

Service Service Service

Supplement to manual LC4.9E AA 3122 785 15430

For manual LGE PDP panel see: 3122 785 15590

For manual FHP PDP panel see: 3122 785 14580

For manual SDI PDP panel see: 3122 785 14990

Service Manual

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1. Technical Specifications, Connections, and Chassis Overview

Index of this chapter:

- 1.1 Technical Specifications
- 1.2 Connection Overview
- 1.3 Chassis Overview

Notes:

- Figures can deviate due to the different set executions.
- Specifications are indicative (subject to change).

1.1 Technical Specifications

1.1.1 Vision

Display type	: Plasma
Screen size	: 42" (107 cm), 16:9
Resolution (HxV pixels)	: 852 x 480
Contrast ratio	:
- 42HF7443/10	: 10,000:1
Light output (cd/m ²)	: 1500
Viewing angle (HxV degrees)	: 160x160
Tuning system	: PLL
TV Colour systems	: PAL B/G, D/K, I
	: SECAM B/G, D/K, L/L'
Video playback	: PAL B/G; SECAM L/L'
	: NTSC M/N 3.58, 4.43
Supported computer formats	: VGA (640x480)
	: MAC (640x480)
	: SVGA (800x600)
	: XVGA (1024x768)
	: WXGA (1280x1024)
Supported video formats	: 640x480i - 1fH
	: 720x576i - 1fH
	: 640x480p - 2fH
	: 720x576p - 2fH
	: 852x480p - 2fH
	: 1280x720 - 3fH
	: 1920x1080i - 2fH
Presets/channels	: 125 presets
Tuner bands	: VHF
	: UHF
	: S-band
	: Hyper-band

1.1.2 Sound

Sound systems	: FM-mono
	: FM-stereo B/G
	: NICAM B/G, D/K, I, L
	: AV Stereo
Maximum power (W _{RMS})	: 2 x 15

1.1.3 Miscellaneous

Power supply:	
- Mains voltage (V _{AC})	: 220 - 240
- Mains frequency (Hz)	: 50 / 60
Ambient conditions:	
- Temperature range (°C)	: +5 to +40
- Maximum humidity	: 90% R.H.
Power consumption	
- Normal operation (W)	: ≈ 450
- Stand-by (W)	: < 2
Dimensions (WxHxD cm)	: 124x68x10.4
Weight (kg)	: 42

1.2 Connection Overview

Note: The following connector colour abbreviations are used (acc. to DIN/IEC 757): Bk= Black, Bu= Blue, Gn= Green, Gy= Grey, Rd= Red, Wh= White, and Ye= Yellow.

1.2.1 Side I/O connections

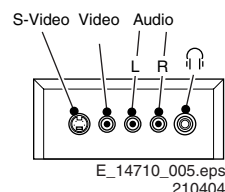


Figure 1-1 Side I/O connections

S-Video (Hosiden): Video Y/C - In

1	- Ground Y	Gnd	
2	- Ground C	Gnd	
3	- Video Y	1 V _{PP} / 75 ohm	
4	- Video C	0.3 V _{PP} / 75 ohm	

Cinch: Video CVBS - In, Audio - In

Ye	- Video CVBS	1 V _{PP} / 75 ohm	
Wh	- Audio L	0.5 V _{RMS} / 10 kohm	
Rd	- Audio R	0.5 V _{RMS} / 10 kohm	

Mini Jack: Audio Head phone - Out

Bk	- Head phone	32 - 600 ohm / 10 mW	
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1.2.2 Rear Connections

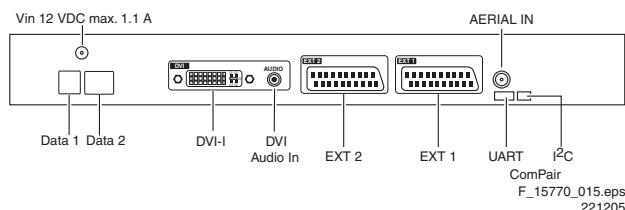


Figure 1-2 Rear I/O

Aerial - In

-	- IEC-type (EU)	Coax, 75 ohm	
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Mini Jack: Audio - In

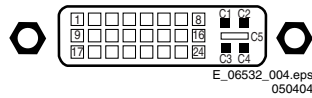
1	- Ground	Gnd	
2	- Audio L	0.5 V _{RMS} / 10 kohm	
3	- Audio R	0.5 V _{RMS} / 10 kohm	

Service connector (ComPair)

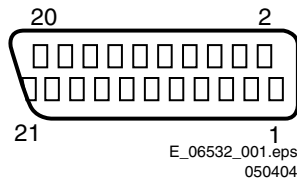
1	- SDA-S	I ² C Data (0 - 5 V)	
2	- SCL-S	I ² C Clock (0 - 5 V)	
3	- Ground	Gnd	

Service connector (UART)

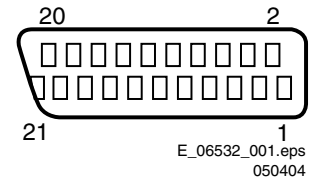
1	- UART_TX	Transmit	
2	- Ground	Gnd	
3	- UART_RX	Receive	

DVI-I: Digital/Analogue Video - In**Figure 1-3 DVI-I connector**

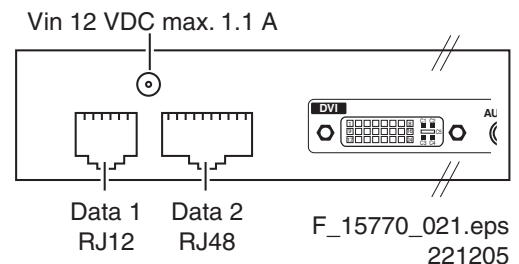
1	- D2-	
2	- D2+	
3	- Shield	Gnd
4	- D4-	
5	- D4+	
6	- DDC_SCL	DDC clock
7	- DDC_SDA	DDC data
8	- V-sync	0 - 5 V
9	- D1-	
10	- D1+	
11	- Shield	Gnd
12	- D3-	
13	- D3+	
14	- +5V	
15	- Ground	Gnd
16	- HPD	Hot Plug Detect
17	- D0-	
18	- D0+	
19	- Shield	Gnd
20	- D5-	
21	- D5+	
22	- Shield	Gnd
23	- CLK+	
24	- CLK-	
C1	- Video Red	0.7 V _{PP} / 75 ohm
C2	- Video Green	0.7 V _{PP} / 75 ohm
C3	- Video Blue	0.7 V _{PP} / 75 ohm
C4	- H-sync	0 - 5 V
C5	- Ground	Gnd

**EXT1: Video RGB - In, CVBS - In/Out, Audio - In/Out****Figure 1-4 SCART connector**

1	- Audio R	0.5 V _{RMS} / 1 kohm
2	- Audio R	0.5 V _{RMS} / 10 kohm
3	- Audio L	0.5 V _{RMS} / 1 kohm
4	- Ground Audio	Gnd
5	- Ground Blue	Gnd
6	- Audio L	0.5 V _{RMS} / 10 kohm
7	- Video Blue	0.7 V _{PP} / 75 ohm
8	- Function Select	0 - 2 V: INT 4.5 - 7 V: EXT 16:9 9.5 - 12 V: EXT 4:3
9	- Ground Green	Gnd
10	- n.c.	
11	- Video Green	0.7 V _{PP} / 75 ohm
12	- n.c.	
13	- Ground Red	Gnd
14	- Ground	Gnd
15	- Video Red	0.7 V _{PP} / 75 ohm
16	- Status/FBL	0 - 0.4 V: INT 1 - 3 V: EXT / 75 ohm
17	- Ground Video	Gnd
18	- Ground FBL	Gnd
19	- Video Terr. CVBS	1 V _{PP} / 75 ohm
20	- Video CVBS/Y	1 V _{PP} / 75 ohm
21	- Shield	Gnd

**EXT2: Video Y/C - in, CVBS - In/Out, Audio - In/Out****Figure 1-5 SCART connector**

1	- Audio R	0.5 V _{RMS} / 1 kohm
2	- Audio R	0.5 V _{RMS} / 10 kohm
3	- Audio L	0.5 V _{RMS} / 1 kohm
4	- Ground Audio	Gnd
5	- Ground Blue	Gnd
6	- Audio L	0.5 V _{RMS} / 10 kohm
7	- n.c.	
8	- Function Select	0 - 2 V: INT 4.5 - 7 V: EXT 16:9 9.5 - 12 V: EXT 4:3
9	- Ground Green	Gnd
10	- n.c.	
11	- n.c.	
12	- n.c.	
13	- Ground Red	Gnd
14	- Ground	Gnd
15	- YC/C - in	0.7 V _{PP} / 75 ohm
16	- n.c.	
17	- Ground Video	Gnd
18	- Ground	Gnd
19	- Video Mon. CVBS	1 V _{PP} / 75 ohm
20	- YC/Y - in	0.7 V _{PP} / 75 ohm
21	- Shield	Gnd

**i-Board Connections****Figure 1-6 i-BOARD connectors****RJ12: DATA1 (HM-Link - In/Out)**

1	- LED_in	< 0.3 V, active low
2	- IR_in	< 0.3 V, active low
3	- MODE	Vcc
4	- TV Power Status	4.5 to 5 V - TV "On", < 0.3 V - TV "Stdb", High impedance - TV "Off"
5	- GND	Gnd
6	- IR_out	Signal

RJ48: DATA2 (Xpress Box- In/Out)

1	- +12V	+12 V / 1 W
2	- GND	Gnd
3	- HSYN	Signal
4	- VSYN	Signal
5	- TXD232	Signal
6	- RXD232	Signal
7	- SDA3_IR-OUT	Signal
8	- DCM-POR	Signal
9	- CVBS-terr	Signal
10	- GNDA	Gnd



1.3 Chassis Overview

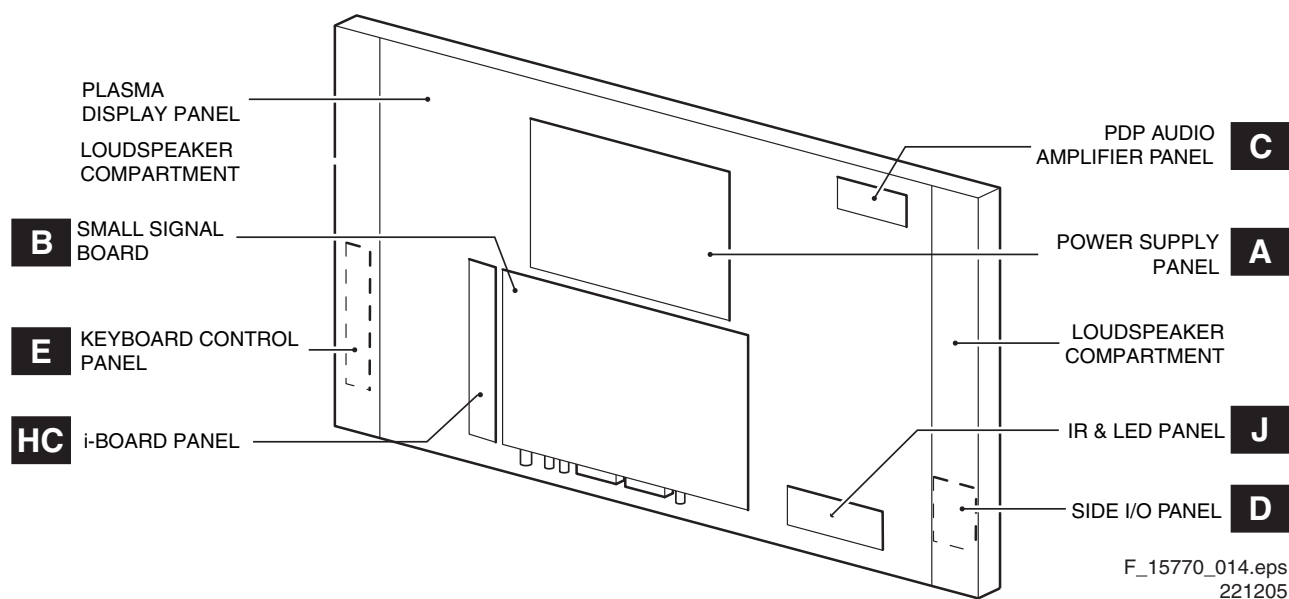


Figure 1-7 PWB locations

2. Safety Instructions, Warnings, and Notes

See the relevant chassis manual (order code on the front page)

3. Directions for Use

You can download this information from the following websites:

<http://www.philips.com/support>

<http://www.p4c.philips.com>

4. Mechanical Instructions

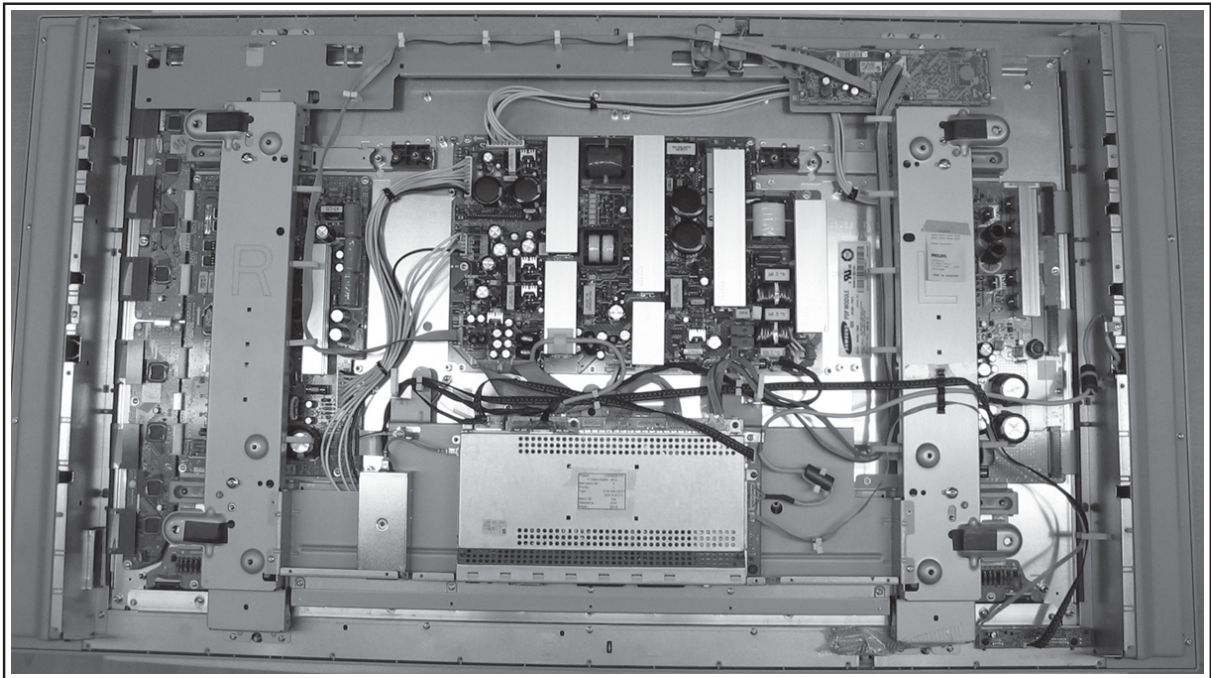
Index of this chapter:

- 4.1 Cable Dressing
- 4.2 Service Positions
- 4.3 Assy/Panel Removal
- 4.4 Set Re-assembly

Notes:

- Figures below can deviate slightly from the actual situation, due to the different set executions.
- Follow the disassembling instructions in described order.

4.1 Cable Dressing



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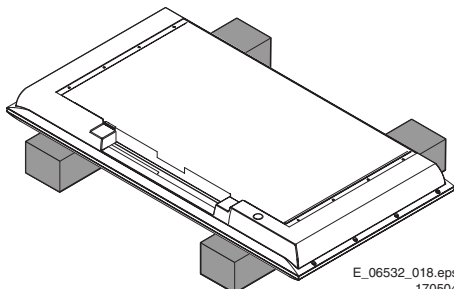
Figure 4-1 Cable dressing

4.2 Service Positions

For easy servicing of this set, there are a few possibilities created:

- The buffers from the packaging (see figure "Rear cover").
- Foam bars (created for service).
- Aluminium service stands (created for Service).

4.2.1 Foam Bars

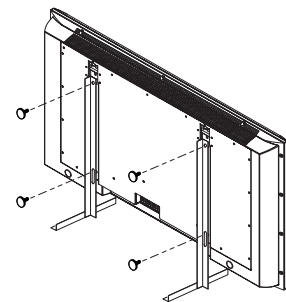


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Figure 4-2 Foam bars

The foam bars (order code 3122 785 90580 for two pieces) can be used for all types and sizes of Flat TVs. By laying the TV face down on the (ESD protective) foam bars, a stable situation is created to perform measurements and alignments. By placing a mirror under the TV, you can monitor the screen.

4.2.2 Aluminium Stands



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Figure 4-3 Aluminium stands (drawing of Mkl)

The aluminium stands (order code 3122 785 90480) can be mounted with the back cover removed or still left on. So, the stand can be used to store products or to do measurements. It is also very suitable to perform duration tests without taking much space, without having the risk of overheating, or the risk of products falling. The stands can be mounted and removed quick and easy with use of the delivered screws that can be tightened and loosened manually without the use of tools. See figure above.

Note: Only use the delivered screws to mount the monitor to the stands.

4.3 Assy/Panel Removal

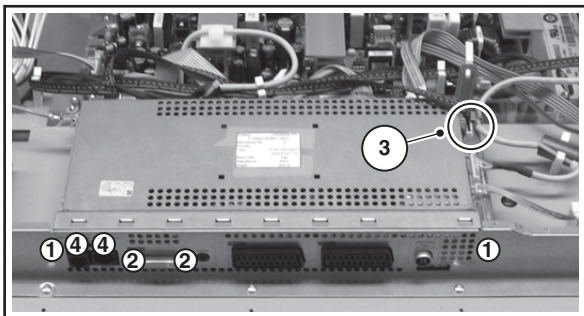
4.3.1 Metal Rear Cover

Caution: Disconnect the Mains/AC Power cord before you remove the rear cover!

1. Place the TV set upside down on a table top, using the foam bars (see part "Foam Bars").
Caution: do **not** put pressure on the display, but let the monitor lean on the speakers or the Front cover.
2. Remove all T10 screws around the edges of the metal rear cover: "parker" screws around the outer rim, "tapping" screws around the connector plate.
3. Remove the four "mushrooms" from the rear cover.
4. Lift the metal rear cover from the set. Make sure that wires and flat foils are not damaged.

4.3.2 iBoard panel

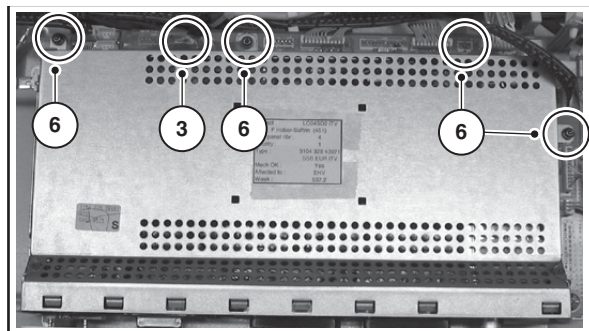
1. Remove the metal rear cover, as described above.
2. Remove screws [1] from the connector plate.
3. Remove the fixation screws [2] from the DVI connector.
4. Remove screw [3] with the cable clamp.
5. Slide the module a few centimetres away from the connector plate.
6. Hold the 12 Volt connector and remove screws [4].



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Figure 4-4 SSB shield removal 1/2

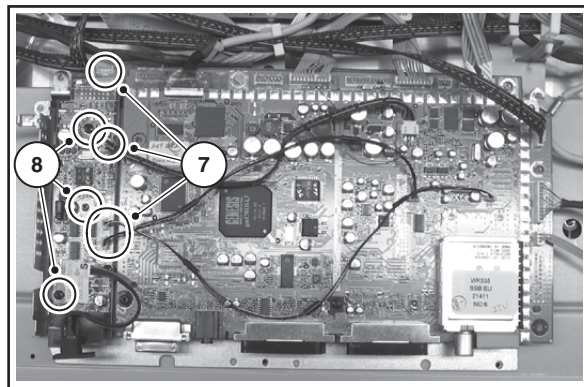
1. Carefully remove the protective tape [5] from the LVDS connector.
2. Remove the fixation screws [6] of the shield of the SSB module.
3. Lift the shield on the right hand side, slide it a few millimetres to the right, and lift it from the SSB module.



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221205

Figure 4-5 SSB shield removal 2/2

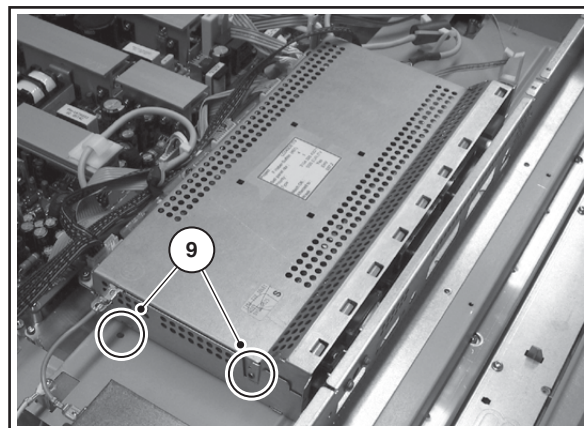
1. Now you have access to both the SSB PWB and the iBoard. Remove the connectors [7] of the iBoard.
2. Remove the fixation screws [8] of the iBoard.



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Figure 4-6 iBoard removal

1. Assemble in reverse order. When you mount the shield, make sure the 2 lips [9] slide into the slots.



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Figure 4-7 Assembling the SSB shield

4.4 Set Re-assembly

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

Notes:

- While re-assembling, make sure that all cables are placed and connected in their original positions. See Figure "Cable dressing". Be careful with the fragile LVDS cable.
- For a complete description of the panel, see the relevant chassis manual (order code on the front page).

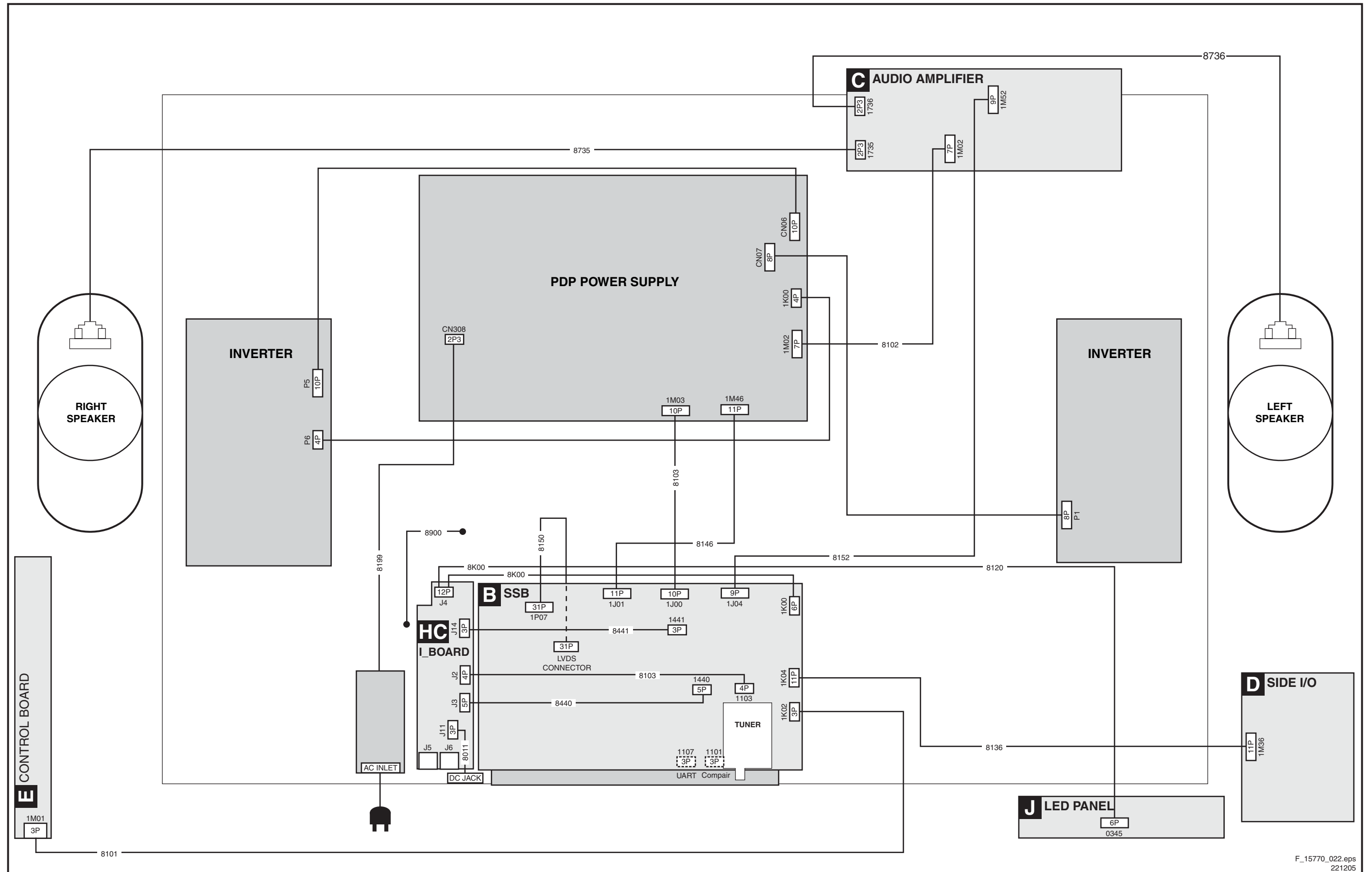
5. Service Modes, Error Codes, and Fault Finding

See the relevant chassis manual (order code on the front page)

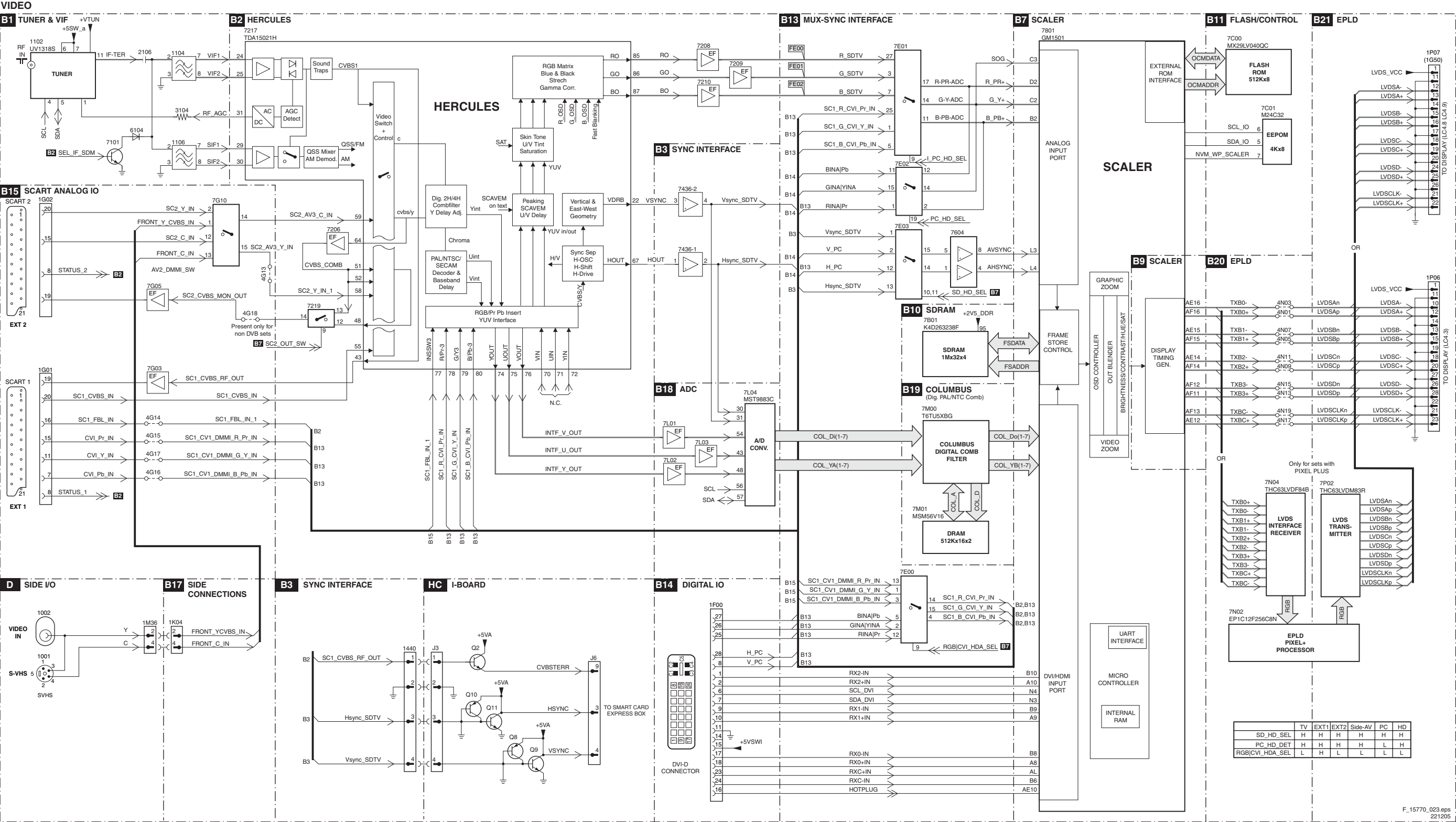
Personal Notes:

Wiring Diagram

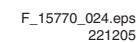
WIRING 42" SDI



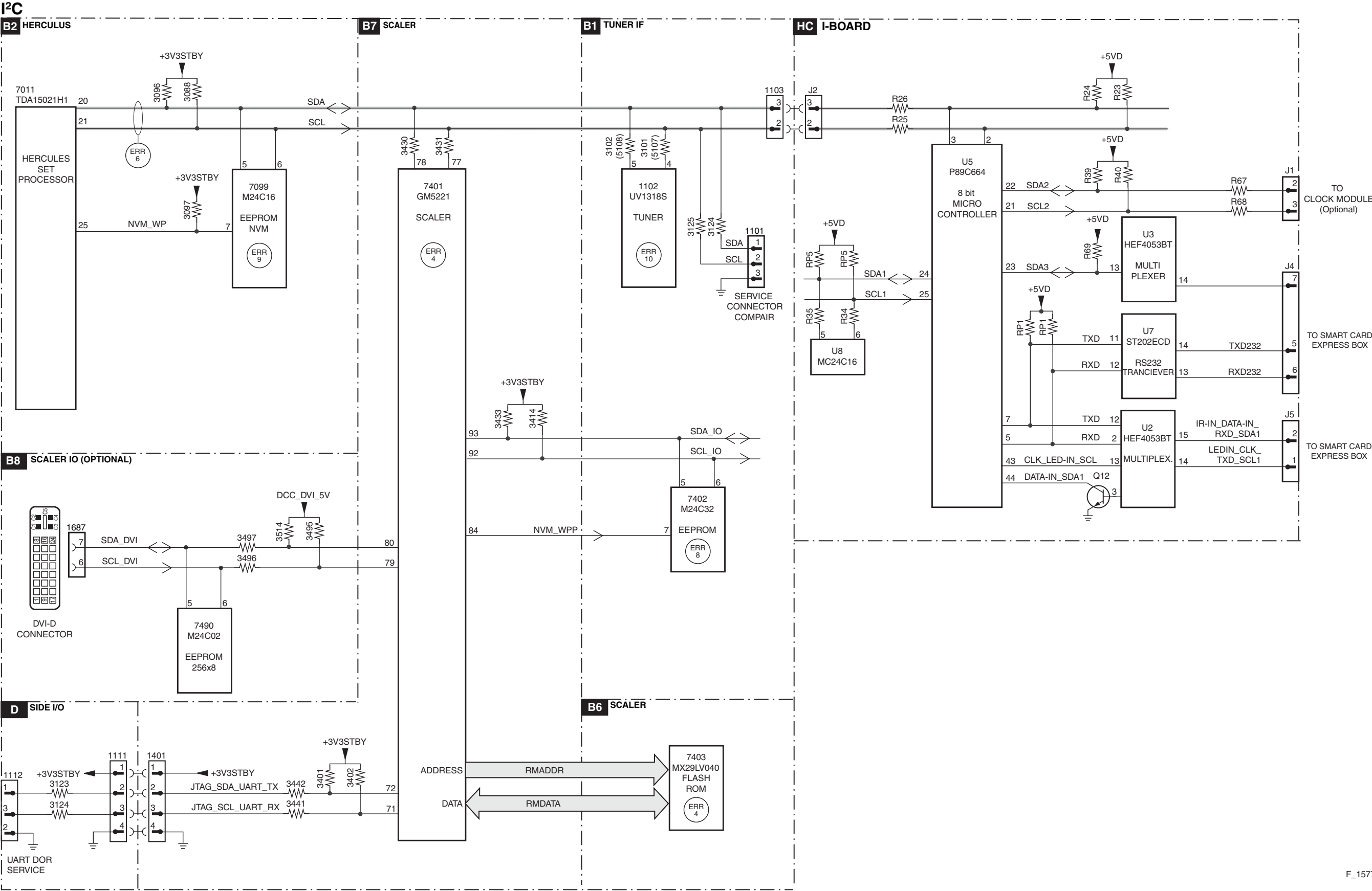
Block Diagram Video



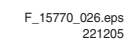
AUDIO



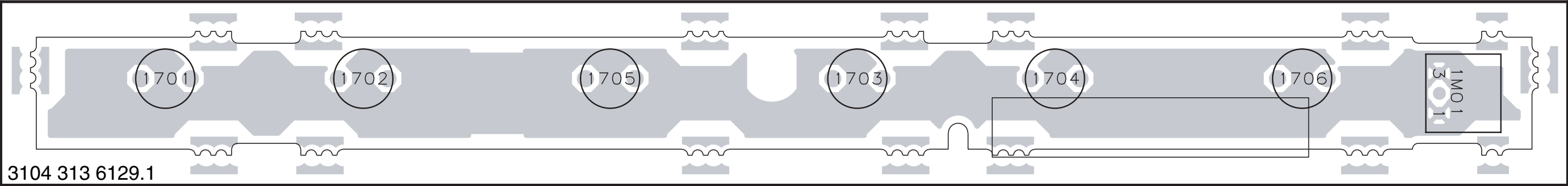
I2C IC Overview



SUPPLY LINE OVERVIEW

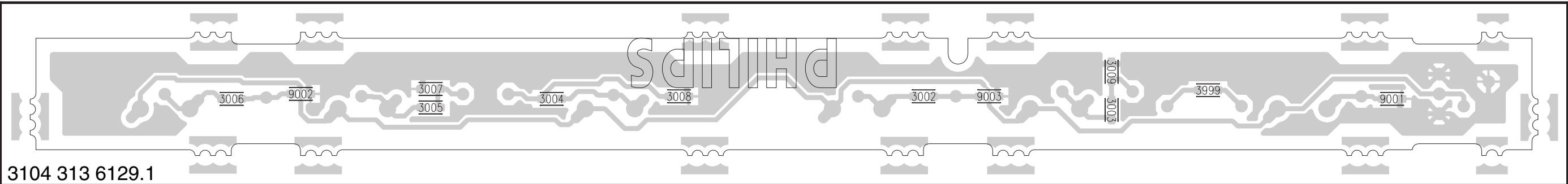


Layout Control Board (Side Control) (Top Side)



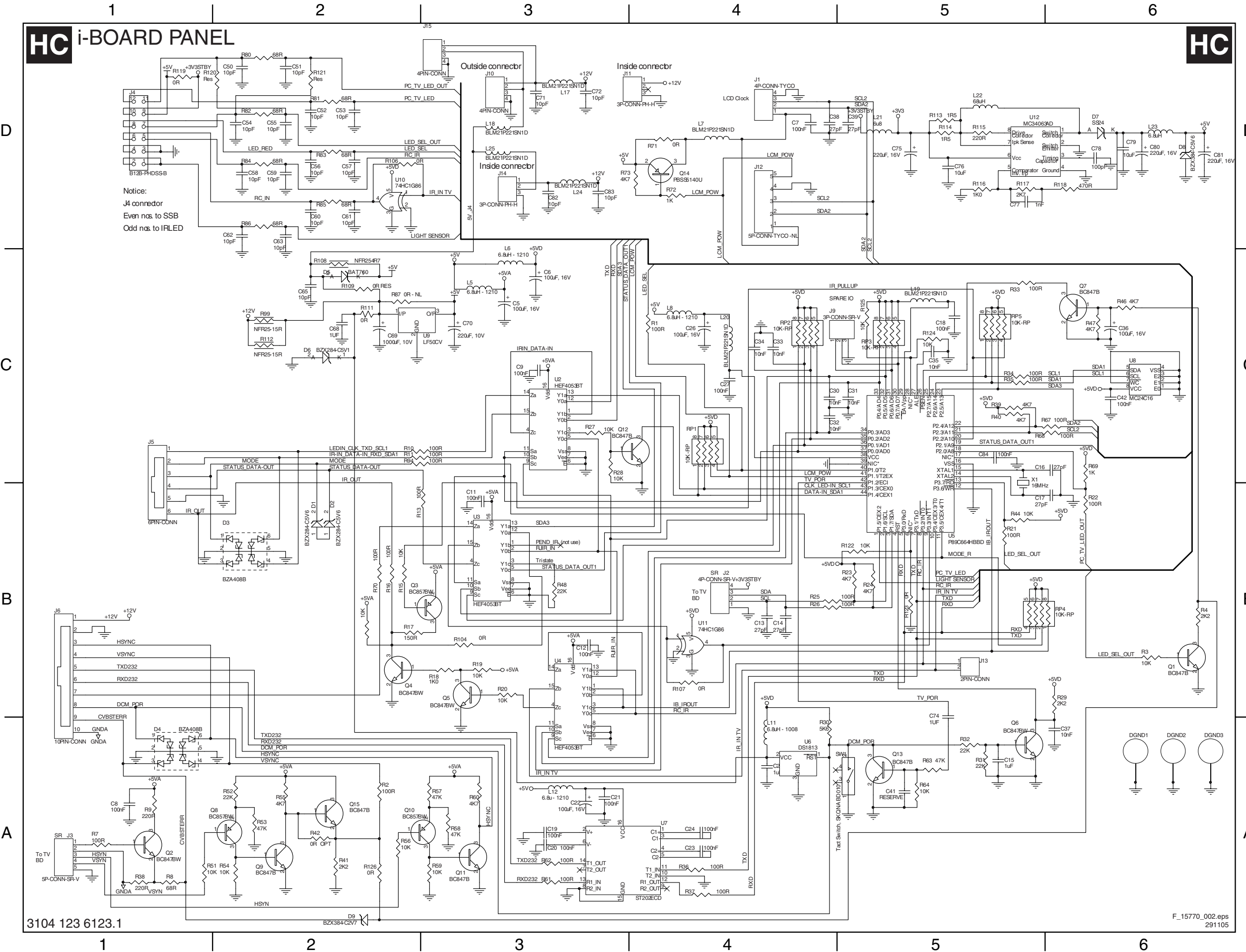
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Layout Control Board (Side Control) (Bottom Side)

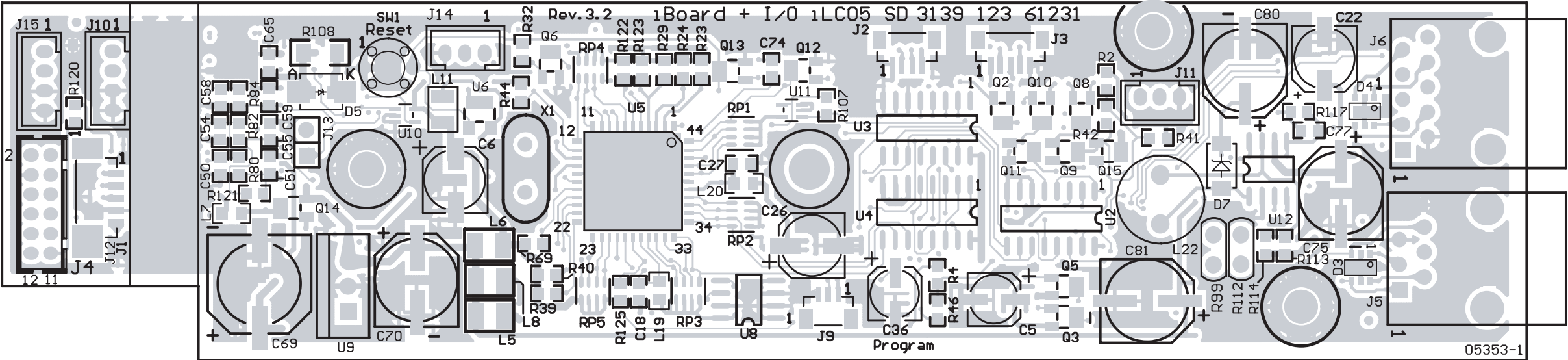


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i-Board Panel



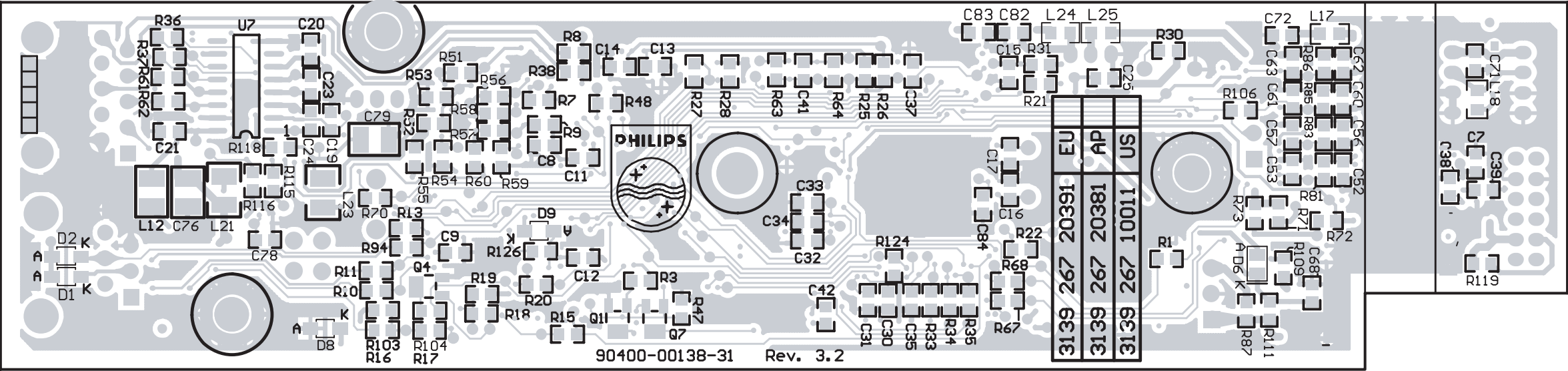
Layout i-Board Panel (Top Side)



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Layout i-Board Panel (Bottom Side)



3104 123 6123.1

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8. Alignments

Index of this chapter:

- 8.1 General Alignment Conditions
- 8.2 Hardware Alignments
- 8.3 Software Alignments

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

General: The Service Default Mode (SDM) and Service Alignment Mode (SAM) are described in chapter 5. Menu navigation is done with the Cursor Up, Down, Left or Right keys of the remote control transmitter.

8.1 General Alignment Conditions

Perform all electrical adjustments under the following conditions:

Mains voltage and frequency: 100-240 V / 50/60 Hz.

Allow the set to warm up for approximately 10 minutes.

Test probe: Ri > 10 MΩ; Ci < 2.5 pF.

8.2 Hardware Alignments

There are no hardware alignments foreseen for the plasma-TV.

8.3 Software Alignments

With the software alignments of the Service Alignment Mode (SAM) the geometry, white tone and tuner (IF) can be aligned. To store the data: Use the RC button Menu to switch to the main menu and next, switch to 'Stand-by' mode.

8.3.1 ADC Gain and Grey Scale Alignment

The table below shows a number of NVM settings used for each model of TV set. Be sure to use the correct editor in the SAM menu (NVM Editor or SC NVM Editor), because the first one is used for the Hercules NVM, and the second one for the SCALER (SC) part of the TV set. For further important NVM settings, see also the other NVM tables elsewhere in this manual.

Caution:

- **Do not change the NVM settings without understanding the function of each setting, because incorrect NVM settings may seriously hamper the correct functioning of the TV set!**
- **Do not change the Scaler NVM settings, as this will hamper the DVI functionality of the TV set!**
- **Always note down the existing NVM settings, before changing the settings. This will enable you to return to the original settings, if the new settings turn out to be incorrect.**

Table 8-1 ADC gain alignment (edit via SAM -> NVM Editor)

SDTV ADC Gain settings		
Setting	Hercules NVM Address (decimal value)	42HF7443/10
NVM_ADC_GAIN_R	006	111
NVM_ADC_GAIN_G	007	188
NVM_ADC_GAIN_B	008	119

Table 8-2 Scaler ADC settings (via SAM -> SC NVM Editor)

SDTV Greyscale settings:		
Setting	Scaler NVM Address (decimal value)	42HF7443/10
ADC_RED_OFFSET2	338	032
ADC_GRN_OFFSET2	339	030
ADC_BLU_OFFSET2	340	036
ADC_RED_GAIN	341	071
ADC_GRN_GAIN	343	075
ADC_BLU_GAIN	345	068
PC Greyscale settings		
Setting	Scaler NVM Address (decimal value)	42HF7443/10
ADC_RED_OFFSET2	325	066
ADC_GRN_OFFSET2	326	065
ADC_BLU_OFFSET2	327	068
ADC_RED_GAIN	328	219
ADC_GRN_GAIN	330	231
ADC_BLU_GAIN	332	227
HD Greyscale settings		
Setting	Scaler NVM Address (decimal value)	42HF7443/10
ADC_RED_OFFSET2	351	064
ADC_GRN_OFFSET2	352	078
ADC_BLU_OFFSET2	353	064
ADC_RED_GAIN	354	153
ADC_GRN_GAIN	356	157
ADC_BLU_GAIN	358	139

8.3.2 Options

Options OP1...OP7 in the SAM menu can be used for quickly restoring 64 features or settings of the HERCULES part of the TV set to their original default factory values (8 groups of 8 features/settings each). When the decimal value of one option byte OP1...OP7 is changed (see the first table below) then a group of 8 bits, representing 8 HERCULES options or features, is changed as well (see the second table below for a detailed description of the features or settings that are changed). The second table shows which option byte (OP1...OP7) represents which group of 8 option bits. Each bit (0...7) switches a particular HERCULES feature or setting ON or OFF, depending on its value (1 or 0).

It is also possible to change the features or settings mentioned in the second table directly at bit level, by means of the NVM Editor in the SAM menu. In the NVM Editor, first the correct NVM address (ADR) has to be entered, then the correct value (VAL, 1 or 0) for each bit (see second table), and finally the settings have to be stored (STORE). For quickly restoring the HERCULES part of the TV set to its original factory settings, however, it is more convenient to simply enter the default factory settings OP1...OP7 that are given in the first table below. How to do this, is described in the next paragraph.

How to Change an Option Byte directly

As has been explained above, an Option byte (OP) represents a number of different HERCULES options. Changing these bytes directly makes it possible to set all HERCULES options very fast. All options are controlled via seven option bytes. Select the option byte (OP1.. OP7) with the Menu Up/ Down keys, and enter the new (decimal) value. For the correct Factory Default settings, see the first table below. For more detailed information, see the second table.

Leaving the Option submenu saves the changes in the Option Byte settings. Some changes will only take effect after the set has been switched "off" and "on" with the AC power switch (cold start).

Table 8-3 Option codes OP1...OP7

Option table for quickly restoring the HERCULES to its Factory Default settings	
Model number	42HF/443/10
OP1	152
OP2	37
OP3	79
OP4	241
OP5	252
OP6	27
OP7	19
Options (can be changed only via the SAM menu)	Total decimal value for each option per model number

How to Change Options at Bit Level

If you wish to know which features or settings of the HERCULES are changed via OP1...OP7, or if you want to change each option or feature bit by bit, use the more detailed table below.

Note: the table below contains only part of the NVM settings that can be changed. A second range of settings and features can be found in Chapter 5 of this manual, in table **NVM Default values**. The settings mentioned there can only be changed via the NVM editor. For further settings, see also the table "ADC Gain and Grey scale alignment" elsewhere in this manual.

Table 8-4 Default option codes (edit via SAM - NVM Editor)

Option	Description of feature/option to be switched ON or OFF	42HF7443/10
OP1		
bit 7 (msb)	OP_PHILIPS_TUNER	1
bit 6	OP_FM_RADIO	0
bit 5	OP_LNA	0
bit 4	OP_ATS // for EU	1
bit 3	OP_ACI	1
bit 2	OP_UK_PNP	0
bit 1	OP_VIRGIN_MODE	0
bit 0 (lsb)	OP_CHINA	0
	Total DEC Value	152
	Total HEX Value	98
OP2		
bit 7 (msb)	OP_SC	0
bit 6	OP_IBEX	0
bit 5	OP_CHANNEL_NAMING	1
bit 4	OP_LTI (Lum Transcient Improvmt)	0
bit 3	OP_TILT	0
bit 2	OP_FINE_TUNING	1
bit 1	OP_PIP_PHILIPS_TUNER	0
bit 0 (lsb)	OP_HUE	1
	Total DEC Value	37
	Total HEX Value	25
OP3		
bit 7 (msb)	OP_EW_FUNCTION	0
bit 6	OP_PIXEL_PLUS	1
bit 5	OP_PIP_SPLITTER // temp	0
bit 4	OP_SPLITTER // temp	0
bit 3	OP_VIRTUAL_DOLBY	1
bit 2	OP_WIDE_SCREEN	1
bit 1	OP_WSSB	1
bit 0 (lsb)	OP_OP_ME5 // OP_ME5 - 5/6 local buttons implementation	1
	Total DEC Value	79
	Total HEX Value	4F
OP4		
bit 7 (msb)	OP_LIP_SYNC	1
bit 6	OP_HD	1
bit 5	OP_ULTRA_BASS	1
bit 4	OP_DELTA_VOLUME	1
bit 3	OP_TAIWAN_KOREA	0
bit 2	OP_VOLUME_LIMITER	0
bit 1	OP_STEREO_DBX	0
bit 0 (lsb)	OP_STEREO_NICAM_2CS	1
	Total DEC Value	241
	Total HEX Value	F1
OP5		
bit 7 (msb)	OP_AV1	1
bit 6	OP_AV2	1
bit 5	OP_AV3	1
bit 4	OP_CVI	1
bit 3	OP_SVHS2	1
bit 2	OP_SVHS3	1
bit 1	OP_HOTEL_MODE	0
bit 0 (lsb)	OP_SIMPLY_FACTORY=OP_BTSC_AVSTEREO	0
	Total DEC Value	252
	Total HEX Value	FC
OP6		
bit 7 (msb)	OP_PERSONAL_ZAPPING	0
bit 6	OP_SMART_SURF	0
bit 5	OP_FMTRAP	0
bit 4	OP_COMBFILTER	1
bit 3	OP_ACTIVE_CONTROL	1
bit 2	OP_VIDEO_TEXT	0
bit 1	OP_LIGHT_SENSOR	1
bit 0 (lsb)	OP_TWIN_TEXT	1
	Total DEC Value	27
	Total HEX Value	1B
OP7		
bit 7 (msb)	OP_TIME_WIN1	0
bit 6	OP_DVB_USB = OP_MALAY	0
bit 5	OP_AMBILIGHT	0
bit 4	OP_COLUMBUS	1
bit 3	OP_DUMMY6	0
bit 2	OP_DUMMY7	0
bit 1	OP_WEST_EU	1
bit 0 (lsb)	OP_MULTI_STANDARD_EUR	1
	Total DEC Value	19
	Total HEX Value	03

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

Index of this chapter:

- 9.1 Introduction
- 9.2 Abbreviation List
- 9.3 IC Data Sheets

9.1 Introduction

The LC4.9 Plasma iTV is a Hotel TV based on the LC4.9 chassis. For a detailed circuit description, please use that specific manual (order code on front page). The iTV specific board in this chassis (i-Board) is for Service a "black box", and therefore must be replaced completely when defective (board swap).

9.2 Abbreviation List

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
1080i	1080 visible lines, interlaced
1080p	1080 visible lines, progressive scan
2CS	2 Carrier Sound (or 2 Channel Stereo)
480i	480 visible lines, interlaced
480p	480 visible lines, progressive scan
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
AFC	Automatic Frequency Control; Control signal used to tune and lock to the correct frequency
AGC	Automatic gain control (feedback) signal to the tuner. This circuit ensures a constant output amplitude regardless of the input amplitude
AM	Amplitude Modulation; A "data encoding to a carrier" method, such that the carrier amplitude is proportional to the data value
AP or A/P	Asia Pacific
AR	Aspect Ratio: 4 by 3 or 16 by 9
ASD	Automatic Standard Detection
AV	External Audio Video
B-SC1-IN	Blue SCART1/EXT1 in
B-SC2-IN	Blue SCART2/EXT2 in
B-TXT	Blue Teletext
B/G	Monochrome TV system. Sound carrier distance is 5.5 MHz. B= VHF-band, G= UHF-band
BOCMA	Bimos one Chip Mid-end Architecture: video and chroma decoder
C-FRONT	Chrominance front input
CBA	Circuit Board Assembly (also called PCB or PWB)
CL	Constant Level: audio output to connect with an external amplifier
CLUT	Colour Look-Up Table
COLUMBUS	COLOUR LUMInance Baseband Universal Subsystem. IC performing noise reduction and 2D/3D comb filtering
ComPair	Computer aided rePair. A tool for diagnosing a TV through a PC controlled interface
CSM	Customer Service Mode
CVBS	Composite Video and Blanking Signal; A single video signal that contains

CVBS-EXT	luminance, colour, and timing information CVBS signal from external source (VCR, VCD, etc.)
CVBS-INT	CVBS signal from internal Tuner
CVBS-MON	CVBS monitor signal
CVBS-TER-OUT	CVBS TERrestrial OUTput signal
DAC	Digital to Analogue Converter
DBE	Dynamic Bass Enhancement: extra low frequency amplification
DFU	Directions For Use: Owner's manual
DNR	Dynamic Noise Reduction / Digital Noise Reduction; Noise reduction feature of the set
DRAM	Dynamic RAM; dynamically refreshed RAM
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 System; A multi-channel surround sound format, similar to Dolby Digital
DVD	Digital Versatile Disc
EEPROM	Electrically Erasable and Programmable Read Only Memory
EPLD	Erasable Programmable Logic Device
EPG	Electronic Program Guide: system used by broadcasters to transmit TV guide information (= NexTVView)
EU	Europe
EXT	EXTERNAL (source), entering the set by SCART or by cinches (jacks)
FBL	Fast Blanking; DC signal accompanying RGB signals. To blank the video signal when it is returning from the right side of the screen to the left side. The video level is brought down below the black video level
FBL-SC1-IN	Fast blanking signal for SCART1 in
FBL-SC2-IN	Fast blanking signal for SCART2 in
FBL-TXT	Fast Blanking Teletext
FM	Field Memory; A memory chip that is capable of storing one or more TV picture fields / Frequency Modulation; A technique that sends data as frequency variations of a carrier signal
FMR	Radio receiver that can receive the FM Band 87.5 - 108 MHz
FRC	Frame Rate Converter
FRONT-C	Front input chrominance (SVHS)
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-SC1-IN	Green SCART1/EXT1 in
G-SC2-IN	Green SCART2/EXT2 in
G-TXT	Green teletext
H	H_sync to the module
HA	Horizontal Acquisition; horizontal sync pulse
HD	High Definition
HP	HeadPhone
I	Monochrome TV system. Sound carrier distance is 6.0 MHz. VHF- and UHF-band
I ² C	Integrated IC bus
I ² S	Integrated IC Sound bus
IC	Integrated Circuit
IF	Intermediate Frequency

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.	PWB	Printed Wiring Board (also called PCB or CBA)
IR	Infra Red	RAM	Random Access Memory
IRQ	Interrupt ReQuest	RC	Remote Control transmitter
Last Status	The settings last chosen by the customer and read and stored in RAM or in the NVM. They are called at start-up of the set to configure it according to the customer's preferences	RC5 or 6	Remote Control system 5 or 6, the signal from the remote control receiver
LATAM	LATIn America	RGB	Red, Green, and Blue colour space; The primary colour signals for TV. By mixing levels of R, G, and B, all colours (Y/C) are reproduced
LC04	Philips chassis name for LCD TV 2004 project	RGBHV	Red, Green, Blue, Horizontal sync, and Vertical sync
LCD	Liquid Crystal Display	ROM	Read Only Memory
LED	Light Emitting Diode; A semiconductor diode that emits light when a current is passed through it	SAM	Service Alignment Mode
LINE-DRIVE	Horizontal (line) deflection drive signal (for the Line transistor)	SC	SandCastle: two-level pulse derived from sync signals
L/L'	Monochrome TV system. Sound carrier distance is 6.5 MHz. L' is Band I, L is all bands except for Band I	SC-IN	SCART in
LS	LoudSpeaker	SC-OUT	SCART out
LVDS	Low Voltage Differential Signalling, data transmission system for high speed and low EMI communication.	S/C	Short Circuit
M/N	Monochrome TV system. Sound carrier distance is 4.5 MHz. M= 525 lines @ 60 Hz, N= 625 lines @ 50 Hz	SCART	Syndicat des Constructeurs d'Appareils Radiorécepteurs et Téléviseurs; This is a 21-pin connector used in EU, that carries various audio, video, and control signals (it is also called Péritel connector)
MOSFET	Metal Oxide Semiconductor Field Effect Transistor	SCL	Serial CLock Signal on I ² C bus
MPEG	Motion Pictures Experts Group. An ISO/IEC body that has given its name to an image compressing scheme for moving video	SD	Standard Definition
MSP	Multi-standard Sound Processor: ITT sound decoder	SDA	Serial DAta Signal on I ² C bus
MUTE	MUTE Line	SDRAM	Synchronous DRAM
NC	Not Connected	SECAM	SÉquence Couleur Avec Mémoire; Colour system mainly used in France and East Europe. The chroma is FM modulated and the R-Y and B-Y signals are transmitted line sequentially. Colour carriers= 4.406250 MHz and 4.250000 MHz
NICAM	Near Instantaneously Companded Audio Multiplexing; This is a digital sound system, mainly used in Europe	SIF	Sound Intermediate Frequency
NTSC	National Television Standard Committee. Colour system used mainly 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)	SMPS	Switched Mode Power Supply
NVM	Non Volatile Memory; IC containing data such as alignment values, preset stations	SND	SouND
O/C	Open Circuit	SNDL-SC1-IN	Sound left SCART1 in
ON/OFF LED	On/Off control signal for the LED	SNDL-SC1-OUT	Sound left SCART1 out
OSD	On Screen Display	SNDL-SC2-IN	Sound left SCART2 in
PAL	Phase Alternating Line. Colour system used mainly in Western Europe (colour carrier = 4.433619 MHz) and South America (colour carrier PAL M = 3.575612 MHz and PAL N = 3.582056 MHz)	SNDL-SC2-OUT	Sound left SCART2 out
PC	Personal Computer	SNDR-SC1-IN	Sound right SCART1 in
PCB	Printed Circuit Board (or PWB)	SNDR-SC1-OUT	Sound right SCART1 out
PIG	Picture In Graphic	SNDR-SC2-IN	Sound right SCART2 in
PIP	Picture In Picture	SNDR-SC2-OUT	Sound right SCART2 out
PLL	Phase Locked Loop. Used, for example, in FST tuning systems. The customer can directly provide the desired frequency	SOPS	Self Oscillating Power Supply
Progressive Scan	Scan mode where all scan lines are displayed in one frame at the same time, creating a double vertical resolution.	S/PDIF	Sony Philips Digital InterFace; This is a consumer interface used to transfer digital audio
		SRAM	Static RAM
		STBY	STandBY
		SVHS	Super Video Home System
		SW	Software or Subwoofer or Switch
		THD	Total Harmonic Distortion
		TXT	Teletext; TXT is a digital addition to analogue TV signals that contain textual and graphical information (25 rows x 40 columns). The information is transmitted within the first 25 lines during the Vertical Blank Interval (VBI)
		µP	Microprocessor
		VA	Vertical Acquisition
		VL	Variable Level out: processed audio output towards external amplifier
		VCR	Video Cassette Recorder
		VGA	Video Graphics Array; 640x480 (4:3)
		WD	Watch Dog
		WYSIWYR	What You See Is What You Record: record selection that follows main picture and sound
		XTAL	Quartz crystal
		Y	Luminance signal

Y/C	Y consists of luminance signal, blanking level and sync; C consists of chroma (colour) signal
YPbPr	This is a scaled version of the YUV colour space. Y= Luminance, Pb/Pr= Colour difference signals B-Y and R-Y, other amplitudes w.r.t. to YUV
YUV	Colour space used by the NTSC and PAL video systems. Y is the luminance and U/V are the colour difference signals

9.3 IC Data Sheets

See the relevant chassis manual (order code on the front page)

2958	3198 035 71040	100nF 10% 16V 0402	2G28	2020 552 00005	4.7µF 10% 6.3V 0603	2M19	3198 035 71040	100nF 10% 16V 0402
2959	3198 035 71040	100nF 10% 16V 0402	2G47	2238 586 59812	100nF 20% 50V 0603	2M20	3198 035 71040	100nF 10% 16V 0402
2A00	2238 586 59812	100nF 20% 50V 0603	2G55	2020 552 00005	4.7µF 10% 6.3V 0603	2M21	2020 552 00183	2.2µF 10% 6.3V 0603
2A01	2238 869 15101	100pF 5% 50V 0402	2G56	2020 552 00005	4.7µF 10% 6.3V 0603	2M22	3198 035 71040	100nF 10% 16V 0402
2A02	2238 869 15101	100pF 5% 50V 0402	2J01	4822 124 40248	10µF 20% 63V	2M23	4822 124 12095	100µF 20% 16V
2A12	2020 552 96628	10nF 10% 16V 0402	2J02	2020 552 96618	1nF 10% 50V 0402	2M24	3198 035 71040	100nF 10% 16V 0402
2A13	3198 035 71040	100nF 10% 16V 0402	2J03	2020 552 96618	1nF 10% 50V 0402	2M25	3198 035 71040	100nF 10% 16V 0402
2B01	4822 124 80151	47µF 16V	2J17	2020 552 96618	1nF 10% 50V 0402	2M26	3198 035 71040	100nF 10% 16V 0402
2B02	4822 124 11131	47µF 6.3V	2J18	2238 869 15101	100pF 5% 50V 0402	2M27	3198 035 71040	100nF 10% 16V 0402
2B03	3198 035 71040	100nF 10% 16V 0402	2J19	2238 869 15101	100pF 5% 50V 0402	2M28	3198 035 71040	100nF 10% 16V 0402
2B04	3198 035 71040	100nF 10% 16V 0402	2J21	2238 869 15101	100pF 5% 50V 0402	2M29	3198 035 71040	100nF 10% 16V 0402
2B05	3198 035 71040	100nF 10% 16V 0402	2J22	2238 869 15101	100pF 5% 50V 0402	2M30	3198 035 71040	100nF 10% 16V 0402
2B06	3198 035 71040	100nF 10% 16V 0402	2J23	2238 869 15101	100pF 5% 50V 0402	2M31	4822 124 12095	100µF 20% 16V
2B07	3198 035 71040	100nF 10% 16V 0402	2J26	2238 869 15101	100pF 5% 50V 0402	2M32	4822 124 12095	100µF 20% 16V
2B08	3198 035 71040	100nF 10% 16V 0402	2J27	2238 869 15101	100pF 5% 50V 0402	2M56	4822 124 12095	100µF 20% 16V
2B09	3198 035 71040	100nF 10% 16V 0402	2J28	2238 869 15101	100pF 5% 50V 0402	2M65	3198 035 71040	100nF 10% 16V 0402
2B10	3198 035 71040	100nF 10% 16V 0402	2J29	2238 869 15101	100pF 5% 50V 0402	2M66	4822 124 12095	100µF 20% 16V
2B11	3198 035 71040	100nF 10% 16V 0402	2J30	2020 552 96618	1nF 10% 50V 0402	2M67	3198 035 71040	100nF 10% 16V 0402
2B12	3198 035 71040	100nF 10% 16V 0402	2J31	2238 869 15101	100pF 5% 50V 0402	2M68	4822 124 12095	100µF 20% 16V
2B13	3198 035 71040	100nF 10% 16V 0402	2J35	2020 552 96618	1nF 10% 50V 0402	2N01	3198 035 71040	100nF 10% 16V 0402
2B14	3198 035 71040	100nF 10% 16V 0402	2K00	2020 552 96618	1nF 10% 50V 0402	2N02	3198 035 71040	100nF 10% 16V 0402
2B15	3198 035 71040	100nF 10% 16V 0402	2K01	2020 552 96618	1nF 10% 50V 0402	2N03	2020 552 96834	1µF 20% 6.3V 0402
2B16	3198 035 71040	100nF 10% 16V 0402	2K02	2238 869 15109	10pF 5% 50V 0402	2N04	2020 552 96618	1nF 10% 50V 0402
2B17	3198 035 71040	100nF 10% 16V 0402	2K03	2238 869 15109	10pF 5% 50V 0402	2N05	3198 035 71040	100nF 10% 16V 0402
2B18	5322 124 41945	22µF 20% 35V	2K04	2238 869 15109	10pF 5% 50V 0402	2N06	3198 035 71040	100nF 10% 16V 0402
2C00	3198 035 71040	100nF 10% 16V 0402	2K05	2238 869 15109	10pF 5% 50V 0402	2N07	3198 035 71040	100nF 10% 16V 0402
2C01	4822 124 23002	10µF 16V	2K06	2238 869 15101	100pF 5% 50V 0402	2N08	3198 035 71040	100nF 10% 16V 0402
2C02	3198 035 71040	100nF 10% 16V 0402	2K07	2238 869 15101	100pF 5% 50V 0402	2N09	3198 035 71040	100nF 10% 16V 0402
2C03	3198 035 71040	100nF 10% 16V 0402	2K08	2020 552 00183	2.2µF 10% 6.3V 0603	2N10	3198 035 71040	100nF 10% 16V 0402
2E00	2020 552 00005	4.7µF 10% 6.3V 0603	2K10	2238 869 15101	100pF 5% 50V 0402	2N11	2238 869 15101	100pF 5% 50V 0402
2E01	2020 552 00005	4.7µF 10% 6.3V 0603	2K11	2238 869 15101	100pF 5% 50V 0402	2N12	2238 869 15101	100pF 5% 50V 0402
2E02	2020 552 00005	4.7µF 10% 6.3V 0603	2K12	2020 552 00183	2.2µF 10% 6.3V 0603	2N13	2238 869 15101	100pF 5% 50V 0402
2E03	3198 035 71040	100nF 10% 16V 0402	2K13	2238 869 15101	100pF 5% 50V 0402	2N14	2238 869 15101	100pF 5% 50V 0402
2E04	2020 552 96834	1µF 20% 6.3V 0402	2K14	2238 869 15101	100pF 5% 50V 0402	2N15	2238 869 15101	100pF 5% 50V 0402
2E05	2020 552 96834	1µF 20% 6.3V 0402	2K16	2238 869 15101	100pF 5% 50V 0402	2N16	2238 869 15101	100pF 5% 50V 0402
2E06	2020 552 96834	1µF 20% 6.3V 0402	2K17	2238 869 15101	100pF 5% 50V 0402	2P01	2020 552 00183	2.2µF 10% 6.3V 0603
2E07	4822 126 14324	33pF 5% 50V 0402	2K18	2238 869 15101	100pF 5% 50V 0402	2P02	3198 035 71040	100nF 10% 16V 0402
2E08	2020 552 00005	4.7µF 10% 6.3V 0603	2K19	2020 552 96618	1nF 10% 50V 0402	2P03	3198 035 71040	100nF 10% 16V 0402
2E09	4822 126 14324	33pF 5% 50V 0402	2K20	2020 552 96618	1nF 10% 50V 0402	2P04	3198 035 71040	100nF 10% 16V 0402
2E10	2020 552 00005	4.7µF 10% 6.3V 0603	2K21	2238 869 15101	100pF 5% 50V 0402	2P05	3198 035 71040	100nF 10% 16V 0402
2E11	4822 126 14324	33pF 5% 50V 0402	2K22	2238 869 15101	100pF 5% 50V 0402	2P06	3198 035 71040	100nF 10% 16V 0402
2E12	2020 552 00005	4.7µF 10% 6.3V 0603	2K23	2238 869 15101	100pF 5% 50V 0402	2P07	3198 035 71040	100nF 10% 16V 0402
2E13	3198 017 41050	1µF 10V 0603	2K24	2238 869 15101	100pF 5% 50V 0402	2P08	3198 035 71040	100nF 10% 16V 0402
2E14	4822 126 14324	33pF 5% 50V 0402	2K25	2238 869 15101	100pF 5% 50V 0402	2P09	3198 035 71040	100nF 10% 16V 0402
2E15	3198 035 71040	100nF 10% 16V 0402	2K26	2238 869 15101	100pF 5% 50V 0402	2P10	3198 035 71040	100nF 10% 16V 0402
2E16	3198 035 71040	100nF 10% 16V 0402	2K27	2238 869 15101	100pF 5% 50V 0402	2P11	3198 035 71040	100nF 10% 16V 0402
2E17	3198 035 71040	100nF 10% 16V 0402	2K28	2238 869 15101	100pF 5% 50V 0402	2P12	3198 035 71040	100nF 10% 16V 0402
2E18	3198 035 71040	100nF 10% 16V 0402	2L02	2020 552 96637	10µF 10% 6.3V 0805	2P13	3198 035 71040	100nF 10% 16V 0402
2E19	3198 035 71040	100nF 10% 16V 0402	2L03	3198 035 71040	100nF 10% 16V 0402	2P14	3198 035 71040	100nF 10% 16V 0402
2E20	4822 124 11131	47µF 6.3V	2L04	3198 035 71040	100nF 10% 16V 0402	2P15	4822 124 12095	100µF 20% 16V
2E21	2020 552 00005	4.7µF 10% 6.3V 0603	2L05	3198 035 71040	100nF 10% 16V 0402	2P16	3198 035 71040	100nF 10% 16V 0402
2E22	2020 552 00005	4.7µF 10% 6.3V 0603	2L06	3198 035 71040	100nF 10% 16V 0402	2P17	2020 552 00183	2.2µF 10% 6.3V 0603
2E23	2020 552 00005	4.7µF 10% 6.3V 0603	2L07	2020 552 96637	10µF 10% 6.3V 0805	2P18	2020 552 00183	2.2µF 10% 6.3V 0603
2E24	3198 035 71040	100nF 10% 16V 0402	2L08	3198 035 71040	100nF 10% 16V 0402	2P19	3198 035 71040	100nF 10% 16V 0402
2E25	3198 035 71040	100nF 10% 16V 0402	2L09	3198 035 71040	100nF 10% 16V 0402	2P20	3198 035 71040	100nF 10% 16V 0402
2E26	3198 035 71040	100nF 10% 16V 0402	2L10	3198 035 71040	100nF 10% 16V 0402	2P21	3198 035 71040	100nF 10% 16V 0402
2E27	3198 035 71040	100nF 10% 16V 0402	2L11	3198 035 71040	100nF 10% 16V 0402	2P22	2020 552 00183	2.2µF 10% 6.3V 0603
2E28	3198 035 71040	100nF 10% 16V 0402	2L13	3198 035 74730	47nF 5% 16V 0402	2P23	3198 035 71040	100nF 10% 16V 0402
2E29	3198 035 71040	100nF 10% 16V 0402	2L17	3198 035 74730	47nF 5% 16V 0402	2P24	3198 035 71040	100nF 10% 16V 0402
2E30	3198 035 71040	100nF 10% 16V 0402	2L20	3198 035 71040	100nF 10% 16V 0402	2P25	3198 035 71040	100nF 10% 16V 0402
2E31	3198 035 71040	100nF 10% 16V 0402	2L21	3198 035 71040	100nF 10% 16V 0402	2P26	3198 035 71040	100nF 10% 16V 0402
2E32	3198 035 71040	100nF 10% 16V 0402	2L22	2020 552 96637	10µF 10% 6.3V 0805	2P27	3198 035 71040	100nF 10% 16V 0402
2E33	2020 552 00005	4.7µF 10% 6.3V 0603	2L23	3198 035 71040	100nF 10% 16V 0402	2P28	3198 035 71040	100nF 10% 16V 0402
2E34	2020 552 00005	4.7µF 10% 6.3V 0603	2L24	3198 035 71040	100nF 10% 16V 0402	2P29	3198 035 71040	100nF 10% 16V 0402
2E35	2020 552 00005	4.7µF 10% 6.3V 0603	2L26	2020 552 96718	220nF 10% 6.3V 0402	2P30	3198 035 71040	100nF 10% 16V 0402
2E36	3198 035 71040	100nF 10% 16V 0402	2L27	4822 124 23002	10µF 16V	2P31	3198 035 71040	100nF 10% 16V 0402
2F04	2020 552 94427	100pF 5% 50V	2L28	4822 124 23002	10µF 16V	2P32	3198 035 71040	100nF 10% 16V 0402
2F07	2238 586 59812	100nF 20% 50V 0603	2L29	4822 124 23002	10µF 16V	2P33	3198 035 71040	100nF 10% 16V 0402
2F08	4822 126 14241	330pF 0603 50V	2L30	4822 124 23002	10µF 16V	2P34	3198 035 71040	100nF 10% 16V 0402
2F09	4822 126 14241	330pF 0603 50V	2L31	4822 124 12095	100µF 20% 16V	2P35	3198 035 71040	100nF 10% 16V 0402
2F10	2020 552 94427	100pF 5% 50V	2L32	4822 124 12095	100µF 20% 16V	2P36	2238 869 15109	10pF 5% 50V 0402
2F11	4822 126 14241	330pF 0603 50V	2L33	3198 035 71040	100nF 10% 16V 0402	2P37	2238 869 15109	10pF 5% 50V 0402
2F12	4822 126 14241	330pF 0603 50V	2L34	3198 035 71040	100nF 10% 16V 0402	2P38	2238 869 15109	10pF 5% 50V 0402
2F13	4822 126 14508	180pF 5% 50V 0603	2L37	4822 126 14524	68pF 5% 50V 0402	2P39	2238 869 15109	10pF 5% 50V 0402
2F14	4822 126 14508	180pF 5% 50V 0603	2L39	2238 869 15829	82pF 5% 50V 0402	2P40	2238 869 15109	10pF 5% 50V 0402
2F15	2020 552 00183	2.2µF 10% 6.3V 0603	2M00	3198 035 71040	100nF 10% 16V 0402	2P41	2238 869 15109	10pF 5% 50V 0402
2F16	2020 552 00183	2.2µF 10% 6.3V 0603	2M01	3198 035 71040	100nF 10% 16V 0402	2P42	2238 869 15109	10pF 5% 50V 0402
2G05	4822 126 14241	330pF 0603 50V	2M02	3198 035 71040	100nF 10% 16V 0402	2P43	2238 869 15109	10pF 5% 50V 0402
2G06	4822 126 14508	180pF 5% 50V 0603	2M03	3198 035 71040	100nF 10% 16V 0402	2P44	2238 869 15109	10pF 5% 50V 040

3120	4822 117 13606	10kΩ 5% 0.01W 0402	3611	4822 117 11297	100kΩ 5% 0.1W	3C08	3198 031 11030	4 x 10kΩ 5% 1206
3121	4822 117 13606	10kΩ 5% 0.01W 0402	3612	4822 117 13601	22kΩ 5% 0402	3C09	3198 031 11030	4 x 10kΩ 5% 1206
3122	4822 117 13545	100Ω 1% 0402	3616	4822 117 13548	1kΩ 5% 0402	3C10	3198 031 11030	4 x 10kΩ 5% 1206
3123	4822 117 13545	100Ω 1% 0402	3617	4822 117 13548	1kΩ 5% 0402	3C16	3198 031 11030	4 x 10kΩ 5% 1206
3124	4822 117 13545	100Ω 1% 0402	3619	4822 117 13606	10kΩ 5% 0.01W 0402	3C17	4822 117 13606	10kΩ 5% 0.01W 0402
3125	4822 117 13545	100Ω 1% 0402	3620	4822 117 13606	10kΩ 5% 0.01W 0402	3C18	4822 117 13606	10kΩ 5% 0.01W 0402
3126	4822 117 13545	100Ω 1% 0402	3628	4822 117 13606	10kΩ 5% 0.01W 0402	3E00	2322 705 70569	56Ω 5% 0402
3127	4822 117 13545	100Ω 1% 0402	3629	4822 117 13601	22kΩ 5% 0402	3E01	2322 705 70569	56Ω 5% 0402
3207	3198 031 06810	680Ω 5% 0.01W 0402	3630	4822 117 13602	2.2kΩ 5% 0.01W 0402	3E02	2322 705 70569	56Ω 5% 0402
3208	4822 117 13545	100Ω 1% 0402	3631	4822 117 13602	2.2kΩ 5% 0.01W 0402	3E06	3198 031 04730	47Ω 5% 0402
3209	4822 117 13545	100Ω 1% 0402	3632	2322 705 70569	56Ω 5% 0402	3E07	3198 031 04730	47Ω 5% 0402
3210	4822 117 13545	100Ω 1% 0402	3633	2322 705 70569	56Ω 5% 0402	3E08	3198 031 04730	47Ω 5% 0402
3211	4822 117 13545	100Ω 1% 0402	3708	4822 117 13606	10kΩ 5% 0.01W 0402	3E09	3198 031 04730	47Ω 5% 0402
3212	4822 117 13545	100Ω 1% 0402	3709	3198 031 06820	6.8kΩ 5% 0.01W 0402	3E10	3198 031 04730	47Ω 5% 0402
3213	4822 117 13545	100Ω 1% 0402	3712	5322 117 13031	5.6kΩ 1% 0.063W 0603	3E11	3198 031 04730	47Ω 5% 0402
3214	3198 031 06810	680Ω 5% 0.01W 0402	3713	2322 704 63302	3.3kΩ 1% 0603	3E12	4822 117 13606	10kΩ 5% 0.01W 0402
3215	3198 031 02710	270Ω 5% 0.1W 0402	3716	3198 031 04720	4.7kΩ 5% 0402	3E13	4822 117 13597	330Ω 5% 0.01W 0402
3216	4822 117 13597	330Ω 5% 0.01W 0402	3732	2322 704 61002	1kΩ 1%	3E14	4822 117 13597	330Ω 5% 0.01W 0402
3217	4822 117 13548	1kΩ 5% 0402	3733	2322 704 63302	3.3kΩ 1% 0603	3E15	4822 117 13597	330Ω 5% 0.01W 0402
3218	4822 117 11297	100kΩ 5% 0.1W	3734	4822 117 13602	2.2kΩ 5% 0.01W 0402	3E16	4822 117 13597	330Ω 5% 0.01W 0402
3219	4822 117 13545	100Ω 1% 0402	3735	4822 117 13548	1kΩ 5% 0402	3E17	4822 117 13597	330Ω 5% 0.01W 0402
3220	3198 031 04730	47Ω 5% 0402	3736	3198 031 04720	4.7kΩ 5% 0402	3E18	4822 117 13597	330Ω 5% 0.01W 0402
3222	4822 117 13545	100Ω 1% 0402	3740	3198 031 01520	1.2kΩ 5% 0.01W 0402	3E19	2322 705 70569	56Ω 5% 0402
3223	3198 031 01090	10Ω 5% 0.01W 0402	3741	3198 031 01520	1.2kΩ 5% 0.01W 0402	3E20	2322 705 70569	56Ω 5% 0402
3224	3198 031 04720	4.7kΩ 5% 0402	3742	3198 031 01530	15kΩ 5% 0.01W 0402	3E21	2322 705 70569	56Ω 5% 0402
3225	3198 031 04720	4.7kΩ 5% 0402	3743	4822 117 13601	22kΩ 5% 0402	3E22	4822 117 13632	100kΩ 1% 0603 0.62W
3226	4822 117 13545	100Ω 1% 0402	3750	4822 117 13601	22kΩ 5% 0402	3E23	3198 031 08210	820Ω 5% 0.5W
3227	4822 117 13545	100Ω 1% 0402	3751	3198 021 31080	1Ω 5% 0603	3E24	4822 117 13543	470Ω 5% 0402
3229	3198 031 04720	4.7kΩ 5% 0402	3752	3198 021 31080	1Ω 5% 0603	3E25	2322 705 70399	39Ω 5% 0402
3230	4822 117 13606	10kΩ 5% 0.01W 0402	3753	2322 704 61002	1kΩ 1%	3E26	3198 031 02290	22Ω 5% 0.1W 0402
3231	4822 117 13602	2.2kΩ 5% 0.01W 0402	3754	2322 704 63302	3.3kΩ 1% 0603	3E27	2322 705 70399	39Ω 5% 0402
3232	3198 031 03320	3.3kΩ 5% 0402	3759	3198 031 01230	12kΩ 5% 0402	3E28	3198 031 02290	22Ω 5% 0.1W 0402
3233	3198 031 03320	3.3kΩ 5% 0402	3761	4822 117 13545	100Ω 1% 0402	3E29	2322 705 70399	39Ω 5% 0402
3234	3198 031 04720	4.7kΩ 5% 0402	3800	4822 117 13606	10kΩ 5% 0.01W 0402	3E30	3198 031 02290	22Ω 5% 0.1W 0402
3235	3198 031 04720	4.7kΩ 5% 0402	3801	2350 035 10229	4 x 22Ω 5% 1206	3E31	4822 117 13545	100Ω 1% 0402
3236	3198 031 04720	4.7kΩ 5% 0402	3802	2350 035 10229	4 x 22Ω 5% 1206	3E32	4822 117 13545	100Ω 1% 0402
3238	4822 117 13545	100Ω 1% 0402	3803	2350 035 10229	4 x 22Ω 5% 1206	3E33	4822 117 13545	100Ω 1% 0402
3239	4822 117 13545	100Ω 1% 0402	3804	2350 035 10229	4 x 22Ω 5% 1206	3E34	4822 117 13545	100Ω 1% 0402
3240	2322 704 61002	1kΩ 1%	3805	2350 035 10229	4 x 22Ω 5% 1206	3E35	4822 117 13545	100Ω 1% 0402
3241	4822 117 13545	100Ω 1% 0402	3806	2350 035 10229	4 x 22Ω 5% 1206	3E36	4822 117 13545	100Ω 1% 0402
3242	4822 117 13606	10kΩ 5% 0.01W 0402	3807	2350 035 10229	4 x 22Ω 5% 1206	3E37	3198 031 02290	22Ω 5% 0.1W 0402
3243	3198 031 04720	4.7kΩ 5% 0402	3808	2350 035 10229	4 x 22Ω 5% 1206	3E38	4822 117 13545	100Ω 1% 0402
3245	3198 031 02240	220kΩ 5% 0.1W 0402	3809	2350 035 10229	4 x 22Ω 5% 1206	3E39	4822 117 13545	100Ω 1% 0402
3246	3198 031 04720	4.7kΩ 5% 0402	3810	2350 035 10229	4 x 22Ω 5% 1206	3E41	4822 117 13545	100Ω 1% 0402
3247	4822 117 13545	100Ω 1% 0402	3811	2350 035 10229	4 x 22Ω 5% 1206	3E42	4822 117 13545	100Ω 1% 0402
3248	4822 117 13545	100Ω 1% 0402	3812	2350 035 10229	4 x 22Ω 5% 1206	3E43	4822 117 13545	100Ω 1% 0402
3249	3198 031 04720	4.7kΩ 5% 0402	3813	2350 035 10229	4 x 22Ω 5% 1206	3E44	4822 117 13545	100Ω 1% 0402
3250	4822 117 13545	100Ω 1% 0402	3814	3198 031 02290	22Ω 5% 0.1W 0402	3E45	4822 117 13545	100Ω 1% 0402
3251	4822 117 13545	100Ω 1% 0402	3815	3198 031 02290	22Ω 5% 0.1W 0402	3E49	3198 031 02290	22Ω 5% 0.1W 0402
3252	4822 117 13545	100Ω 1% 0402	3816	3198 031 02290	22Ω 5% 0.1W 0402	3E50	3198 031 04730	47Ω 5% 0402
3253	4822 117 13545	100Ω 1% 0402	3817	4822 117 13606	10kΩ 5% 0.01W 0402	3E51	3198 031 04730	47Ω 5% 0402
3255	4822 117 13605	Jumper 0402	3818	4822 117 13606	10kΩ 5% 0.01W 0402	3E52	3198 031 04730	47Ω 5% 0402
3256	4822 117 13605	Jumper 0402	3820	4822 117 13606	10kΩ 5% 0.01W 0402	3E53	3198 031 04730	47Ω 5% 0402
3257	4822 117 13605	Jumper 0402	3822	4822 117 13545	100Ω 1% 0402	3E54	3198 031 04730	47Ω 5% 0402
3258	4822 117 13548	1kΩ 5% 0402	3824	3198 031 03320	3.3kΩ 5% 0402	3E55	3198 031 04730	47Ω 5% 0402
3259	4822 117 13548	1kΩ 5% 0402	3825	3198 031 11030	4 x 10kΩ 5% 1206	3F00	4822 051 30759	75Ω 5% 0.062W
3260	4822 117 13548	1kΩ 5% 0402	3826	3198 031 11030	4 x 10kΩ 5% 1206	3F09	4822 051 30759	75Ω 5% 0.062W
3262	4822 117 13601	22kΩ 5% 0402	3827	4822 117 13606	10kΩ 5% 0.01W 0402	3F10	3198 021 31080	1Ω 5% 0603
3263	2322 702 70398	3.9Ω 5% 0603	3828	4822 117 13606	10kΩ 5% 0.01W 0402	3F11	4822 051 30759	75Ω 5% 0.062W
3264	4822 117 13601	22kΩ 5% 0402	3829	4822 117 13606	10kΩ 5% 0.01W 0402	3F16	4822 051 30103	10kΩ 5% 0.062W
3265	2322 702 70398	3.9Ω 5% 0603	3831	4822 117 13545	100Ω 1% 0402	3F17	4822 051 30103	10kΩ 5% 0.062W
3266	3198 031 05620	5.6kΩ 5% 0.01W 0402	3832	4822 117 13545	100Ω 1% 0402	3F18	4822 051 30103	10kΩ 5% 0.062W
3267	3198 031 05620	5.6kΩ 5% 0.01W 0402	3833	3198 031 01090	10Ω 5% 0.01W 0402	3F19	3198 021 31080	1Ω 5% 0603
3268	4822 117 13545	100Ω 1% 0402	3834	4822 117 13606	10kΩ 5% 0.01W 0402	3F20	4822 051 30101	100Ω 5% 0.062W
3272	3198 031 04720	4.7kΩ 5% 0402	3835	4822 117 13606	10kΩ 5% 0.01W 0402	3F21	4822 051 30102	1kΩ 5% 0.062W
3273	4822 117 13548	1kΩ 5% 0402	3836	4822 117 13606	10kΩ 5% 0.01W 0402	3F22	4822 051 30103	10kΩ 5% 0.062W
3274	3198 031 03910	390Ω 1% 0402	3837	4822 117 13606	10kΩ 5% 0.01W 0402	3F23	4822 051 30102	1kΩ 5% 0.062W
3275	4822 117 13545	100Ω 1% 0402	3838	4822 117 13606	10kΩ 5% 0.01W 0402	3F24	4822 051 30103	10kΩ 5% 0.062W
3276	3198 031 07590	75Ω 5% 0402	3839	4822 117 13545	100Ω 1% 0402	3F25	4822 051 30103	10kΩ 5% 0.062W
3277	3198 031 01520	1.2kΩ 5% 0.01W 0402	3840	3198 031 02290	22Ω 5% 0.1W 0402	3F26	4822 051 30153	15kΩ 5% 0.062W
3280▲	4822 117 11151	1Ω 5%	3841	4822 117 13606	10kΩ 5% 0.01W 0402	3F27	4822 051 30153	15kΩ 5% 0.062W
3281	3198 031 03930	39kΩ 5% 0402	3900	3198 031 03320	3.3kΩ 5% 0402	3F28	4822 051 30101	100Ω 5% 0.062W
3282	4822 051 30151	150Ω 5% 0.062W	3901	4822 117 13606	10kΩ 5% 0.01W 0402	3F29	4822 051 30101	100Ω 5% 0.062W
3285	4822 117 13605	Jumper 0402	3902	4822 117 13606	10kΩ 5% 0.01W 0402	3G00	4822 051 30151	150Ω 5% 0.062W
3286	4822 117 13545	100Ω 1% 0402	3903	4822 117 13545	100Ω 1% 0402	3G01	4822 051 30103	10kΩ 5% 0.062W
3292▲	3198 031 01230	12kΩ 5% 0402	3904	4822 117 13545	100Ω 1% 0402	3G02	4822 117 12891	220kΩ 1%
3294▲	3198 031 04730	47Ω 5% 0402	3A00	3198 031 06890	68Ω 5% 0402	3G03	4822 051 30153	15kΩ 5% 0.062W
3295▲	4822 117 11297	100kΩ 5% 0.1W	3A01	3198 031 06890	68Ω 5% 0402	3G04	4822 051 30151	150Ω 5% 0.062W
3431	4822 117 13548	1kΩ 5% 0402	3A07	4822 117 13606	10kΩ 5% 0.01W 0402	3G05	4822 051 30103	10kΩ 5% 0.062W
3451	3198 031 04720	4.7kΩ 5% 0402	3A08	4822 117 13606	10kΩ 5% 0.01W 0402	3G06	4822 117 12891	220kΩ 1%
3453	4822 117 13545	100Ω 1% 0402	3A10	4822 117 13606	10kΩ 5% 0.01W 0402	3G07	4822 051 30153	15kΩ 5% 0.062W
3454	4822 117 13545	100Ω 1% 0402	3A11	4822 117 13606	10kΩ 5% 0.01W 0402	3G08	4822 051 30151	150Ω 5% 0.062W
3455	4822 117 13545	100Ω 1% 0402	3A13	4822 117 13606	10kΩ 5% 0.01W 0402	3G12	2122 118 06408	91Ω 5% 0603
3456	4822 117 13545	100Ω 1% 0402	3A14	3198 031 04720	4.7kΩ 5% 0402	3G13	2122 118 06408	91Ω 5% 0603
3458	4822 117 13545	100Ω 1% 0402	3B01	4822 117				

3G32	4822 051 30102	1kΩ 5% 0.062W	3N01	4822 117 13606	10kΩ 5% 0.01W 0402	5216	4822 157 11716	Bead 30Ω at 100MHz
3G33	4822 051 30101	100Ω 5% 0.062W	3N02	4822 117 13606	10kΩ 5% 0.01W 0402	5218▲	2422 549 45333	Bead 120Ω at 100MHz
3G34	4822 051 30102	1kΩ 5% 0.062W	3N03	4822 117 13606	10kΩ 5% 0.01W 0402	5501	3198 018 31080	1μH 10% 0805
3G37	4822 051 30151	150Ω 5% 0.062W	3N04	4822 117 13606	10kΩ 5% 0.01W 0402	5704	2422 549 45333	Bead 120Ω at 100MHz
3G38	4822 051 30103	10kΩ 5% 0.062W	3N05	4822 117 13606	10kΩ 5% 0.01W 0402	5709	2422 535 94134	10μH 20% 0805
3G39	4822 117 12891	220kΩ 1%	3N06	4822 117 13606	10kΩ 5% 0.01W 0402	5712	2422 536 00339	33μH 20%
3G40	4822 051 30153	15kΩ 5% 0.062W	3N07	4822 051 30333	33kΩ 5% 0.062W	5713	2422 535 94995	10μH 20%
3G41	4822 051 30151	150Ω 5% 0.062W	3N08	4822 117 13606	10kΩ 5% 0.01W 0402	5730	2422 535 94134	10μH 20% 0805
3G42	4822 051 30103	10kΩ 5% 0.062W	3N09	4822 117 13548	1kΩ 5% 0402	5733	2422 536 00689	220μH 20%
3G43	4822 117 12891	220kΩ 1%	3N10	4822 117 13603	33kΩ 5% 0402	5735	2422 536 00667	1000μH 20% 7032
3G44	4822 051 30153	15kΩ 5% 0.062W	3N11	4822 117 13546	47Ω 5% 0402	5737	2422 535 94134	10μH 20% 0805
3G45	4822 051 30759	75Ω 5% 0.062W	3N12	4822 117 13606	10kΩ 5% 0.01W 0402	5738	2422 549 45333	Bead 120Ω at 100MHz
3G46	4822 051 30101	100Ω 5% 0.062W	3N13	4822 117 13606	10kΩ 5% 0.01W 0402	5752	2422 535 94134	10μH 20% 0805
3G47	4822 117 12925	47kΩ 1% 0.063W 0603	3N14	4822 117 13606	10kΩ 5% 0.01W 0402	5753	2422 536 00689	220μH 20%
3G48	4822 117 12925	47kΩ 1% 0.063W 0603	3N15	4822 117 13546	47Ω 5% 0402	5753	2422 536 01178	470μH 20% 10145
3G51	4822 051 30273	27kΩ 5% 0.062W	3N16	4822 117 13546	47Ω 5% 0402	5754	2422 535 94134	10μH 20% 0805
3G52	4822 051 30682	6.8Ω 5% 0.062W	3N17	4822 117 13546	47Ω 5% 0402	5900	2422 549 45333	Bead 120Ω at 100MHz
3G53	4822 051 30689	68Ω 5% 0.063W 0603	3N18	4822 117 13546	47Ω 5% 0402	5901	2422 549 45333	Bead 120Ω at 100MHz
3G54	4822 051 30102	1kΩ 5% 0.062W	3N19	4822 117 13606	10kΩ 5% 0.01W 0402	5902	2422 549 45333	Bead 120Ω at 100MHz
3G57	4822 051 30759	75Ω 5% 0.062W	3N20	4822 117 13546	47Ω 5% 0402	5903	2422 549 45333	Bead 120Ω at 100MHz
3G58	4822 051 30101	100Ω 5% 0.062W	3N21	4822 117 13545	100Ω 1% 0402	5904	2422 549 45333	Bead 120Ω at 100MHz
3G59	4822 117 12925	47kΩ 1% 0.063W 0603	3N22	4822 117 13545	100Ω 1% 0402	5905	2422 549 45333	Bead 120Ω at 100MHz
3G60	4822 117 12925	47kΩ 1% 0.063W 0603	3N23	4822 117 13545	100Ω 1% 0402	5906	2422 549 45333	Bead 120Ω at 100MHz
3G96	4822 117 12925	47kΩ 1% 0.063W 0603	3N24	4822 117 13545	100Ω 1% 0402	5907	2422 549 45333	Bead 120Ω at 100MHz
3G99	4822 117 12925	47kΩ 1% 0.063W 0603	3N25	4822 117 13545	100Ω 1% 0402	5908	2422 549 45333	Bead 120Ω at 100MHz
3J05	3198 031 06890	68Ω 5% 0402	3N26	3198 031 04720	4.7kΩ 5% 0402	5909	2422 549 45333	Bead 120Ω at 100MHz
3K00	4822 117 13545	100Ω 1% 0402	3N27	4822 117 13546	47Ω 5% 0402	5910	2422 549 45333	Bead 120Ω at 100MHz
3K01	4822 117 13545	100Ω 1% 0402	3N28	4822 051 30181	180Ω 5% 0.062W	5911	2422 549 45333	Bead 120Ω at 100MHz
3K02	4822 117 13606	10kΩ 5% 0.01W 0402	3N29	4822 117 13545	100Ω 1% 0402	5A00	4822 157 11716	Bead 30Ω at 100MHz
3K03	3198 031 01530	15kΩ 5% 0.01W 0402	3N30	4822 117 13545	100Ω 1% 0402	5C00	2422 549 45333	Bead 120Ω at 100MHz
3K05	4822 117 13606	10kΩ 5% 0.01W 0402	3N31	4822 117 13545	100Ω 1% 0402	5E00	2422 549 45333	Bead 120Ω at 100MHz
3K06	3198 031 01530	15kΩ 5% 0.01W 0402	3N32	4822 117 13545	100Ω 1% 0402	5E01	2422 549 45333	Bead 120Ω at 100MHz
3K07	2322 705 70399	39Ω 5% 0402	3N33	4822 117 13545	100Ω 1% 0402	5E02	2422 549 45333	Bead 120Ω at 100MHz
3K09	2322 705 70399	39Ω 5% 0402	3N34	4822 117 13545	100Ω 1% 0402	5E03	2422 549 45333	Bead 120Ω at 100MHz
3K11	3198 031 06890	68Ω 5% 0402	3N35	4822 117 13545	100Ω 1% 0402	5F00	2422 549 45333	Bead 120Ω at 100MHz
3K12	3198 031 06890	68Ω 5% 0402	3N46	4822 117 13545	100Ω 1% 0402	5F01	2422 549 45333	Bead 120Ω at 100MHz
3K13	3198 031 06890	68Ω 5% 0402	3N47	4822 117 13545	100Ω 1% 0402	5F02	2422 549 45333	Bead 120Ω at 100MHz
3L00	4822 117 13548	1kΩ 5% 0402	3P01	3198 031 04720	4.7kΩ 5% 0402	5F03	2422 549 45333	Bead 120Ω at 100MHz
3L04	4822 117 13605	Jumper 0402	3P03	4822 117 13546	47Ω 5% 0402	5G02	2422 549 45333	Bead 120Ω at 100MHz
3L05	3198 031 01510	150Ω 5% 0.01W 0402	3P04	4822 117 13605	Jumper 0402	5J01	2422 549 42896	Bead 120Ω 100MHz
3L06	4822 117 13605	Jumper 0402	3P05	4822 117 13605	Jumper 0402	5J02	2422 549 42896	Bead 120Ω 100MHz
3L10	4822 117 13597	330Ω 5% 0.01W 0402	3500	4822 117 12925	47kΩ 1% 0.063W 0603	5J03	2422 549 45333	Bead 120Ω at 100MHz
3L11	3198 031 01510	150Ω 5% 0.01W 0402	3503	4822 117 12925	47kΩ 1% 0.063W 0603	5J04	2422 549 45333	Bead 120Ω at 100MHz
3L12	4822 117 13548	1kΩ 5% 0402	4201	4822 117 13605	Jumper 0402	5L00	2422 549 45333	Bead 120Ω at 100MHz
3L16	4822 117 13605	Jumper 0402	4202	4822 117 13605	Jumper 0402	5L01	2422 549 45333	Bead 120Ω at 100MHz
3L17	3198 031 01510	150Ω 5% 0.01W 0402	4203	4822 117 13605	Jumper 0402	5L02	2422 549 45333	Bead 120Ω at 100MHz
3L19	3198 031 01510	150Ω 5% 0.01W 0402	4211	4822 117 13605	Jumper 0402	5M00	2422 549 45333	Bead 120Ω at 100MHz
3L20	3198 031 01510	150Ω 5% 0.01W 0402	4212	4822 117 13605	Jumper 0402	5M01	2422 549 45333	Bead 120Ω at 100MHz
3L21	4822 117 13602	2.2kΩ 5% 0.01W 0402	4440	4822 117 13605	Jumper 0402	5M02	2422 549 45333	Bead 120Ω at 100MHz
3L22	4822 117 13602	2.2kΩ 5% 0.01W 0402	4441	4822 117 13605	Jumper 0402	5M03	2422 549 45333	Bead 120Ω at 100MHz
3L24	4822 117 13602	2.2kΩ 5% 0.01W 0402	4501	4822 117 13605	Jumper 0402	5M04	2422 549 45333	Bead 120Ω at 100MHz
3L25	2350 035 10229	4 x 22Ω 5% 1206	4502	4822 117 13605	Jumper 0402	5M05	2422 549 45333	Bead 120Ω at 100MHz
3L26	2350 035 10229	4 x 22Ω 5% 1206	4504	4822 117 13605	Jumper 0402	5N01	4822 157 11716	Bead 30Ω at 100MHz
3L27	2350 035 10229	4 x 22Ω 5% 1206	4511	4822 117 13605	Jumper 0402	5N02	4822 157 11716	Bead 30Ω at 100MHz
3L28	2350 035 10229	4 x 22Ω 5% 1206	4801	4822 117 13605	Jumper 0402	5N03	4822 157 11716	Bead 30Ω at 100MHz
3L30	3198 031 02290	22Ω 5% 0.1W 0402	4A04	4822 117 13605	Jumper 0402	5N04	4822 157 11716	Bead 30Ω at 100MHz
3L31	3198 031 02290	22Ω 5% 0.1W 0402	4J01	4822 117 13605	Jumper 0402	5N05	4822 157 11716	Bead 30Ω at 100MHz
3L32	4822 117 13602	2.2kΩ 5% 0.01W 0402	4K04	4822 117 13605	Jumper 0402	5P01	4822 157 11716	Bead 30Ω at 100MHz
3L33	4822 117 13596	220Ω 5% 0.01W 0402	4K05	4822 117 13605	Jumper 0402	5P02	4822 157 11716	Bead 30Ω at 100MHz
3L34	4822 117 13605	Jumper 0402	4L02	4822 117 13605	Jumper 0402	5P03	4822 157 11716	Bead 30Ω at 100MHz
3L35	4822 117 13596	220Ω 5% 0.01W 0402	4L05	4822 117 13605	Jumper 0402	5P04	4822 157 11716	Bead 30Ω at 100MHz
3L36	3198 031 03320	3.3kΩ 5% 0402	4M00	4822 117 13605	Jumper 0402	5P05	4822 157 11716	Bead 30Ω at 100MHz
3L37	3198 031 03320	3.3kΩ 5% 0402	4M01	4822 117 13605	Jumper 0402	5P06	4822 157 11716	Bead 30Ω at 100MHz
3L38	4822 117 13605	Jumper 0402	4M02	4822 117 13605	Jumper 0402			
3M01	2350 035 10689	4 x 68Ω 5%	4M03	4822 117 13605	Jumper 0402			
3M02	2350 035 10689	4 x 68Ω 5%	4M05	4822 117 13605	Jumper 0402			
3M03	2350 035 10689	4 x 68Ω 5%	4M08	4822 117 13605	Jumper 0402			
3M04	2350 035 10689	4 x 68Ω 5%	4M09	4822 117 13605	Jumper 0402			
3M06	2350 035 10229	4 x 22Ω 5% 1206	4M10	4822 117 13605	Jumper 0402	6101	4822 130 11416	PDZ6.8B
3M07	2350 035 10229	4 x 22Ω 5% 1206	4M16	4822 117 13605	Jumper 0402	6102	4822 130 11416	PDZ6.8B
3M08	2350 035 10229	4 x 22Ω 5% 1206	4M17	4822 117 13605	Jumper 0402	6103	4822 130 11397	BAS316
3M09	2350 035 10229	4 x 22Ω 5% 1206	4N21	4822 117 13605	Jumper 0402	6104	4822 130 11525	1SS356
3M11	3198 031 04720	4.7kΩ 5% 0402	4N22	4822 117 13605	Jumper 0402	6204	4822 130 80622	BAT54
3M13	3198 031 04720	4.7kΩ 5% 0402				6205	4822 130 80622	BAT54
3M14	4822 117 13545	100Ω 1% 0402				6430	9340 548 42115	PDZ2.4B
3M15	4822 117 13545	100Ω 1% 0402				6431	9965 000 20150	1N4148WS SOD-323
3M16	3198 031 04720	4.7kΩ 5% 0402				6601	4822 130 10838	UDZ3.3B
3M26	4822 117 13605	Jumper 0402				6708	3198 010 10720	SS24
3M27	4822 117 13605	Jumper 0402				6709	9322 128 70685	SMSS14
3M50	4822 117 13606	10kΩ 5% 0.01W 0402				6712	3198 010 10730	SS36
3M51	4822 117 13606	10kΩ 5% 0.01W 0402				6733	9322 128 70685	SMSS14
3M52	4822 117 13606	10kΩ 5% 0.01W 0402				6735	5322 130 34337	BAV99
3M53	4822 117 13546	47Ω 5% 0402				6736	9340 548 71115	PDZ33B
3M54	4822 117 13546	47Ω 5% 0402				6740	4822 130 10837	UDZ58.2B
3M55	4822 117 13546	47Ω 5% 0402				6751	9322 128 70685	SMSS14
3M56	4822 117 13606	10kΩ 5% 0.01W 0402				6E01	9322 102 64685	UDZ2.7B
3M57	4822 117 13546	47Ω 5% 0402				6E03	9322 102 64685	UDZ2.7B
3M58	4822 117 13606	10kΩ 5% 0.01W 0402				6F00	4822 130 11397	BAS316
3M59	4822 117 13546	47Ω 5% 0402				6F01	4822 130 11397	BAS316
3M78	4822 117 13548	1kΩ 5% 0402				6G03	4822 130 11416	PDZ6.8B
3M79	3198 031 03320	3.3kΩ 5% 0402				6G04	4822 130 11416	PDZ6.8B
3M87	4822 117 13605	Jumper 0402				6G05	4822 130 11416	PDZ6.8B
3M89	3198 031 02290	22Ω 5% 0.1W 0402				6G06	4822 130 11416	PDZ6.8B
3M90	3198 031 02290	22Ω 5% 0.1W 0402				6G07	4822 130 11416	PDZ6.8B
						6G08	4822 130 11416	PDZ6.8B

6G09	4822 130 11416	PDZ6.8B
6G10	4822 130 11416	PDZ6.8B
6N01	9322 085 77685	TLMG3100

 Software 42HF7443/10 (See Prod. Surv.)

7050	3104 317 08962	SW uP LC4XEP1_1.24
7051	3104 317 09052	SW ScalerS4XGPX_1.29
7052	3104 317 09131	SW EPLD V0E11
7055	3104 317 08881	SW DDC DVI 42" PDP



7101	3198 010 42310	BC847BW
7201	9340 550 49115	PUMH7
7202	9340 550 49115	PUMH7
7206	4822 130 60373	BC856B
7207	9322 214 45668	M24C16-WMN6P
7208	3198 010 42310	BC847BW
7209	3198 010 42310	BC847BW
7210	3198 010 42310	BC847BW
7214	9339 693 90135	BCP69-25
7215	9339 693 90135	BCP69-25
7216	9340 425 20115	BC847BS
7217		For SW see item 7050
7219	9322 164 91668	CD74HC4053M
7430	4822 130 11155	PDTCT114ET
7436	9322 221 97668	SN74LVC14APW
7501	9322 199 16668	M74HC590T
7502	9322 201 05671	CY62256LL-70ZC
7502	9322 208 98668	M68AF031AM70N6
7503	9322 199 16668	M74HC590T
7504	3198 010 42310	BC847BW
7505	9351 870 00118	74HC573PW
7506	9351 870 00118	74HC573PW
7601	9322 183 05668	TS482ID
7602	9351 742 70118	74HC08PW
7603	3198 010 42310	BC847BW
7604	3198 010 42310	BC847BW
7605	9340 310 50215	PDTA143ET
7606	9340 425 20115	BC847BS
7708	9322 139 16668	LF33CPT
7710	9322 202 34668	L5973D
7730	9322 191 07668	L5970D
7735	4822 130 42804	BC817-25
7738	9322 163 24668	L78M08CDT
7741	3198 010 42310	BC847BW
7742	3198 010 42310	BC847BW
7752	5322 209 90529	MC34063AD
7756	4822 130 11155	PDTCT114ET
7758	9322 212 14668	SI4423DY
7801	9322 219 57671	GM1501H-LF-BD
7900	9322 142 88668	LF25CDT
7901	9322 189 19668	LD1086D2T18
7A00	9352 759 98118	PCA9515ADP
7A02	3198 010 42310	BC847BW
7A03	3198 010 42310	BC847BW
7B01	9322 214 42671	K4D263238F-QC50
7C00		For SW see item 7051
7C01	9322 206 23668	M24C32-WMN6P
7C02	9322 215 39685	PST596JN
7E00	9322 195 23668	ADG733BRU
7E01	9322 199 80668	SM5301BS-G
7E02	9322 199 56668	ADG781BCP
7E03	9322 164 91668	CD74HC4053M
7E04	9322 221 97668	SN74LVC14APW
7E05	9322 221 97668	SN74LVC14APW
7F03		For SW see item 7055
7G03	3198 010 42310	BC847BW
7G05	3198 010 42310	BC847BW
7G10	9322 164 91668	CD74HC4053M
7L01	3198 010 42310	BC847BW
7L02	3198 010 42310	BC847BW
7L03	3198 010 42310	BC847BW
7L04	9322 212 72772	MST9883C-LF-110
7L05	4822 209 17398	LD1117DT33
7L06	9965 000 04199	BSN20
7L07	9965 000 04199	BSN20
7M00	9322 204 76671	T6TU5XBG-0001
7M01	9322 206 19672	MSM56V16160F-7T3-FG
7M03	9322 170 14668	LF15ABDT
7N01		For SW see item 7052
7N02	9322 217 35671	EP1C12F256C8N
7N03	9340 425 20115	BC847BS
7N04	9322 210 59668	THC63LVDF84B
7P01	9322 170 14668	LF15ABDT
7P02	9322 201 03668	THC63LVDM83R

Audio Amplifier panel [C]**Various**

1735	4822 267 10918	Connector 3p
1736	2422 025 10768	Connector 3p m
1M02	4822 267 10618	Connector 7p
1M06	2422 025 11244	Connector 7p m
1M52	2422 025 10769	Connector 9p m



2700	4822 126 14247	1.5nF 50V 0603
2701	4822 126 14249	560pF 10% 50V 0603
2703	2020 552 96683	220nF 10% 50V
2704	4822 124 11767	470µF 20% 25V
2705	4822 126 14249	560pF 10% 50V 0603
2706	5322 126 11579	3.3nF 10% 63V
2707	2222 580 15649	100nF 10% 50V 0805
2709	2020 552 96683	220nF 10% 50V
2710	2020 552 96683	220nF 10% 50V
2711	2022 552 05679	1µF 10% 16V 0805
2712	4822 126 14583	470nF 10% 16V 0805
2713	4822 126 13193	4.7nF 10% 63V
2715	4822 121 51252	470nF 5% 63V
2716	3198 017 31530	15nF 20% 50V 0603
2717	2022 552 05679	1µF 10% 16V 0805
2718	2222 580 15649	100nF 10% 50V 0805
2719	4822 126 14583	470nF 10% 16V 0805
2720	2020 021 91431	22µF 20% 100V
2721	2222 580 15649	100nF 10% 50V 0805
2722	4822 126 14583	470nF 10% 16V 0805
2723	2022 552 05679	1µF 10% 16V 0805
2726	4822 126 13193	4.7nF 10% 63V
2727	4822 126 14249	560pF 10% 50V 0603
2731	4822 126 14249	560pF 10% 50V 0603
2732	4822 126 14583	470nF 10% 16V 0805
2736	4822 121 51252	470nF 5% 63V
2737	3198 017 31530	15nF 20% 50V 0603
2739	2222 580 15649	100nF 10% 50V 0805
2741	4822 126 13883	220pF 5% 50V
2743	3198 016 31020	1nF 25V 0603
2744	2222 580 15649	100nF 10% 50V 0805
2745	2020 552 96683	220nF 10% 50V
2746	4822 124 11767	470µF 20% 25V
2747	2022 552 05679	1µF 10% 16V 0805
2748	4822 126 14247	1.5nF 50V 0603
2749	5322 126 11579	3.3nF 10% 63V
2751	4822 124 40433	47µF 20% 25V
2754	2020 021 91431	22µF 20% 100V
2770	3198 017 41050	1µF 10V 0603
2776	2020 021 91431	22µF 20% 100V
2780	4822 126 14583	470nF 10% 16V 0805
2789	4822 126 14583	470nF 10% 16V 0805
2791	4822 126 13879	220nF +80-20% 16V
27A0	5322 122 32448	10pF 5% 63V
27A1	5322 122 32448	10pF 5% 63V



3700	4822 051 30561	560Ω 5% 0.062W
3701	4822 051 30479	47Ω 5% 0.062W
3702	3198 021 38220	8.2kΩ 5% 0.062W 0603
3703	3198 021 38220	8.2kΩ 5% 0.062W 0603
3704	4822 117 13632	100kΩ 1% 0603 0.62W
3705	4822 051 30222	2.2kΩ 5% 0.062W
3706	4822 051 30682	6.8Ω 5% 0.062W
3707	4822 051 30393	39kΩ 5% 0.062W
3708	4822 051 30479	47Ω 5% 0.062W
3709	4822 051 30272	2.7kΩ 5% 0.062W
3710	4822 051 30393	39kΩ 5% 0.062W
3711	2322 762 60568	5.6Ω 5% 5% 2512
3712	4822 051 30272	2.7kΩ 5% 0.062W
3713	4822 051 30332	3.3Ω 5% 0.062W
3714	4822 051 30682	6.8Ω 5% 0.062W
3715	2322 762 60568	5.6Ω 5% 5% 2512
3716	4822 117 13632	100kΩ 1% 0603 0.62W
3717	4822 051 30222	2.2kΩ 5% 0.062W
3718	4822 051 30561	560Ω 5% 0.062W
3719	4822 051 30124	120kΩ 5% 0.062W
3720	4822 051 30479	47Ω 5% 0.062W
3721	4822 051 30471	47Ω 5% 0.062W
3722	4822 051 30124	120kΩ 5% 0.062W
3723	4822 051 30471	47Ω 5% 0.062W
3724	4822 051 30102	1kΩ 5% 0.062W
3725	4822 117 12925	47kΩ 1% 0.063W 0603
3726	4822 051 30153	15kΩ 5% 0.062W
3727	4822 051 30103	10kΩ 5% 0.062W
3728	4822 051 30153	15kΩ 5% 0.062W
3729	4822 117 12925	47kΩ 1% 0.063W 0603
3730	4822 051 30223	22kΩ 5% 0.062W

3731	4822 051 30102	1kΩ 5% 0.062W
3732	4822 051 30223	22kΩ 5% 0.062W
3733	4822 051 30562	5.6kΩ 5% 0.063W 0603
3734	4822 051 30223	22kΩ 5% 0.062W
3735	4822 117 12889	270kΩ 1% 0.063W 0603
3736	4822 117 12925	47kΩ 1% 0.063W 0603
3737	4822 117 12925	47kΩ 1% 0.063W 0603
3738	4822 117 13632	100kΩ 1% 0603 0.62W
3760	4822 051 30223	22kΩ 5% 0.062W
3764	4822 117 13632	100kΩ 1% 0603 0.62W
3765	4822 117 13632	100kΩ 1% 0603 0.62W
3777	4822 051 30102	1kΩ 5% 0.062W
3778	4822 051 30479	47Ω 5% 0.062W
3999	4822 051 30472	4.7Ω 5% 0.062W
9710	4822 051 20008	Jumper 0805
9711	4822 051 20008	Jumper 0805
9712	4822 051 20008	Jumper 0805
9713	4822 051 20008	Jumper 0805
9748	4822 051 20008	Jumper 0805
9757	4822 051 20008	Jumper 0805
9758	4822 051 20008	Jumper 0805
9759	4822 051 20008	Jumper 0805
9760	4822 051 20008	Jumper 0805
9761	4822 051 20008	Jumper 0805
9762	4822 051 20008	Jumper 0805
9763	4822 051 20008	Jumper 0805
9764	4822 051 20008	Jumper 0805
9765	4822 051 20008	Jumper 0805
9766	4822 051 20008	Jumper 0805
9768	4822 051 20008	Jumper 0805
9770	4822 051 20008	Jumper 0805
9790	4822 051 20008	Jumper 0805
9795	4822 051 20008	Jumper 0805
9796	4822 051 20008	Jumper 0805
9806	4822 051 20008	Jumper 0805
9807	4822 051 20008	Jumper 0805
9808	4822 051 20008	Jumper 0805



5700	2422 536 00942	33µH 20%
5701	4822 157 11716	Bead 30Ω at 100MHz
5702	2422 536 00942	33µH 20%
5705	4822 157 11411	Bead 80Ω at 100MHz
5708	4822 157 11411	Bead 80Ω at 100MHz



6700	4822 130 11522	UDZ15B
6702	9322 150 18685	BZK384-C47
6703	4822 130 10838	UDZ3.3B



7700	9322 202 89668	LM393P
7701	9352 729 65112	TDA8925ST/N1
7702	3198 010 42310	BC847BW
7705	3198 010 42310	BC847BW
7706	3198 010 42310	BC847BW
7707	3198 010 42310	BC847BW
7708	3198 010 42320	BC857BW
7709	3198 010 42310	BC847BW
7710	3198 010 42310	BC847BW
7711	3198 010 42320	BC857BW
7712	3198 010 42310	BC847BW
7713	3198 010 42310	BC847BW

Side I/O panel [D]**Various**

1001	2422 026 05133	Connector SVHS 4p f
1002	2422 026 05807	Soc. Cinch 3p f YeWhRd
1010	4822 267 31014	Soc. Headphone
1116	3104 328 40501	Side I/O Assy 42"/50"
1M36	2422 025 17179	Connector 11p m
8136	3104 311 10733	Cable 11p/1000/11p



2003	2022 552 05679	1µF 10% 16V 0805
2004	3198 016 36810	680pF 25V 0603
2005	2020 552 94427	100pF 5% 50V
2006	3198 016 36810	680pF 25V 0603
2007	2020 552 94427	100pF 5% 50V
2008	2238 916 15641	22nF 10% 25V 0603
2009	5322 126 11583	10nF 10% 50V 0603
2010	2238 916 15641	22nF 10% 25V 0603
2011	5322 126 11583	10nF 10% 50V 0603

—W—

3000	4822 051 30759	75Ω 5% 0.062W
3004	4822 051 30759	75Ω 5% 0.062W
3008	4822 051 30222	2.2kΩ 5% 0.062W
3009	4822 051 30102	1kΩ 5% 0.062W
3010	4822 051 30333	33kΩ 5% 0.062W
3011	4822 051 30392	3.9Ω 5% 0.063W 0603
3012	4822 051 30102	1kΩ 5% 0.062W
3013	4822 051 30333	33kΩ 5% 0.062W
3016	4822 051 30103	10kΩ 5% 0.062W
3020	4822 051 30103	10kΩ 5% 0.062W
9004	4822 051 30008	Jumper 0603
9005	4822 051 30008	Jumper 0603
9006	4822 051 30008	Jumper 0603
9007	4822 051 30008	Jumper 0603
9008	4822 051 30008	Jumper 0603
9009	4822 051 30008	Jumper 0603
9010	4822 051 30008	Jumper 0603
9011	4822 051 30008	Jumper 0603

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6000	4822 130 11416	PDZ6.8B
6001	4822 130 11416	PDZ6.8B
6002	4822 130 11416	PDZ6.8B
6003	4822 130 11416	PDZ6.8B
6004	4822 130 11416	PDZ6.8B
6005	4822 130 11416	PDZ6.8B
6006	4822 130 11416	PDZ6.8B
6007	4822 130 11416	PDZ6.8B
6008	4822 130 11416	PDZ6.8B
6009	4822 130 11416	PDZ6.8B
6010	4822 130 11416	PDZ6.8B
6011	4822 130 11416	PDZ6.8B

Side Control panel [E]

See Set Level

i-Board panel [HC]

See SSB panel: “Various”

LED panel [J]

See Set Level

11. Revision List

Manual xxxx xxx xxxx.0

- First release.