	9965 000 15205	Rear cover	df*	9965 000 17980	Picture tube A51JSY63X13
2c*	9965 000 17935	Rear cover	e*	9965 000 23503	Picture tube A51QAE320XA5
2d*	9965 000 15400	Rear cover	a*	9965 000 14940	Degaussing coil 14"
2e*	9965 000 17960	Rear cover	bc*	9965 000 17927	Degaussing coil 14"
2f*	9965 000 17986	Rear cover	d*	9965 000 15420	Degaussing coil 21"
3b*	9965 000 23472	Inlay rear AV	ef*	9965 000 17979	Degaussing coil 21"
3e*	9965 000 23504	Inlay rear AV	a*	9965 000 14904	Side AV assy
5acd*	9965 000 14951	Adapter for mains switch	b*	9965 000 23474	Side AV assy
5be*	9965 000 23470	Adapter for mains switch	-	9965 000 23467	Inlay side AV
5f*	9965 000 17919	Adapter for mains switch	c*	9965 000 17921	Side AV assy
7a*	9965 000 14946	Control knobs	e*	9965 000 15395	Side AV assy
7bc*	9965 000 17930	Control knobs	e*	9965 000 23506	Side AV assy
7d*	9965 000 15429	Control knobs	f*	9965 000 17976	Side AV assy
7ef*	9965 000 17982	Control knobs	*a	14PT2010	
9ab*	9965 000 14941	Loudspeaker 16Ω 5W 50x90mm	*b	14PT2014	
9c*	9965 000 17928	Loudspeaker 16Ω 3W 50x90mm	*c	14PT2110	
9df*	9965 000 15421	Loudspeaker 8Ω 6W 50x120mm	*d	21PT2010	
9e*	9965 000 23499	Loudspeaker 16Ω 5W 50x120mm	*e	21PT2014	
			*f	21PT2110	
10ac*	9965 000 14953	Spring for mains knob			
10b*	9965 000 23468	Spring for mains knob			
10df*	9965 000 15435	Spring for mains knob			
10e*	9965 000 23502	Spring for mains knob			
11a*	9965 000 14949	Mains knob			
11bc*	9965 000 17931	Mains knob			
11d*	9965 000 15431	Mains knob			
11ef*	9965 000 17984	Mains knob			
12abc*	9965 000 17933	PHILIPS emblem			
12def*	9965 000 17985	PHILIPS emblem			

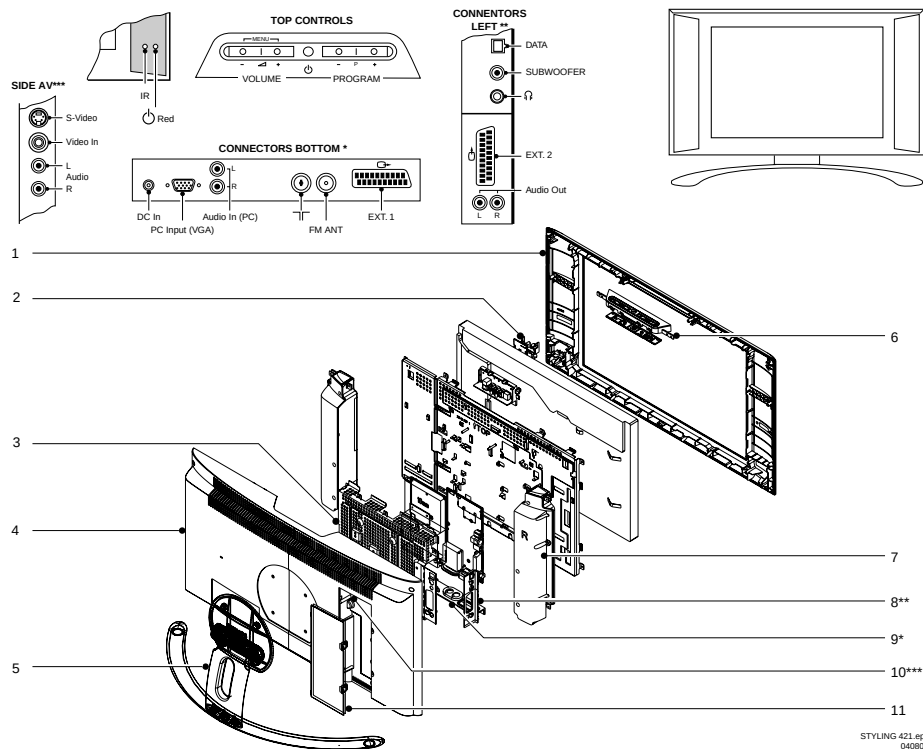
STYLING 420



STYLING 420.eps
050804

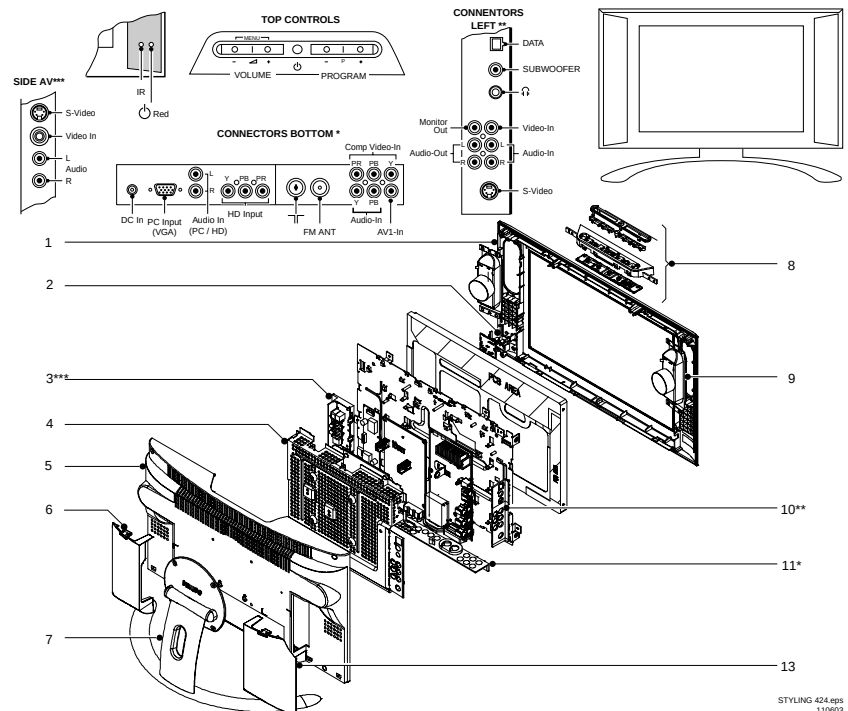
1a*	3111 257 59831	Cabinet 15" silver	8f*	2422 549 45514	Degaussing coil 21"
1b*	3111 257 59821	Cabinet 15" blue	9ab*	3139 124 47031	Light guide 15"
1cd*	3139 177 56661	Cabinet 21"	9cde*	3139 124 44271	Light guide 21"
1e*	3139 177 63491	Cabinet 21" hotel	10ab*	3139 177 69981	Mains knob 15"
1f*	3127 104 01011	Cabinet 21"	10cde*	3139 177 56621	Mains knob 21"
			11ab*	3139 177 69991	Control knobs 15"
2a*	3111 257 59871	Rear cover 15" silver	11cdef*	3139 177 56631	Control knobs
2b*	3111 257 59861	Rear cover 15" blue	12cdef*	3139 124 44371	Side AV bracket (stereo)
2c*	3111 257 59591	Rear cover 21" (1 Scart)	12a*	3139 124 47221	Side AV bracket
2d*	3111 257 59621	Rear cover 21" (2 Scart)	12b*	3139 124 47211	Side AV bracket
2e*	3111 257 59631	Rear cover 21" (hotel)	13	3139 124 34092	Chassis guide (right)
2f*	3127 107 50031	Rear cover 21"	14	3104 304 14765	Mains cord holder
3a*	3139 177 71621	Speaker bracket silver	15	3139 124 33341	VO plate
3b*	3139 177 71541	Speaker bracket blue	17	3139 124 39161	PV2 TOP VO PLATE
3c*	3139 177 56741	Speaker bracket 21"	18a*	3139 177 71561	Front lens
3f*	3139 124 44291	Speaker bracket 21"	18b*	3139 177 71551	Front lens
3ab*	2422 264 00407	Loudspeaker 16Ω 8W	19e*	313917763481	Clock lens
3c*	2422 264 00414	Loudspeaker 8Ω 8W 21"		3138 101 66552	CRT plate
3def*	2422 264 00398	Loudspeaker 16Ω 5W 21"	ab*	9322 191 16682	Picture tube 15" A36AKJ15X07
4a*	3139 120 01641	Word mark	cf*	9301 923 50342	Picture tube 21"
4b*	3139 120 01631	Word mark			A51ERF135X12
4cdef*	3111 250 01001	Word mark silver frost 21"			Rod antenna
5ab*	3111 254 23481	EHT clamp 15"		3111 257 56161	Mains cord EU
5cdef*	3111 254 23481	EHT clamp 21"		2422 070 98089	
6	3139 120 41471	CRT fixing screw	*a	15PT2967/xxS	*d21PT5457
6	3138 101 63952	CRT mounting washer	*b	15PT2967/xxB	*e21HT5504
7ab*	3119 104 18247	Degaussing coil bracket 15"	*c	21PT1967	*f21PT5409/01
7cde*	3139 124 33472	Degaussing coil bracket 21"			
8ab*	2422 549 44844	Degaussing coil 15"			
8cde*	2422 549 44669	Degaussing coil 21"			

STYLING 421



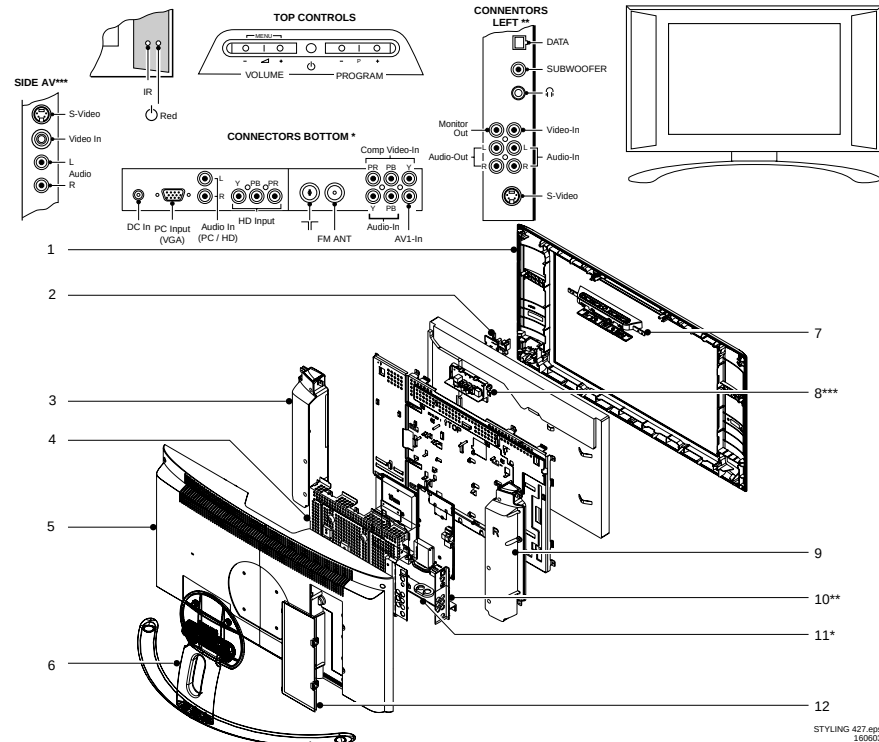
1	3111 257 59441	Cabinet 23"
1b*	3139 177 60881	Cabinet 23"
2	3139 124 43391	Light guide
3	3139 121 27281	Main shield
3b*	3139 121 28002	Main shield
4	3111 257 59471	Rear cover 23"
4b*	3139 177 53791	Rear cover 23"
5	3139 128 76741	Stand
6	3139 177 81421	Top control
7	3139 128 76781	Loudspeaker left
7	3139 128 76791	Loudspeaker right
7b*	3139 128 76782	Speaker assy left
7b*	3139 128 76791	Speaker assy right
8	3139 177 55341	Connector cover left
9a*	3139 177 64441	Bottom connector plate
10	3139 177 55321	Side AV connector plate
11	3139 177 55141	Connector cover
	3139 128 76871	Scart adaptor
	3139 120 01561	Word mark
	3139 128 76771	Voltage adaptor AC/DC 24V
	3128 147 14871	Remote control RC19042008/01
	9322 194 30682	TFT-LCD screen LC230W01
	9322 207 27682	TFT-LCD screen QD23W04
*a	23PF9945/12/58	
*b	23PF9945/12A	

STYLING 424



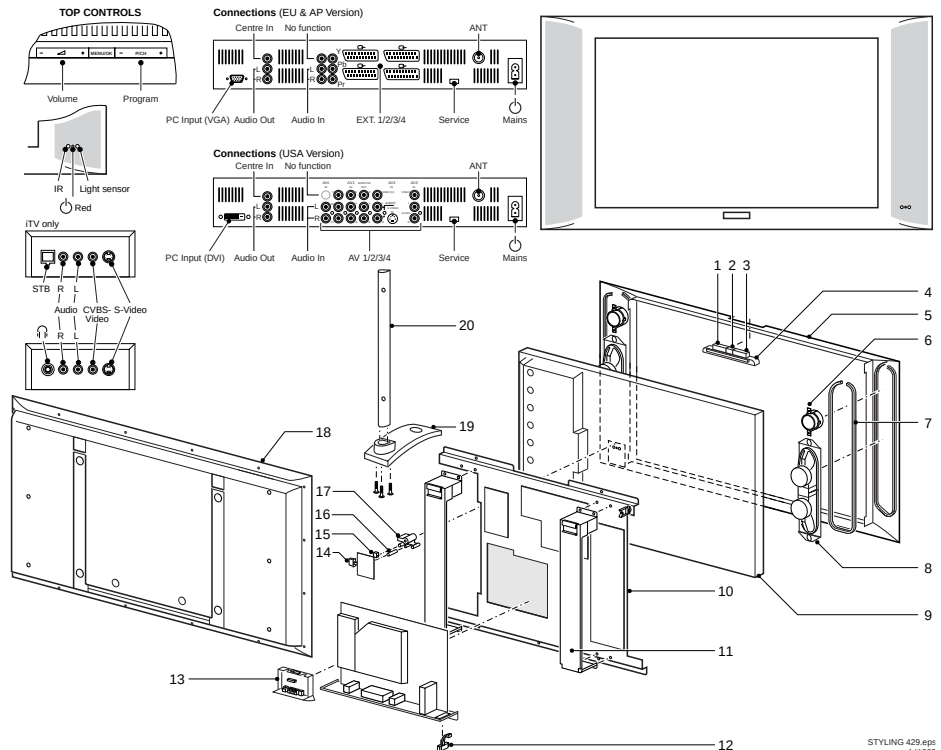
1a*	3139 177 60901	Front cabinet 15" (/69)	13bc*	3139 177 55161	Side connector cover 17" Left (/37, /69, /61 & /78) – TN LCD panel
1a*	3139 177 69301	Front cabinet 15" (/69)	13bcg*	3139 177 69261	Side connector cover 17" Left (/37, /69, /61, /69S, /61S & /78) IPS LCD panel
1ad*	3139 177 52761	Front cabinet 15" (/61, /37 & /78) – TN LCD panel	ade*	9322 187 14682	LCD panel LC151X01-C3P1 (15" TN type)
1a*	3139 177 75351	Front cabinet 15" (/61, /69S & /61S)	ad*	9322 196 31682	LCD panel LC151X01-A3 (15" IPS type)
1ad*	3139 177 70781	Front cabinet 15" (/37 & /78) – IPS LCD panel	bc*	9322 187 15682	LCD panel LM171W01-B3 (17" TN type)
1e*	3139 177 69931	Front cabinet 15" (/35)	bcg*	9322 196 32682	LCD panel LC171W03-A4 (17" IPS type)
1b*	3139 177 60891	Front cabinet 17" (/69 & /69)		3139 120 01511	Word mark PHILIPS (15"/17")
1bcf*	3139 177 60891	Front cabinet 17" (/37, /69S, /61S & /61)		3139 128 76811	AC/DC voltage adaptor 12V
1b*	3139 177 52911	Front cabinet 17" (/61 & /78)		3128 147 14881	Remote control RC19042009/01 (/69)
1g*	3141 047 69731	Front cabinet 17" (/37)		3139 238 03811	Remote control RC19041006/01 (/61, /35, /37 & /78)
2	3139 124 43391	Light guide		4822 303 50063	FM Radio antenna (/69)
3	3139 177 55321	Side AV bracket		3139 131 02781	FM Radio antenna (/61, /35, /37 & /78)
5ade*	3139 177 52811	Rear cover 15" (/37, /69 & /61) – TN LCD panel		2422 076 00527	TV antenna cable IEC (/69)
5ad*	3139 177 69291	Rear cover 15" (/69, /61, /69S, /61S & /37) – IPS LCD panel		2422 076 00526	TV antenna cable F-pin (/61, /35, /37 & /78)
5bcf*	3139 177 52881	Rear cover 17" (/37, /69 & /61) – TN LCD panel	*a	15PF9936	Note: 17HF9945There are two types of LCD panel used in NAFTA & Latam that the type nos. are the same. Therefore, in order to identify which type no is using which LCD panel, look at the production code of the set (normal pasted behind of rear-coverBZ00 or SV00 then it is using TN-type; if not,) *g17PF9946A then IPS-type is used
5bcg*	3139 177 69281	Rear cover 17" (/69, /61, /69S, /61S & /37) – IPS PCD panel	*b	17PF9945,	
6ade*	3139 177 55191	Side connector cover 15" Right (/37, /69, /61 & /78) – TN LCD panel	*c	17PF9936	
6ad*	3139 177 69241	Side connector cover 15" Right (/37, /69, /61, /69S, /61S & /78) – IPS LCD panel	*d	15PF9945	
6bcf*	3139 177 55171	Side connector cover 17" Right (/37, /69, /61 & /78) TN LCD panel	*e	15FT9955	
6bc*	3139 177 69271	Side connector cover 17" Right (/37, /69, /61, /69S, /61S & /78) IPS LCD panel	*f	17FW9955	
6e*	3139 177 55321	Side connector cover 15" Right (/35)			
7	3139 128 76731	Metal stand			
7g*	3139 128 77161	Metal stand			
8	3139 177 74571	Top control			
8g*	3139 188 51511	Top control			
9	2422 264 00465	Loudspeaker 16Ω 10W			
10	3139 177 55311	AV connector plate (TV board)			
10ef*	3139 177 55321	AV connector plate (TV board)			
11	3139 177 75971	Bottom connector plate			
11ef*	3139 177 55471	Bottom connector plate			
13ad*	3139 177 55181	Side connector cover 15" Left (/37, /69, /61 & /78) TN LCD panel			
13ad*	3139 177 69251	Side connector cover 15" Left (/37, /69, /61, /69S, /61S & /78) IPS LCD panel			
13e*	3139 177 55161	Side connector cover 15" Left (/35)			

STYLING 427



1ab*	3139 177 60881	Front cabinet 23" (/69)	acd*	2422 076 00526	TV antenna cable F-pin
1acd*	3139 177 53801	Front cabinet 23" (/61, /35, /37, /69S)	b*	2422 070 98262	Mains cord
2	3139 124 43391	Light guide	cd*	2422 070 98223	Mains cord
3	3139 128 76781	Speaker box Left			
5	3139 177 53791	Rear cover 23"	*a	23PF9945	
6	3139 128 76741	Metal stand 23"	*b	23HF9945	
6d*	3139 128 77151	Metal stand 23"	*c	23FW9955	
7	3139 177 74571	Top control assy	*d	23PF8946A	
8	3139 177 55321	Side AV bracket			
9	3139 128 76791	Speaker box Right			
10	3139 177 55311	AV connector plate (TV board)			
11	3139 177 75971	Bottom connector plate			
12	3139 177 55141	Rear AV cover			
	9322 194 30682	LCD panel LC230W01 – IPS type			
	3139 120 01561	Word mark PHILIPS			
d*	Not applicable	Word mark			
	3139 128 76771	AC/DC voltage adaptor 24V (caution: not compatible for 15" & 17")			
	3128 147 14881	Remote control RC19042009/01 (/69)			
acd*	3139 238 03811	Remote control RC19041006/01 (/61, /35, /37)			
acd*	4822 303 50063	FM Radio antenna (/69)			
	3139 131 02781	FM Radio antenna (/61, /35, /37 & /78)			
	2422 076 00527	TV antenna cable IEC (/69)			

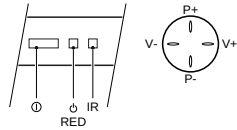
STYLING 429



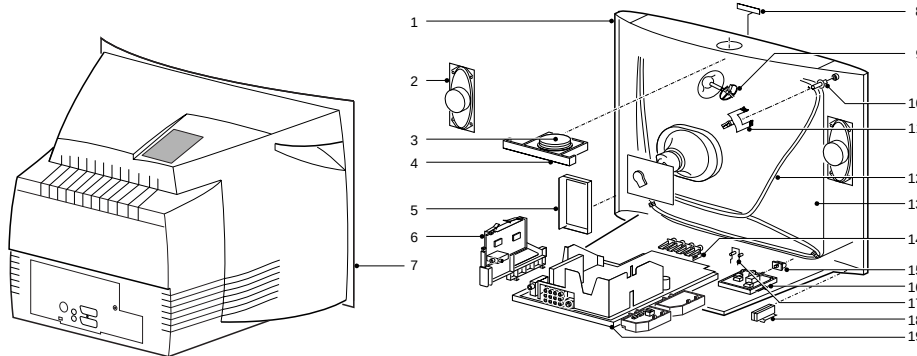
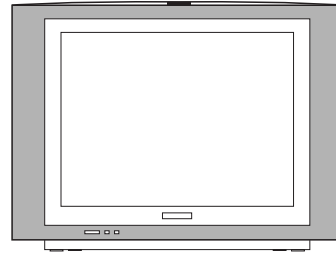
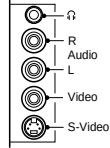
1	3104 308 10551	Knob right (program)	cfi*	3104 328 28012	Mounting kit
2	3104 308 10571	Knob middle (menu)	bde*	2422 070 98251	Mains cord
3	3104 308 10561	Knob left (volume)	ad*	2422 070 98259	Mains cord
4	3104 304 25831	Frame top control			
5abceh	3104 328 26183	Front assy	chi*	2422 070 98208	Mains cord
5dfi*	3104 328 26192	Front assy	ed*	2422 070 98146	Mains cord
5g*	3104 328 31041	Front assy	ed*	2422 070 98148	Mains cord
6	2422 264 00432	Loudspeaker tweeter		3104 301 24221	Cover Z-side HDH EU
7	3104 303 10791	Loudspeaker foam		3104 301 24461	Cover A-side low SSB
8	3104 308 78431	Loudspeaker 8Ω 15W full range			
9	9322 198 00682	TFT-LCD Panel LC300W01-A3P7		3104 301 24201	Frame Z-side HDH
9g*	9322 206 49682	TFT-LCD Panel T296XW01		3104 301 24451	Frame A-side low SSB
10	3104 328 27531	Chassis frame	*a	30PF9975/12	
11	3104 308 10621	Wall mount bracket	*b	30PF9975/05	
12	3104 311 06181	Mains inlet	*c	30PF9975/17	
13abceh*	3104 308 10671	Bracket side I/O	*d	30HF9975/12, 30HF9975/12Z, 30HF9975/69	
13dfi*	3104 308 11401	Bracket side I/O	*e	30PF9975/69	
14	3122 128 13901	Mains knob	*f	30FW9975/35	
14dhi*	3104 308 11271	Mains knob	*g	30PF9975/12A	
15	3122 124 36081	Day light filter	*h	30PF9975/77, 30PF9975/78	
			*i	30FW9955/35	
16	3122 124 36271	LED light guide cover			
17	3122 124 36071	Lens system			
18	3104 308 10521	Rear cover			
19	3104 308 11141	Stand foot			
20	3104 308 11151	Stand profile			
	3122 128 13701	Wall mount bracket			
abd*	3104 328 28001	Mounting kit			

STYLING 432

FRONT + TOP CONTROL



SIDE I/O

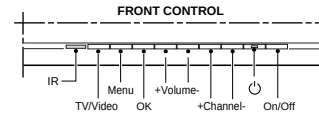


Styling 432.eps
250603

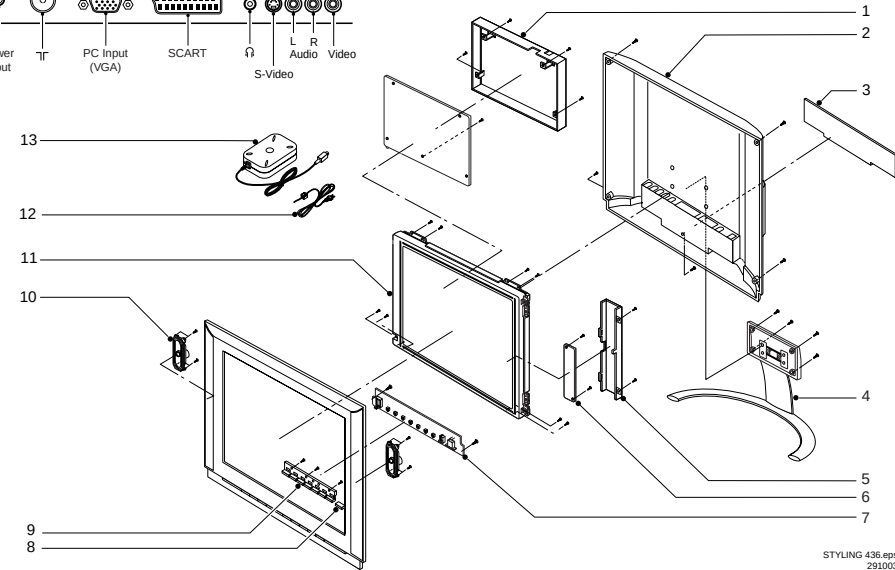
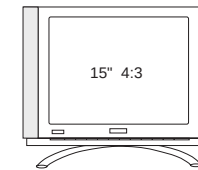
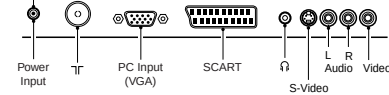
1acd*	3141 047 66001	Cabinet 29"
1bi*	3141 057 65231	Cabinet 29"
1fgh*	3141 047 66361	Cabinet 34"
1j*	3141 047 80831	Cabinet 34"
1k*	3141 047 82981	Cabinet 34"
1lm*	3141 047 83131	Cabinet 29"
2abcdeilm*	2422 264 00379	Loudspeaker 8Ω 10W
2fgh*	2422 264 00444	Loudspeaker 8Ω 10W
2j*	2422 264 00485	Loudspeaker 8Ω 15W
3	3139 137 66921	Top control button
4	3139 124 30381	Top control bracket
5lm*	3139 124 39541	Side AV bracket
5jk*	3139 124 60491	Side AV bracket (3P+HP+SV)
6	Not applicable	
7abcde*	3139 124 37231	Rear cover 29"
7fgh*	3139 124 44831	Rear cover 34"
7i*	3141 057 65241	Rear cover 29"
7j*	3139 124 60511	Rear cover 34"
7lm*	3141 047 65241	Rear cover 29"
8acde*	3141 050 00361	Word mark
8bi*	3141 050 00291	Word mark
8fgh*	Not applicable	Word mark
8j*	3141 050 00281	Word mark
9abcdelm*	3141 054 22011	EHT spacer
9fghi*	4822 532 61201	EHT spacer
10	4822 502 14602	CRT fixing screw
11fgh*	3141 054 22351	Corner coil bracket
11abcdeijklm*	Not applicable	
12abcdilm*	3139 128 23781	Degaussing coil 29"
12e*	4822 157 11551	Degaussing coil 29"
12fgh*	3139 128 23821	Degaussing coil 34"
12jk*	3104 308 20581	Degaussing coil 34"
13abei*	9322 173 75682	Picture tube A68QCP893X001
13cd*	9322 196 06682	Picture tube A68QDL281X062
13jf*	9301 927 10542	Picture tube A80ERF042X14

13gh*	9301 927 30542	Picture tube A80ERF042X15
13k*	9301 953 10542	Picture tube A80ERF142X14
13lm*	9322 215 00682	Picture tube A68QCP693X001
14	Not applicable	
15abcdeijklm*	3139 138 14831	Mains knob
15fgh*	3139 124 30401	Mains knob
16	3139 124 30431	Front interface bracket
17abcdeijklm*	3139 124 30411	Light guide
17fgh*	Not applicable	
18	4822 404 31363	Main cord relief
19	3139 124 33531	Chassis tray
abclm*	3139 128 75211	Mains cord
dh*	3139 128 75291	Mains cord
e*	3139 128 75230	Mains cord
fg*	2422 070 98199	Mains cord
*a	29PT4323/69S/56R	
*b	29PT5307/60	
*c	29PT4323/69R	
*d	29PT4323/71R	
*e	29PT4323/79R	
*f	34PT4323/56R	
*g	34PT4323/69R	
*h	34PT4323/71R	
*i	29PT5307/60S	
*j	34PT3224/93R	
*k	34PT3225/93	
*l	29PT4325/69	
*m	29PT4326/69	

STYLING 436



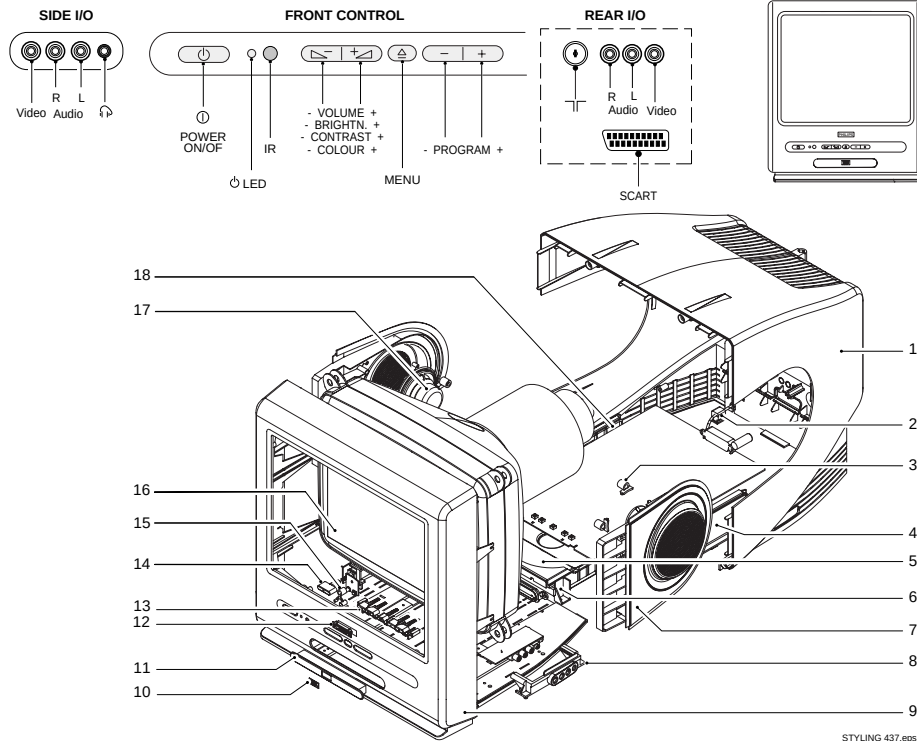
BOTTOM I/O



STYLING 436.eps
291003

1	9965 000 16423	Shielding cover
2	9965 000 16420	Rear cover
3	9965 000 16421	Cover rear A/V
4	9965 000 16516	Stand
5	9965 000 16426	Shield for inverter
6	9965 000 16425	Inverter for LC151X01-A3 panel
6	9965 000 17796	Inverter for LC151X01-C3P1 panel
7	9965 000 16424	Front control panel
8	9965 000 16419	Mains knob
9	9965 000 16417	Control knob assy
10	9965 000 16411	Loudspeaker
11	9965 000 16410	LC151X01-A3
11	9965 000 16743	LC151X01-C3P1
12	9965 000 14327	Mains cord
13	9965 000 16428	Adapter

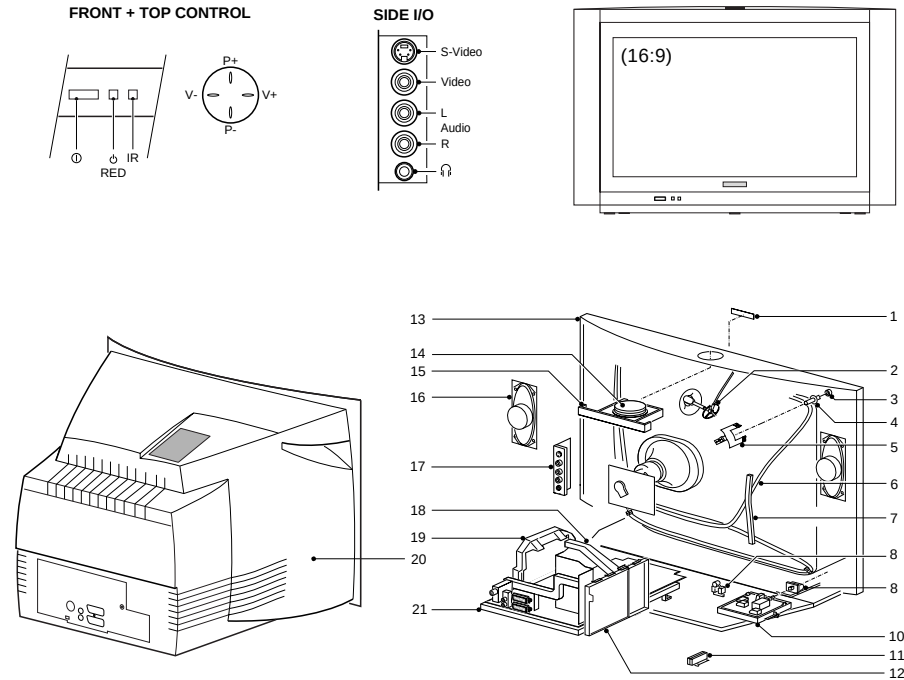
STYLING 437



1	9051 101 51000	Rear cover
2	0054 150 20240	Mains cord relief
3	9051 120 07090	Holder for loudspeaker small
4	9051 100 02820	Chassis holder left
5	8411 400 15100	DVD loader
6	3990 000 02111	DVD mechanism
7	9051 020 07100	Holder for loudspeaker large
8	9051 130 08050	AV holder
9	9051 001 52000	Cabinet
10	0134 660 64370	Philips emblem DVD
11	9051 010 07230	DVD cover
12	0134 660 64360	Philips emblem
13	0051 170 00230	Knob assy
14	9051 082 02880	Mains knob
15	0050 150 23300	LED guide
16	0703 621 13001	Picture tube A36AKJ13X16
17	6103 081 70001	Loudspeaker
18	9051 100 02810	Chassis holder right

STYLING 437.eps
291003

STYLING 439



1b*	3111 250 00811	Word mark 32"
1	4822 454 13455	Word mark 28"
1cd*	3141 050 00291	Word mark 28"
2	3111 254 23481	Coil & THT clamp
3	Not applicable	
4bd*	4822 502 14602	CRT fixing screw 32"
4a*	4822 505 11195	CRT fixing screw 28"
5	4822 403 70906	Fix degaussing coil
5b*	4822 404 31289	Fix degaussing coil 32"
6	2422 549 44244	Degaussing coil 32"
6b*	4822 403 70906	Degaussing coil 28"
6c*	2422 549 44621	Degaussing coil 28"
7	4822 404 31341	Coil clamp
7c*	4822 403 70906	Coil clamp
8	3139 124 33811	Light guide
9	3139 124 33801	Mains knob cover
9	3139 124 33011	Mains knob shaft
10	3139 124 32521	Front interface bracket
10d*	3139 124 30434	Front interface bracket
11ab*	4822 466 11453	Mains cord relief
11c*	4822 401 11795	Mains cord relief
12	3104 304 23041	DAF bracket
13b*	3111 257 59981	Cabinet 32"
13	3111 257 59991	Cabinet 28"
13c*	3143 027 61131	Cabinet 28"
13d*	3143 027 61121	Cabinet 32"
14	3139 137 66921	Top control button
15	3139 124 33941	Top control bracket
16b*	2422 257 20547	Loudspeaker 8Ω 15W

16	3139 128 76202	Loudspeaker 8Ω 10W
16cd*	3139 128 76581	Loudspeaker 8Ω 15W
17	3139 124 31651	Side I/O bracket
17d*	3139 124 31652	Side I/O bracket
18	3104 304 23011	LOT bracket
19ab*	3139 124 46742	SSB bracket
20b*	3111 257 56681	Rear cover 32"
20	3111 257 56671	Rear cover 28"
20c*	3139 124 32101	Rear cover 28"
21	3104 304 23001	LSP bracket
21d*	3104 304 23005	LSP bracket
	9301 899 90301	Picture tube 28"
b*	9301 880 70301	W66ERF042X044 Picture tube 32"
c*	2422 500 80063	W76ERF042X044 Picture tube 28"
d*	9301 921 90314	W66ERF072X044 Picture tube 32"
	4822 321 11499	W76ERF072X044 Mains cord
	4822 321 11139	Mains cord
	3128 147 15231	Remote control RC19042011/01
a*	28PW8609	
b*	32PW8609	
c*	28PW8609/12S	
d*	32PW8609/12S	

Styling 439.eps
301003

CONNECTORS BOTTOM

DC In FM ANT Audio In Video In Comp. Video Input AV1 In

TOP CONTROL

VOLUME PROGRAM

20" 4:3

18

17

16

15

14

13

12

11

10

9

8

1

2

3

4

5

6

7

Red IR

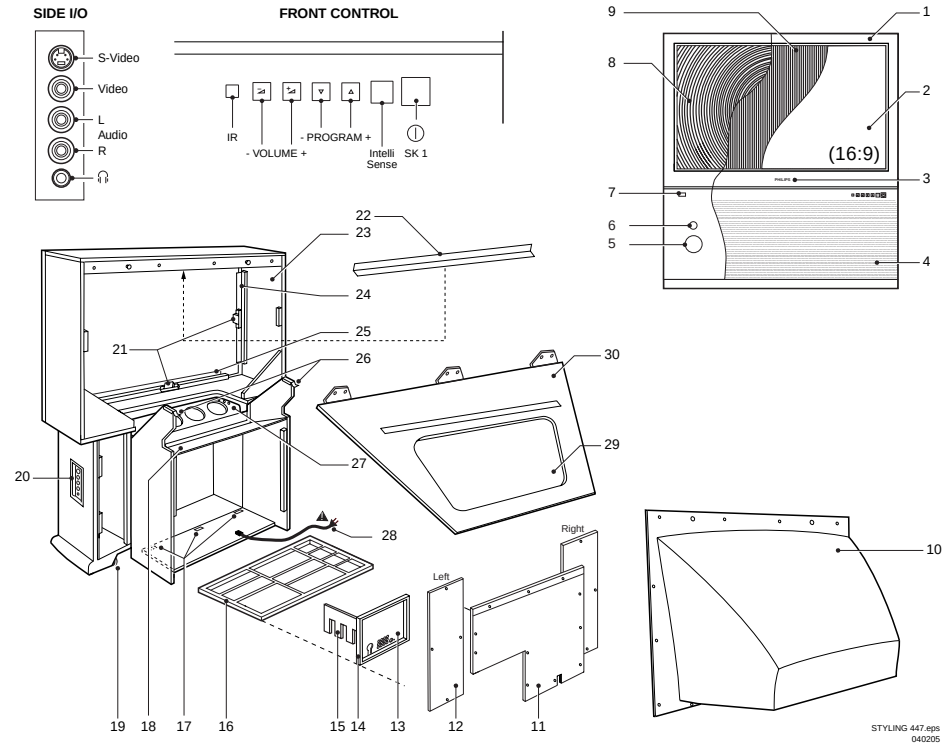
Styling 4466 A92

Styling 446.eps
050404

This image shows a full page of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. In the bottom right corner, there is small black text that reads "E_06532_012.eps" and "131004".

E_06532_012.eps
131004

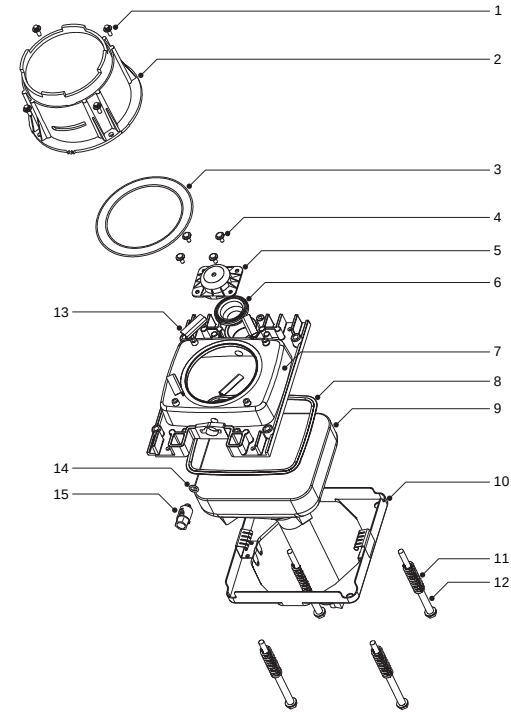
STYLING 447a



1ac*	3135 037 72641	Screen frame	15	3135 034 10061	PIP frame
1b*	3135 037 72931	Screen frame			
1d*	3135 037 75451	Screen frame	16	3135 034 01991	Frame chassis
1eg*	3135 037 72631	Screen frame	17	3135 011 02011	Hold down bracket
1f*	3135 037 72921	Screen frame	18	3135 033 01031	Barrier 46"
			18	3135 033 01041	Barrier 55"
			19	3135 030 40031	Castor
1h*	3135 037 52791	Screen frame			
2	3135 034 01321	Protection screen 46"	20	3135 037 70971	Side jack assy
2	3135 034 00922	Protection screen 55"	21	3135 038 70081	Solar cell assy
3	3141 050 00151	Word mark	23	3135 037 52632	Cabinet 46"
4	3135 037 52452	Cover front 46"	23	3135 037 52623	Cabinet 55"
			24	3138 034 03341	Retainer screen vertical 46"
4d*	3135 037 53871	Cover front 46"			
4	3135 037 72611	Cover front 55"	24	3138 034 03311	Retainer screen vertical 55"
4h*	3135 037 53891	Cover front 55"	24d*	3138 034 04111	Retainer screen vertical 46"
5	2422 264 00452	Loudspeaker tweeter	24d*	3138 034 04091	Retainer screen vertical 55"
6	2422 264 00453	Loudspeaker woofer	25	3135 034 03331	Retainer screen horizontal 46"
			25d*	3135 034 04121	Retainer screen horizontal 46"
7	3135 037 52491	Vacation button			
8	3135 033 20181	Fresnel lens 46"	25	3135 034 03291	Retainer screen hor. top 55"
8	3135 033 20201	Fresnel lens 55"	25	3135 034 03291	Retainer screen hor. bottom 55"
9	3135 033 20061	Lenticular lens 46"			
9	3135 033 20081	Lenticular lens 55"	25h*	3135 034 04081	Retainer screen horizontal 55"
10	3135 037 72051	Rear cover 46"	26	3135 034 03181	Mirror bracket lower
10	3135 037 70991	Rear cover 55"	27	3135 034 00891	Light barrier
11	3135 033 00321	Cover middle			
12	3135 033 00961	Speaker cover L+R 46"	28	2422 070 98165	Mains cord Korea
12	3135 033 00951	Speaker cover L+R 55"	28	2422 070 98163	Mains cord EUR
			28	2422 070 98264	Mains cord AUS/NZ
13	3135 030 00273	Label rear jack	28	2422 070 98154	Mains cord CH
13cg*	3135 030 00302	Label rear jack	29	3135 034 90051	Mirror 46"
13dh*	3135 030 00332	Label rear jack	29	3135 034 90061	Mirror 55"
14	3135 034 02542	Frame rear jack			

STYLING 447a.eps
040205

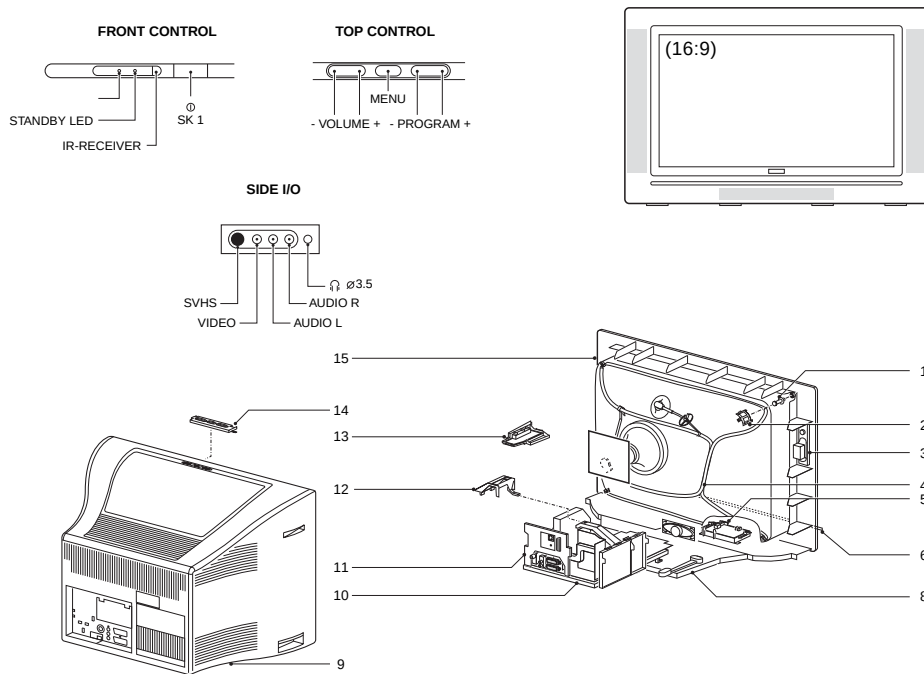
STYLING 447b



Styling 447a (continued)			8	4822 532 13123	Seal CRT
30	3135 033 00461	Mirror board 46"			
30	3135 033 00351	Mirror board 55"	9	9322 173 22682	Picture tube P16LTG00RFA
	3135 147 13991	RC2049/01B	9	9322 173 21682	Picture tube P16LTG00HHA
	3135 147 14011	RC2060/01B	9	9322 173 23682	Picture tube P16LTG00BMB
	9322 173 22682	P16LTG00RFA	10	3135 011 02371	Bracket CRT
			11	4822 492 11733	Spring
	9322 173 21682	P16LTG00HHA			
	9322 173 23682	P16LTG00BMB	12	3135 010 08101	Screw
	9322 202 91682	P16LXL00RFA	13	3135 014 02811	CRT pad
	9322 202 92682	P16LXL00HHA	14	4822 530 10519	O-ring
	9322 202 93682	P16LXL00BMB	15	4835 432 17791	Plug vent
				4822 310 67032	Cooling fluid
*a	46PP9527/69, 46PP9527/93				
*b	46PP9527/79				
*c	46PP9527/61				
*d	46PP9541/93				
*e	55PP9527/69, 55PP8620/93				
*f	55PP8620/79				
*g	55PP9527/61				
*h	55PP9541/93				
Styling 447b					
1	3135 010 02971	Screw (lens to coupler)			
2	3135 034 00731	Lens C-element green			
2	3135 034 00721	Lens C-element red-blue			
3	3135 013 02632	Seal lens			
4	3135 010 02981	Screw			
5	3135 014 02681	Cap coupler			
6	4822 418 10413	Expansion diaphragm			
7	3135 011 04271	Coupler red-blue			
7	3135 031 60021	Coupler green			

STYLING 447b.eps
040205

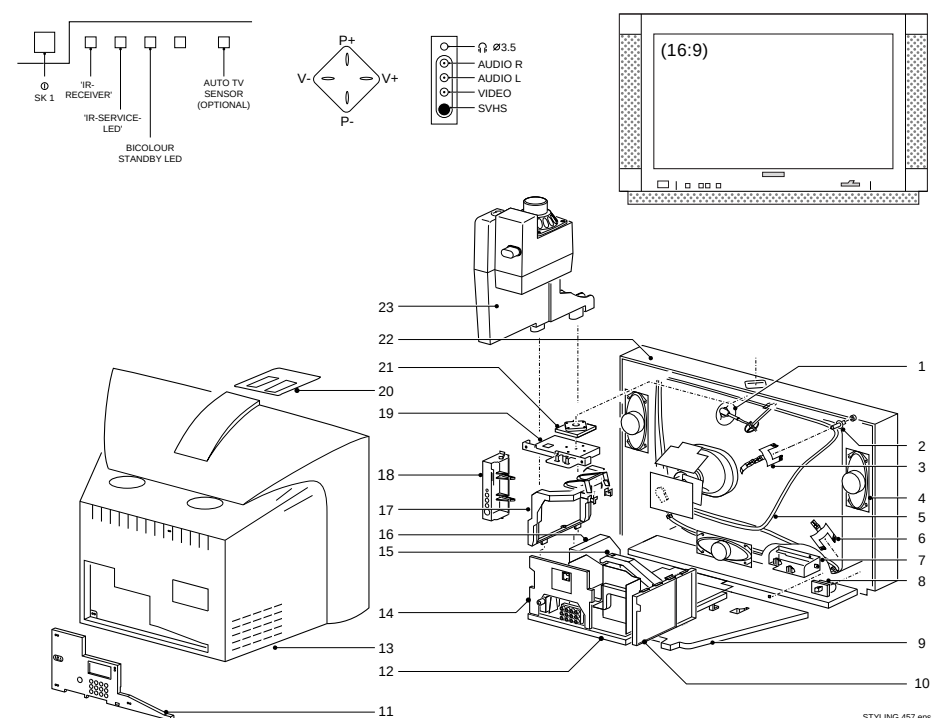
STYLING 456



STYLING 456.eps
040205

1	4822 505 11195	CRT screw 28"	-	3104 301 24191	Shielding frame SSB A-side
1	4822 502 14602	CRT screw 32"	-	3104 301 24201	Shielding frame SSB Z-side
2	3111 254 23481	Coil & THT clamp	-		
2	4822 404 31341	Coil clamp	-	3104 301 24211	Shielding SSB A-side
3	3104 308 78721	Loudspeaker 10Ω 12W	-	3104 301 24221	Shielding SSB Z-side
4	2422 549 44621	Degaussing coil 28"	-	3104 304 21031	Rotation coil 32"
4	2422 549 44244	Degaussing coil 32"	-	3104 304 25712	Corner coil bracket short 28" + 32"
5a*	3139 177 75621	Mains knob	-	3104 304 25722	Corner coil bracket Long 32"
5b*	3104 308 11041	Mains Knob	-	3104 304 21091	Corner coil bracket 32"
6a*	3139 177 79051	Strip right 28"	-	3104 304 25712	Corner coil bracket short 28"
6a*	3139 177 77701	Strip right 32"	-	3111 250 01041	Word mark 28"
6b*	3104 308 10951	Strip right 28"	-	3111 250 01051	Word mark 32"
6b*	3104 308 10891	Strip right 32"	-	9301 899 90301	Picture tube 28"
9a*	3139 177 79041	Strip left + lens 28"	-		W66ERF042x044
9a*	3139 177 77711	Strip left + lens 32"	-	9301 967 10306	Picture tube 28"
9b*	3104 308 11201	Strip left + lens 28"	-		W66ERF172x044
9b*	3104 308 11201	Strip left + lens 32"	-	9301 924 90314	Picture tube 32"
7	Not applicable		-		W76ERF062x044
8	3104 304 23471	Mains bracket	-	9322 173 93682	Picture tube 32" W76EKW10x73
9a*	3104 308 12451	Rear cover 28"	-	4822 321 11425	Mains cord EU
9a*	3104 308 12461	Rear cover 32"	-	4622 007 51622	Mains cord UK
9b*	3104 308 11231	Rear cover 28"	-	4822 402 11183	Mains cord relief
9b*	3104 308 11221	Rear cover 32"	a*	3139 238 07921	Remote control
10	3104 304 23001	Bracket for LSP (Chassis frame)	b*	3128 147 14411	Remote control
11	3104 304 21314	Cover plate SCART	*a	xxPW9309/xx	
12	3104 304 24891	LOT support bracket	*b	xpxw9509/xx	
13	3104 328 30551	Side I/O			
14	3104 328 30571	Top control			
15a*	3104 328 33011	Cabinet 28" incl. bottom plate			
15b*	3104 328 27771	Cabinet 28"			
15a*	3104 328 33021	Cabinet 32" incl. bottom plate			
15b*	3104 328 27731	Cabinet 32"			
-	3104 304 24151	SSB bracket top			
-	3104 304 24901	SSB bracket bottom			
-	3104 304 23041	DAF Bracket			

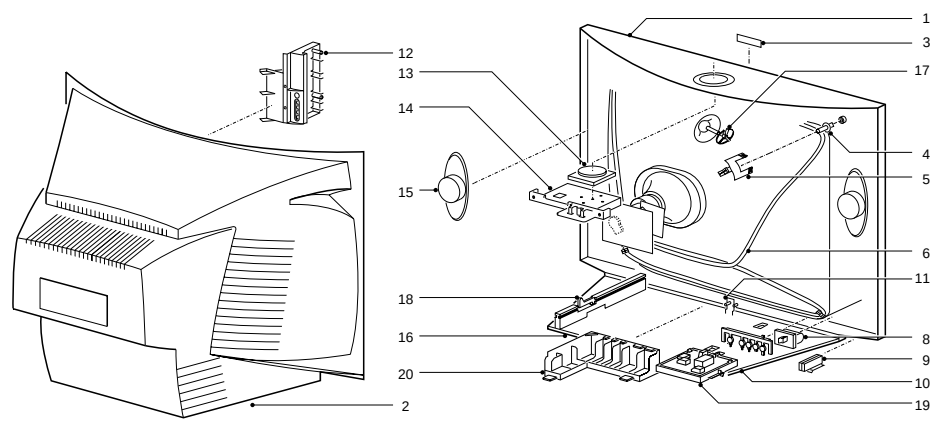
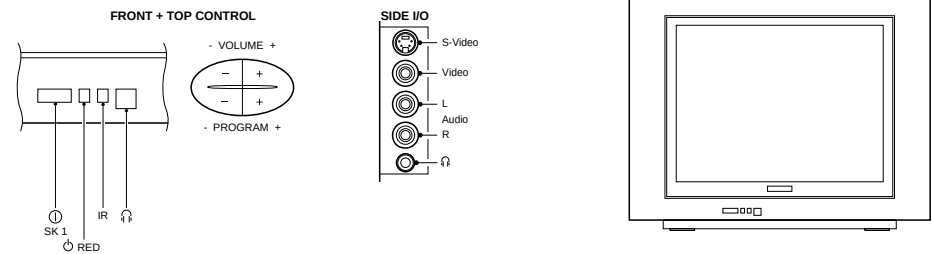
STYLING 457



STYLING 457.eps
040804

1	4822 532 61201	EHT spacer
2	4822 502 21359	CRT fixing screw
3	3141 054 22351	Cable tie
4	3104 130 01231	Loudspeaker 8Ω 15W
5	3139 128 23861	Degaussing coil 32"
7	4822 402 11176	Mains unit bracket
8	3139 124 45851	Mains knob
9	3104 304 21275	Bottom plate
12	3141 054 22551	Chassis frame
13	3139 124 44801	Rear cover 32"
14	Not applicable	
18	3141 054 22561	Side AV bracket
19	3141 054 22231	Top control bracket
20	3104 304 21081	VO plate
	3141 050 00281	Word mark
	3139 124 46561	Cabinet 32"
	9301 888 30314	Picture tube W76ERF022X013
	3104 304 20801	Light guide
	32PW4523/79R	

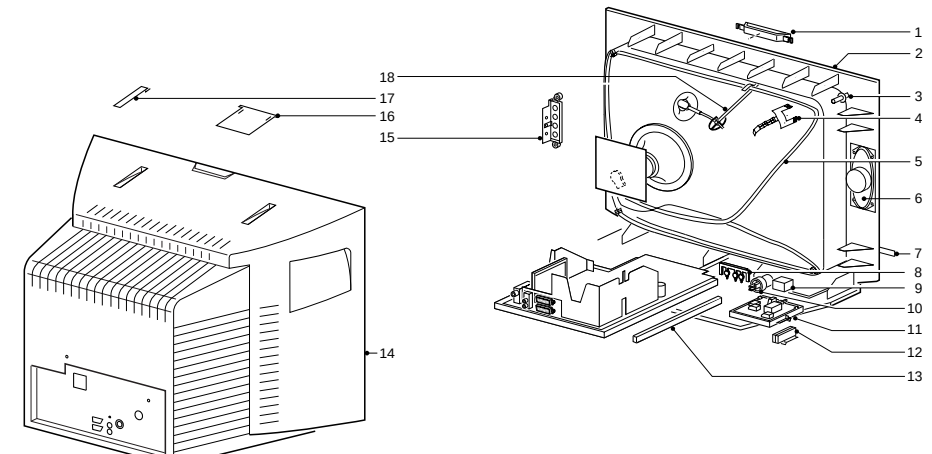
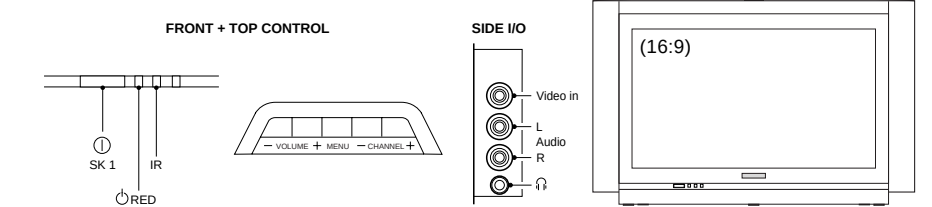
STYLING 459



STYLING 459.eps
040804

1	3141 047 68001	Cabinet
2	3141 057 69551	Rear cover (12AV+SVHS)
3	3141 050 00301	Word mark
4	4822 505 11195	CRT fixing screw
5	3139 124 17541	Cable tie
6	4822 157 11444	Degaussing coil
7	Not applicable	
8	3141 057 64591	Mains knob
10	3139 124 33341	V0 plate
11	3139 124 32221	Light guide
12	3141 054 22541	Side AV bracket
13	3139 124 31131	Top control cover
14	3139 124 30381	Top control bracket
15	2422 264 00409	Loudspeaker 8Ω 10W
16	Not applicable	
17	3139 124 17541	EHT spacer
	3131 228 86482	Remote control
	3139 124 30811	Chassis guide (VO)
	9322 196 08682	Picture tube A51LSK955X01
	21PT5207/60	

STYLING 460

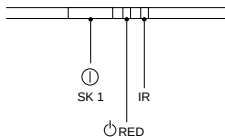


STYLING 460.eps
040804

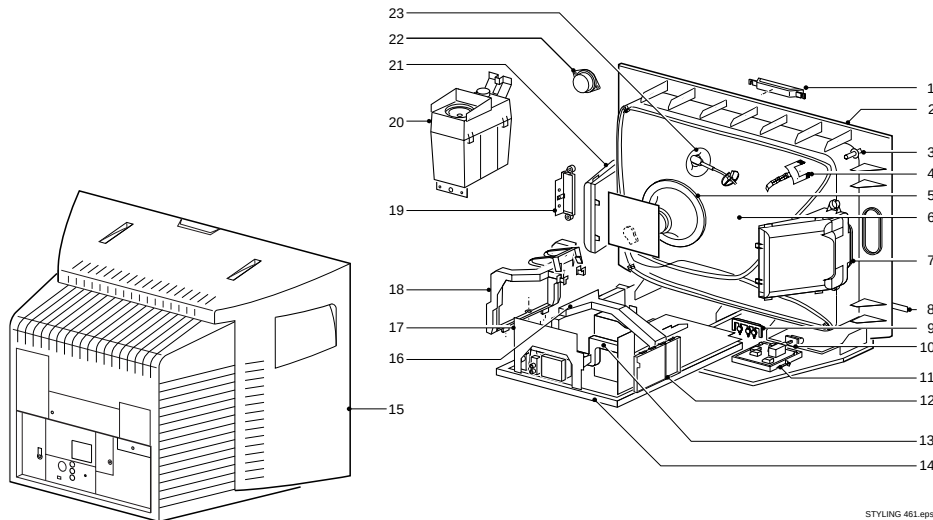
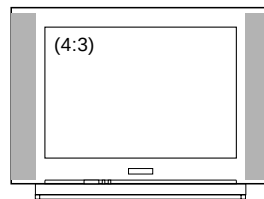
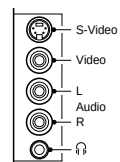
1	3139 187 29861	Top control assy
2	3111 257 60171	Cabinet
3		CRT fixing screw
4	4822 403 70906	Corner coil bracket
5	2422 549 44621	Degaussing coil
6		Speaker assy
7	3111 250 01041	Word mark Philips
8	Not applicable	
9	3139 124 39211	Light guide
10	3139 177 74141	Mains knob
11	3139 124 32521	Front interface bracket
12		Mains cord relief
13	Not applicable	
14	3139 124 42081	Rear cover (no DVD) 28"
15	3139 124 37661	Side AV bracket
16	Not applicable	
17	3139 124 45351	Screw cap
18	3111 254 23481	EHT spacer coil & THT clamp
	4822 321 11499	Mains cord EU
	4822 321 11493	Mains cord UK
18b*	3139 187 28341	Mains cord EU
	9301 888 10301	Picture tube 28" W66ERF022X013
*a	28PW8719/12	
*b	28PW8719/05	

STYLING 461

FRONT + TOP CONTROL



SIDE I/O



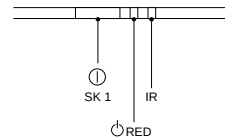
STYLING 461.eps
040804

1	3139 187 29861	Top control assy	22	Not applicable	
2	3111 257 60191	Cabinet	21	Not applicable	
3	Not applicable		23	3104 311 03272	EHT cable
4	3104 308 20381	Degaussing coil 29"			Focus cable (black)
5	Not applicable				Focus cable (red)
6	4822 121 20708	Picture tube W66ESF012X14		3139 238 07441	Remote control
8	4822 459 11154	74822 240 20338 Loudspeaker			
9	4822 466 70798	Plastic plate, indication Philips 12mm			
10	4822 321 11499	Light guide			
		Mains knob			
11	3139 124 32521	Front interface bracket			
12	3104 304 23041	DAF & DC shift bracket			
13	Not applicable				
14	3104 304 23001	LSP Chassis frame			
15	3139 124 41121	Rear cover 29"			
16	3139 124 46742	SSB bracket A02			
17	3139 177 76931	Cover plate			
18	3104 304 23011	LOT bracket EMGS			
19	3139 124 31651	Side IO bracket			
20	Not applicable				

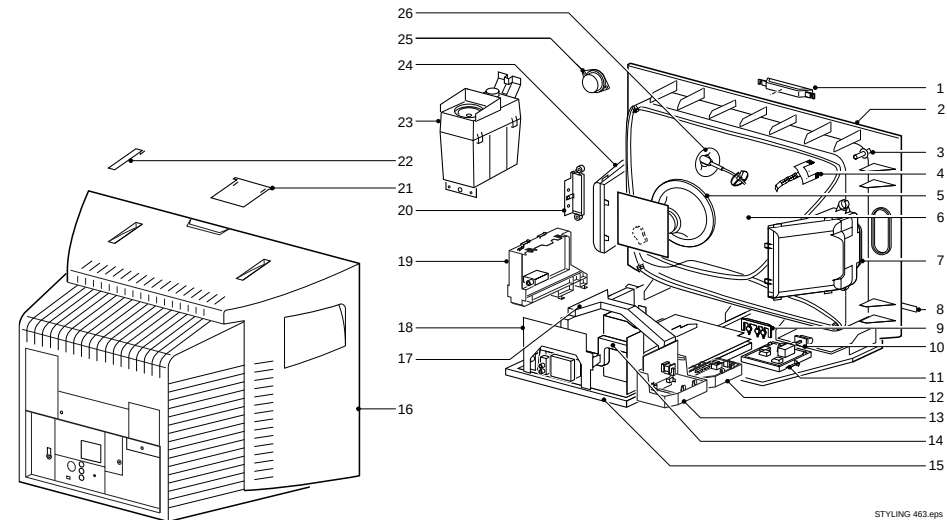
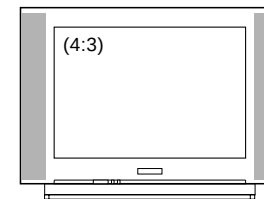
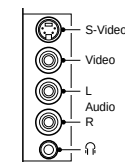
*29PT8609/12

STYLING 463

FRONT + TOP CONTROL



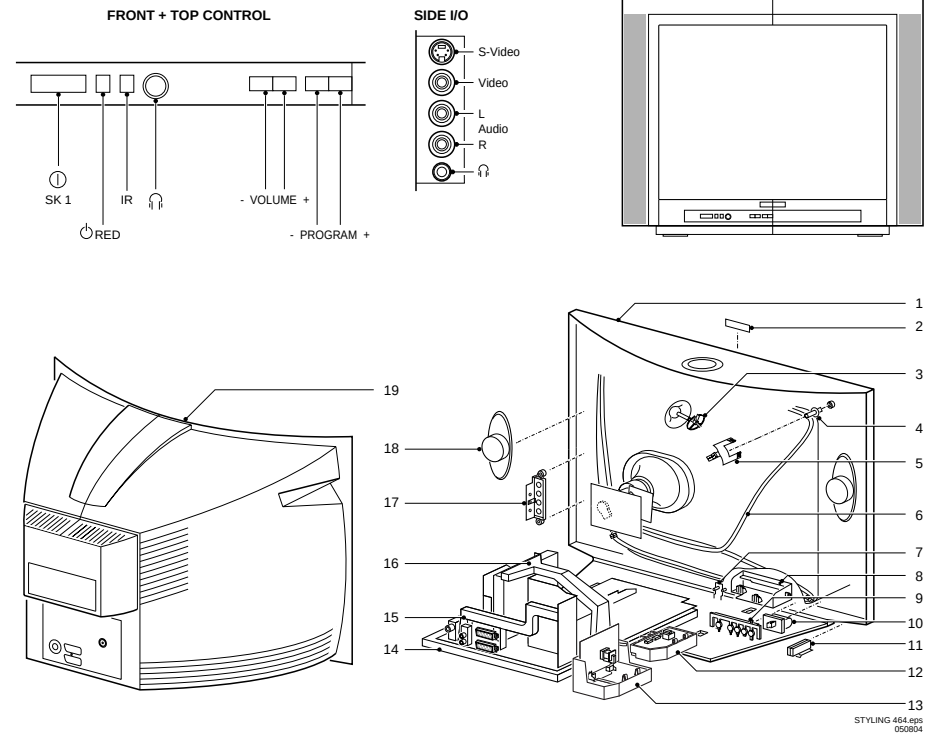
SIDE I/O



STYLING 463.eps
040804

1	3139 188 69231	Top control assy	3104 304 14414	Bracket for Degaussing coil 32"
2	3111 257 60151	Cabinet assy 32"	3104 304 14713	Bracket for Degaussing coil 32"
3	3111 250 40031	CRT screw	2422 549 44621	Degaussing coil
4	3111 254 23481	Coil & tht clamp	3104 304 14414	Corner coil bracket
5	Not applicable		3104 304 23041	Bracket for DAF EMGS
6	9301 921 90314	Picture tube W76ERF072X044	3104 304 14765	Mains cord bracket
7	3104 308 78531	Loudspeaker 8Ω 18W	4822 404 31291	Mains cord
8	Not applicable		3139 124 40421	Screw cap for A02 32WSEF
9	3139 187 29871	Front interface		
10	3139 177 55091	Mains knob		
			32PW8719/05	
11	3139 124 32521	Front interface bracket		
12	Not applicable			
13	Not applicable			
14	Not applicable			
15	3104 304 23001	LSP chassis frame		
16	3111 257 60161	Rear cover 32"		
17	3139 124 46742	SSB bracket		
18	Not applicable			
19	Not applicable			
20	3139 124 31651	Side IO bracket		
21	3139 124 39161	Top VO plate		
22	3139 124 40422	Screw cap		
23	Not applicable			
24	3104 308 78531	Loudspeaker 8Ω 18W		
25	Not applicable			
26	Not applicable			
	3139 238 07441	Remote control		
	3141 050 00291	Word mark		

STYLING 464

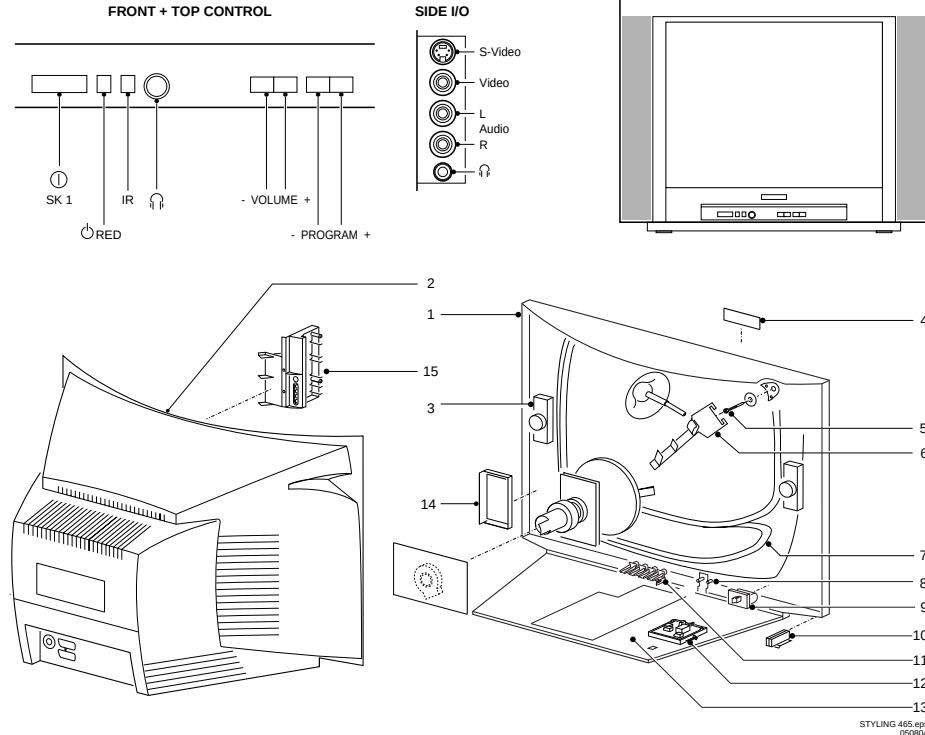


1	3111 257 60141	Cabinet 28"
1b*	313117784151	Cabinet 28"
2	3141 050 00291	Word mark PHILIPS
3	3111 254 23481	Coil & THT clamp
4	4822 505 11195	CRT fixing screw
5	4822 403 70906	Degaussing coil bracket
6	2422 549 44251	Degaussing coil 28"
7	3139 124 42791	Light guide
8	Not applicable	
9	3139 177 63973	Control knobs
10	3139 177 63981	Mains knob
12	Not applicable	
11	4822 404 31291	Bracket for mains cord
13	Not applicable	
14	3104 304 23005	LSP bracket
15	3104 304 23011	LOT support bracket
16	3139 124 46742SSB	SSB bracket
17		Side i/o bracket
18	2422 264 00472	Loudspeaker
19	3139 124 45881	Rear cover 28"
19b*	3139 177 73511	Rear cover 28"
	3128 147 15231	Remote control
	3139 188 69242	Front control
	4622 009 50501	Mains cord EU
	9301 863 10314	Picture tube

*a	28PT7159/12
*b	28PT7109/12
*c	28PT7129/12
*d	28PT7139/12

STYLING 464.695
050804

STYLING 465



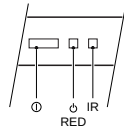
1	3139 177 65981	Cabinet
2	3139 124 32062	Rear cover
3	2422 264 00409	Loudspeaker 8Ω 5W
4	3141 050 00291	Word mark
5	3104 308 77012	CRT fixing screw
6	3104 304 25712	Corner Bracket tool
7	2442 549 44579	Degaussing coil
8	3139 124 33811	Light guide
9	3139 177 66471	Mains knob
10	Not applicable	
11	3139 177 66481	Control knob
12	Not applicable	
13	3139 124 33811	Chassis tray
14	Not applicable	
15	3139 124 37661	Side AV bracket
	3139 137 22801	Mains cord
	9322 205 17682	Picture tube A68ELA021X201

* 29PT5407/21

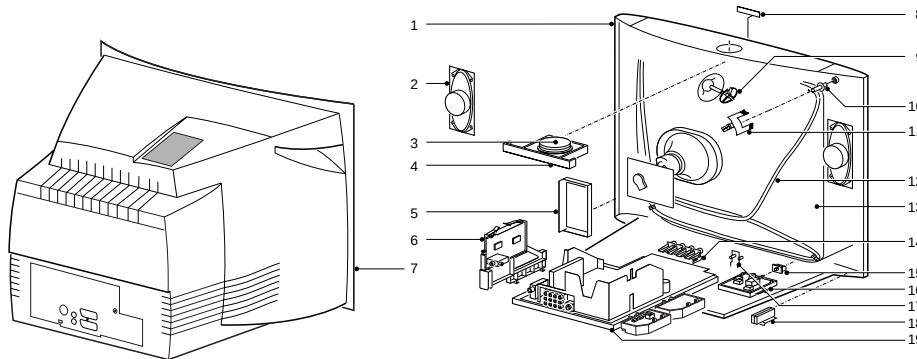
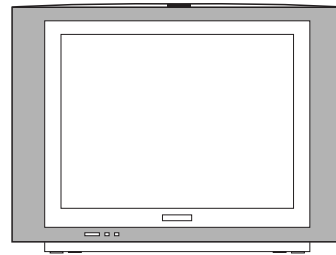
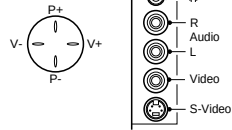
STYLING 465.695
050804

STYLING 469

FRONT + TOP CONTROL



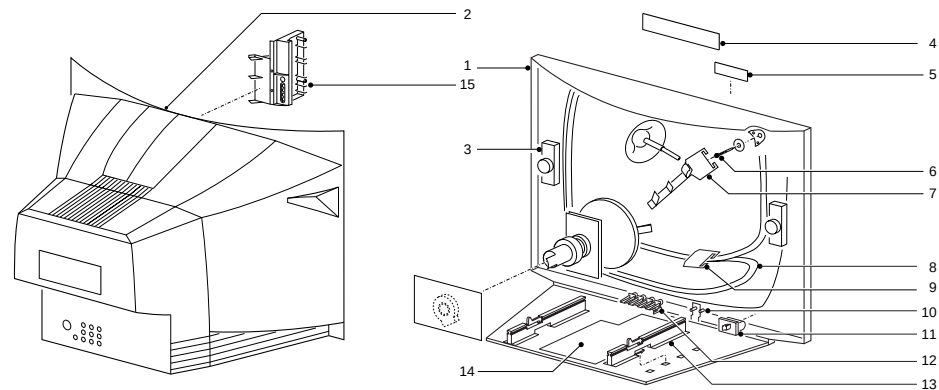
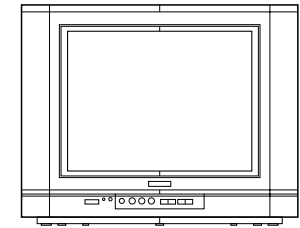
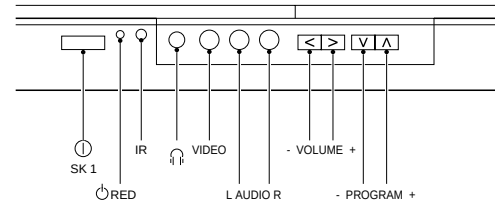
SIDE I/O



STYLING 469.eps
040804

1abdi*	3141 047 80301	Cabinet 29"	13bde*	9301 962 60542	Picture tube 29"
1c*	3141 047 60031	Cabinet			A68QCU770X73(Q)
1	3141 047 69581	Cabinet 21"	13c*	9322 173 75682	Picture tube 29"
1h*	3141 047 74791	Front cabinet 29"			A68QCP893X001
1j*	3141 047 82971	Front cabinet 29"	13f*	9322 202 29682	Picture tube 21"
					A51AKL13X10N
2abdeij*	2422 264 00482	Loudspeaker 16Ω 10W	13g*	9322 202 27682	Picture tube 21" A51AKL13X10
2c*	2422 264 00379	Loudspeaker 8Ω 10W	14	Not applicable	
2	2422 264 00479	Loudspeaker 16Ω 5W (21")	15	3139 138 14831	Mains knob 29"
2h*	2422 264 00484	Loudspeaker 8Ω 15W	15	3141 057 69591	Mains knob 21"
3	3139 137 66921	Top control button	15h*	3139 177 69551	Mains knob 29"
3	Not applicable	(21")			
4	3139 124 30381	Top control bracket	16	3139 124 30434	Front interface bracket
4	Not applicable	(21")	16	Not applicable	(21")
5abde*	3139 124 60491	Side AV bracket (3P+HP+SV)	17	3139 124 30411	Light guide 29"
5c*	3139 124 39541	Side AV bracket (HP+3AV)	17	3139 124 47501	Light guide 21"
			18	3122 224 04623	Mains cord relief
5	3139 124 49861	Side AV bracket (2P+HP) (21")	18	Not applicable	(21")
5h*	3139 124 48601	Side AV bracket (3P+HP+SV) (29")	19	3139 124 33531	Chassis tray
			19	Not applicable	(21")
6	Not applicable		a*	2422 070 98238	Mains cord UK
7abde*	3139 177 81191	Rear cover 29"	bd*	2422 070 98199	Mains cord EU
7c*	3141 047 65241	Rear cover 29"			
7	3141 057 80981	Rear cover 21" (4AV)	c*	3139 128 76091	Mains cord EU
8	3141 050 00291	Word mark 29"	e*	2422 070 00013	Mains cord EU
8	3139 120 01601	Word mark 21"	fg*	2422 070 98234	Mains cord 21"
8h*	3139 120 01671	Word mark 29"			
9	3139 124 17541	EHT spacer	a*	29PT3224/56R	
			b*	29PT3224/69S	
10	Not applicable		c*	29PT5307/60S	
11	3141 054 22351	Corner coil bracket	d*	29PT3224/67R	
11	Not applicable	(21")	e*	29PT3224/71R	
12	3139 128 23781	Degaussing coil 29"	f*	21PT2324/71R, /69R, /69S, /67S	
		(multi voltage)	g*	21PT2324/56S	
12	3139 128 23201	Degaussing coil 21"	h*	29PT4324/93R	
		(multi voltage)	i*	29PT3224/93R	
			j*	29PT3225/93	
12hij*	3139 128 23381	Degaussing coil 29"			
13ahij*	9301 946 60542	Picture tube 29"			
		A68QCU770X73(N)			

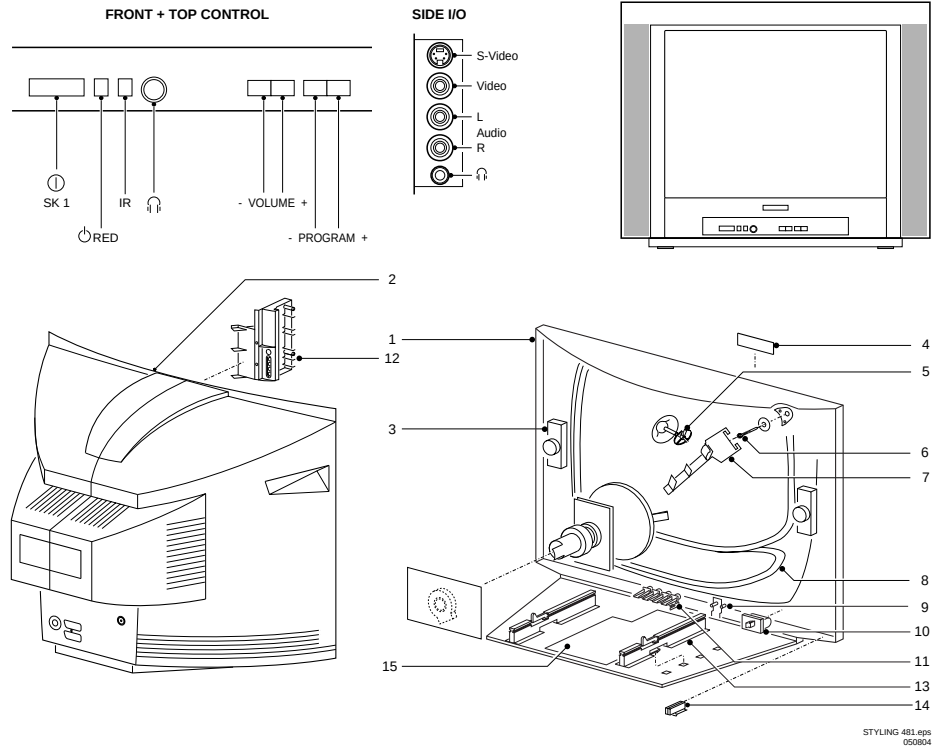
STYLING 475



STYLING 475.eps
040804

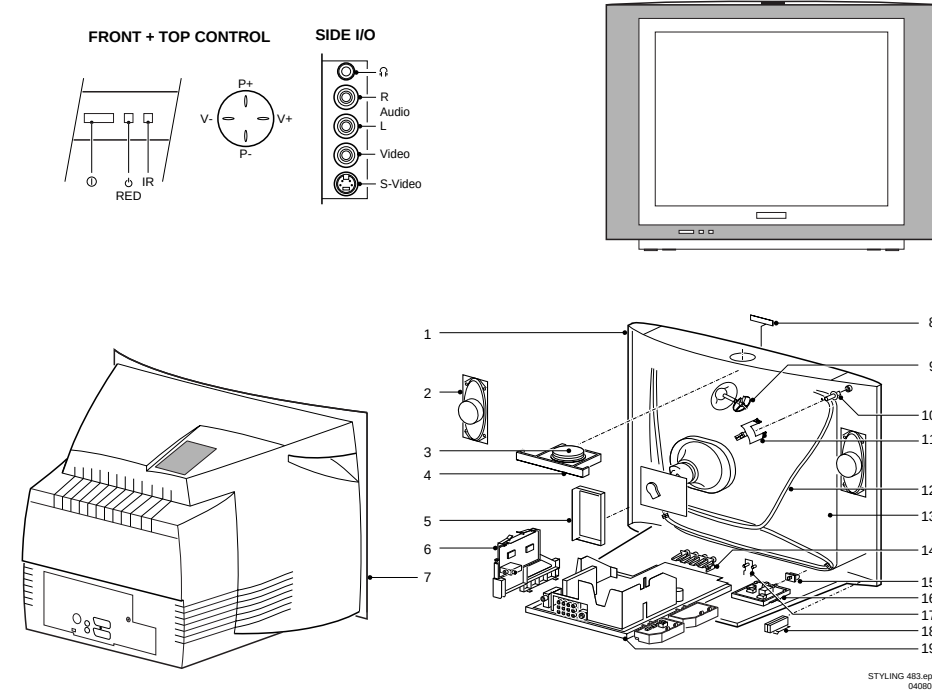
1	3139 177 64551	Cabinet (HP+3AV)
2	3141 057 68421	Rear cover
3	2422 264 00419	Loudspeaker 16Ω 5W
4	3139 177 64541	Door
5	3139 120 01451	Word mark
6	4822 502 14508	CRT fixing screw
7	3141 054 22351	Corner coil bracket
8	3139 128 76331	Degaussing coil 14"
9	Not applicable	
10	3139 124 34321	Light guide
11	3139 177 64481	Mains knob
12	3139 177 64491	Control knob
13	3139 124 34091	Chassis guide (VO)
14	Not applicable	
15	Not applicable	
	9322 191 16682	Picture tube A36AKJ15X07
	14PT6441/37	
	14RFL150/37C	

STYLING 481



1	3141 057 68831	Cabinet
2	3141 054 22941	Rear cover
3	2422 264 00411	Loudspeaker 16Ω 5W
4	3139 120 01371	Word mark
5	3139 124 23861	EHT spacer
6	4822 502 14508	CRT fixing screw
7	3141 054 22351	Corner coil bracket
8	3141 058 20131	Degaussing coil 20"
9	3139 124 34401	Light guide
10	3139 177 58441	Mains knob
11	3139 177 58431	Control knob
12	Not applicable	
13	3139 124 30811	Chassis guide (VO)
14	Not applicable	
15	Not applicable	
	9322 202 00682	Picture tube A51KQK99X02
	20PT5441/37	

STYLING 483

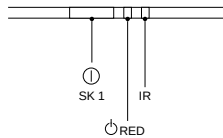


1	3141 047 68701	Cabinet
2	2422 264 00479	Loudspeaker 16Ω 5W
3	Not applicable	
4	Not applicable	
5	3141 054 22881	Side AV bracket (HP+3AV)
6	Not applicable	
7	3141 058 82511	Rear cover
8	3139 120 01601	Word mark
9	3139 124 17541	EHT spacer
10	3139 120 41141	CRT fixing screw
11	3141 054 22351	Corner coil bracket
12	3139 128 23841	Degaussing coil 21"
13	9301 903 81329	Picture tube A51ERF135X82
14	3141 057 68721	Control knob
15	3141 057 68711	Mains knob
16	Not applicable	
17	3139 124 47501	Light guide
18	Not applicable	Mains cord relief
19	3139 124 25893	Chassis guide (VO)
	3139 124 25893	Chassis guide (VO)
	3141 057 81012	Lens

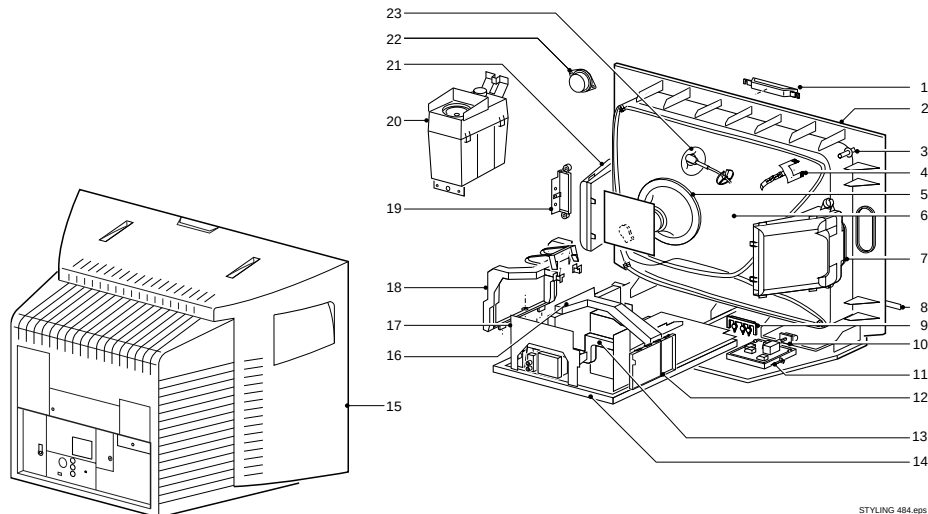
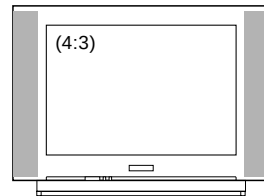
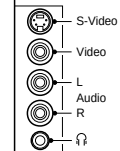
*20PT6341/37

STYLING 484

FRONT + TOP CONTROL



SIDE I/O

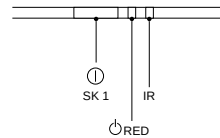


STYLING 484.eps
040804

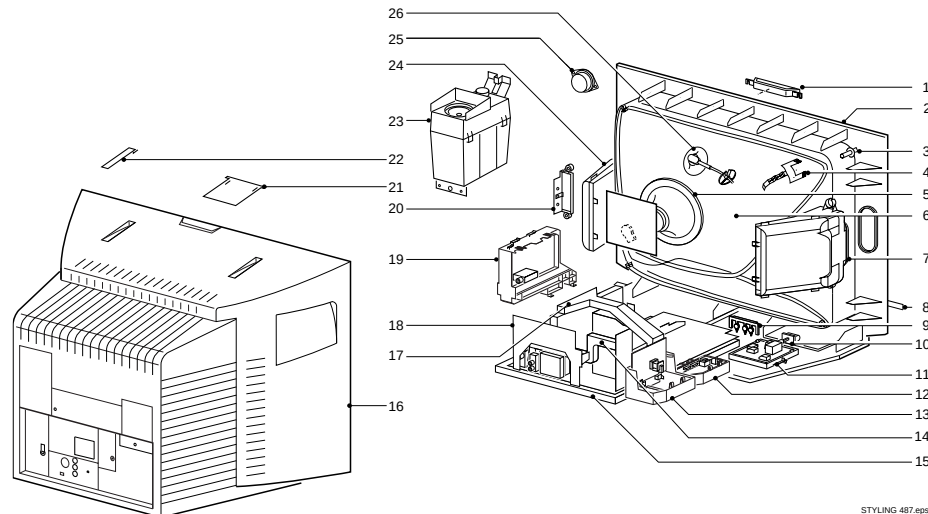
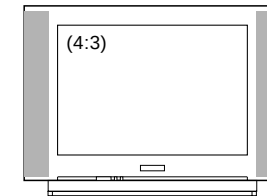
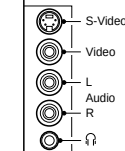
1	3139 177 56381	Top control	19b*	3139 124 48531	Side AV bracket (3P+HP)
1b*	Not applicable		20	Not applicable	
2	3141 047 69941	Cabinet	21	Not applicable	
2b*	3141 047 81311	Cabinet	22	Not applicable	
3	Not applicable		23	3139 124 17541	EHT spacer
4	3141 054 22351	Corner coil bracket	23b*	Not applicable	
4b*	Not applicable				
5	Not applicable			3139 128 23841	Degaussing coil 21"
6	9301 903 81329	Picture tube A51ERF135X82		3139 228 86464	Remote control RC19335004/01
6b*	9301 903 43301	Picture tube A51ERF135X80			
7	2422 264 00411	Loudspeaker 16Ω 5W	*a	20PT6441/37	
7b*	2422 264 00479	Loudspeaker 16Ω 5W	*b	21PT6341/44	
8	3139 120 01371	Word mark			
8b*	3139 120 01601	Word mark			
9	3139 124 41421	Light guide			
9b*	3139 124 47501	Light guide			
10	3141 057 80861	Mains knob			
10b*	3141 057 81301	Mains knob			
11	Not applicable				
12	Not applicable				
13	Not applicable				
14	3141 054 23251	Chassis guide (VO)			
14b*	4822 463 11226	Chassis guide (VO)			
15	3141 057 80891	Rear cover			
15b*	3141 057 81271	Rear cover (9AV+SVHS)			
16	Not applicable				
17	Not applicable				
18	Not applicable				
19	3139 124 37061	Side AV bracket (HP+3P)			

STYLING 487

FRONT + TOP CONTROL



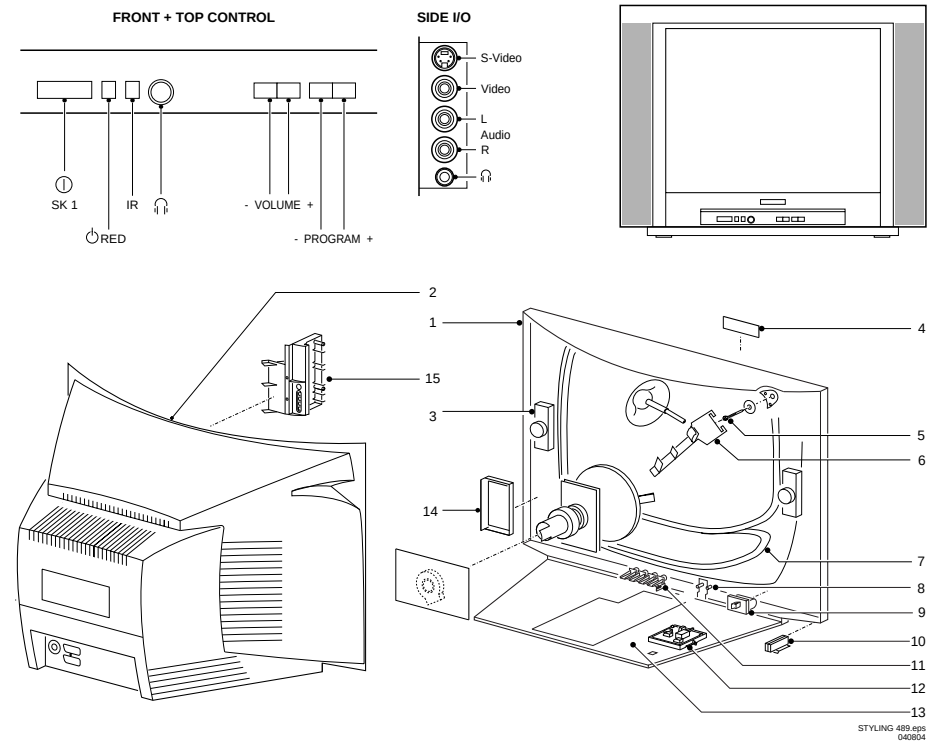
SIDE I/O



STYLING 487.eps
040804

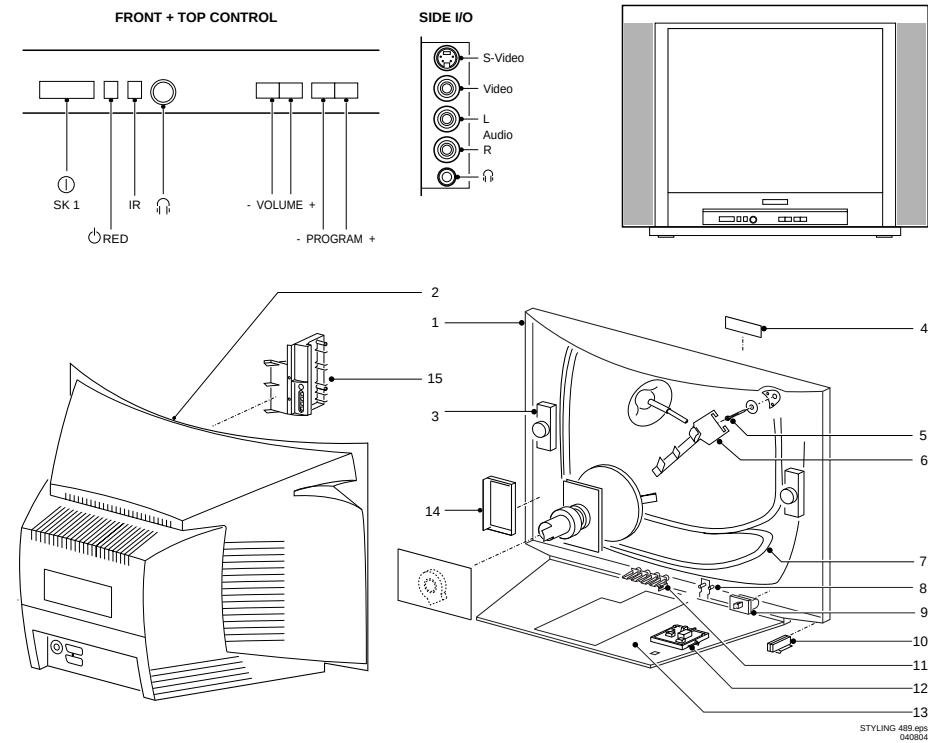
1	3139 188 69231	Top control assy	17bc*	3104 304 23011	LOT bracket
1b*	3139 188 65201	Top control assy	18	Not applicable	
1c*	3139 188 69251	Top control assy	19	Not applicable	
2	3111 257 60541	Cabinet assy 32"	20	3139 124 31651	Bracket for Side I/O panel
2b*	3139 177 76421	Cabinet assy 36"	21a*	3139 124 39161	V0 plate for rear cover
2c*	3139 177 84351	Cabinet assy 36"	22	3139 124 40421	Screw cap for rear cover 29"
3	Not applicable		22bc*	3139 124 40441	Screw cap for rear cover 36"
4	3104 301 14713	Bracket for Degaussing coil	23	Not applicable	
4bc*	3104 304 21092	Bracket for Degaussing coil	24	Not applicable	
5	Not applicable		25	Not applicable	
6	9301 921 90314	Picture tube W76ERF072X044	26	3104 311 03273	EHT cable
6b*	9301 914 50301	Picture tube W86ERF063X144	26b*	3104 311 03721	EHT cable
7	3104 308 78531	Speaker (full range)	27c*	3104 311 03722	EHT cable
8	3141 050 00291	Word mark Philips		2422 549 44244	Degaussing coil
8b*	3111 250 01051	Word mark Philips	b*	2422 549 44243	Degaussing coil
8c*	3104 300 11991	Word mark Philips	c*	2422 549 44242	Degaussing coil
9	3139 124 39211	Light guide			
10	2422 128 02971	Mains knob assy		3104 308 73683	Wire focus cable (black)
10bc*	3139 177 55091	Mains knob assy		3104 308 73672	Wire focus cable (red)
11	Not applicable		ab*	4822 404 31291	Mains cord relief
12	Not applicable		ab*	4622 009 50501	Mains cord
13	3104 304 27641	Bracket for DAF	c*	4622 007 51852	Mains cord
13c*	3104 304 23041	Bracket for DAF		3139 238 07441	Remote control
14	Not applicable		a*	32PW8719/12	
15	3104 304 23005	Bracket for Large Signal panel	b*	36PW8719/12	
16	3111 257 60161	Rear cover	c*	36PW8719/05	
16b*	3129 124 42591	Rear cover			
16c*	3104 328 62011				
17	3104 304 21114	LOT bracket			

STYLING 488



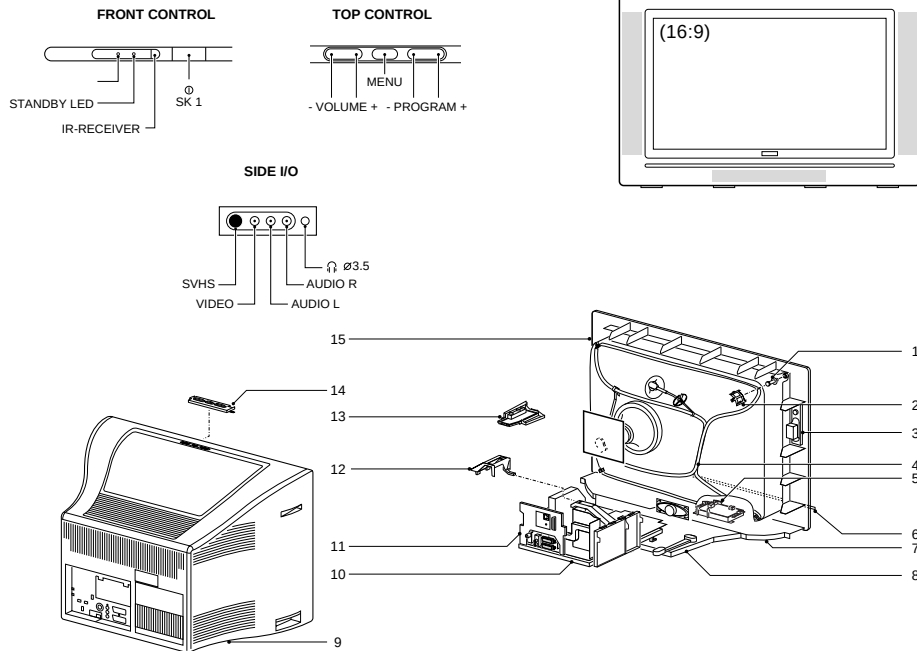
1ac*	3143 027 60573	Cabinet 32"	c*	9301 888 30314	Picture tube 32"
1b*	3139 177 84541	Cabinet 28"			W76ERF022X013
2ac*	3111 257 56681	Rear cover 32"	c*	2422 070 98199	Mains cord
2b*	3139 124 32104	Rear cover 28"		2422 070 98238	Mains cord
3ac*	2422 264 00511	Loudspeaker 16Ω 8W		3139 228 86471	Remote control RC19039001/01
3b*	2422 264 00476	Loudspeaker 16Ω 10W			
4ac*	3141 050 00281	Word mark	a*	32PW6408/01	
4b*	3141 050 00291	Word mark	b*	28PW6408/01	
5ac*	4822 502 14602	CRT fixing screw	c*	32PW6408/05	
5b*	4822 505 11195	CRT fixing screw			
6a*	4822 403 70906	Fix degaussing coil			
7ac*	2422 549 00128	Degaussing coil			
7b*	2422 549 00129	Degaussing coil			
8ac*	3139 124 33811	Light guide			
9	3139 124 33801	Mains knob cover			
9	3139 124 33011	Mains knob shaft			
10	3139 124 32521	Front interface bracket			
11	Not applicable				
12	Not applicable				
13	3139 124 41203	Chassis tray			
13bc*	3139 124 41201	Chassis tray			
14	Not applicable				
15ac*	3139 124 37662	Side I/O bracket			
a*	9301 880 70301	Picture tube 32"			
		W76ERF022X013			
b*	9301 888 10301	Picture tube 28"			
		W66ERF022X013			

STYLING 489



1	3139 177 65982	Front cover			
2	3139 124 32061	Rear cover			
3	2422 264 00476	Loudspeaker 16Ω 10W			
4	3141 050 00291	Word mark			
5	3104 308 77012	CRT fixing screw			
6	Not applicable				
7	2442 549 00132	Degaussing coil			
8	3139 124 33811	Light guide			
9	3139 177 66471	Mains knob			
10	Not applicable				
11	3139 177 66481	Control knob			
12	Not applicable				
13	3139 124 41201	Chassis tray			
14	Not applicable				
15	2422 070 98199	Side io bracket			
	9301 951 90314	Picture tube A68ERF 112X013/M			
	29PT5458/01				

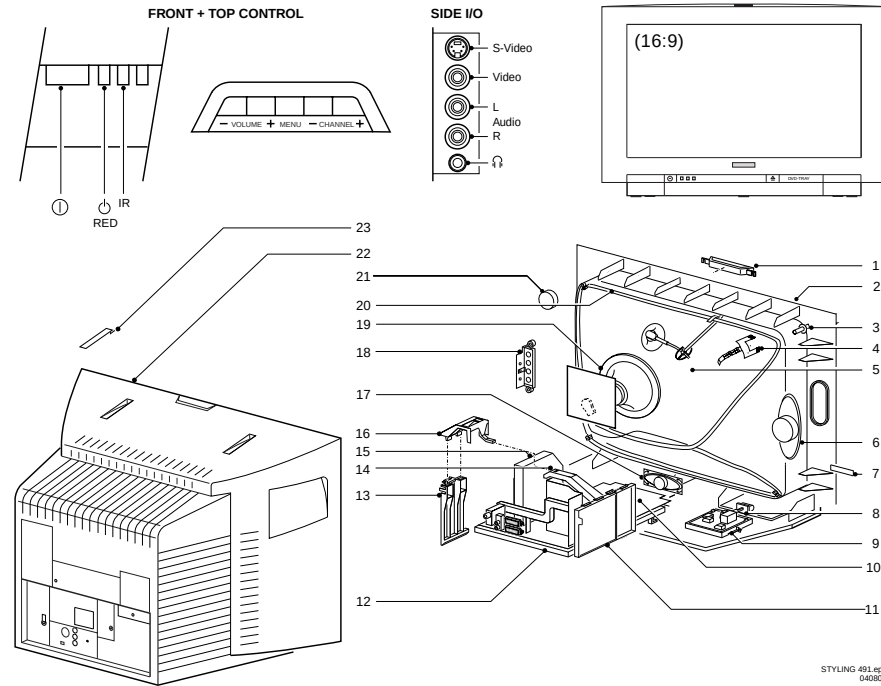
STYLING 490



STYLING 490.eps
290704

1ab*	4822 505 11195	CRT screw	15	3111 257 60501	Cabinet 21"
1c*	4822 502 14602	CRT screw			
2	3111 254 23481	Coil & THT clamp	15b*	3139 124 47711	Cabinet 21"
3ab*	2422 264 00485	Loudspeaker 8Ω 15W	15ci*	3139 127 60842	Cabinet 29"
3cfghijk*	2422 264 00491	Loudspeaker 8Ω 10W	15d*	3143 027 61081	Cabinet 28"
			15egj*	3143 027 60742	Cabinet 28"
			15hk*	3139 127 60752	Cabinet 32"
3de*	2422 264 00508	Loudspeaker 16Ω 10W			
4	2422 549 45514	Degaussing coil 21"		3111 250 01031	Word mark 21"
4ci*	2422 549 00132	Degaussing coil 29"		3111 250 01041	Word mark 28"
4dj*	2422 549 00129	Degaussing coil 28"		3111 250 01051	Word mark 32"
4hk*	2422 549 00128	Degaussing coil 32"		9301 913 40301	Picture tube 21"
					A51ERF135X64
5	3139 177 78701	Mains knob		9301 951 90314	Picture tube 29"
5c*	3139 124 47691	Mains knob			A68ERF112X013/m
5defghijk*	3139 177 75621	Mains knob			
6ck*	3104 304 26111	light guide		9301 934 20307	Picture tube 28"
7	Not applicable				W66ERF112X013
				9301 888 30314	Picture tube
8	3104 304 14765	Mains bracket			32"W66ERF022X013
8de*	3104 304 00129	Mains bracket			
8fghijk*	3104 304 23471	Mains bracket			
9	3111 257 60511	Rear cover 21"	*a	21PT5618/01	
9ci*	3139 127 60851	Rear cover 29"	*b	21PT5618/58	
			*c	29PT5618/58	
9de*	3134 027 61071	Rear cover 28"	*d	28HW6505/01Z	
9fgj*	3143 027 60811	Rear cover 28"	*e	28HW6505/05Z	
9hk*	3139 127 60821	Rear cover 32"	*f	28PW6618/01	
10	Not applicable		*g	28PW6618/05	
11	Not applicable		*h	32PW6618/05	
			*i	29PT5618/01	
12	3139 124 46811	LOT support bracket	*j	28PW6618/58	
13	3139 188 58131	Side I/O	*k	28PW6618/01	
13c*	3139 188 58151	Side I/O	*l	32PW6618/01	
14	3139 177 75631	Top control			

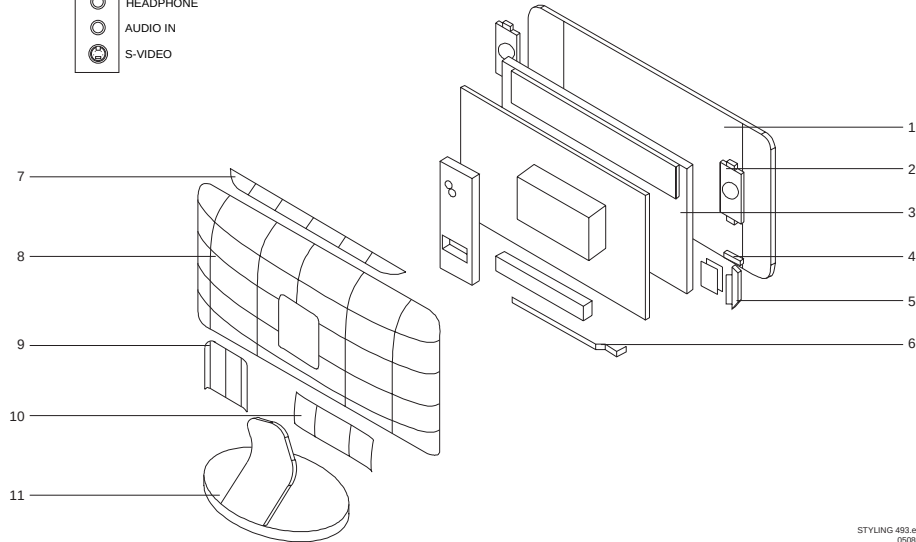
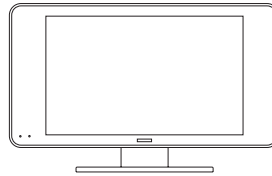
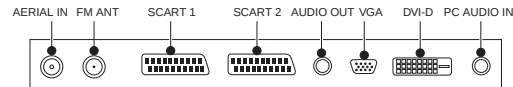
STYLING 491



STYLING 491.eps
640804

1	3139 177 61981	Top control assy	22h*	3111 257 56681	Rear cover assy
1h*	3139 137 66921	Top control assy	22i*	3139 124 42961	Rear cover assy
2	3127 107 60051	Cabinet assy 21"	22jk*	3127 107 50131	Rear cover assy
2efg*	3143 027 60582	Cabinet assy 29"	22lm*	3139 124 61061	Rear cover assy
2h*	3143 027 60573	Cabinet assy 32"	22nopq*	3139 124 42081	Rear cover assy
2it*	3143 027 60592	Cabinet assy 32"	22rs*	3143 027 61221	Rear cover assy
2j*	3193 177 50651	Cabinet assy 24"	22t*	3139 124 42961	Rear cover assy
2k*	3139 177 50661	Cabinet assy 24"	23*	3139 124 40401	Screw cap rear cover
2lm*	3134 027 61161	Cabinet assy 28"	23efg*	3139 124 42231	Screw cap rear cover
2nopq*	3143 027 60562	Cabinet assy 28"	23h*	3139 124 40421	Screw cap rear cover
2rs*	3134 027 61171	Cabinet assy 32"	23irst*	3139 124 40421	Screw cap rear cover
3degijklmnopq*	3104 308 77012	CRT screw	23lmnopq*	3139 124 45351	Screw cap rear cover
3h*	4822 502 14602	CRT screw			
4abcd	3139 124 33472	Bracket fix deg. Coil		2422 070 98199	Mains cord
4efghilpqrst*	4822 403 70906	Bracket fix deg. Coil	diko*	2422 070 98238	Mains cord
4jk*	4822 402 10047	Bracket fix deg. Coil	lr*	4822 321 11425	Mains cord
5	9301 913 40301	Picture tube A51ERF135X64	ms*	4622 007 51622	Mains cord
5efg*	9301 951 90314	Picture tube A68ERF112X013/M		4822 404 31291	Mains cord holder
				3104 304 14765	Mains cord holder
5hirst*	9301 888 30314	Picture tube W76ERF022X013		3139 228 86471	Remote control RC19039001/01
5jk*	9301 886 30301	Picture tube W56ERF001X11		3128 147 78667	Remote control RC19042017/01
5lmnopq*	9301 934 20307	Picture tube W66ERF112X013		3128 147 15761	Remote control RC4332/01
6	2422 264 00485	Loudspeaker (Left/Right)			
6h*	2411 264 00511	Loudspeaker (Left/Right)	*a	21PT5518/01	
6ilmnopqrst*	2422 264 00484	Loudspeaker (Left/Right)	*b	21PT5518/58	
7	3111 250 01001	Word mark	*c	21PT5509/01	
7efgilmnopqrst*	3141 050 00291	Word mark	*d	21PT5518/05	
7h*	3141 050 00281	Word mark	*e	29PT5509/01	
8	3139 177 55091	Mains knob assy	*f	29PT5518/58	
8jk*	3139 177 50661	Mains knob assy	*g	29PT5518/58	
9	3139 124 32521	Front interface bracket	*h	32PW6518/01	
17	Not applicable		*i	32PW6518/05	
18	3139 123 57181	Side I/O assy	*j	24PT5618/01	
18ijklmnopqrst*	3139 188 50491	Side I/O assy	*k	24PW6518/05	
18	3139 124 37662	Side I/O panel bracket	*l	28DW6559/01	
19	Not applicable		*m	28DW6559/05	
20	2422 549 45514	Degaussing coil 21"	*n	28PW6518/01	
20efg*	2422 549 00132	Degaussing coil 29"	*o	28PW6518/05	
20hirst*	2422 549 00128	Degaussing coil 32"	*p	28PW6518/58	
20jk*	2422 549 45778	Degaussing coil 24"	*q	28PW6558/01	
20lmnopq*	2422 549 00129	Degaussing coil 28"	*r	32DW6559/01	
21	Not applicable		*s	32DW6559/05	
22	3127 107 50051	Rear cover assy	*t	32PW6518/58	
22c*	3127 107 50101	Rear cover assy			
22efg*	3139 124 41121	Rear cover assy			

STYLING 493

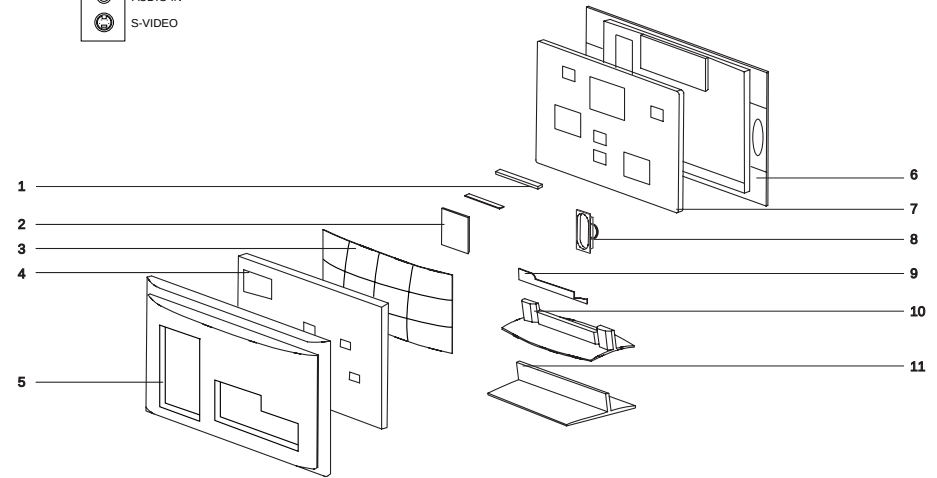
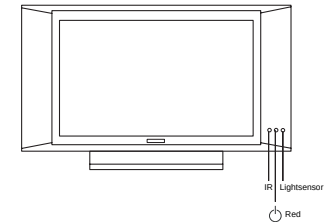
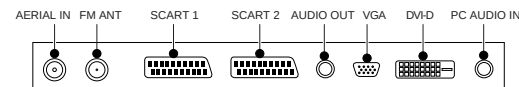


STYLING 493.eps
050804

1ab*	3111 257 60251	Cabinet 23"
1e*	3111 257 60581	Cabinet 23"
1c*	3111 257 60631	Cabinet 26"
1d*	3111 257 60211	Cabinet 17"
1f*	3111 257 60601	Cabinet 26"
1g*	3111 257 60732	Cabinet 23"
1hg*	3111 257 60752	Cabinet 26"
2abefgh*	2422 264 00506	Loudspeaker 8Ω 5W
2d*	2422 264 00507	Loudspeaker 8Ω 5W
3ab*	9322 194 30682	LCD screen LC230W01-A2K2
3abeg*	9322 209 84682	LCD screen LC230W01-A2k8
3cfh*	9322 212 69682	LCD screen LC260W01-A5K6
3d*	9322 196 32682	LCD screen LC171W03-A4
4abg*	3139 124 60061	Lens
4ch*	3139 124 60071	Lens
4d*	3139 124 49011	Lens
4e*	3139 124 61321	Lens
4f*	3139 124 61311	Lens
5abcdf*	3139 188 54481	Side AV
5gh*	3139 188 84661	Side AV
6acefgh*	3139 177 77101	Connector plate
6b*	3139 177 77411	Connector plate
6d*	3139 177 77531	Connector plate
7abeg*	3139 124 48992	Top vent cover
7cfh*	3139 124 49001	Top vent cover 26"
7d*	3139 124 48981	Top vent cover
8ae*	3111 257 60241	Rear cover 23"
8b*	3141 047 80461	Rear cover 23"
8cf*	3111 257 60261	Rear cover 26"

8d*	3111 257 60221	Rear cover 17"
8g*	3111 257 60741	Rear cover 23"
8h*	3111 257 60761	Rear cover 26"
9abeg*	3139 124 48771	User interface cover 23"
9cfh*	3139 124 48761	User interface cover 26"
9d*	3139 124 48781	User interface cover 17"
10abeg*	3139 124 48961	Vesa cover 23"
10cfh*	3139 124 48971	Vesa cover 26"
10d*	3139 124 48951	Vesa cover 17"
11abeg*	3139 128 77021	Metal stand 23"
11cfh*	3139 128 77011	Metal stand 26"
11d*	3139 128 77001	Metal stand 17"
	2422 070 98151	Mains cord EU
	9965 000 07586	Mains cord UK
acdef*	3128 147 15821	Remote control RC1553801/01
b*	3128 147 15901	Remote control RC1553802/01
gh*	3139 238 07951	Remote control RC90331518/01
*a	23PF9946/12	
*b	23PF9946/98	
*c	26PF9946	
*d	17PF9946	
*e	23PF9956	
*f	26PF9956	
*g	23HF9472	
*h	26HF9472	

STYLING 494

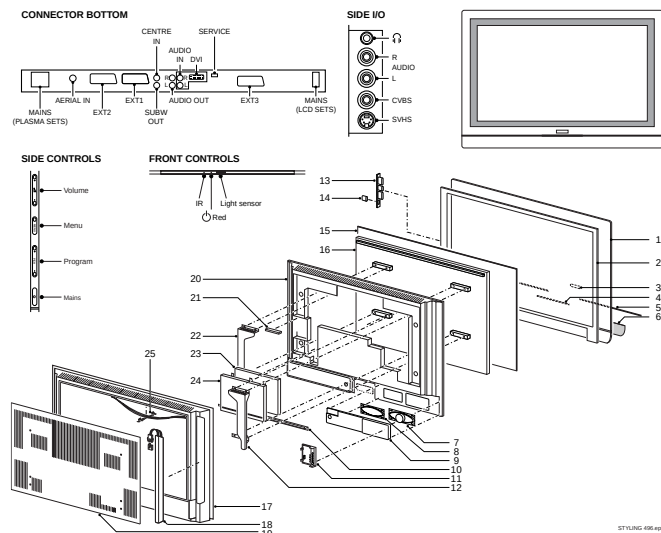


STYLING 494.eps
050804

1abcde*	3139 177 82721	Top control
2a*	3139 121 28221	Vesa plate
2bcde*	3139 121 28051	Vesa plate
3a*	3139 124 61451	Back plate
3bd*	3139 124 60731	Back plate
3ce*	3139 124 60721	Back cover
4	Not applicable	
5a*	3139 177 85481	Rear cover
5b*	3111 257 60441	Rear cover
5c*	3111 257 60461	Rear cover
5d*	3111 257 60452	Rear cover
5e*	3111 257 60472	Rear cover
6a*	3139 177 85491	Front Cabinet pearl white silver 26"
6b*	3111 257 60791	Front cabinet 15"
6c*	3111 257 60421	Front cabinet 20"
6d*	3111 257 60412	Front cabinet 17"
6e*	3111 257 60432	Front cabinet 23"
7a*	9322 212 69682	LCD screen LC260W01-A5K6
7b*	9322 207 48682	LCD screen LC150X02-A4
7c*	9322 211 50682	LCD screen LC201V02-A3K5
7c*	9322 215 40682	LCD screen LC201V02-A3K9
7d*	9322 211 48682	LCD screen LC171W03-A4KC
7e*	9322 214 13682	LCD screen QD23WL05
8a*	2422 264 00506	Loudspeaker 8Ω 5W
8b*	2440 257 30702	Loudspeaker 4Ω 5W
8c*	2422 264 00519	Loudspeaker 8Ω 5W
8d*	2422 264 00526	Loudspeaker 4Ω 5W
8e*	2422 264 00518	Loudspeaker 8Ω 5W

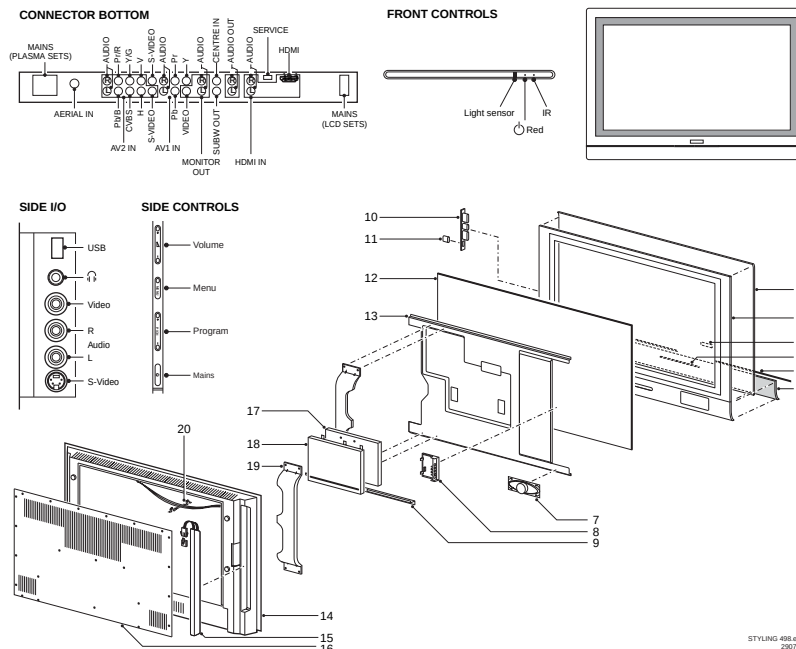
9a*	3139 177 85641	Connector plate
9c*	3139 177 82781	Connector plate
9e*	3139 177 71831	Connector plate
10a*	3139 128 77331	Metal stand
10bd*	3139 128 77051	Metal stand
10ce*	3139 128 76981	Metal stand
11	Not applicable	
ace*	3139 120 01731	Word mark
bd*	3139 120 01651	Word mark
	3139 124 43391	Light guide
	2422 076 00546	Aerial cable
	3128 147 15821	Remote control RC1553801/01
	3139 238 08141	Remote control RC19335019/01
	3128 147 14871	Remote control RC19042008/01
	2422 070 98151	Mains cord EU
	9965 000 07586	Mains cord UK
*a	26PF8946	
*b	15PF8946	
*c	20PF8846	
*d	17PF8946	
*e	23PF8946	

STYLING 496



1	3104 328 30484	Front assy sw 42" (/12, /79, /93, /98)	17	3104 328 32962	Back cover sw 50" (/12, /69, /93)
1bd*	3104 328 30474	Front assy w 42"	17c*	3104 308 12601	Back cover w 50"
1	3104 328 30984	Front assy w 42" (/37)	17	3104 328 32952	Back cover sw 50" (/37)
1e*	3104 328 35595	Front assy w 42" (/37)	17a*	3104 328 33232	Back cover sw 50" (/37)
1	3104 328 30463	Front assy sw 50" (/12, /69, /93)	18	3104 328 35023	Ambient light R 42"
1	3104 328 30453	Front assy w 50" (/37)	18	3104 328 30683	Ambient light L 42"
1a*	3104 328 33461	Front assy w 50"	18	3104 304 27331	Ambient light fake cover 42"
1c*	3104 328 35043	Front assy sw 50"	18	3104 328 33343	Ambient light R 50"
2	3104 308 11502	Midframe assy sw 42" (/12, /79, /93, /98)	18	3104 328 33223	Ambient light L 50"
2	3104 308 11492	Midframe assy w 42" (/37)	18c*	3104 304 27441	Ambient light fake cover sw 50"
2	3104 308 11442	Midframe assy sw 50" (/12, /69, /93)	19	3104 301 24761	Back plate 42"
2	3104 308 11432	Midframe assy w 50" (/37)	19e*	3104 301 25391	Back plate 42"
2a*	3104 308 12631	Word mark PHILIPS	19	3104 301 24872	Back plate 50"
3	3104 300 12381	IR Window sw 42" - 50" (/12, /69, /79, /93, /98)	19a*	3104 301 25201	Back plate 50"
4	3104 304 26791	IR Window w 42" - 50" (/37)	20	3104 328 32453	Chassis frame 42"
4	3104 304 26781	Strip L+R sw 42" (/12, /79, /93, /98)	20	3104 328 32444	Chassis frame 50"
5	3104 304 26801	Grill front sw 42" (/12, /79, /93, /98)	21	3104 308 11971	Isolation block 42"
5	3104 304 26931	Grill front w 42" (/37)	22	3104 308 11951	Fixation bracket L 42"
6	3104 308 11511	Grill front sw 50" (/12, /69, /93)	22	3104 328 32201	Fixation assy L 50"
6	3104 308 11461	Grill front w 50" (/37)	23	3104 308 11942	Bottom shielding
6a*	3104 308 12641	Loudspeaker L/R	24	3104 308 11932	Top shielding
7	2441 257 10002	Loudspeaker L/R pass.	25	3104 304 27671	Ambient light wire bracket
8	2441 257 10003	Loudspeaker box assy 42"	25	3104 308 78791	Glass stand step 42" - 50" (/37)
9	3104 308 12471	Connection bracket 42"	25	3104 308 78701	Wall mount bracket 42" (/12, /79, /93, /98)
10	3104 301 25111	Side I/O	25	3104 301 24731	Wall mount bracket 50" (/12, /69, /93)
11	3104 328 32463	Side I/O	25	3104 301 62851	Wall mount bracket 50" (/12, /69, /93)
11a*	3104 328 33241	Fixation bracket R 42"	25	3104 301 62821	Wall mount bracket 50" (/12, /69, /93)
12	3104 328 32211	Fixation assy R 50"	25	3104 301 62861	Wall mount bracket 50" (/37)
13	3104 328 31645	Mains knob	25	3128 147 16191	Remote control RC4306/01B
14	3104 308 11603	Glass plate 42" (/12)	25	3128 147 16201	Remote control RC4307/01B (/37)
15	3104 304 90491	Glass plate 42" (/37, /79, /93, /98)	25	3128 147 14431	Remote control RC4302/01 (/12, /69, /79, /93, /98)
15	3104 304 90421	Glass plate 50" (/12, /37, /69, /93)	25	2422 070 98223	Mains cord us
16	9322 212 78682	PDP FPF42C128128UC-52 (/12)	25	2422 070 98422	Mains cord eur
16	9965 000 26016	PDP S42AX-XB01 (/37, /79, /93, /98)	25	2422 070 98258	Mains cord uk
16b*d*	9965 000 25997	PDP S42SD-YB03	25	2422 070 00015	Mains cord aus/nz
16	9965 000 26017	PDP S50HW-XB02 (/12, /37, /69, /93)	25	2422 070 00017	Mains cord chn
17	3104 328 32983	Back cover sw 42" (/12, /79, /93, /98)	25	42PF9966/12	
17	3104 328 33173	Back cover w 42" (/37)	25	42PF9966/37	
17e*	3104 328 37943	Back cover w 42" (/37)	25	42PF9966/79	
17b*d*	3104 308 12782	Back cover w 42"	25	42PF9966/93	

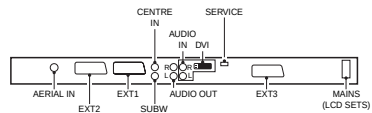
STYLING 498



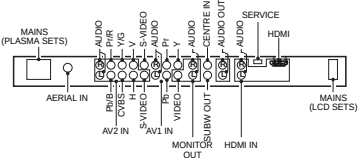
1a*	3104 308 13111	Front assy w 32"	3128 147 16201	Remote control RC4307/01B (/37, /61)
1b*	3104 308 11541	Front assy sw 32"		
1c*	3104 328 36921	Front assy sw 32"		
2a*	3104 308 11551	Midframe assy w 32"	3128 147 14431	Remote control RC4302/01 (/69, /93, /98)
2bc*	3104 308 11561	Midframe assy sw 32"		
3	3104 300 12381	Word mark PHILIPS	c*	3128 147 14411
4a*	3104 304 27291	IR Window w 32"		2422 070 98208
4bc*	3104 304 27301	IR Window sw 32"		2422 070 98259
5bc*	3104 304 27021	Strip L+R sw 32"		2422 070 98251
6a*	3104 308 11571	Grill front w 32"		2422 070 00016
6bc*	3104 308 11581	Grill front w 32"		2422 070 00025
7	2441 257 10003	Loudspeaker L/R		2422 070 98146
8	3104 328 32463	Side I/O	*a	32PF9966/37
9	3104 301 25111	Connection bracket	*b	32PF9966/69
10	3104 328 35723	Side controls		32PF9966/93
11	3104 308 11603	Mains knob		32PF9966/61
12	9322 209 35682	TFT LCD LQ315T3LZ13	*c	32PF9976/12
12	9322 217 44682	TFT LCD LC320W01-A6K1		
13	3104 308 12672	Chassis frame		
14	3104 328 33601	Back cover		
14a*	3104 308 12751	Back cover		
14c*	3104 328 36931	Back cover		
15	3104 328 35013	Ambient light R 32"		
15	3104 328 30693	Ambient light L 32"		
16	3104 301 24932	Back plate 32"		
17	3104 308 11932	Bottom shielding		
18	3104 308 11942	Top shielding		
19	3104 301 24911	Fixation bracket 32"		
20	3104 304 27632	Ambient light wire bracket		
a*	3104 308 78691	Glass stand step 32"		
bc*	3104 308 78681	Upright stand step 32"		
	3104 301 62851	Wall mount bracket 32"		
	3104 301 24731	Wall mount bracket 32"		

STYLING 499

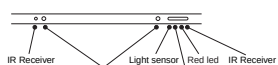
CONNECTOR BOTTOM (EU & AP Version)



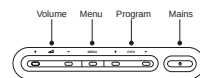
CONNECTOR BOTTOM (USA Version)



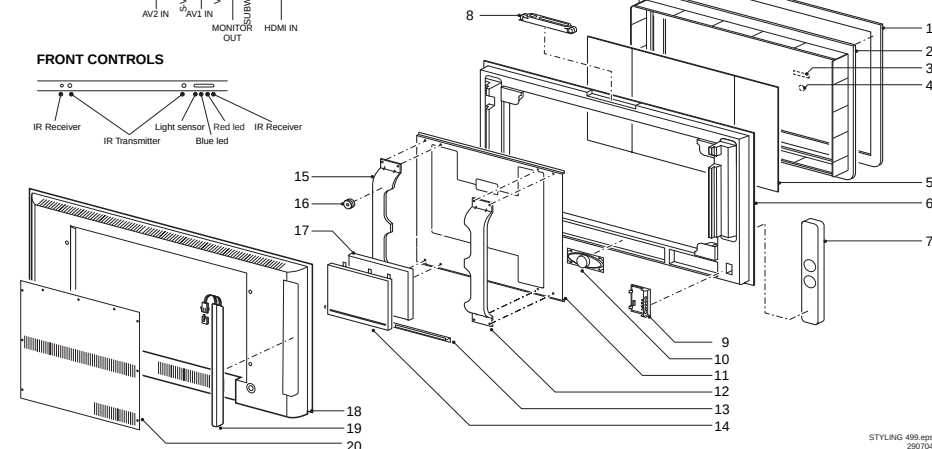
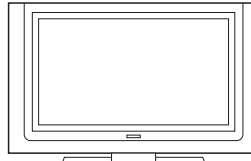
FRONT CONTROLS



TOP CONTROLS



SIDE I/O

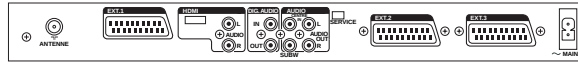


STYLING 499.aps
290704

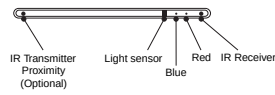
1	3104 308 11751	Inner front assy LCD 32"	18	3104 328 30771	Back cover 37"
1	3104 308 11771	Inner front assy LCD 37"	18	3104 328 30751	Back cover 42"
1	3104 308 11731	Inner front assy LCD 42"	19	3104 328 35013	Ambient light R 32" + 37"
2	3104 308 11761	Outer front assy LCD 32"	19	3104 328 30693	Ambient light L 32" + 37"
2	3104 308 11781	Outer front assy LCD 37"	19	3104 328 35023	Ambient light R 42"
2	3104 308 11741	Outer front assy LCD 42"	19	3104 328 30683	Ambient light L 42"
3	3104 304 26541	Light guide	20	3104 308 11851	Back plate 32"
4	3104 304 27411	Lens Proximity sensor	20	3104 308 11862	Back plate 37"
4	9322 209 35682	TFT LCD screen LQ315T3LZ13	20	3104 308 11841	Back plate 42"
5	9322 206 52682	TFT LCD screen LC370W01-A5	20	3104 308 78651	Glass stand 32"
5	9322 211 11682	TFT LCD screen LC420W02-A4K3		3104 308 78661	Glass stand 37"
6	3104 328 30733	Cabinet 32"		3104 308 78761	Glass stand 42"
6	3104 328 30744	Cabinet 37"		3104 308 78781	Upright stand 32" + 37" + 42"
6	3104 328 30723	Cabinet 42"		3104 301 24731	Wall mount bracket EUR
7	3104 130 02561	Loudspeaker – set 32"		3104 301 62851	Wall mount bracket US
7	3104 130 02571	Loudspeaker – set 37"		3128 147 14431	RC4302/01 remote EUR
7	3104 130 02581	Loudspeaker – set 42"		3128 147 16201	RC4307/01 remote US
8	3104 328 30784	Top control		2422 070 98259	Mains cord EUR
9	3104 328 30792	Side I/O		2422 070 98251	Mains cord UK
10	2441 257 10001	loudspeaker centre		2422 070 98208	Mains cord US
11	3104 308 11892	Chassis frame 32"		XXPF9986/XXX	
11	3104 308 11902	Chassis frame 37"		XXPF9996/XXX	
11	3104 308 11881	Chassis frame 42"			
12	3104 308 13161	Fixation bracket R 32"			
12	3104 308 13171	Fixation bracket R 37"			
12	3104 308 13151	Fixation bracket R 42"			
13	3104 301 25111	Connection bracket 32"			
13	3104 301 24711	Connection bracket 37"			
14	3104 308 11931	top shielding			
15	3104 308 13161	Fixation bracket L 32"			
15	3104 308 13171	Fixation bracket L 37"			
15	3104 308 13151	Fixation bracket L 42"			
16	3104 308 12071	Mushroom			
17	3104 308 11942	Bottom shielding			
18	3104 328 30761	Back cover 32"			

STYLING 500

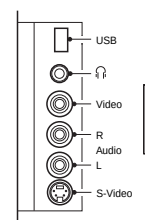
CONNECTOR BOTTOM



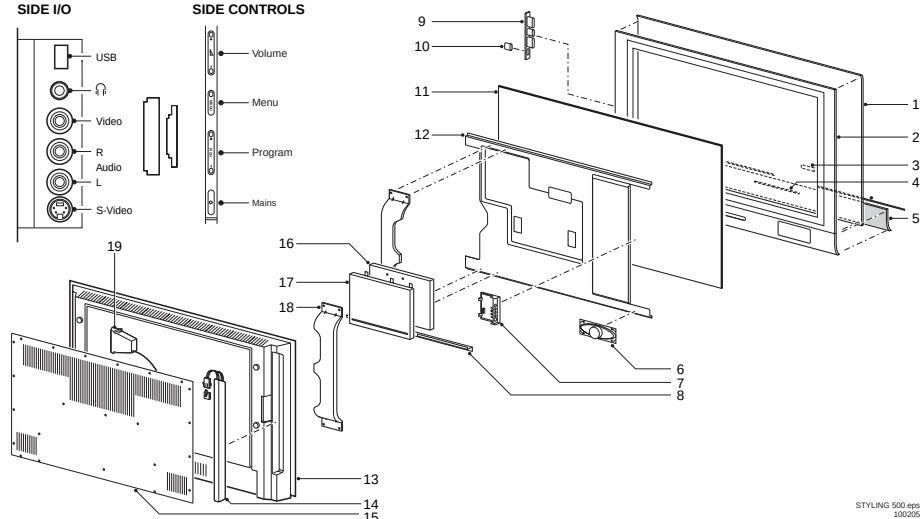
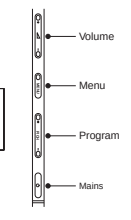
FRONT CONTROLS



SIDE I/O



SIDE CONTROLS



STYLING 500.aps
100205

1	3104 308 11531	0003	Front assy w 32"
2	3104 308 11551	0158	Midframe 32"
3	3104 300 12381	0050	Word mark PHILIPS
4	3104 304 27292	0041	IR window
5	3104 308 11571	0151	Grill assy 32"
6	2441 257 10002	5213	Loudspeaker
7	3104 328 33211	1116	Side I/O assy
8	3104 308 11613	0036	Connecting plate assy
9	3104 328 32471	1114	Side control assy
10	3104 308 11601	0049	Mains knob assy
11	9322 209 35682	1004	LCD display 32"
12	3104 308 12672	0206	Chassis frame 32"
13	3104 328 32991	0010	Back cover assy 32"
14	Not Applicable		
15	3104 301 24931	0156	Metal back plate 32"
16	3104 308 11922	0071	Bottom shielding
17	3104 308 11912	0070	Top shielding
18	3104 301 24912	0164	Fixation bracket
19	3104 328 29911	0150	Card reader assy

32PF9956/12

STYLING 504.ep
25100

REAR CONNECTIONS (EU Version)

The rear panel (EU Version) includes the following connections:

- MAINS:** Mains power input.
- ANTENNA:** Antenna input.
- SERVICE:** Service input.
- EXT 3:** External input 3.
- EXT 1:** External input 1.
- EXT 2:** External input 2.
- AUDIO RECEIVER:** Audio receiver input.
- VGA:** Video Graphics Array input.
- Y/PB/PR:** Y/PB/PR input.
- AUDIO:** Audio input.
- OUT:** Output.
- CINEMA:** Cinema input.
- LINK:** Link input.
- NO:** No input.
- FUNCTION:** Function input.
- IN:** Input.
- CENTRE:** Centre input.

REAR CONNECTIONS (USA Version)

The rear panel (USA Version) includes the following connections:

- MAINS:** Mains power input.
- ANTENNA:** Antenna input.
- SERVICE:** Service input.
- MONITOR:** Monitor input.
- AUDIO RECEIVER:** Audio receiver input.
- VGA:** Video Graphics Array input.
- Y/PB/PR:** Y/PB/PR input.
- AUDIO:** Audio input.
- OUT:** Output.
- CINEMA:** Cinema input.
- LINK:** Link input.
- NO:** No input.
- FUNCTION:** Function input.
- IN:** Input.
- CENTRE:** Centre input.

TOP CONTROL

The top panel includes the following controls:

- (Minus)
- △** (Up Arrow)
- +** (Plus)
- MENU/OK**
- (Minus)
- P/CH** (Page/Channel)
- +** (Plus)

FRONT CONTROL

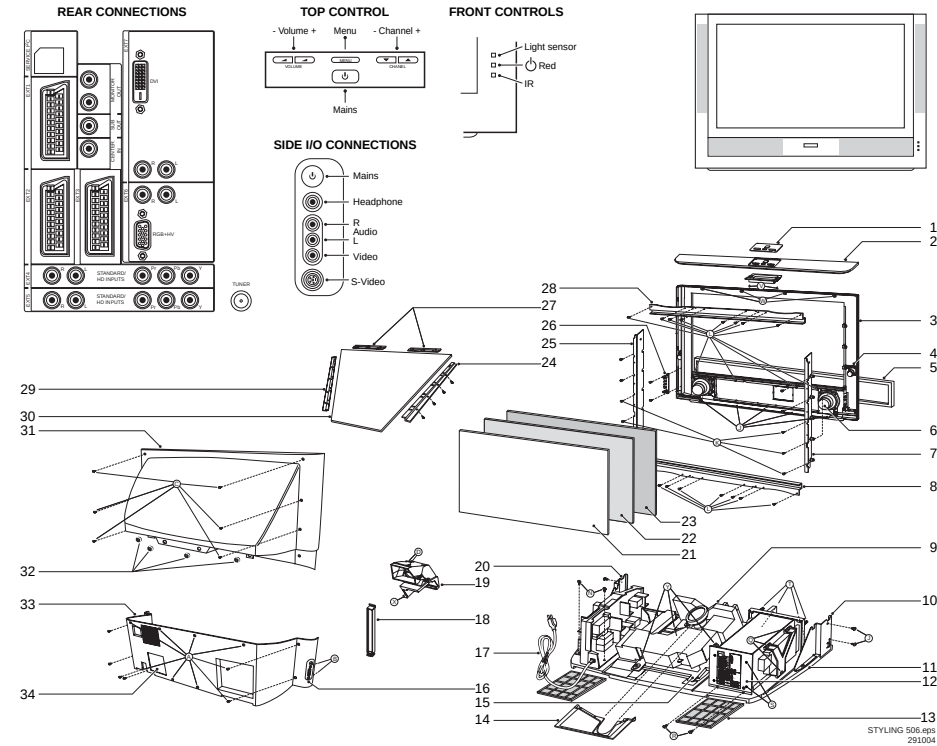
The front panel includes the following controls:

- IR LIGHT SENSOR**
- RED** (Red button)

The diagram also includes a detailed view of the front panel assembly with numbered callouts 9 through 16.

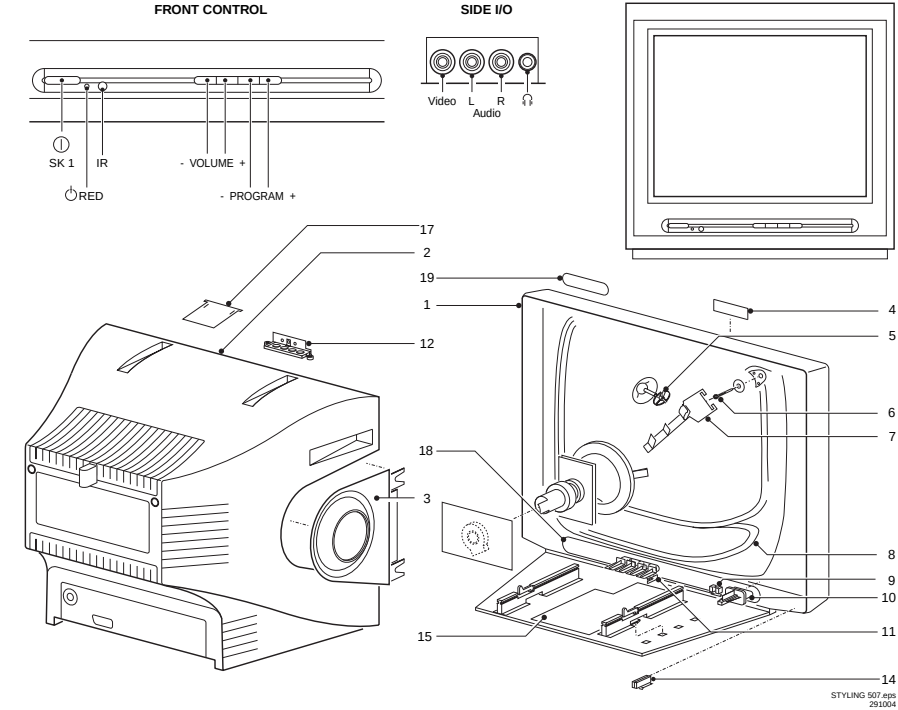
STYLING 505.epz
27100-

STYLING 506



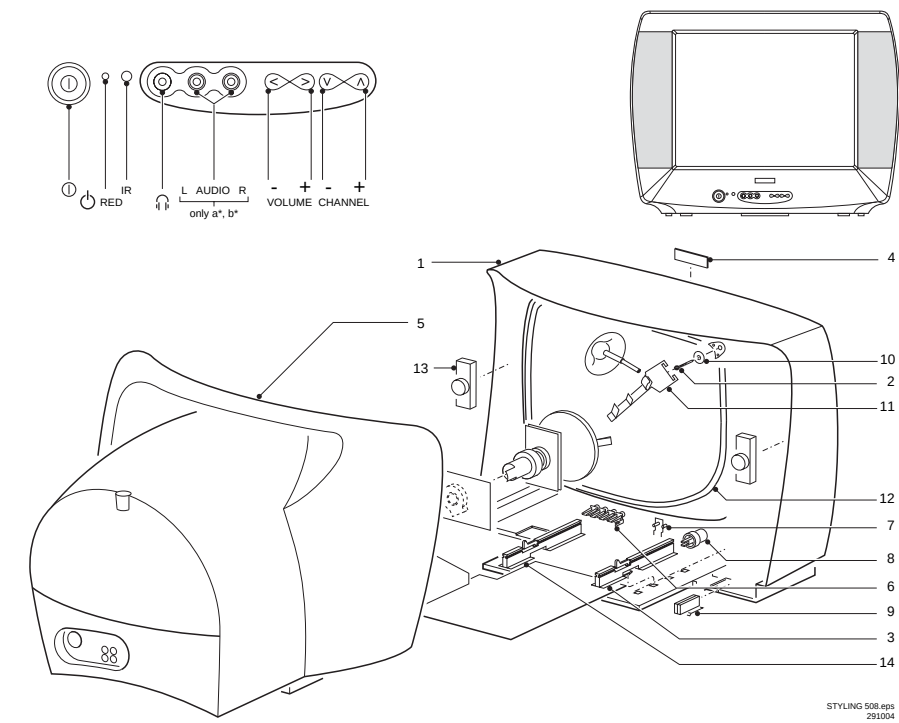
1	3135 030 00411	Overlay control	25	3135 031 20373	Rail vertical left
2	3135 037 52701	Top cover			
3	3135 037 54831	Front	26	3135 034 01872	Frame LED sensor board
4	2422 264 00464	Tweeter	27	3135 034 01501	Support mirror top
5	3135 037 54841	Grille	28	3135 031 20362	Rail horizontal
			29	3135 034 01521	Support mirror left
6	2422 264 00463	Woofer	30	3135 034 90122	Mirror
7	3135 031 20383	Rail vertical right			
8	3135 031 20362	Rail horizontal	31	3135 037 52881	Rear cover upper
9	3122 438 71800	Light engine	32	3135 030 40151	Cap mounting
	3122 438 71310	Lamp	33	3135 037 52891	Rear cover lower
			34	3135 034 04271	Door lamp access
10	9137 001 77705	Lamp supply			
11	3135 031 20264	Bracket right interconnect			
12	3135 034 02721	Bottom plate			
13	3135 037 54851	Label rear jack			
	3135 037 51811	Filter			
14	3135 034 04241	Light shield			
15	3135 034 01923	Bracket light engine			
16	3135 037 51623	Cover side jack			
17	3135 031 01721	Mains cord EU			
17	3135 031 01711	Mains cord UK			
18	3135 034 01421	Support back			
19	3135 038 70051	Fan assy			
	3135 034 01432	Lamp cap back			
	3135 034 01441	Lamp cap front			
20	3135 031 20274	Bracket left interconnect			
21	3135 033 20301	Fresnel lens			
22	3135 033 20311	Lenticular lens			
23	Not applicable				
24	3135 034 01511	Support mirror right			

STYLING 507



1	3141 047 81371	Cabinet 29"	14	Not applicable	
1	3141 057 81761	Cabinet 34"	15	3141 054 23421	Chassis tray
1ab*	3141 057 69581	Front Cabinet 21"	16	Not applicable	
1c*	3141 047 74961	Front Cabinet 25"	17	Not applicable	VO plate
1de*	3141 047 83031	Front Cabinet 25"	18	3139 177 77971	Front lens
1fg*	3141 047 74741	Front Cabinet 29"	18ab*	3141 057 69611	Front lens
2	3141 057 85051	Rear cover 29"			
2	3141 057 81751	Rear cover 34"	19	Not applicable	
2a*	3141 057 80971	Back Cover 21SYRFA (12AV+SVHS)	20	Not applicable	
2b*	3141 057 80981	Back Cover 21SYRFA (4AV)			
2c*	3139 177 82871	Back Cover 25SYRFB/12AV+SV	9322 213 83682	Picture tube 29"	A68QCP691X500
2d*	3139 177 85681	Back Cover 25SYRF	9301 953 60542	Picture tube 34"	A80ERF142X45
2e*	3139 177 85671	Back Cover 25SYRF	9322 202 27682	Picture tube 21"	A51AKL13X10R
2f*	3139 177 85631	Back Cover 29SYRF	9301 943 70522	Picture tube 25"	A59QDC280X61(N)
2g*	3139 177 85661	Back Cover 29SYRF	9301 946 60542	Picture tube 29"	A68QCU770X73(N)
3	2422 264 00484	Loudspeaker 8Ω 15W	3139 124 46671	Mains control bracket	SSB bracket
3a*	2422 264 00505	Loudspeaker 8Ω 5W	3141 054 23441	SSB cover shielding	SSB main shielding
3b*	2422 264 00479	Loudspeaker 16Ω 5W	3141 051 20521	Interface board bracket	Mains cord
3c*	2422 264 00475	Loudspeaker 16Ω 20W	3141 051 20531		
3de*	2422 264 00476	Loudspeaker 16Ω 10W	3141 5054 23431		
3fg*	2422 264 00482	Loudspeaker 16Ω 10W	4622 006 06061		
4	3139 120 01671	Word mark 29"			
4	3141 050 00511	Word mark 34"			
4abde*	3139 120 01601	Word mark 20LCS			
5	3141 054 22031	EHT spacer			
6	4822 502 14602	CRT fixing screw			
6ab*	4822 502 14508	CRT fixing screw			
6cde*	4822 505 11195	CRT fixing screw			
7	Not applicable	Degaussing coil bracket	a*	29PT7333/93R	
8	3139 128 23791	Degaussing coil 29"	b*	34PT7333/93R	
8	3104 308 20581	Degaussing coil 34"	c*	21PT3224/93R	
8a*	4822 157 11444	Degaussing coil 21"	d*	21PT2324/79R	
8b*	4822 157 11446	Degaussing coil 21"	e*	25PT4524/93R	
8cde*	2422 549 45778	Degaussing coil 25"	f*	25HT3312/93R	
8fg*	3139 128 23381	Degaussing coil 29"	g*	25HT3317/93Y	
9	3139 124 47501	Light guide (3 LENS)			
10	3139 177 69551	Mains knob			
10ab*	3141 057 69591	Mains knob			
11	3139 177 75181	Control knobs			
11ab*	3141 057 69601	Control knobs			
12	3139 124 48601	Side I/O bracket (3P HP SV)			
12a*	3139 124 48531	Side I/O bracket (3P+HP)			
12b*	3139 124 49861	Side I/O bracket (2P+HP)			
13	Not applicable				

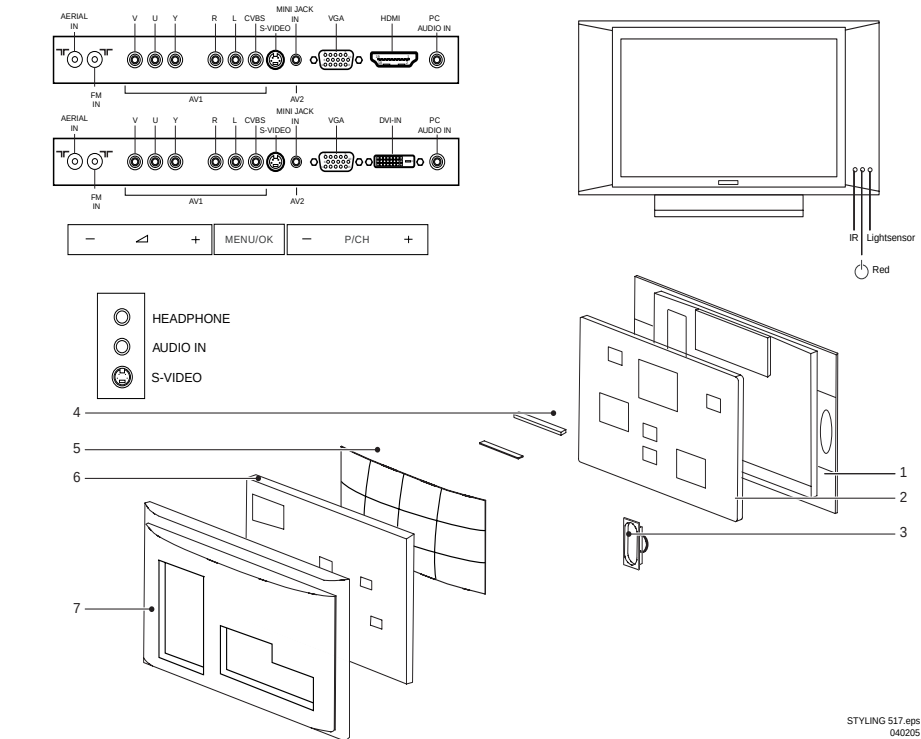
STYLING 508



- | | | |
|----|----------------|-------------------------------|
| 1 | 3139 177 60861 | Cabinet |
| 2 | 4822 502 14508 | CRT fixation screw |
| 3 | 4822 463 11125 | Chassis guide (VO) |
| 4 | 3139 120 01551 | Word mark |
| 5 | 3139 124 45071 | Rear cover |
| 6 | 3139 137 68342 | Control knob |
| 7 | 4822 380 10207 | Light guide |
| 8 | 3139 177 60831 | Mains knob |
| 9 | 4822 466 11453 | Mains cord relief |
| 10 | 4822 532 12744 | EHT spacer (3.3mm) |
| 11 | 4822 404 31025 | Degaussing coil bracket |
| 12 | 3139 128 23841 | Degaussing coil (multi molt) |
| 13 | 4822 240 10393 | Loudspeaker 8Ω 6W |
| 14 | 4822 463 11125 | Chassis guide |
| | 9301 843 10329 | Picture tube 20" A51EHW135X47 |

20L135/37R

STYLING 517

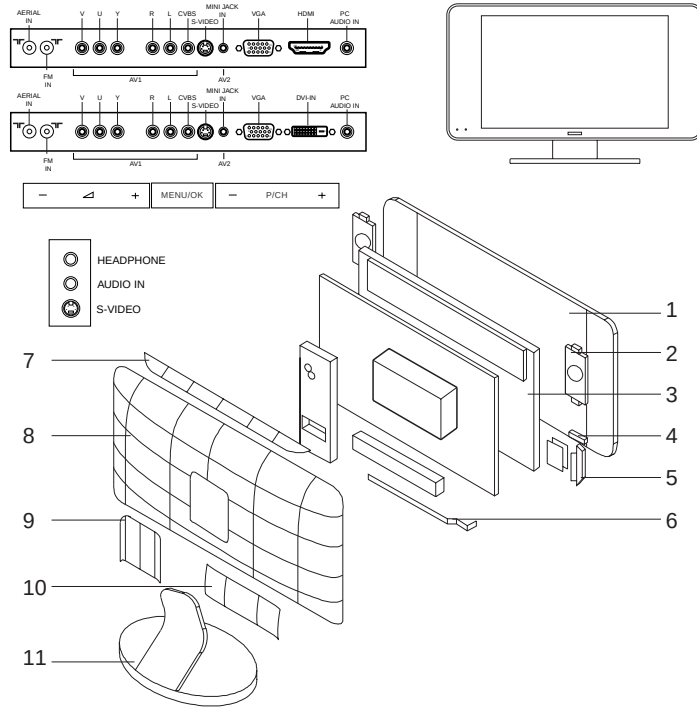


- | | | |
|----|----------------|----------------------------------|
| 1 | 3139 177 82721 | Top control |
| 2 | 3139 121 28221 | Vesa plate |
| 3 | 3139 124 61451 | Back plate |
| 4 | Not applicable | |
| 5 | 3139 177 85481 | Rear cover |
| 6 | 3139 177 85491 | Front Cabinet pearl white silver |
| 6 | 3139 124 61471 | Front Cabinet light grey |
| 7 | 9322 212 69682 | LCD screen LC260W01-A5K6 |
| 8 | 2422 264 00506 | Loudspeaker 8Ω 5W |
| 9 | 3139 177 85641 | Connector plate |
| 10 | 3139 128 77331 | Metal stand |
| 11 | Not applicable | |
| | 3139 120 01731 | Word mark |
| | 3139 124 43391 | Light guide |
| | 2422 076 00546 | Aerial cable |

3128 147 15821 Remote control RC1553801/01
2422 070 98151 Mains cord EU

26PF8946/12

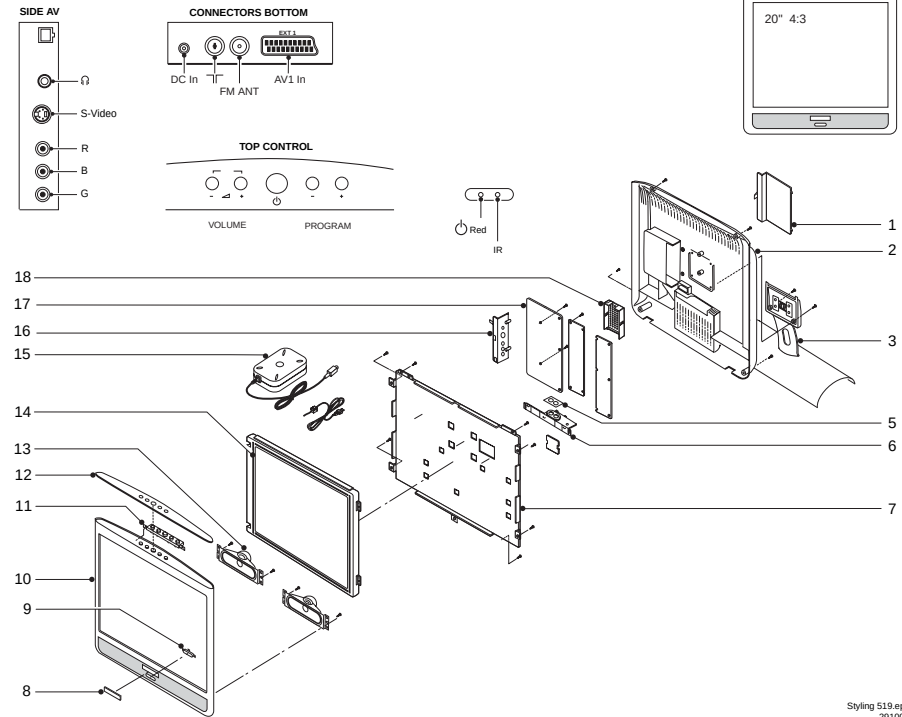
STYLING 518



STYLING 518.eps
291004

1a*	3141 047 80851	Front Cabinet (-/37)	3139 128 77421	VESA plate stand (spacer. for -/37 only)
1b*	3141 047 83331	Front Cabinet (-/37)		
1c*	3141 047 78791	Front Cabinet (-/79 & -/98)	3139 120 41551	Stand screw
1d*	3141 047 83391	Front Cabinet (-/37)	3128 147 15921	Remote control RC1553803/01 (for -/37 only)
1e*	3141 047 77111	Front Cabinet (-/79 & -/98)		
1f*	3141 047 83411	Front Cabinet (-/79 & -/98)	3128 147 15901	Remote control RC1553802/01 (for -/79 & -/98 only)
1g*	3141 047 83421	Front Cabinet (-/79 & -/98)		
2a*	2422 264 00507	Loudspeaker 8Ω 5W	3139 238 08571	Remote control RC1553805/01 (for -/79 & -/98 only)
2bcddefg	2422 264 00506	Loudspeaker 8Ω 5W		
3a*	9322 196 32682	LCD Panel LC171W03-A4	2422 070 98208	Mains cord UL (for -/37 only)
3bcf*	9322 212 69682	LCD Panel LC260W01-A5K6	2422 070 98248	Mains cord AUS/NZ (for -/79 only)
3deg*	9322 209 84682	LCD Panel LC230W01-A2K8		
4a*	3139 124 49011	Lens 17"	2422 070 98151	Mains cord EU (for -/98 only)
4bc*	3139 124 60071	Lens 26"	2422 076 00584	Cable VGA to CINCH (red, green and blue) 1.5m
4de*	3139 124 60061	Lens 23"		
4fg*	3139 124 61321	Lens 23" Pixel plus	2422 076 00604	Antenna cable F-type (for -/37 only)
5	3139 124 49031	Control knobs LCO4		
6a*	3139 177 80711	Connector plate B/CINCH/HDMI 17" (-/37)	2422 076 00474	Antenna cable IEC-type (for -/79 & -/98 only)
6a*	3139 177 77521	Connector plate B/CINCH/CVI 17" (-/79 & -/98)	2422 076 00546	FM aerial cable
6bd*	3139 177 80701	Connector plate B/CINCH/HDMI 23/26" (-/37)	2422 076 00585	Cable PHONE to CINCH (red, green and blue) 1.5m
6ceg*	3139 177 77411	Connector plate B/CINCH/CVI 23/26" (-/79 & -/98)		
7a*	3139 124 48981	Top ventilator cover 17"	*a	17PF9946
7bcf*	3139 124 49001	Top ventilator cover 26"	*b	26PF9966
7deg*	3139 124 48992	Top ventilator cover 23"	*c	26PF9946
8a*	3141 047 81051	Back Cover 17" (-/37)	*d	23PF9966
8a*	3141 047 80471	Back Cover 17" (-/79 & -/98)	*e	23PF9946
8bcf*	3141 047 80451	Back Cover 26"	*f	26PF9956
8deg*	3141 047 80461	Back Cover 23"	*g	23PF9956
9a*	3139 124 48951	VESA cover 17"		
9bcf*	3139 124 48971	VESA cover 26"		
9deg*	3139 124 48961	VESA cover 23"		
10a*	3139 124 60601	Door 17" (-/37)		
10a*	3139 124 60591	Door 17" (-/79 & -/98)		
10bcf*	3139 124 48761	Door 26"		
10deg*	3139 124 48771	Door 23"		
11a*	3139 128 77001	Stand 17"		
11bcf*	3139 128 77011	Stand 26"		
11deg*	3139 128 77021	Stand 23"		

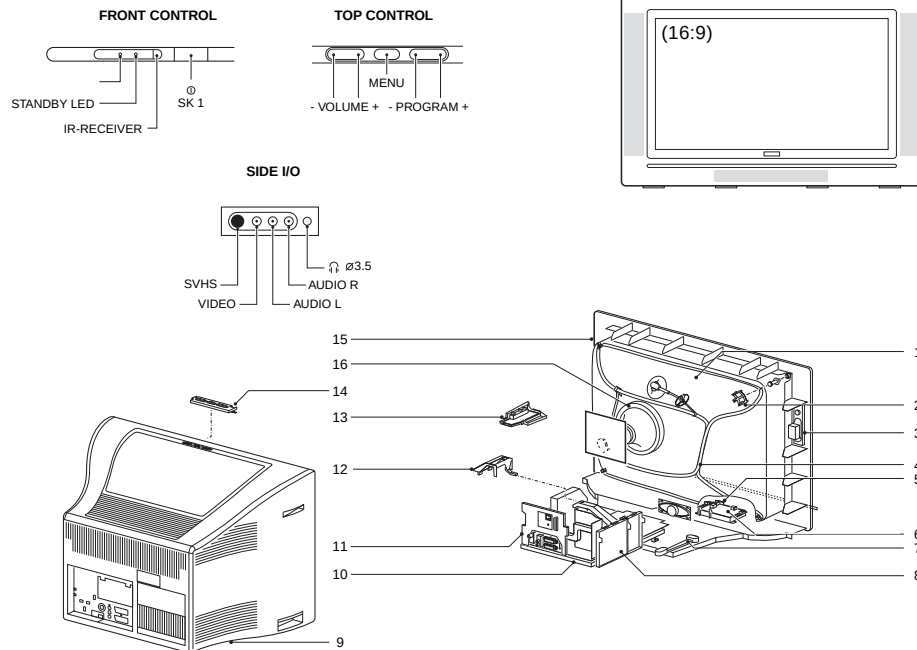
STYLING 519



Styling 519.eps
291004

1a*	3139 177 71241	Top control 14"	2422 070 98151	Mains cord EUR
1c*	3139 188 81571	Top control 15"	2420 070 98147	Mains cord UK
1b*	3139 188 81551	Top control 20"		
2a*	3139 121 28051	Vesa plate 14"	*a	14PF7846/12/58
2c*	3139 177 85360	Vesa plate 20"	*b	15PF7846/12/58
			*c	20PF7846/12/58
2b*	3139 121 28051	Vesa plate 15"		
3	Not applicable			
4	Not applicable			
5ab*	3139 257 60571	Rear cover 14"/15"		
5c*	3111 257 60491	Rear cover 20"		
6a*	3111 257 60561	Front Cabinet 14"		
6c*	3111 257 60482	Front Cabinet 20"		
6b*	3111 257 61231	Front Cabinet 15"		
7a*	9322 207 49682	TFT 14" LCD T140VN01		
7c*	9322 215 40682	TFT 20" LCD LC201V02-A3K9		
7b*	9322 207 48682	TFT 15" LCD LC150X02-A4		
8ab*	2422 264 00512	Loudspeaker 4Ω 5W		
8c*	2422 264 00444	Loudspeaker 8Ω 10W		
9	3139 177 82781	Connector plate		
10a*	3139 128 77082	Metal stand 14"		
10c*	3139 128 77062	Metal stand 20"		
10b*	3139 128 77451	Metal stand 15"		
11	Not applicable			
ab*	3139 120 01771	Word mark 14"/15"		
c*	3139 120 01601	Word mark 20"		
a*	3139 124 46161	LCD lens 14"		
bc*	3139 177 72821	LCD lens 15/20"		
	3139 238 08141	Remote control RC19335019/01		

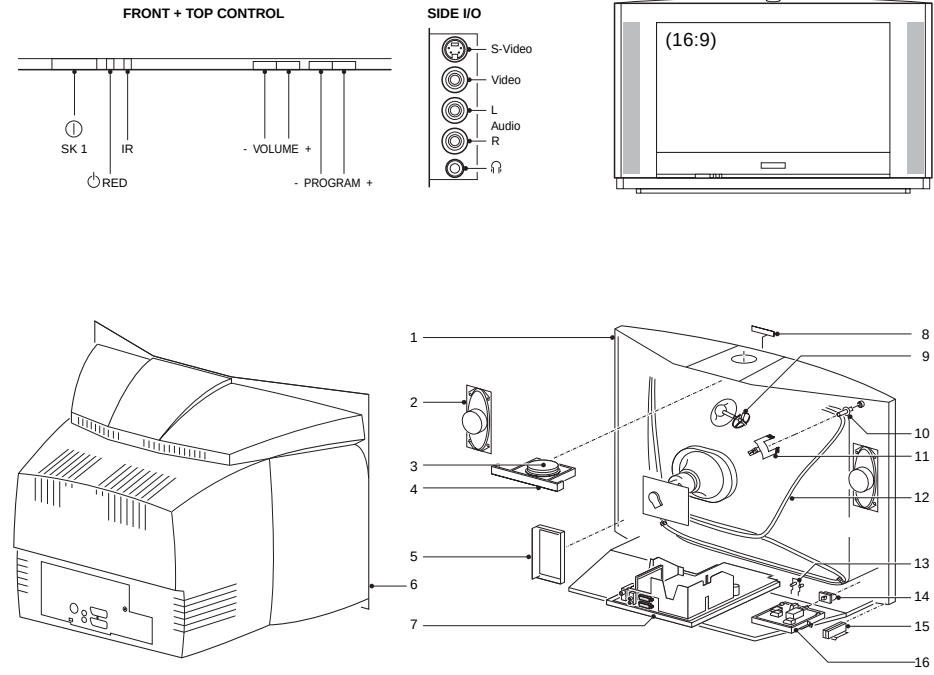
STYLING 520



STYLING 520.eps
291004

1	9301 899 90301	Picture tube 28"	3139 177 79041	Strip left + lens 28"
1	9301 967 10306	W66ERF042x044	3139 177 77711	Strip left + lens 32"
1	9301 924 90314	Picture tube 28"	3104 308 11201	Strip left + lens 28"
1	9322 173 93682	W66ERF172x044	3104 308 11201	Strip left + lens 32"
2	4822 404 31341	Picture tube 32"	3139 177 79051	Strip right 28"
3	3104 308 78721	W76ERF062x044	3139 177 77701	Strip right 32"
4	2422 549 44621	Picture tube 32" W76EKW10x73	3104 308 10951	Strip right 28"
5a*	3139 177 75621	Coil clamp	3104 308 10891	Strip right 32"
5b*	3104 308 11041		3104 304 23041	DAF Bracket
6	Not applicable	Loudspeaker 10Ω 12W	3104 304 24151	SSB bracket top
7	3104 304 23471	Degaussing coil 28"	3104 304 24901	SSB bracket bottom
8	Not applicable	Degaussing coil 32"	3104 301 24191	Shielding frame SSB A-side
9a*	3104 308 12451	Mains knob	3104 301 24201	Shielding frame SSB Z-side
9a*	3104 308 12461		3104 301 24211	Shielding SSB A-side
9b*	3104 308 11231		3104 301 24221	Shielding SSB Z-side
9b*	3104 308 11221			
10	3104 304 23001	Mains bracket	3104 304 26161	Bottom plate
11	3104 304 21314	Rear cover 28"	3111 250 01041	Word mark 28"
12	3104 304 24891	Rear cover 32"	3111 250 01051	Word mark 32"
13	3104 328 30551		4822 321 11425	Mains cord EU
14	3104 328 30571		4622 007 51622	Mains cord UK
15a*	3104 328 33011		4822 402 11183	Mains cord relief
15b*	3104 328 27771		3139 238 07921	Remote control
15a*	3104 328 33021		3128 147 14411	Remote control
15b*	3104 328 27731		4822 505 11195	CRT screw 28"
16	Not applicable		4822 502 14602	CRT screw 32"
	3104 304 25712	Side I/O		
	3104 304 25722	Top control		
	3104 304 21091	Cabinet 28" incl. bottom plate		
	3104 304 21031	Cabinet 28"		
	3104 304 25712	Cabinet 32" incl. bottom plate		
	3104 304 25712	Corner coil bracket short 28" + 32"		
	3104 304 25722	Corner coil bracket Long 32"		
	3104 304 21091	Corner coil bracket 32"		
	3104 304 21031	Rotation coil 32"		
	3104 304 25712	Corner coil bracket short 28"		

STYLING 522

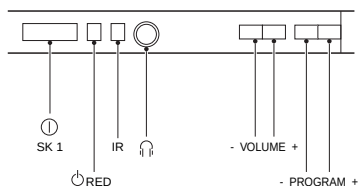


Styling 522.eps
291001

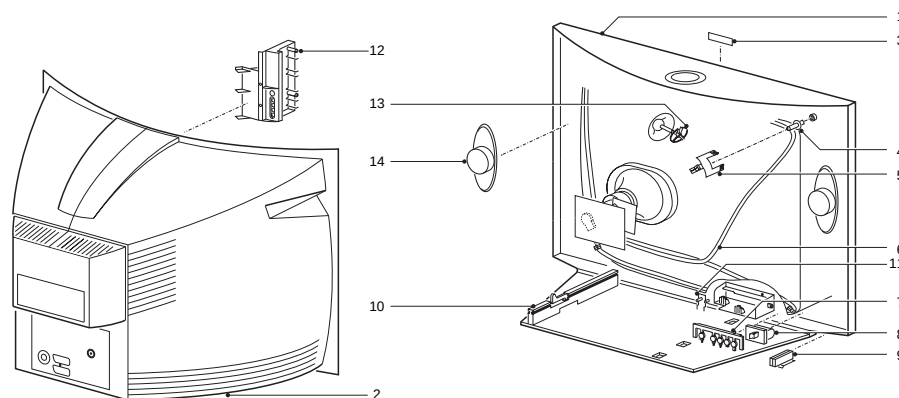
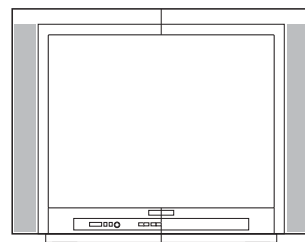
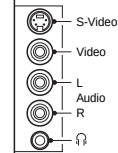
1	3139 177 84511	Cabinet
1c*	3139 124 31561	Cabinet
2	2422 264 00485	Loudspeaker 8Ω 5W
4	3139 124 30381	Top control bracket
4bc*	3139 124 33941	Top control bracket EU
5	3139 124 37662	Side AV bracket
6	3127 107 50111	Rear cover
7	3139 124 61281	Chassis tray
8	3141 050 00291	Word mark PHILIPS
9	3111 254 23481	EHT and degaussing coil clamp
10	4822 502 14602	CRT fixing screw
11	4822 403 70906	Degaussing coil bracket
12	2422 549 00129	Degaussing coil 28"
13	3139 124 31631	Light guide
14	3139 177 72271	Mains knob
14	3139 124 33011	Mains knob shaft
15	4822 404 31291	Mains cord relief
16a*	3139 124 32522	Front interface bracket
16b*	3139 124 32523	Front interface bracket
16c*	3139 124 32521	Front interface bracket
	4822 321 11499	Mains cord EU
	2422 070 98199	Mains cord
	4822 321 11493	Mains cord UK (/05, /25)
	4622 007 51852	Mains cord
	4822 131 11345	Picture tube W66ECK001X14
*a	28PW6008/01	
*b	28PW6008/05	
*c	28PW6008/58	

STYLING 523

FRONT + TOP CONTROL



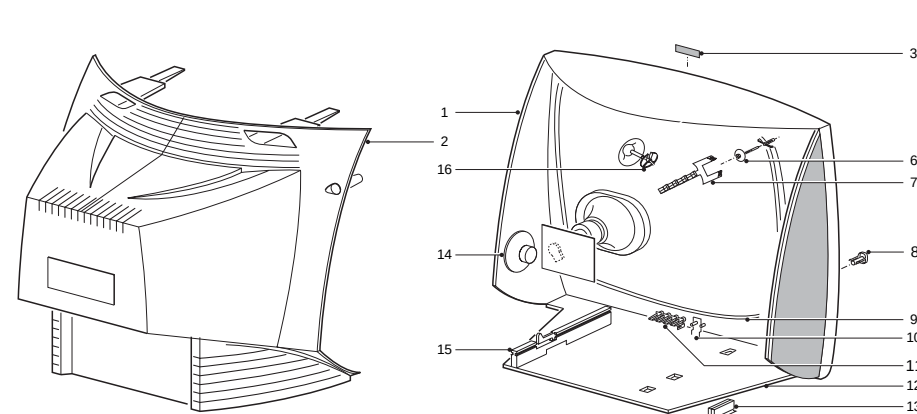
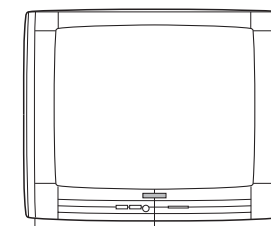
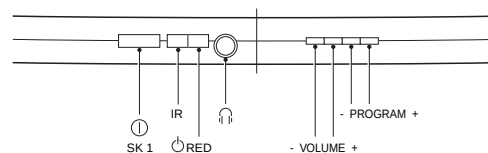
SIDE I/O



Styling 523 eps
291004

1	3127 107 60161	Cabinet 25"	4622 007 51852	Mains cord
1cd*	3127 107 60071	Cabinet 28"	2422 070 98199	Mains cord
1e*	3127 107 60091	Cabinet 28"	4622 009 50501	Mains cord
2ab*	3127 107 50081	Rear cover	3111 257 71441	Stand (silver) UK only
2cde*	3127 107 50091	Rear cover		
3	3141 050 00291	Word mark	*a	25PT4458/01
4	4822 505 11195	CRT fixing screw	*b	25PT4458/05
5	4822 403 70906	Degaussing coil bracket	*c	28PT4458/01
6	2422 549 45778	Degaussing coil 25"	*d	28PT4458/05
6cde*	2422 549 00132	Degaussing coil 28/29"	*e	28PT5008/01
7c	3139 137 93871	Control knob		
7	3139 177 65871	Control knob		
7de*	3139 177 65921	Control knob		
8	3139 177 65861	Mains knob		
8cde*	3139 177 65911	Mains knob		
9	4822 404 31291	Mains cord relief		
10	3139 124 30881	Chassis guide		
11	3139 124 35681	Light guide		
11cde*	3139 124 37781	Light guide		
12	3139 124 37662	Side AV bracket		
13	3111 254 23481	Coil & EHT clamp		
14	2422 264 00476	Loudspeaker 16Ω W		
14e*	2422 264 00485	Loudspeaker 8Ω 5W		
ab*	4822 131 11184	Picture tube A59EAK071X11		
c*	9301 862 80214	Picture tube A66EAK075X11		
de*	9301 863 00301	Picture tube A66EAK075X21		
	4822 321 11499	Mains cord EU		
	4822 321 11493	Mains cord UK		

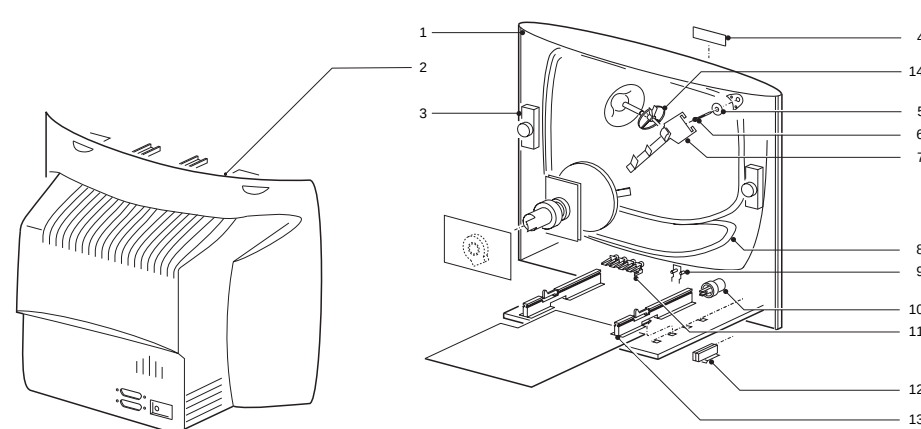
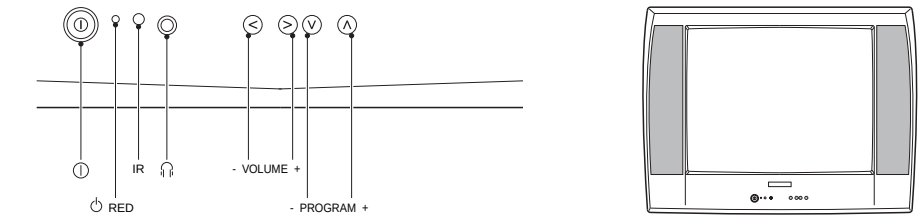
STYLING 524



Styling 524 eps
291004

1	3139 177 84411	Cabinet 28"	9322 147 09682	Picture tube A66EMZ43X07
1c*	3139 177 79521	Cabinet 28"		(.../21)
1de*	3139 177 84471	Cabinet 28"	9301 862 80214	Picture tube A66EAK075X11
2	3111 254 25081	Rear cover 28"		
2c*	3139 124 60081	Rear cover 28"		
2de*	3139 124 49151	Rear cover 28"	*a	28HT5404/01Z
3de*	3141 050 00291	Word mark	*b	28HT5404/05Z
4	Not applicable		*c	28PT4408/01
5	Not applicable		*d	28PT4418/01
6cd*	4822 505 11195	CRT fixing screw	*e	28PT4418/05
6abe*	3104 308 77012	CRT fixing screw		
7	4822 403 70906	Degaussing coil bracket		
8	3139 137 90651	Mains knob		
8bcd*	3139 177 84441	Mains knob		
9bcddef*	2422 549 00132	Degaussing coil 28"		
10	3139 124 37111	Light guide		
11	3139 137 90661	Control knob		
11cde*	3139 177 84431	Control knob		
12	Not applicable			
13	4822 404 31291	Mains cord relief		
14	2422 264 00499	Loudspeaker 16Ω 10W		
15	3139 124 30881	Chassis guide (VO)		
16	4822 401 11765	Coil & EHT clamp		
	4822 321 11499	Mains cord EU		
	2422 070 98199	Mains cord		
	4622 009 50501	Mains cord		
	2422 070 98238	Mains cord UK		
	4622 009 50481	Mains cord UK		
	4822 131 11045	Picture tube A66EAK071X11		

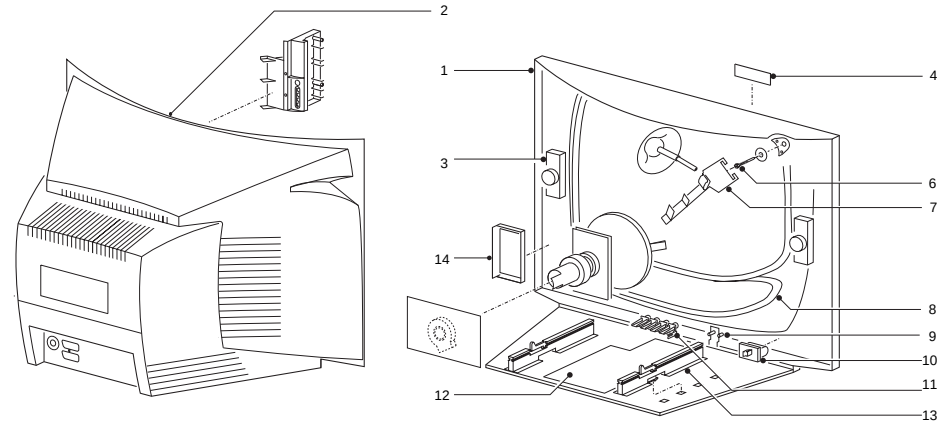
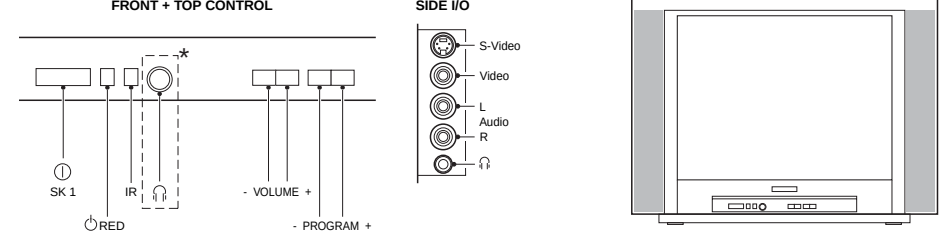
STYLING 525



STYLING 525.eps
291004

1	3127 107 60111	Cabinet 25"	9301 710 90314	Picture tube 25"
1bc*	3127 107 60101	Cabinet 25"		A59EAK071X11
2	3111 254 25571	Rear cover 25"	4822 321 11499	Mains cord EU
2bc*	3111 254 25071	Rear cover 25"	4822 321 11493	Mains cord UK
3	2422 264 00333	Loudspeaker 16Ω 5W	2422 070 98199	Mains cord UK
			4622 009 50501	Mains cord EU
4	3111 250 00201	Word mark Philips		
5	3111 254 23481	Coil & EHT bracket	*a	25HT5405/01B
6	3139 124 30881	CRT fixing screw	*b	25HT5405/01Z
6bc*	3104 308 77012	CRT fixing screw	*c	25HT5405/05Z
7	4822 403 70906	Corner coil bracket		
7bc*	3104 304 14414	Corner coil bracket		
8	2422 549 45778	Degaussing coil 25"		
9	3139 124 25601	Light guide		
10	3139 137 96621	Mains knob		
11	3139 137 96611	Control knob		
12c	3122 224 04623	Mains cord relief		
12	4822 404 31363	Mains cord relief		
13	3139 124 30871	Chassis guide right (HB)		
14	3139 124 30881	Chassis guide left (VO)		
	9322 147 09682	Picture tube 25"		
		A59EMZ43X07		

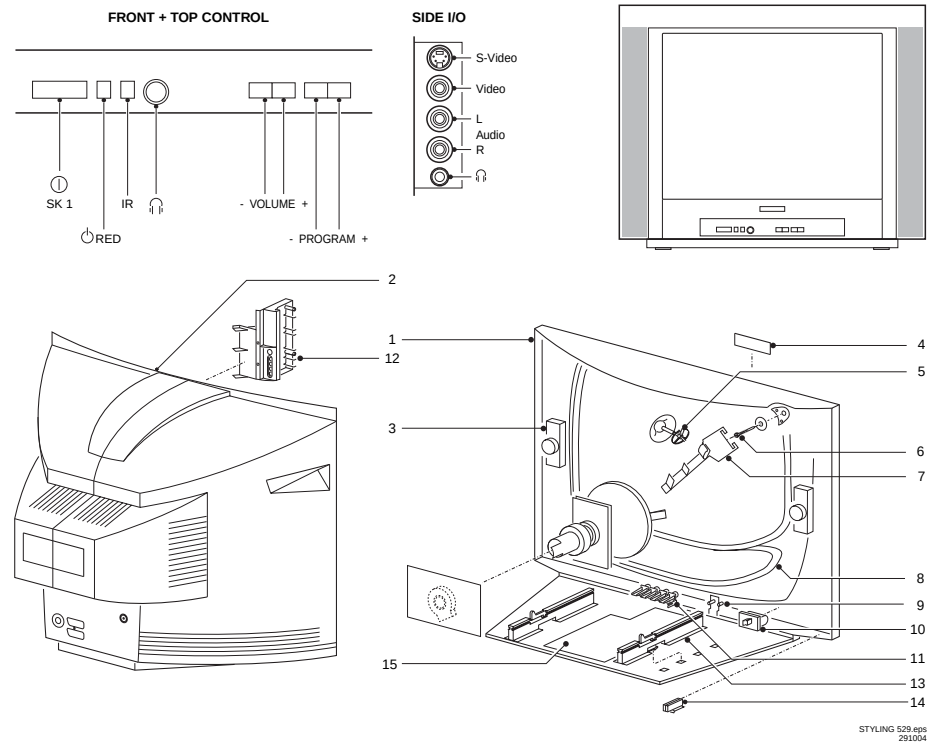
STYLING 528



Styling 528.eps
291004

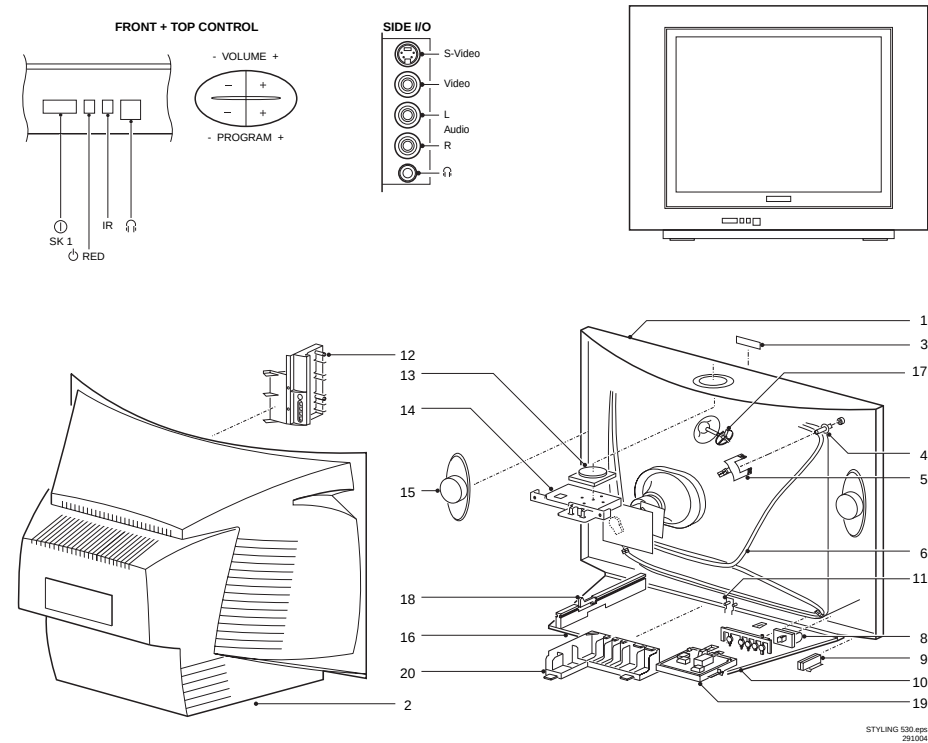
*Not applicable for 21PT5408				
1	3139 177 02140	Cabinet 21"		
1a*	3139 177 67451	Front Cabinet 21" (HP+3AV)		
2	3141 054 22611	Rear cover 21"		
3	2422 264 00411	Loudspeaker 16Ω 5W		
4	3139 120 01371	Word mark (silver)		
4a*	3141 050 00331	Word mark		
5	4822 404 31291	Mains cord relief		
6	4822 505 11195	CRT fixing screw		
7	3139 124 33472	Degaussing coil bracket		
8	3139 128 23841	Degaussing coil 21"		
9	3139 124 32221	Light guide		
10	3139 124 34021	Mains knob		
10a*	3139 137 94231	Mains knob		
11	3139 124 36311	Control knob		
11a*	3139 137 94241	Control knob		
12	3139 124 33341	VO plate		
13	3139 124 46311	Chassis guide (V0)		
14	3139 124 37671	Side I/O bracket		
		21SDRF(HP+3P)		
	9301 903 43301	Picture tube A51ERF135X80		
	3139 128 76161	Mains cord		
	20PT6331/37C			
a*	20MS3341/37C			

STYLING 529



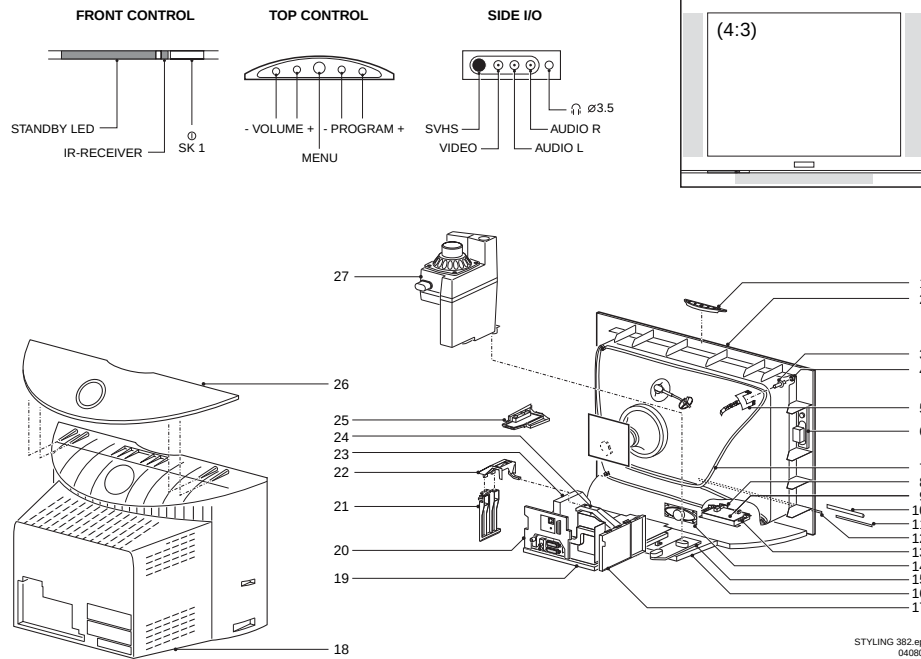
1	3139 177 58461	Cabinet
2	3139 124 42191	Rear cover NAFTA
3	2422 264 00411	Loudspeaker 16Ω 5W
4	3139 120 01371	Word mark (metal silver)
5	3139 124 23861	EHT spacer
6	4822 502 14508	CRT fixing screw/washer
7	3141 054 22351	Cable tie
8	3141 058 20131	Degaussing coil 21" US
9	3139 124 34401	Light guide
10	3139 177 58441	Mains Knob
11	3139 177 58431	Control knob USA
12	Not applicable	
13	3139 124 30811	Chassis guide (VO)
14	Not applicable	
15	3139 120 21491	VO plate
	9322 202 00682	Picture tube A51KQK99X02
	20L140/37C	

STYLING 530



1	3139 177 65671	Cabinet
2	3141 054 22521	Rear cover (12AV+SVHS) US
3	3139 120 01371	Word mark
4	4822 505 11195	CRT fixing screw
5	3141 054 22351	Cable tie
6	3139 128 23841	Degaussing coil
7	Not applicable	
8	3139 124 34021	Mains knob
9	Not applicable	
11	3139 124 32221	Light guide
13	3139 137 66921	Top control cover
14	3139 124 30381	Top control bracket
15	2422 264 00411	Loudspeaker 16Ω5W
16	Not applicable	
17	4822 532 61201	EHT spacer
18	3139 124 46311	Chassis guide (VO)
19	Not applicable	
20	9301 903 43301	Picture tube A51ERF135X80
	20PT6431/37C	

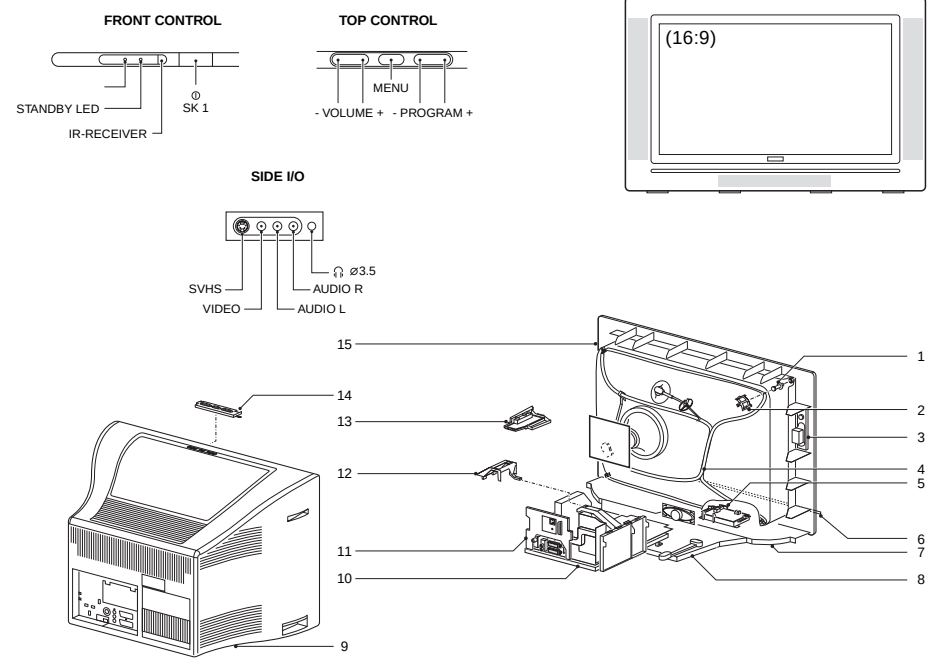
STYLING 534



STYLING 382.eps
040804

1	3104 328 35561	1114	Top control assy	25	3104 328 26751	1116	Side I/O assy
2	3104 328 35271	0005	Cabinet 29"	25	3104 304 23481	0205	Side I/O bracket
2	3104 328 35311	0005	Cabinet 34"	26	3104 307 97561	0008	V0 Top cover 29"
3	4822 500 30034	0014	CRT screw	26	3104 307 97551	0008	V0 Top cover 34"
4	4822 404 31294	0008	CRT fixing insert (VP19000)	27	3104 130 02221	5210	Subwoofer box
5	3139 124 31122	0020	Bracket degaus. coil 29" (4x)		3104 304 22432	0065	Bracket PIP/3D-comb panel
5	3139 124 32811	0020	Bracket degaus. coil 34" (4x)		3139 124 39581	0022	Bracket Rotation coil 29"
6	2422 264 00429	5213	L/R loudspeaker (2x)		3128 138 60661	5205	Rotation coil
7	2422 549 44579	5203	Degaus. coil 29" (/56r, /69,)		9322 160 15682	1099	Picture tube 29"
7	3104 308 20361	5203	Degaus. coil 34" (/56r, /69,)		9322 160 14682	1099	A68QCP891X501 (/69)
8	3104 308 13121	0049	Mains knob assy				Picture tube 29"
9	3104 328 35571	1160	Mains assy				A68QCP891X500 (/56r)
10	3104 304 23461	0041	Light guide		9322 213 83682	1099	Picture tube 29"
11	3104 308 13091	0046	Deco strip short 29"				A68QCP691X500 (/93r)
11	3104 308 23101	0046	Deco strip short 34"		9301 978 20542	1099	Picture tube 34"
12	3104 308 13131	0047	Deco strip Long 29"				A80ERF042X45H (/56r, /93)
12	3104 308 23141	0047	Deco strip Long 34"		9301 978 30542	1099	Picture tube 34"
13	3104 304 23471	0046	Bracket Mains Switch panel				A80ERF042X46H (/69)
14	2422 264 00431	5215	Centre loudspeaker (1x)		3128 147 14411	1850	Remote RC4301/01B
15	3104 304 24241	0063	Subwoofer support bracket		4822 321 11493	8190	Mains cord (/56r)
16	3104 304 23501	0032	Bottom plate 29"		4822 321 11499	8190	Mains cord (/69)
17	3104 304 23041	0034	Bracket for DAF panel		4622 006 06061	8190	Mains cord (/93)
18	3104 307 97501	0010	Rear cover assy 29"		4822 402 11183	1406	Mains cord holder
18	3104 307 97491	0010	Rear cover assy 34"		3104 300 12311	0051	Matchline emblem
19	3104 304 23001	0030	Bracket for LSP		3104 300 12231	0050	Word mark 29" PHILIPS
20	3104 328 30063	1126	Jack panel		3104 300 12241	0050	Word mark 34" PHILIPS
21	3104 304 24141	0075	Bracket for SSB bottom support				29PT9421/xx
22	3104 304 24151	0038	Bracket for SSB top support				34PT9421/xx
23	3104 301 24191	0072	Shielding frame SSB (A-side)				29PT9221/xx
23	3104 301 24201	0075	Shielding frame SSB (Z-side)				
23	3104 301 24211	0073	Shielding cover SSB (A-side)				
23	3104 301 24221	0074	Shielding cover SSB (Z-side)				
24	3104 304 24131	0072	LOT support bracket				

STYLING 535



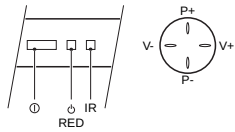
STYLING 535.eps
020305

1	3119 107 05142	Cabinet 28"
2a*	3111 254 25081	Rear cover
2b*	3111 254 25091	Rear cover
3	3111 250 00201	Word mark
4	3139 124 38211	Mains harmonic bracket
5	3119 107 17651	EPS bracket
6	4822 505 11195	CRT fixing screw
7	4822 403 70906	Corner coil bracket
8	3139 137 90651	Mains knob
9	4822 157 11762	Degaussing coil 28"
10	3139 124 37111	Light guide
11	3139 137 90661	Control knob
12	3139 124 30571	No system card cap
13	4822 404 31291	Mains cord relief
14a*	2422 264 00398	Loudspeaker 16Ω 5W
14b*	2422 264 00414	Loudspeaker 8Ω 5W
15	3139 124 30881	Chassis guide
16	4822 401 11765	Coil & EHT clamp
	4822 131 11045	Picture tube A66EAK071X11
	4822 321 11499	Mains cord EU
	4822 321 11493	Mains cord UK

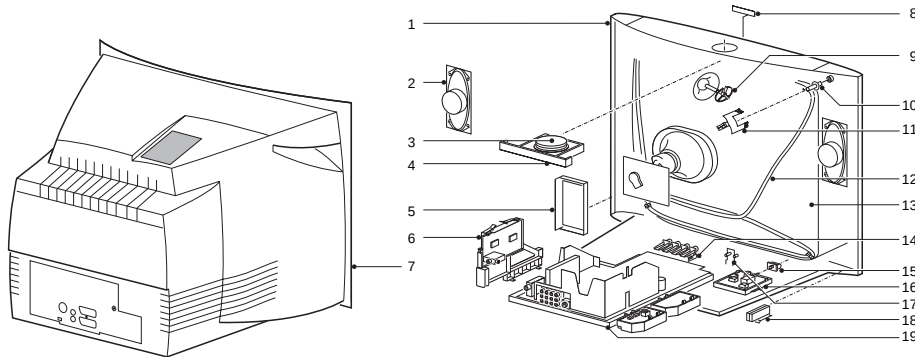
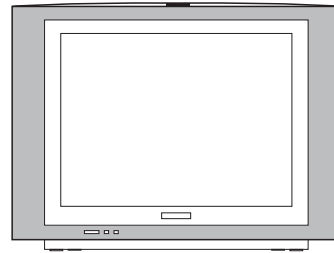
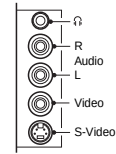
*a 28HT5404
*b 28HT5304

STYLING 536

FRONT + TOP CONTROL



SIDE I/O



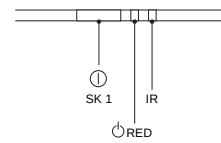
Styling 536.eps
100205

1acde*	3141 047 66001	Cabinet 29"
1bi*	3141 057 65231	Cabinet 29"
1fgh*	3141 047 66361	Cabinet 34"
2abcdei*	2422 264 00379	Loudspeaker 8Ω 10W
2fgh*	2422 264 00444	Loudspeaker 8Ω 10W
3	3139 137 66921	Top control button
4	3139 124 30381	Top control bracket
5	3139 124 39541	Side AV bracket
6	Not applicable	
7abcde*	3139 124 37231	Rear cover 29"
7fgh*	3139 124 44831	Rear cover 34"
7i*	3141 057 65241	Rear cover 29"
8acde*	3141 050 00361	Word mark
8bi*	3141 050 00291	Word mark
8fgh*	Not applicable	Word mark
9abcde*	3141 054 22011	EHT spacer
9fghi*	4822 532 61201	EHT spacer
10	4822 502 14602	CRT fixing screw
11fgh*	3141 054 22351	Corner coil bracket
11abcdei*	Not applicable	
12abcdi*	3139 128 23781	Degaussing coil 29"
12e*	4822 157 11551	Degaussing coil 29"
12fgh*	3139 128 23821	Degaussing coil 34"
13abei*	9322 173 75682	Picture tube A68QCP893X001
13cd*	9322 196 06682	Picture tube A68QDL281X062
13f*	9301 927 10542	Picture tube A80ERF042X14
13gh*	9301 927 30542	Picture tube A80ERF042X15
14	Not applicable	
15abcdei*	3139 138 14831	Mains knob

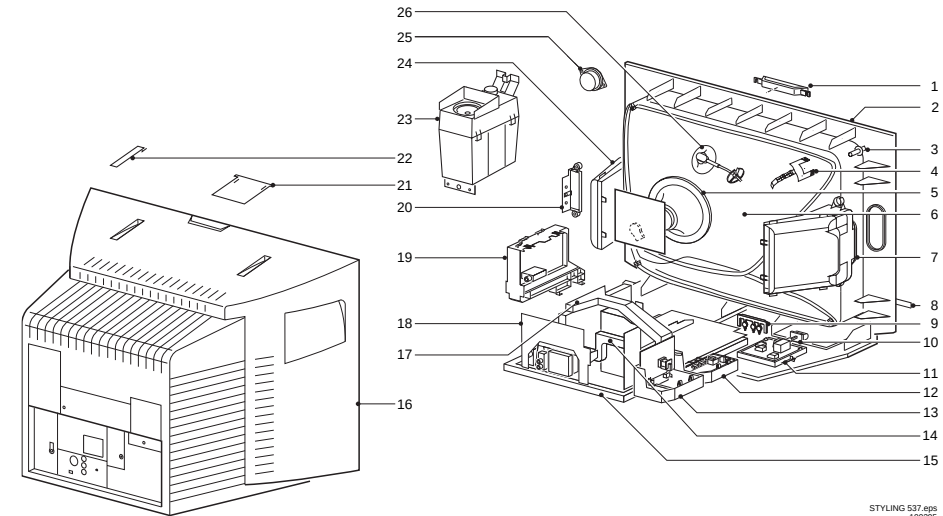
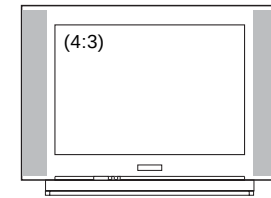
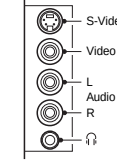
15fgh*	3139 124 30401	Mains knob
16	3139 124 30431	Front interface bracket
17abcde*	3139 124 30411	Light guide
17fgh*	Not applicable	
18	4822 404 31363	Main cord relief
19	3139 124 33531	Chassis tray
abc*	3139 128 75211	Mains cord
dh*	3139 128 75291	Mains cord
e*	3139 128 75230	Mains cord
fg*	2422 070 98199	Mains cord
*a	29PT4323/69S/56R	
*b	29PT5307/60	
*c	29PT4323/69R	
*d	29PT4323/71R	
*e	29PT4323/79R	
*f	34PT4323/56R	
*g	34PT4323/69R	
*h	34PT4323/71R	
*i	29PT5307/60S	

STYLING 537

FRONT + TOP CONTROL



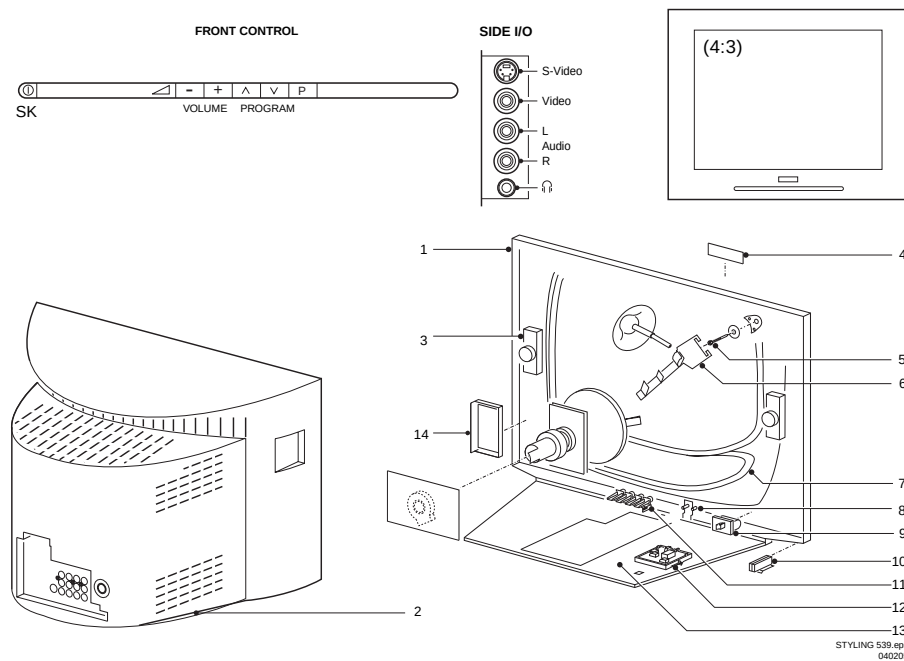
SIDE I/O



STYLING 537.eps
100205

1abc*	3139 138 12751	Top control assy 29"/34"
1de*	3139 126 40591	Top control
2ab*	3139 138 19011	Cabinet assy 29" (/57, /69, /79)
2ab*	3139 138 19411	Cabinet assy 29" (/61, /71)
2c*	3139 138 19101	Cabinet assy 34" (/56, /57, /69, /79)
2c*	3139 138 19401	Cabinet assy 34" (/61, /71)
3	3111 250 40031	CRT screw
4ab*	3139 124 31122	Bracket for Degaussing coil 29"
4c*	3139 124 32811	Bracket for Degaussing coil 34"
5ab*	3128 138 60652	Rotation coil 29"
5c*	3128 138 60642	Rotation coil 34"
5ab*	3139 124 39581	Bracket for rotation coil 29"
6ab*	9322 160 14682	CRT 29" (/56, /57, /61)
6b*	9322 160 15682	CRT 29" (/69, /71)
6b*	9322 160 16682	CRT 29" (/79)
6c*	9322 185 70682	CRT 34" (/56, /57, /79)
6c*	9322 185 75682	CRT 34" (/61, /69, /71, /79)
7ab*	3139 128 76611	Speaker & box assy (right)
7c*	2422 264 00379	Speaker (full range)
7de*	2422 264 00484	Loudspeaker
8ab*	3141 050 00161	Word mark PHILIPS 29"
8c*	3141 050 00141	Word mark PHILIPS 34"
8de*	3141 050 00281	Word mark PHILIPS 34"
9	3139 124 39211	Light guide
10	3139 138 10681	Mains knob assy
10d*	3139 177 69561	Push button
11	3139 124 32522	Bracket for Mains Switch panel
12	3139 124 33211	Bracket for Mains Harmonic panel
13	3104 304 21653	Bracket for DAF/DC-shift panel
14	3104 304 21603	Connector support bracket
15	3104 304 22832	Bracket for Large Signal panel
16a*	3139 124 39741	Rear cover 29" (/57, /69, /79)
16b*	3139 124 39331	Rear cover 29" (/57, /69, /79)
16b*	3139 124 40661	Rear cover 29" (/61, /71)
16c*	3139 124 40001	Rear cover 34" (/56, /57, /69, /79)
16c*	3139 124 39991	Rear cover 34" (/61, /71)
16d*	3138 124 49811	Rear cover 34" (/93R)
17	3104 304 21114	LOT & SSB support bracket
17c*	3104 304 22073	Bracket for Multi Voltage panel
17d*	3139 124 46811	LOT bracket L04
18b*	3139 124 42411	Cinch cover plate (/61, /71)
19bc*	3104 304 23801	Bracket for DW/PIP panel
20	3139 124 40131	Bracket for Side I/O panel
21	3139 124 39161	V0 plate for rear cover
22ab*	3139 124 39301	Screw cap for rear cover 29"
22cd*	3139 124 39241	Screw cap for rear cover 34"
23	3139 128 76491	Subwoofer box
24ab*	3139 128 76601	Speaker & box assy (left)
24c*	2422 264 00379	Speaker (full range)
25ab*	2422 264 00388	Tweeter 8Ω 8W
26	3114 311 03722	EHT cable
ab*	3139 128 23451	Degaussing coil 29" (/57, /69, /79)
ab*	3139 128 23781	Degaussing coil 29" (/61, /71)
c*	3139 128 23821	Degaussing coil 34"
de*	3104 308 20581	Degaussing coil 34"
	3104 308 73703	Wire focus cable (black)
	3104 308 73692	Wire focus cable (red)
	3104 308 73224	Antenna IEC cable
	3139 124 26301	Mains cord relief
	4822 404 31363	Mains cord relief
	3139 128 75223	Mains cord (/57)
	3139 128 75251	Mains cord (/61)
	3139 128 75201	Mains cord (/56, /69)
	3139 128 75291	Mains cord (/71)
	3139 128 75232	Mains cord (/79)
	3139 124 23051	Mains cord (/93R)
	3104 327 00021	Remote control (/56, /57, /69, /79)
	3104 327 00031	Remote control (/61, /71)
	3139 228 86452	Remote control (/93R)
	3104 304 24111	SSB snap
	1322 504 97401	Grease for EHT cap
*a	29PT8320/xxR	
*b	29PT8420/xxR	
*c	34PT8420/xxR	
*d	34PT4524/93R	
*e	34HT3312/93R	

STYLING 539



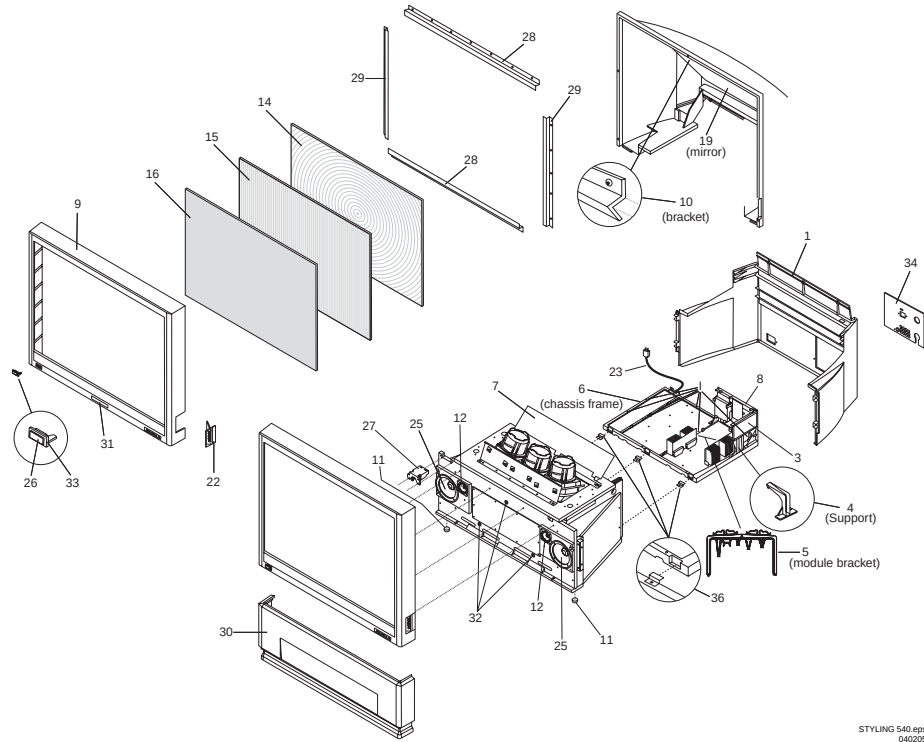
1	3141 047 80681	Cabinet
2	3139 177 81181	Rear cover
3	2422 264 00409	Loudspeaker 8Ω 5W
4	3141 050 00291	Word mark
5	4822 502 14602	CRT fixing screw
6	Not applicable	
7	3139 128 23381	Degaussing coil
8	3139 124 30411	Light guide
9	3139 177 80651	Mains knob
10	Not applicable	
11	Not applicable	
12	Not applicable	
13	4822 463 11225	Chassis guide (HB)
13	4822 463 11226	Chassis guide (VO)
14	3139 124 40131	Side AV bracket
15	Not applicable	
	9301 946 60542	Picture tube A68QCU770X73(N)
	29PT3324/93R	

Personal Notes:

This image shows a full page of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. In the bottom right corner, there is small black text that reads "E_06532_012.eps" and "131004".

E_06532_012.eps
131004

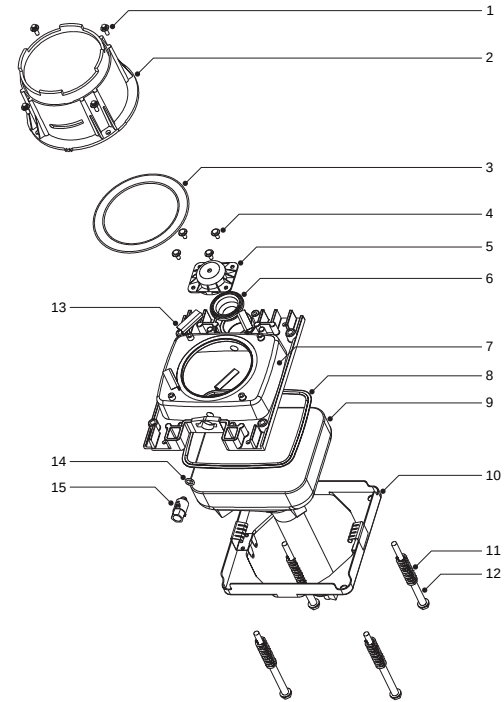
STYLING 540a



STYLING 540a.eps
040205

1	3135 034 04202	Rear cover	9322 202 92682	CRT P16LXL00HHA(C)
2	3135 037 51751	Rear upper assembly	9322 202 93682	CRT P16LXL00BMB(C)
3	Not applicable		9965 000 23140	Convergence template 43" 4/3
4	Not applicable			
5	3135 034 05131	Bracket Module		
6	3135 034 01991	Frame Chassis	*a 43PP8445/93	
7	3135 033 01361	Barrier Rear 43V	*b 43PP8446/93	
8	3135 034 02533	Frame Rear Jack	*c 43PP8447/93	
9	3135 037 54502	Cab Front ASSY 2k4		
10	3135 011 04611	Bracket Mirror MTG 43A10PTV		
10	3141 051 20471	Mirror Bracket side 43 left		
10	3141 051 20481	Mirror Bracket side 43 right		
11	3135 010 09741	Foot		
12	Not applicable			
14	3141 083 20021	Fresnel lens		
15	Not applicable			
16	3141 083 20011	Lenticular lens		
19	3135 034 90101	Mirror		
22	3135 037 54861	ASSY Side Jack AP		
23	2422 070 98154	Mains cord CHN		
25	2422 264 00497	Loudspeaker		
26	3135 014 10421	Button		
27	3135 037 50981	Button Vacation		
28	3135 034 01452	Retainer screen H no filt 43V		
29	3135 034 01461	Retainer screen V no filt 43V		
30a	3135 037 54521	Grille, Plastic		
30b	3135 037 54801	Grille, Plastic		
30c	3135 037 55431	Grille, Plastic		
31	3135 030 00471	Word mark PHILIPS 62MM 11007		
32	3135 013 02761	Baffle mounting cup		
33	3135 034 04531	Bracket vacation switch		
34	3135 030 00451	Label JP NPIP AP		
	3135 038 70081	Solar Cell Assembly		
	9322 202 91682	CRT P16LXL00RFA(C)		

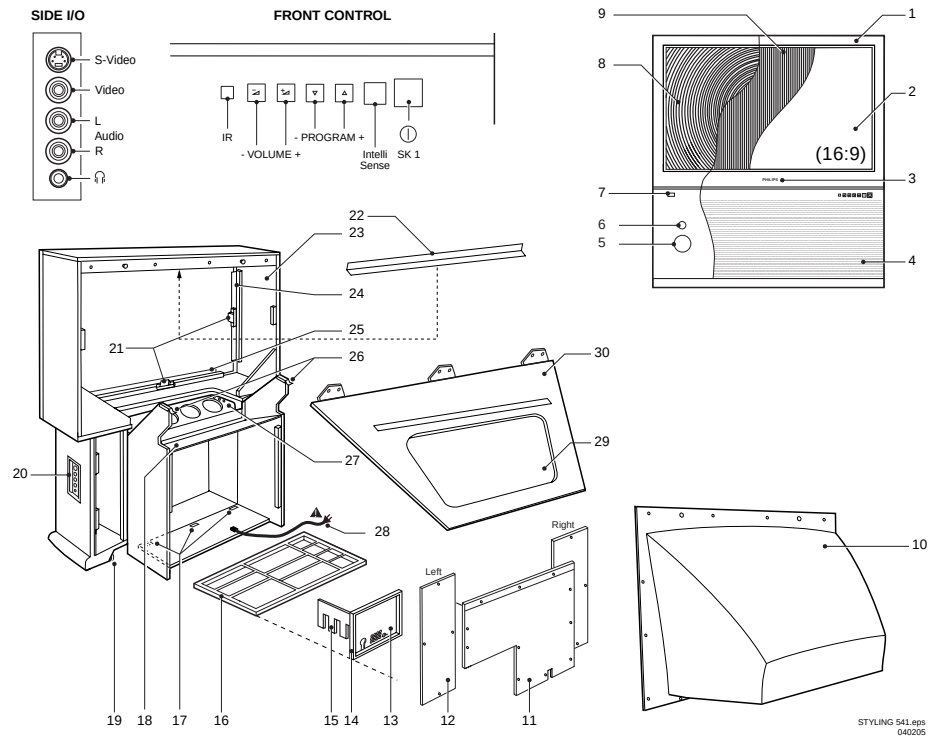
STYLING 540b



STYLING 540b.eps
040205

1	3135 010 02971	Screw (lens to coupler)
2	3135 034 00731	Lens C-element green
2	3135 034 00721	Lens C-element red-blue
3ab*	3135 013 02632	Seal lens
3c*	3135 013 02632	Seal lens
4	3135 010 02981	Screw
5	3135 014 02681	Cap coupler
6	4822 418 10413	Expansion diaphragm
7	3135 031 60011	Coupler CRT-LENS 43V
7	3135 031 60021	Coupler green
8	4822 532 13123	Seal CRT
9	9322 202 91682	Projection tube P16LXL00RFA(C)
9	9322 202 92682	Projection tube P16LXL00HHA(C)
9	9322 202 93682	Projection tube P16LXL00BMB(C)
10	3135 031 20651	CRT BKT-APRG ASSY AP
11	4822 492 11733	Compression spring
12	3135 010 08101	Screw
13	3135 014 02811	CRT pad
14	4822 530 10519	O-ring
15	4835 432 17791	Plug vent
*a	43PP8445/93	
*b	43PP8446/93	
*c	43PP8447/93	

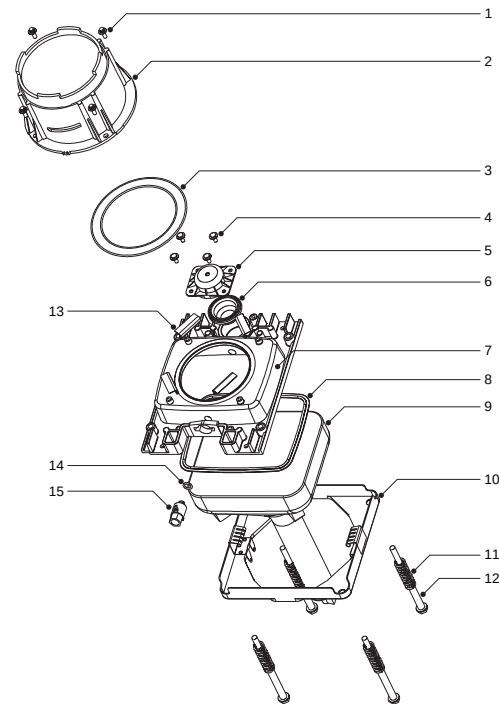
STYLING 541a



STYLING 541a.eps
040205

1a*	3135 037 53931	Screen Frame 46w	19	3135 030 40031	Caster
1b*	3135 037 55091	Frame Screen 46W	20	3135 037 50731	Panel Side Jack
1c*	3135 037 53951	Screen Frame ASSY 50V	21	3135 038 70081	Solar Cell Assembly
1d*	3135 037 72631	Screen Frame 55W	22	3135 011 03641	Rail 50" to 55"
1e*	3135 037 55081	Screen Frame 55W	22	3135 011 01623	Rail 60"-64"
2d*	3135 034 00922	Protective Screen HDR 50W-AP	23	3135 037 55481	ASSY Cabinet 46"
3	3135 030 00471	Word mark PHILIPS 62MM 11007	23	3135 037 72573	ASSY Cabinet 55"
4	3135 037 54581	Shield, Protective, Plastic	24ab*	3135 034 04111	scrn rtnr vert no filt 578
4bde*	3135 011 04141	Shield, cover	24c*	3135 034 04101	Scrtn rtnr vert no filt 770
5	2422 264 00452	LSP 25w tweeter	24d*	3135 034 03311	Scrtn rtnr vert side 690
5ac*	2422 264 00497	Speaker	24e*	3135 034 04091	Scrtn rtnr vert no filt 690
6	2422 164 00453	LSP 8Ω 25W woofer	25ab*	3135 034 04121	Scrtn rtnr horiz no filt 1056
6	3135 034 13691	Button vacation	25c*	3135 034 01121	Scrtn rtnr horiz no filt 1056
7ac*	3135 037 50981	Button vacation	25d*	3135 034 03291	Scrtn rtnr horiz top 1260
7d*	3135 034 00691	Button	25	3135 034 03301	Scrtn rtnr horiz bottom 1260
8	3135 033 20181	Fresnel lens 46"	25e*	3135 034 04081	Scrtn rtnr horiz no filt 1260
8	3135 033 20191	Fresnel lens 50"	26	3135 011 03003	Bracket mirror support
8	3135 033 20201	Fresnel lens 55"	27	3135 034 00891	Barrier Light
9	3135 033 20061	Lenticular 46"	28	2422 070 98154	Mains cord CHN
9	3135 033 20071	Lenticular 50"	29	3135 034 90051	Mirror 46"
9	3135 033 20081	Lenticular 55"	29	3135 034 90021	Mirror 50"
10	3135 034 02061	Rear cover 46"	29	3135 034 90061	Mirror 55"
10	3135 034 02211	rear cover, upper back 50"	30	3135 033 00461	Mirror BD 46"
10	3135 034 00791	Back cover-AP 55"	30	3135 033 00651	Mirror board
11	3135 033 00321	Rear cover 46"			
11	3135 033 00801	rear cover, back lower			
11	3135 033 00321	lower back 55"			
12	3135 033 00961	Cover speaker 46"AP			
12	3135 033 00811	Cover speaker 50"			
12	3135 033 00951	Cover speaker EMG STAR 55" AP			
13ac*	3135 030 00321	Label JP NPIP AP		3104 327 00021	RCS82D SBHV00030A
14	3135 034 02532	Frame rear jack		3128 147 13991	RC2049/01B
14be*	3135 034 01033	Frame rear jack	*a	9322 202 91682	CRT P16LXL00RFA(C)
14d	3135 034 02542	Frame rear jack	*b	9322 202 92682	CRT P16LXL00HHA(C)
15bde	3135 014 10062	PIP A10 frame	*c	9322 202 93682	CRT P16LXL00BMB(C)
16	3135 034 01991	Frame Chassis	*d	9322 173 22682	Pict.pube P16LTG00RFA
17	3135 011 02011	Holdwn bracket chassis	*e	9322 173 21682	Pict.pube P16LTG00HHA
18	3135 033 01031	Barrier Rear 46" AP		9322 173 23682	Pict.pube P16LTG00BMB
18	3135 033 00671	Barrier Rear 50"			
18	3135 033 01041	Barrier rear 55"			

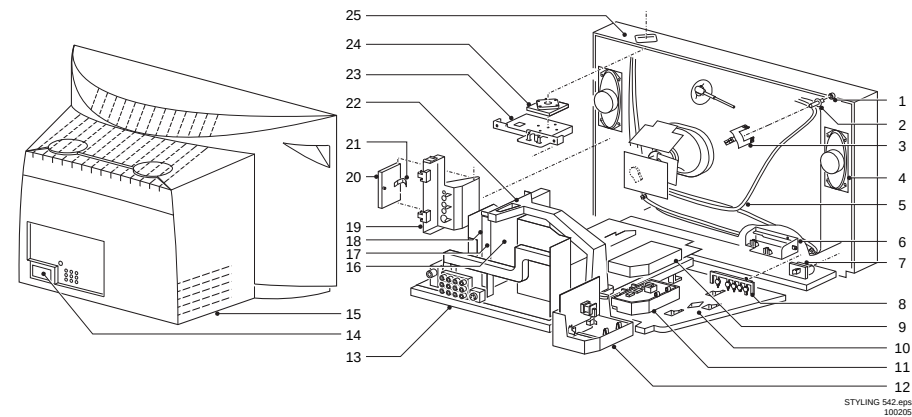
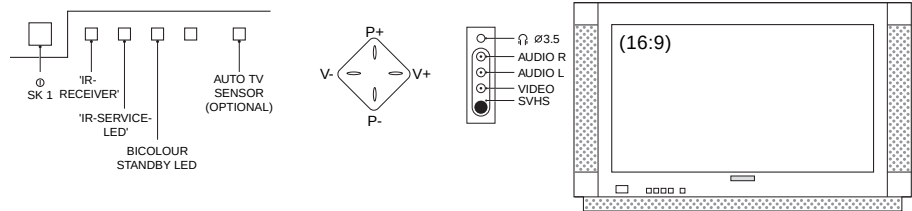
STYLING 541b



STYLING 541b.eps
040205

1	3135 010 02971	Screw (lens to coupler)
2	3135 034 00731	Lens C-element green
2	3135 034 00721	Lens C-element red-blue
3	3135 013 02632	Seal lens
4	3135 010 02981	Screw
5	3135 014 02681	Cap coupler
6	4822 418 10413	Expansium diaphragm
7	3135 011 03633	Coupler, RED&BLUE
7de*	3135 031 60021	Coupler green
8	4822 532 13123	Seal CRT
9	9322 202 91682	CRT P16LXL00RFA(C)
9	9322 202 92682	CRT P16LXL00HHA(C)
9	9322 202 93682	CRT P16LXL00BMB(C)
9d*	9322 173 22682	Pict.pube P16LTG00RFA
9d*	9322 173 21682	Pict.pube P16LTG00HHA
9d*	9322 173 23682	Pict.pube P16LTG00BMB
10	3135 031 20651	CRT BKT-APRG ASSY AP
11	4822 492 11733	Compression spring
12	3135 010 08101	Screw
13	3135 014 02811	CRT pad
14	4822 530 10519	O-ring
15	4835 432 17791	Plug vent
*a	46PP8745/93	
*b	46PP9545/93	
*c	50PP8545/93	
*d	55PP9527/93	
*e	55PP9545/93	

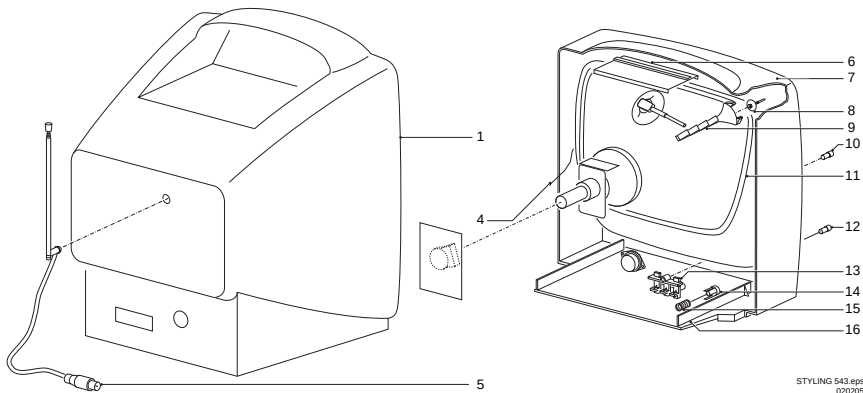
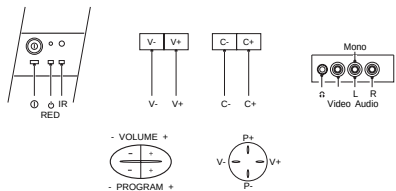
STYLING 542



STYLING 542.eps
100205

1a*	3104 308 77012	CRT screw 28"	3141 050 00291	Word mark
2	Not applicable		3104 050 00281	Word mark
3	4822 403 70906	Bracket fix deg. coil	9301 967 10307	Picture tube W66ERF172X044
4	2422 264 00491	Loudspeaker	9301 982 90314	Picture tube W76ERF182X044
5	2422 549 00129	Degaussing coil 28"	4822 321 11499	Mains cord
			4822 402 11183	Mains cord holder
			3139 238 09891	Remote RC19335023/01
5b*	2422 549 00128	Degaussing coil 32"		
6	3104 304 21853	Bracket mains unit	28PW8620/12	
7	3139 177 57661	Mains knob	32PW8620/12	
8	3104 304 21871	Light guide		
9	3104 304 22312	Cover		
10	3104 304 22012	Bottom plate		
11	Not applicable			
12	Not applicable			
13	3104 124 61231	Chassis tray		
14	3104 304 22312	Service connector cover		
15	3104 308 10221	Rear cover		
15b*	3104 307 96252	Rear cover		
16	Not applicable			
17	Not applicable			
18	Not applicable			
19	3104 304 21932	Bracket for Side I/O panel		
20	3104 304 21912	Door Side I/O		
21	3104 301 23972	Metal spring for door		
21	3104 308 70381	Locking unit for door		
22	3104 304 23011	Bracket for LOT/SSB		
23	Not applicable			
24	3104 304 22561	Top Control keypad		
25	3143 027 61891	Cabinet assy		
25*b	3104 027 61871			

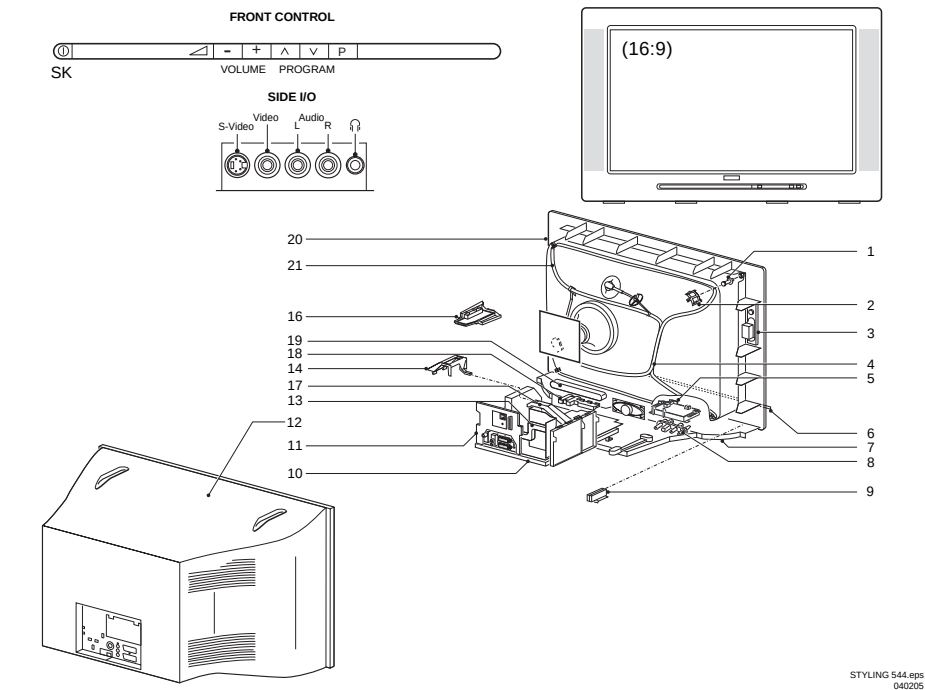
STYLING 543



STYLING 543.eps
020205

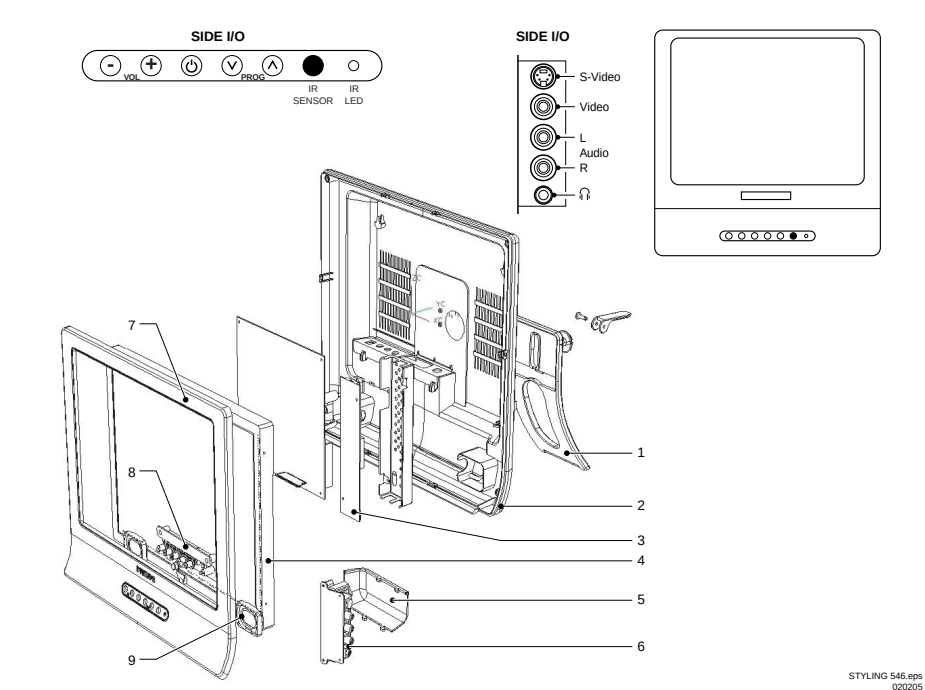
1	3141 057 69631	Mains knob		
2	3141 057 69641	Control knobs		
3	3141 054 23081	Light guide		
4	3139 124 40331	Chassis guide (HB)		
5	3139 124 30881	Chassis guide (VO)		
6	3139 120 01611	Word mark		
7	3111 254 23481	Coil & THT clamp		
8	4822 404 31291	Mains cord bracket		
9a*	2422 070 98231	Mains cord		
10b*	2422 070 89236	Mains cord		
11	3141 057 69621	Cabinet		
12	4822 404 30839	Degaussing coil bracket		
13	3141 054 23051	Rear cover		
14	3139 120 41391	CRT fixing screw		
15	9322 191 16682	Picture tube 14" A36AKJ15X07		
16	2422 549 45304	Degaussing coil 14"		
17	2422 264 00505	Loudspeaker 8Ω 5W		
18	3139 123 21491	Insulating plate		
19	3141 054 23411	Side AV bracket		
a*	3111 257 56161	Single rod antenna		
b*	4822 303 91238	Aerial		
	6310 200 92021	Remote control RC19335012/01		
*a	15PT1767/01			
*b	15PT1767/58			

STYLING 544



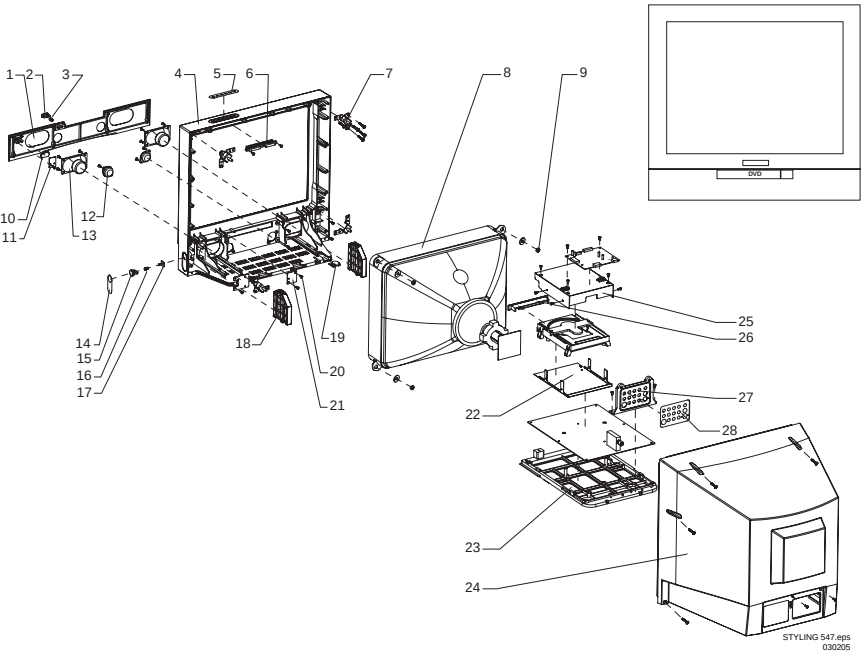
1	4822 505 11195	CRT Fixing screw	3139 147 20911	Tuner UV1316E/A I-4
2	4822 403 70906	Degaussing coil bracket	3139 238 07441	Remote control RC4330/01H
3	2422 264 00491	Loudspeaker 8Ω 10W		
4a*	2422 549 00129	Degaussing coil 28"	*a	28PW8720/12
5	3139 177 87791	Mains knob	*b	32PW8720/12
6a*	3141 050 00291	Word mark 28"		
6b*	3141 050 00281	Word mark 32"		
7	4822 404 31291	Mains cord bracket		
8	3139 124 62311	Light guide		
9	4822 404 31363	Mains cord relief		
15	3139 124 46742	SSB bracket		
17	3104 304 23011	LOT bracket		
18	3139 177 87811	Front control		
19	3139 177 87801	Control strip		
20a*	3143 027 62211	Cabinet 28"		
20b*	3143 027 61901	Cabinet 32"		
21	3111 254 23481	Coil & THT clamp		
a*	9301 967 10307	Picture tube 28"		
		W66ERF172X044		
b*	9301 982 90314	Picture tube 32"		
		W76ERF182X044		
	4822 466 11453	Mains cord relief		
	4822 321 11499	Mains cord EU		
	4822 321 11139	Mains cord		
	4822 321 11425	Mains cord		
	3104 304 90361	Insulating plate		

STYLING 546



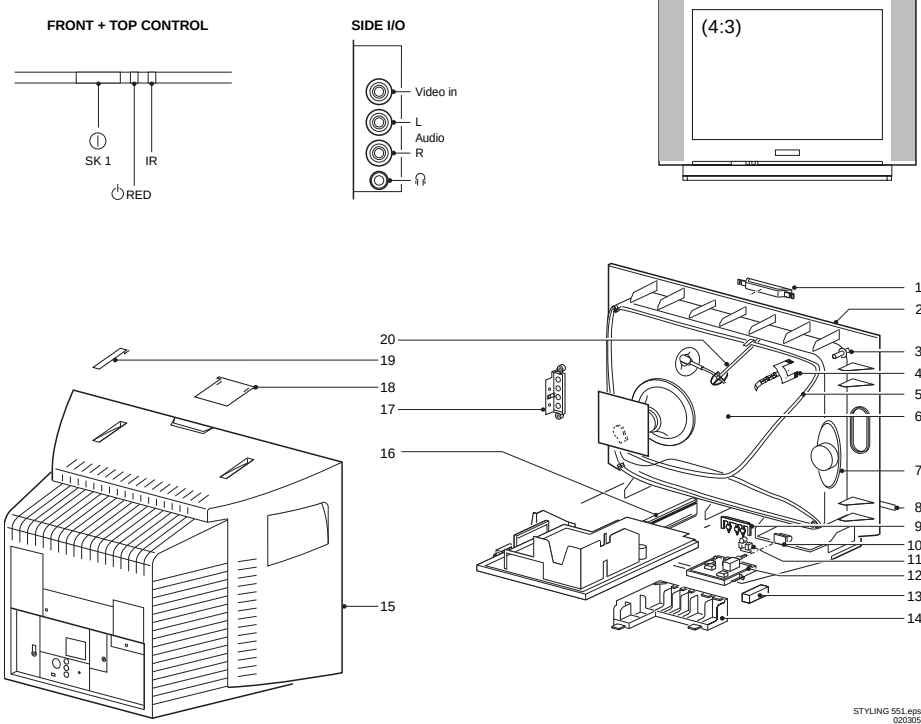
1	0139 060 20770	Stand
2	9051 101 41960	Rear cover
3	3990 000 10471	Inverter
4	0703 621 12331	LCD screen QD14VL03REV01
5	Not applicable	
6	8411 200 11999	Side AV board
7	9051 001 43110	Cabinet
8	9051 081 42760	Control knobs
9	6102 066 10151	Loudspeaker 8Ω 2W/3W
	3999 170 00181	EURO adapter
	3999 170 00181	UK adapter
	6310 200 01611	Remote control
	8411 800 11999	Front control board

STYLING 547



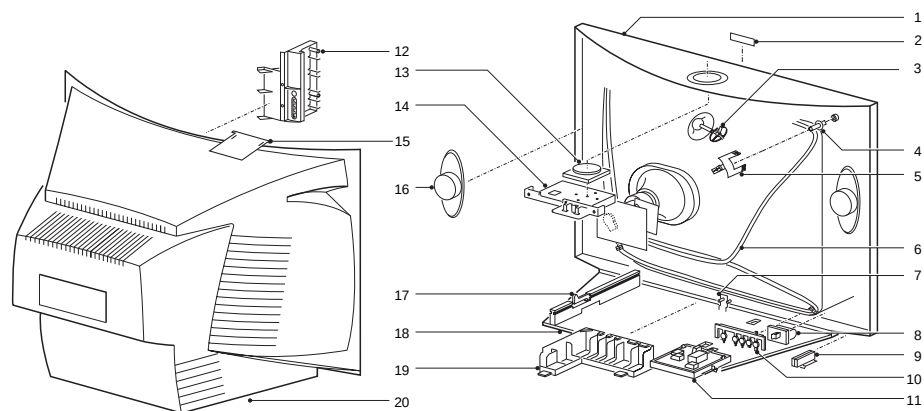
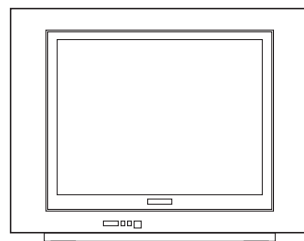
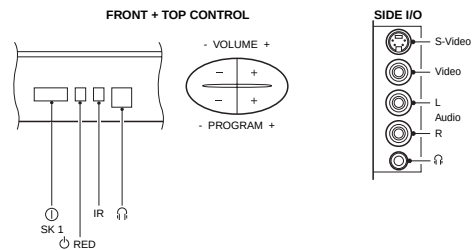
1	996500024320	DVD front panel	996500024266	Remote control
2	996500024311	DVD switch knob		
3	996500023502	Power knob spring	996500024408	Battery door silver
4	996500024319	Cabinet	313912823841	Degaussing coil 21"
5	996500024316	Function inlay	996500024318	Word mark
6	996500024313	Button		
10	996500024314	Lens		
13	996500024308	Loudspeaker 8Ω 5W		
14	996500024317	Power inlay		
15	996500024315	Power knob		
16	996500023468	Power knob spring		
17	996500024309	Power knob adapter		
18	996500024310	CRT bracket		
19	996500023469	Power cord holder		
22	996500024326	DVD bottom cover		
23	996500024372	Scart bracket		
24	996500024260	Rear cabinet		
25	996500024325	DVD upper cover		
26	996500024312	DVD front door		
27	996500024363	Terminal board bracket		
28	996500024330	Rear AV inlay		
	996500024292	Cord pad spacer		
	996500014933	CRT spacer		
	996500015608	CRT spacer		
	996500014935	Rubber pad		
	996500015148	Cable holder		
	996500024329	Side AV inlay		
	996500026496	CRT bracket		
	996500024347	Tuner UV1336I/APGS-3		

STYLING 551



1	3141 057 65961	Top control
2	3115 109 43071	Cabinet assy
2	3115 108 19801	Cabinet
3	3104 308 77012	CRT fixing screw
4	3141 054 22351	Cable tie
5	3139 128 23201	Degaussing coil 21" Multi volt- age
6	9322 196 08682	Picture tube A51LYZ095X01
7	2422 264 00379	Loudspeaker 8R 10W
8	3141 050 00301	Wordmark
10	3139 124 39211	Mains knob
11	3141 057 65651	Light guide
12	3139 124 30434	Front interface bracket
13	3122 224 04623	Mains cord relief
14	3139 124 40321	Front main bracket
15	3115 109 43081	Rear cover
16	3139 124 40331	Chassis guide HB
16	3139 124 25893	Chassis guide V0
17	3139 124 46331	Side AV bracket (3AV+HP)
18	3139 124 39161	V0 plate
20	3139 124 17541	EHT spacer
	3139 128 76091	Mains cord
	3139 228 86482	Remote control RC19042001/ 01

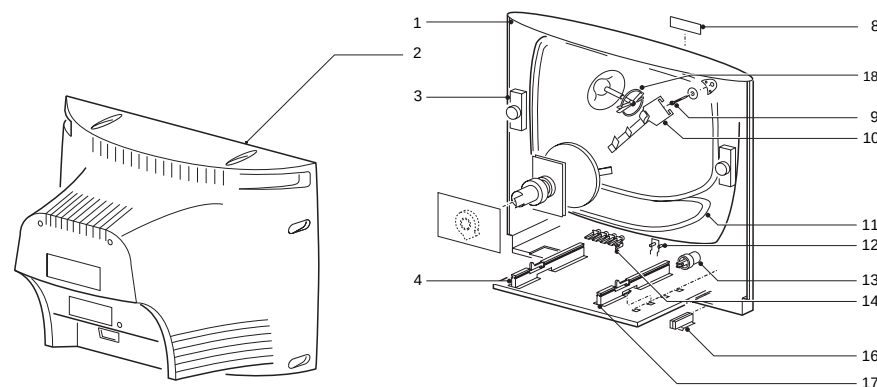
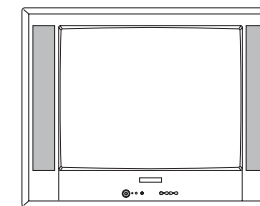
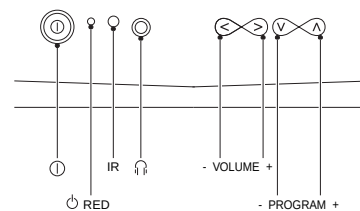
STYLING 552



STYLING 552.eps
020305

1	3115 109 42881	Cabinet
2	3141 050 00301	Wordmark
3	3139 124 17541	EHT spacer
4	3104 308 77012	CRT screw
5	3139 124 23861	Spacer
6	3139 128 23201	Degaussing coil 21" (multi volt-age)
7	3139 124 32221	Light guide
8	3141 057 81591	Mains knob
9	3122 224 04623	Mains cord relief
10	3141 057 81581	Control knob
12	3115 104 73171	Side AV bracket
15	3139 124 33341	VO plate
16	2422 264 00394	Loudspeaker 8R 5W
17	3139 124 30812	Chassis guide (V0)
20	3115 109 42891	Rear cover
	9322 196 08682	Picture tube A51LYZ095X01
	3139 128 76091	Mains cord
	3139 228 86482	Remote control RC19042001/01

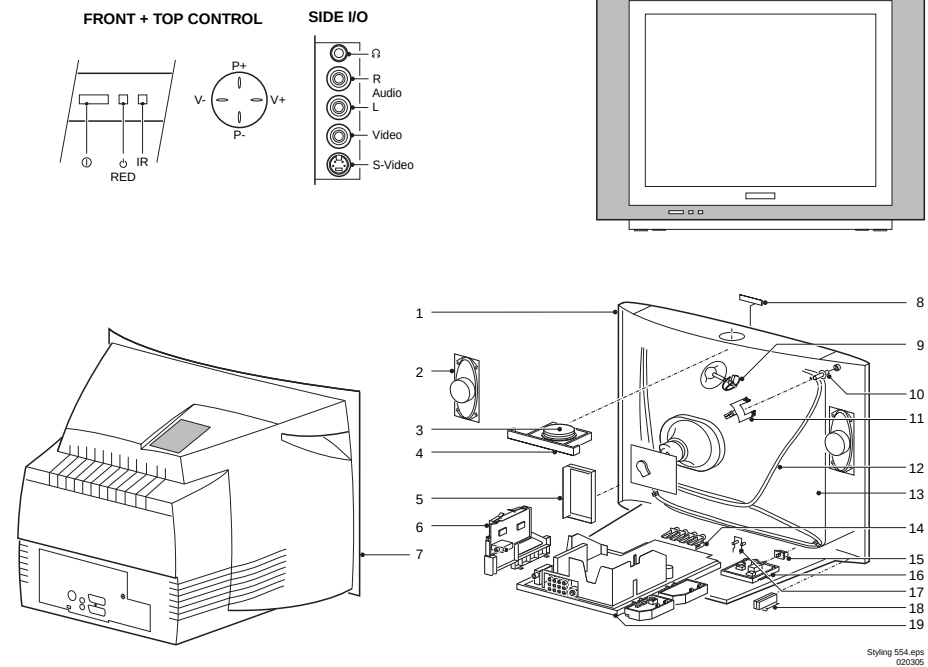
STYLING 553



STYLING 553.eps
020305

1	3115 109 42951	Cabinet
2	3115 109 42961	Rear cover
3	2422 264 00333	Loudspeaker 16Ω 5W
4	3139 124 23451	Chassis guide (HB)
8	3141 050 00301	Wordmark
9	3115 224 03451	Tube spacer
9	3139 120 41141	CRT fixing screw
10	3139 124 26261	Spacer
11	3139 128 23201	Degaussing coil
12	3139 124 26901	Light guide
13	3141 057 81631	Mains knob
14	3141 057 81621	Control knob
16	3122 224 04623	Mains cord relief
17	3139 124 23461	Chassis guide VO
18	3139 124 17541	EHT spacer
	3115 104 73781	Side AV bracket
	9322 207 01682	Picture tube A51AEZ90X45
	3139 228 86482	Remote control RC19042001/01
	2422 070 98231	Mains cord

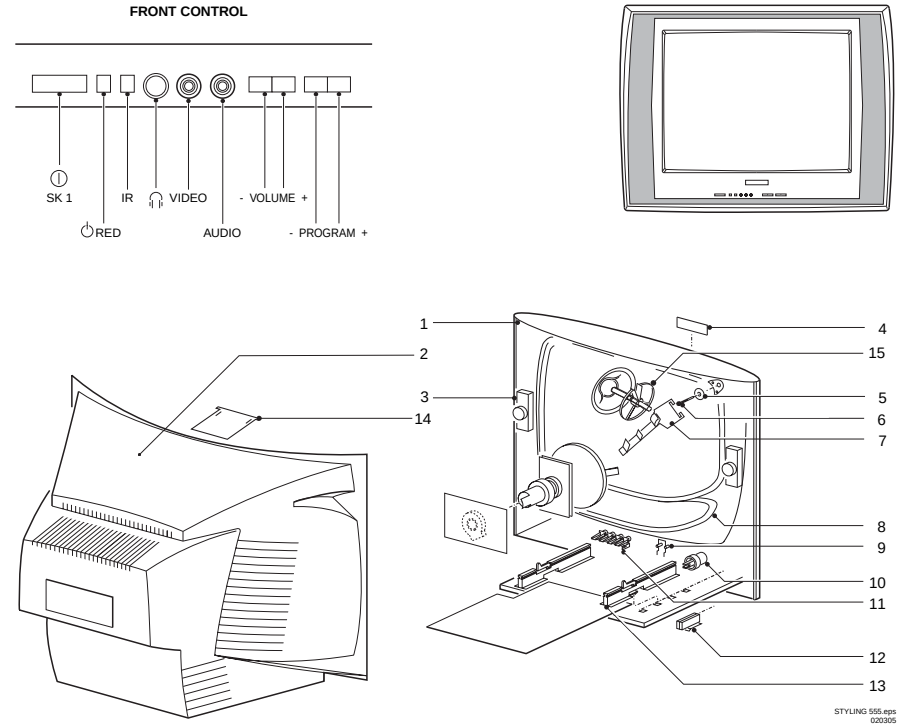
STYLING 554



1	3141 047 83121	Cabinet
2	2422 264 00379	Loudspeaker 8R 10W
3	3139 124 30391	Top control button
3+4	3139 137 66921	Top control button assy
3	3139 124 31131	Top control button cover
4	3139 124 30381	Top control bracket
5	3139 124 39541	Side AV bracket (HP+3AV)
6	not applicable	
7	3141 047 65241	Rear cover
8	3141 050 00291	Wordmark
9	3139 124 17541	EHT spacer
10	3139 124 23861	Tube spacer
10	3141 054 22011	Tube spacer
11	not applicable	
12	3139 128 23781	Degaussing coil 29" (full range)
13	9322 215 00682	Picture tube A68QCP693X1
14	not applicable	
15	3139 138 14831	Mains knob
16	3139 124 30434	Front interface bracket
17	3139 124 30411	Light guide
18	3122 224 04623	Mains cord relief
19	3139 124 33531	Chassis tray
	3139 228 86482	Remote control RC190421/01

29PT5308

STYLING 555



1	3115 109 43011	Cabinet assy
2	3115 109 43021	Rear cover
3	3115 109 43051	Loudspeaker assy
3	2422 264 00333	Loudspeaker 16Ω 5W
4	3141 050 00301	Wordmark
5	3115 104 66421	Spacer
5	3104 308 77012	CRT fixing crew
7	3141 054 22351	Cable tie
8	3139 128 23201	Degaussing coil 21" (multi volt- age)
9	3139 124 30821	Light guide
10	3141 057 81881	Mains knob
11	3141 057 81891	Control knob
12	3122 224 04623	Mainscord relief
13	3139 124 30862	Chassis guide (HB)
13	3139 124 30812	Chassis guide (V0)
14	3139 124 30851	VO plate397-13
15	3139 124 17541	EHT spacer
	9322 207 01682	Picture tube A51AEZ90X45