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Service Manual

Contents **Page**

1. Technical Specifications, Connections, and Chassis Overview 2
2. Safety Instructions, Warnings, and Notes 6
3. Directions for Use 7
4. Mechanical Instructions 8
5. Service Modes, Error Codes, and Fault Finding 15
6. *Block Diagrams, Test Point Overviews, and Waveforms*
   - Wiring Diagram 32” LCD (ME7) 29
   - Wiring Diagram 32” LCD with AmbiLight (ME7) 30
   - Wiring Diagram 42” LCD (ME7) 31
   - Wiring Diagram 42” LCD with AmbiLight (ME7) 32
   - Wiring Diagram 52” LCD (ME7) 33
   - Block Diagram Video 34
   - Block Diagram Audio 35
   - Block Diagram Control & Clock Signals 36
   - Testpoint Overview SSB (Bottom Side) 37-41
   - I2C Overview 42
   - Supply Lines Overview 43
7. *Circuit Diagrams and PWB Layouts* *Diagram* *PWB*
   - SSB: DC / DC 3V3, VTUN, & 5V_SW (B01A) 44 67-76
   - SSB: DC / DC 1V2, 2V5, & 1V8 (B01B) 45 67-76
   - SSB: Tuner IF & Demodulator (B02) 46 67-76
   - SSB: DVB-Demodulator (B03A) 47 67-76
   - SSB: DVB-T: DVB Common Interface (B03B) 48 67-76
   - SSB: DVB MOJO (B03C) 49 67-76
   - SSB: DVB MOJO Memory (B03D) 50 67-76
   - SSB: DVB MOJO Analog Back End (B03E) 51 67-76
   - SSB: Micro Processor (B04) 52 67-76
   - SSB: Trident WX68 (B05A) 53 67-76
   - SSB: DDR & CPU Interface (B05B) 54 67-76
   - SSB: WX Power / Ground (B05C) 55 67-76
   - SSB: FPGA Interface (AL Sets only) (B05D) 56 67-76
   - SSB: FPGA I/O Banks (B05E) 57 67-76

Contents **Page**

   - SSB: Audio Processor (B06A) 58 67-76
   - SSB: Audio (B06B) 59 67-76
   - SSB: Headphone Ampl. & Muting (B06C) 60 67-76
   - SSB: YPBPR & SVHS (B07A) 61 67-76
   - SSB: I/O SCART 1&2 (B07B) 62 67-76
   - SSB: HDMI Main (B07C) 63 67-76
   - SSB: HDMI Switch (B07D) 64 67-76
   - SSB: LVDS Connector (B07E) 65 67-76
   - SSB: SRP List 66 67-76
   - Side I/O Panel (32”): HDMI (D) 77 79
   - Side I/O Panel (32”) (D) 78 79
   - Side I/O Panel (42” & 52”): HDMI (D) 80 82
   - Side I/O Panel (42” & 52”) (D) 81 82
   - Side I/O Panel (42” & 52”) (D) 81 82
   - Keyboard Control Panel (E) 83 84
   - Front IR / LED Panel (J) 85 86
8. Alignments 87
9. Circuit Descriptions, Abbreviation List, and IC Data Sheets 92
   - Abbreviation List 97
   - IC Data Sheets 99
10. Spare Parts List 107
11. Revision List 133

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PHILIPS

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	:	LCD
Screen size	:	32" (82 cm), 16:9
	:	42" (107 cm), 16:9
Resolution (HxV pixels)	:	1366x768 (32")
	:	1920x1080 (42")
Dyn. contrast ratio	:	7500:1
Min. light output (cd/m^2)	:	500
Typ. response time (ms)	:	8 (32")
	:	5 (42")
Viewing angle (HxV degrees)	:	176x176 (32")
	:	178x178 (42")
Tuning system	:	PLL
Presets/channels	:	100 presets
Tuner bands	:	VHF, UHF, S, H
TV Colour systems	:	PAL B/G, D/K, I
	:	SECAM B/G, D/K, L/L'
	:	DVB-T COFDM
Video playback	:	NTSC
	:	PAL
	:	SECAM
Supported computer formats	:	640x480
	:	800x600
	:	1024x768
	:	1280x768
	:	1280x1024
	:	1360x768
Supported video formats	:	640x480i - 1fH
	:	640x480p - 2fH
	:	720x576i - 1fH
	:	720x576p - 2fH
	:	1280x720p - 3fH
	:	1920x1080i - 2fH
	:	1920x1080p - 3fH

1.1.2 Sound

Sound systems	:	stereo, BBE®
Maximum power (W_{RMS})	:	2 × 20

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 (values are indicative)

- Normal operation (W)	:	≈ 110 (32")
	:	≈ 170 (42")
- Stand-by (W)	:	< 1

Dimensions (WxHxD cm)	:	80.4x53.3x17.8 (32")
	:	102.9x66.2x13.6 (42")
Weight (kg)	:	15 (32")
	:	25.5 (42")

1.2 Connection Overview

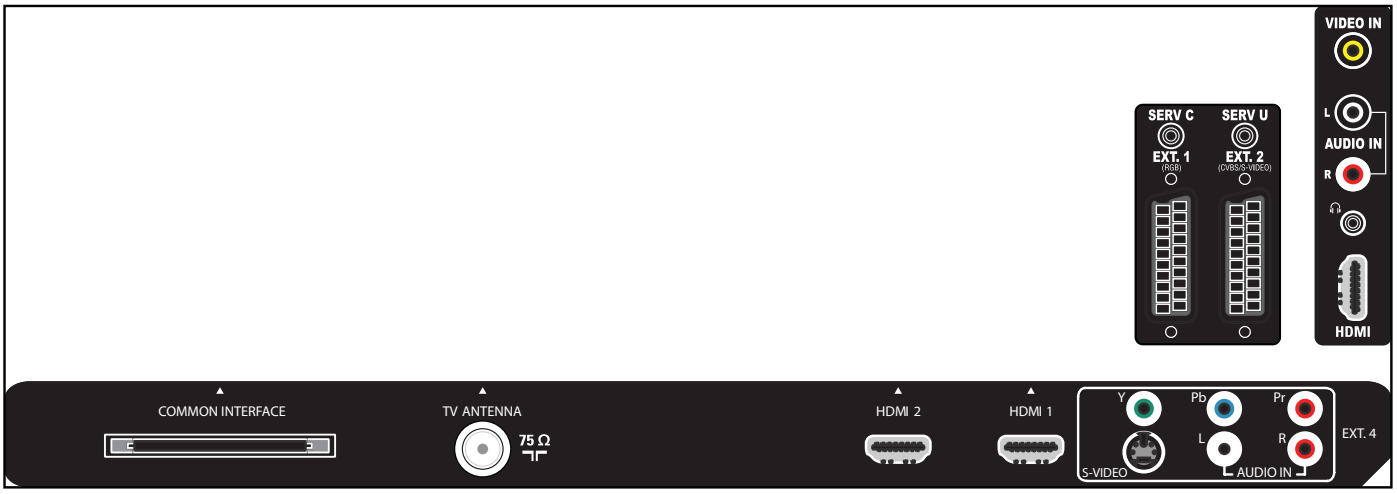

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Figure 1-1 Side and rear I/O connections

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 Connections

EXT3: 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	

EXT3: Head phone - Out

Bk - Head phone	32 - 600 ohm / 10 mW	

EXT3: HDMI: Digital Video, Digital Audio - In

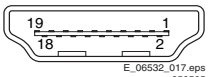

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Figure 1-2 HDMI (type A) connector

1	- D2+	Data channel	
2	- Shield	Gnd	
3	- D2-	Data channel	
4	- D1+	Data channel	
5	- Shield	Gnd	
6	- D1-	Data channel	
7	- D0+	Data channel	
8	- Shield	Gnd	
9	- D0-	Data channel	
10	- CLK+	Data channel	
11	- Shield	Gnd	
12	- CLK-	Data channel	
13	- n.c.		
14	- n.c.		
15	- DDC_SCL	DDC clock	
16	- DDC_SDA	DDC data	
17	- Ground	Gnd	
18	- +5V		
19	- HPD	Hot Plug Detect	
20	- Ground	Gnd	

1.2.2 Rear Connections

Service Connector (ComPair)

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

Service Connector (UART)

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

EXT1: Video RGB - In, CVBS - In/Out, Audio - In/Out

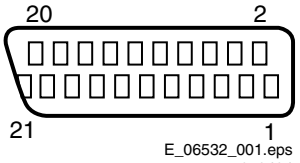

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Figure 1-3 SCART connector

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	- Easylink P50	0 - 5 V / 4.7 kohm	
11	- Video Green	0.7 V_{PP} / 75 ohm	
12	- n.c.		
13	- Ground Red	Gnd	
14	- Ground P50	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 CVBS	1 V_{PP} / 75 ohm	
20	- Video CVBS	1 V_{PP} / 75 ohm	
21	- Shield	Gnd	

EXT2: Video YC - In, CVBS - In/Out, Audio - In/Out

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	- n.c.		
6	- Audio L	0.5 V_{RMS} / 10 kohm	
7	- C-out	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	- n.c.		
10	- Easylink P50	0 - 5 V / 4.7 kohm	
11	- n.c.		
12	- n.c.		
13	- n.c.		
14	- Ground P50	Gnd	
15	- C	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 CVBS	1 V_{PP} / 75 ohm	
20	- Video CVBS/Y	1 V_{PP} / 75 ohm	
21	- Shield	Gnd	

Common Interface

68p	- See diagram B03B		

Aerial - In

-	- IEC-type (EU)	Coax, 75 ohm	

HDMI1 & 2: Digital Video, Digital Audio - In

1	- D2+	Data channel	
2	- Shield	Gnd	
3	- D2-	Data channel	
4	- D1+	Data channel	
5	- Shield	Gnd	
6	- D1-	Data channel	
7	- D0+	Data channel	
8	- Shield	Gnd	
9	- D0-	Data channel	
10	- CLK+	Data channel	
11	- Shield	Gnd	
12	- CLK-	Data channel	
13	- n.c.		
14	- n.c.		
15	- DDC_SCL	DDC clock	
16	- DDC_SDA	DDC data	
17	- Ground	Gnd	
18	- +5V		
19	- HPD	Hot Plug Detect	
20	- Ground	Gnd	

EXT4: Cinch: Video YPbPr - In, Audio - In

Gn	- Video Y	1 V_{PP} / 75 ohm	
Bu	- Video Pb	0.7 V_{PP} / 75 ohm	
Rd	- Video Pr	0.7 V_{PP} / 75 ohm	
Wh	- Audio L	0.5 V_{RMS} / 10 kohm	
Rd	- Audio R	0.5 V_{RMS} / 10 kohm	

EXT4: 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}P / 75 ohm	

1.3 Chassis Overview

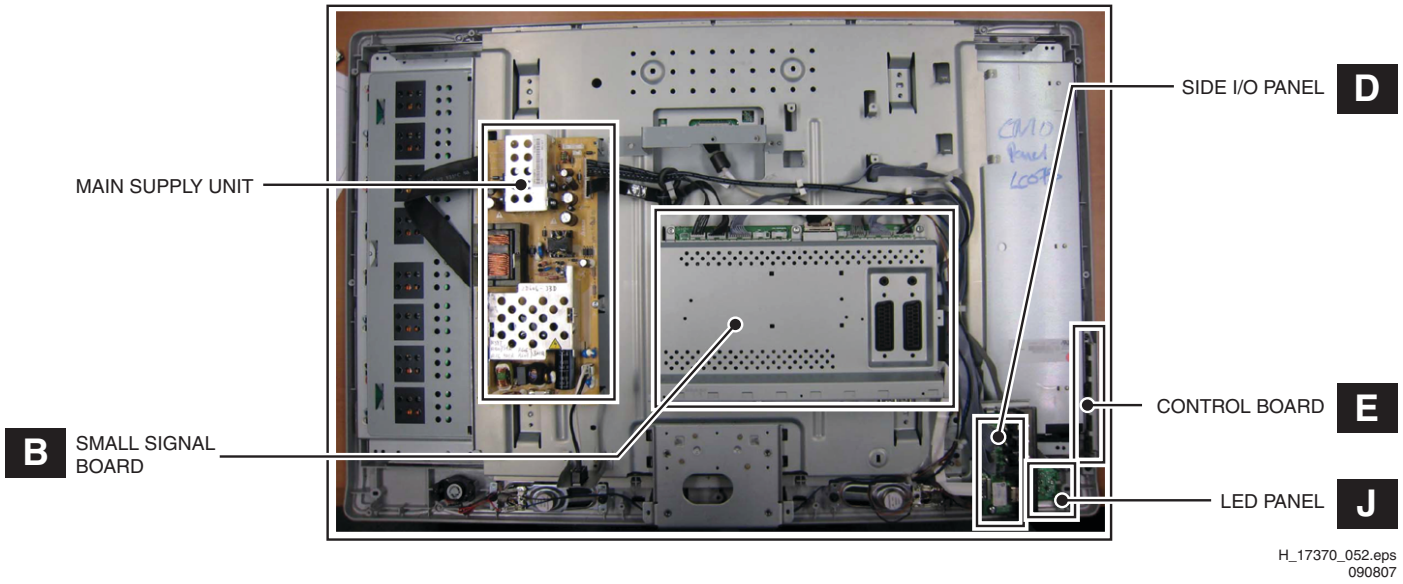

Figure 1-4 PWB/CBA locations (32" sets)

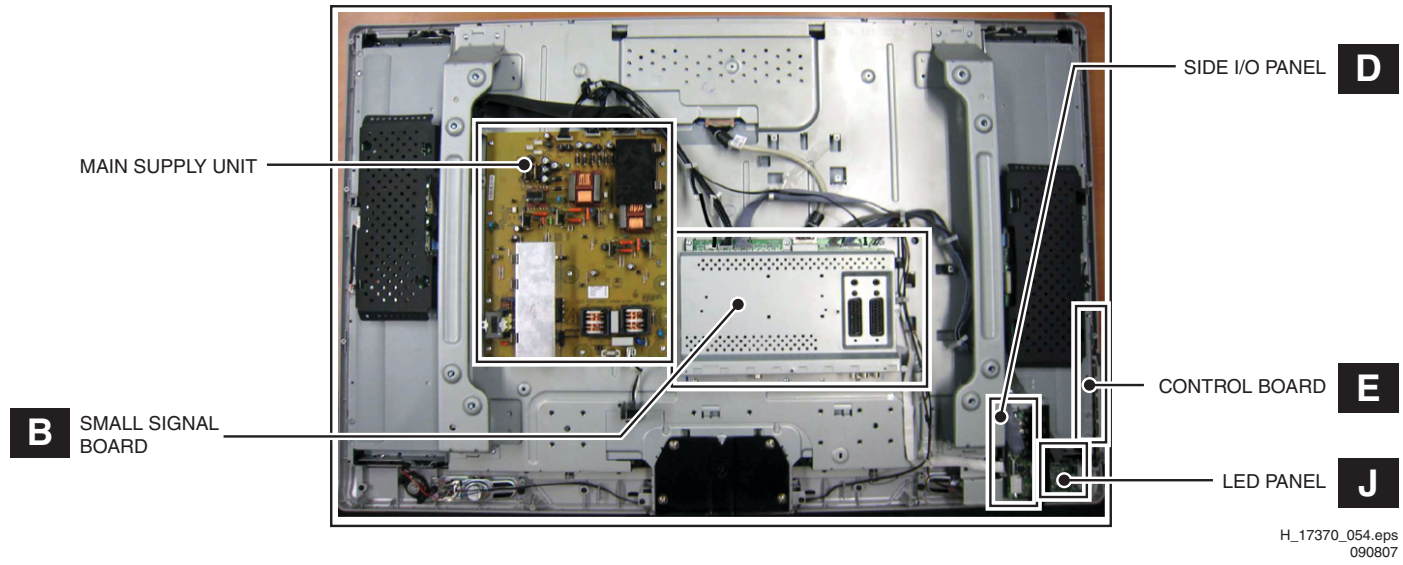

Figure 1-5 PWB/CBA locations (42" models)

2. Safety Instructions, Warnings, and Notes

Index of this chapter:

2.1 Safety Instructions
2.2 Warnings
2.3 Notes

2.1 Safety Instructions

Safety regulations require the following **during** a repair:

- Connect the set to the Mains/AC Power via an isolation transformer (> 800 VA).
- Replace safety components, indicated by the symbol ⚠, only by components identical to the original ones. Any other component substitution (other than original type) may increase risk of fire or electrical shock hazard.

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

- Route the wire trees correctly and fix them with the mounted cable clamps.
- Check the insulation of the Mains/AC Power lead for external damage.
- Check the strain relief of the Mains/AC Power cord for proper function.
- Check the electrical DC resistance between the Mains/AC Power plug and the secondary side (only for sets that have a Mains/AC Power isolated power supply):
  1. Unplug the Mains/AC Power cord and connect a wire between the two pins of the Mains/AC Power plug.
  2. Set the Mains/AC Power switch to the "on" position (keep the Mains/AC Power cord unplugged!).
  3. Measure the resistance value between the pins of the Mains/AC Power plug and the metal shielding of the tuner or the aerial connection on the set. The reading should be between 4.5 Mohm and 12 Mohm.
  4. Switch "off" the set, and remove the wire between the two pins of the Mains/AC Power plug.
- Check the cabinet for defects, to prevent touching of any inner parts by the customer.

2.2 Warnings

- 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 same potential. Available ESD protection equipment:
  – Complete kit ESD3 (small tablemat, wristband, connection box, extension cable and earth cable) 4822 310 10671.
  – Wristband tester 4822 344 13999.
- Be careful during measurements in the high voltage section.
- Never replace modules or other components while the unit is switched "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.

2.3 Notes

2.3.1 General

- Measure the voltages and waveforms with regard to the chassis (= tuner) ground (⏚), or hot ground (⏚), depending on the tested area of circuitry. The voltages and waveforms shown in the diagrams are indicative. Measure them in the Service Default Mode (see chapter 5) with a colour bar signal and stereo sound (L: 3 kHz, R: 1 kHz unless stated otherwise) and picture carrier at 475.25 MHz for PAL, or 61.25 MHz for 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 stand-by (⏲). These values are indicated by means of the appropriate symbols.
- Manufactured under license from Dolby Laboratories. “Dolby”, “Pro Logic” and the “double-D symbol”, are trademarks of Dolby Laboratories.

2.3.2 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 given in micro-farads (μ= x10^{-6}), nano-farads (n= x10^{-9}), or pico-farads (p= x10^{-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 Spare Parts List. Therefore, always check this list when there is any doubt.

2.3.3 BGA (Ball Grid Array) ICs

Introduction

For more information on how to handle BGA devices, visit this URL: *www.atyourservice.ce.philips.com* (needs subscription, not available for all regions). After login, select “Magazine”, then go to “Repair downloads”. Here you will find Information on how to deal with BGA-ICs.

BGA Temperature Profiles

For BGA-ICs, you **must** use the correct temperature-profile, which is coupled to the 12NC. For an overview of these profiles, visit the website *www.atyourservice.ce.philips.com* (needs subscription, but is not available for all regions)
You will find this and more technical information within the "Magazine", chapter "Repair downloads".
For additional questions please contact your local repair help desk.

2.3.4 Lead-free Soldering

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

- Use only lead-free soldering tin Philips SAC305 with order code 0622 149 00106. If lead-free solder paste is required, please contact the manufacturer of your soldering equipment. In general, use of solder paste within workshops should be avoided because paste is not easy to store and to handle.
- Use only adequate solder tools applicable for lead-free soldering tin. The solder tool must be able:
  – To reach a solder-tip temperature of at least 400°C.
  – To stabilize the adjusted temperature at the solder-tip.
  – To exchange solder-tips for different applications.
- Adjust your solder tool so that a temperature of around 360°C - 380°C is reached and stabilized at the solder joint. Heating time of the solder-joint should not exceed ~ 4 sec. Avoid temperatures above 400°C, otherwise wear-out of tips will increase drastically and flux-fluid will be destroyed.

To avoid wear-out of tips, switch “off” unused equipment or reduce heat.

- Mix of lead-free soldering tin/parts with leaded soldering tin/parts is possible but PHILIPS recommends strongly **to avoid** mixed regimes. If this cannot be avoided, carefully clear the solder-joint from old tin and re-solder with new tin.

2.3.5 Alternative BOM identification

The **third digit** in the serial number (example: AG**2**B0335000001) indicates the number of the alternative B.O.M. (Bill Of Materials) that has been used for producing the specific TV set. In general, it is possible that the same TV model on the market is produced with e.g. two different types of displays, coming from two different suppliers. This will then result in sets which have the same CTN (Commercial Type Number; e.g. 28PW9515/12) but which have a different B.O.M. number.
By looking at the third digit of the serial number, one can identify which B.O.M. is used for the TV set he is working with. If the third digit of the serial number contains the number “1” (example: AG**1**B033500001), then the TV set has been manufactured according to B.O.M. number 1. If the third digit is a “2” (example: AG**2**B0335000001), then the set has been produced according to B.O.M. no. 2. ***This is important for ordering the correct spare parts!***
For the third digit, the numbers 1...9 and the characters A...Z can be used, so in total: 9 plus 26= 35 different B.O.M.s can be indicated by the third digit of the serial number.

Identification: The bottom line of a type plate gives a 14-digit serial number. Digits 1 and 2 refer to the production centre (e.g. AG is Bruges), digit 3 refers to the B.O.M. code, digit 4 refers to the Service version change code, digits 5 and 6 refer to the production year, and digits 7 and 8 refer to production week (in example below it is 2006 week 17). The 6 last digits contain the serial number.

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Figure 2-1 Serial number (example)

2.3.6 Board Level Repair (BLR) or Component Level Repair (CLR)

If a board is defective, consult your repair procedure to decide if the board has to be exchanged or if it should be repaired on component level.
If your repair procedure says the board should be exchanged completely, do not solder on the defective board. Otherwise, it cannot be returned to the O.E.M. supplier for back charging!

2.3.7 NVM content

If the processor NVM IC is replaced or initialised, the Model Number, Serial Number, and SSB Code number must be re-written to the NVM. ComPair will foresee in a possibility to do this.

2.3.8 Practical Service Precautions

- **It makes sense to avoid exposure to electrical shock.** While some sources are expected to have a possible dangerous impact, others of quite high potential are of limited current and are sometimes held in less regard.
- **Always respect voltages**. While some may not be dangerous in themselves, they can cause unexpected reactions that are best avoided. Before reaching into a powered TV set, it is best to test the high voltage insulation. It is easy to do, and is a good service precaution.

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 disassemble instructions in described order.

4.1 Cable Dressing

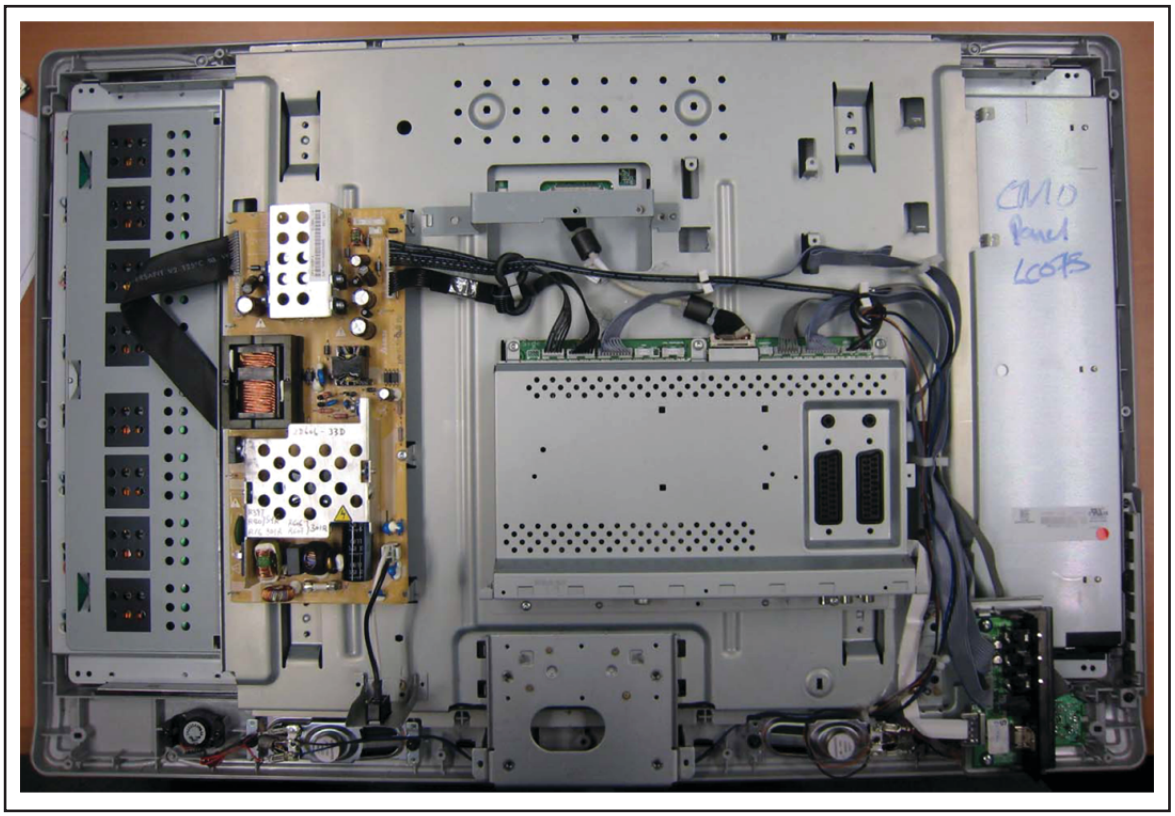

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Figure 4-1 Cable dressing (32" sets)

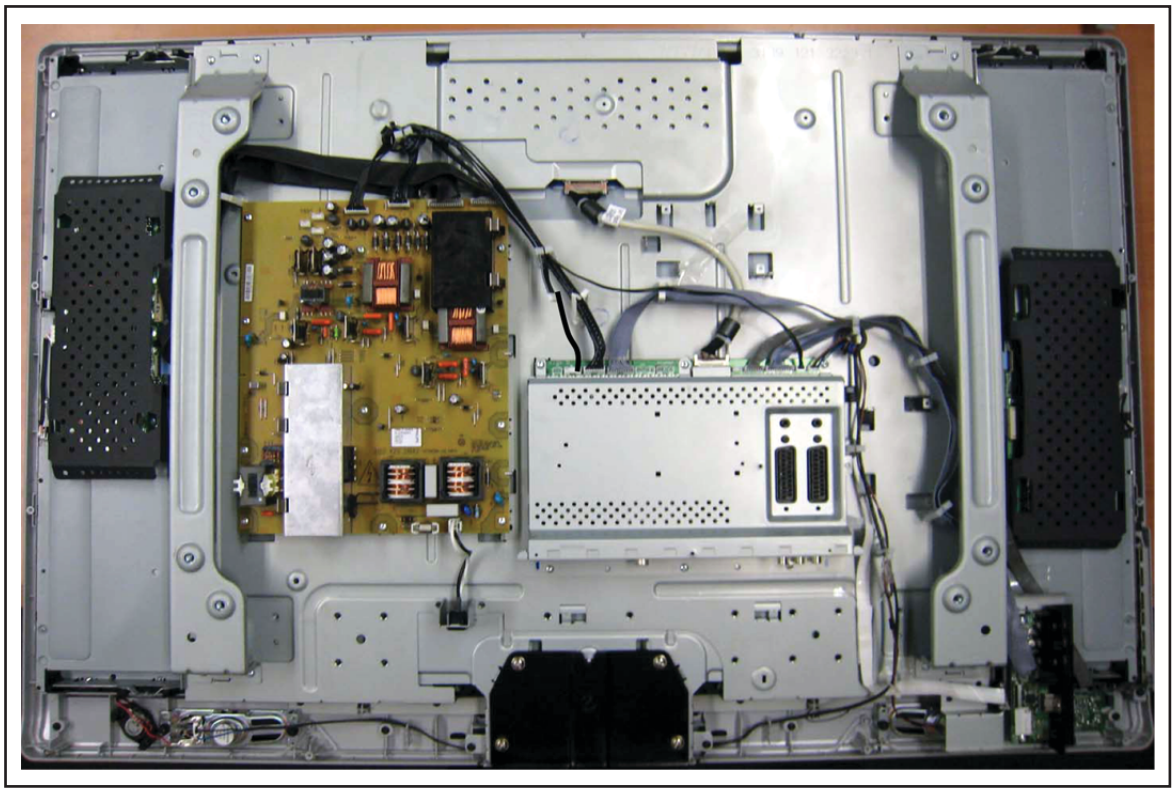

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Figure 4-2 Cable dressing (42" sets)

4.2 Service Positions

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

- The buffers from the packaging.
- Foam bars (created for Service).
- Aluminium service stands (created for Service).

Note: the aluminium service stands can only be used when the set is equipped with so-called “mushrooms”. Otherwise use the original stand that comes with the set.

4.2.1 Foam Bars

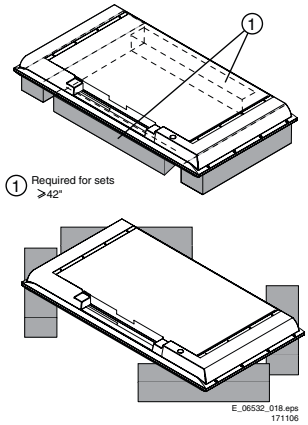

Figure 4-3 Foam bars

The foam bars (order code 3122 785 90580 for two pieces) can be used for all types and sizes of Flat TVs. See figure “Foam bars” for details.
Sets with a display of 42" and larger, require **four** foam bars [1]. Ensure that the foam bars are always supporting the cabinet and **never** only the display.
Caution: Failure to follow these guidelines can seriously damage the display!
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

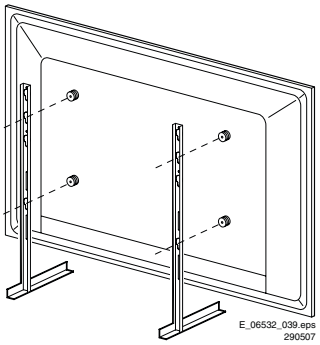

Figure 4-4 Aluminium stands

The MkII aluminium stands with order code 3122 785 90690, can also be used to do measurements, alignments, and duration tests. The stands can be (dis)mounted quick and easy by means of sliding them in/out the "mushrooms". The stands are backwards compatible with the earlier models.
Important: For (older) FTV sets without these "mushrooms", it is obligatory to use the provided screws, otherwise it is possible to damage the monitor inside!

4.3 Assy/Panel Removal

4.3.1 Rear Cover

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

1. Refer to next figures.
2. Place the TV set upside down on a table top, using the foam bars (see part “Service Positions”).
3. Remove rear cover screws [1] and the stand (if mounted).
4. Remove Subwoofer mounting screws [2] (if present).
5. Lift Subwoofer module, and unplug Subwoofer cable [3].
6. Unplug AmbiLight cables [4] (if present).
7. Remove rear cover.

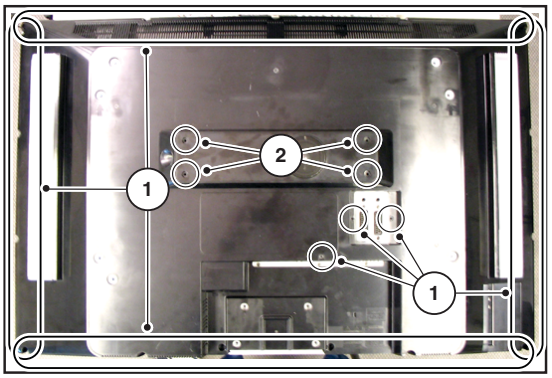

Figure 4-5 Rear cover removal (1/3)

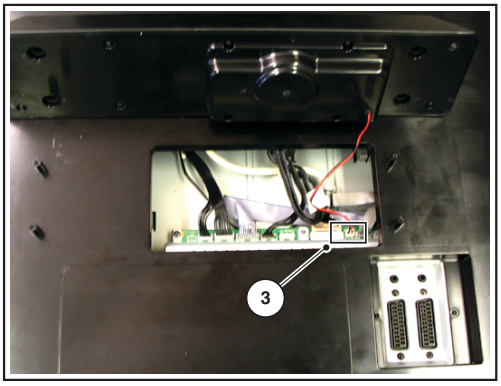

Figure 4-6 Rear cover removal (2/3)

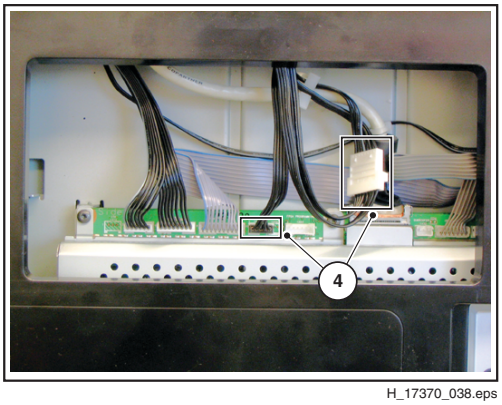

Figure 4-7 Rear cover removal (3/3)

4.3.2 AmbiLight Lamps (if present)

1. Refer to next figure.
2. Unplug connectors [1].
3. Remove the T10 parker screws [2].
4. Remove the unit by shifting it sidewards [3].

When defective, replace the whole unit.

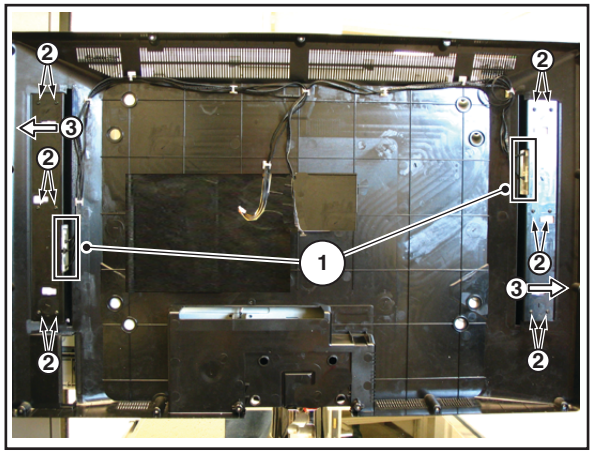

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Figure 4-8 AmbiLight lamps

4.3.3 Keyboard Control Panel

1. Refer to next figure.
2. Unplug connector [2].
3. Remove the T10 parker screws [1].
4. Remove the unit.
5. Release clips [3] and remove the board.

When defective, replace the whole unit.

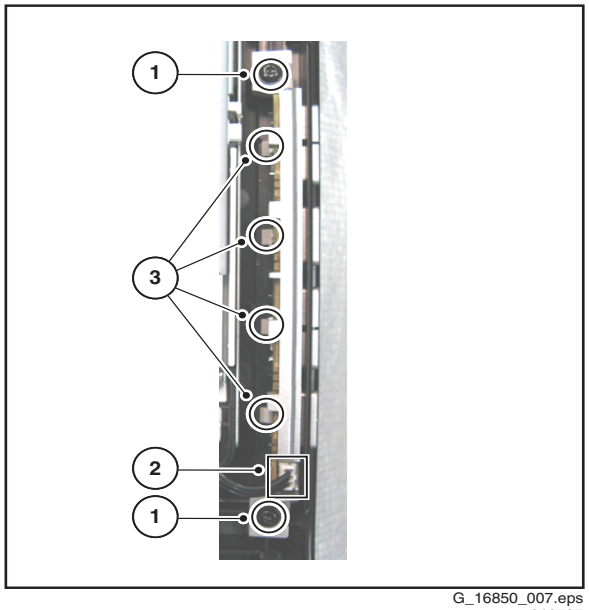

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Figure 4-9 Keyboard control panel

4.3.4 Side I/O Panel

1. Refer to next figures.
2. Unplug connectors [1]. To release the flatcable connector [1b], push the two side levers and unplug the connector.
3. Remove screws [2] and remove the complete module [3].

When defective, replace the whole unit.

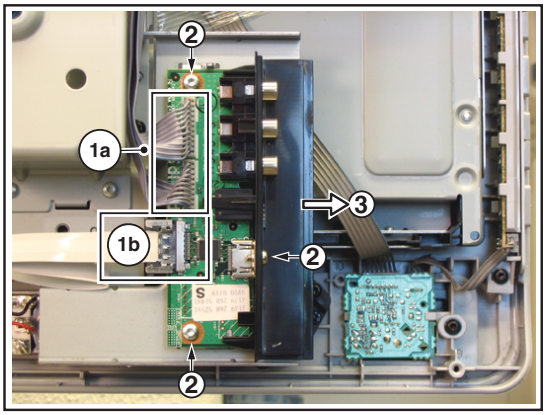

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Figure 4-10 Side I/O module (1/2)

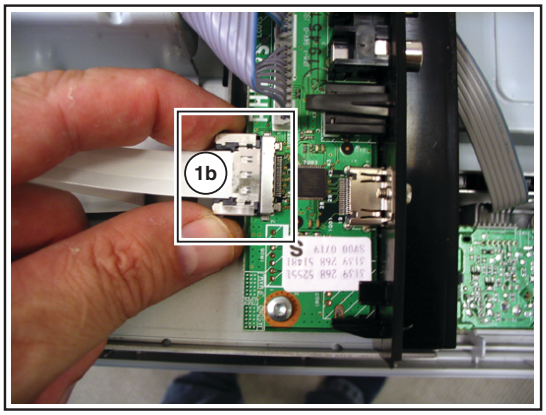

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Figure 4-11 Side I/O module (2/2)

4.3.5 IR/LED Panel

1. Refer to next figure.
2. Unplug connectors [1].
3. Release clip [2] and remove the board.

When defective, replace the whole unit.

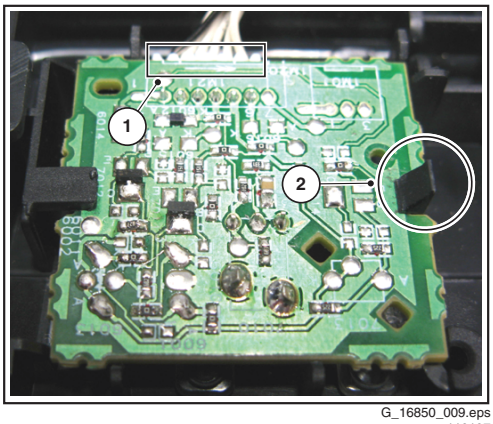

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Figure 4-12 IR/LED panel

4.3.6 Speakers

Unplug the speaker cables and remove the speaker.

4.3.7 Main Supply Panel

1. Unplug cables.
2. Remove the fixation screws.
3. Take the board out (it hinges at the left side).

When defective, replace the whole unit.

4.3.8 Small Signal Board (SSB)

Note: Follow sequence below closely, otherwise you will have difficulties with removing the top shielding.

1. Refer to next figures.
2. Disconnect all cables [1] on the SSB.
3. Remove the T10 tapping screws [2] that hold the SSB.
4. Remove the screws [3] that hold the connectors and the connector plate.
5. Lift the complete SSB from the set (including the shielding and connector plate).
6. Now, remove the connector plate first, by pulling it away from the connectors.
7. Then, lift the top shielding from the SSB.

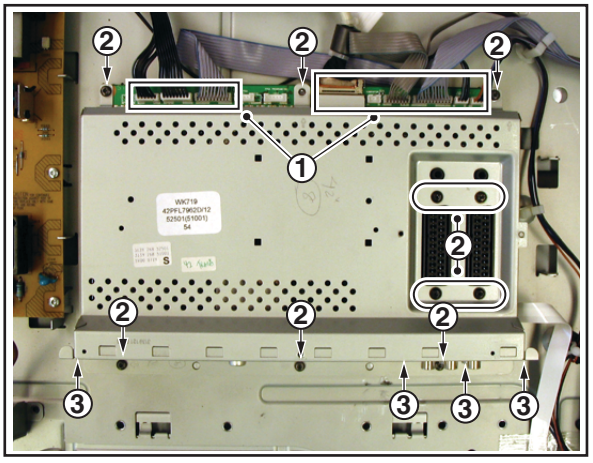

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Figure 4-13 SSB removal (1/2)

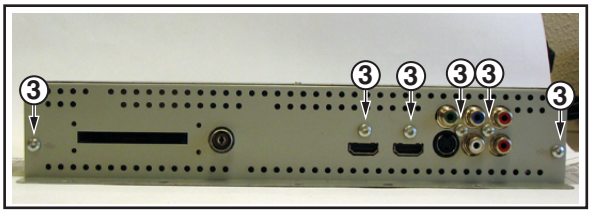

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Figure 4-14 SSB removal (2/2)

4.3.9 LCD Panel

1. Refer to next figures.
2. Unplug the connectors [1] on the Main Supply Panel, the display (LVDS connector), Loudspeakers, and the LED/IR board.
3. **Do NOT forget** to unplug the LVDS connector from the SSB. **Important:** Be careful, as this is a fragile connector!
4. Remove T10 parker screws [2] on the top and bottom of the central sub-frame.
5. Remove the T20 panel fixation screws [3]. Note that the number of these screws can vary, depending on the screensize.
6. Lift he complete central sub-frame from the set [4] (incl. the PSU, SSB, and Side I/O boards and wiring).
7. After removing the sub-frame, the LCD panel can be lifted from the front cabinet.

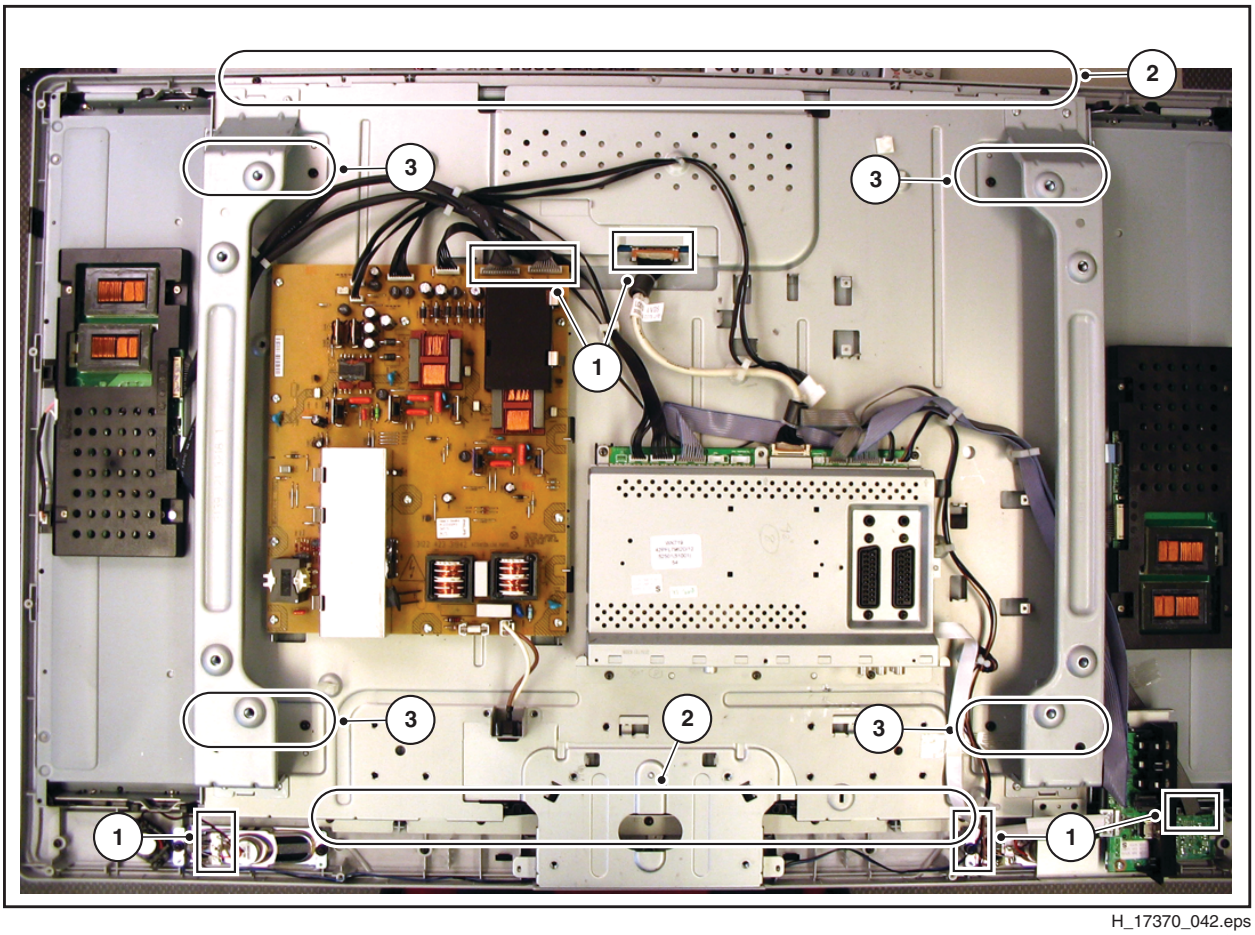

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Figure 4-15 LCD panel (1/3)

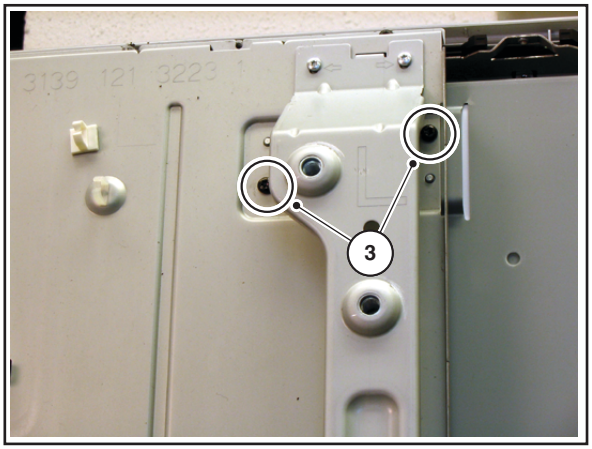

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Figure 4-16 LCD panel (2/3)

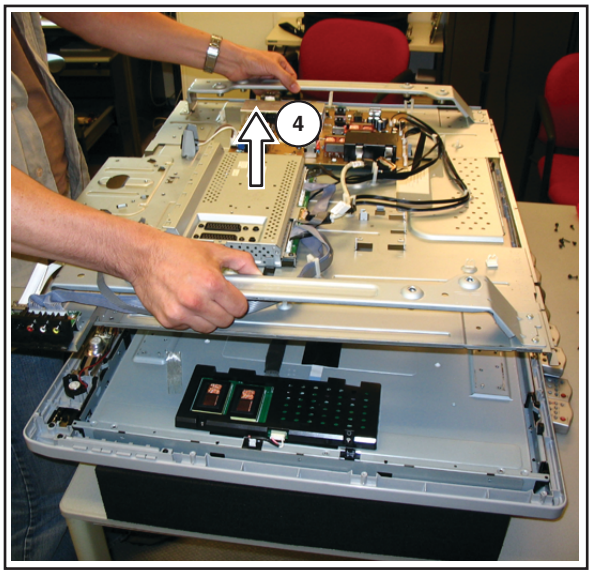

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Figure 4-17 LCD panel (3/3)

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 position. See figure "Cable dressing".
- Pay special attention not to damage the EMC foams. Ensure that EMC foams are mounted correctly (one is located above the LVDS connector on the display, between the LCD display and the metal sub-frame).

5. Service Modes, Error Codes, and Fault Finding

Index of this chapter:

5.1 Test Points
5.2 Service Modes
5.3 Service Tools
5.4 Error Codes
5.5 The Blinking LED Procedure
5.6 Software Upgrading
5.7 Fault Finding and Repair Tips

5.1 Test Points

In the chassis schematics and layout overviews, the test points (Fxxx) are mentioned. In the schematics, test points are indicated with a rectangular box around “Fxxx” or “Ixxx”, in the layout overviews with a “half-moon” sign.
As most signals are digital, it will be difficult to measure waveforms with a standard oscilloscope. Several key ICs are capable of generating test patterns, which can be controlled via ComPair. In this way it is possible to determine which part is defective.

Perform measurements under the following conditions:
- Service Default Mode.
- Video: Colour bar signal.
- Audio: 3 kHz left, 1 kHz right.

5.2 Service Modes

The Service Mode feature is split into four parts:
- Service Default Mode (SDM).
- Service Alignment Mode (SAM).
- Customer Service Mode (CSM) and Digital Customer Service Mode (DCSM).
- Computer Aided Repair Mode (ComPair).

SDM and SAM offer features, which can be used by the Service engineer to repair/align a TV set. Some features are:
- A pre-defined situation to ensure measurements can be made under uniform conditions (SDM).
- Activates the blinking LED procedure for error identification when no picture is available (SDM).
- The possibility to overrule software protections when SDM was entered via the Service pins.
- Make alignments (e.g. white tone), (de)select options, enter options codes, reset the error buffer (SAM).
- Display information (“SDM” or “SAM” indication in upper right corner of screen, error buffer, software version, operating hours, options and option codes, sub menus).

The (D)CSM is a Service Mode that can be enabled by the consumer. The CSM displays diagnosis information, which the customer can forward to the dealer or call centre. In CSM mode, “CSM”, is displayed in the top right corner of the screen. The information provided in CSM and the purpose of CSM is to:
- Increase the home repair hit rate.
- Decrease the number of nuisance calls.
- Solved customers' problem without home visit.

ComPair Mode is used for communication between a computer and a TV on I2C /UART level and can be used by a Service engineer to quickly diagnose the TV set by reading out error codes, read and write in NVMs, communicate with ICs and the uP (PWM, registers, etc.), and by making use of a fault finding database. It will also be possible to up and download the software of the TV set via I2C with help of ComPair. To do this, ComPair has to be connected to the TV set via the ComPair connector, which will be accessible through the rear of the set (without removing the rear cover).

5.2.1 General

Some items are applicable to all Service Modes or are general. These are listed below.

Life Timer
During the life time cycle of the TV set, a timer is kept. It counts the normal operation hours (not the Stand-by hours). The actual value of the timer is displayed in SDM and CSM in a decimal value. Every two soft-resets increase the hour by +1.

Software Identification, Version, and Cluster
The software ID, version, and cluster will be shown in the main menu display of SDM, SAM, and CSM.
The screen will show: “**AAAABCD X.YY**”, where:
- **AAAA** is the chassis name: LC71 for analogue range (non-DVB), LC72 for digital range (DVB).
- **B** is the region indication: E= Europe, A= AP/China, U= NAFTA, L= LATAM.
- **C** is the display indication: L= LCD, P= Plasma.
- **D** is the language/feature indication: 1= standard, H= 1080p full HD.
- **X** is the main version number: this is updated with a major change of specification (incompatible with the previous software version). Numbering will go from 1 - 9 and A - Z.
  - If the main version number changes, the new version number is written in the NVM.
  - If the main version number changes, the default settings are loaded.
- **YY** is the sub version number: this is updated with a minor change (backwards compatible with the previous versions) Numbering will go from 00 - 99.
  - If the sub version number changes, the new version number is written in the NVM.
  - If the NVM is fresh, the software identification, version, and cluster will be written to NVM.

Display Option Code Selection
When after an SSB or display exchange, the display option code is not set properly, it will result in a TV with “no display”. Therefore, **it is required** to set this display option code after such a repair.
To do so, press the following key sequence on a standard RC transmitter: “**062598**” directly followed by **MENU** and “**xxx**”, where “xxx” is a 3 digit decimal value of the panel type: see column “Panel Code” in table “Option Codes OP1...OP7” (ch. 8), or see sticker on the side/bottom of the cabinet. When the value is accepted and stored in NVM, the set will switch to Stand-by, to indicate that the process has been completed.

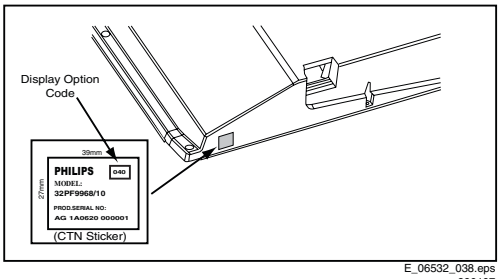

Figure 5-1 Location of Display Option Code sticker

During this algorithm, the NVM-content must be filtered, because several items in the NVM are TV-related and not SSB-related (e.g. Model and Prod. S/N). Therefore, “Model” and “Prod. S/N” data is changed into “See Type Plate”.
In case a call centre or consumer reads “See Type Plate” in CSM mode, he needs to look to the side/bottom sticker to identify the set, for further actions.

5.2.2 Service Default Mode (SDM)

Purpose

Set the TV in SDM mode in order to be able to:

- Create a pre-defined setting for measurements to be made.
- Override software protections.
- Start the blinking LED procedure.
- Read the error buffer.
- Check the life timer.

Specifications

Table 5-1 SDM default settings

Region	Freq. (MHz)	Default syst.
Europe (except France), AP-PAL/-Multi	475.25	PAL B/G
France		SECAM L
NAFTA, AP-NTSC	61.25 (channel 3)	NTSC M
LATAM		PAL M

- Set linear video and audio settings to 50%, but volume to 25%. Stored user settings are not affected.
- All service-unfriendly modes (if present) are disabled, since they interfere with diagnosing/repairing a set. These service unfriendly modes are:
  - (Sleep) timer.
  - Blue mute/Wall paper.
  - Auto switch “off” (when there is no “ident” signal).
  - Hotel or hospital mode.
  - Child lock or parental lock (manual or via V-chip).
  - Skipping, blanking of “Not favourite”, “Skipped” or “Locked” presets/channels.
  - Automatic storing of Personal Preset or Last Status settings.
  - Automatic user menu time-out (menu switches back/ OFF automatically.
  - Auto Volume levelling (AVL).

How to Activate

To activate SDM, use **one** of the following methods:

- Press the following key sequence on the remote control transmitter: “**062596**” directly followed by the **MENU** button (do not allow the display to time out between entries while keying the sequence).
- Short one of the “Service” jumpers on the TV board during cold start (see Figures “Service jumper”). Then press the mains button (remove the short after start-up).
  Caution: Activating SDM by shorting “Service” jumpers will override the DC speaker protection (error 1), the General I2C error (error 4), and the Trident video processor error (error 5). When doing this, the service-technician must know exactly what he is doing, as it could damage the television set.

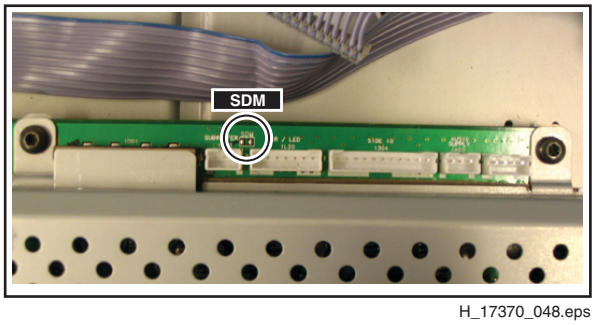

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Figure 5-2 Service jumper (SSB component side)

On Screen Menu

After activating SDM, the following screen is visible, with SDM in the upper right corner of the screen to indicate that the television is in Service Default Mode.

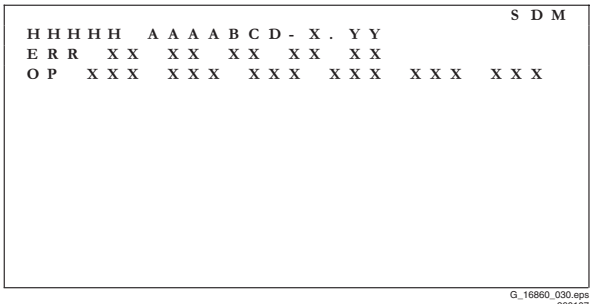

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Figure 5-3 SDM menu

Menu explanation:

- **HHHHH**: Are the operating hours (in decimal).
- **AAAABCD-X.YY**: See paragraph “Service Modes” -> “General” -> “Software Identification, Version, and Cluster” for the SW name definition.
- **SDM**: The character “SDM” to indicate that the TV set is in Service mode.
- **ERR**: Shows all errors detected since the last time the buffer was erased. Five errors possible.
- **OP**: Used to read-out the option bytes. See “Options” in the Alignments section for a detailed description. Seven codes are possible.

How to Navigate

As this mode is read only, there is not much to navigate. To switch to other modes, use one of the following methods:

- Command MENU from the user remote will enter the normal user menu (brightness, contrast, colour, etc...) with “SDM” OSD remaining, and pressing MENU key again will return to the last status of SDM again.
- To prevent the OSD from interfering with measurements in SDM, command “OSD” (“STATUS” for NAFTA and LATAM) from the user remote will toggle the OSD “on/off” with “SDM” OSD remaining always “on”.
- Press the following key sequence on the remote control transmitter: “**062596**” directly followed by the **OSD/i+** button to switch to SAM (do not allow the display to time out between entries while keying the sequence).

How to Exit

Switch the set to STANDBY by pressing the mains button on the remote control transmitter or on the television set.
If you switch the television set “off” by removing the mains (i.e., unplugging the television), the television set will remain in SDM when mains is re-applied, and the error buffer is not cleared. The error buffer will only be cleared when the “clear” command is used in the SAM menu.

Note:

- If the TV is switched “off” by a power interrupt while in SDM, the TV will show up in the last status of SDM menu as soon as the power is supplied again. The error buffer will not be cleared.
- In case the set is in Factory mode by accident (with “F” displayed on screen), by pressing and hold “VOL-“ and “CH-” together should leave Factory mode.

5.2.3 Service Alignment Mode (SAM)

Purpose
- To change option settings.
- To display / clear the error code buffer.
- To perform alignments.

Specifications
- Operation hours counter (maximum five digits displayed).
- Software version, error codes, and option settings display.
- Error buffer clearing.
- Option settings.
- Software alignments (Tuner, White Tone, and Audio).
- NVM Editor.
- ComPair Mode switching.
- Set the screen mode to full screen (all contents on screen are viewable).

How to Activate
To activate SAM, use one of the following methods:
- Press the following key sequence on the remote control transmitter: "**062596**" directly followed by the **OSD/ STATUS/INFO/i+** button (it depends on region which button is present on the RC). Do not allow the display to time out between entries while keying the sequence.
- Or via ComPair.

After entering SAM, the following screen is visible, with SAM in the upper right corner of the screen to indicate that the television is in Service Alignment Mode.

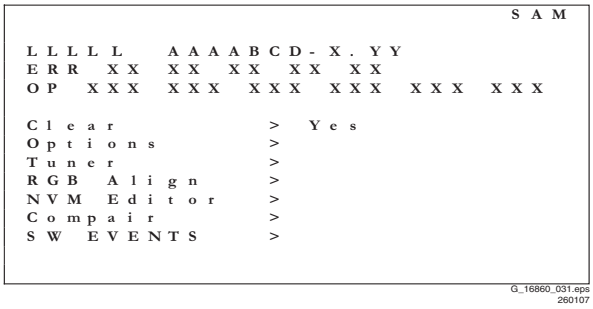

Figure 5-4 SAM menu

Menu explanation:
1. **LLLLL.** This represents the run timer. The run timer counts normal operation hours, but does not count Stand-by hours.
2. **AAAABCD-X.YY.** See paragraph "Service Modes" -> "General" -> "Software Identification, Version, and Cluster" for the SW name definition.
3. **SAM.** Indication of the Service Alignment Mode.
4. **ERR (ERRor buffer).** Shows all errors detected since the last time the buffer was erased. Five errors possible.
5. **OP (Option Bytes).** Used to read-out the option bytes. See "Options" in the Alignments section for a detailed description. Seven codes are possible.
6. **Clear.** Erases the contents of the error buffer. Select the CLEAR menu item and press the MENU RIGHT key. The content of the error buffer is cleared.
7. **Options.** Used to set the option bits. See "Options" in the "Alignments" chapter for a detailed description.
8. **Tuner.** Used to align the tuner. See "Tuner" in the "Alignments" chapter for a detailed description.
9. **RGB Align.** Used to align the White Tone. See "White Tone" in the "Alignments" chapter for a detailed description.
10. **NVM Editor.** Can be used to change the NVM data in the television set. See also paragraph "Fault Finding and Repair Tips" further on.
11. **ComPair.** Can be used to switch the television to "In Application Programming" mode (IAP), for software uploading via ComPair. Read paragraph "Service Tools" -> "ComPair". **Caution:** When this mode is selected without ComPair connected, the TV will be blocked. Remove the AC power to reset the TV.
12. **SW Events.** Only to be used by development to monitor SW behaviour during stress test.

How to Navigate
- In the SAM menu, select menu items with the MENU UP/ DOWN keys on the remote control transmitter. The selected item will be indicated. When not all menu items fit on the screen, use the MENU UP/DOWN keys to display the next / previous menu items.
- With the MENU LEFT/RIGHT keys, it is possible to:
  - Activate the selected menu item.
  - Change the value of the selected menu item.
  - Activate the selected sub menu.
- When you press the MENU button twice while in top level SAM, the set will switch to the normal user menu (with the SAM mode still active in the background). To return to the SAM menu press the MENU button.
- Command "OSD/i+" key from the user remote will toggle the OSD "on/off" with "SAM" OSD remaining always "on".
- Press the following key sequence on the remote control transmitter: "**062596**" directly followed by the **MENU** button to switch to SDM (do not allow the display to time out between entries while keying the sequence).

How to Store SAM Settings
To store the settings changed in SAM mode (except the OPTIONS settings), leave the top level SAM menu by using the POWER button on the remote control transmitter or the television set.

How to Exit
Switch the set to STANDBY by pressing the mains button on the remote control transmitter or the television set.

Note:
- When the TV is switched "off" by a power interrupt while in SAM, the TV will show up in "normal operation mode" as soon as the power is supplied again. The error buffer will not be cleared.
- In case the set is in Factory mode by accident (with "F" displayed on screen), by pressing and hold "VOL-" and "CH-" together should leave Factory mode.

5.2.4 Customer Service Mode (CSM)

Purpose

The Customer Service Mode shows error codes and information on the TV's operation settings. A call centre can instruct the customer (by telephone) to enter CSM in order to identify the status of the set. This helps them to diagnose problems and failures in the TV before making a service call. The CSM is a read-only mode; therefore, modifications are not possible in this mode.

Specifications

- Ignore "Service unfriendly modes".
- Line number for every line (to make CSM language independent).
- Set the screen mode to full screen (all contents on screen are viewable).
- After leaving the Customer Service Mode, the original settings are restored.
- Possibility to use "CH+" or "CH-" for channel surfing, or enter the specific channel number on the RC.

How to Activate

To activate CSM, press the following key sequence on the remote control transmitter: "**123654**" (do not allow the display to time out between entries while keying the sequence).

Upon entering the Customer Service Mode, the following screen will appear:

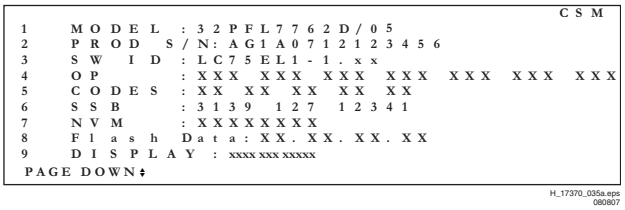

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Figure 5-5 CSM menu -1- (example)

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Figure 5-6 CSM menu -2- (example)

Menu Explanation

1. **MODEL.** Type number, e.g. 32PFL7762D/05. (*)
2. **PROD S/N.** Product serial no., e.g. AG1A0712123456. (*)
3. **SW ID.** Software cluster and version is displayed.
4. **OP.** Option code information.
5. **CODES.** Error buffer contents.
6. **SSB.** Indication of the SSB factory ID (= 12nc). (*)
7. **NVM.** The NVM software version no.
8. **Flash Data.** PQ (picture quality) and AQ (audio quality) data version. This is a sub set of the main SW.
9. **DISPLAY.** Indication of the display ID (=12 nc).
10. **TUNER.** Indicates the tuner signal condition: "Weak" when signal falls below threshold value, "Medium" when signal is at mid-range, and "Strong" when signal falls above threshold value.
11. **SYSTEM.** Gives information about the video system of the selected transmitter (PAL/SECAM/NTSC).
12. **SOUND.** Gives information about the audio system of the selected transmitter (MONO/STEREO/NICAM).
13. n.a.
14. **HDAU.** HDMI audio stream detection. "YES" means audio stream detected. "NO" means no audio stream present. Only displayed when HDMI source is selected.
15. **FORMAT.** Gives information about the video format of the selected transmitter (480i/480p/720p/1080i).
16. **L.T.** (LIFE TIMER)**.** Operating hours indication.
17. **FPGA FW.** Only applicable to sets with an FPGA.
18. **Reserved.**

(*) If an NVM IC is replaced or initialised, the Model Number, Serial Number, and SSB Code Number must be re-written to the NVM. ComPair will foresee in a possibility to do this.

How to Exit

To exit CSM, use one of the following methods:

- Press the MENU button twice, or POWER button on the remote control transmitter.
- Press the POWER button on the television set.

5.2.5 Digital Customer Service Mode (DCSM)

Purpose

The Digital Customer Service Mode shows error codes and information on the IBO Zapper module (DVB reception part) operation settings. The call centre can instruct the customer to activate DCSM by telephone and read off the information displayed. This helps the call centre to diagnose problems and failures in the IBO Zapper module before making a service call.The DCSM is a read-only mode; therefore, modifications are not possible in this mode.

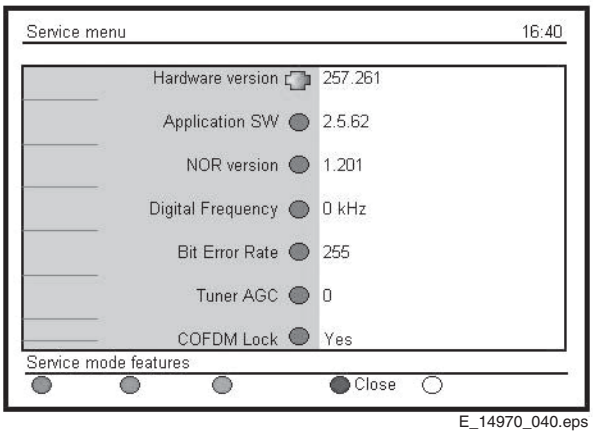
How to Activate

To activate the DCSM, put the television in its digital mode (via the "A/D" button on the remote control).

1. Press the "Digital Menu" button on the remote control to activate the digital user menu (called "Setup").
2. Activate the "Information" sub menu (via the "down" and "right" cursor buttons).
3. In the "Information" sub menu, press the following key sequence on the remote control to activate the DCSM: "**GREEN RED YELLOW 9 7 5 9**" (do not allow the display to time out between entries while keying this sequence). Then, the "Service menu" will appear (see figures below).

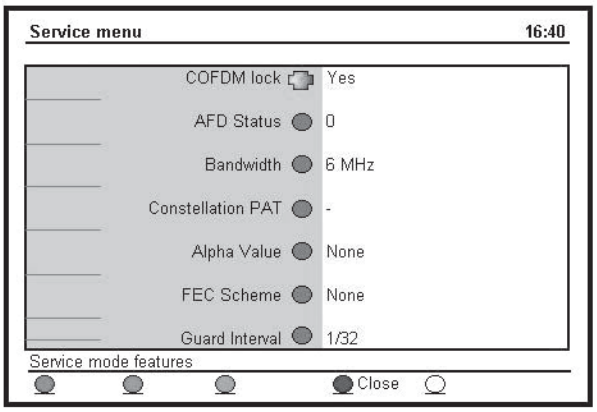
Alternative method to activate DCSM: press key sequence "**123654**" on the remote control transmitter while in digital mode (do not allow the display to time out between entries while keying the sequence). Then, the "Service menu" will appear (see figures below).

Menu explanation



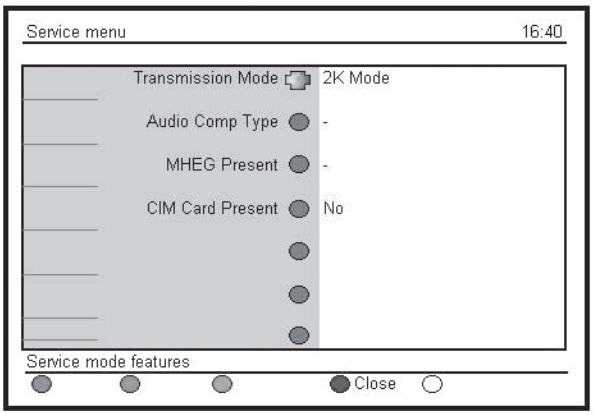
E_14970_040.eps
090904

Figure 5-7 DCSM menu - 1



E_14970_041.eps
100904

Figure 5-8 DCSM menu - 2



E_14970_042.eps
090904

Figure 5-9 DCSM menu - 3

1. **Hardware version:** This indicates the version of the IBO Zapper module hardware.
2. **Application SW:** The application software version.
3. **NOR Version:** The NOR Flash image software version
4. **Digital Frequency:** The digital frequency that the set is tuned to.
5. **Bit Error Rate:** The error rate measured before the error correction algorithm circuitry. (this value gives an impression of the received signal)
6. **Tuner AGC:** Tuner AGC value.
7. **COFDM Lock:** Indication if COFDM decoder is locked.
8. **AFD Status:** Status of the Active Picture Format Descriptor.
9. **Terrestrial Delivery System Parameters:**
   - **Bandwidth:** Bandwidth of the received signal.
   - **Constellation Pattern:** Displays the signal constellation.
   - **Alpha Value:** Displays the Alpha Value.
   - **FEC Scheme:** Displays the Forward Error Correcting Scheme
   - **Guard Interval:** Displays the value for the Guard Interval.
   - **Transmission Mode:** Displays the Transmission Mode.
10. **Audio Comp Type:** Type of detected audio stream.
11. **MHEG Present:** Indicates if MHEG is present or not.
12. **CIM Card Present:** Indicates if CIM card is present or not.

How to exit

Press the **BLUE** button on the Remote Control to exit DCSM.

5.3 Service Tools

5.3.1 ComPair

Introduction

ComPair (Computer Aided Repair) is a Service tool for Philips Consumer Electronics products. and offers the following:

1. ComPair helps you to quickly get an understanding on how to repair the chassis in a short and effective way.
2. ComPair allows very detailed diagnostics and is therefore capable of accurately indicating problem areas. You do not have to know anything about I2C or UART commands yourself, because ComPair takes care of this.
3. ComPair speeds up the repair time since it can automatically communicate with the chassis (when the uP is working) and all repair information is directly available.
4. ComPair features TV software up possibilities.

Specifications

ComPair consists of a Windows based fault finding program and an interface box between PC and the (defective) product. The (new) ComPair II interface box is connected **to the PC** via an USB cable. For the TV chassis, the ComPair interface box and the TV communicate via a bi-directional cable via the service connector(s).

How to Connect

This is described in the ComPair chassis fault finding database.

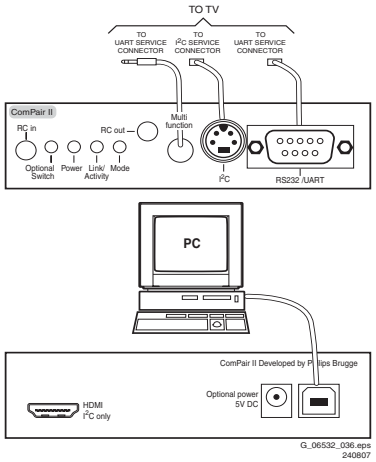


Figure 5-10 ComPair II interface connection

Caution: It is compulsory to connect the TV to the PC as shown in the picture above (with the ComPair interface in between), as the ComPair interface acts as a level shifter. If one connects the TV directly to the PC (via UART), ICs will be blown!

How to Order

ComPair II order codes:

- ComPair II interface: 3122 785 91020.
- ComPair32 CD (update): 3122 785 60160.
- ComPair I²C interface cable: 3122 785 90004 (to be used with chassis L01, A02, A10, EMX, ...).
- ComPair I²C interface extension cable: 3139 131 03791 (to be used with chassis L01, A02, A10, L04, LC4, LC7.1, LC7.2).
- ComPair UART interface cable: 3122 785 90630 (to be used with chassis LC4, EJ3, BJ2, BL2, BP2, ...).
- ComPair RS232 cable: 3104 311 12742 (to be used with chassis Q52x).
- ComPair I²C adapter cable: 3122 785 90004 (to be used with chassis TPM1.xA).
- ComPair I²C interface cable: 9965 100 07325 (to be used with chassis LC7.5).
- ComPair UART interface cable: 3138 188 75051 (to be used with chassis LC7.5).

Note: If you encounter any problems, contact your local support desk.

5.3.2 LVDS Tool

Support of the LVDS Tool has been discontinued.

5.4 Error Codes

5.4.1 Introduction

Error codes are required to indicate failures in the TV set. In principle a unique error code is available for every:
- Activated protection.
- Failing I2C device.
- General I2C error.
- SDRAM failure.

The last five errors, stored in the NVM, are shown in the Service menu's. This is called the error buffer.
The error code buffer contains all errors detected since the last time the buffer was erased. The buffer is written from left to right. When an error occurs that is not yet in the error code buffer, it is displayed at the left side and all other errors shift one position to the right.
An error will be added to the buffer if this error differs from any error in the buffer. The last found error is displayed on the left.
An error with a designated error code may **never** lead to a deadlock situation. This means that it must always be diagnosable (e.g. error buffer via OSD or blinking LED procedure, ComPair to read from the NVM).
In case a failure identified by an error code automatically results in other error codes (cause and effect), only the error code of the MAIN failure is displayed.

Example: In case of a failure of the I2C bus (CAUSE), the error code for a "General I2C failure" and "Protection errors" is displayed. The error codes for the single devices (EFFECT) is not displayed. All error codes are stored in the same error buffer (TV's NVM) except when the NVM itself is defective.

5.4.2 How to Read the Error Buffer

You can read the error buffer in 3 ways:
- On screen via the SAM/SDM/CSM (if you have a picture). Example:
  - ERROR: 0 0 0 0 0 : No errors detected
  - ERROR: 6 0 0 0 0 : Error code 6 is the last and only detected error
  - ERROR: 9 6 0 0 0 : Error code 6 was detected first and error code 9 is the last detected (newest) error
- Via the blinking LED procedure (when you have no picture). See "The Blinking LED Procedure".
- Via ComPair.

5.4.3 Error Codes

In case of non-intermittent faults, write down the errors present in the error buffer and clear the error buffer before you begin the repair. This ensures that old error codes are no longer present.
If possible, check the entire contents of the error buffer. In some situations, an error code is only the result of another error and not the actual cause of the problem (for example, a fault in the protection detection circuitry can also lead to a protection).

Table 5-2 Error code overview

Error code[1)]	Description	Item nr.	Remarks
0	No error.		
1	DC Protection of speakers.		
2	+12V protection error.		12V missing or "low".
3	Reserved.		
4	General I2C error.		note 2
5	Trident Video Processor communication error.	7C01	When Trident IC is defective, error 10 and 14 might also be reported. Trident communicates via parallel bus, not via the I2C bus. The I2C bus of Trident is only used in ComPair mode.
6	I2C error while communicating with the NVM.	7L23	The TV will not start-up due to critical data not available from the NVM, but the LED will blink the error code.
7	I2C error while communicating with the Tuner.	1101	
8	I2C error while communicating with the IF Demodulator.	7113	
9	I2C error communicating with the Sound Processor.	7411	
10	SDRAM defective.	7D01	
11	I2C error while communicating with the HDMI IC.	7N01	
12	I2C error while communicating with the MOJO PNX8314.	7H03	if applicable
13	DVB HW communication error.	7F01, 7K00, 7H03	if applicable
14	SDRAM defective.	7D02	
15	I2C error while communicating with the IBO COFDM channel decoder.	7F01	
16	I2C error while communicating with the IBO NVM.	7H03	
17	I2C error while communicating with FPGA	7700 or external	
18	Reserved.		(iTV)
19	Reserved.		(1080p bolt-on module)
20	I2C error while communicating with the IBO PCMCIA controller.	7K00	
21	I2C error while communicating with the HDMI mux IC	7M07	
22	I2C error while communicating with the HDMI buffer in Side A/V Panel		
23	Reserved.		

Notes
1. Some of the error codes reported are depending on the option code configurations.
2. This error means: no I2C device is responding to the particular I2C bus. Possible causes: SCL/SDA shorted to GND, SCL shorted to SDA, or SCL/SDA open (at uP pin). The internal bus of the Trident platform should not cause the entire system to halt as such an error can be reported.

5.4.4 How to Clear the Error Buffer

The error code buffer is cleared in the following cases:
- By using the CLEAR command in the SAM menu:
  - To enter SAM, press the following key sequence on the remote control transmitter: "**062596**" directly followed by the OSD/i+ button (do not allow the display to time out between entries while keying the sequence).
  - Make sure the menu item CLEAR is selected. Use the MENU UP/DOWN buttons, if necessary.
  - Press the MENU RIGHT button to clear the error buffer. The text on the right side of the "CLEAR" line will change from "CLEAR?" to "CLEARED"
- If the contents of the error buffer have not changed for 50 hours, the error buffer resets automatically.

Note: If you exit SAM by disconnecting the mains from the television set, the error buffer is not reset.

5.5 The Blinking LED Procedure

5.5.1 Introduction

The software is capable of identifying different kinds of errors. Because it is possible that more than one error can occur over time, an error buffer is available, which is capable of storing the last five errors that occurred. This is useful if the OSD is not working properly.

Errors can also be displayed by the blinking LED procedure. The method is to repeatedly let the front LED pulse with as many pulses as the error code number, followed by a period of 1.5 seconds in which the LED is “off”. Then this sequence is repeated.

Example (1): error code 4 will result in four times the sequence LED “on” for 0.25 seconds / LED “off” for 0.25 seconds. After this sequence, the LED will be “off” for 1.5 seconds. Any RC5 command terminates the sequence. Error code LED blinking is in red colour.

Example (2): the content of the error buffer is “**12 9 6 0 0**” After entering SDM, the following occurs:
- 1 long blink of 5 seconds to start the sequence,
- 12 short blinks followed by a pause of 1.5 seconds,
- 9 short blinks followed by a pause of 1.5 seconds,
- 6 short blinks followed by a pause of 1.5 seconds,
- 1 long blink of 1.5 seconds to finish the sequence,
- The sequence starts again with 12 short blinks.

5.5.2 Displaying the Entire Error Buffer

Additionally, the entire error buffer is displayed when Service Mode “SDM” is entered. In case the TV set is in protection or Stand-by: The blinking LED procedure sequence (as in SDM-mode in normal operation) must be triggered by the following RC sequence: “**MUTE**” “**062500**” “**OK**”.
In order to avoid confusion with RC5 signal reception blinking, this blinking procedure is terminated when a RC5 command is received.

To erase the error buffer, the RC command “**MUTE**” “**062599** “**OK**” can be used.

5.6 Software Upgrading

In this chassis, three SW “stacks” are used:
- TV mains SW (processor and processor NVM).
- Digital TV SW (IBO Zapper).

5.6.1 TV Main SW Upgrade

For instructions on how to upgrade the TV Main software, refer to ComPair.

5.6.2 “Digital TV” Software Upgrade

How to Upgrade Philips “Digital TV” Software (IBO Zapper):

Preparation of the Memory Device for Software Upgrade
For the procedure you will require:
1. A personal computer with web browsing capability.
2. An archive utility that supports the ZIP-format (e.g. Winzip for Windows).
3. A CompactFlash PC Card Adapter (Type II).
4. A CompactFlash (Type I) portable memory card for insertion into the PC Card Adapter. Philips recommends using Compact Flash (CF) portable memory cards with their respective PC Card Adapters (Sandisk or Kingston) with memory sizes of up to 256MB. Philips does not guarantee that other types of portable memory cards and their respective PC Card Adapters, including multi-card PC Card Adapters work on Philips Digital TV.
   Note: Only FAT16-formatted portable memory is supported. NTFS & FAT32 are not supported.

Copying of Software Image Files to the Flash Device
Copy the appropriate “FCL.img” and “IBOZ.img” to the root directory of the flash device.

Verifying the Current Version of the TV Software
Before you start the software upgrade procedure, it is advised to check what the current TV software is. The current TV software version can be seen in the “System software” menu.
1. First press the “A/D” key and then the “DIGITAL MENU” key on the remote controller to access the “Setup” menu.
2. Access the “Information” menu.
3. Access the “Current software version” menu.

Example:
The menu shows “IdtvZapper_HW260.256_SW2.0.24”. This means that the hardware version is “260.256” and the software version is “2.0.24”.

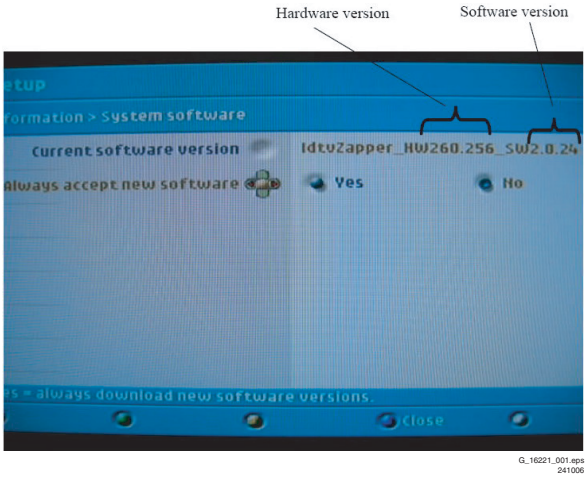


Figure 5-11 Current software version

Software Upgrade Procedure

1. Power ON your TV with the power switch at the side of the TV. Put your TV ON by using the remote controller if the TV is in Stand-by.
2. Make sure that it is in “Digital” mode (via “A/D” button).
3. Make sure that your TV is not in Stand-by. Power OFF your TV **with the power switch of the TV**.
4. Remove the Conditional Access Module (if any) from the CI-slot.
5. Insert the PC Card Adapter with the portable memory card containing the software upgrade files.
6. Switch ON your TV with the power switch at the side of the TV.
7. At start-up, the TV will scan the CI slot until it finds the update content. The TV will automatically go to the upgrade mode. After a few seconds it will display the status of the upgrade procedure.

Warnings:
Do NOT remove the memory card or the PC card adapter during the software upgrade procedure.
In case of a power drop during the upgrade procedure, don’t remove the portable memory from the TV. The TV will continue the upgrade as soon as the power comes back.

Example: At start-up of the TV, the current software is erased.

Figure 5-12 Erasure of the software

If the erasure is successful, the programming will start.

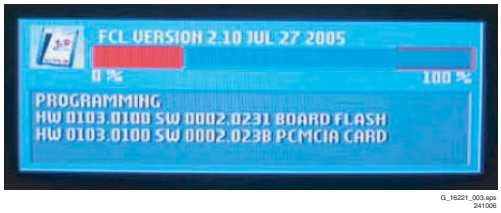


Figure 5-13 Programming of the software

Example: The programming is completed when the progress bar reaches the 100% mark.

Figure 5-14 Programming complete

The TV will reset and the screen will go blank, after a few seconds a dialogue box will occur to inform you that the current module inserted in the CI slot is not recognized. This is normal as the slot only recognizes a Conditional Access Module during normal operation.

Example: The following dialogue box will appear after the TV is upgraded successfully:

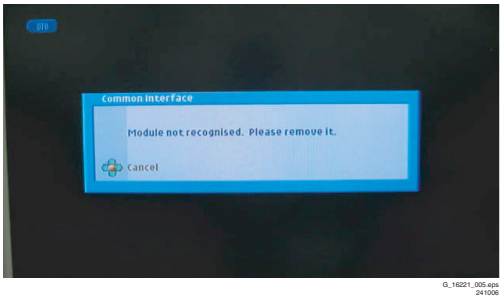


Figure 5-15 Upgrade ready

When the software upgrade has been successful, switch OFF the TV, remove the PC Card Adapter, and restart the TV with the Power switch at the side of the TV.
The TV will now start up with the new software.

Verifying that the Software Has Been Upgraded Successfully

Verify that the software is upgraded to the new version by following the procedure outlined in the section “Verifying the current version of the TV software”.

5.7 Fault Finding and Repair Tips

Notes:
- It is assumed that the components are mounted correctly with correct values and no bad solder joints.
- Before any fault finding actions, check if the correct options are set.

5.7.1 NVM Editor

In some cases, it can be convenient if one directly can change the NVM contents. This can be done with the “NVM Editor” in SAM mode. With this option, single bytes can be changed.

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!**
- Always write 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 5-3 NVM editor overview

	Hex	Dec	Description
.ADR	0x000A	10	Existing value
.VAL	0x0000	0	New value
.Store	Store?		

5.7.2 Load Default NVM Values

It is possible to download default values automatically into the NVM in case a blank NVM is placed or when the NVM first 20 address contents are "FF". After the default values are downloaded, it is possible to start-up and to start aligning the TV set. To initiate a forced default download the following action has to be performed:
1. Switch “off” the TV set with the mains cord disconnected from the wall outlet (it does not matter if this is from "Stand-by" or "Off" situation).
2. Short-circuit the SDM jumpers on the SSB (keep short circuited).
3. Press “P+” or “CH+” on the local keyboard (and keep it pressed).
4. Reconnect the mains supply to the wall outlet.
5. Release the “P+” or “CH+” when the set is “on” or blue LED is blinking.

When the downloading has completed successfully, the set should be into Stand-by, i.e. red LED on.

Alternative method (1):
1. Go to SAM.
2. Select NVM Editor.
3. Select ADR (address) to 1 (dec).
4. Change the VAL (value) to 170 (dec).
5. Store the value.
6. Do a hard reset to make sure new default values took place.

Alternative method (2):
It is also possible to upload the default values to the NVM with ComPair in case the SW is changed, the NVM is replaced with a new (empty) one, or when the NVM content is corrupted. After replacing an EEPROM (or with a defective/no EEPROM), default settings should be used to enable the set to start-up and allow the Service Default Mode and Service Alignment Mode to be accessed.

5.7.3 Start-up/Shut-down Flowcharts

Important note for DVB sets:
- When you put a DVB set into Stand-by mode **with an RC**, the set will go to “Semi Stand-by” mode for 5 minutes. This, to facilitate “Off the Air download” (OAD). If there is no activity within these 5 minutes, the set will switch to Stand-by mode. In “Semi Stand-by” mode, the LCD backlight and Audio Amplifier are turned “off” but other circuits still work as normal. The customer might think the set is in Stand-by. However, in real Stand-by mode, only the uP and the NVM are alive and all other circuits are switched “off”.
- If you press t**he mains switch** at the local key board in a DVB set, the set will switch to Stand-by mode.

On the next pages you will find start-up and shut-down flowcharts, which might be helpful during fault finding.
Please note that some events are only related to PDP sets, and therefore not applicable to this LCD chassis.

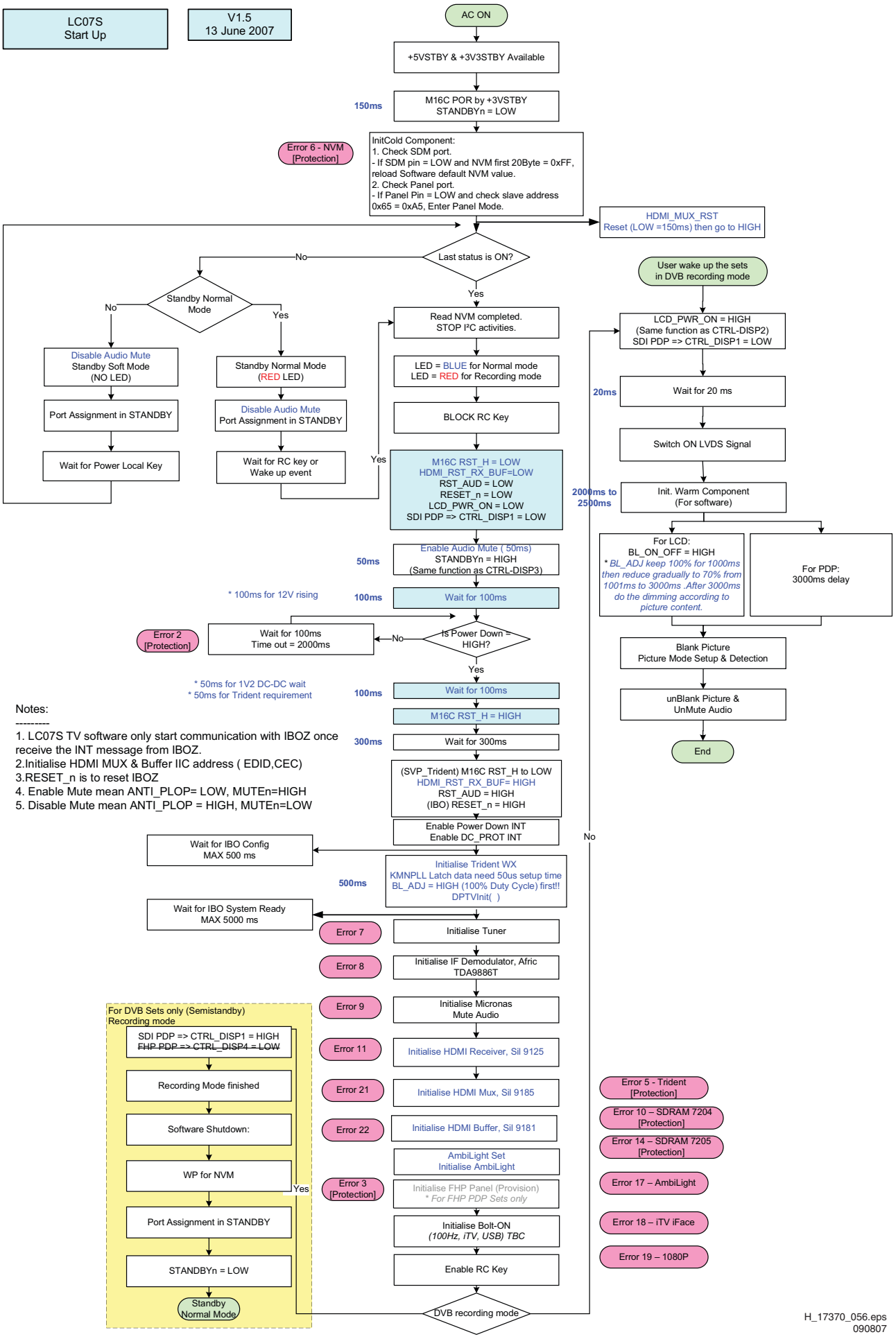


Figure 5-16 Start-up flowchart

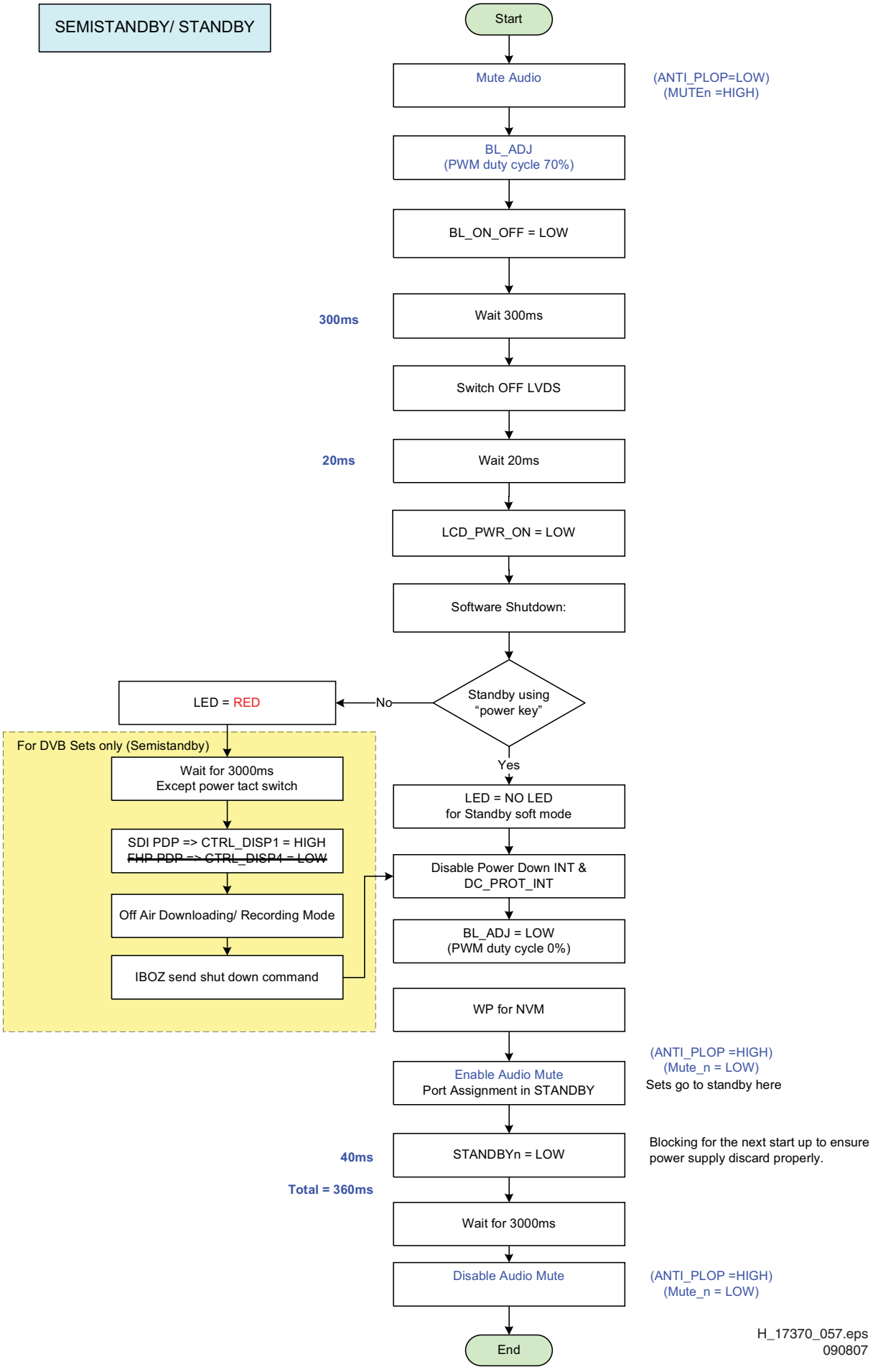
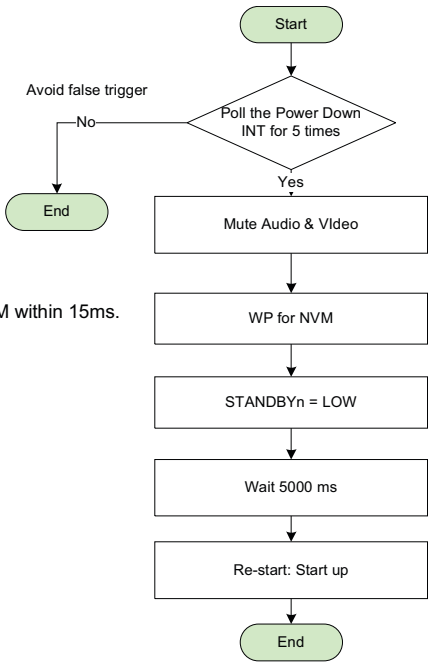


Figure 5-17 Semi Stand-by/Stand-by flowchart

Power Down INT:
AC OFF or Transient INT



Notes:
1. Power Down INT will based on fall edge triggering
2. +3V3STBY will stay for 15ms, software must perform WP for NVM within 15ms.

DC_PROT INT

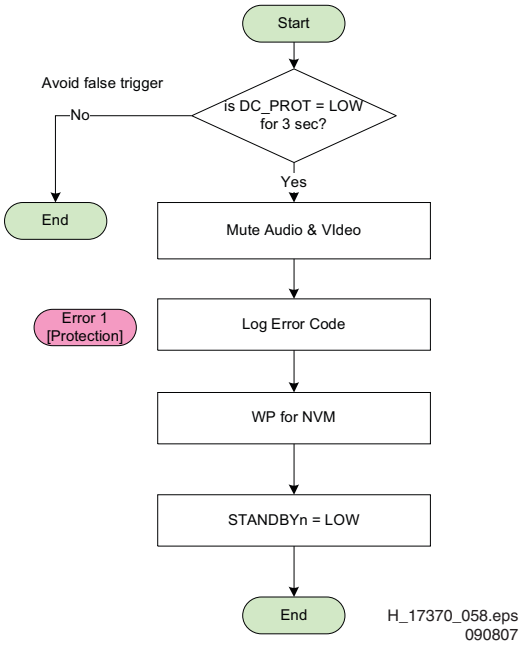


Figure 5-18 Power Down & DC_PROT flowchart

Personal Notes:

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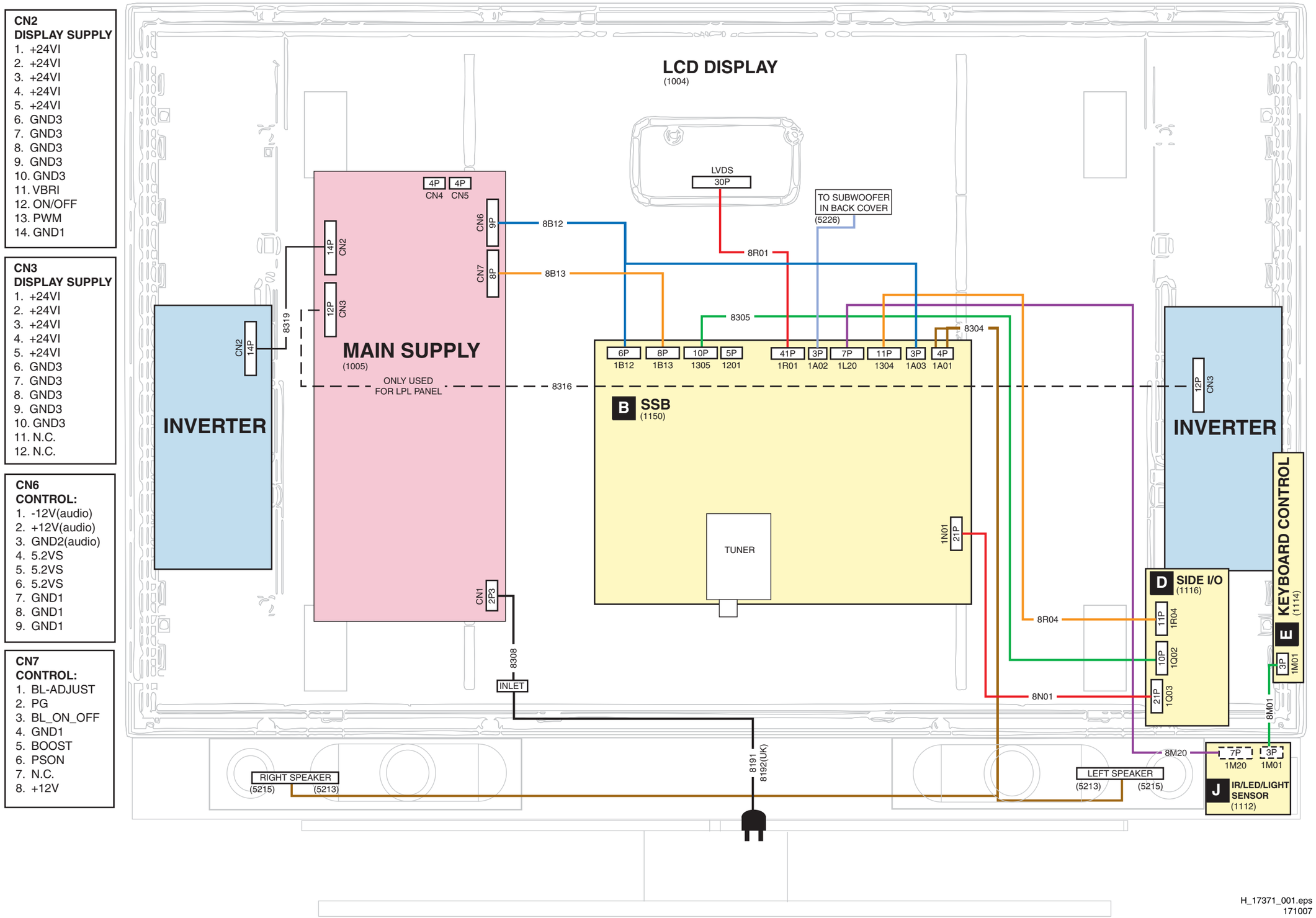
131004

6. Block Diagrams, Test Point Overviews, and Waveforms

Wiring Diagram 32" LCD (ME7)

WIRING 32" LCD (STYLING ME7)



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171007

Wiring Diagram 32” LCD with AmbiLight (ME7)

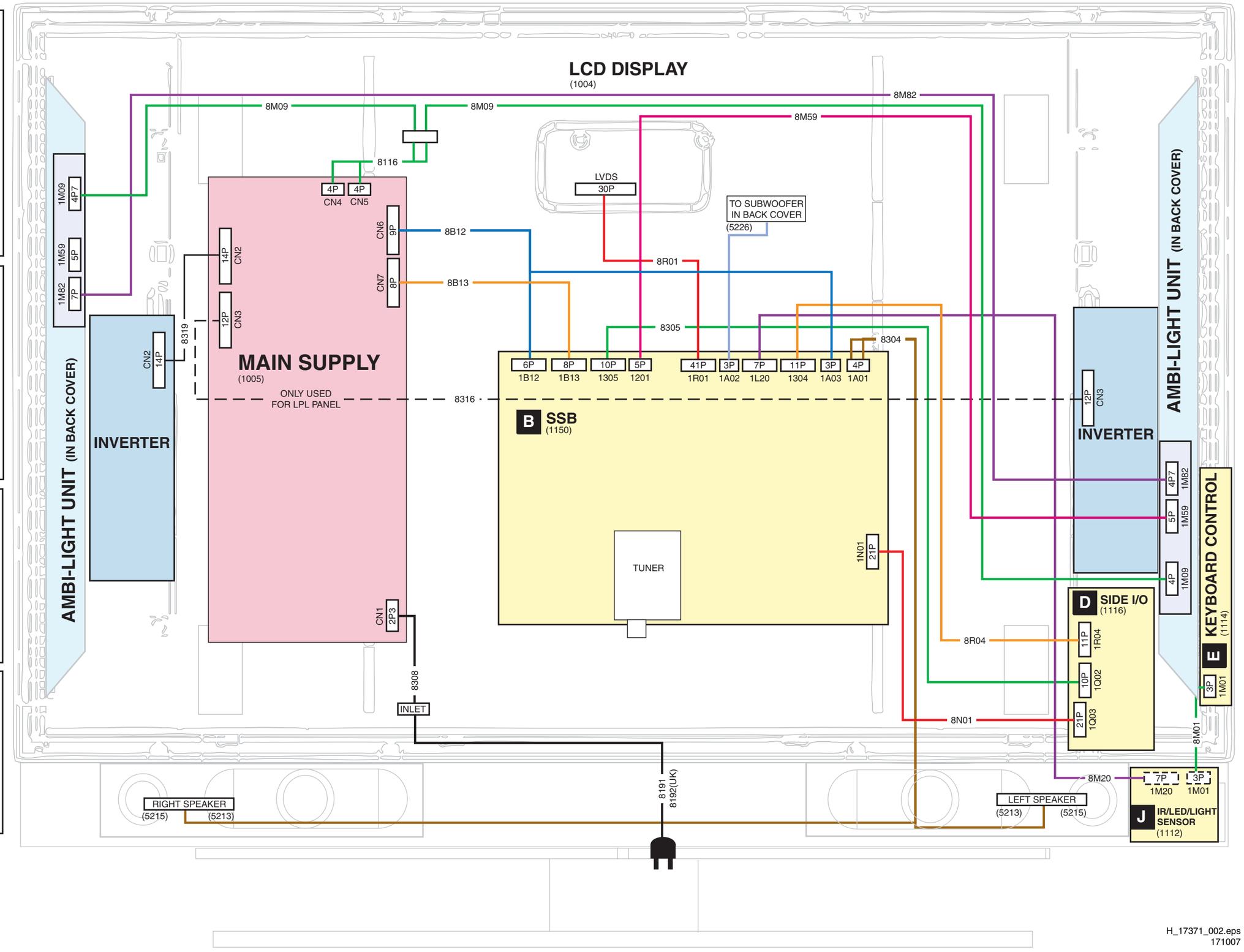
WIRING 32” LCD + AMBI LIGHT (STYLING ME7)

CN2
DISPLAY SUPPLY
1. +24VI
2. +24VI
3. +24VI
4. +24VI
5. +24VI
6. GND3
7. GND3
8. GND3
9. GND3
10. GND3
11. VBRI
12. ON/OFF
13. PWM
14. GND1

CN3
DISPLAY SUPPLY
1. +24VI
2. +24VI
3. +24VI
4. +24VI
5. +24VI
6. GND3
7. GND3
8. GND3
9. GND3
10. GND3
11. N.C.
12. N.C.

CN6
CONTROL:
1. -12V(audio)
2. +12V(audio)
3. GND2(audio)
4. 5.2VS
5. 5.2VS
6. 5.2VS
7. GND1
8. GND1
9. GND1

CN7
CONTROL:
1. BL-ADJUST
2. PG
3. BL_ON_OFF
4. GND1
5. BOOST
6. PSON
7. N.C.
8. +12V



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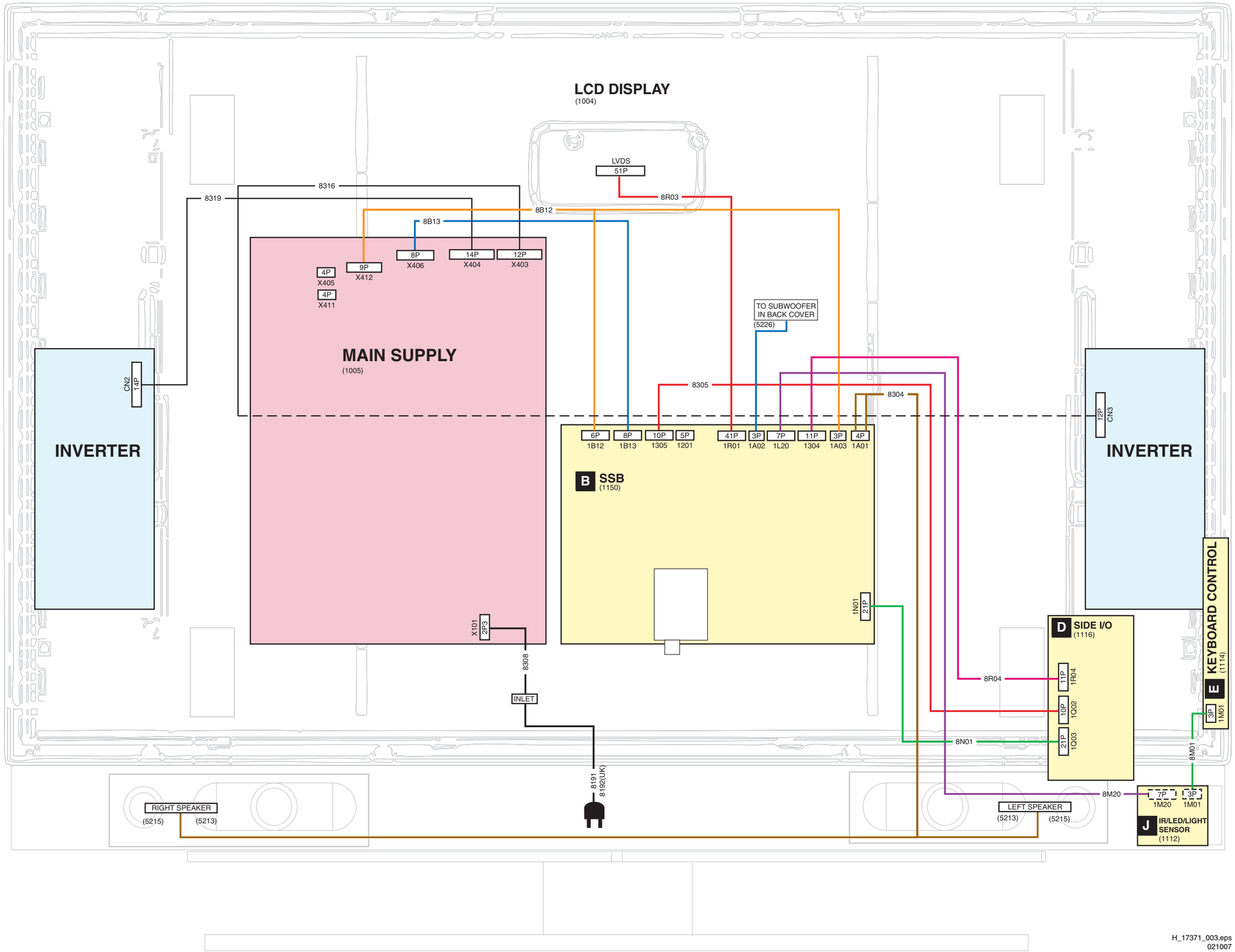
171007

Wiring Diagram 42” LCD (ME7)

WIRING 42” LCD (STYLING ME7)



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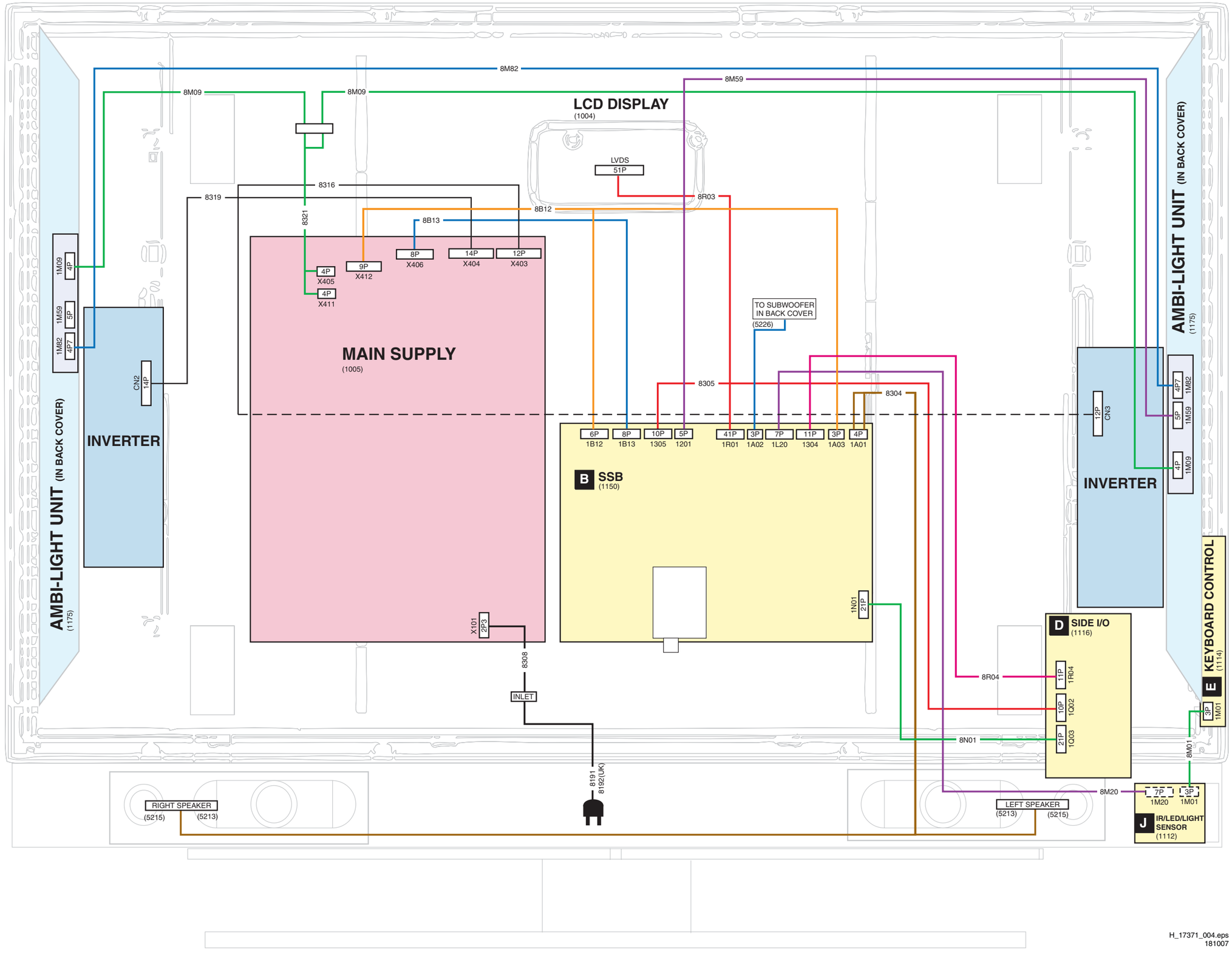
Wiring Diagram 42” LCD with AmbiLight (ME7)

WIRING 42” LCD + AMBI LIGHT (STYLING ME7)



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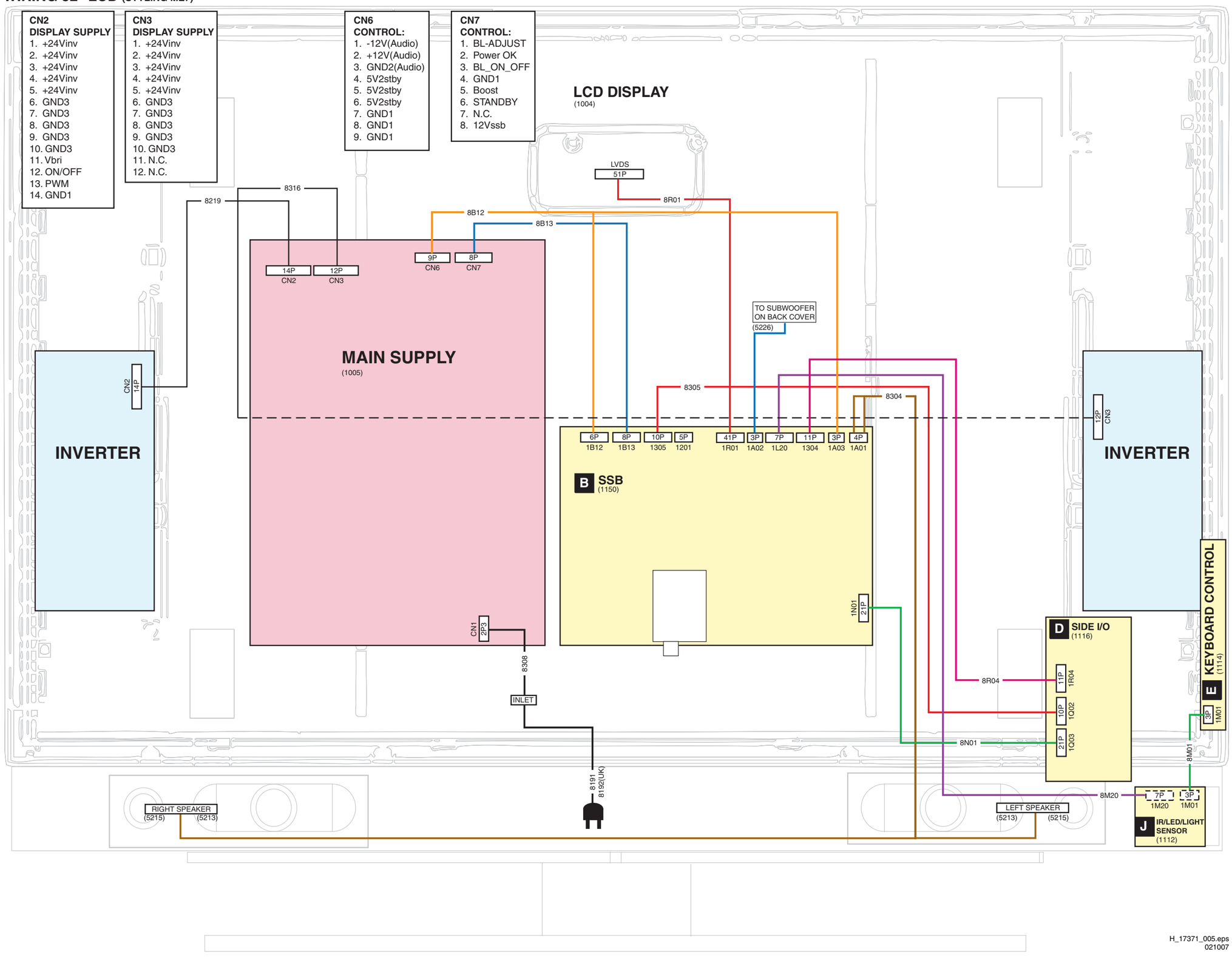
181007

Wiring Diagram 52” LCD (ME7)

WIRING 52” LCD (STYLING ME7)



H_17371_005.eps
021007

Block Diagram Video

VIDEO

B02 TUNER IF & DEMODULATOR

1101 TD1316AF/IHP-2 — MAIN TUNER (HYBRID) — IF_OUT1, RF_AGC, VIP_IBO, VIL_IBO, IF_AGC_IBO

IF_ATV → 1102 → 7113 TDA9886T/V4 DEMODULATOR (VIF1, VIF2, SUPPLY, VIF-PLL, SOUND TRAPS 4.5 to 6.5 Mhz, CVBS 17, SINGLE REFERENCE QSS MIXER INTERCARRIER MIXER AND AM-DEMODULATOR, SIF AGC, MAD, I2C-BUS TRANSCEIVER, TUNER AGC, VIF AGC, SCL, SDA)

1103 (SIF1, SIF2) → 7113 (SIF1, SIF2)

+5VS

7111: RF_AGC_IBO → B03A; RF_AGC; DVB_SW → B04

7114 EF

B03A DVB-DEMODULATOR

7F01 TDA10046AHT — COFDM CHANNEL DECODER — MPEG-TS (PARALLEL) — TDA_DAT(0-7), TDA_SYNC, COMP_OUT, RF_AGC_IBO → B02

7F04

B03B DVB-COMMON INTERFACE

7K00 STV0700L — PCMCIA CONTROLLER — TS INTERFACE — TS_DATA(0-7), TS_SYNC

B03C DVB-MOJO

7G00 PNX8314HS/C102 — MOJO — (TS), (AV)

C_CVBS, BlPb, GlY, RlPr

B03E DVB-MOJO ANALOG BACK END

CVBS_RF; 5J52 IBO_CVBS_IN; 5J54 IBO_B_IN; 5J53 IBO_G_IN; 5J55 IBO_R_IN

B05A TRIDENT - WX68

7C01 SVP WX68-7568-LF — VIDEO PROCESSOR — ANALOG MUX — LVDS OUT

CVBS_OUT1, CVBS_OUT2, PR_R2, Y_G2, PB_B2, PB_B3, FB1, PR_R3, FS2, PR_R1, Y_G1, PB_B3, Y_G3, C, FS1, PC_B, PC_G, PC_R

B05E FPGA I/O BANKS

B07E LVDS CONNECTOR

1R01 — +VDISP — LVDS CONNECTOR TO FULL HD DISPLAY

TxFPGAe_0n/0p, TxFPGAe_1n/1p, TxFPGAe_2n/2p, TxFPGAe_CLKn/CLKp, TxFPGAe_3n/3p, TxFPGAe_4n/4p

TxFPGAo_0n/0p, TxFPGAo_1n/1p, TxFPGAo_2n/2p, TxFPGAo_CLKn/CLKp, TxFPGAo_3n/3p, TxFPGAo_4n/4P

→ TxLVDSe_0n/0p, TxLVDSe_1n/1p, TxLVDSe_2n/2p, TxLVDSe_CLKn/CLKp, TxLVDSe_3n/3p, TxLVDSe_4n/4p

→ TxLVDSo_0n/0P, TxLVDSo_1n/1p, TxLVDSo_2n/2p, TxLVDSo_CLKn/CLKP, TxLVDSo_3n/3p, TxLVDSo_4n/4p

B07B IO - SCART 1 & 2

1504 EXT1: SC1_RF_OUT_CVBS, SC1_R_IN, SC1_G_IN, SC1_B_IN, SC1_CVBS_IN, SC1_FBL_IN, SC1_STATUS → B04

1506 EXT2: SC2_CVBS_MON_OUT, SC2_Y_CVBS_IN, SC2_C_IN, SC2_STATUS → B04

2x SCART

PCMCIA — CONDITIONAL ACCESS — 1K00 68P — A_MDO(0-7), A_MDI(0-7)

B07D HDMI SWITCH

7M07 SII9185ACTU — HDMI SWITCH — R2X2, R2X1, R2X0, R2XC; R1X2, R1X1, R1X0, R1XC; ODCK, DE, HSYNC, VSYNC; TXC, TX0, TX1, TX2

1M01 OPTIONAL — RX2+A, RX2-A, RX1+A, RX1-A, RX0+A, RX0-A, RXC+A, RXC-A, HPD_RESET_A

1M02 — RX2+B, RX2-B, RX1+B, RX1-B, RX0+B, RX0-B, RXC+B, RXC-B, HPD_RESET_B

1M03 — RX2+C, RX2-C, RX1+C, RX1-C, RX0+C, RX0-C, RXC+C, RXC-C, HPD_RESET_C

HDMI CONNECTOR

B07A YPBPR & SVHS

1615: Pr → HD_Pr_IN; Y → HD_Y_IN

1601: Pb → HD_Pb_IN; S VIDEO → Y_IN, C_IN

7601 — FRONT_CVBS_SVHS_Y_IN, FRONT_CVBS_SVHS_SEL → B04

D2 SIDE I/O

1302 VIDEO — FRONT_CVBS_IN — 1R04 — 1304 — FRONT_Y_CVBS_IN_T, N.C.

B04 MICROPROCESSOR

D1 SIDE HDMI

1Q01 HDMI CONNECTOR — RX2+S, RX2-S, RX1+S, RX1-S, RX0+S, RX0-S, RXC+S, RXC-S

7Q03 SII9181CNU — HDMI BUFFER — 1Q03

B07C HDMI MAIN

1N01 — HDMI-SIDE_TXC+/-, HDMI-SIDE_TX0+/-, HDMI-SIDE_TX1+/-, HDMI-SIDE_TX2+/-

7N01 SII9125CTU — HDMI (MAIN) — R1XC, R1X0, R1X1, R1X2, R0XC, R0X0, R0X1, R0X2 — ODCK, DE, HSYNC, VSYNC

HDMI-MUX_TXC+/-, HDMI-MUX_TX0+/-, HDMI-MUX_TX1+/-, HDMI-MUX_TX2+/-

HDMI_VCLK, HDMI_DE, HDMI_H, HDMI_V

HDMI_Cb(0-9), HDMI_Y(0-9), HDMI_Cr(0-9)

B05C

DIGITAL IN

MEMORY

B05B DDR & CPU

7D01 K4D261638K — SDRAM 2Mx16x4

7D02 K4D261638K — SDRAM 2Mx16x4

WX_MD(0-31) (0-15) (0-11) (16-31)

WX_MA (0-11)

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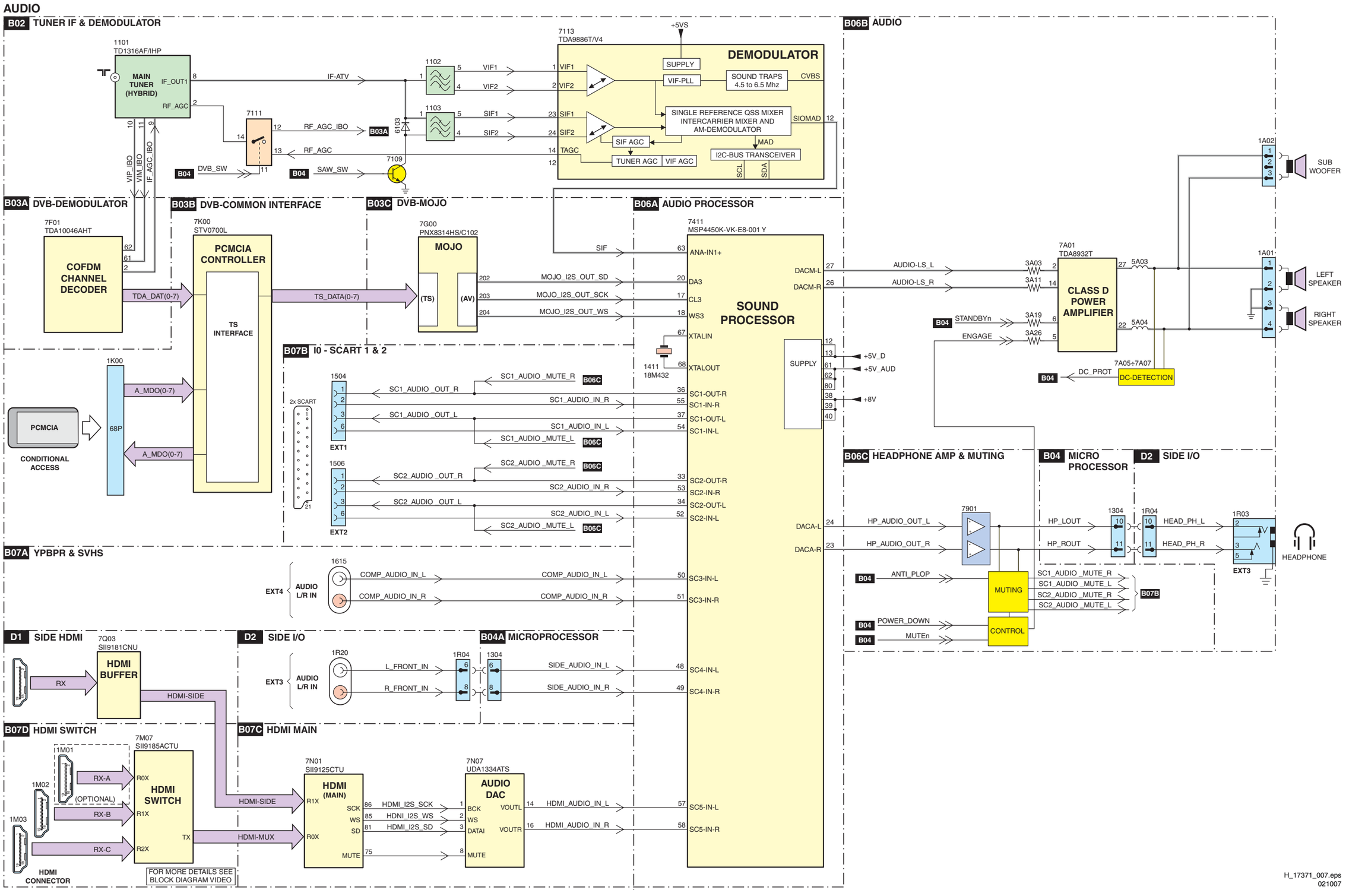
Block Diagram Audio



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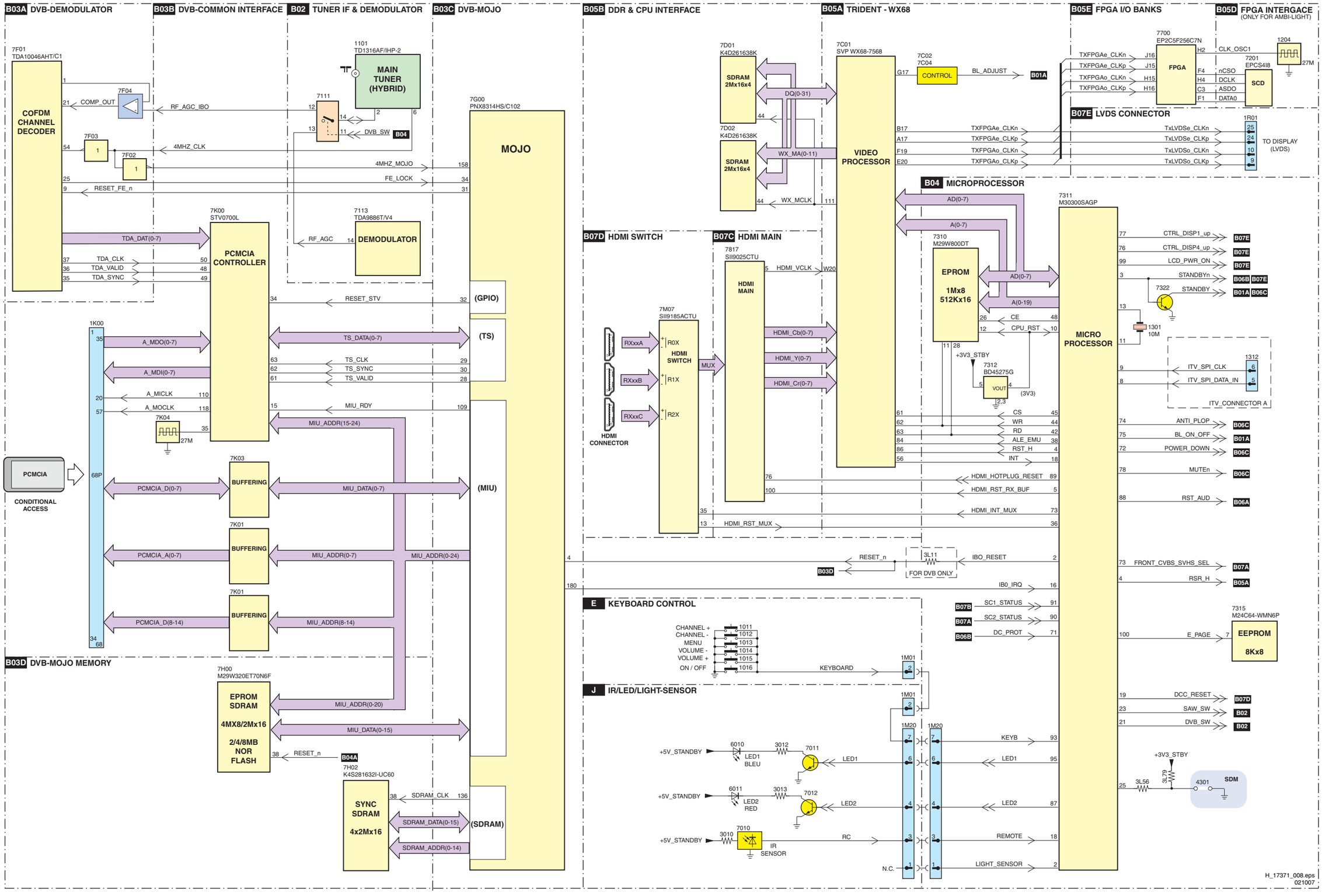
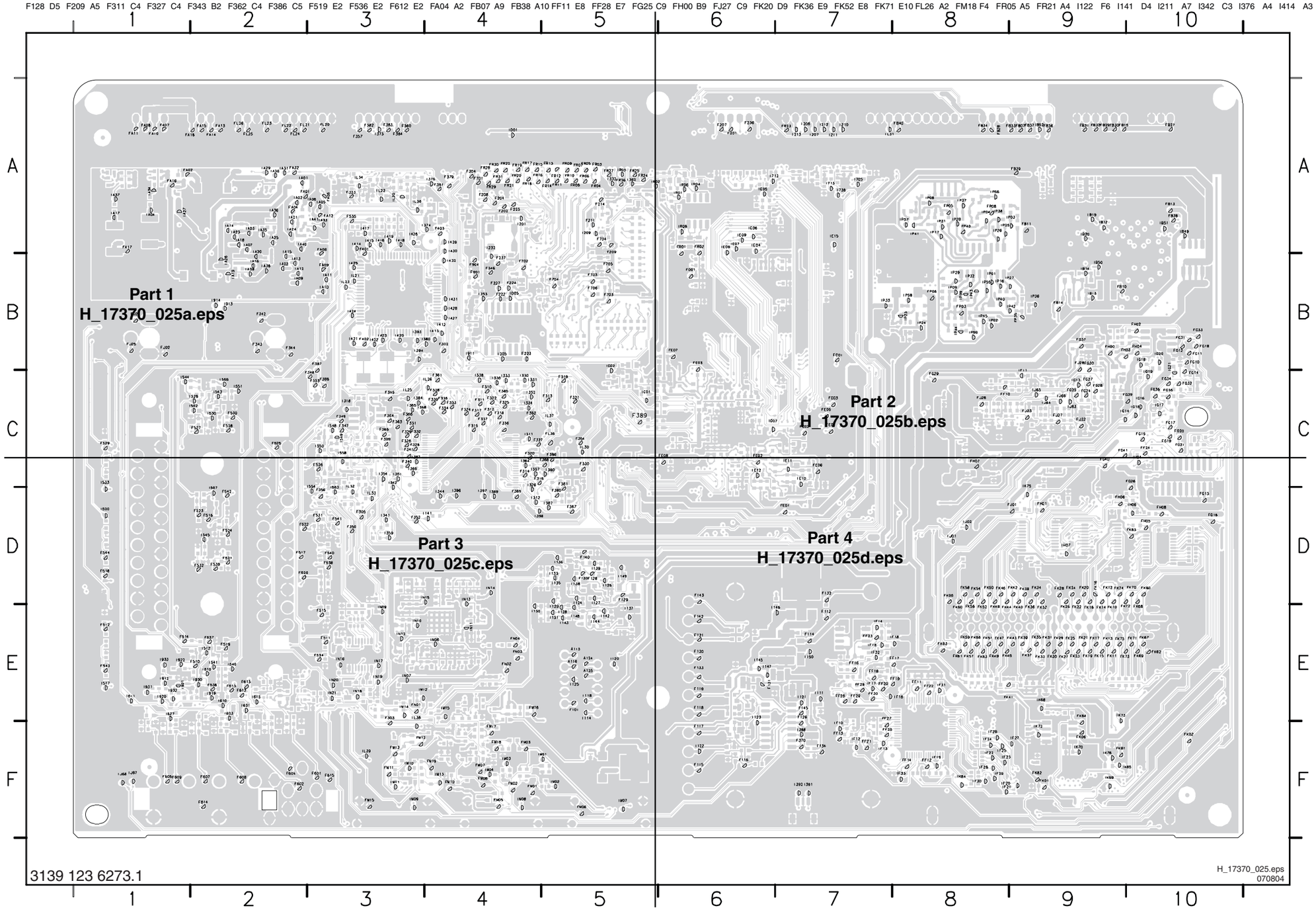
Block Diagram Control & Clock Signals

CONTROL & CLOCK SIGNALS



Test Point Overview SSB (Overview Bottom Side)

A115 E5 F129 D5 F211 A5 F312 C4 F328 C3 F344 B2 F363 C3 F387 B3 F520 D2 F537 E2 F613 E2 FA05 A3 FB10 B9 FB39 A9 FF12 F8 FF29 E7 FG26 C10 FH01 D9 FJ28 B9 FK21 E9 FK37 E9 FK53 E8 FK72 E9 FL36 C5 FM19 F4 FR06 A5 FR22 A4 I123 E6 I142 E5 I212 A7 I344 D4 I380 B4 I415 A3 IB20 A9 IN10 E3
A116 E5 F130 D5 F214 A5 F313 C5 F329 C3 F345 C3 F364 C3 F388 C3 F521 D2 F538 D3 F614 F2 FA06 A3 FB11 A9 FB40 A8 FF13 F7 FF30 E7 FG27 C9 FH02 B10 FK01 F9 FK22 E9 FK38 D9 FK54 D8 FK73 E9 FM01 F4 FN01 E3 FR07 A5 FR23 A7 I124 D5 I143 E5 I213 A7 I351 C3 I384 C3 I416 A3 IB49 A10 IN11 E4
A124 E5 F131 E6 F222 B4 F314 C4 F330 C5 F346 B4 F365 C3 F389 C5 F522 D2 F539 D2 F615 F3 FA07 A1 FB13 A10 FC01 B7 FF14 F8 FG10 B10 FG28 C9 FH03 B9 FK02 F10 FK23 E9 FK39 E9 FK55 E8 FK74 D9 FM02 F4 FN02 E4 FR08 A5 FR24 A5 I125 E5 I144 E5 I232 A4 I352 C4 I387 D5 I417 A3 IB50 B9 IN12 E3
A125 E5 F132 D7 F223 B4 F315 C4 F331 C3 F347 C3 F366 C3 F401 A3 F523 D2 F540 D3 F701 A4 FA08 A1 FB14 B9 FC02 C7 FF16 E7 FG11 B10 FG29 C8 FH04 B10 FK05 D8 FK24 D9 FK40 E9 FK56 E8 FK75 E9 FM03 F4 FN03 E4 FR09 A5 FR25 A5 I126 D5 I145 E6 I311 C4 I353 B4 I388 F7 I418 A3 IB51 A10 IN13 D4
F101 E5 F133 E6 F224 B4 F316 C4 F332 C3 F348 C3 F367 D5 F402 B3 F524 D2 F541 D3 F702 B4 FA09 B3 FB15 A9 FC03 C7 FF17 E8 FG12 B10 FG30 B9 FH05 D10 FK06 F9 FK25 E9 FK41 E8 FK57 E8 FK80 D10 FM05 F4 FN04 E4 FR10 A5 FR26 A5 I127 D5 I146 E7 I312 D4 I354 C3 I389 D4 I419 A3 IB52 A9 IN14 D4
F112 E7 F134 F7 F225 A4 F317 C4 F333 C4 F349 C3 F368 C5 F403 A4 F525 C2 F542 D2 F703 B5 FA10 A1 FB27 A10 FD01 B6 FF18 E7 FG13 D10 FG31 B10 FH06 D9 FK10 E9 FK26 E9 FK42 D9 FK58 D8 FK81 F9 FM06 F5 FP03 B8 FR11 A5 FR27 A5 I128 E5 I147 E6 I318 C3 I357 C4 I390 C5 I420 B3 IC01 C5 IN15 D4
F114 E7 F140 D5 F227 B4 F318 C4 F334 C4 F350 D3 F369 D4 F510 E2 F526 C3 F543 E1 F704 B5 FA11 A1 FB28 A8 FE01 D7 FF19 E8 FG14 C10 FG32 C10 FH07 C8 FK11 E9 FK27 E9 FK43 E9 FK59 E8 FK82 F9 FM07 F4 FP05 A8 FR12 A5 FR28 A4 I129 E5 I148 E5 I326 C4 I359 D3 I391 F7 I421 B3 IC02 B5 IN16 E3
F115 F6 F142 E6 F236 A6 F319 C5 F335 C4 F351 A4 F370 F7 F511 E3 F527 C2 F544 D1 F705 B5 FA12 A3 FB29 A9 FE02 C6 FF20 E7 FG15 C10 FG33 B10 FH08 D10 FK12 D9 FK28 D9 FK44 E8 FK60 E8 FK83 D10 FM08 F4 FP06 B8 FR13 A5 FR29 A4 I130 E4 I149 D5 I330 C4 I362 A5 I392 F7 I422 B3 IC07 C6 IN17 E3
F116 F6 F143 D6 F237 B4 F320 C4 F336 C4 F352 D3 F379 A4 F512 E1 F528 C2 F601 F3 F706 B5 FA13 A2 FB30 A9 FE03 B6 FF21 F7 FG16 D10 FG34 C10 FJ01 D9 FK13 E9 FK29 E9 FK45 E8 FK61 E8 FK84 E9 FM10 F4 FP08 A8 FR14 A5 FR30 A4 I131 E5 I150 E7 I331 C4 I364 C4 I393 B3 I423 B3 ID01 A4 IN18 E3
F117 F6 F145 E7 F302 B4 F321 C5 F337 C4 F353 C3 F380 D5 F513 E2 F529 C1 F602 F2 F733 B5 FA14 A2 FB31 A9 FE04 C7 FF22 E8 FG17 C10 FG35 C10 FJ02 B1 FK14 E9 FK30 E9 FK46 D8 FK62 E10 FL20 A3 FM11 F3 FP35 B9 FR15 A4 FR31 A4 I133 D5 I201 A4 I332 A5 I365 C3 I394 B3 I424 B3 ID05 B4 IN19 E3
F118 E6 F201 A6 F303 E3 F322 C4 F338 C4 F354 C5 F381 C5 F514 E1 F530 C2 F604 F2 F734 A5 FA15 A2 FB32 A9 FE05 C7 FF23 E7 FG18 B10 FG36 C10 FJ22 C9 FK15 E9 FK31 E9 FK47 E8 FK63 E8 FL21 A2 FM12 F3 FP40 A8 FR16 A4 I111 E7 I135 D5 I205 B4 I333 C4 I366 C3 I396 D4 I425 B3 IE04 A6 IN20 E3
F119 E6 F202 A4 F304 A4 F323 A3 F339 C4 F356 D3 F382 A3 F515 E3 F531 D3 F605 F1 F901 B4 FA16 A1 FB33 A9 FE06 C7 FF24 C10 FG19 C10 FG37 B9 FJ23 C9 FK16 D9 FK32 E9 FK48 E8 FK67 E10 FL22 A2 FM13 F3 FR01 A6 FR17 A4 I114 E5 I136 D5 I206 A7 I334 C4 I367 C3 I397 D4 I426 A3 IE05 A6 IN21 E3
F120 E6 F204 A4 F305 D3 F324 C4 F340 C3 F357 A3 F383 A3 F516 D2 F532 D2 F607 F2 F904 B4 FA17 A1 FB34 A8 FE07 B6 FF25 F7 FG20 C10 FG39 C10 FJ24 B1 FK17 E9 FK33 E9 FK49 E8 FK68 E10 FL23 A2 FM15 F3 FR02 A6 FR18 A4 I118 E5 I137 E5 I207 A7 I335 C4 I368 C3 I398 D4 I427 B4 IE06 A6 IP01 B8
F121 E6 F207 A6 F309 C3 F325 C4 F341 C3 F360 A3 F384 A3 F517 D2 F534 E3 F608 F2 FA01 A2 FA18 A1 FB36 A9 FE08 C6 FF26 E7 FG21 C10 FG40 C9 FJ25 B1 FK18 E9 FK34 D9 FK50 D8 FK69 E10 FL24 A2 FM16 E4 FR03 A5 FR19 A4 I120 E5 I138 D5 I209 A5 I338 C4 I373 A3 I412 B4 I428 B4 IE07 A6 IP02 B8
F126 E7 F208 A4 F310 C4 F326 C3 F342 B2 F361 C4 F385 C4 F518 D1 F535 A3 F609 F1 FA02 A1 FA32 A2 FB37 A9 FF10 C8 FF27 E7 FG24 C9 FG41 C9 FJ26 C8 FK19 E9 FK35 E9 FK51 E8 FK70 D10 FL25 A2 FM17 F4 FR04 A5 FR20 A4 I121 E7 I139 D5 I210 A7 I341 D3 I374 A4 I413 B4 I429 A4 IE08 A6 IP03 A9
F128 D5 F209 A5 F311 C4 F327 C4 F343 B2 F362 C4 F386 C5 F519 E2 F536 E2 F612 E2 FA04 A2 FB07 A9 FB38 A10 FF11 E8 FF28 E7 FG25 C9 FH00 B9 FJ27 C9 FK20 D9 FK36 E9 FK52 E8 FK71 E10 FL26 A2 FM18 F4 FR05 A5 FR21 A4 I122 F6 I141 D4 I211 A7 I342 C3 I376 A4 I414 A3 I430 A4 IE09 A6 IP04 A8
I431 B4 IE10 C7 IP08 A8
I432 B4 IE11 C7 IP09 B8
I510 E2 IE12 C6 IP16 B8
I512 E2 IE15 A7 IP17 A8
I517 E1 IF10 F7 IP23 B8
I520 D1 IF11 C9 IP24 B8
I528 C2 IF12 F7 IP25 A8
I530 C2 IF13 F7 IP26 A8
I533 C1 IF14 E7 IP27 B9
I540 E2 IF15 E7 IP28 A8
I541 E2 IF16 E8 IP29 B8
I543 C2 IF17 E7 IP31 A8
I544 C1 IF18 E8 IP32 B8
I545 D2 IF19 F8 IP33 B7
I548 C3 IF20 F8 IP36 B9
I549 C3 IF21 F8 IP37 A8
I550 C3 IF22 F8 IP38 A8
I551 C2 IF23 F8 IP39 B8
I552 C2 IF24 F8 IP40 B8
I553 D3 IF25 F8 IP41 A8
I554 C3 IF26 F8 IP42 B9
I556 C2 IF27 F9 IP43 B8
I557 D2 IF28 F8 IP44 B8
I558 C3 IF29 F8 IP45 B8
I610 E2 IF30 F8 IP55 B8
I611 E1 IF31 E8 IP56 A8
I615 E2 IF32 E7 IP57 A8
I623 E2 IF33 F8 IP58 B8
I627 E1 IG13 C9 IP59 B8
I631 E2 IG14 C9 IR01 A6
I705 A7 IG15 C10 IR02 A5
I712 A6 IG16 C10 IR04 A6
I713 A7 IG17 C10 IR05 A5
I728 A7 IG18 B10 IR06 A6
I911 B4 IG19 C10 IR08 A6
I912 E1 IG20 B10
I913 B2 IG21 B10
I914 B2 IH04 C10
I919 E2 IH06 D10
I920 E1 IH07 D9
I921 E1 IJ01 D8
I922 E1 IJ02 D8
I930 E2 IJ63 C9
I931 E1 IJ64 C9
I932 E1 IJ65 C9
I933 E1 IJ66 C9
IA01 A2 IJ67 F1
IA02 A2 IJ68 F1
IA03 A2 IK68 E9
IA04 A1 IK69 F9
IA05 A3 IK70 F9
IA06 A3 IK72 F9
IA07 A2 IK73 E9
IA09 B2 IK75 C9
IA10 B3 IK76 F9
IA11 B3 IK84 F8
IA12 B2 IK85 F10
IA13 B2 IL20 A3
IA14 A2 IL21 B3
IA15 A2 IL22 A3
IA16 B2 IL23 B3
IA17 A1 IL25 C3
IA18 A2 IL26 C4
IA19 B2 IL30 C5
IA20 A2 IL31 A7
IA21 A2 IL32 C3
IA22 B2 IL33 D3
IA23 A2 IL34 A3
IA24 A2 IL35 A3
IA25 A2 IL37 C5
IA26 B2 IL38 E3
IA27 A1 IL39 F3
IA29 A2 IM01 F5
IA30 A2 IM02 F5
IA31 A2 IM03 F4
IA33 A3 IM04 F4
IA34 A1 IM07 F5
IA35 A2 IM08 F4
IA36 A2 IM09 F3
IA37 A1 IM10 F3
IA38 B2 IM11 F3
IA39 B2 IM12 E3
IA40 A2 IM13 F4
IA41 A3 IM14 E3
IB12 A9 IM15 E4
IB14 B9 IN06 E4
IB15 B9 IN07 E3
IB19 A9 IN09 E3



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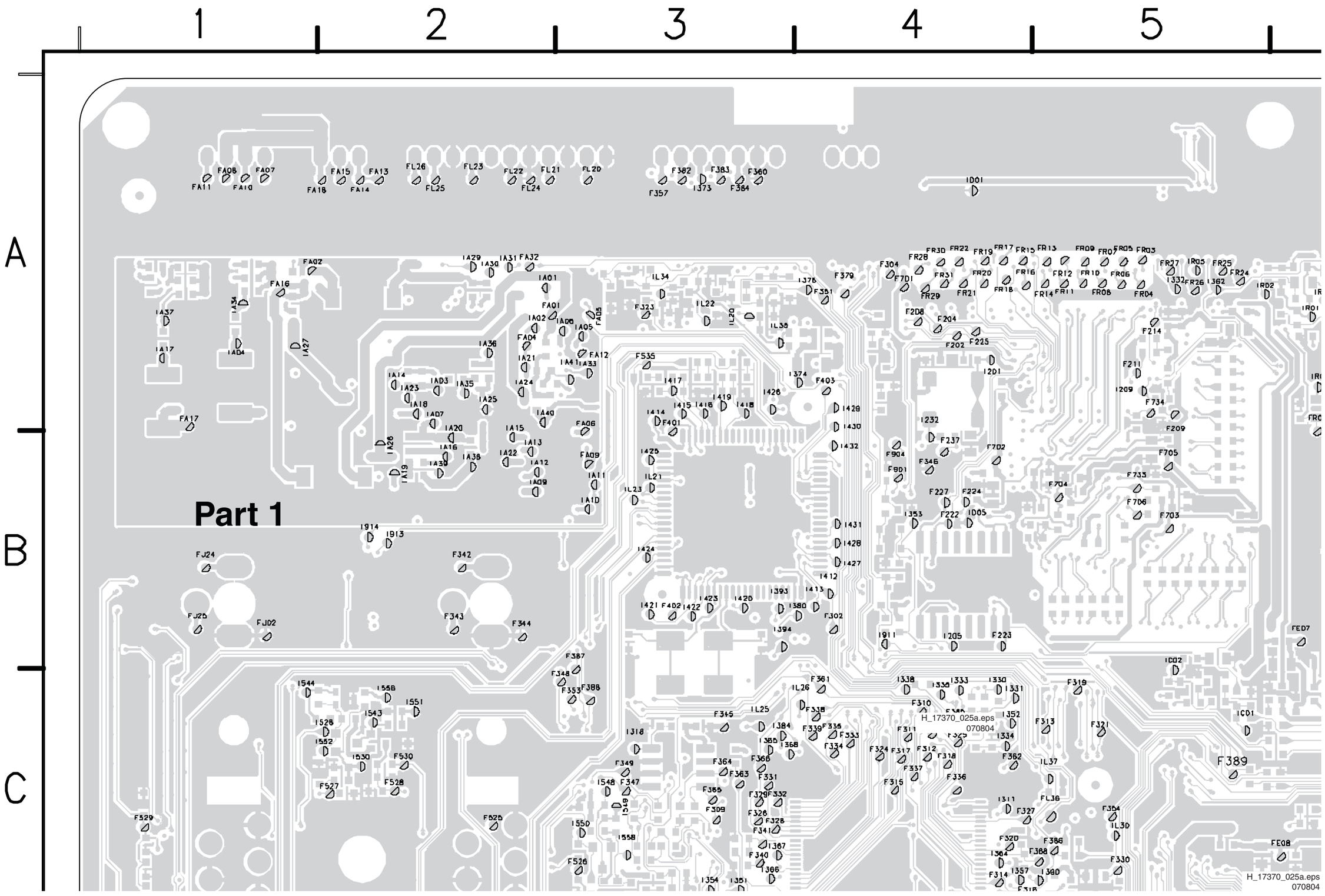
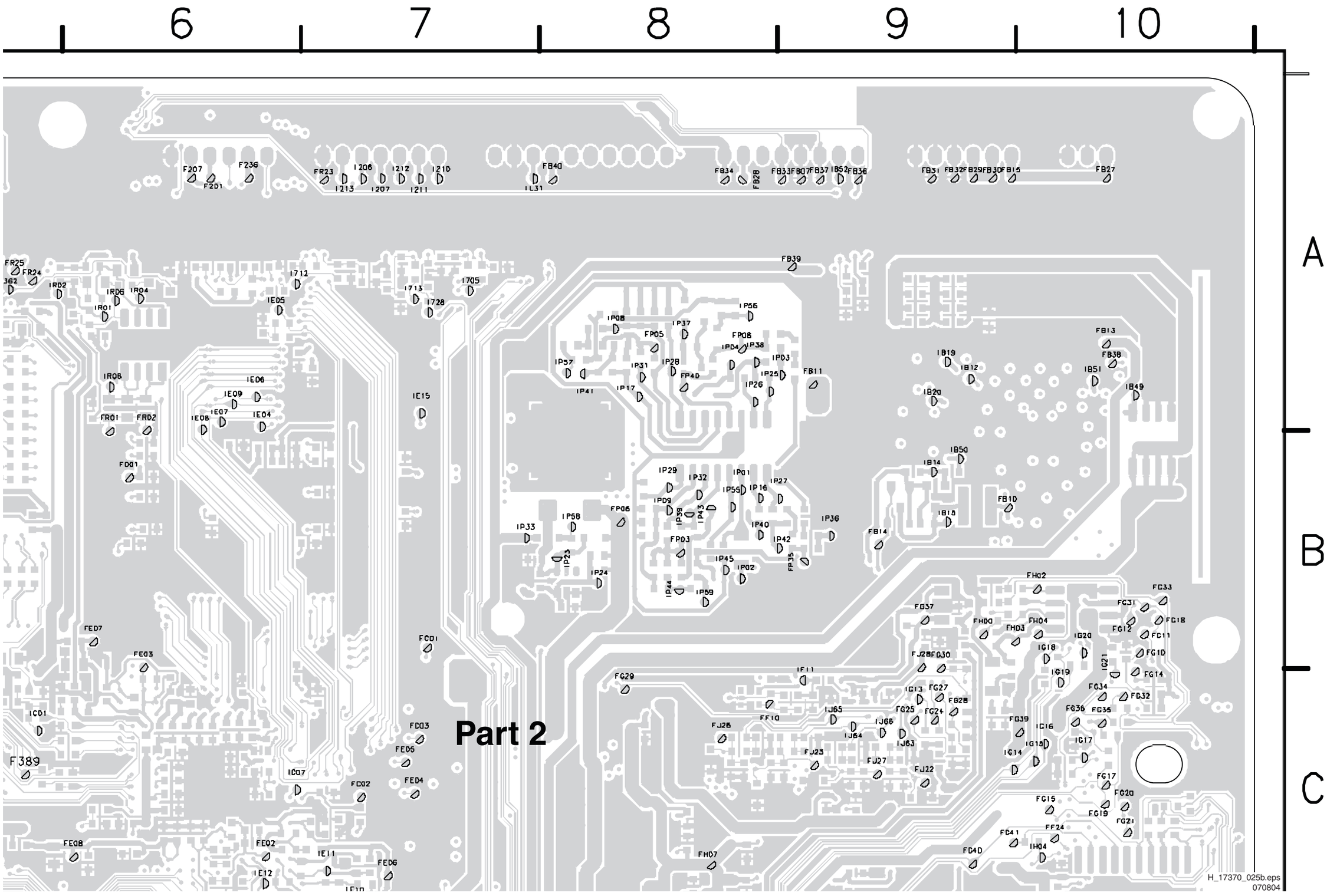
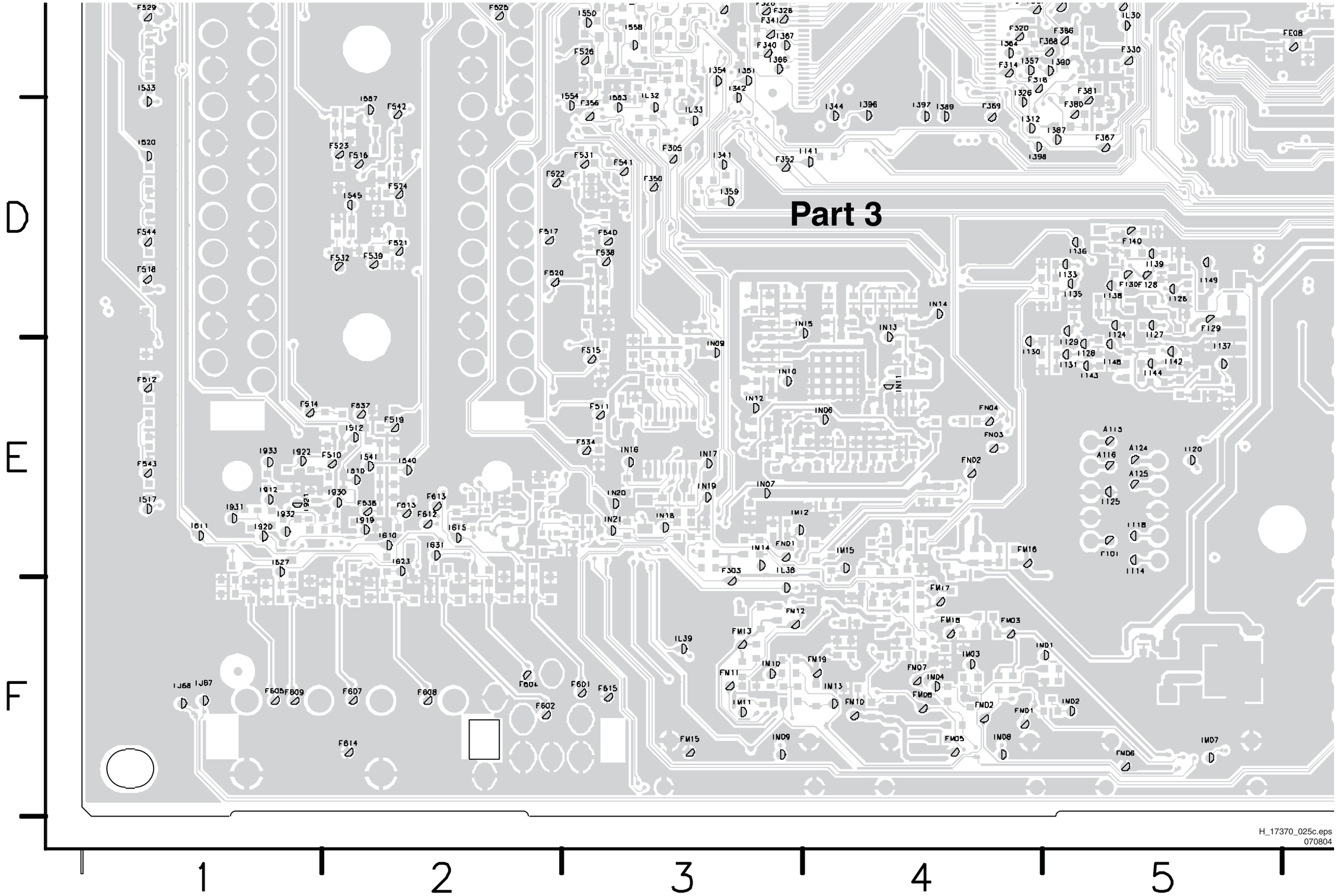
Test Point Overview SSB (Part 1 Bottom Side)



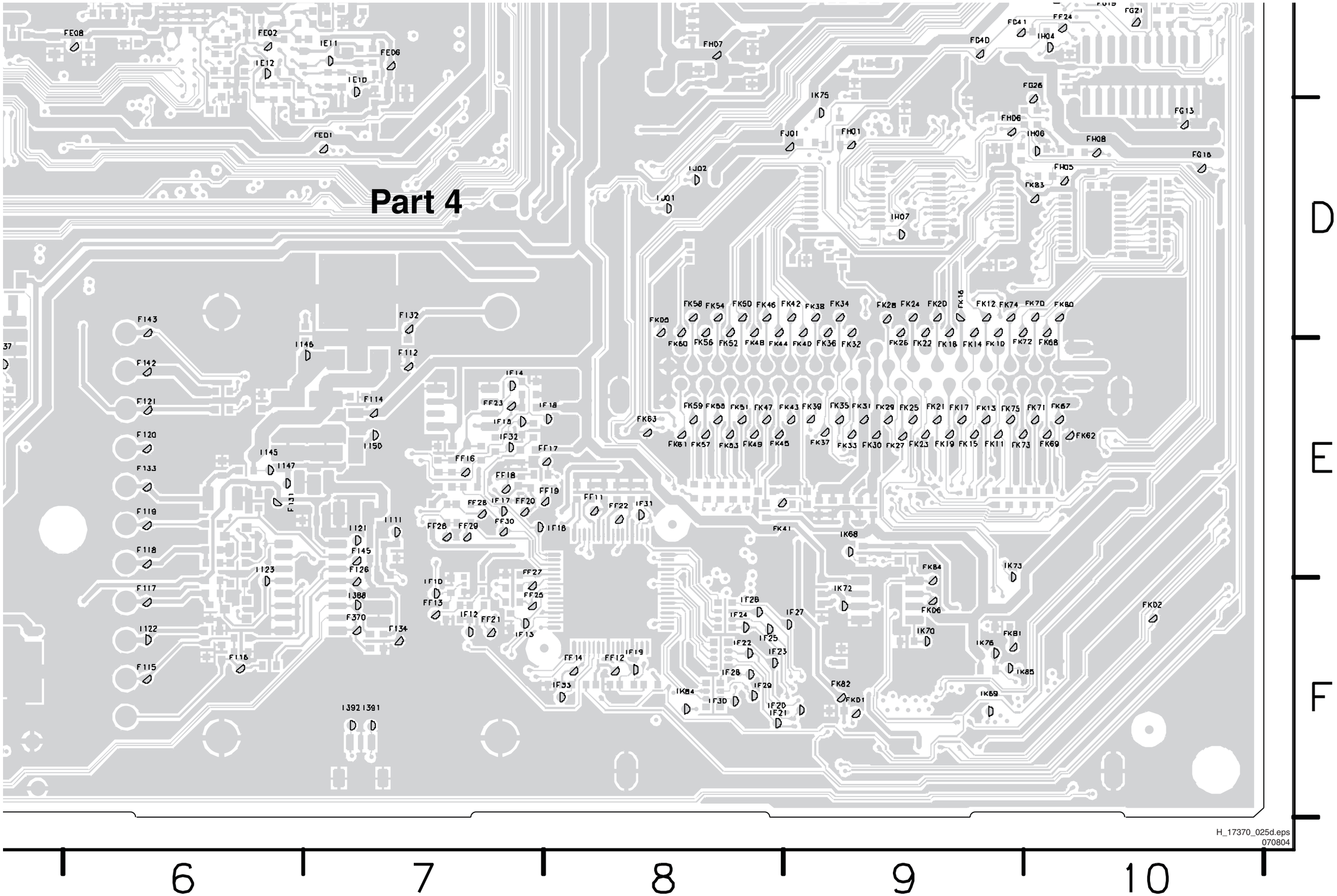
Test Point Overview SSB (Part 2 Bottom Side)



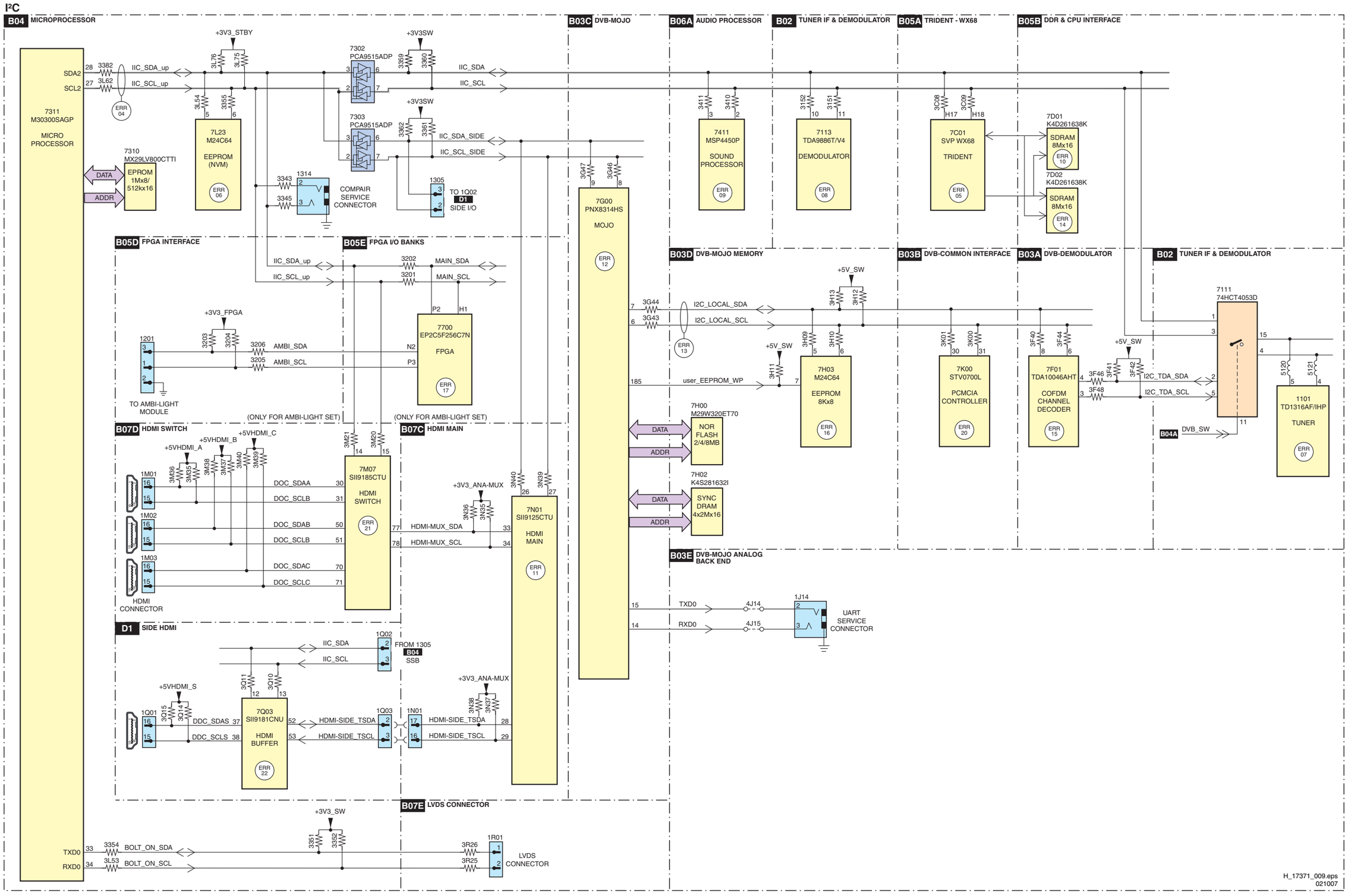
Test Point Overview SSB (Part 3 Bottom Side)



Test Point Overview SSB (Part 4 Bottom Side)

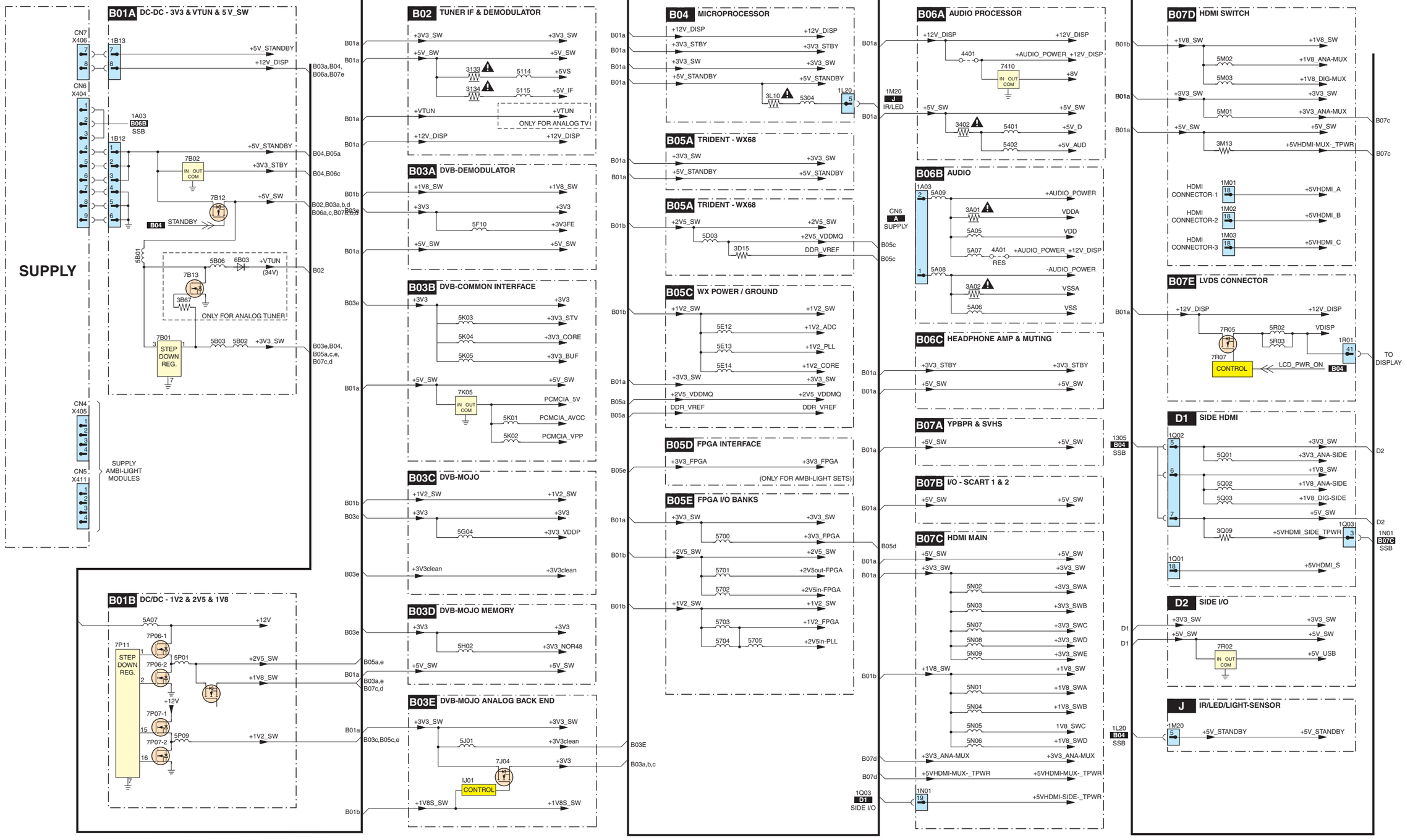


I2C Overview



Supply Lines Overview

SUPPLY LINES OVERVIEW



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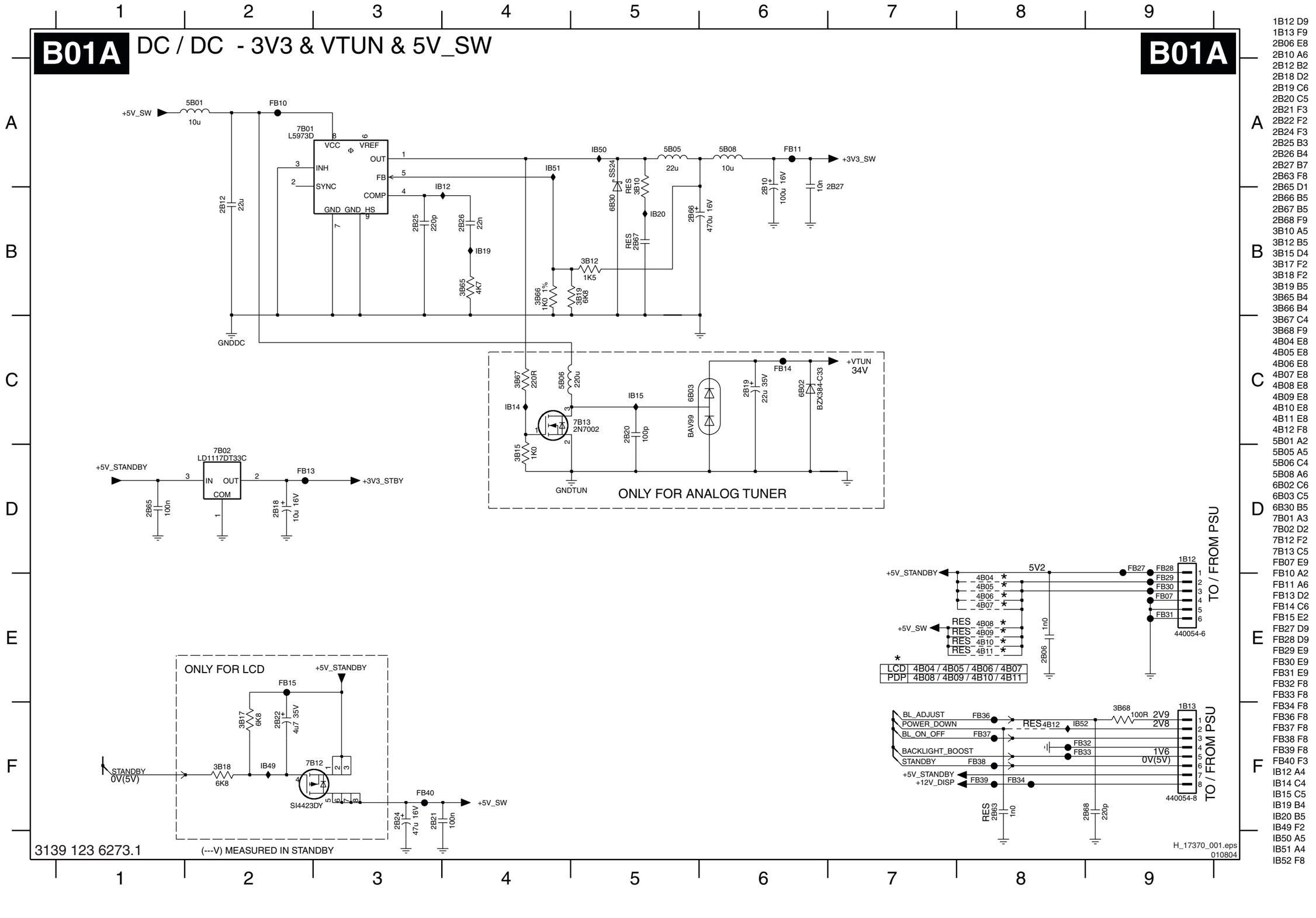
7. Circuit Diagrams and PWB Layouts

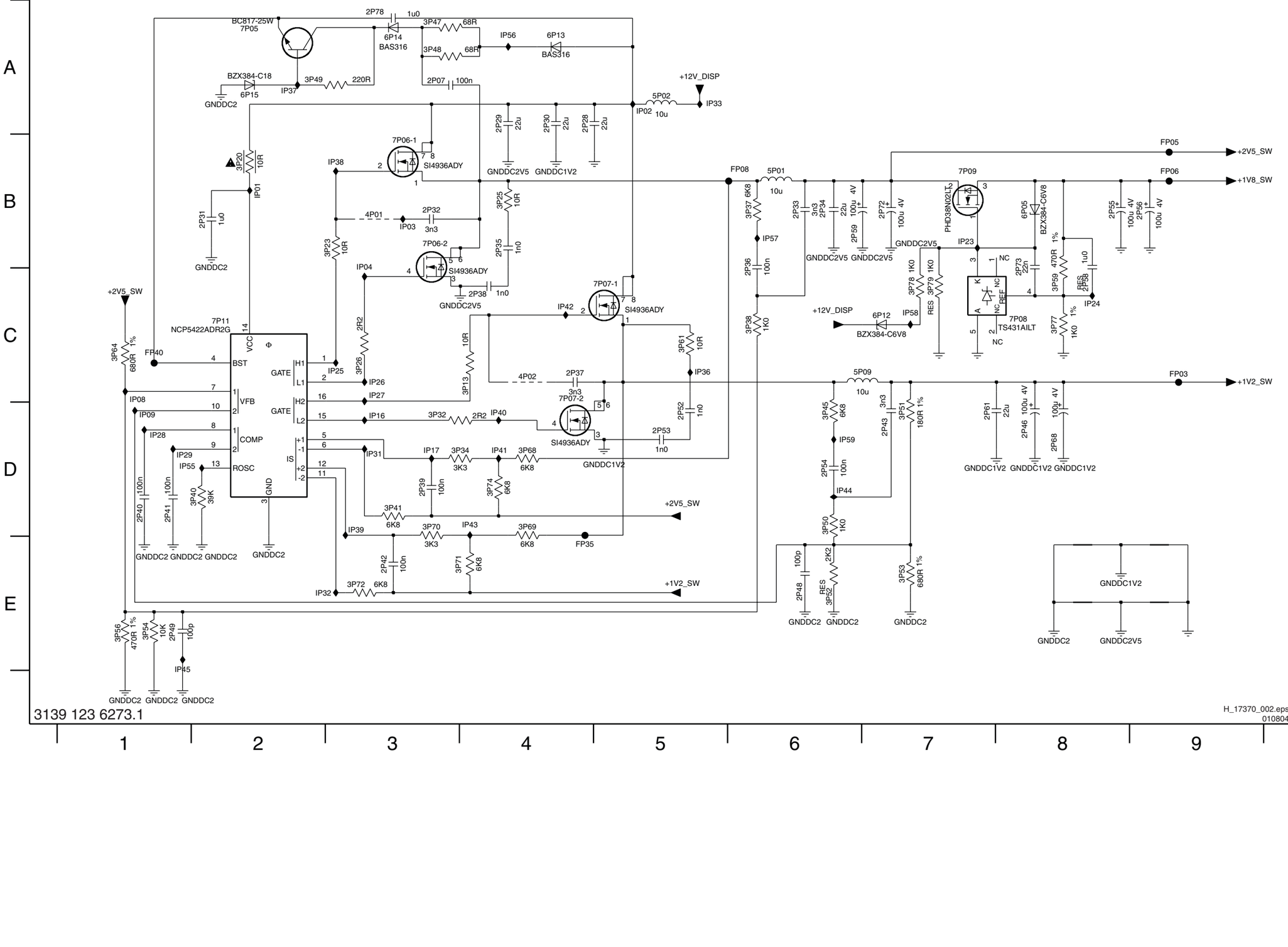
SSB: DC / DC 3V3, VTUN, & 5V_SW



1B12 D9
1B13 F9
2B06 E8
2B10 A6
2B12 B2
2B18 D2
2B19 C6
2B20 C5
2B21 F3
2B22 F2
2B24 F3
2B25 B3
2B26 B4
2B27 B7
2B63 F8
2B65 D1
2B66 B5
2B67 B5
2B68 F9
3B10 A5
3B12 B5
3B15 D4
3B17 F2
3B18 F2
3B19 B5
3B65 B4
3B66 B4
3B67 C4
3B68 F9
4B04 E8
4B05 E8
4B06 E8
4B07 E8
4B08 E8
4B09 E8
4B10 E8
4B11 E8
4B12 F8
5B01 A2
5B05 A5
5B06 C4
5B08 A6
6B02 C6
6B03 C5
6B30 B5
7B01 A3
7B02 D2
7B12 F2
7B13 C5
FB07 E9
FB10 A2
FB11 A6
FB13 D2
FB14 C6
FB15 E2
FB27 D9
FB28 D9
FB29 E9
FB30 E9
FB31 E9
FB32 F8
FB33 F8
FB34 F8
FB36 F8
FB37 F8
FB38 F8
FB39 F8
FB40 F3
IB12 A4
IB14 C4
IB15 C5
IB19 B4
IB20 B5
IB49 F2
IB50 A5
IB51 A4
IB52 F8

SSB: DC / DC 1V2, 2V5, & 1V8

B01B DC/DC - 1V2 & 2V5 & 1V8



2P07 A3	6P05 B8
2P28 A4	6P12 C7
2P29 A4	6P13 A4
2P30 A4	6P14 A3
2P31 B2	6P15 A2
2P32 B3	7P05 A2
2P33 B6	7P06-1 B3
2P34 B6	7P06-2 B3
2P35 B4	7P07-1 C4
2P36 B6	7P07-2 C4
2P37 C4	7P08 C8
2P38 C4	7P09 B7
2P39 D3	7P11 C2
2P40 D1	FP03 C9
2P41 D1	FP05 B9
2P42 E3	FP06 B9
2P43 D7	FP08 B6
2P46 D8	FP35 E4
2P48 E6	FP40 C1
2P49 E1	IP01 B2
2P52 D5	IP02 A5
2P53 D5	IP03 B3
2P54 D6	IP04 B3
2P55 B8	IP08 C1
2P56 B9	IP09 D1
2P58 C8	IP16 D3
2P59 B6	IP17 D3
2P61 D7	IP23 B7
2P68 D8	IP24 C8
2P72 B7	IP25 C3
2P73 B8	IP26 C3
2P78 A3	IP27 C3
3P13 C4	IP28 D1
3P20 B2	IP29 D1
3P23 B3	IP31 D3
3P25 B4	IP32 E2
3P26 C3	IP33 A5
3P32 D3	IP36 C5
3P34 D4	IP37 A2
3P37 B6	IP38 B3
3P38 C6	IP39 D3
3P40 D2	IP40 D4
3P41 D3	IP41 D4
3P45 D6	IP42 C4
3P47 A3	IP43 D4
3P48 A3	IP44 D6
3P49 A2	IP45 E1
3P50 D6	IP55 D1
3P51 D7	IP56 A4
3P52 E6	IP57 B6
3P53 E7	IP58 C7
3P54 E1	IP59 D6
3P56 E1	
3P59 C8	
3P61 C5	
3P64 C1	
3P68 D4	
3P69 D4	
3P70 D3	
3P71 E3	
3P72 E3	
3P74 D4	
3P77 C8	
3P78 C7	
3P79 C7	
4P01 B3	
4P02 C4	
5P01 B6	
5P02 A5	
5P09 C7	

SSB: Tuner IF & Demodulator

B02 TUNER IF & DEMODULATOR

SAW FILTERS

IF_ATV F101 5111 390n
1102 OFWK3953M 38M9 (IGND, GND) A115 A116 5117 RES VIF1 VIF2
+5V_IF 3113 6K8 2117 10n I114
3117 2K2 6103 1SS356
1103 OFWK9656M 38M9 (ISWI, GND) I118 A124 A125 SIF2 SIF1
+5V_IF 3118 2K2
SAW_SW I141 3119 22K I120 7109 BC847B 3188 18K

TUNER

+12V_DISP 5118 33R I146 3136 47R I147 3137 47R
7133 L78M05CDT (IN, OUT, COM) I145 4V9
1101 TUNER TD1316AF/HP-2 F112 4112 F132 F134
2147 330n 2148 100n
DC_PWR, RF_AGC, CS, SCL, SDA, SAL_OUT, AS, IF_OUT1, IF_AGC, IF_OUT2, IF_OUT3, CMT
2146 1u0 RES 2115 1u0 RES 2116 1u0
F116 F115 F117 F118 F119 F120 F121 F122 F123
RES ONLY FOR ANALOG TV
+VTUN 3192 1K0 I137 2119 100n 2142 10u 50V
5112 33R F133 2120 22u 2118 10n
4V3
F126 F145 4114 4115 4116 4117 4118 4119

DVB ONLY

+5V_IF 2113 10n
7111 74HCT4053D (VDD, MDX, VSS_VEE)
3111 5K6 RF_AGC
+5V_IF 3110 8K2 I111 3115 39K
6110 BAS316 2112 22u 2149 2u2
RF_AGC_IBO WAGC_SW DVB_SW IIC_SDA I2C_TDA_SDA IIC_SCL I2C_TDA_SCL
VIP_IBO IF_AGC_IBO VIM_IBO IF_ATV 4MHZ_CLK
4125 4120 4121 4122

1V3 I122 I121 I123
5120 120R RES 3120 10R 2122 15p
5121 120R RES 3146 10R 2121 15p
+5V_IF RES 3190 4K7 RES 7131 BSH111 +3V3_SW
+5V_IF RES 3191 4K7 RES 7132 BSH111 +3V3_SW

DEMODULATOR

RF_AGC 3124 100R RES 2124 22n F128
I124 3123 330R 2123 I125 1104 4M0 2125 470n 2126 220n 2127 22p 2143 1n0 I142
7113 TDA9886T/V4 (TOP, TAGC, VAGC, VPLL, REF, AFC)
TUNER AGC | VIF AGC | RC VCO | DIGITAL VCO CONTROL | AFC DETECTOR
VIF2 2V 2 VIF2
VIF1 2V 1 VIF1
SIF2 2V 24 SIF2
SIF1 2V 23 SIF1
VIF-PLL
SINGLE REFERENCE QSS MIXER INTERCARRIER MIXER AND AM-DEMODULATOR
SOUND TRAPS 4.5 to 6.5 Mhz CVBS 17 F130
AUDIO PROCESSING AND SWITCHES AUD 8 DEEM 5 I128 2133 10n
MAD
SUPPLY SIF AGC OUTPUT PORTS I²C-BUS TRANSCEIVER NARROW-BAND FM-PLL DEMODULATOR AFD 6 I129 2136 470n
20 Vp 18 AGND 13 NC 3 OP1 22 OP2 11 SCL 10 SDA 7 DGND 12 SIOMAD 4 FMPLL
+5VS 2138 10n I143 1n0 I144 10n 2145 RES 2144
IIC_SCL_up I133 3151 100R RES 2140
IIC_SDA_up I135 3152 100R 2141 RES
SIF I136
2V1 2V3 I131 2137 10n I130 3127 5K6 2139 390p
+5VS 22K 3193 4126 3194 22K 3195 18K 7134 BC847B
I148 3140 150R 3187 4K7 +5VS
+5VS 3135 15R 2128 10n
2V1 7114 BC847B 1V5 I138
4124 3125 150R I139 5116 5u6 F140 CVBS_RF 3126 150R 2134 15p 2135 15p RES

*	ANALOG	DIGITAL
4110	Y	Y
4111	Y	Y
4112	Y	Y
4113	Y	–
4114	Y	–
4115	–	Y
4116	–	Y
4117	–	Y
4118	–	Y
4119	–	Y
4120	Y	–
4121	Y	–
4122	Y	–
4123	Y	–
4124	Y	–

+5V_SW F114 3133 1R0 I149 5114 10u F129 +5VS 2129 22u 2130 10n
+5V_SW 3134 1R0 I150 5115 10u F131 +5V_IF 2131 22u 2132 22u

3139 123 6273.1
H_17370_003.eps 010804

1101 A6	A125 C5
1102 B4	F101 B1
1103 C4	F112 A6
1104 E4	F114 H10
2112 B11	F115 B7
2113 B10	F116 B7
2115 B6	F117 B7
2116 B6	F118 B7
2117 C3	F119 B7
2118 C10	F120 B7
2119 C8	F121 B7
2120 C9	F126 C7
2121 E7	F128 F2
2122 D7	F129 H11
2123 F3	F130 G6
2124 F2	F131 H11
2125 F2	F132 A6
2126 F3	F133 B9
2127 F4	F134 A8
2128 F7	F140 G8
2129 H11	F142 B7
2130 H11	F143 B7
2131 I11	F145 C7
2132 I11	I111 A12
2133 G6	I114 C4
2134 H7	I118 C4
2135 H8	I120 C2
2136 G6	I121 D10
2137 H5	I122 D7
2138 H2	I123 E10
2139 H5	I124 E3
2140 I3	I125 F4
2141 I3	I126 F3
2142 C8	I127 F3
2143 F5	I128 G6
2144 I3	I129 G6
2145 I3	I130 H6
2146 B6	I131 H5
2147 A8	I133 I4
2148 A9	I135 I4
2149 B11	I136 I4
3110 A12	I137 B8
3111 A11	I138 G7
3113 B3	I139 G7
3115 B12	I141 C1
3117 C3	I142 F5
3118 C2	I143 H3
3119 C1	I144 H3
3120 D8	I145 A9
3123 E3	I146 A8
3124 E2	I147 A8
3125 G7	I148 I7
3126 H7	I149 H11
3127 H6	I150 H11
3133 H10	
3134 H10	
3135 F7	
3136 A8	
3137 A9	
3140 I8	
3146 E8	
3151 I3	
3152 I3	
3187 I8	
3188 D2	
3190 D10	
3191 E10	
3192 B8	
3193 I5	
3194 I5	
3195 I5	
4112 B6	
4113 B8	
4114 C7	
4115 C7	
4116 C7	
4117 C7	
4118 C7	
4119 C7	
4120 D8	
4121 D10	
4122 E10	
4123 D7	
4124 G7	
4125 B11	
4126 I5	
5111 B1	
5112 B9	
5114 H11	
5115 H11	
5116 G7	
5117 B5	
5118 A8	
5120 D7	
5121 E7	
6103 C3	
6110 A11	
7109 C2	
7111 B10	
7113 F2	
7114 G7	
7131 D11	
7132 E11	
7133 A8	
7134 I6	
A115 B5	
A116 B5	
A124 C5	

SSB: DVB-Demodulator

B03A DVB - DEMODULATOR

B03A

COFDM CHANNEL DECODER

7F01 TDA10046AHT/C1

7F02 74AHC1GU04GW

7F03 74AHC1GU04GW

7F04-1 LM393D

7F04-2 LM393D

3139 123 6273.1

H_17370_004.eps 010804

2F10 B
2F11 B
2F12 B
2F13 B
2F14 B
2F15 B
2F16 B
2F17 B
2F18 B
2F19 B
2F20 B
2F21 B
2F22 C
2F23 C
2F24 C
2F25 C
2F26 C
2F27 D
2F28 D
2F29 D
2F30 D
2F31 D
2F32 D
2F33 E
3F10 B
3F11 B
3F12 B
3F13 B
3F14 C
3F15 C
3F16 C
3F17 C
3F18 D
3F19 D
3F20 D
3F21 D
3F22 D
3F23 D
3F24 D
3F25 D
3F26 D
3F27 D
3F28 E
3F29 E
3F30 E
3F31-1
3F31-2
3F31-3
3F31-4
3F32-1
3F32-2
3F32-3
3F32-4
3F33 E
3F34-1
3F34-2
3F34-3
3F40 F
3F41 F
3F42 F
3F44 F
3F46 F
3F48 F
4F11 D
4F12 D
5F10 B
5F11 B
7F01 C
7F02 B
7F03 C
7F04-1
7F04-2
FF10 B
FF11 B
FF12 B
FF13 C
FF14 C
FF16 D
FF17 D
FF18 D
FF19 D
FF20 D
FF21 E
FF22 E
FF23 E

SSB: DVB-T: DVB Common Interface

B03B DVB-COMMON INTERFACE

B03B

PCMCIA CONTROLLER

I²C INTERFACE

TS INTERFACE

INTERRUPTS MANAGEMENT

UCSG

CURRENT SWITCH

LATCH

BUS TRANSCEIVER

68p PCMCIA CONNECTOR

3139 123 6273.1

H_17370_005.eps 010804

1K00-A H7 FK46 J7
1K00-B H8 FK47 J9
2K00 H4 FK48 J7
2K01 I4 FK49 J9
2K02 H15 FK50 J7
2K03 H15 FK51 J9
2K04 J3 FK52 J7
2K05 H15 FK53 J9
2K06 H15 FK54 J7
2K07 F14 FK55 J9
2K08 H15 FK56 J7
2K09 H15 FK57 J9
2K10 H15 FK58 J7
2K11 I15 FK59 J9
2K12 I15 FK60 J7
2K13 I15 FK61 J9
2K14 F9 FK62 J8
2K15 K4 FK63 J7
2K16 F8 FK67 H9
2K17 G8 FK68 H7
3K00 F2 FK69 H9
3K01 F2 FK70 H7
3K02-1 F4 FK71 H9
3K02-2 F4 FK72 H7
3K02-3 F4 FK73 H9
3K03-1 F5 FK74 H7
3K03-2 F5 FK75 H9
3K03-3 F5 FK80 H7
3K03-4 F5 FK81 H16
3K04 H9 FK82 I16
3K05-1 F5 FK83 I16
3K05-2 F5 FK84 F15
3K05-3 F6 IK68 C10
3K05-4 F6 IK69 C10
3K06 K9 IK70 F15
3K07 K9 IK72 F16
3K08 K6 IK73 C10
3K09 F9 IK75 F11
3K10 E14 IK76 C11
3K11 F16 IK84 G8
3K12 F10 IK85 C4
3K13 F15
3K15 B9
3K16 B9
3K17 B9
3K18 B9
3K19 B9
3K20 B9
3K21 B9
3K22 C9
3K23-1 K4
3K23-2 K4
3K23-3 K4
3K23-4 K4
3K24-1 K4
3K24-2 K4
3K24-3 K4
3K24-4 K4
3K25 K4
3K26 K4
3K27 C2
3K28 C3
3K29 C3
3K30 C3
3K31 C3
3K32 C3
3K33 C3
3K34-1 C4
3K34-2 C4
3K34-3 C4
3K34-4 C4
3K38 C4
3K39 C4
3K40 C4
3K41 C5
3K42 C5
3K43 C5
3K44 C5
3K45 C5
3K46 C5
3K47 C6
3K48 C6
3K49 H2
3K50 H2
3K51 K6
3K52 C4
5K01 G15
5K02 H15
5K03 H15
5K04 I15
5K05 I15
7K00 E1
7K01 H3
7K02 I3
7K03 K3
7K04 F8
7K05 E16
FK01 E9
FK02 F10
FK05 G9
FK06 F15
FK10 H7
FK11 H9
FK12 H7
FK13 H9
FK14 I7
FK15 I9
FK16 I7
FK17 I9
FK18 I7
FK19 I9
FK20 I7
FK21 I9
FK22 I7
FK23 I9
FK24 I7
FK25 I9
FK26 I7
FK27 I9
FK28 I7
FK29 I9
FK30 I7
FK31 I7
FK32 I7
FK33 I9
FK34 I7
FK35 I9
FK36 I7
FK37 I9
FK38 I7
FK39 I9
FK40 J7
FK41 J9
FK42 J7
FK43 J9
FK44 J7
FK45 J9

SSB: DVB MOJO

B03C DVB-MOJO

B03C

FOR DEV. ONLY

4G05 FOR DEVELOPMENT ONLY
4G01, 4G02, 4G03,4G04 FOR PRODUCTION

(JTAG-ETAG-SYS)

(TS)

(AV)

(I2C-USB-SCO)

(PWR)

(SDRAM)

(GPIO)

(MIU)

1G01-1 A8 IG15 G1
1G01-2 A9 IG16 G1
2G02 G5 IG17 F11
2G03 G6 IG18 F2
2G04 G6 IG19 G2
2G05 G6 IG20 G2
2G06 H6 IG21 E6
2G07 H6
2G08 H6
2G09 H6
2G10 H6
2G11 H6
2G12 F6
2G13 G6
2G14 G6
2G15 G6
2G16 G6
2G17 G6
2G18 G6
2G19 H9
2G20 I9
2G21 I9
2G22 H6
2G23 I6
2G24 I6
2G31 B3
2G32 C5
2G33 C5
3G11 E6
3G12 E9
3G15 A4
3G16 A4
3G17 A4
3G18 A4
3G19 A4
3G20 A4
3G28 E14
3G29 F14
3G30 E14
3G31 E14
3G33 G2
3G34 G2
3G35 F2
3G36 F14
3G37 F14
3G38 A4
3G40 I8
3G41 E14
3G43 H2
3G44 H2
3G46 H2
3G47 I2
3G48 C6
3G51 G13
3G54 G13
3G55 G13
3G56-1 H10
3G56-2 H10
3G56-3 H10
3G56-4 H10
3G57-1 G10
3G57-2 H10
3G57-3 G10
3G57-4 H10
3G58-1 G10
3G58-2 H10
3G58-3 G10
3G58-4 H10
3G59-1 H10
3G59-2 H10
3G59-3 H10
3G59-4 H10
3G60 I11
3G61 I11
3G62 I11
3G63 F10
4G01 B9
4G02 B9
4G03 B9
4G04 C8
4G05 C8
4G09 A2
4G10 A2
4G31 C3
5G01 G5
5G02 G5
5G03 C5
5G04 I6
5G05 C4
5G06 F5
5G07 F5
7G00-1 F7
7G00-2 E3
7G00-3 F3
7G00-4 A12
7G00-5 G12
7G00-6 H4
7G00-7 D12
7G00-8 D7
FG10 A7
FG11 A7
FG12 A7
FG13 A9
FG14 A7
FG15 A7
FG16 A7
FG17 H2
FG18 C6
FG19 H2
FG20 E13
FG21 E13
FG22 E13
FG23 E13
FG24 E14
FG25 E14
FG26 E9
FG27 F14
FG28 I13
FG29 F13
FG30 F13
FG31 H2
FG32 H3
FG33 H2
FG34 H3
FG35 H3
FG36 I3
FG37 C5
FG39 F6
FG40 A7
FG41 A7
IG13 I8
IG14 F1

3139 123 6273.1

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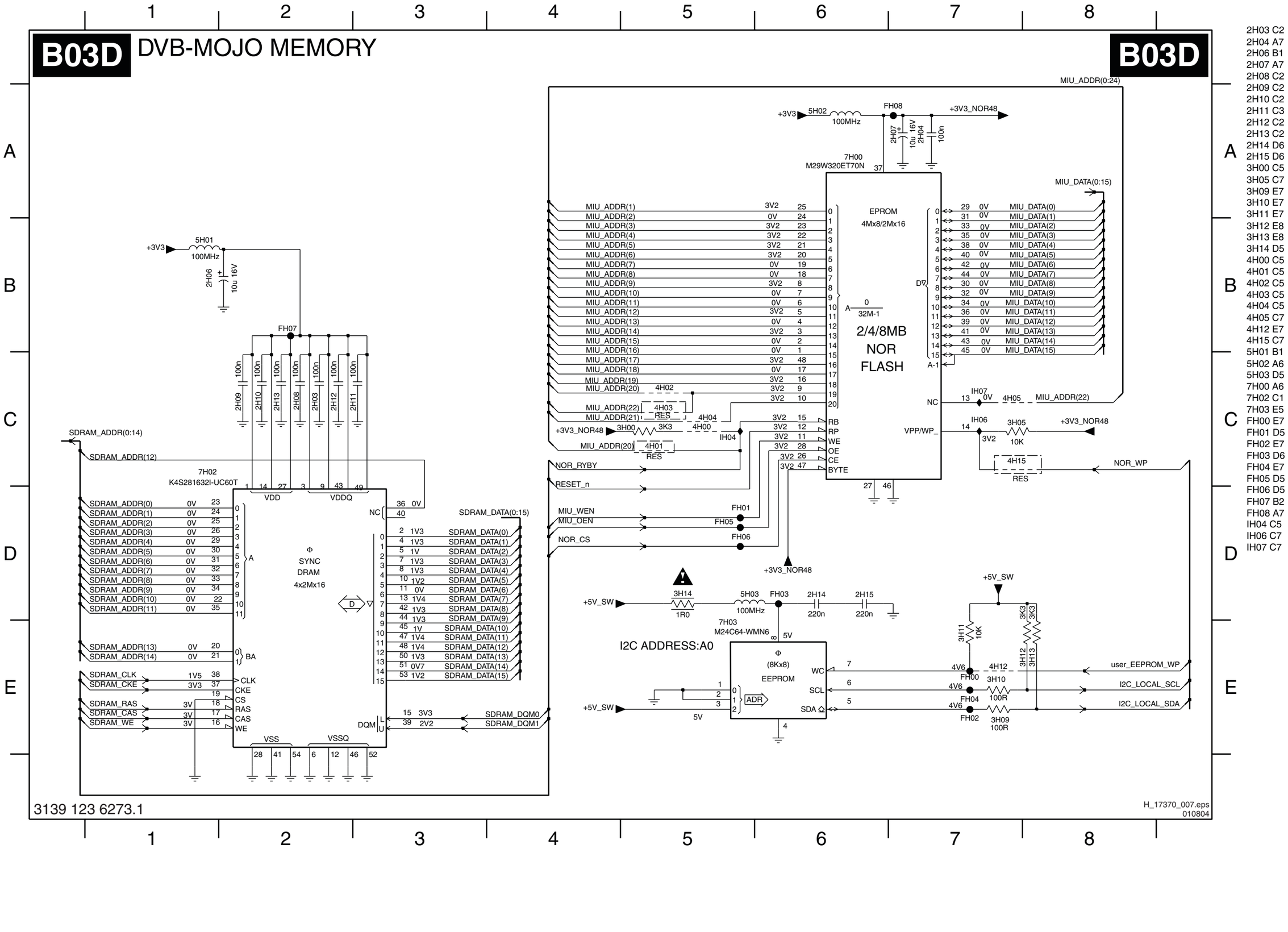
SSB: DVB MOJO Memory

B03D DVB-MOJO MEMORY

B03D



2H03 C2
2H04 A7
2H06 B1
2H07 A7
2H08 C2
2H09 C2
2H10 C2
2H11 C3
2H12 C2
2H13 C2
2H14 D6
2H15 D6
3H00 C5
3H05 C7
3H09 E7
3H10 E7
3H11 E7
3H12 E8
3H13 E8
3H14 D5
4H00 C5
4H01 C5
4H02 C5
4H03 C5
4H04 C5
4H05 C7
4H12 E7
4H15 C7
5H01 B1
5H02 A6
5H03 D5
7H00 A6
7H02 C1
7H03 E5
FH00 E7
FH01 D5
FH02 E7
FH03 D6
FH04 E7
FH05 D5
FH06 D5
FH07 B2
FH08 A7
IH04 C5
IH06 C7
IH07 C7

3139 123 6273.1

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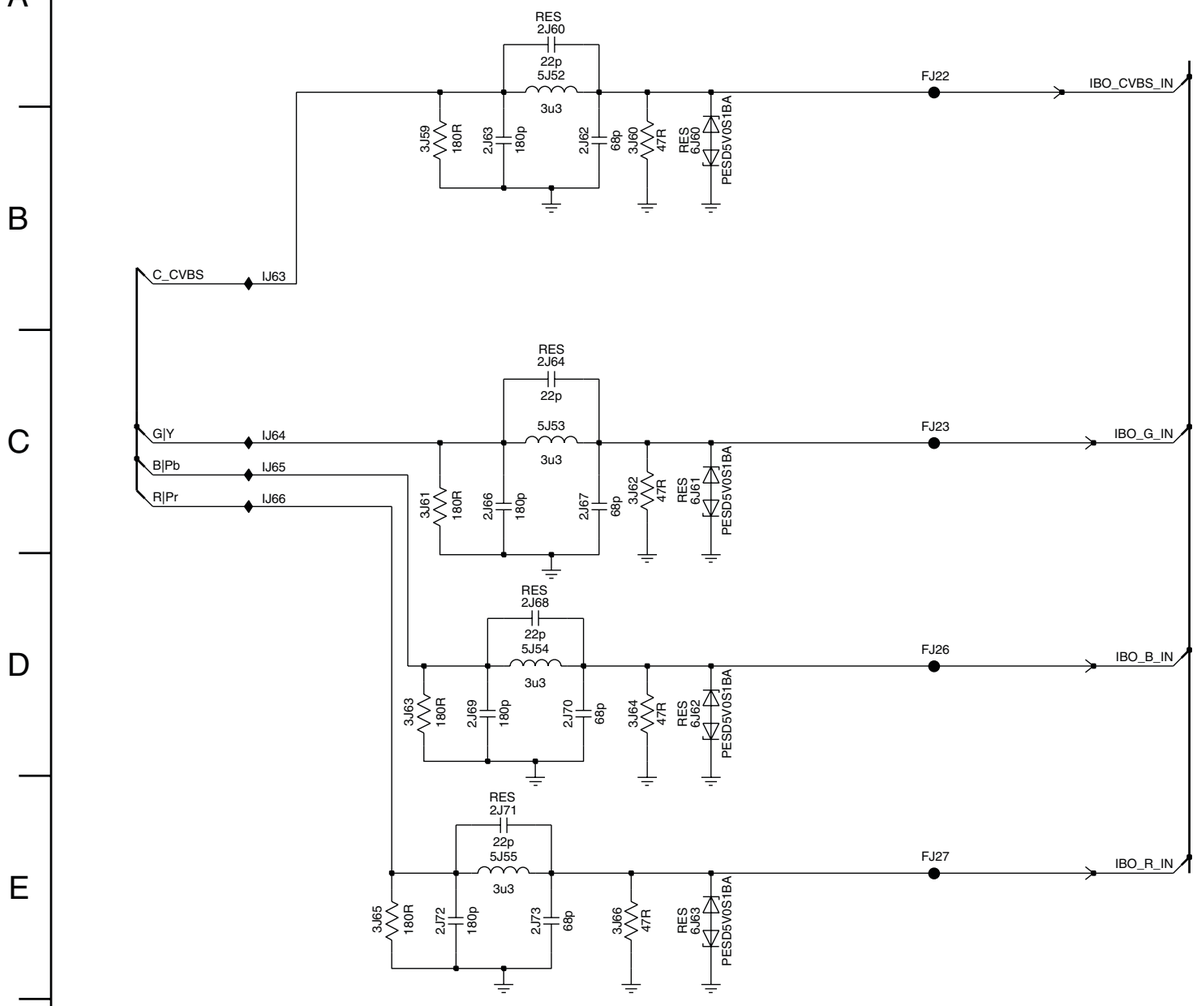
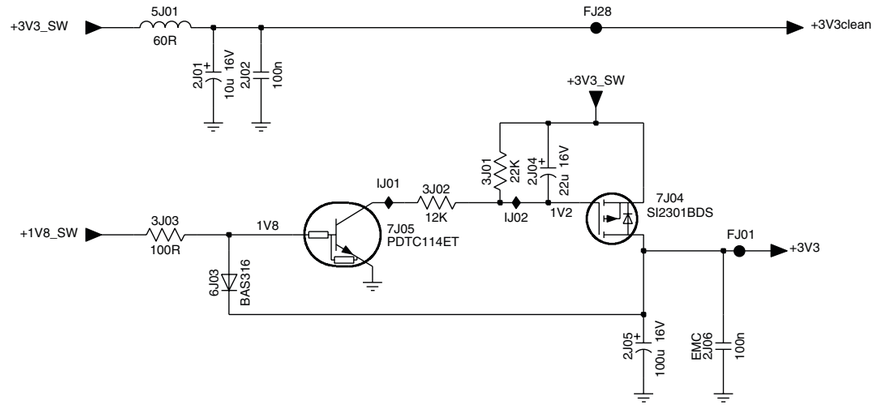
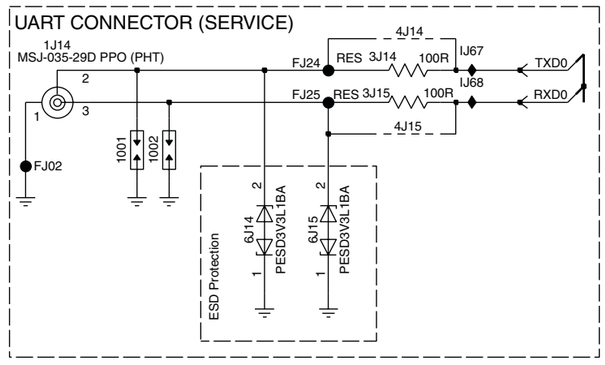
SSB: DVB MOJO Analog Back End

B03E DVB-MOJO ANALOG BACK END

B03E







3139 123 6273.1

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010804

1001 D7
1002 D7
1J14 D6
2J01 B7
2J02 B7
2J04 B8
2J05 C8
2J06 C9
2J60 A3
2J62 B3
2J63 B2
2J64 C3
2J66 C2
2J67 C3
2J68 D2
2J69 D2
2J70 D3
2J71 E2
2J72 E2
2J73 E2
3J01 B8
3J02 B8
3J03 B6
3J14 D8
3J15 D8
3J59 B2
3J60 B3
3J61 C2
3J62 C3
3J63 D2
3J64 D3
3J65 E2
3J66 E3
4J14 C8
4J15 D8
5J01 A6
5J52 A3
5J53 C3
5J54 D2
5J55 E2
6J03 B7
6J14 D7
6J15 D8
6J60 B3
6J61 C3
6J62 D3
6J63 E3
7J04 B9
7J05 B7
FJ01 B9
FJ02 D6
FJ22 A4
FJ23 C4
FJ24 D8
FJ25 D8
FJ26 D4
FJ27 E4
FJ28 A8
IJ01 B7
IJ02 B8
IJ63 B1
IJ64 C1
IJ65 C1
IJ66 C1
IJ67 D8
IJ68 D8

SSB: Micro Processor

B04 MICROPROCESSOR

TO / FROM SIDE IO

TO / FROM IR/ LED & KEYBOARD

COMPAIR

ITV_Connector A:

RESERVED

3139 123 6273.1

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010804

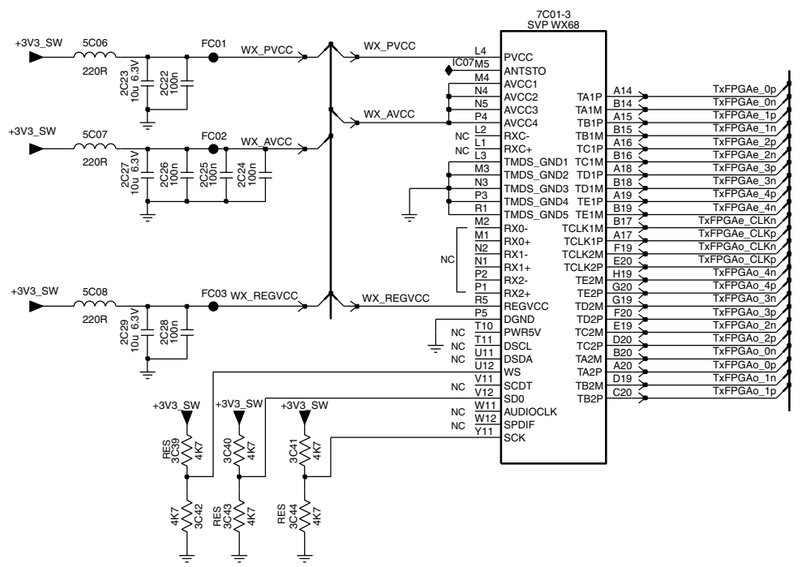
1301 B3 3L15 F1 F353 I5
1302 I3 3L16 F7 F354 I5
1303 I3 3L17 D3 F356 E8
1304 A9 3L20 A11 F357 H8
1305 A9 3L21 A11 F360 I9
1306 H8 3L22 B11 F361 D3
1307 I8 3L23 B11 F362 B5
1308 I8 3L24 A11 F363 G10
1309 I9 3L25 A11 F364 G10
1310 I9 3L26 D5 F365 G10
1311 H7 3L27 B12 F366 E10
1312 I5 3L28 D2 F367 E10
1313 I4 3L53 G7 F368 B10
1314 H3 3L54 G11 F369 E10
1L20 H8 3L55 F5 F370 G6
2310 A4 3L56 F5 F379 D2
2311 C10 3L57 D3 F380 B2
2312 A4 3L58 F5 F381 B3
2313 A4 3L59 C5 F382 H10
2314 B3 3L60 G5 F383 I10
2315 A1 3L61 G5 F384 I10
2316 B3 3L62 F7 F385 D3
2317 B1 3L63 D2 F386 C5
2318 C3 3L67 E5 F387 H10
2319 E9 3L71 G2 F388 H10
2320 F10 3L72 F2 F389 G3
2323 F1 3L73 H2 FL20 A9
2324 F7 3L75 E7 FL21 A9
2327 H9 3L76 E7 FL22 A9
2329 I10 3L79 F5 FL23 A9
2330 I10 3L86 D1 FL24 A9
2331 I10 3L93 F7 FL25 A9
2332 I12 3L94 H2 FL26 A9
2333 I11 3L95 H2 FL36 B6
2335 I11 3L96 B6 I311 B5
2336 I11 4301 F6 I312 B3
2337 I12 4302 H11 I318 G9
2338 E2 4303 H12 I326 C5
2339 I12 4304 H12 I330 D1
2340 I11 4305 H12 I331 D3
2341 E12 4306 G13 I332 D1
2L20 A11 4307 G13 I333 D3
2L21 A11 4309 I12 I334 D1
2L22 A12 4310 I11 I335 D3
2L23 A12 4313 H6 I338 D3
2L24 A12 4314 H11 I341 D5
2L25 A12 4315 H11 I342 D5
2L26 B11 4316 G9 I344 D5
2L27 B11 4323 F1 I351 F5
2L28 B12 4326 D1 I352 C3
2L29 B12 4327 D1 I353 C1
2L30 B11 4328 D1 I354 F5
2L31 B11 4L03 H5 I357 C5
2L32 B12 4L20 A11 I359 G5
2L33 B12 4L21 A11 I362 D6
2L34 C11 4L24 A11 I363 D5
2L35 C12 4L25 A11 I365 G3
3300 C2 4L26 B12 I366 E6
3301 F6 5301 A4 I367 E6
3303 B5 5302 B10 I368 G3
3306 F7 5304 I11 I373 I10
3307 F7 5306 E12 I374 I11
3309 I6 6301 A1 I376 I12
3310 A6 6306 I2 I380 E1
3311 I6 6307 I3 I384 H3
3313 B5 6308 H8 I387 B3
3314 B3 6309 I8 I388 D6
3315 B5 6310 I8 I389 C5
3316 B2 6311 I9 I390 C6
3317 B5 6312 I9 I391 H6
3318 B3 6317 D1 I392 H6
3319 A2 6318 E2 I393 E2
3320 B5 7302 E12 I394 E2
3321 B3 7303 G12 I396 E5
3322 B5 7308 E1 I397 E5
3323 B3 7310 C10 I398 E5
3324 B5 7311 B3 IL20 A12
3325 B1 7312 A1 IL21 A13
3326 E10 7314 F6 IL22 A12
3329 C5 7317 E1 IL23 A13
3330 A6 7322 C6 IL25 F1
3336 E9 7323-1 G1 IL26 G2
3338 D3 7323-2 F1 IL30 C6
3339 D3 7L10 F3 IL31 D6
3340 D3 7L23 G10 IL32 F7
3341 D3 P302 B6 IL33 I1
3343 I2 P303 G6 IL34 I11
3345 I2 P304 C6 IL35 I12
3346 D5 P305 F5 IL37 B6
3347 D5 P309 G5 IL38 B6
3348 D5 P310 C10 IL39 C6
3349 D5 P311 C10
3350 E5 P312 C12
3351 G7 P313 C10
3352 G7 P314 C12
3353 F11 P315 C10
3354 G7 P316 C12
3355 G11 P317 D10
3356 C7 P318 D12
3357 C5 P319 D10
3359 F13 P320 D12
3360 F13 P321 D10
3361 G13 P322 D12
3362 G13 P323 B6
3380 D5 P324 D10
3382 E7 P325 D12
3384 G2 P326 D10
3386 H2 P327 D12
3387 D5 P328 D10
3388 E5 P329 D10
3389 H11 P330 A1
3390 I11 P331 D10
3391 I11 P332 D10
3393 D1 P333 D10
3395 E2 P334 D10
3396 C7 P335 D10
3397 E5 P336 D10
3398 E2 P337 D12
3399 E3 P338 D10
3L01 G6 P339 E10
3L02 G5 P340 E10
3L03 H5 P341 E10
3L04 E2 P342 H3
3L05 B5 P343 I3
3L06 H6 P344 I3
3L07 H7 P345 G10
3L08 H6 P346 I5
3L09 H6 P347 I5
3L10 H11 P348 I5
3L11 C7 P349 I5
3L12 G7 P350 F8
3L13 G7 P351 I5
3L14 G9 P352 I5

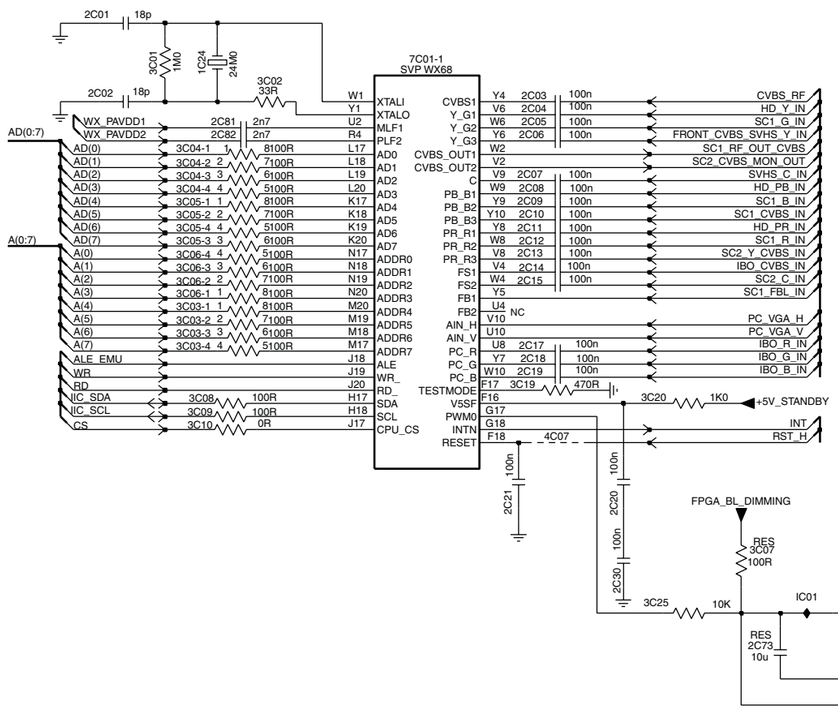
SSB: Trident WX68

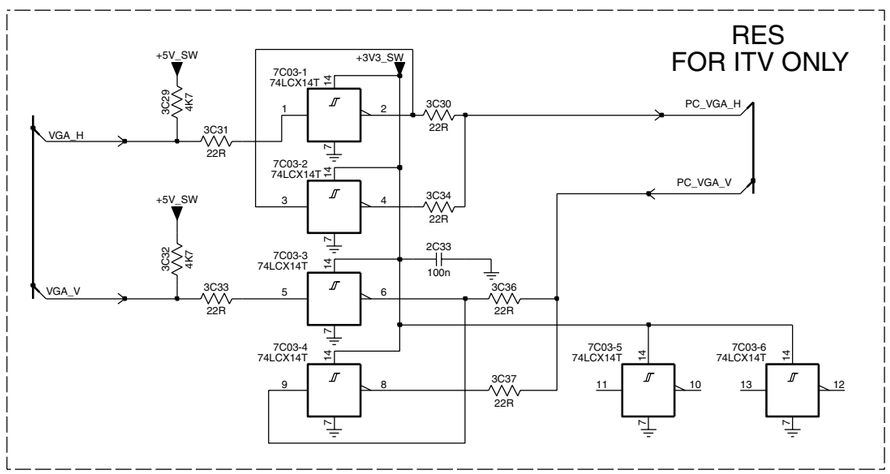
B05A Trident - WX68

B05A

Pin Name	Pin No	1(HIGH)	0(LOW)
WS	U12	Use ALE to latch Address	Use Falling Edges of WR#&RD# to latch Address(*)
SD0	V12	Use Rising Edge of WR# to latch data(*)	Use Falling Edge of WR# to latch dat a
SCK	Y11	I2C Slave Address=0x7E/7F(*)	I2C Slave Address=0x7C/7D







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H_17370_010.eps
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1C24 A6 FC02 A2
2C01 A6 FC03 B2
2C02 A6 IC01 D10
2C03 A8 IC02 D11
2C04 B8 IC07 A3
2C05 B8
2C06 B8
2C07 B8
2C08 B8
2C09 B8
2C10 B8
2C11 B8
2C12 B8
2C13 B8
2C14 B8
2C15 B8
2C17 C8
2C18 C8
2C19 C8
2C20 D8
2C21 D8
2C22 A1
2C23 A1
2C24 B2
2C25 B2
2C26 B1
2C27 B1
2C28 C1
2C29 C1
2C30 D9
2C33 F3
2C73 D9
2C74 D11
2C81 B6
2C82 B6
3C01 A6
3C02 A7
3C03-1 C6
3C03-2 C6
3C03-3 C6
3C03-4 C6
3C04-1 B6
3C04-2 B6
3C04-3 B6
3C04-4 B6
3C05-1 B6
3C05-2 B6
3C05-3 B6
3C05-4 B6
3C06-1 C6
3C06-2 B6
3C06-3 B6
3C06-4 B6
3C07 D9
3C08 C6
3C09 C6
3C10 C6
3C19 C8
3C20 C9
3C22 D10
3C23 D11
3C24 D11
3C25 D9
3C29 E2
3C30 E3
3C31 F2
3C32 F2
3C33 F2
3C34 F3
3C36 F3
3C37 G3
3C39 C1
3C40 C2
3C41 C2
3C42 D2
3C43 D2
3C44 D2
4C07 C8
4C08 E10
5C06 A1
5C07 A1
5C08 B1
7C01-1 A7
7C01-3 A3
7C02 D10
7C03-1 E2
7C03-2 F2
7C03-3 F2
7C03-4 G2
7C03-5 G4
7C03-6 G5
7C04 D10
FC01 A2

SSB: DDR & CPU Interface

B05B DDR&CPU INTERFACE

B05B

+2V5_SW 5D03 220R FD01 +2V5_VDDMQ

2D71 22u 6.3V 2D72 10n

+2V5_VDDMQ +2V5_VDDMQ

2D33 100n 3D15 1K0 DDR_VREF

RES 2D31 100n 2D32 100n 2D34 100n 3D16 1K0

+2V5_VDDMQ

2D18 10u

2D02 100n 2D11 470p 2D04 10n

2D08 10n 2D09 10n 2D10 100n 2D12 470p 2D03 100n

7D01 K4D261638K

VDD VDDQ

WX_MA0 WX_MA1 WX_MA2 WX_MA3 WX_MA4 WX_MA5 WX_MA6 WX_MA7 WX_MA8 WX_MA9 WX_MA10 WX_MA11

A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 A10|AP A11

DQ0 1_DQ0 3D06-1 WX_MD4
DQ1 1_DQ1 3D06-2 WX_MD5
DQ2 1_DQ2 3D06-3 WX_MD6
DQ3 1_DQ3 3D06-4 WX_MD7
DQ4 1_DQ4 3D05-4 WX_MD3
DQ5 1_DQ5 3D05-3 WX_MD2
DQ6 1_DQ6 3D05-2 WX_MD1
DQ7 1_DQ7 3D05-1 WX_MD0
DQ8 1_DQ8 3D02-4 WX_MD15
DQ9 1_DQ9 3D02-3 WX_MD14
DQ10 1_DQ10 3D02-2 WX_MD12
DQ11 1_DQ11 3D02-1 WX_MD13
DQ12 1_DQ12 3D01-1 WX_MD9
DQ13 1_DQ13 3D01-2 WX_MD8
DQ14 1_DQ14 3D01-3 WX_MD10
DQ15 1_DQ15 3D01-4 WX_MD11

22R

DDR_VREF → VREF

WX_CS0# WX_MCK0 WX_MCK0# WX_CLKE → CS_ CK CK_ CKE

WX_BA0 WX_BA1 → BA0 BA1

WX_DQM0 WX_DQM1 → LDM UDM

WX_DQS0 3D11 15R 1_DDQS0 → LDQS
WX_DQS1 3D09 15R 1_DDQS1 → UDQS

WX_WE# WX_CAS# WX_RAS# → WE_ CAS_ RAS_

NC1 NC2 NC3 NC4 NC5 NC6 NC

DNU1 DNU2

VSS VSSQ

ID01

51R 3D10 51R 3D14

2D14 10n

+2V5_VDDMQ

2D46 10u

2D37 100n 2D43 470p 2D57 10n

2D58 10n 2D59 10n 2D38 100n 2D60 470p 2D39 100n

7D02 K4D261638K

VDD VDDQ

WX_MA0 WX_MA1 WX_MA2 WX_MA3 WX_MA4 WX_MA5 WX_MA6 WX_MA7 WX_MA8 WX_MA9 WX_MA10 WX_MA11

A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 A10|AP A11

DDR_VREF → VREF

WX_CS0# WX_MCK0 WX_MCK0# WX_CLKE → CS_ CK CK_ CKE

WX_BA0 WX_BA1 → BA0 BA1

WX_DQM2 WX_DQM3 → LDM UDM

WX_DQS2 3D38 15R 2_DDQS2 → LDQS
WX_DQS3 3D40 15R 2_DDQS3 → UDQS

WX_WE# WX_CAS# WX_RAS# → WE_ CAS_ RAS_

DQ0 2_DQ16 3D43-1 WX_MD20
DQ1 2_DQ17 3D43-2 WX_MD21
DQ2 2_DQ18 3D43-3 WX_MD22
DQ3 2_DQ19 3D43-4 WX_MD23
DQ4 2_DQ20 3D44-4 WX_MD18
DQ5 2_DQ21 3D44-3 WX_MD16
DQ6 2_DQ22 3D44-2 WX_MD17
DQ7 2_DQ23 3D44-1 WX_MD19
DQ8 2_DQ24 3D47-4 WX_MD31
DQ9 2_DQ25 3D47-3 WX_MD30
DQ10 2_DQ26 3D47-2 WX_MD28
DQ11 2_DQ27 3D47-1 WX_MD29
DQ12 2_DQ28 3D48-1 WX_MD24
DQ13 2_DQ29 3D48-2 WX_MD25
DQ14 2_DQ30 3D48-3 WX_MD26
DQ15 2_DQ31 3D48-4 WX_MD27

22R

NC1 NC2 NC3 NC4 NC5 NC6 NC

DNU1 DNU2

VSS VSSQ

ID05

3139 123 6273.1

H_17370_011.eps 010804

2D02 C2
2D03 C3
2D04 C3
2D08 C3
2D09 C3
2D10 C3
2D11 C2
2D12 C3
2D14 G1
2D18 C2
2D31 B3
2D32 B4
2D33 B4
2D34 B4
2D37 C8
2D38 C9
2D39 C9
2D43 C8
2D46 C7
2D57 C8
2D58 C8
2D59 C9
2D60 C9
2D71 B2
2D72 B2
3D01-1 E4
3D01-2 E4
3D01-3 E4
3D01-4 E4
3D02-1 E4
3D02-2 E4
3D02-3 D4
3D02-4 D4
3D05-1 D4
3D05-2 D4
3D05-3 D4
3D05-4 D4
3D06-1 D4
3D06-2 D4
3D06-3 D4
3D06-4 D4
3D09 F1
3D10 G1
3D11 F1
3D14 G1
3D15 B4
3D16 B4
3D38 F7
3D40 F7
3D43-1 D10
3D43-2 D10
3D43-3 D10
3D43-4 D10
3D44-1 D10
3D44-2 D10
3D44-3 D10
3D44-4 D10
3D47-1 E10
3D47-2 E10
3D47-3 D10
3D47-4 D10
3D48-1 E10
3D48-2 E10
3D48-3 E10
3D48-4 E10
5D03 B1
7D01 D2
7D02 D8
FD01 B2
ID01 G2
ID05 G8

SSB: WX Power / Ground

B05C WX POWER / GROUND

B05C

Pin Name	Pin No	1(HIGH)	0(LOW)
DP_HS	P19	MPU in A/D Multiplix Mode	MPU in A/D Separate Mode(*)

2E01 E2 FE04 F2
2E02 E2 FE05 G2
2E03 E2 FE06 A1
2E04 E2 FE07 B1
2E05 F1 FE08 B1
2E06 F1 IE04 C9
2E07 F2 IE05 C9
2E08 F2 IE06 C9
2E09 F2 IE07 C9
2E10 F2 IE08 D9
2E11 G2 IE09 D9
2E12 G2 IE10 C6
2E13 G2 IE11 D6
2E14 G2 IE12 F6
2E15 G2 IE15 C9
2E16 G2
2E17 G2
2E18 G2
2E19 C6
2E20 C6
2E21 C6
2E22 C6
2E23 D6
2E24 D6
2E25 D6
2E26 D6
2E27 E6
2E28 E6
2E29 E6
2E30 E6
2E31 F6
2E32 F6
2E33 F6
2E34 F6
2E35 D2
2E36 D2
2E37 D2
2E38 D2
2E39 D2
2E40 D2
2E41 D3
2E42 D3
2E43 D1
2E44 A3
2E45 A3
2E46 A3
2E47 A4
2E48 A3
2E49 C3
2E50 C3
2E51 C3
2E52 C3
2E53 C2
2E54 C2
2E55 C2
2E56 C2
2E57 C1
2E58 C2
2E66 C1
2E67 A2
2E68 A1
2E69 B2
2E70 B1
2E71 B1
2E72 B2
2E75 D3
2E76 D3
2E77 E3
3E02 C7
3E04 D7
3E05 C11
3E06 C11
3E07 E3
5E03 E1
5E04 F1
5E05 G1
5E06 B7
5E07 C7
5E08 D7
5E09 E7
5E10 F7
5E11 F7
5E12 A1
5E13 B1
5E14 B1
5E16 D1
5E17 E1
7C01-2 B10
7C01-4 B4
FE01 D2
FE02 E2
FE03 F2

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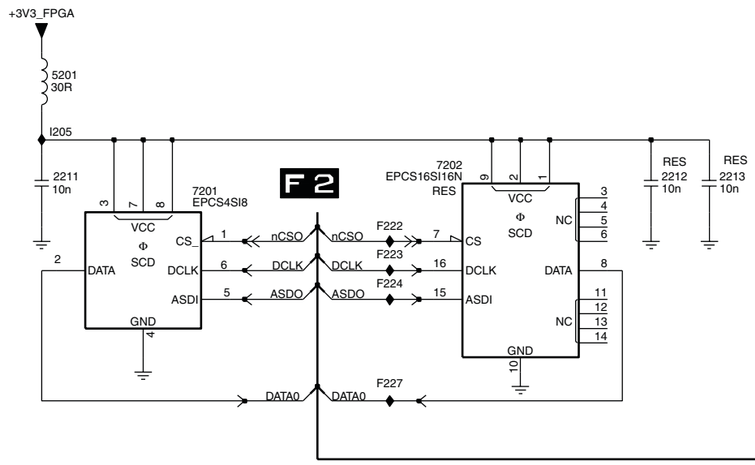
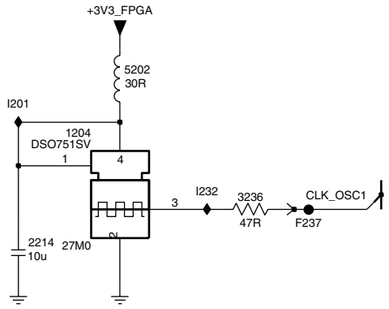
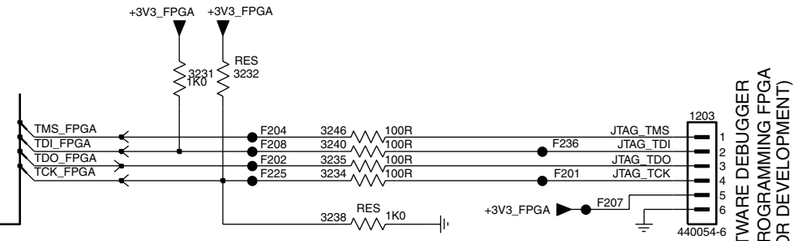
SSB: FPGA Interface (AL Sets only)

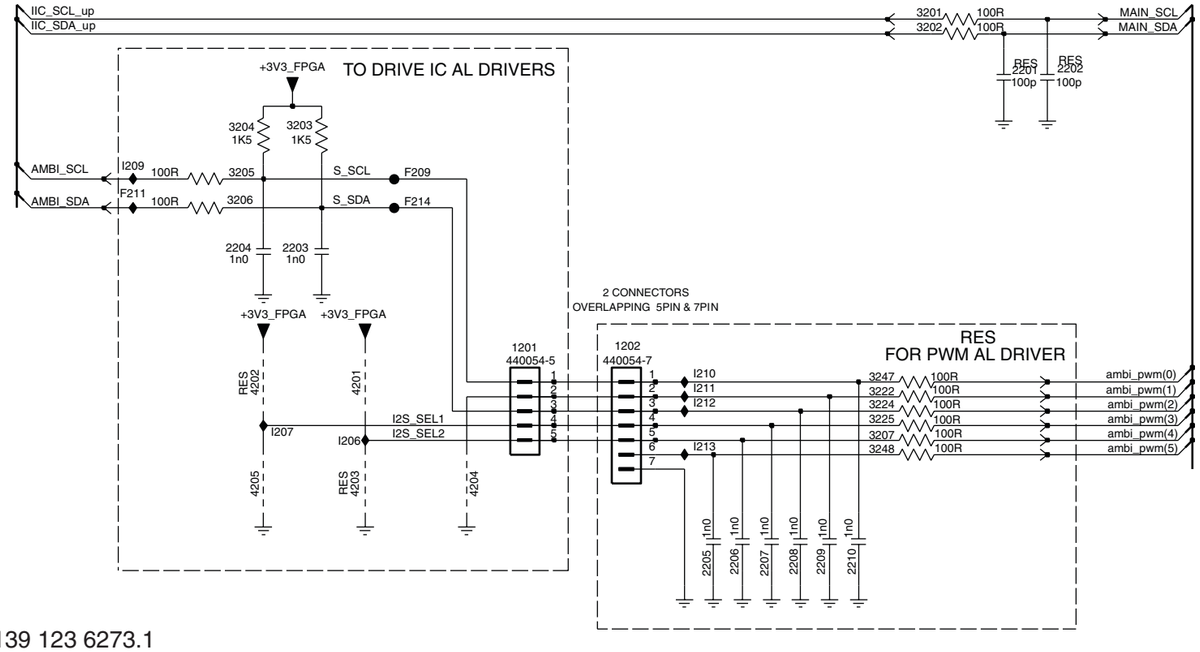
B05D FPGA INTERFACE (ONLY FOR AMBI-LIGHT SET)

B05D









1201 F3
1202 F4
1203 C9
1204 A7
2201 E6
2202 E6
2203 F2
2204 F2
2205 G4
2206 G4
2207 G4
2208 G4
2209 G5
2210 G5
2211 B2
2212 B5
2213 B6
2214 B7
3201 E5
3202 E5
3203 E2
3204 E2
3205 E2
3206 E2
3207 G5
3222 F5
3224 F5
3225 G5
3231 C7
3232 C7
3234 C7
3235 C7
3236 A8
3238 C7
3240 C7
3246 C7
3247 F5
3248 G5
4201 F2
4202 F2
4203 G2
4204 G3
4205 G2
5201 A2
5202 A7
7201 B3
7202 B4
F201 C9
F202 C7
F204 C7
F207 C9
F208 C7
F209 E3
F211 E1
F214 E3
F222 B4
F223 B4
F224 B4
F225 C7
F227 C4
F236 C9
F237 B8
I201 A6
I205 B2
I206 G2
I207 G2
I209 E1
I210 F4
I211 F4
I212 F4
I213 G4
I232 A7

H_17370_013.eps
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SSB: FPGA I/O Banks

B05E FPGA I/O BANKS

B05E

+3V3_SW 5700 30R F701 +3V3_FPGA
2701 1u0
2702 10n 2703 10n 2704 10n 2705 10n

+2V5_SW 5701 30R F702 +2V5out-FPGA
2706 4u7
2707 10n 2708 10n 2709 10n 2710 10n 2711 10n 2712 10n 2713 10n 2714 10n 2715 10n

5702 30R F703 +2V5in-FPGA
2717 4u7
2718 10n 2719 10n 2720 10n 2721 10n

+1V2_SW 5703 30R +1V2-FPGA
2724 47u 4V
2725 10n 2726 10n

5704 30R F705 5705 30R F704 +1V2-PLL
2729 1u0
2730 10n

B02 FROM TRIDENT

TxFPGAo_3p 3747 22R 3748 180R
TxFPGAo_3n 3749 22R
TxFPGAo_1p 3738 22R 3739 180R
TxFPGAo_1n 3740 22R
TxFPGAo_0p 3735 22R 3736 180R
TxFPGAo_0n 3737 22R
TxFPGAo_2p 3741 22R 3742 180R
TxFPGAo_2n 3743 22R
TxFPGAo_4p 3744 22R 3745 180R
TxFPGAo_4n 3746 22R

INPUT BANK
7700-5 EP2C5F256C7N
BANK4
IO_M11|LVDS43p IO_T7|LVDS54p
IO_L11|LVDS43n IO_R7|LVDS54n
IO_T14|LVDS44p IO_T5|LVDS55p
IO_R14|LVDS44n IO_R5|LVDS55n
IO_T13|LVDS45p IO_T4|LVDS56p
IO_R13|LVDS45n IO_R4|LVDS56n
IO_T12|LVDS46p IO_P5|LVDS57p
IO_R12|LVDS46n IO_P4|LVDS57n
IO_P12|LVDS47p IO_T3|LVDS58p
IO_P13|LVDS47n IO_R3|LVDS58n
IO_K11|LVDS48p IO_N9|LVDS59p
IO_K10|LVDS48n IO_N10|LVDS59n
IO_R10|LVDS49p IO_L7|LVDS60p
IO_T10|LVDS49n IO_L8|LVDS60n
IO_R11|LVDS51n IO_P11
IO_T9|LVDS52p IO_T6
IO_R9|LVDS52n
IO_T8|LVDS53p
IO_R8|LVDS53n

3720 22R TxFPGAe_3p
3721 180R
3722 22R TxFPGAe_3n
3723 22R TxFPGAe_2p
3724 180R
3725 22R TxFPGAe_2n
3726 22R TxFPGAe_1p
3727 180R
3728 22R TxFPGAe_1n
3729 22R TxFPGAe_0p
3730 180R
3731 22R TxFPGAe_0n
3732 22R TxFPGAe_4p
3733 180R
3734 22R TxFPGAe_4n

B02 FROM TRIDENT

FPGA BYPASS

TxFPGAo_0n 4703 TxLVDSo_0n
TxFPGAo_0p 4704 TxLVDSo_0p
TxFPGAo_1n 4705 TxLVDSo_1n
TxFPGAo_1p 4706 TxLVDSo_1p
TxFPGAo_2n 4707 TxLVDSo_2n
TxFPGAo_2p 4708 TxLVDSo_2p
TxFPGAo_3n 4709 TxLVDSo_3n
TxFPGAo_3p 4710 TxLVDSo_3p
TxFPGAo_4n 4711 TxLVDSo_4n
TxFPGAo_4p 4712 TxLVDSo_4p
TxFPGAo_CLKn 4723 TxLVDSo_CLKn
TxFPGAo_CLKp 4724 TxLVDSo_CLKp

TxFPGAe_0n 4713 TxLVDSe_0n
TxFPGAe_0p 4714 TxLVDSe_0p
TxFPGAe_1n 4715 TxLVDSe_1n
TxFPGAe_1p 4716 TxLVDSe_1p
TxFPGAe_2n 4717 TxLVDSe_2n
TxFPGAe_2p 4718 TxLVDSe_2p
TxFPGAe_3n 4719 TxLVDSe_3n
TxFPGAe_3p 4720 TxLVDSe_3p
TxFPGAe_4n 4721 TxLVDSe_4n
TxFPGAe_4p 4722 TxLVDSe_4p
TxFPGAe_CLKn 4725 TxLVDSe_CLKn
TxFPGAe_CLKp 4726 TxLVDSe_CLKp

Note:
Jumpers 4703 - 4726
are presented in all sets

B21 TO LVDS

TxLVDSe_3p C4
TxLVDSe_3n C5
TxLVDSe_0p G7
TxLVDSe_0n G6
TxLVDSe_2p F9
TxLVDSe_2n F6
TxLVDSo_0p A3
TxLVDSo_0n B3
TxLVDSo_1p A4
TxLVDSo_1n B4
TxLVDSo_2p A5
TxLVDSo_2n B5
TxLVDSo_CLKp C6
TxLVDSo_CLKn D6
TxLVDSe_4p A6
TxLVDSe_4n B6
TxLVDSe_1p F8
TxLVDSe_1n F7
TxLVDSo_CLKp B7
TxLVDSo_CLKn A7

OUTPUT BANK
7700-3 EP2C5F256C7N
BANK2
IO_C4|LVDS10p IO_B9|LVDS21p
IO_C5|LVDS10n IO_A9|LVDS21n
IO_G7|LVDS11p IO_D10|LVDS22p
IO_G6|LVDS11n IO_D11|LVDS22n
IO_F9|LVDS12p IO_A10|LVDS23p
IO_F10|LVDS12n IO_B10|LVDS23n
IO_E6|LVDS13p IO_G11|LVDS24p
IO_F6|LVDS13n IO_G10|LVDS24n
IO_A3|LVDS14p IO_A12|LVDS25p
IO_B3|LVDS14n IO_B12|LVDS25n
IO_A4|LVDS15p IO_A13|LVDS26p
IO_B4|LVDS15n IO_B13|LVDS26n
IO_A5|LVDS16p IO_C12|LVDS27p
IO_B5|LVDS16n IO_C13|LVDS27n
IO_C6|LVDS17p IO_A14|LVDS28p
IO_D6|LVDS17n IO_B14|LVDS28n
IO_A6|LVDS18p IO_D8|VREFB2N1
IO_B6|LVDS18n IO_C11|VREFB2N0
IO_F8|LVDS19p IO_A8
IO_F7|LVDS19n IO_A11
IO_B7|LVDS20p IO_B11
IO_A7|LVDS20n

B21 TO LVDS

TxLVDSo_3p B9
TxLVDSo_3n A9
TxLVDSo_4p D10
TxLVDSo_4n D11
A10
B10
G11
NC A12
B12
A13
B13
C12
C13
A14
B14
D8
C11
A8
A11
B11

7700-6 EP2C5F256C7N
POWER
+3V3_FPGA
B1 G3 K3 R1 VCCIO1
+2V5out-FPGA
A15 A2 C10 C7 E10 E7 B16 G14 K14 R16 VCCIO2 VCCIO3
+2V5in-FPGA
M10 M7 P10 P7 T15 T2 VCCIO4
+1V2-FPGA
G9 H10 H7 J7 VCCINT
+1V2-PLL
M5 E12 VCCA_PLL
L6 F11 VCCD_PLL
A1 A16 B15 B2 C8 C9 E8 E9 G8 H14 H3 H8 H9 J14 J3 J8 J9 K9 M8 M9 P8 P9 R15 R2 T1 T16 GND
L5 N5 GND_PLL1
D12 F12 GND_PLL2
M6 E11 GNDA_PLL

7700-1 EP2C5F256C7N
CONTROL
+3V3_FPGA
3703 10K 3700 10K 3701 10K 4700
CLK_OSC1
MAIN_SCL H2 H1 J2 J1 H16 H15 J15 J16
TxFPGAo_CLKp 3750 22R
TxFPGAo_CLKn 3751 22R
TxFPGAe_CLKp 3752 22R
TxFPGAe_CLKn 3753 22R
3714 2K2
3713 10K
DATA0 F1 H4 DCLK
RES 2734 1n0
CE G5
STATUS M13 F706
CONFIG J5 L13 F734
CONF_DONE
MSEL J13 K12 F733
TCK F2 TCK_FPGA
TMS G1 TMS_FPGA
TDO G2 TDO_FPGA
TDI H5 TDI_FPGA
4701 RES
3702 10K

7700-2 EP2C5F256C7N
BANK1
ASDO C3 IO_C3|ASDO
nCSO F4 IO_F4|CSO
MAIN_SDA P1 IO_P1|LVDS0p
P2 IO_P2|LVDS0n
AMBI_SDA N1 IO_N1|LVDS1p
N2 IO_N2|LVDS1n
L1 IO_L1|LVDS2p
L2 IO_L2|LVDS2n
FPGA_BL_DIMMING K4 IO_K4|LVDS3p
K5 IO_K5|LVDS3n
K1 IO_K1|LVDS4p
K2 IO_K2|LVDS4n
ambi_pwm(5) E1 IO_E1|LVDS5p
ambi_pwm(2) E2 IO_E2|LVDS5n
ambi_pwm(3) D3 IO_D3|LVDS6p
D4 IO_D4|LVDS6n
IO_E3|LVDS7p E3
IO_E4|LVDS7n E4 NC
IO_D5|LVDS8p D5
IO_E5|LVDS8n E5
IO_C1|LVDS9p C1
IO_C2|LVDS9n C2
IO_L4|PLL1_OUTp L4
IO_M4|PLL1_OUTn M4
IO_F3|VREFB1N0 F3 NC
IO_J4|VREFB1N1 J4
L3
IO_L3 M1
IO_M1 M2
IO_M2 M3
IO_M3 P3
I712 ambi_pwm(4)
I705 ambi_pwm(0)
ambi_pwm(1)
I728
I713
AMBI_SCL
RES 2700 1n0

7700-4 EP2C5F256C7N
BANK3
IO_D13|LVDS30p M16|LVDS38p
IO_C14|LVDS30n M15|LVDS38n
IO_D16|LVDS36p N16|LVDS39p
IO_D15|LVDS36n N15|LVDS39n
IO_G13|LVDS31p P16|LVDS40p
IO_G12|LVDS31n P15|LVDS40n
IO_H11|LVDS32p N14|LVDS41p
IO_J11|LVDS32n N13|LVDS41n
IO_F16|LVDS33p M12|LVDS42p
IO_F15|LVDS33n N12|LVDS42n
IO_G15|LVDS34p M14|VREFB3N1
IO_G16|LVDS34n H13|VREFB3N0
IO_J12|LVDS35p E14|PLL2_OUTp
IO_H12|LVDS35n D14|PLL2_OUTn
IO_K15|LVDS36p IO_E16
IO_K16|LVDS36n IO_L14
IO_L16|LVDS37p P14
IO_L15|LVDS37n
NC

7700-7 EP2C5F256C7N
NC
B8 C15 C16 D1 D2 D7 D9 E15 F13 F14 F5 G4 NC
H6 J10 J6 K13 K6 K7 K8 K3 N4 N6 N7 P6 P6 NC
NC NC

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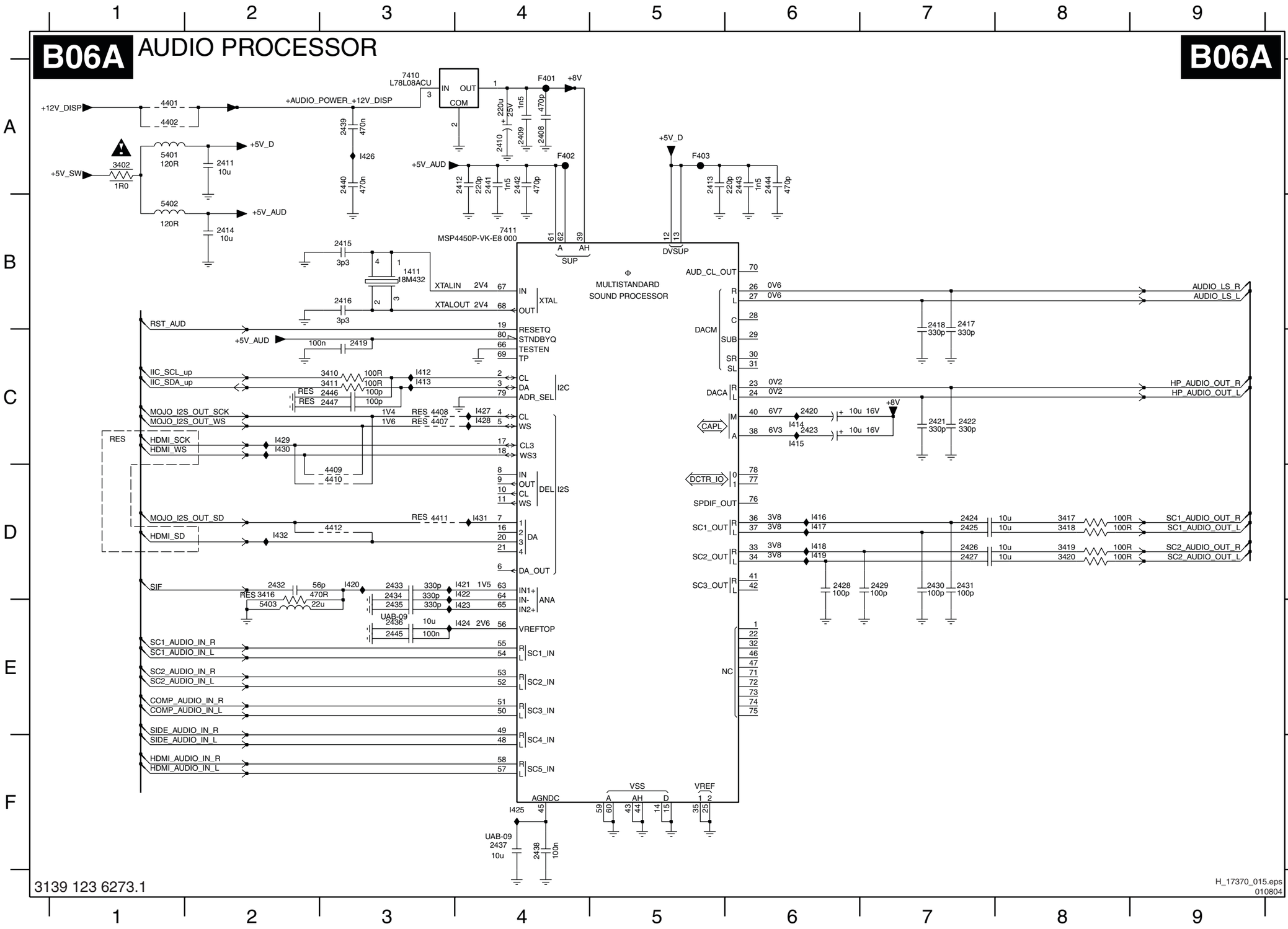
2700 H1
2701 B2
2702 B3
2703 B4
2704 B4
2705 B4
2706 C2
2707 C2
2708 C2
2709 C3
2710 C3
2711 C3
2712 C4
2713 C4
2714 C4
2715 C4
2717 C2
2718 C2
2719 C2
2720 C3
2721 C3
2724 D2
2725 D3
2726 D3
2729 E2
2730 E3
2734 G8
3700 F10
3701 F10
3702 G11
3703 F9
3713 G7
3714 F7
3720 B10
3721 B10
3722 B10
3723 B10
3724 B10
3725 C10
3726 C10
3727 C10
3728 C10
3729 C10
3730 D10
3731 D10
3732 E10
3733 E10
3734 E10
3735 C6
3736 G7
3737 C6
3738 B6
3739 B7
3740 B6
3741 C6
3742 C7
3743 C6
3744 D6
3745 D7
3746 D6
3747 B6
3748 B7
3749 B6
3750 F6
3751 F6
3752 G6
3753 G6
4700 F10
4701 G10
4703 C12
4704 C12
4705 C12
4706 C12
4707 C12
4708 C12
4709 C12
4710 C12
4711 C12
4712 C12
4713 D12
4714 D12
4715 D12
4716 D12
4717 D12
4718 D12
4719 D12
4720 D12
4721 D12
4722 D12
4723 C12
4724 D12
4725 D12
4726 E12
5700 B1
5701 B1
5702 C1
5703 D1
5704 E1
5705 E2
7700-1 F8
7700-2 G3
7700-3 B14
7700-4 H13
7700-5 B8
7700-6 E14
7700-7 I15
F701 B2
F702 B2
F703 C2
F704 E2
F705 E2
F706 F9
F733 G9
F734 F9
I705 G4
I712 G4
I713 H2
I728 H2

SSB: Audio Processor

B06A AUDIO PROCESSOR

B06A



1411 B3 I424 E4
2408 A4 I425 F4
2409 A4 I426 A3
2410 A4 I427 C4
2411 A2 I428 C4
2412 A4 I429 C2
2413 A5 I430 C2
2414 B2 I431 D4
2415 B3 I432 D2
2416 B3
2417 B7
2418 B7
2419 C3
2420 C6
2421 C7
2422 C7
2423 C6
2424 D7
2425 D7
2426 D7
2427 D7
2428 D6
2429 D7
2430 D7
2431 D7
2432 D2
2433 D3
2434 D3
2435 E3
2436 E3
2437 F4
2438 F4
2439 A3
2440 A3
2441 A4
2442 A4
2443 A6
2444 A6
2445 E3
2446 C3
2447 C3
3402 A1
3410 C3
3411 C3
3416 D2
3417 D8
3418 D8
3419 D8
3420 D8
4401 A1
4402 A1
4407 C3
4408 C3
4409 D3
4410 D3
4411 D3
4412 D3
5401 A1
5402 B1
5403 E2
7410 A3
7411 B4
F401 A4
F402 A4
F403 A5
I412 C3
I413 C3
I414 C6
I415 C6
I416 D6
I417 D6
I418 D6
I419 D6
I420 D3
I421 D4
I422 D4
I423 E4

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SSB: Audio

B06B AUDIO

B06B

TO / FROM PSU

1A03 440054-3

RES 2A50 10n 1n0 2A51 GNDSND

RES 2A52 10n 1n0 2A53 GNDSND

FA13 FA14 -12V2 5A08 10u -AUDIO_POWER

FA15 FA16 +12V2 5A09 10u +AUDIO_POWER

FA17 FA18 GNDSND

RES 2A54 100n

+AUDIO_POWER 5A07 33R RES 4A01 IA40 +AUDIO_POWER_+12V_DISP

RES 4A02

2A46 47n

IA41

2A47 47n GNDSND

3A01 10R IA24 11V9 VDDA

2A01 100n GNDSND

+AUDIO_POWER FA01 5A05 30R IA26 12V2 VDD

2A04 220u 25V GNDSND

-AUDIO_POWER FA02 5A06 30R IA27 +12V2 VSS

2A08 220u 25V GNDSND

3A02 10R IA25 -12V2 VSSA

2A02 100n GNDSND

★	LCD	PDP
3A03	10K	6K8
3A04	12K	22K
3A06	10K	6K8
3A07	10K	6K8
3A08	12K	22K
3A11	10K	6K8

7A01 TDA8932T

CLASS D POWER AMPLIFIER

AUDIO_LS_L FA05 ★ 3A03 IA01 2A11 1u0 IA02 ★ 3A04 2A12 220p IN1P -2V8

FA06 ★ 3A06 ★ 3A07 IA05 2A15 1u0 IA06 ★ 3A08 2A19 220p IN1N -2V8

IA10 IA09 IN2P -2V8

AUDIO_LS_R FA09 ★ 3A11 IA11 2A20 1u0 IA12 IN2N -2V8

2A22 100n IA13 INREF -7V6

VSSA 2A24 100n 3A13 39K IA15 OSCREF

ENGAGE FA12 NC OSCIO

GNDSND HVPREF -8V2

VSSA 2A29 100n IA19 DREF 4V7

IA33 3A26 4K7 ENGAGE 3V2

STANDBYn 3A19 10K IA21 POWERUP -2V6

IA22 TEST

2A40 470n EMC 2A32 1n0 CGND VSSA VSSP VSSD|HW

VDDA VDD 2A09 100n 2A10 100n GNDSND GNDSND

VDDA VDDP 2A33 100n 2A34 100n GNDSND GNDSND

OUT1 IA03 OUT2 IA07 DIAG EMC 2A18 1n0 FA04 GNDSND

HVP1 NC HVP2 NC 3A12 1M0 2A25 15n IA14 BOOT1

BOOT2 2A27 15n IA16 STAB1 3A15 1M0 IA18 STAB2

2A30 100n VSS

VSSA VSS

IA23 5A03 22u 3A09 10R IA35 2A21 1n0 IA36 2A35 1n0 GNDSND

IA20 5A04 22u 3A17 10R IA38 2A31 1n0 IA39 2A36 1n0 GNDSND

2A13 220n IA34 2A37 220n IA04 3A05 22R GNDSND

2A14 470n 2A17 1n0 GNDSND

2A45 1n0 2A28 470n 2A23 1n0 GNDSND

2A26 220n IA37 2A38 220n IA17 3A14 22R GNDSND

GNDSND

TO SUBWOOFER OUT

1A02 440054-3

TO SPEAKERS

1A01 440054-4

FA07 1 LEFT +

FA08 2 GND

FA10 3 GND

FA11 4 RIGHT -

DC-DETECTION

VDD 3A29 47K IA30 7A05 BC857BW DC_PROT FA32

3A30 47K 3A31 10K GNDSND

7A06 BC847BW IA31 IA29 3A27 220K 3A28 220K GNDSND

7A07 BC847BW

2A41 1u0 GNDSND

1A01 D11 FA11 E11
1A02 C11 FA12 E2
1A03 B1 FA13 B1
2A01 B7 FA14 B1
2A02 B9 FA15 B1
2A04 C6 FA16 B1
2A08 C9 FA17 B1
2A09 D5 FA18 B1
2A10 D5 FA32 F11
2A11 D3 IA01 D2
2A12 D4 IA02 D3
2A13 D8 IA03 D6
2A14 D7 IA04 D9
2A15 D3 IA05 D2
2A16 E3 IA06 D3
2A17 D8 IA07 D6
2A18 E6 IA09 E3
2A19 E4 IA10 E2
2A20 E3 IA11 E2
2A21 D7 IA12 E3
2A22 E3 IA13 E4
2A23 E8 IA14 E6
2A24 E3 IA15 E4
2A25 E6 IA16 E6
2A26 E8 IA17 E9
2A27 E6 IA18 E5
2A28 E7 IA19 E4
2A29 E3 IA20 E6
2A30 F6 IA21 F4
2A31 F7 IA22 F4
2A32 F4 IA23 D6
2A33 G5 IA24 B6
2A34 G5 IA25 B9
2A35 E7 IA26 C6
2A36 F7 IA27 B9
2A37 D8 IA29 F10
2A38 E8 IA30 F10
2A40 F3 IA31 F10
2A41 G9 IA33 F4
2A45 E7 IA34 D8
2A46 A6 IA35 D7
2A47 B6 IA36 E7
2A50 B1 IA37 E8
2A51 B1 IA38 F7
2A52 B2 IA39 F7
2A53 B2 IA40 A6
2A54 B2 IA41 A6
3A01 B6
3A02 B8
3A03 D2
3A04 D3
3A05 D9
3A06 D2
3A07 E2
3A08 E3
3A09 D7
3A11 E2
3A12 E6
3A13 E3
3A14 E9
3A15 E6
3A17 E7
3A19 F3
3A26 F3
3A27 F9
3A28 F9
3A29 E10
3A30 F10
3A31 F11
4A01 A6
4A02 A6
5A03 D7
5A04 E7
5A05 C6
5A06 C8
5A07 A6
5A08 B2
5A09 B2
7A01 D4
7A05 E11
7A06 F10
7A07 F10
FA01 C6
FA02 C8
FA04 E6
FA05 D2
FA06 E2
FA07 D11
FA08 D11
FA09 E2
FA10 D11

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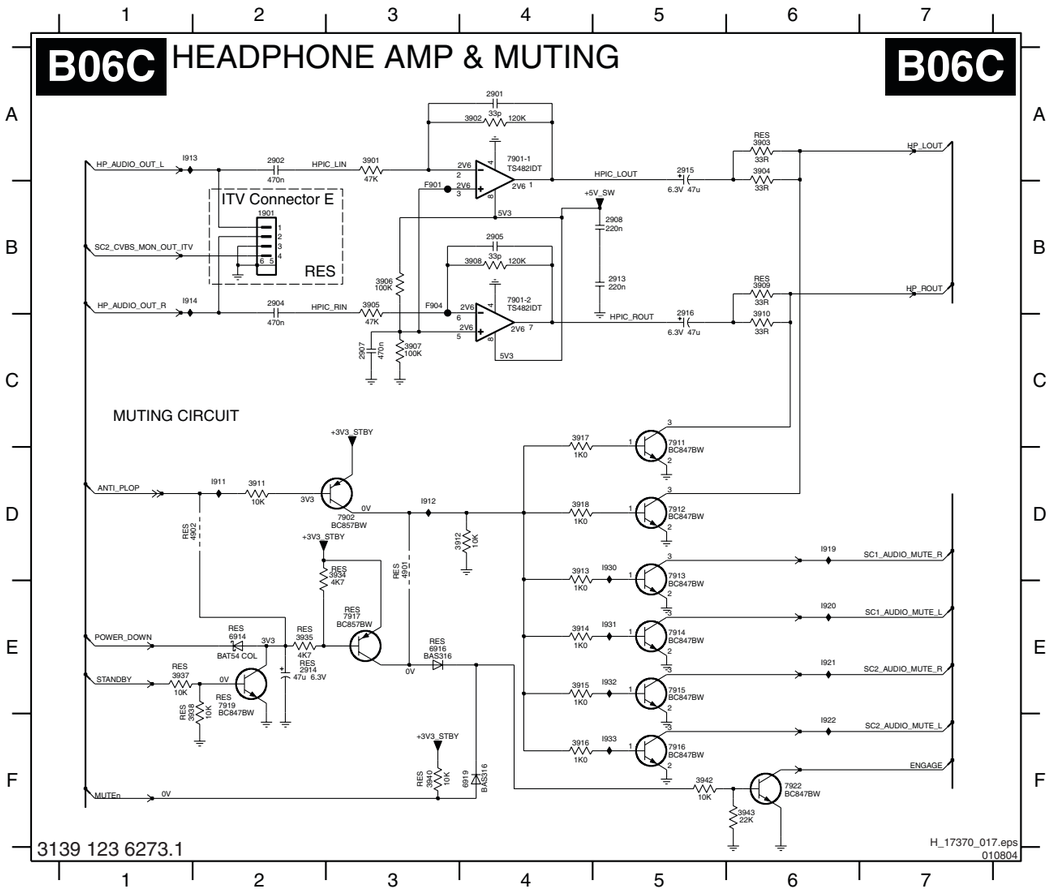
SSB: Headphone Ampl. & Muting



1901 B2
2901 A4
2902 A2
2904 B2
2905 B4
2907 C3
2908 B5
2913 B5
2914 E2
2915 A5
2916 C5
3901 A3
3902 A4
3903 A6
3904 A6
3905 B3
3906 B3
3907 C3
3908 B4
3909 B6
3910 C6
3911 D2
3912 D4
3913 D4
3914 E4
3915 E4
3916 F4
3917 C4
3918 D4
3934 D3
3935 E2
3937 E1
3938 E2
3940 F3
3942 F5
3943 F6
4901 D3
4902 D2
6914 E2
6916 E3
6919 F4
7901-1 A4
7901-2 B4
7902 D3
7911 C5
7912 D5
7913 D5
7914 E5
7915 E5
7916 F5
7917 E3
7919 E2
7922 F6
F901 B3
F904 B3
I911 D2
I912 D3
I913 A1
I914 B1
I919 D6
I920 E6
I921 E6
I922 F6
I930 D5
I931 E5
I932 E5
I933 F5

Personal Notes:

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SSB: YPBPR & SVHS

B07A YPBPR & SVHS

B07A

PEND NEW 12NC

1615-2 2
PR 3
R 1
MSD-244V-131 NIDIP
RED_RED_RIGHT

F605
1606
RES 6610
PESD5V0S1BA
RES 2602
3601 75R
3617 33R
HD_PR_IN_ITV
HD_PR_IN

1615-1 5 F614
L 6
PB 4
MSD-244V-131 NIDIP
BLUE_WHITE_LEFT

F607
1610
RES 6612
PESD5V0S1BA
RES 2606
3605 75R
3619 33R
HD_PB_IN_ITV
HD_PB_IN

F608
1611
RES 6613
PESD5V0S1BA
3607 150R
I623
2608 3n3
3608 33K
2607 220n
I610
COMP_AUDIO_IN_L

F609
1613
RES 6614
PESD5V0S1BA
3611 150R
I627
2612 3n3
3612 33K
2610 220n
I611
COMP_AUDIO_IN_R

RES
ITV-Connector D

1619
1 HD_PR_IN_ITV
2 HD_Y_IN_ITV
3 HD_PB_IN_ITV
4 F612
5 VGA_H
6 VGA_V
7 8 F613
BM06B-SRSS-TBT

PEND NEW 12NC
SVHS

1601-C
MSP-801V1-07-01-B NI FE
GND 8

1601-A
MSP-801V1-07-01-B NI FE
1
3
4
2
5
F602
F615
1609
RES 6604
PESD5V0S1BA

F601
RES 2600
3604 75R
3600 100R
I615
C_IN

1609
75R
1608
RES 6606
PESD5V0S1BA
RES 2609
3602 100R
I631
Y_IN

Y
1601-B 6
7
MSP-801V1-07-01-B NI FE
F604
3603 75R
1607
RES 6611
PESD5V0S1BA
RES 2603
3618 33R
HD_Y_IN
HD_Y_IN_ITV

FRONT_Y_CVBS_IN_T
2613 100n
5601 33R
+5V_SW
2614 100n
RES 4601
7601
74LVC1G3157GW
VCC
IN
COM
NC
GND
FRONT_CVBS_SVHS_Y_IN
2615 100n
Y_IN
+5V_SW
3620 4K7
RES 5602 33R
+5V_SW
RES 2616 100n
FRONT_CVBS_SVHS_SEL
7603
PDTC114ET
RES 7602
74LVC1G3157GW
FRONT_C_IN_T
SVHS_C_IN
4602
C_IN
RES 4603

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1601-A B6
1601-B C5
1601-C A5
1606 B1
1607 D6
1608 C6
1609 B6
1610 C1
1611 C1
1613 D1
1615-1 B1
1615-2 A1
1619 F1
2600 A7
2602 A2
2603 D7
2606 B2
2607 C3
2608 C3
2609 C7
2610 D3
2612 D3
2613 D6
2614 D7
2615 E7
2616 E7
3600 A7
3601 A2
3602 C7
3603 D6
3604 A7
3605 C2
3607 C2
3608 C3
3609 C6
3611 D2
3612 D3
3617 A3
3618 C7
3619 B3
3620 E6
4601 E5
4602 F5
4603 F7
5601 D7
5602 E7
6604 B7
6606 C7
6610 B2
6611 D7
6612 C2
6613 C2
6614 D2
7601 D7
7602 F7
7603 F6
F601 A7
F602 B6
F604 C6
F605 A1
F607 B1
F608 C1
F609 D1
F612 F1
F613 F1
F614 B1
F615 B6
I610 C4
I611 D4
I615 A8
I623 C2
I627 D2
I631 C8

SSB: I/O SCART 1&2

B07B IO - SCART 1 & 2

B07B

RES
ITV-Connector B

1526
1 SC1_B_IN
2 SC1_G_IN
3 SC1_R_IN
4 SC1_FBL_IN
5
6 SC1_AUDIO_OUT_L
7 SC1_AUDIO_OUT_R
8
9
10

RES
ITV-Connector C

1525
1 SC2_AUDIO_IN_R
2 SC2_AUDIO_IN_L
3
4 SC2_Y_CVBS_IN_ITV
5 SC2_C_IN_ITV
6
7
8

SCART 1

1504
Audio-R_out 1 F511
Audio-R_in 2 F513
Audio-L_out 3 F515
4 F517
5
Audio-L_in 6 F519
RGB-B_in 7 F520
Function_Sw 8 F521
9
10 1509
RGB-G_in 11 F522
12 1512
13
14
RGB-R_in 15 F531
RGB-BL_in 16 F524
17 F525
18
Terr_CVBS_out 19 F526
Video_in 20 F528
21
PPTV/55

SC1_AUDIO_MUTE_R
SC1_AUDIO_OUT_R
SC1_AUDIO_OUT_L
SC1_AUDIO_MUTE_L
SC1_AUDIO_IN_R
SC1_AUDIO_IN_L
SC1_B_IN
SC1_STATUS
SC1_G_IN
SC1_R_IN
SC1_FBL_IN
SC1_CVBS_IN

SCART 2

1506
Audio-R_out 1 F510
Audio-R_in 2 F512
Audio-L_out 3 F514
4 F516
5
Audio-L_in 6 F518
7
Function_Sw 8 F532
9
10 1510
11
12 1513
13
14
RGB-R_out/YC-C_in 15 F523
16
17
18
CVBS_out 19 F527
Video/YC-Y_in 20 F529
21
PPTV/55

SC2_AUDIO_MUTE_R
SC2_AUDIO_OUT_R
SC2_AUDIO_OUT_L
SC2_AUDIO_MUTE_L
SC2_AUDIO_IN_R
SC2_AUDIO_IN_L
SC2_STATUS
SC2_C_IN_ITV
SC2_C_IN
SC2_CVBS_MON_OUT
SC2_CVBS_MON_OUT_ITV
SC2_Y_CVBS_IN_ITV
SC2_Y_CVBS_IN
SC1_RF_OUT_CVBS
SC1_CVBS_RF_OUT

+5V_SW
5V2
3V7
3V

1500 C9 6523 C10
1501 C9 6524 E10
1502 C3 6525 G9
1503 D9 7500 G10
1504 C2 7502 G11
1505 C3 7503 I11
1506 D8 7504 I11
1507 D3 F510 D9
1508 E9 F511 C2
1509 D2 F512 D9
1510 E9 F513 C2
1511 D3 F514 D9
1512 E2 F515 C2
1513 E9 F516 D9
1514 E9 F517 C2
1515 F9 F518 D9
1516 E3 F519 D2
1517 E3 F520 D2
1518 G9 F521 D2
1519 F3 F522 D2
1520 G3 F523 F9
1521 H9 F524 E2
1522 G3 F525 E2
1523 H3 F526 F2
1524 H3 F527 F9
1525 A2 F528 F2
1526 A1 F529 F9
2502 C10 F530 H5
2506 C10 F531 E2
2508 B4 F532 E9
2509 D12 F534 B4
2512 D10 F535 C4
2514 C4 F536 C4
2515 C5 F537 D4
2517 D4 F538 E5
2518 D12 F539 E5
2520 E10 F540 F5
2521 D5 F541 F5
2523 D4 F542 G4
2524 F10 F543 C11
2525 G10 F544 D11
2526 G10 I510 B11
2527 F4 I512 C11
2528 E4 I517 D12
2529 F4 I520 D12
2530 H10 I528 G12
2531 G4 I530 G10
2533 I11 I533 H12
2534 I10 I540 C5
2535 H3 I541 D5
2536 G10 I543 G11
2538 H3 I544 G12
3500 B10 I545 E11
3502 C10 I548 I11
3503 B4 I549 I12
3506 D10 I550 G4
3507 C4 I551 G10
3508 D11 I552 G11
3510 C4 I553 I11
3511 D4 I554 I12
3512 D10 I556 H12
3513 E11 I557 F12
3514 D4 I558 I12
3515 D4
3516 E4
3517 E4
3518 E4
3519 G11
3520 E4
3521 G12
3522 G10
3523 F4
3524 I11
3525 G10
3526 F4
3528 F4
3529 H10
3530 G4
3531 H10
3532 G4
3533 G4
3535 G3
3536 H4
3537 I12
3538 G11
3540 I12
3545 H4
3546 H4
3550 E10
3551 E10
3552 F11
3553 F11
3554 I12
3555 H12
4502 G11
4504 I12
6501 D10
6504 D3
6505 E10
6507 D3
6509 F10
6510 H9
6511 H3
6512 G5
6513 G5
6514 E3
6515 F3
6516 G3
6517 H3
6518 C3
6519 C3
6520 E3
6521 G3
6522 C10

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SSB: HDMI Main

B07C HDMI MAIN

Pend New 12NC
TO / FROM SIDE I/O

1N01
FI-RE21S-HF-R1500

7N01-1
SII9125CTU
MAIN

7N01-2
SII9125CTU

7N01-3
SII9125CTU

7N07
UDA1334ATS

3139 123 6273.1

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1N01 C1
1N02 G5
2N03 E2
2N04 E2
2N05 F1
2N06 F2
2N07 G1
2N08 G1
2N09 F2
2N10 F2
2N11 E3
2N12 E3
2N13 F4
2N14 G4
2N15 A9
2N16 A9
2N17 A10
2N18 A9
2N20 A10
2N25 A9
2N26 A10
2N27 A10
2N28 A9
2N29 A10
2N30 A11
2N31 A9
2N32 A10
2N33 B10
2N34 C9
2N35 C10
2N36 C10
2N37 C11
2N38 C9
2N39 C9
2N40 C11
2N41 D10
2N42 D9
2N43 D10
2N44 D10
2N45 D9
2N46 D10
2N47 D11
2N48 D9
2N49 D10
2N50 D10
2N51 E9
2N52 E10
2N53 E10
2N54 E9
2N55 E10
2N56 E11
2N57 E10
2N58 E10
2N59 E10
2N60 F9
2N61 A9
2N62 A10
2N63 E9
2N64 F10
2N66 B9
2N67 D1
3N01 B7
3N02-1 B7
3N02-2 B7
3N02-3 B7
3N02-4 B7
3N03 B7
3N04-1 C7
3N04-2 C7
3N04-3 C7
3N04-4 C7
3N05 C7
3N06-1 C7
3N06-2 C7
3N06-3 C7
3N06-4 C7
3N07 C7
3N08-1 B7
3N08-2 B7
3N08-3 B7
3N08-4 C7
3N09 D7
3N10 D7
3N11-1 D7
3N11-2 D7
3N11-3 D7
3N11-4 D7
3N12-1 D7
3N12-2 D7
3N12-3 D7
3N12-4 D7
3N13 D7
3N14 E7
3N15 E7
3N16 E7
3N18-1 D4
3N18-2 E4
3N18-3 E4
3N18-4 E4
3N19 F4
3N20 F4
3N21 F4
3N22 G5
3N23 E3
3N24 G4
3N25 G1
3N26 G1
3N27 E2
3N33 B7
3N34 B5
3N35 A3
3N36 A3
3N37 B3
3N38 B3
3N39 B5
3N40 B5
4N01 D4
4N02 D4
4N03 A4
4N04 A4
4N05 B4
4N06 B4
4N07 B4
4N08 B4
5N01 A11
5N02 A11
5N03 A11
5N04 B11
5N05 C11
5N06 C11
5N07 D11
5N08 D11
5N09 E11
7N01-1 A6
7N01-2 B8
7N01-3 F7
7N07 F3
FN01 A4
FN02 A4
FN03 B4
FN04 B4
IN06 A11
IN07 A11
IN09 B11
IN10 B11
IN11 C11
IN12 C11
IN13 D11
IN14 D11
IN15 E11
IN16 F2
IN17 F2
IN18 F1
IN19 F2
IN20 G2
IN21 G1

SSB: HDMI Switch

B07D HDMI SWITCH

B07D

HDMI 1

HDMI 2

HDMI 3

HDMI SWITCH

1M01 10029449-002

1M02 10029449-002

1M03 10029449-002

7M07 SII9185CTU

7M01 LF18CD

7M02 BC847BW

7M04 BC847BW

7M09 BC847BW

RES_4M01

HDMI-SIDE_CEC_A

+3V3_ANA-MUX

+1V8_ANA-MUX

+1V8_DIG-MUX

+5V_SW

+5VHDMI_A

+5VHDMI_B

+5VHDMI_C

+5VHDMI-MUX_TPWR

+3V3_STBY

+1V8_STBY

+1V8_SW

+3V3_SW

+1V8_ANA-MUX

+1V8_DIG-MUX

+3V3_ANA-MUX

HDMI_INT_MUX

IIC_SCL_up

IIC_SDA_up

HDMI_RST_MUX

HPD_RESET_A

HPD_RESET_B

HPD_RESET_C

HDMI_HOTPLUG_RESET

HDMI-MUX_TSCL

HDMI-MUX_TSDA

HDMI-MUX_TXC+

HDMI-MUX_TXC-

HDMI-MUX_TX0+

HDMI-MUX_TX0-

HDMI-MUX_TX1+

HDMI-MUX_TX1-

HDMI-MUX_TX2+

HDMI-MUX_TX2-

CEC_D

DDC_SCLA

DDC_SCLB

DDC_SCLC

DDC_SDAA

DDC_SDAB

DDC_SDAC

RX2+A

RX2-A

RX1+A

RX1-A

RX0+A

RXC+A

RXC-A

RX2+B

RX2-B

RX1+B

RX1-B

RX0+B

RXC+B

RXC-B

RX2+C

RX2-C

RX1+C

RX1-C

RX0+C

RXC+C

RXC-C

R0X

R1X

R2X

TX

AVCC33

AVCC18

DVCC18

AGND

DGND

EXT_SWING

RESET

LSDA

EPSEL0

EPSEL1

LSCL

I2CADDR

TPWR

I2CSEL

INT

RSVDL

CEC

DSCL

DSDA

RPWR

HPD

HPDIN

TSCL

TSDA

DDC_RESET

HPD_RESET_A

HPD_RESET_B

HPD_RESET_C

FM01 FM02 FM03 FM05 FM06 FM07 FM08 FM10 FM11 FM12 FM13 FM15 FM16 FM17 FM18 FM19

IM01 IM02 IM03 IM04 IM07 IM08 IM09 IM10 IM11 IM12 IM13 IM14 IM15

3139 123 6273.1

H_17370_021.eps 010804

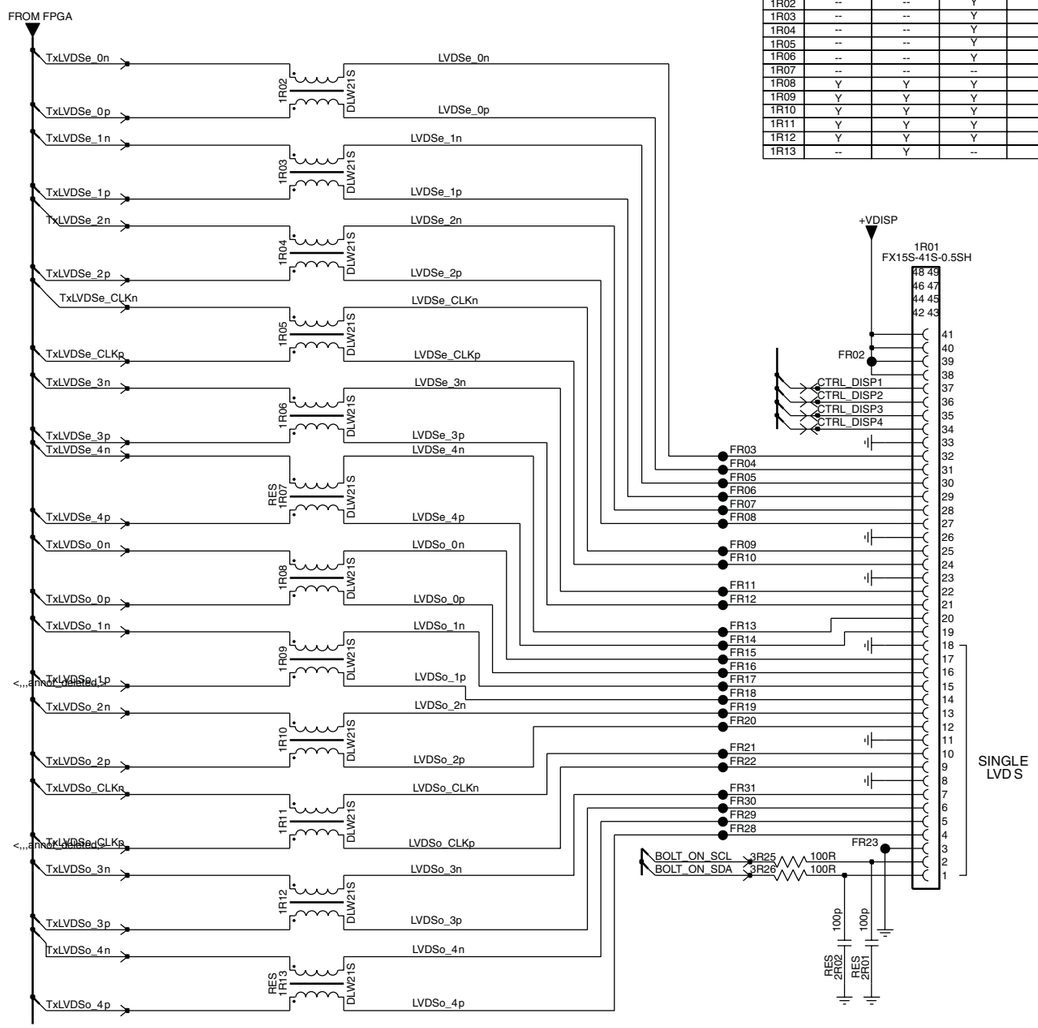
1M01 A1 IM13 C7
1M02 D1 IM14 E7
1M03 F1 IM15 E7
2M01 B10
2M02 B10
2M03 B10
2M04 B10
2M05 B10
2M06 B10
2M07 D10
2M08 D10
2M09 D10
2M10 D10
2M11 A10
2M12 A9
2M15 C10
2M16 C10
2M17 C10
2M19 B11
2M20 B11
2M21 B11
3M03 C2
3M04 C3
3M07 F2
3M08 F3
3M09 D4
3M10 F4
3M11 G4
3M13 H2
3M14 E7
3M15 E7
3M18 B7
3M20 B5
3M21 B5
3M31 H3
3M32 C7
3M33 B5
3M34 C7
3M35 B2
3M36 B2
3M37 E2
3M38 E2
3M39 G2
3M40 G2
4M01 A3
4M02 B9
4M03 B9
4M04 B9
4M05 C9
4M07 E7
4M08 D7
4M09 D7
4M10 C9
4M11 C9
4M12 C7
5M01 C9
5M02 B9
5M03 B9
6M01 E7
6M02 D7
6M03 D7
6M04 E7
6M06 D7
6M07 D7
6M08 C7
7M01 A9
7M02 C2
7M04 F2
7M07 C5
7M09 H2
FM01 B2
FM02 B2
FM03 C2
FM05 A1
FM06 D1
FM07 E2
FM08 E2
FM10 E2
FM11 G2
FM12 G2
FM13 G2
FM15 F1
FM16 A10
FM17 B11
FM18 B11
FM19 C11
IM01 C3
IM02 C2
IM03 E3
IM04 F2
IM07 C2
IM08 E2
IM09 G2
IM10 H3
IM11 H2
IM12 C7

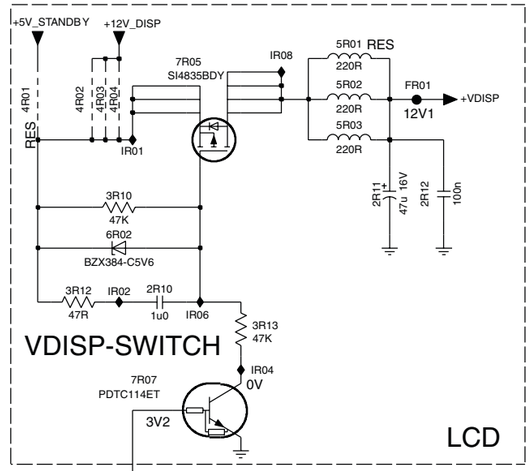
SSB: LVDS Connector

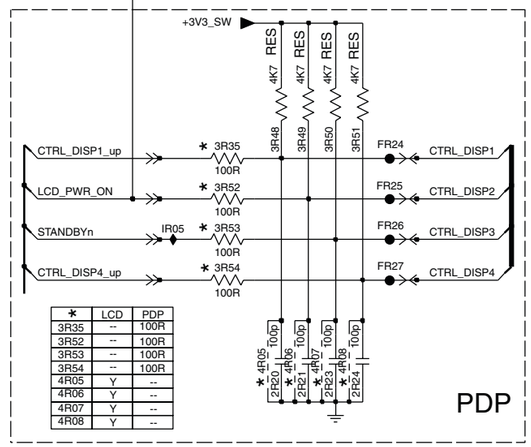
B07E LVDS CONNECTOR

*	8 Bit Single LVDS	10 Bit Single LVDS	8 Bit Dual LVDS	10 Bit Dual LVDS
1R02	--	--	Y	Y
1R03	--	--	Y	Y
1R04	--	--	Y	Y
1R05	--	--	Y	Y
1R06	--	--	Y	Y
1R07	--	--	--	Y
1R08	Y	Y	Y	Y
1R09	Y	Y	Y	Y
1R10	Y	Y	Y	Y
1R11	Y	Y	Y	Y
1R12	Y	Y	Y	Y
1R13	--	Y	--	Y

	LGE	SDI	FHP	1080p
CTRL-DISP1		RESET Semi standby : H Normal and off : L		
CTRL-DISP2(LCD_PWR_on)	DISPEN On time : H Off time : Don't care		CPU-GO On time : H Off time : Don't care	
CTRL-DISP3(Rev_Standby)			PDWIN On time : H Off time : Don't care	
CTRL-DISP4			PDP-GO On time : H Semi standby : L Off time : Don't care	MAIN_RESET







*	LCD	PDP
3R35	--	100R
3R52	--	100R
3R53	--	100R
3R54	--	100R
4R05	Y	--
4R06	Y	--
4R07	Y	--
4R08	Y	--

1R01 C5 IR06 D9
1R02 B2 IR08 C9
1R03 B2
1R04 C2
1R05 C2
1R06 D2
1R07 D2
1R08 D2
1R09 E2
1R10 E2
1R11 F2
1R12 F2
1R13 G2
2R01 F5
2R02 F5
2R10 D8
2R11 C10
2R12 C10
2R20 G9
2R21 G9
2R23 G9
2R24 G9
3R10 C8
3R12 D8
3R13 D9
3R25 F4
3R26 F4
3R35 F9
3R48 F9
3R49 F9
3R50 F9
3R51 F9
3R52 F9
3R53 F9
3R54 F9
4R01 C8
4R02 C8
4R03 C8
4R04 C8
4R05 G9
4R06 G9
4R07 G9
4R08 G9
5R01 C9
5R02 C9
5R03 C9
6R02 D8
7R05 C9
7R07 D8
FR01 C10
FR02 C5
FR03 D4
FR04 D4
FR05 D4
FR06 D4
FR07 D4
FR08 D4
FR09 D4
FR10 D4
FR11 D4
FR12 D4
FR13 E4
FR14 E4
FR15 E4
FR16 E4
FR17 E4
FR18 E4
FR19 E4
FR20 E4
FR21 E4
FR22 E4
FR23 F5
FR24 F10
FR25 F10
FR26 F10
FR27 F10
FR28 F4
FR29 F4
FR30 F4
FR31 E4
IR01 C8
IR02 D8
IR04 D9
IR05 F8

3139 123 6273.1

H_17370_022.eps
010804

SSB: SRP List

Netname	Schematic
+12V_DISP	B01A (1x)
+12V_DISP	B01B (2x)
+12V_DISP	B02 (1x)
+12V_DISP	B04 (1x)
+12V_DISP	B06A (1x)
+12V_DISP	B07E (1x)
+1V2_ADC	B05C (5x)
+1V2_CORE	B05C (2x)
+1V2_PLL	B05C (4x)
+1V2_SW	B01B (3x)
+1V2_SW	B03C (2x)
+1V2_SW	B05C (1x)
+1V2_SW	B05E (1x)
+1V2-FPGA	B05E (2x)
+1V2-PLL	B05E (2x)
+1V8_ANA-MUX	B07D (3x)
+1V8_DIG-MUX	B07D (2x)
+1V8_STBY	B07D (2x)
+1V8_SW	B01B (1x)
+1V8_SW	B03A (2x)
+1V8_SW	B03E (1x)
+1V8_SW	B04 (1x)
+1V8_SW	B07C (4x)
+1V8_SW	B07D (1x)
+1V8SWA	B07C (1x)
+1V8SWB	B07C (1x)
+1V8SWC	B07C (1x)
+1V8SWD	B07C (1x)
+2V5_SW	B01B (3x)
+2V5_SW	B05B (1x)
+2V5_SW	B05E (1x)
+2V5_VDDMQ	B05B (5x)
+2V5_VDDMQ	B05C (2x)
+2V5in-FPGA	B05E (2x)
+2V5out-FPGA	B05E (2x)
+3V3	B03A (3x)
+3V3	B03B (3x)
+3V3	B03C (7x)
+3V3	B03D (2x)
+3V3	B03E (1x)
+3V3_ANA-MUX	B07C (2x)
+3V3_ANA-MUX	B07D (4x)
+3V3_BUF	B03B (4x)
+3V3_CORE	B03B (2x)
+3V3_FPGA	B05D (8x)
+3V3_FPGA	B05E (4x)
+3V3_NOR48	B03D (4x)
+3V3_STBY	B01A (1x)
+3V3_STBY	B04 (31x)
+3V3_STBY	B06C (3x)
+3V3_STBY	B07D (2x)
+3V3_STV	B03B (10x)
+3V3_SW	B01A (1x)
+3V3_SW	B02 (2x)
+3V3_SW	B03E (2x)
+3V3_SW	B04 (9x)
+3V3_SW	B05A (8x)
+3V3_SW	B05C (9x)
+3V3_SW	B05E (1x)
+3V3_SW	B07C (8x)
+3V3_SW	B07D (1x)
+3V3_SW	B07E (1x)
+3V3_VDDP	B03C (3x)
+3V3clean	B03C (1x)
+3V3clean	B03E (1x)
+3V3FE	B03A (5x)
+3V3SWA	B07C (1x)
+3V3SWB	B07C (1x)
+3V3SWC	B07C (1x)
+3V3SWD	B07C (1x)
+3V3SWE	B07C (1x)
+5V_AUD	B06A (3x)
+5V_D	B06A (2x)
+5V_IF	B02 (7x)
+5V_STANDBY	B01A (4x)
+5V_STANDBY	B04 (4x)
+5V_STANDBY	B05A (1x)
+5V_STANDBY	B07E (1x)
+5V_SW	B01A (3x)
+5V_SW	B02 (2x)
+5V_SW	B03A (9x)
+5V_SW	B03B (2x)
+5V_SW	B03D (3x)
+5V_SW	B04 (2x)
+5V_SW	B05A (2x)
+5V_SW	B06A (1x)
+5V_SW	B06C (1x)
+5V_SW	B07A (3x)
+5V_SW	B07B (2x)
+5V_SW	B07D (4x)
+5VHDMI_A	B07D (3x)
+5VHDMI_B	B07D (3x)
+5VHDMI_C	B07D (3x)
+5VHDMI-MUX_TPWR	B07C (1x)
+5VHDMI-MUX_TPWR	B07D (1x)
+5VHDMI-SIDE_TPWR	B07C (2x)
+5VS	B02 (4x)
+8V	B06A (2x)
+AUDIO_POWER	B06B (3x)
+AUDIO_POWER_+12V_DISP	B06A (1x)
+AUDIO_POWER_+12V_DISP	B06B (1x)
+VDISP	B07E (2x)
+VTUN	B01A (1x)
+VTUN	B02 (1x)
10046_TDO	B03A (1x)
10046_TDO	B03C (1x)
4MHZ_CLK	B02 (1x)
4MHZ_CLK	B03A (1x)
4MHz_MOJO	B03A (1x)
4MHz_MOJO	B03C (1x)
A(0)	B04 (2x)
A(0)	B05A (1x)
A(0:7)	B04 (1x)
A(1)	B04 (2x)
A(1)	B05A (1x)
A(1:7)	B04 (1x)
A(10)	B04 (2x)
A(11)	B04 (2x)
A(12)	B04 (2x)
A(13)	B04 (2x)
A(14)	B04 (2x)
A(15)	B04 (2x)
A(16)	B04 (2x)
A(17)	B04 (2x)
A(18)	B04 (2x)
A(19)	B04 (2x)
A(2)	B04 (2x)
A(2)	B05A (1x)
A(3)	B04 (2x)
A(3)	B05A (1x)
A(4)	B04 (2x)
A(4)	B05A (1x)
A(5)	B04 (2x)
A(5)	B05A (1x)
A(6)	B04 (2x)
A(6)	B05A (1x)
A(7)	B04 (2x)
A(7)	B05A (1x)
A(8)	B04 (2x)
A(8:19)	B04 (2x)
A(9)	B04 (2x)
A_MICLK	B03B (2x)
A_MISTRT	B03B (2x)
A_MIVAL	B03B (2x)
A_MOCLK	B03B (2x)
A_MOSTRT	B03B (2x)
A_MOVAL	B03B (2x)
AD(0)	B04 (2x)
AD(0)	B05A (1x)
AD(0:7)	B04 (2x)
AD(1)	B04 (2x)
AD(1)	B05A (1x)
AD(2)	B04 (2x)
AD(2)	B05A (1x)
AD(3)	B04 (2x)
AD(3)	B05A (1x)
AD(4)	B04 (2x)
AD(4)	B05A (1x)
AD(5)	B04 (2x)
AD(5)	B05A (1x)
AD(6)	B04 (2x)
AD(6)	B05A (1x)
AD(7)	B04 (2x)
AD(7)	B05A (1x)
ALE_EMU	B04 (1x)
ALE_EMU	B05A (1x)
ambi_pwm(0)	B05D (1x)
ambi_pwm(0)	B05E (1x)
ambi_pwm(1)	B05D (1x)
ambi_pwm(1)	B05E (1x)
ambi_pwm(2)	B05D (1x)
ambi_pwm(2)	B05E (1x)
ambi_pwm(3)	B05D (1x)
ambi_pwm(3)	B05E (1x)
ambi_pwm(4)	B05D (1x)
ambi_pwm(4)	B05E (1x)
ambi_pwm(5)	B05D (1x)
ambi_pwm(5)	B05E (1x)
AMBI_SCL	B05D (1x)
AMBI_SCL	B05E (1x)
AMBI_SDA	B05D (1x)
AMBI_SDA	B05E (1x)
ANTI_PLOP	B04 (1x)
ANTI_PLOP	B06C (1x)
ASDO	B05D (2x)
ASDO	B05E (1x)
AUDIO_LS_L	B06A (1x)
AUDIO_LS_L	B06B (1x)
AUDIO_LS_R	B06A (1x)
AUDIO_LS_R	B06B (1x)
-AUDIO_POWER	B06B (2x)
BACKLIGHT_BOOST	B01A (1x)
BACKLIGHT_BOOST	B04 (1x)
BL_ADJUST	B01A (1x)
BL_ADJUST	B05A (1x)
BL_ON_OFF	B01A (1x)
BL_ON_OFF	B04 (1x)
BOLT_ON_SCL	B04 (2x)
BOLT_ON_SCL	B07E (1x)
BOLT_ON_SDA	B04 (2x)
BOLT_ON_SDA	B07E (1x)
C_IN	B07A (2x)
CE	B04 (1x)
CE	B05E (1x)
CEC_D	B04 (1x)
CEC_D	B07D (1x)
CLK_OSC1	B05D (1x)
CLK_OSC1	B05E (1x)
COMP_AUDIO_IN_L	B06A (1x)
COMP_AUDIO_IN_L	B07A (1x)
COMP_AUDIO_IN_R	B06A (1x)
COMP_AUDIO_IN_R	B07A (1x)
CPU_RST	B04 (1x)
CS	B04 (1x)
CS	B05A (1x)
CTRL_DISP1	B07E (2x)
CTRL_DISP1_up	B04 (1x)
CTRL_DISP1_up	B07E (1x)
CTRL_DISP2	B07E (2x)
CTRL_DISP3	B07E (2x)
CTRL_DISP4	B07E (2x)
CTRL_DISP4_up	B04 (1x)
CTRL_DISP4_up	B07E (1x)
CVBS_RF	B02 (1x)
CVBS_RF	B05A (1x)
DATA0	B05D (2x)
DATA0	B05E (1x)
DC_PROT	B04 (1x)
DC_PROT	B06B (1x)
DCLK	B05D (2x)
DCLK	B05E (1x)
DDC_RESET	B04 (2x)
DDC_RESET	B07D (3x)
DDC_SCLA	B07D (2x)
DDC_SCLB	B07D (2x)
DDC_SCLC	B07D (2x)
DDC_SDAA	B07D (2x)
DDC_SDAB	B07D (2x)
DDC_SDAC	B07D (2x)
DDR_VREF	B05B (3x)
DDR_VREF	B05C (1x)
DP_HS	B05C (2x)
DVB_SW	B02 (1x)
DVB_SW	B04 (1x)
E_PAGE	B04 (2x)
ENGAGE	B06B (1x)
ENGAGE	B06C (1x)
FE_LOCK	B03A (1x)
FE_LOCK	B03C (1x)
FPGA_BL_BOOST	B05E (1x)
FPGA_BL_DIMMING	B05A (1x)
FPGA_BL_DIMMING	B05E (1x)
FRONT_C_IN_T	B04 (1x)
FRONT_C_IN_T	B07A (1x)
FRONT_CVBS_SVHS_SEL	B04 (1x)
FRONT_CVBS_SVHS_SEL	B07A (1x)
FRONT_CVBS_SVHS_Y_IN	B05A (1x)
FRONT_CVBS_SVHS_Y_IN	B07A (1x)
FRONT_Y_CVBS_IN_T	B04 (1x)
FRONT_Y_CVBS_IN_T	B07A (1x)
GNDDC	B01A (1x)
GNDDC1V2	B01B (6x)
GNDDC2	B01B (13x)
GNDDC2V5	B01B (6x)
GNDSND	B06B (25x)
GNDTUN	B01A (1x)
HD_PB_IN	B05A (1x)
HD_PB_IN	B07A (1x)
HD_PB_IN_ITV	B07A (2x)
HD_PR_IN	B05A (1x)
HD_PR_IN	B07A (1x)
HD_PR_IN_ITV	B07A (2x)
HD_Y_IN	B05A (1x)
HD_Y_IN	B07A (1x)
HD_Y_IN_ITV	B07A (2x)
HDMI_AUDIO_IN_L	B06A (1x)
HDMI_AUDIO_IN_L	B07C (1x)
HDMI_AUDIO_IN_R	B06A (1x)
HDMI_AUDIO_IN_R	B07C (1x)
HDMI_Cb(0)	B05C (1x)
HDMI_Cb(0)	B07C (1x)
HDMI_Cb(1)	B05C (1x)
HDMI_Cb(1)	B07C (1x)
HDMI_Cb(2)	B05C (1x)
HDMI_Cb(2)	B07C (1x)
HDMI_Cb(3)	B05C (1x)
HDMI_Cb(3)	B07C (1x)
HDMI_Cb(4)	B05C (1x)
HDMI_Cb(4)	B07C (1x)
HDMI_Cb(5)	B05C (1x)
HDMI_Cb(5)	B07C (1x)
HDMI_Cb(6)	B05C (1x)
HDMI_Cb(6)	B07C (1x)
HDMI_Cb(7)	B05C (1x)
HDMI_Cb(7)	B07C (1x)
HDMI_Cb(8)	B05C (1x)
HDMI_Cb(8)	B07C (1x)
HDMI_Cb(9)	B05C (1x)
HDMI_Cb(9)	B07C (1x)
HDMI_Cr(0)	B05C (1x)
HDMI_Cr(0)	B07C (1x)
HDMI_Cr(1)	B05C (1x)
HDMI_Cr(1)	B07C (1x)
HDMI_Cr(2)	B05C (1x)
HDMI_Cr(2)	B07C (1x)
HDMI_Cr(3)	B05C (1x)
HDMI_Cr(3)	B07C (1x)
HDMI_Cr(4)	B05C (1x)
HDMI_Cr(4)	B07C (1x)
HDMI_Cr(5)	B05C (1x)
HDMI_Cr(5)	B07C (1x)
HDMI_Cr(6)	B05C (1x)
HDMI_Cr(6)	B07C (1x)
HDMI_Cr(7)	B05C (1x)
HDMI_Cr(7)	B07C (1x)
HDMI_Cr(8)	B05C (1x)
HDMI_Cr(8)	B07C (1x)
HDMI_Cr(9)	B05C (1x)
HDMI_Cr(9)	B07C (1x)
HDMI_DE	B05C (1x)
HDMI_DE	B07C (1x)
HDMI_H	B05C (1x)
HDMI_H	B07C (1x)
HDMI_HOTPLUG_RESET	B04 (1x)
HDMI_HOTPLUG_RESET	B07C (1x)
HDMI_HOTPLUG_RESET	B07D (1x)
HDMI_INT_MAIN	B04 (1x)
HDMI_INT_MAIN	B07C (1x)
HDMI_INT_MUX	B04 (1x)
HDMI_INT_MUX	B07D (1x)
HDMI_INT_SIDE	B04 (2x)
HDMI_RST_MUX	B04 (1x)
HDMI_RST_MUX	B07D (1x)
HDMI_RST_RX_BUF	B04 (2x)
HDMI_RST_RX_BUF	B07C (1x)
HDMI_SCK	B06A (1x)
HDMI_SCK	B07C (1x)
HDMI_SD	B06A (1x)
HDMI_SD	B07C (1x)
HDMI_V	B05C (1x)
HDMI_V	B07C (1x)
HDMI_VCLK	B05C (1x)
HDMI_VCLK	B07C (1x)
HDMI_WS	B06A (1x)
HDMI_WS	B07C (1x)
HDMI_Y(0)	B05C (1x)
HDMI_Y(0)	B07C (1x)
HDMI_Y(1)	B05C (1x)
HDMI_Y(1)	B07C (1x)
HDMI_Y(2)	B05C (1x)
HDMI_Y(2)	B07C (1x)
HDMI_Y(3)	B05C (1x)
HDMI_Y(3)	B07C (1x)
HDMI_Y(4)	B05C (1x)
HDMI_Y(4)	B07C (1x)
HDMI_Y(5)	B05C (1x)
HDMI_Y(5)	B07C (1x)
HDMI_Y(6)	B05C (1x)
HDMI_Y(6)	B07C (1x)
HDMI_Y(7)	B05C (1x)
HDMI_Y(7)	B07C (1x)
HDMI_Y(8)	B05C (1x)
HDMI_Y(8)	B07C (1x)
HDMI_Y(9)	B05C (1x)
HDMI_Y(9)	B07C (1x)
HDMI-MUX_TSCL	B07C (1x)
HDMI-MUX_TSCL	B07D (1x)
HDMI-MUX_TSDA	B07C (1x)
HDMI-MUX_TSDA	B07D (1x)
HDMI-MUX_TX0-	B07C (1x)
HDMI-MUX_TX0-	B07D (1x)
HDMI-MUX_TX0+	B07C (1x)
HDMI-MUX_TX0+	B07D (1x)
HDMI-MUX_TX1-	B07C (1x)
HDMI-MUX_TX1-	B07D (1x)
HDMI-MUX_TX1+	B07C (1x)
HDMI-MUX_TX1+	B07D (1x)
HDMI-MUX_TX2-	B07C (1x)
HDMI-MUX_TX2-	B07D (1x)
HDMI-MUX_TX2+	B07C (1x)
HDMI-MUX_TX2+	B07D (1x)
HDMI-MUX_TXC-	B07C (1x)
HDMI-MUX_TXC-	B07D (1x)
HDMI-MUX_TXC+	B07C (1x)
HDMI-MUX_TXC+	B07D (1x)
HDMI-SIDE_CEC_A	B07C (1x)
HDMI-SIDE_CEC_A	B07D (1x)
HDMI-SIDE_TSCL	B07C (2x)
HDMI-SIDE_TSDA	B07C (2x)
HDMI-SIDE_TX0-	B07C (2x)
HDMI-SIDE_TX0+	B07C (2x)
HDMI-SIDE_TX1-	B07C (2x)
HDMI-SIDE_TX1+	B07C (2x)
HDMI-SIDE_TX2-	B07C (2x)
HDMI-SIDE_TX2+	B07C (2x)
HDMI-SIDE_TXC-	B07C (2x)
HDMI-SIDE_TXC+	B07C (2x)
HP_AUDIO_OUT_L	B06A (1x)
HP_AUDIO_OUT_L	B06C (1x)
HP_AUDIO_OUT_R	B06A (1x)
HP_AUDIO_OUT_R	B06C (1x)
HP_DETECT_T	B04 (2x)
HP_LOUT	B04 (1x)
HP_LOUT	B06C (1x)
HP_ROUT	B04 (1x)
HP_ROUT	B06C (1x)
HPD_RESET_A	B07D (2x)
HPD_RESET_B	B07D (2x)
HPD_RESET_C	B07D (2x)
I2C_LOCAL_SCL	B03A (1x)
I2C_LOCAL_SCL	B03B (1x)
I2C_LOCAL_SCL	B03C (1x)
I2C_LOCAL_SCL	B03D (1x)
I2C_LOCAL_SDA	B03A (1x)
I2C_LOCAL_SDA	B03B (1x)
I2C_LOCAL_SDA	B03C (1x)
I2C_LOCAL_SDA	B03D (1x)
I2C_TDA_SCL	B02 (1x)
I2C_TDA_SCL	B03A (1x)
I2C_TDA_SDA	B02 (1x)
I2C_TDA_SDA	B03A (1x)
IBO_B_IN	B03E (1x)
IBO_B_IN	B05A (1x)
IBO_CVBS_IN	B03E (1x)
IBO_CVBS_IN	B04 (1x)
IBO_CVBS_IN	B05A (1x)
IBO_G_IN	B03E (1x)
IBO_G_IN	B05A (1x)
IBO_IRQ	B03C (1x)
IBO_IRQ	B04 (2x)
IBO_R_IN	B03E (1x)
IBO_R_IN	B05A (1x)
IF_AGC_IBO	B02 (1x)
IF_AGC_IBO	B03A (1x)
IF_ATV	B02 (2x)
IIC_SCL	B02 (1x)
IIC_SCL	B04 (1x)
IIC_SCL	B05A (1x)
IIC_SCL	B07C (1x)
IIC_SCL_SIDE	B04 (2x)
IIC_SCL_up	B02 (1x)
IIC_SCL_up	B03C (1x)
IIC_SCL_up	B04 (2x)
IIC_SCL_up	B05D (1x)
IIC_SCL_up	B06A (1x)
IIC_SCL_up	B07D (1x)
IIC_SDA	B02 (1x)
IIC_SDA	B04 (1x)
IIC_SDA	B05A (1x)
IIC_SDA	B07C (1x)
IIC_SDA_SIDE	B04 (2x)
IIC_SDA_up	B02 (1x)
IIC_SDA_up	B03C (1x)
IIC_SDA_up	B04 (2x)
IIC_SDA_up	B05D (1x)
IIC_SDA_up	B06A (1x)
IIC_SDA_up	B07D (1x)
INT	B04 (1x)
INT	B05A (1x)
ITV_SPI_CLK	B04 (2x)
ITV_SPI_DATA_IN	B04 (2x)
JTAG_TCK	B03A (1x)
JTAG_TCK	B03B (1x)
JTAG_TCK	B03C (1x)
JTAG_TCK	B05D (1x)
JTAG_TMS	B03A (1x)
JTAG_TMS	B03B (1x)
JTAG_TMS	B03C (1x)
JTAG_TMS	B05D (1x)
JTAG_TRST	B03A (1x)
JTAG_TRST	B03B (1x)
JTAG_TRST	B03C (1x)
KEYB	B04 (2x)
LCD_PWR_ON	B04 (1x)
LCD_PWR_ON	B07E (1x)
LED1	B04 (2x)
LED2	B04 (2x)
MAIN_SCL	B05D (1x)
MAIN_SCL	B05E (1x)
MAIN_SDA	B05D (1x)
MAIN_SDA	B05E (1x)
MIU_ADDR(0)	B03B (1x)
MIU_ADDR(0)	B03C (1x)
MIU_ADDR(0:24)	B03B (1x)
MIU_ADDR(0:24)	B03C (1x)
MIU_ADDR(1)	B03B (1x)
MIU_ADDR(1)	B03C (1x)
MIU_ADDR(1)	B03D (1x)
MIU_ADDR(10)	B03B (1x)
MIU_ADDR(10)	B03C (1x)
MIU_ADDR(10)	B03D (1x)
MIU_ADDR(11)	B03B (1x)
MIU_ADDR(11)	B03C (1x)
MIU_ADDR(11)	B03D (1x)
MIU_ADDR(12)	B03B (1x)
MIU_ADDR(12)	B03C (1x)
MIU_ADDR(12)	B03D (1x)
MIU_ADDR(13)	B03B (1x)
MIU_ADDR(13)	B03C (1x)
MIU_ADDR(13)	B03D (1x)
MIU_ADDR(14)	B03B (1x)
MIU_ADDR(14)	B03C (1x)
MIU_ADDR(14)	B03D (1x)
MIU_ADDR(15)	B03B (1x)
MIU_ADDR(15)	B03C (1x)
MIU_ADDR(15)	B03D (1x)
MIU_ADDR(16)	B03B (1x)
MIU_ADDR(16)	B03C (1x)
MIU_ADDR(16)	B03D (1x)
MIU_ADDR(17)	B03B (1x)
MIU_ADDR(17)	B03C (1x)
MIU_ADDR(17)	B03D (1x)
MIU_ADDR(18)	B03B (1x)
MIU_ADDR(18)	B03C (1x)
MIU_ADDR(18)	B03D (1x)
MIU_ADDR(19)	B03B (1x)
MIU_ADDR(19)	B03C (1x)
MIU_ADDR(19)	B03D (1x)
MIU_ADDR(2)	B03B (1x)
MIU_ADDR(2)	B03C (1x)
MIU_ADDR(2)	B03D (1x)
MIU_ADDR(20)	B03B (1x)
MIU_ADDR(20)	B03C (1x)
MIU_ADDR(20)	B03D (1x)
MIU_ADDR(21)	B03B (1x)
MIU_ADDR(21)	B03C (1x)
MIU_ADDR(21)	B03D (1x)
MIU_ADDR(22)	B03B (1x)
MIU_ADDR(22)	B03C (1x)
MIU_ADDR(22)	B03D (1x)
MIU_ADDR(23)	B03B (1x)
MIU_ADDR(23)	B03C (1x)
MIU_ADDR(24)	B03B (1x)
MIU_ADDR(24)	B03C (1x)
MIU_ADDR(3)	B03B (1x)
MIU_ADDR(3)	B03C (1x)
MIU_ADDR(3)	B03D (1x)
MIU_ADDR(4)	B03B (1x)
MIU_ADDR(4)	B03C (1x)
MIU_ADDR(4)	B03D (1x)
MIU_ADDR(5)	B03B (1x)
MIU_ADDR(5)	B03C (1x)
MIU_ADDR(5)	B03D (1x)
MIU_ADDR(6)	B03B (1x)
MIU_ADDR(6)	B03C (1x)
MIU_ADDR(6)	B03D (1x)
MIU_ADDR(7)	B03B (1x)
MIU_ADDR(7)	B03C (1x)
MIU_ADDR(7)	B03D (1x)
MIU_ADDR(8)	B03B (1x)
MIU_ADDR(8)	B03C (1x)
MIU_ADDR(8)	B03D (1x)
MIU_ADDR(9)	B03B (1x)
MIU_ADDR(9)	B03C (1x)
MIU_ADDR(9)	B03D (1x)
MIU_DATA(0)	B03B (1x)
MIU_DATA(0)	B03C (1x)
MIU_DATA(0)	B03D (1x)
MIU_DATA(0:15)	B03C (1x)
MIU_DATA(0:15)	B03D (1x)
MIU_DATA(1)	B03B (1x)
MIU_DATA(1)	B03C (1x)
MIU_DATA(1)	B03D (1x)
MIU_DATA(10)	B03C (1x)
MIU_DATA(10)	B03D (1x)
MIU_DATA(11)	B03C (1x)
MIU_DATA(11)	B03D (1x)
MIU_DATA(12)	B03C (1x)
MIU_DATA(12)	B03D (1x)
MIU_DATA(13)	B03C (1x)
MIU_DATA(13)	B03D (1x)
MIU_DATA(14)	B03C (1x)
MIU_DATA(14)	B03D (1x)
MIU_DATA(15)	B03C (1x)
MIU_DATA(15)	B03D (1x)
MIU_DATA(2)	B03B (1x)
MIU_DATA(2)	B03C (1x)
MIU_DATA(2)	B03D (1x)
MIU_DATA(3)	B03B (1x)
MIU_DATA(3)	B03C (1x)
MIU_DATA(3)	B03D (1x)
MIU_DATA(4)	B03B (1x)
MIU_DATA(4)	B03C (1x)
MIU_DATA(4)	B03D (1x)
MIU_DATA(5)	B03B (1x)
MIU_DATA(5)	B03C (1x)
MIU_DATA(5)	B03D (1x)
MIU_DATA(6)	B03B (1x)
MIU_DATA(6)	B03C (1x)
MIU_DATA(6)	B03D (1x)
MIU_DATA(7)	B03B (1x)
MIU_DATA(7)	B03C (1x)
MIU_DATA(7)	B03D (1x)
MIU_DATA(8)	B03C (1x)
MIU_DATA(8)	B03D (1x)
MIU_DATA(9)	B03C (1x)
MIU_DATA(9)	B03D (1x)
MIU_OEN	B03B (1x)
MIU_OEN	B03C (1x)
MIU_OEN	B03D (1x)
MIU_RDY	B03B (1x)
MIU_RDY	B03C (1x)
MIU_WEN	B03B (1x)
MIU_WEN	B03C (1x)
MIU_WEN	B03D (1x)
MOJO_I2S_OUT_SCK	B03C (1x)
MOJO_I2S_OUT_SCK	B06A (1x)
MOJO_I2S_OUT_SD	B03C (1x)
MOJO_I2S_OUT_SD	B06A (1x)
MOJO_I2S_OUT_WS	B03C (1x)
MOJO_I2S_OUT_WS	B06A (1x)
MUTEn	B04 (1x)
MUTEn	B06C (1x)
nCSO	B05D (2x)
nCSO	B05E (1x)
NOR_CS	B03C (1x)
NOR_CS	B03D (1x)
NOR_RYBY	B03C (1x)
NOR_RYBY	B03D (1x)
NOR_WP	B03C (1x)
NOR_WP	B03D (1x)
PC_VGA_H	B05A (2x)
PC_VGA_V	B05A (2x)
PCMCIA_5V	B03B (4x)
PCMCIA_AVCC	B03B (3x)
PCMCIA_VPP	B03B (3x)
POWER_DOWN	B01A (1x)
POWER_DOWN	B04 (1x)
POWER_DOWN	B06C (1x)
RD	B04 (1x)
RD	B05A (1x)
REMOTE	B04 (3x)
RESET_FE_n	B03A (1x)
RESET_FE_n	B03C (1x)
RESET_n	B03C (1x)
RESET_n	B03D (1x)
RESET_n	B04 (2x)
RESET_STV	B03B (1x)
RESET_STV	B03C (1x)
RF_AGC	B02 (2x)
RF_AGC_IBO	B02 (1x)
RF_AGC_IBO	B03A (1x)
RST_AUD	B04 (1x)
RST_AUD	B06A (1x)
RST_H	B04 (1x)
RST_H	B05A (1x)
RX0+A	B07D (2x)
RX0+B	B07D (2x)
RX0+C	B07D (2x)
RX0-A	B07D (2x)
RX0-B	B07D (2x)
RX0-C	B07D (2x)
RX1+A	B07D (2x)
RX1+B	B07D (2x)
RX1+C	B07D (2x)
RX1-A	B07D (2x)
RX1-B	B07D (2x)
RX1-C	B07D (2x)
RX2+A	B07D (2x)
RX2+B	B07D (2x)
RX2+C	B07D (2x)
RX2-A	B07D (2x)
RX2-B	B07D (2x)
RX2-C	B07D (2x)
RXC+A	B07D (2x)
RXC+B	B07D (2x)
RXC+C	B07D (2x)
RXC-A	B07D (2x)
RXC-B	B07D (2x)
RXC-C	B07D (2x)
RXD0	B03C (1x)
RXD0	B03E (1x)
SAW_SW	B02 (1x)
SAW_SW	B04 (1x)
SC1_AUDIO_IN_L	B06A (1x)
SC1_AUDIO_IN_L	B07B (1x)
SC1_AUDIO_IN_R	B06A (1x)
SC1_AUDIO_IN_R	B07B (1x)
SC1_AUDIO_MUTE_L	B06C (1x)
SC1_AUDIO_MUTE_L	B07B (1x)
SC1_AUDIO_MUTE_R	B06C (1x)
SC1_AUDIO_MUTE_R	B07B (1x)
SC1_AUDIO_OUT_L	B06A (1x)
SC1_AUDIO_OUT_L	B07B (2x)
SC1_AUDIO_OUT_R	B06A (1x)
SC1_AUDIO_OUT_R	B07B (2x)
SC1_B_IN	B05A (1x)
SC1_B_IN	B07B (2x)
SC1_CVBS_IN	B05A (1x)
SC1_CVBS_IN	B07B (1x)
SC1_CVBS_RF_OUT	B04 (1x)
SC1_CVBS_RF_OUT	B07B (1x)
SC1_FBL_IN	B05A (1x)
SC1_FBL_IN	B07B (2x)
SC1_G_IN	B05A (1x)
SC1_G_IN	B07B (2x)
SC1_R_IN	B05A (1x)
SC1_R_IN	B07B (2x)
SC1_RF_OUT_CVBS	B05A (1x)
SC1_RF_OUT_CVBS	B07B (1x)
SC1_STATUS	B04 (1x)
SC1_STATUS	B07B (1x)
SC2_AUDIO_IN_L	B06A (1x)
SC2_AUDIO_IN_L	B07B (2x)
SC2_AUDIO_IN_R	B06A (1x)
SC2_AUDIO_IN_R	B07B (2x)
SC2_AUDIO_MUTE_L	B06C (1x)
SC2_AUDIO_MUTE_L	B07B (1x)
SC2_AUDIO_MUTE_R	B06C (1x)
SC2_AUDIO_MUTE_R	B07B (1x)
SC2_AUDIO_OUT_L	B06A (1x)
SC2_AUDIO_OUT_L	B07B (1x)
SC2_AUDIO_OUT_R	B06A (1x)
SC2_AUDIO_OUT_R	B07B (1x)
SC2_C_IN	B05A (1x)
SC2_C_IN	B07B (1x)
SC2_C_IN_ITV	B07B (2x)
SC2_CVBS_MON_OUT	B05A (1x)
SC2_CVBS_MON_OUT	B07B (1x)
SC2_CVBS_MON_OUT_ITV	B06C (1x)
SC2_CVBS_MON_OUT_ITV	B07B (1x)
SC2_STATUS	B04 (1x)
SC2_STATUS	B07B (1x)
SC2_Y_CVBS_IN	B05A (1x)
SC2_Y_CVBS_IN	B07B (1x)
SC2_Y_CVBS_IN_ITV	B07B (2x)
SDRAM_ADDR(0)	B03C (1x)
SDRAM_ADDR(0)	B03D (1x)
SDRAM_ADDR(0:14)	B03C (1x)
SDRAM_ADDR(0:14)	B03D (1x)
SDRAM_ADDR(1)	B03C (1x)
SDRAM_ADDR(1)	B03D (1x)
SDRAM_ADDR(10)	B03C (1x)
SDRAM_ADDR(10)	B03D (1x)
SDRAM_ADDR(11)	B03C (1x)
SDRAM_ADDR(11)	B03D (1x)
SDRAM_ADDR(12)	B03C (1x)
SDRAM_ADDR(12)	B03D (1x)
SDRAM_ADDR(13)	B03C (1x)
SDRAM_ADDR(13)	B03D (1x)
SDRAM_ADDR(14)	B03C (1x)
SDRAM_ADDR(14)	B03D (1x)
SDRAM_ADDR(2)	B03C (1x)
SDRAM_ADDR(2)	B03D (1x)
SDRAM_ADDR(3)	B03C (1x)
SDRAM_ADDR(3)	B03D (1x)
SDRAM_ADDR(4)	B03C (1x)
SDRAM_ADDR(4)	B03D (1x)
SDRAM_ADDR(5)	B03C (1x)
SDRAM_ADDR(5)	B03D (1x)
SDRAM_ADDR(6)	B03C (1x)
SDRAM_ADDR(6)	B03D (1x)
SDRAM_ADDR(7)	B03C (1x)
SDRAM_ADDR(7)	B03D (1x)
SDRAM_ADDR(8)	B03C (1x)
SDRAM_ADDR(8)	B03D (1x)
SDRAM_ADDR(9)	B03C (1x)
SDRAM_ADDR(9)	B03D (1x)
SDRAM_CAS	B03C (1x)
SDRAM_CAS	B03D (1x)
SDRAM_CKE	B03C (1x)
SDRAM_CKE	B03D (1x)
SDRAM_CLK	B03C (1x)
SDRAM_CLK	B03D (1x)
SDRAM_DATA(0)	B03C (1x)
SDRAM_DATA(0)	B03D (1x)
SDRAM_DATA(0:15)	B03C (1x)
SDRAM_DATA(1)	B03C (1x)
SDRAM_DATA(1)	B03D (1x)
SDRAM_DATA(10)	B03C (1x)
SDRAM_DATA(10)	B03D (1x)
SDRAM_DATA(11)	B03C (1x)
SDRAM_DATA(11)	B03D (1x)
SDRAM_DATA(12)	B03C (1x)
SDRAM_DATA(12)	B03D (1x)
SDRAM_DATA(13)	B03C (1x)
SDRAM_DATA(13)	B03D (1x)
SDRAM_DATA(14)	B03C (1x)
SDRAM_DATA(14)	B03D (1x)
SDRAM_DATA(15)	B03C (1x)
SDRAM_DATA(15)	B03D (1x)
SDRAM_DATA(2)	B03C (1x)
SDRAM_DATA(2)	B03D (1x)
SDRAM_DATA(3)	B03C (1x)
SDRAM_DATA(3)	B03D (1x)
SDRAM_DATA(4)	B03C (1x)
SDRAM_DATA(4)	B03D (1x)
SDRAM_DATA(5)	B03C (1x)
SDRAM_DATA(5)	B03D (1x)
SDRAM_DATA(6)	B03C (1x)
SDRAM_DATA(6)	B03D (1x)
SDRAM_DATA(7)	B03C (1x)
SDRAM_DATA(7)	B03D (1x)
SDRAM_DATA(8)	B03C (1x)
SDRAM_DATA(8)	B03D (1x)
SDRAM_DATA(9)	B03C (1x)
SDRAM_DATA(9)	B03D (1x)
SDRAM_DQM0	B03C (1x)
SDRAM_DQM0	B03D (1x)
SDRAM_DQM1	B03C (1x)
SDRAM_DQM1	B03D (1x)
SDRAM_RAS	B03C (1x)
SDRAM_RAS	B03D (1x)
SDRAM_WE	B03C (1x)
SDRAM_WE	B03D (1x)
SIDE_AUDIO_IN_L	B04 (1x)
SIDE_AUDIO_IN_L	B06A (1x)
SIDE_AUDIO_IN_R	B04 (1x)
SIDE_AUDIO_IN_R	B06A (1x)
SIF	B02 (1x)
SIF	B06A (1x)
SIF1	B02 (2x)
SIF2	B02 (2x)
STANDBY	B01A (2x)
STANDBY	B04 (2x)
STANDBY	B06C (1x)
STANDBYn	B04 (1x)
STANDBYn	B06B (1x)
STANDBYn	B07E (1x)
STV_A25	B03B (1x)
STV_A25	B03C (1x)
STV_CS	B03B (1x)
STV_CS	B03C (1x)
STV_INT	B03B (1x)
STV_INT	B03C (1x)
STV_TDO	B03A (1x)
STV_TDO	B03B (1x)
SVHS_C_IN	B05A (1x)
SVHS_C_IN	B07A (1x)
TCK_FPGA	B05D (1x)
TCK_FPGA	B05E (1x)
TDA_CLK	B03A (1x)
TDA_CLK	B03B (1x)
TDA_DAT(0)	B03A (1x)
TDA_DAT(0)	B03B (1x)
TDA_DAT(0:7)	B03A (1x)
TDA_DAT(0:7)	B03B (1x)
TDA_DAT(1)	B03A (1x)
TDA_DAT(1)	B03B (1x)
TDA_DAT(2)	B03A (1x)
TDA_DAT(2)	B03B (1x)
TDA_DAT(3)	B03A (1x)
TDA_DAT(3)	B03B (1x)
TDA_DAT(4)	B03A (1x)
TDA_DAT(4)	B03B (1x)
TDA_DAT(5)	B03A (1x)
TDA_DAT(5)	B03B (1x)
TDA_DAT(6)	B03A (1x)
TDA_DAT(6)	B03B (1x)
TDA_DAT(7)	B03A (1x)
TDA_DAT(7)	B03B (1x)
TDA_SYNC	B03A (1x)
TDA_SYNC	B03B (1x)
TDA_VALID	B03A (1x)
TDA_VALID	B03B (1x)
TDI_FPGA	B05D (1x)
TDI_FPGA	B05E (1x)
TDO_FPGA	B05D (1x)
TDO_FPGA	B05E (1x)
TMS_FPGA	B05D (1x)
TMS_FPGA	B05E (1x)
TS_CLK	B03B (1x)
TS_CLK	B03C (1x)
TS_DATA(0)	B03B (1x)
TS_DATA(0)	B03C (1x)
TS_DATA(0:7)	B03C (1x)
TS_DATA(1)	B03B (1x)
TS_DATA(1)	B03C (1x)
TS_DATA(2)	B03B (1x)
TS_DATA(2)	B03C (1x)
TS_DATA(3)	B03B (1x)
TS_DATA(3)	B03C (1x)
TS_DATA(4)	B03B (1x)
TS_DATA(4)	B03C (1x)
TS_DATA(5)	B03B (1x)
TS_DATA(5)	B03C (1x)
TS_DATA(6)	B03B (1x)
TS_DATA(6)	B03C (1x)
TS_DATA(7)	B03B (1x)
TS_DATA(7)	B03C (1x)
TS_SYNC	B03B (1x)
TS_SYNC	B03C (1x)
TS_VALID	B03B (1x)
TS_VALID	B03C (1x)
TXD0	B03C (1x)
TXD0	B03E (1x)
TxFPGAe_0n	B05A (1x)
TxFPGAe_0n	B05E (1x)
TxFPGAe_0p	B05A (1x)
TxFPGAe_0p	B05E (1x)
TxFPGAe_1n	B05A (1x)
TxFPGAe_1n	B05E (1x)
TxFPGAe_1p	B05A (1x)
TxFPGAe_1p	B05E (1x)
TxFPGAe_2n	B05A (1x)
TxFPGAe_2n	B05E (1x)
TxFPGAe_2p	B05A (1x)
TxFPGAe_2p	B05E (1x)
TxFPGAe_3n	B05A (1x)
TxFPGAe_3n	B05E (1x)
TxFPGAe_3p	B05A (1x)
TxFPGAe_3p	B05E (1x)
TxFPGAe_4n	B05A (1x)
TxFPGAe_4n	B05E (1x)
TxFPGAe_4p	B05A (1x)
TxFPGAe_4p	B05E (1x)
TxFPGAe_CLKn	B05A (1x)
TxFPGAe_CLKn	B05E (1x)
TxFPGAe_CLKp	B05A (1x)
TxFPGAe_CLKp	B05E (1x)
TxFPGAo_0n	B05A (1x)
TxFPGAo_0n	B05E (1x)
TxFPGAo_0p	B05A (1x)
TxFPGAo_0p	B05E (1x)
TxFPGAo_1n	B05A (1x)
TxFPGAo_1n	B05E (1x)
TxFPGAo_1p	B05A (1x)
TxFPGAo_1p	B05E (1x)
TxFPGAo_2n	B05A (1x)
TxFPGAo_2n	B05E (1x)
TxFPGAo_2p	B05A (1x)
TxFPGAo_2p	B05E (1x)
TxFPGAo_3n	B05A (1x)
TxFPGAo_3n	B05E (1x)
TxFPGAo_3p	B05A (1x)
TxFPGAo_3p	B05E (1x)
TxFPGAo_4n	B05A (1x)
TxFPGAo_4n	B05E (1x)
TxFPGAo_4p	B05A (1x)
TxFPGAo_4p	B05E (1x)
TxFPGAo_CLKn	B05A (1x)
TxFPGAo_CLKn	B05E (1x)
TxFPGAo_CLKp	B05A (1x)
TxFPGAo_CLKp	B05E (1x)
TxLVDSe_0n	B05E (1x)
TxLVDSe_0n	B07E (1x)
TxLVDSe_0p	B05E (1x)
TxLVDSe_0p	B07E (1x)
TxLVDSe_1n	B05E (1x)
TxLVDSe_1n	B07E (1x)
TxLVDSe_1p	B05E (1x)
TxLVDSe_1p	B07E (1x)
TxLVDSe_2n	B05E (1x)
TxLVDSe_2n	B07E (1x)
TxLVDSe_2p	B05E (1x)
TxLVDSe_2p	B07E (1x)
TxLVDSe_3n	B05E (1x)
TxLVDSe_3n	B07E (1x)
TxLVDSe_3p	B05E (1x)
TxLVDSe_3p	B07E (1x)
TxLVDSe_4n	B05E (1x)
TxLVDSe_4n	B07E (1x)
TxLVDSe_4p	B05E (1x)
TxLVDSe_4p	B07E (1x)
TxLVDSe_CLKn	B05E (1x)
TxLVDSe_CLKn	B07E (1x)
TxLVDSe_CLKp	B05E (1x)
TxLVDSe_CLKp	B07E (1x)
TxLVDSo_0n	B05E (1x)
TxLVDSo_0n	B07E (1x)
TxLVDSo_0p	B05E (1x)
TxLVDSo_0p	B07E (1x)
TxLVDSo_1n	B05E (1x)
TxLVDSo_1n	B07E (1x)
TxLVDSo_1p	B05E (1x)
TxLVDSo_1p	B07E (1x)
TxLVDSo_2n	B05E (1x)
TxLVDSo_2n	B07E (1x)
TxLVDSo_2p	B05E (1x)
TxLVDSo_2p	B07E (1x)
TxLVDSo_3n	B05E (1x)
TxLVDSo_3n	B07E (1x)
TxLVDSo_3p	B05E (1x)
TxLVDSo_3p	B07E (1x)
TxLVDSo_4n	B05E (1x)
TxLVDSo_4n	B07E (1x)
TxLVDSo_4p	B05E (1x)
TxLVDSo_4p	B07E (1x)
TxLVDSo_CLKn	B05E (1x)
TxLVDSo_CLKn	B07E (1x)
TxLVDSo_CLKp	B05E (1x)
TxLVDSo_CLKp	B07E (1x)
user_EEPROM_WP	B03C (1x)
user_EEPROM_WP	B03D (1x)
VCCEN	B03B (2x)
VDD	B06B (3x)
VDDA	B06B (2x)
VGA_H	B05A (1x)
VGA_H	B07A (1x)
VGA_V	B05A (1x)
VGA_V	B07A (1x)
VIF1	B02 (2x)
VIF2	B02 (2x)
VIM_IBO	B02 (1x)
VIM_IBO	B03A (1x)
VIP_IBO	B02 (1x)
VIP_IBO	B03A (1x)
VSS	B06B (3x)
VSSA	B06B (5x)
WAGC_SW	B02 (1x)
WAGC_SW	B04 (1x)
WR	B04 (1x)
WR	B05A (1x)
WX_AVCC	B05A (2x)
WX_BA0	B05B (2x)
WX_BA0	B05C (1x)
WX_BA1	B05B (2x)
WX_BA1	B05C (1x)
WX_CAS#	B05B (2x)
WX_CAS#	B05C (1x)
WX_CLKE	B05B (2x)
WX_CLKE	B05C (1x)
WX_CS0#	B05B (2x)
WX_CS0#	B05C (1x)
WX_DQM0	B05B (1x)
WX_DQM0	B05C (1x)
WX_DQM1	B05B (1x)
WX_DQM1	B05C (1x)
WX_DQM2	B05B (1x)
WX_DQM2	B05C (1x)
WX_DQM3	B05B (1x)
WX_DQM3	B05C (1x)
WX_DQS0	B05B (1x)
WX_DQS0	B05C (1x)
WX_DQS1	B05B (1x)
WX_DQS1	B05C (1x)
WX_DQS2	B05B (1x)
WX_DQS2	B05C (1x)
WX_DQS3	B05B (1x)
WX_DQS3	B05C (1x)
WX_MA0	B05B (2x)
WX_MA0	B05C (1x)
WX_MA1	B05B (2x)
WX_MA1	B05C (1x)
WX_MA10	B05B (2x)
WX_MA10	B05C (1x)
WX_MA11	B05B (2x)
WX_MA11	B05C (1x)
WX_MA2	B05B (2x)
WX_MA2	B05C (1x)
WX_MA3	B05B (2x)
WX_MA3	B05C (1x)
WX_MA4	B05B (2x)
WX_MA4	B05C (1x)
WX_MA5	B05B (2x)
WX_MA5	B05C (1x)
WX_MA6	B05B (2x)
WX_MA6	B05C (1x)
WX_MA7	B05B (2x)
WX_MA7	B05C (1x)
WX_MA8	B05B (2x)
WX_MA8	B05C (1x)
WX_MA9	B05B (2x)
WX_MA9	B05C (1x)
WX_MCK0	B05B (2x)
WX_MCK0	B05C (1x)
WX_MCK0#	B05B (2x)
WX_MCK0#	B05C (1x)
WX_MD0	B05B (1x)
WX_MD0	B05C (1x)
WX_MD1	B05B (1x)
WX_MD1	B05C (1x)
WX_MD10	B05B (1x)
WX_MD10	B05C (1x)
WX_MD11	B05B (1x)
WX_MD11	B05C (1x)
WX_MD12	B05B (1x)
WX_MD12	B05C (1x)
WX_MD13	B05B (1x)
WX_MD13	B05C (1x)
WX_MD14	B05B (1x)
WX_MD14	B05C (1x)
WX_MD15	B05B (1x)
WX_MD15	B05C (1x)
WX_MD16	B05B (1x)
WX_MD16	B05C (1x)
WX_MD17	B05B (1x)
WX_MD17	B05C (1x)
WX_MD18	B05B (1x)
WX_MD18	B05C (1x)
WX_MD19	B05B (1x)
WX_MD19	B05C (1x)
WX_MD2	B05B (1x)
WX_MD2	B05C (1x)
WX_MD20	B05B (1x)
WX_MD20	B05C (1x)
WX_MD21	B05B (1x)
WX_MD21	B05C (1x)
WX_MD22	B05B (1x)
WX_MD22	B05C (1x)
WX_MD23	B05B (1x)
WX_MD23	B05C (1x)
WX_MD24	B05B (1x)
WX_MD24	B05C (1x)
WX_MD25	B05B (1x)
WX_MD25	B05C (1x)
WX_MD26	B05B (1x)
WX_MD26	B05C (1x)
WX_MD27	B05B (1x)
WX_MD27	B05C (1x)
WX_MD28	B05B (1x)
WX_MD28	B05C (1x)
WX_MD29	B05B (1x)
WX_MD29	B05C (1x)
WX_MD3	B05B (1x)
WX_MD3	B05C (1x)
WX_MD30	B05B (1x)
WX_MD30	B05C (1x)
WX_MD31	B05B (1x)
WX_MD31	B05C (1x)
WX_MD4	B05B (1x)
WX_MD4	B05C (1x)
WX_MD5	B05B (1x)
WX_MD5	B05C (1x)
WX_MD6	B05B (1x)
WX_MD6	B05C (1x)
WX_MD7	B05B (1x)
WX_MD7	B05C (1x)
WX_MD8	B05B (1x)
WX_MD8	B05C (1x)
WX_MD9	B05B (1x)
WX_MD9	B05C (1x)
WX_PAVDD1	B05A (1x)
WX_PAVDD1	B05C (1x)
WX_PAVDD2	B05A (1x)
WX_PAVDD2	B05C (1x)
WX_PVCC	B05A (2x)
WX_RAS#	B05B (2x)
WX_RAS#	B05C (1x)
WX_REGVCC	B05A (2x)
WX_WE#	B05B (2x)
WX_WE#	B05C (1x)
Y_IN	B07A (2x)

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Layout SSB (Overview Top Side)

1001 B10 1307 A8 1508 D10 1523 C9 1A01 A10 1R02 A6 2142 E6 2341 C8 2432 B8 2447 B8 2915 A7 2A22 B9 2B24 B1 2C09 D5 2C82 C4 2E17 D5 2G02 C3 2K07 E1 2L29 A8 2P29 B3 2R23 A6 3314 D7 3352 C8 3397 D7 3725 A6 3740 B6 3902 B7 3A03 A8 3B12 A1 3C32 C3 3D47 B4 3R25 A7 7410 A8
1002 B9 1308 A8 1509 D9 1524 C9 1A02 A7 1R03 A6 2201 A6 2408 B8 2433 B8 2700 A6 2916 A7 2A24 B9 2B25 A2 2C10 D5 2D31 A4 2E18 D5 2G17 B1 2K11 D3 2L30 A8 2P30 B3 2R24 A6 3315 C7 3354 C8 3398 B8 3726 A6 3741 B6 3903 A7 3A04 A9 3B17 A1 3C33 C3 3D48 B4 3R26 A7 7700 B6
1101 E3 1309 A8 1510 D10 1525 B10 1A03 A9 1R04 A6 2202 A6 2409 B8 2434 B8 2702 A6 2A01 A9 2A29 B9 2B26 A2 2C11 D5 2D32 C4 2E19 D4 2G18 C1 2K13 D3 2L31 A8 2P34 A3 3113 E6 3317 C7 3359 C8 3399 B7 3727 A6 3742 B6 3904 A7 3A06 A8 3B18 A1 3C34 C3 3E02 C4 3R35 A6 7901 B7
1102 E6 1310 A8 1511 D9 1526 E10 1B12 A2 1R05 A6 2211 B7 2410 A8 2435 B8 2718 A6 2A02 A9 2A30 A9 2B27 A2 2C12 D5 2D71 A4 2E20 D4 2G22 D3 2K14 F2 2L32 A8 2P46 B3 3117 F6 3320 C6 3360 C8 3402 B8 3728 A6 3743 B6 3905 B7 3A07 B8 3B19 A1 3C36 D3 3E04 C4 3R48 A6 7917 B7
1103 E6 1312 B8 1512 D9 1601 F9 1B13 A2 1R06 A6 2212 B7 2411 B8 2436 B8 2721 A6 2A04 B9 2A32 B9 2B65 A2 2C13 D5 2D72 A4 2E23 C4 2G23 D1 2K16 F3 2L33 A8 2P55 C3 3118 E6 3322 C7 3361 C8 3410 B7 3729 A6 3744 B6 3906 B7 3A08 B9 3B65 A2 3C37 D3 3G15 B1 3R49 A6 7919 B7
1104 D6 1313 A1 1513 D10 1606 F10 1C24 C4 1R07 A6 2213 B7 2412 B8 2437 B8 2724 B7 2A08 A9 2A33 A9 2B66 B2 2C14 D4 2E01 D4 2E24 C4 2G24 B1 2K17 F3 2L34 A8 2P56 C4 3119 E6 3324 C7 3362 C8 3411 B7 3730 A6 3745 B6 3907 B7 3A11 B8 3B66 A1 3D01 B5 3G19 B1 3R50 A6 7A01 A9
1201 A4 1314 B9 1514 D10 1607 F9 1J14 B10 1R08 A7 2310 D7 2413 B8 2438 B8 2734 A6 2A09 A9 2A34 A9 2B67 A2 2C15 D4 2E02 D4 2E25 C4 2G33 B2 2L20 A8 2L35 A8 2P59 B3 3188 E6 3329 D7 3380 C6 3416 B8 3731 A6 3746 B6 3908 A7 3A13 B9 3C01 C4 3D02 B5 3G48 B1 3R51 A6 7A05 A9
1202 A4 1500 E10 1515 D10 1608 F9 1K00 E5 1R09 A7 2312 C7 2414 B8 2439 A7 2901 A7 2A10 B9 2A40 A9 2C01 C4 2C18 D5 2E09 C4 2E26 C4 2H06 C3 2L21 A7 2M11 F6 2P61 B3 3192 D6 3330 C6 3382 C8 3702 B7 3732 B6 3747 B6 3909 A7 3A19 A9 3C02 D4 3D05 B5 3G56 D1 3R52 A6 7A06 A9
1203 A5 1501 E10 1516 D9 1609 F8 1L20 A8 1R10 A7 2313 B7 2417 B8 2440 A7 2902 B7 2A11 A9 2A41 A9 2C02 C4 2C19 D5 2E10 C4 2F10 D3 2H07 D1 2L22 A7 2N03 E8 2P68 B3 3201 A6 3343 B9 3384 C8 3713 B6 3733 B6 3748 B6 3910 A7 3A26 A8 3C03 C6 3D06 B5 3G57 D1 3R53 A6 7A07 A9
1301 D7 1502 E9 1517 D9 1610 F9 1M01 F6 1R11 A7 2314 D7 2418 B8 2441 B8 2904 B7 2A12 A9 2B10 A2 2C03 D4 2C22 B4 2E11 C4 2F11 D3 2H08 D3 2L23 A8 2N06 E8 2P72 A4 3202 A6 3345 B9 3386 C8 3714 B6 3734 B6 3749 B6 3934 B7 3A27 A9 3C04 C6 3D09 B5 3G58 D1 3R54 A6 7B01 B1
1302 B9 1503 E10 1518 C10 1611 F9 1M02 F7 1R12 A7 2316 D7 2419 B8 2442 B8 2905 A7 2A15 A8 2B12 B1 2C04 D5 2C23 C4 2E12 C4 2F12 F3 2J01 B1 2L24 A8 2N11 E8 2R01 A7 3303 C6 3347 D8 3387 C6 3720 B6 3735 B6 3750 B6 3935 B7 3A28 A9 3C05 C6 3D11 B5 3G59 D1 4113 D6 7B02 A1
1303 B9 1504 D9 1519 D9 1613 F10 1M03 F8 1R13 A7 2317 D7 2420 B8 2443 B8 2907 B7 2A16 B8 2B18 A1 2C05 D5 2C28 C4 2E13 D5 2F13 F3 2J04 D3 2L25 A8 2N13 D8 2R02 A7 3309 B8 3348 D8 3388 D7 3721 B6 3736 B6 3751 B6 3937 B7 3A29 A9 3C06 C6 3D38 B4 3J01 D3 4117 E5 7C01 C5
1304 A9 1505 E9 1520 D9 1615 F9 1N01 F10 2117 F6 2318 C7 2421 B8 2444 B8 2908 B7 2A18 A9 2B19 B2 2C06 D5 2C29 C4 2E14 D5 2F20 D3 2J05 D3 2L26 A8 2N14 E8 2R11 A5 3310 C6 3349 D8 3393 B7 3722 B6 3737 B6 3752 B6 3938 B7 3A30 A9 3C29 C4 3D40 B4 3J02 D3 4120 E5 7C03 C3
1305 A3 1506 D10 1521 C10 1619 E9 1N02 D8 2119 E6 2323 C8 2422 B7 2445 B8 2913 B7 2A19 B9 2B21 B1 2C07 D5 2C33 C4 2E15 D5 2F21 D3 2J06 D3 2L27 A8 2N67 E10 2R20 A6 3311 B8 3350 D7 3395 B8 3723 A6 3738 B6 3753 B6 3A01 A9 3A31 A9 3C30 C4 3D43 B4 3J03 D3 4301 A7 7D01 B5
1306 A8 1507 E9 1522 D9 1901 B9 1R01 A6 2127 D6 2338 B8 2423 A8 2446 B8 2914 B7 2A20 B8 2B22 A1 2C08 D5 2C81 C4 2E16 D5 2F22 E3 2K06 F1 2L28 A8 2P28 A3 2R21 A6 3313 C7 3351 C8 3396 C6 3724 A6 3739 B6 3901 B7 3A02 A9 3B10 A2 3C31 C4 3D44 B5 3J14 B9 4313 C8 7D02 B4
3J15 B9 4323 C8 7G00 C2
3K00 F2 4401 A7 7H00 D2
3K01 F2 4402 A7 7H02 C3
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3K03 F3 4408 B7 7J05 D3
3K05 F3 4409 B7 7K00 F2
3K09 F2 4410 B7 7K04 F3
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3K16 E2 4902 B7 7N01 E7
3K18 F1 4H01 D2 7P06 A3
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3K50 E2 4N03 E7
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3L02 C8 4R06 A6
3L03 C8 4R07 A6
3L04 B7 4R08 A6
3L05 C7 5111 F6
3L06 C8 5117 E6
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3L08 C8 5301 B7
3L09 C8 5306 C8
3L11 C6 5401 B8
3L12 C8 5402 B8
3L13 C8 5403 B8
3L15 C8 5700 A6
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3L20 A7 5A04 B10
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3L24 A8 5B05 B2
3L25 A8 5B08 A2
3L27 A8 5C06 C4
3L28 D8 5C08 C4
3L53 C8 5D03 A4
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3L59 C6 5E16 D4
3L61 C8 5F10 D3
3L62 C8 5F11 D3
3L63 D8 5G01 C3
3L67 D7 5G02 C3
3L71 C8 5G04 D3
3L72 B8 5G06 C3
3L73 C8 5G07 C3
3L75 C8 5H01 D3
3L76 C8 5H02 D1
3L79 D8 5K03 F1
3L86 B7 5K04 D2
3L94 C8 5K05 D3
3L95 C8 5P01 A3
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3N02 D7 5P09 B3
3N03 E7 6103 E6
3N04 D7 6306 B9
3N05 D7 6307 B9
3N06 D7 6317 B7
3N07 D7 6318 B8
3N08 D7 6914 B7
3N09 D7 6B30 B2
3N10 D7 6J03 D3
3N11 D8 6J14 B9
3N12 D8 6J15 B9
3N13 E7 7109 E6
3N14 E7 7113 D6
3N15 E7 7201 B7
3N16 D7 7302 C8
3N22 D8 7303 C8
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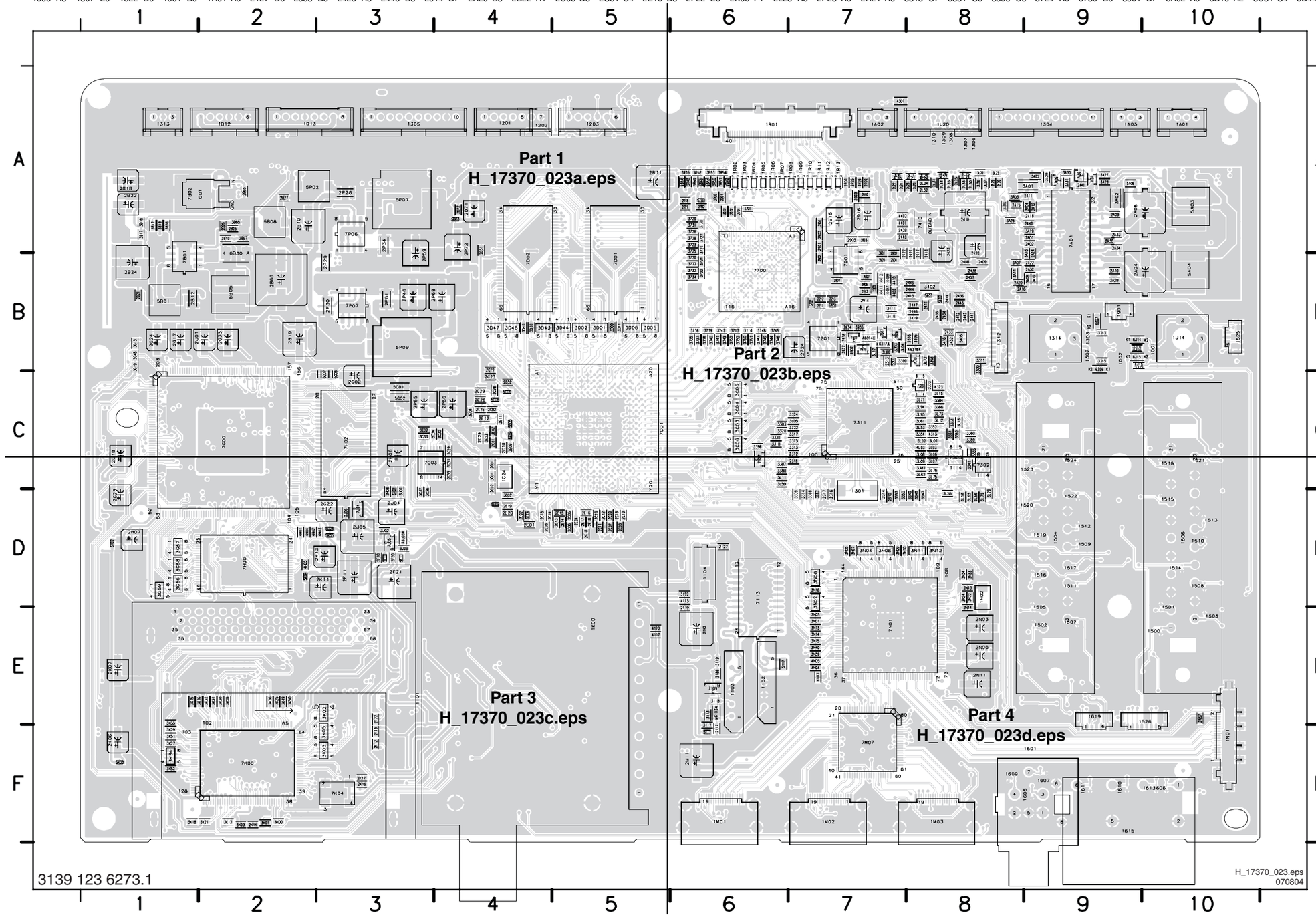

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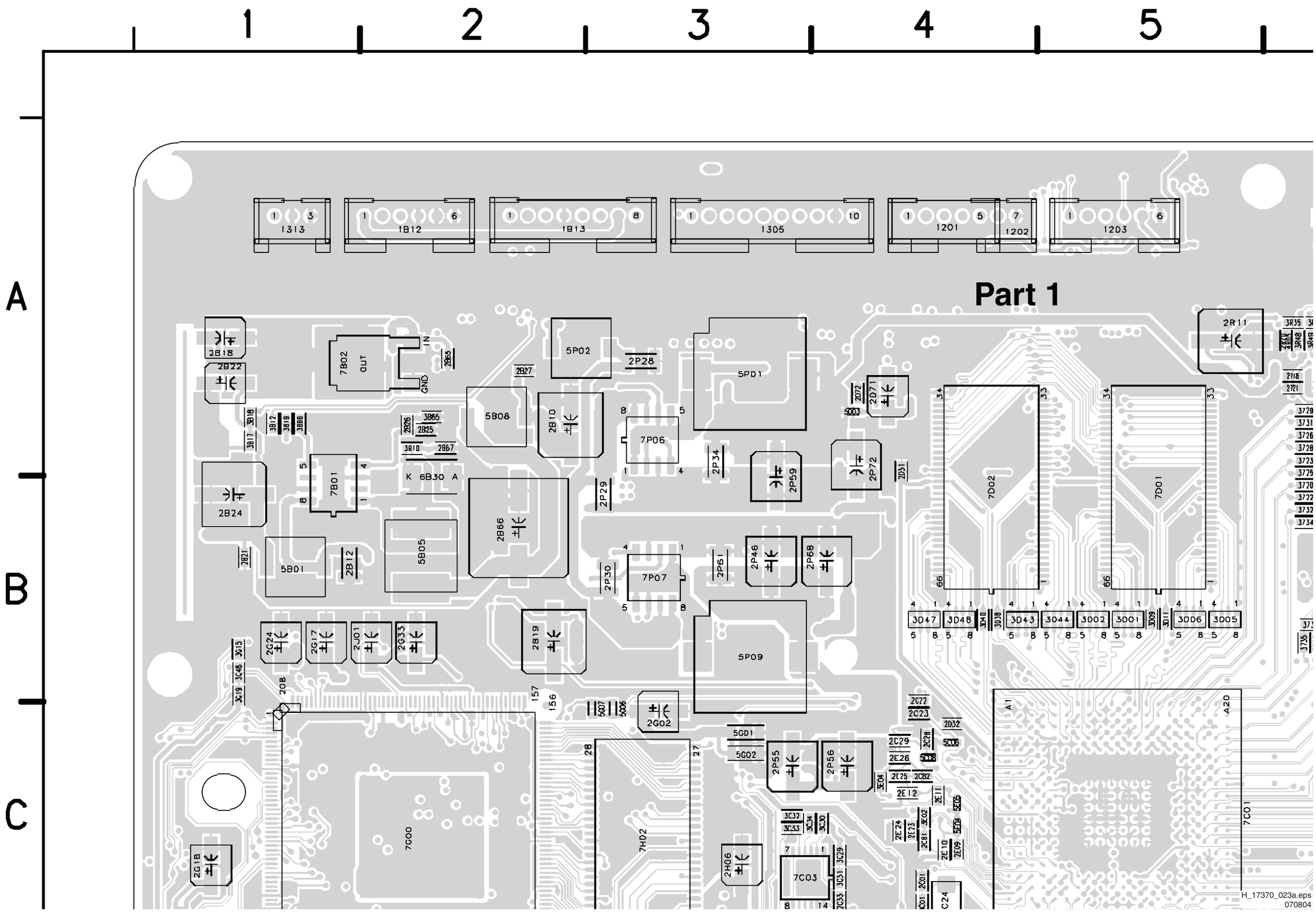
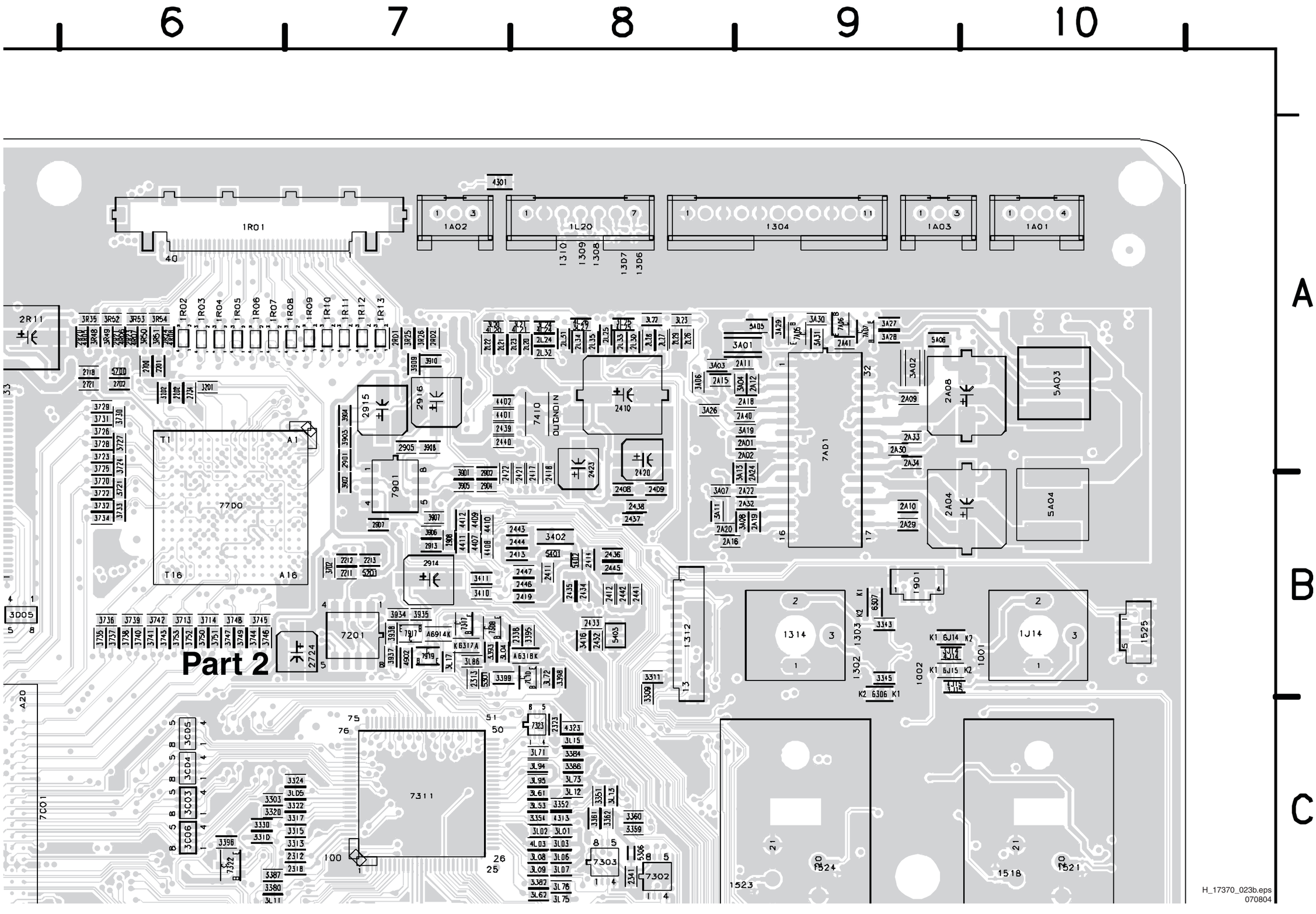
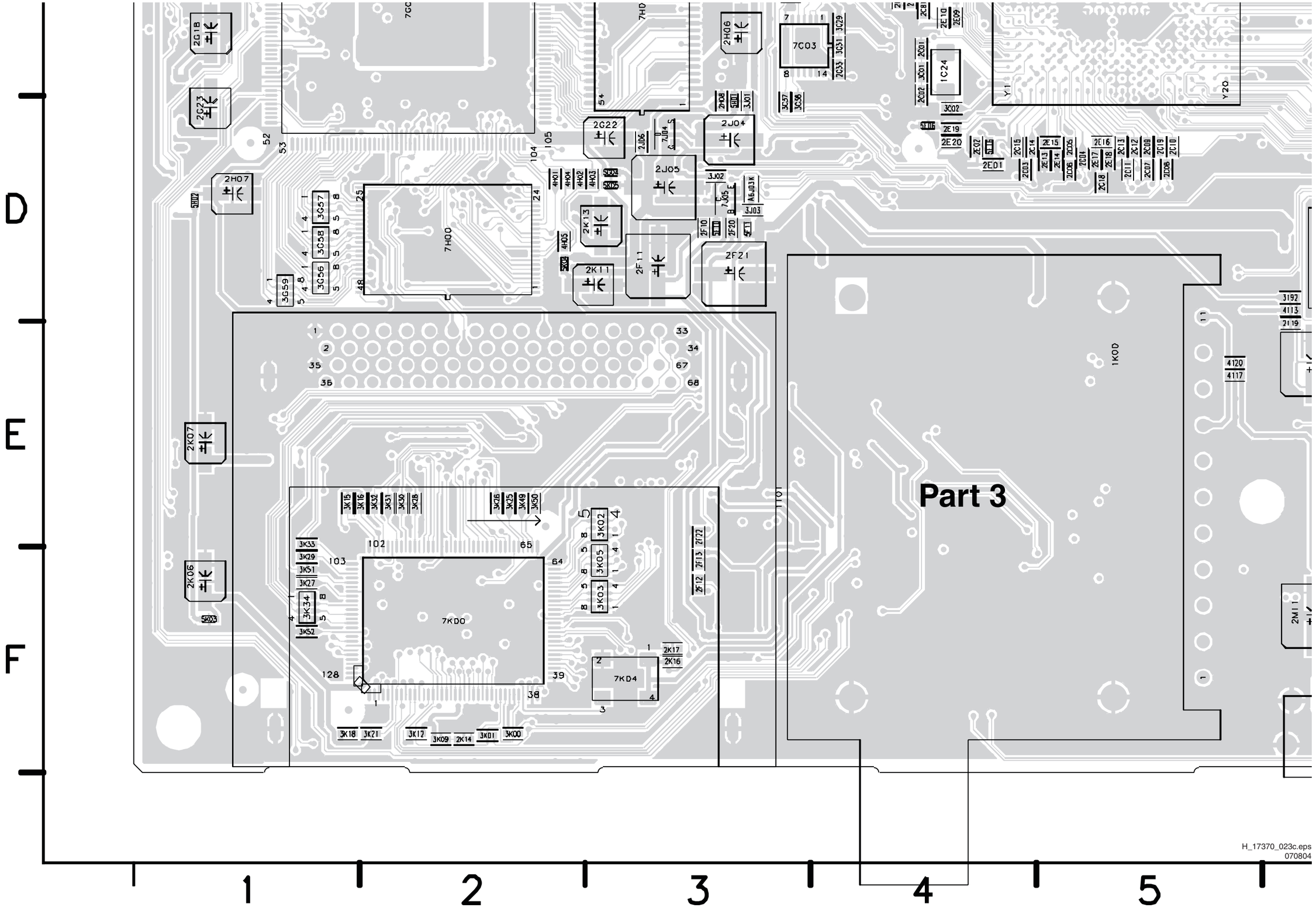
Layout SSB (Part 1 Top Side)



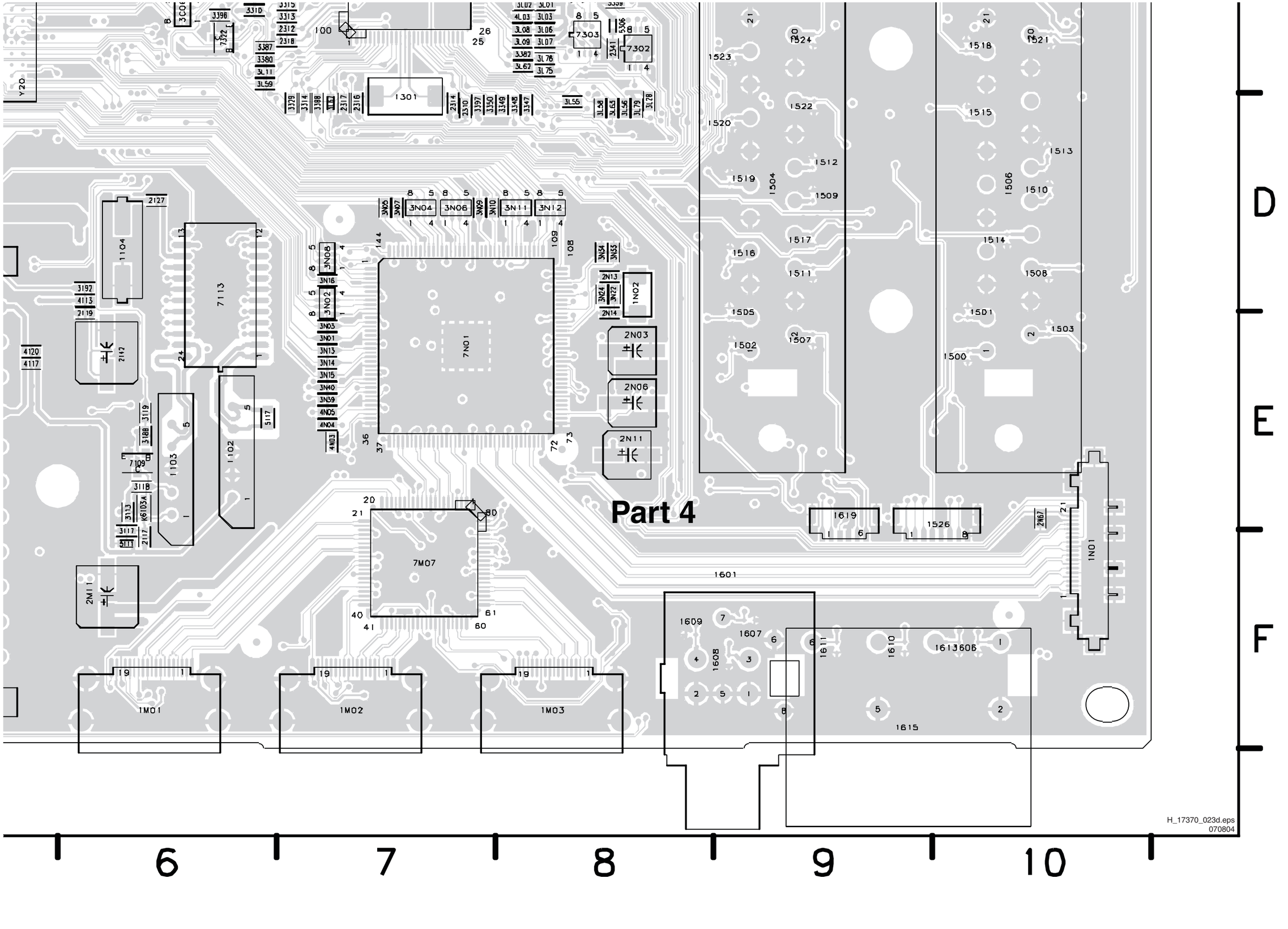
Layout SSB (Part 2 Top Side)



Layout SSB (Part 3 Top Side)



Layout SSB (Part 4 Top Side)



Layout SSB (Overview Bottom Side)

1204	A4
1311	F7
1411	B3
1G01	C10
2112	F7
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2118	E6
2120	E6
2121	F6
2122	E6
2123	D5
2124	D5
2125	D5
2126	D5
2128	D5
2129	D5
2130	E5
2131	E7
2132	E7
2133	E5
2134	D5
2135	D5
2136	D5
2137	E5
2138	E5
2139	E5
2140	D5
2141	D5
2143	E5
2144	E5
2145	E5
2146	F6
2147	E6
2148	E7
2149	F7
2203	A5
2204	A5
2205	A6
2206	A7
2207	A7
2208	A7
2209	A7
2210	A7
2214	B4
2311	C4
2315	D5
2319	C3
2320	C3
2324	C3
2327	A3
2329	A3
2330	A3
2331	A3
2332	A3
2333	A3
2335	A3
2336	A3
2337	A4
2339	A3
2340	A3
2415	B3
2416	B3
2424	A3
2425	A3
2426	A3
2427	A3
2428	A3
2429	A3
2430	A3
2431	A3
2502	E2
2506	E2
2508	E3
2509	E1
2512	E1
2514	E3
2515	E2
2517	E2
2518	D1
2520	D1
2521	E2
2523	E2
2524	D2
2525	C2
2526	C2
2527	D3
2528	D3
2529	D3
2530	C1
2531	D2
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2534	D3
2535	C3
2536	C2
2538	C2
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2609	F2
2610	E1
2612	F1
2613	E3
2614	E3
2615	E2
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2701	A5
2703	A5
2704	A5
2705	A4
2706	B4
2707	B5
2708	B5
2709	B5
2710	B5
2711	B5
2712	B4
2713	B5
2714	B5
2715	A4
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2A27	B2
2A28	A1
2A31	B2
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2A36	B2
2A37	A1
2A38	A1
2A45	A1
2A46	A2
2A47	A2
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2A51	A1
2A52	A2
2A53	A2
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2B68	A9
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2C21	C6
2C24	C7
2C25	C7
2C26	C7
2C27	C7
2C30	C5
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2C74	B5
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2D03	B6
2D04	A6
2D08	B6
2D09	B6
2D10	B6
2D11	B6
2D12	B6
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2D38	B7
2D39	B7
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2E05	C6
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2E07	C6
2E08	C6
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2E56	C6
2E57	C6
2E58	C6
2E66	C6
2E67	C7
2E68	C7
2E69	C6
2E70	B6
2E71	C5
2E72	C6
2E75	C6
2E76	C6
2E77	C6
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2G14	C9
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2G16	C10
2G19	B9
2G20	B9
2G21	C9
2G31	C9
2G32	C9
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2H04	D9
2H09	C8
2H10	C8
2H11	C8
2H12	C8
2H13	C8
2H14	B9
2H15	B9
2J02	B9
2J60	C9
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2J64	C9
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2J68	C8
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2J70	C8
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2K03	E9
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2P42	B8
2P43	B8
2P48	B8
2P49	A8
2P52	B9
2P53	B9
2P54	B8
2P58	B8
2P73	B8
2P78	A8
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2R12	A6
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3C23	C5
3C24	B5
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3C40	C6
3C41	D6
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3G61	D10
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3H05	D10
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3L16	C3
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3L57	C4
3L60	D3
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3L96	C5
3M03	F5
3M04	F5
3M07	F4
3M08	F4
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4314	C3
4315	C3
4316	C3
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4504	C3
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4603	E2
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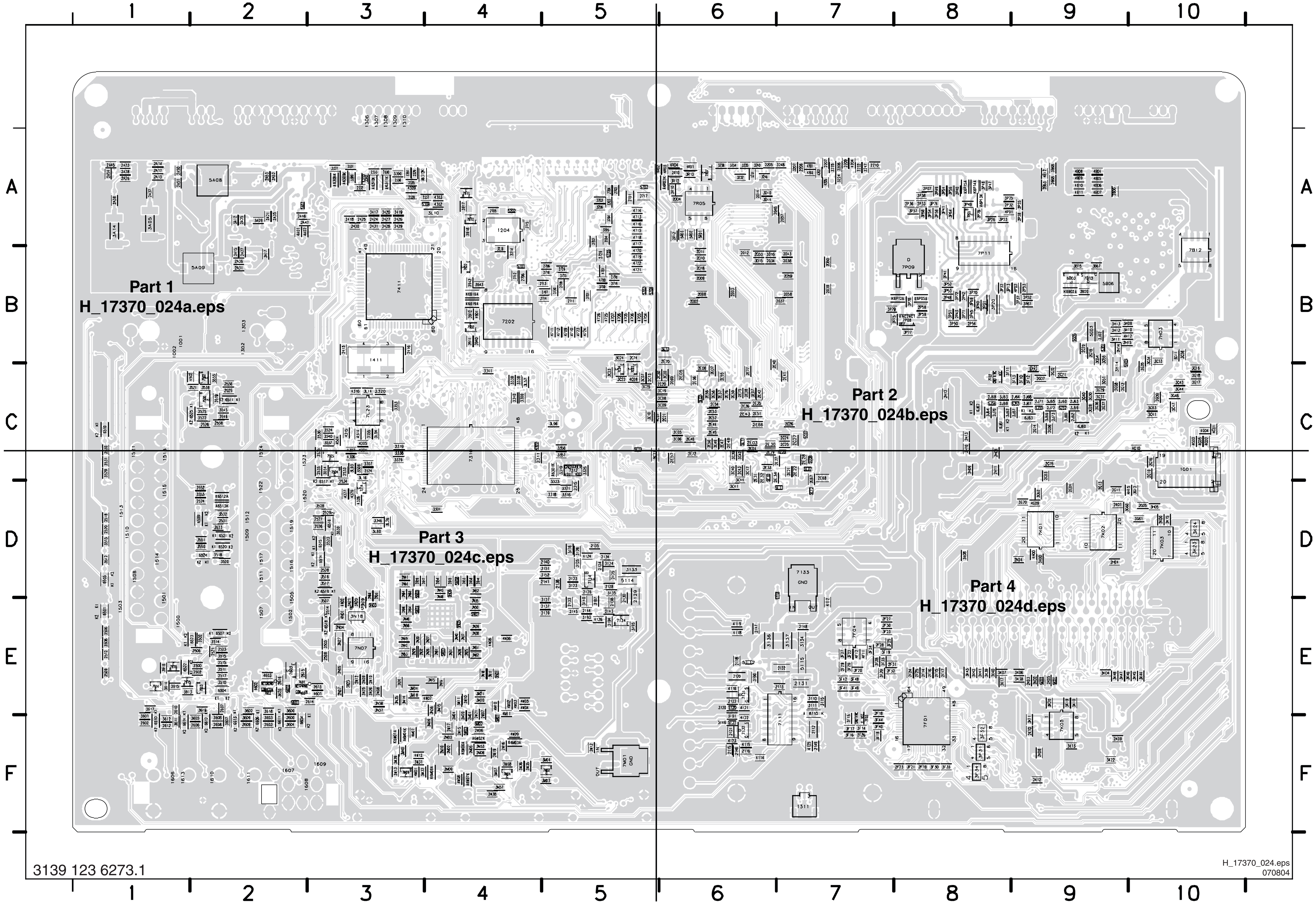
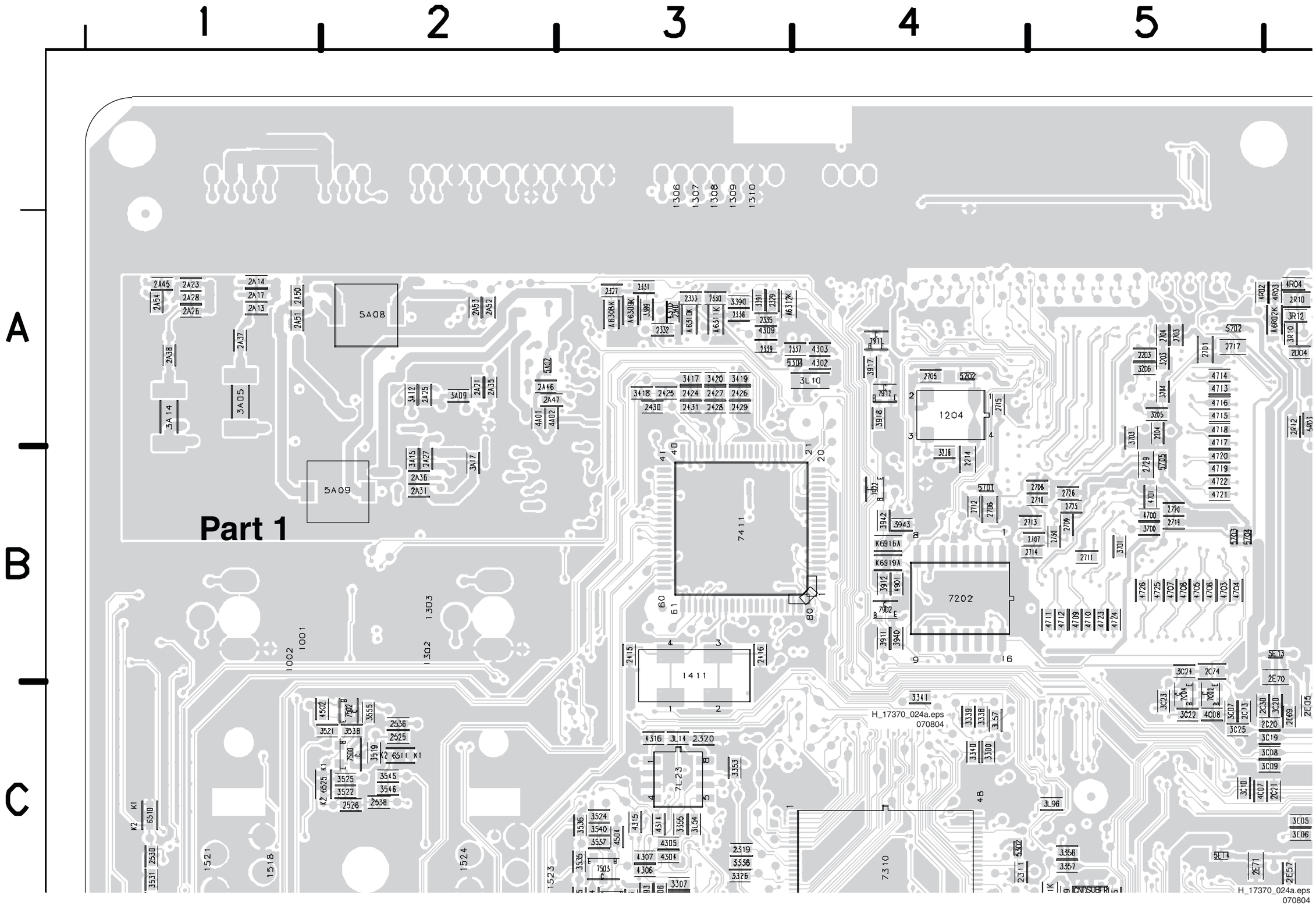
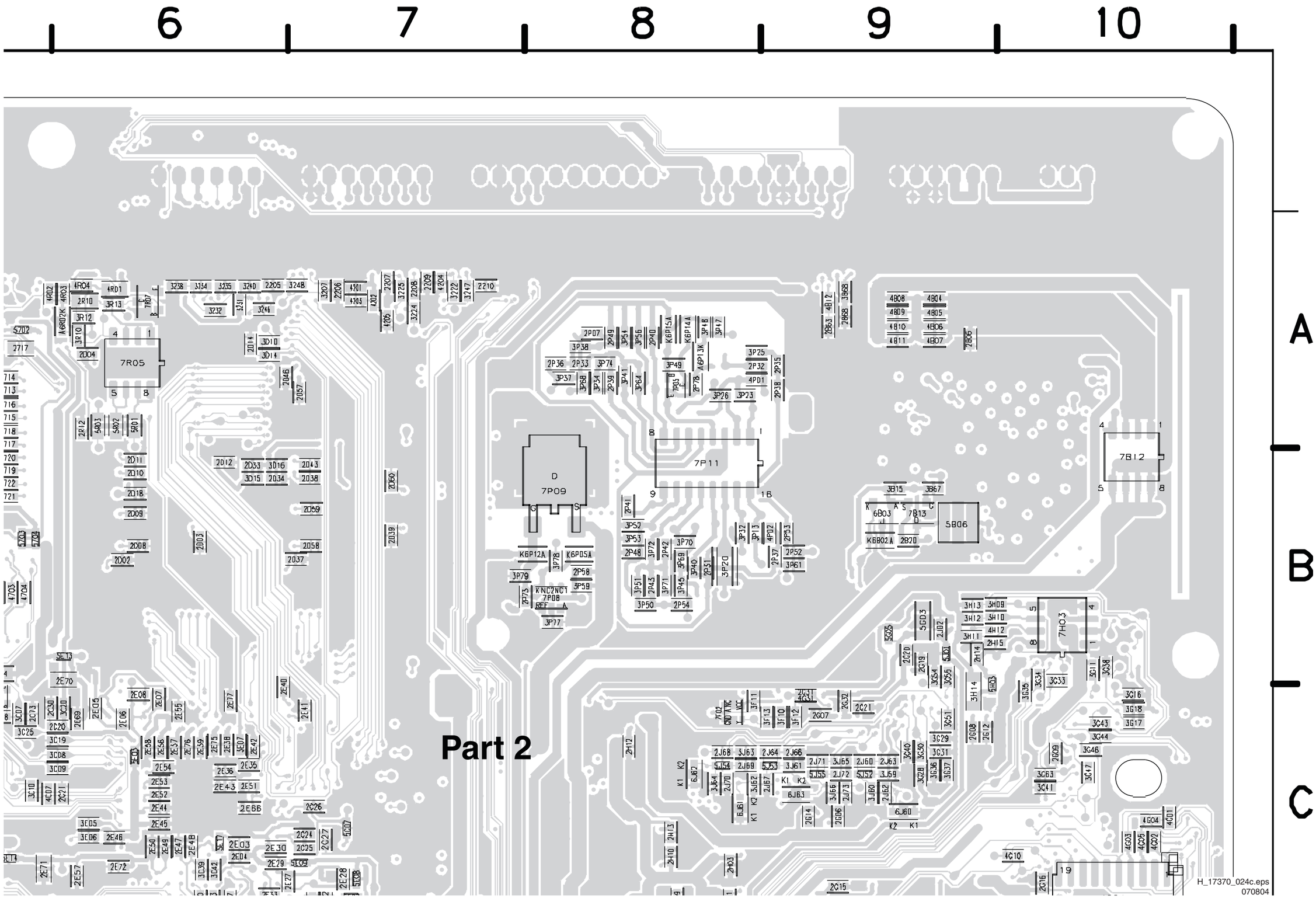
4H00	D9
4H12	B9
4H15	D10
4M01	F3
4M02	E4
4M03	E4
4M04	E4
4M05	E4
4M07	F3
4M08	F4
4M09	F4
4M10	E4
4M11	E4
4M12	F3
4N01	E3
4N02	E3
4N06	E4
4N07	E4
4N08	E4
4P01	A8
4P02	B9
4R01	A6
4R02	A5
4R03	A6
4R04	A6
5112	E6
5114	D5
5115	E7
5116	D5
5118	D7
5120	E6
5121	F6
5202	A4
5302	C4
5304	A4
5601	E2
5602	E2
5701	B4
5702	A5
5703	B5
5704	B5
5705	B5
5A07	A2
5A08	A2
5A09	B2
5B06	B9
5C07	C7
5E03	C6
5E07	C7
5E08	C7
5E09	C7
5E10	C6
5E11	D7
5E12	D7
5E13	B6
5E14	C5
5E17	C6
5G03	B9
5G05	B9
5H03	C9
5J01	B9
5J52	C9
5J53	C9
5J54	C8
5J55	C9
5K01	E9
5K02	E9
5M01	F4
5M02	F4
5M03	F4
5N01	E4
5N02	E4
5N03	E3
5N04	E3
5N05	E4
5N06	D4
5N07	E4
5N08	D4
5N09	D3
5R01	A6
5R02	A6
5R03	A6
6110	E7
6301	C5
6308	A3
6309	A3
6310	A3
6311	A3
6312	A3
6501	E1
6504	E2
6505	D1
6507	E2
6509	D2
6510	C1
6511	C2
6512	D2
6513	D2
6514	D3
6515	D3
6516	D3
6517	D3
6518	E3
6519	D3
6520	D2
6521	D2
6522	E1
6523	E2
6524	D2
6525	C2
6604	F2
6606	F2
6610	F1
6611	F2
6612	F2
6613	F2
6614	F1
6916	B4
6919	B4
6B02	B9
6B03	B9
6J60	C9
6J61	C8
6J62	C8
6J63	C9
6M01	F3
6M02	F4
6M03	F4
6M04	F3
6M06	F4
6M07	F4
6M08	F4
6P05	B8
6P12	B8
6P13	A8
6P14	A8
6P15	A8
6R02	A6
7111	F7
7114	D5
7131	E6
7132	F6
7133	D7
7134	E5
7202	B4
7310	C4
7312	C5
7314	D3
7411	B3
7500	C2
7502	C2
7503	C3
7504	C3
7601	E2
7602	E2
7603	E2
7902	B4
7911	A4
7912	A4
7913	E2
7914	E1
7915	E1
7916	E1
7922	B4
7B12	B10
7B13	B9
7C02	C5
7C04	C5
7F01	F8
7F02	C8
7F03	F7
7F04	E7
7H03	B10
7K01	D9
7K02	D9
7K03	D10
7K05	F9
7L23	C3
7M01	F5
7M02	F5
7M04	F4
7M09	F3
7N07	E3
7P05	A8
7P08	B8
7P09	B8
7P11	B8
7R05	A6
7R07	A6



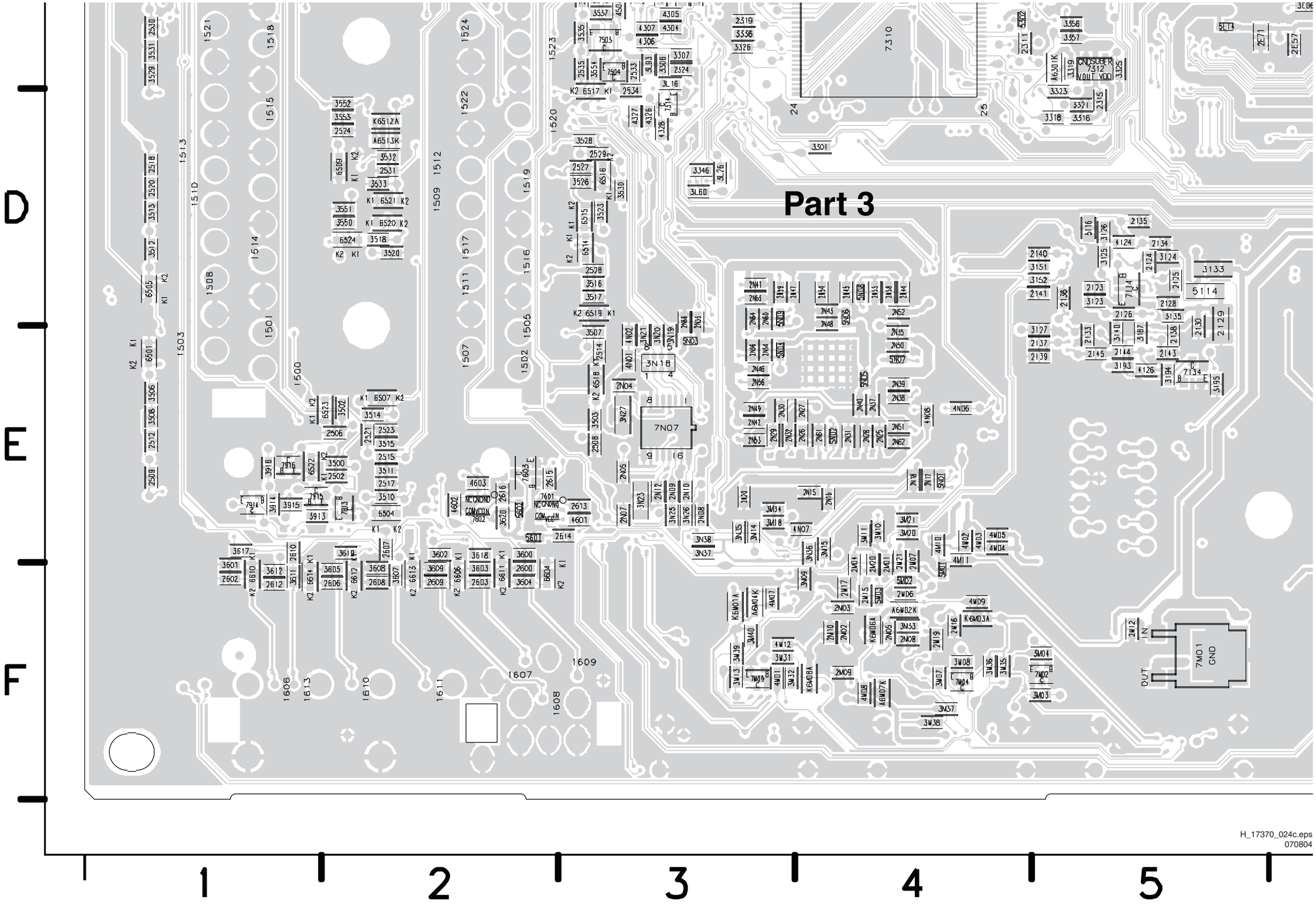
Layout SSB (Part 1 Bottom Side)



Layout SSB (Part 2 Bottom Side)



Layout SSB (Part 3 Bottom Side)



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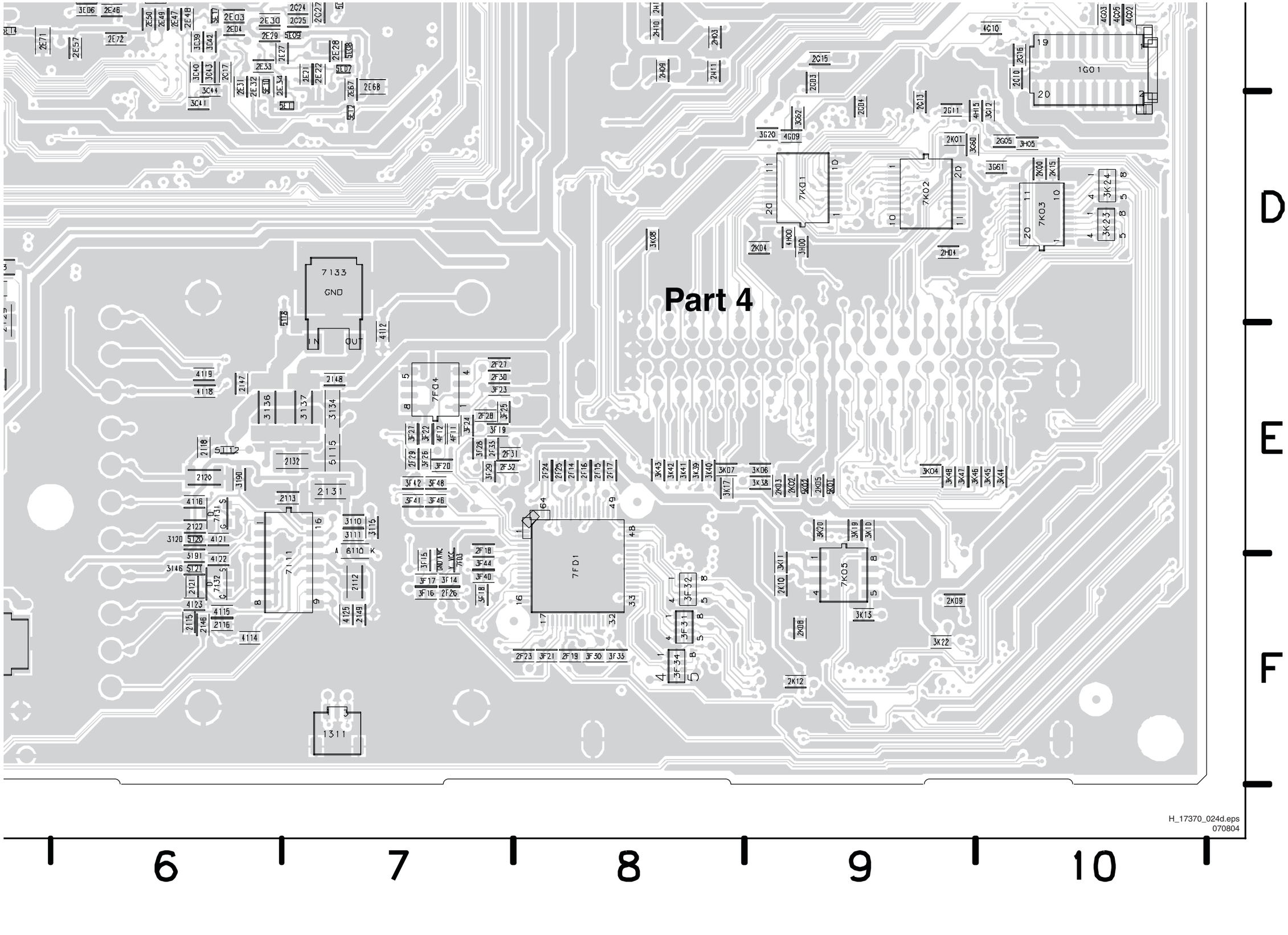
Layout SSB (Part 4 Bottom Side)



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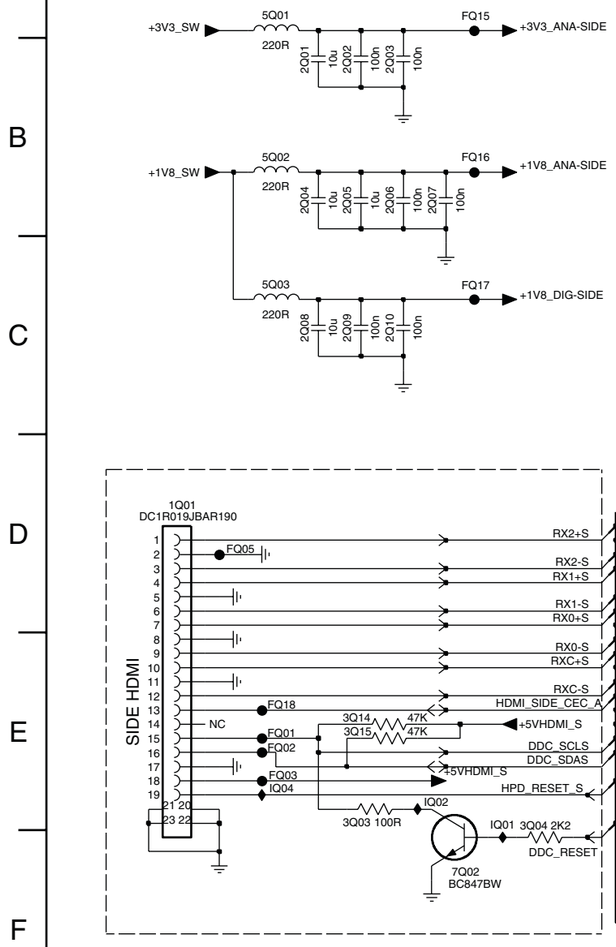
Side I/O Panel (32”): HDMI

D1 SIDE HDMI



1Q01 D1
1Q02 B8
1Q03 D8
2Q01 B2
2Q02 B2
2Q03 B2
2Q04 B2
2Q05 B2
2Q06 B2
2Q07 B2
2Q08 C2
2Q09 C2
2Q10 C2
2Q11 C6
3Q03 E2
3Q04 E3
3Q05 D4
3Q06 E4
3Q07 E4
3Q09 D3
3Q10 C7
3Q11 C7
3Q12 D3
3Q13 B6
3Q14 E2
3Q15 E2
3Q16 C7
4Q03 D6
5Q01 A1
5Q02 B1
5Q03 C1
6Q01 D6
6Q02 C6
7Q02 F2
7Q03-1 C4
7Q03-2 E10
FQ01 E1
FQ02 E1
FQ03 E1
FQ05 D1
FQ06 C8
FQ07 C8
FQ08 C8
FQ09 C8
FQ10 C8
FQ11 C8
FQ12 C8
FQ13 C8
FQ14 C8
FQ15 A2
FQ16 B2
FQ17 C2
FQ18 E1
IQ01 E3
IQ02 E2
IQ03 D6
IQ04 E1
IQ05 D4
IQ06 D4
IQ07 E4

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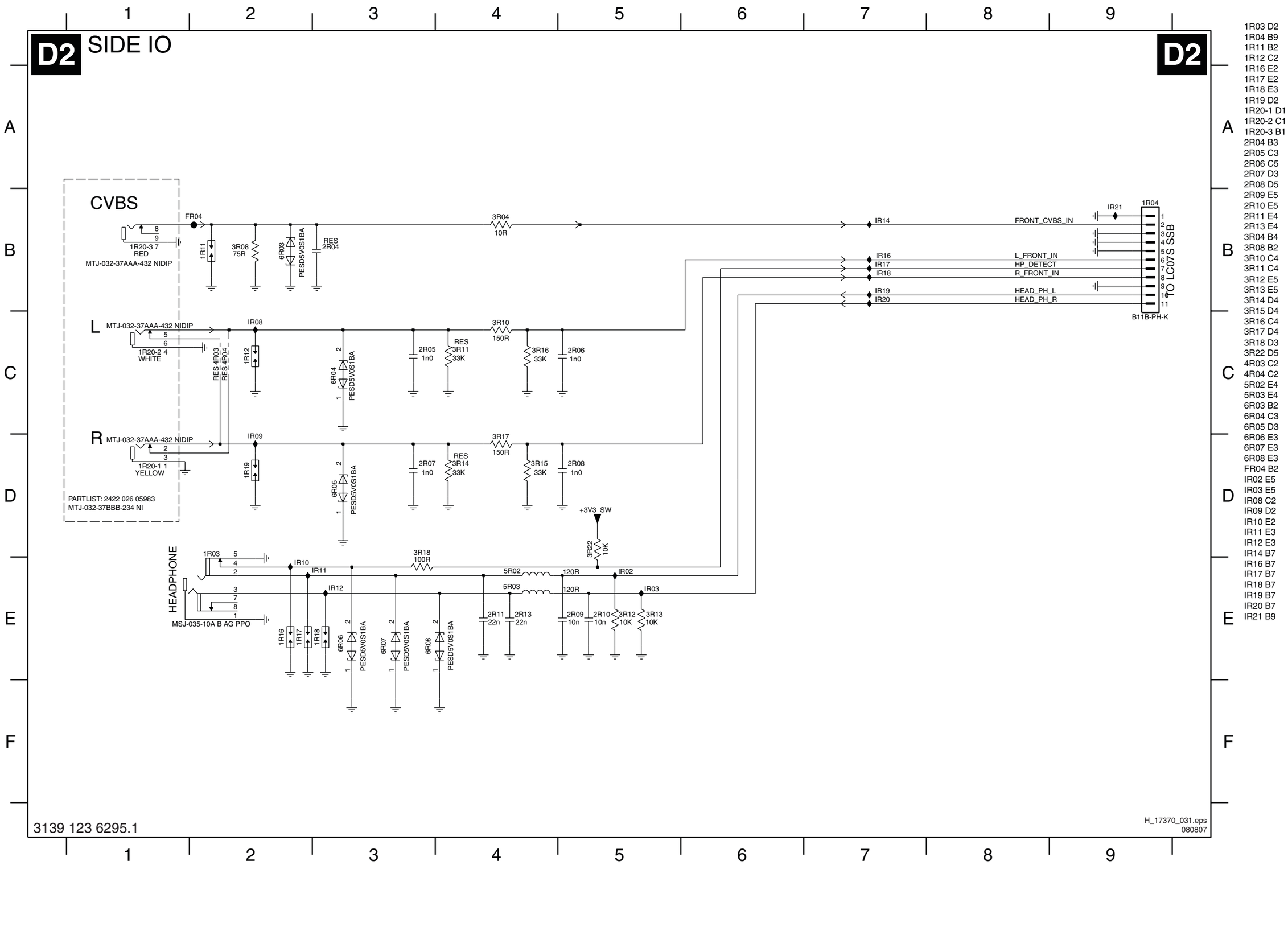
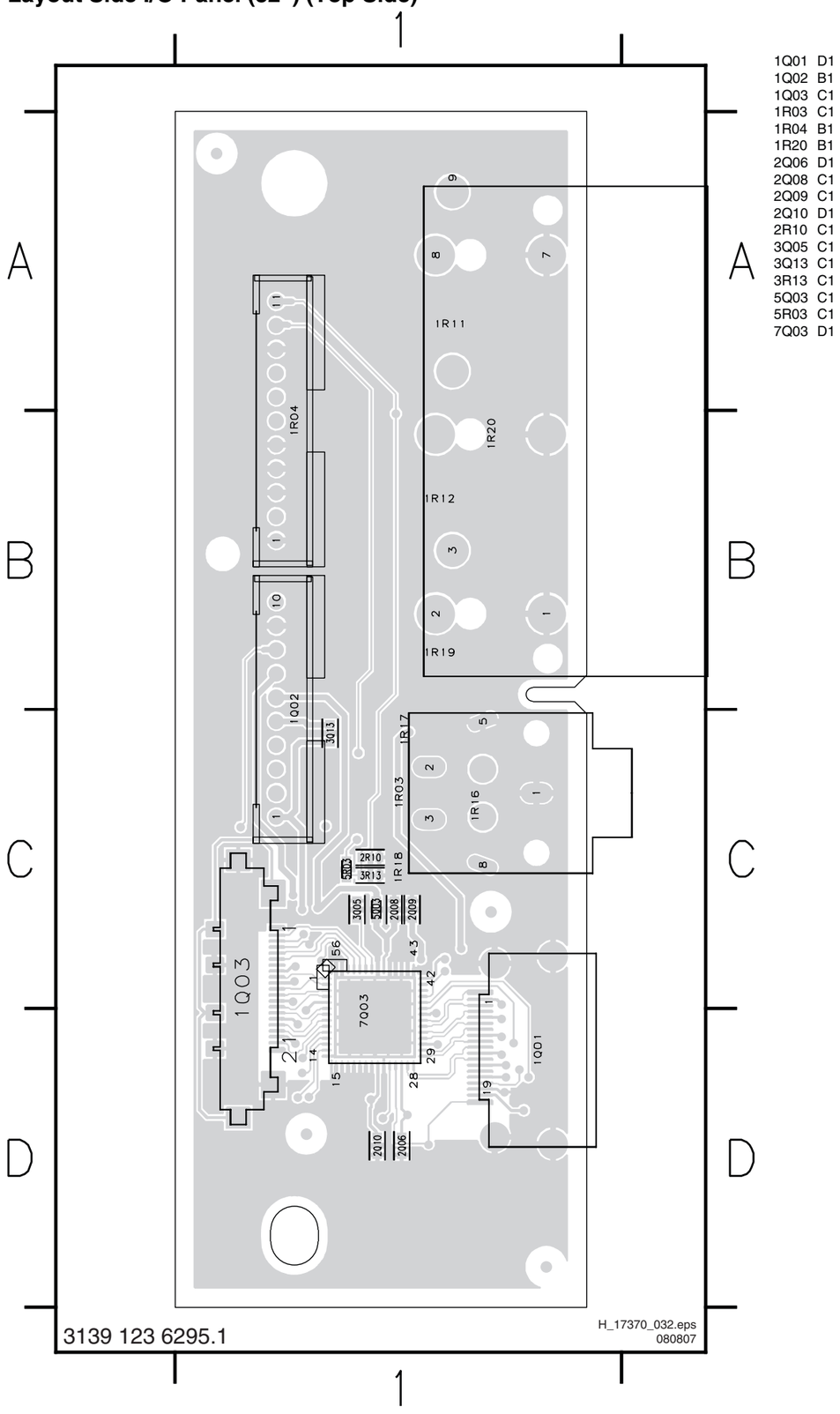
Side I/O Panel (32")

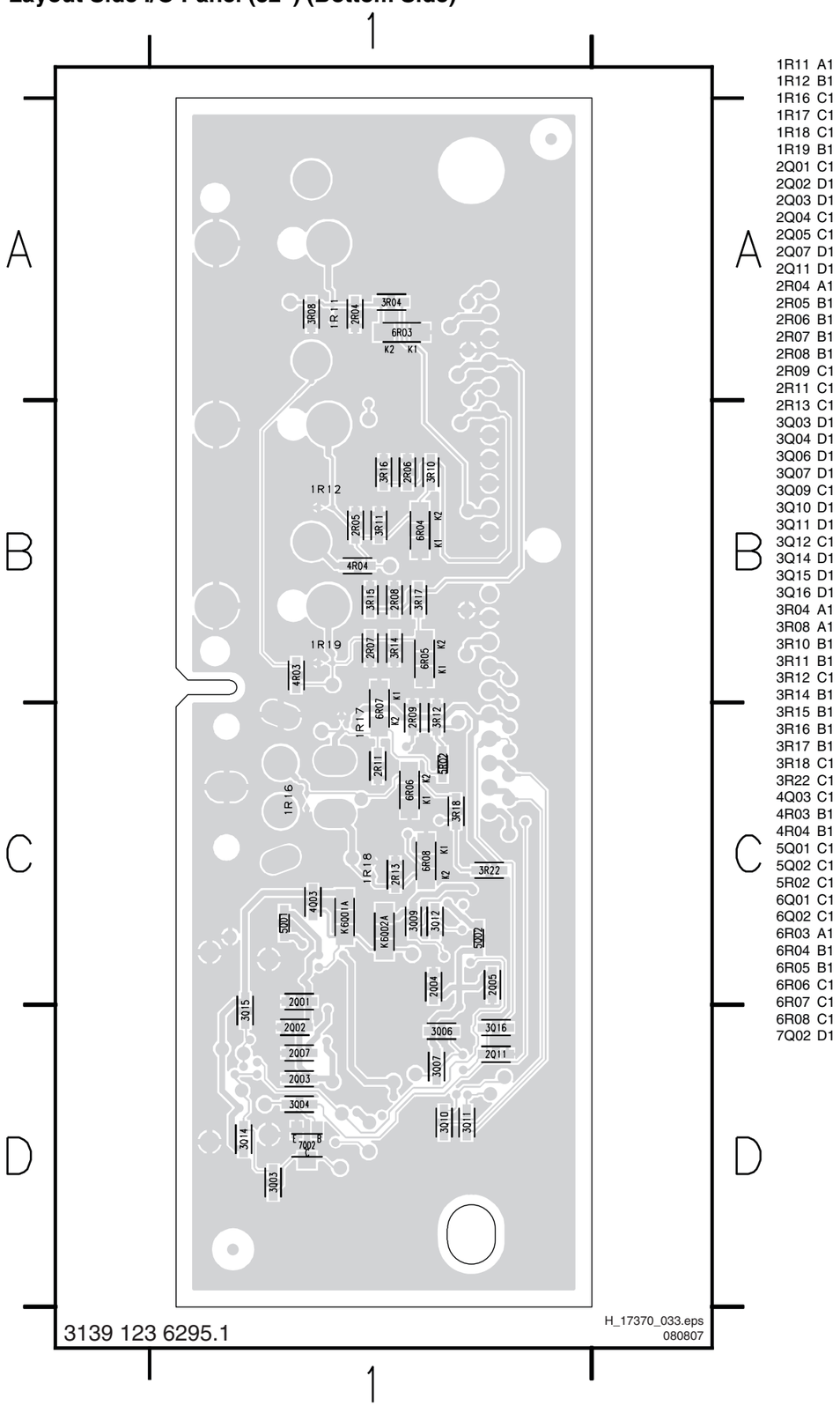


1R03 D2
1R04 B9
1R11 B2
1R12 C2
1R16 E2
1R17 E2
1R18 E3
1R19 D2
1R20-1 D1
1R20-2 C1
1R20-3 B1
2R04 B3
2R05 C3
2R06 C5
2R07 D3
2R08 D5
2R09 E5
2R10 E5
2R11 E4
2R13 E4
3R04 B4
3R08 B2
3R10 C4
3R11 C4
3R12 E5
3R13 E5
3R14 D4
3R15 D4
3R16 C4
3R17 D4
3R18 D3
3R22 D5
4R03 C2
4R04 C2
5R02 E4
5R03 E4
6R03 B2
6R04 C3
6R05 D3
6R06 E3
6R07 E3
6R08 E3
FR04 B2
IR02 E5
IR03 E5
IR08 C2
IR09 D2
IR10 E2
IR11 E3
IR12 E3
IR14 B7
IR16 B7
IR17 B7
IR18 B7
IR19 B7
IR20 B7
IR21 B9

Layout Side I/O Panel (32”) (Top Side)



Layout Side I/O Panel (32”) (Bottom Side)



Side I/O Panel (42” & 52”): HDMI

D1 SIDE HDMI

D1

+3V3_SW 5Q01 220R FQ15 +3V3_ANA-SIDE
2Q01 10u 2Q02 100n 2Q03 100n

+1V8_SW 5Q02 220R FQ16 +1V8_ANA-SIDE
2Q04 10u 2Q05 10u 2Q06 100n 2Q07 100n

5Q03 220R FQ17 +1V8_DIG-SIDE
2Q08 10u 2Q09 100n 2Q10 100n

1Q01 DC1R019JBAR190
FQ05
RX2+S RX2-S RX1+S RX1-S RX0+S RX0-S RXC+S RXC-S
FQ18 NC FQ01 FQ02 FQ03 IQ04
HDMI_SIDE_CEC_A
3Q14 47K 3Q15 47K
+5VHDMI_S
DDC_SCLS DDC_SDAS
+5VHDMI_S
HPD_RESET_S
3Q03 100R IQ02
IQ01 3Q04 2K2 DDC_RESET
7Q02 BC847BW
SIDE HDMI

+5V_SW 3Q09 4K7
+5VHDMI_SIDE_TPWR
RES 3Q12 4K7
3Q05 4K7

+3V3_SW 3Q13 4K7

7Q03-1 SII9181CNU
+3V3_ANA-SIDE +1V8_ANA-SIDE +1V8_DIG-SIDE
AVCC33 AVCC18 AVCC18 DVCC18
RESET LSDA EPSEL0 EPSEL1 LSCL I2CADDR TPWR I2CSEL INT RSVDL
IQ05 IQ06
Φ HDMI BUFFER
RX: RXC+S RXC-S RX0+S RX0-S RX1+S RX1-S RX2+S RX2-S
+1V8_ANA-SIDE 3Q06 1K0 EXT_SWING
3Q07 1K0 IQ07
AGND AGND GND_HS DGND

+5V_SW 2Q11 1n0
6Q02 BAT54 COL RES
CEC NC NC
DSCL DSDA RPWR HPD HPDIN TSCL TSDA
DDC_SCLS DDC_SDAS +5VHDMI_S
IQ03 4Q03 5Q01 BAT54 COL RES HPD_RESET_S
HDMI_HOTPLUG_RESET
HDMI_SIDE_TSCL HDMI_SIDE_TSDA
TX: HDMI_SIDE_TXC+ HDMI_SIDE_TXC- HDMI_SIDE_TX0+ HDMI_SIDE_TX0- HDMI_SIDE_TX1+ HDMI_SIDE_TX1- HDMI_SIDE_TX2+ HDMI_SIDE_TX2-

HDMI_INT_SIDE
3Q10 100R IIC_SC
3Q11 100R IIC_SDA
3Q16 330R HDMI_RST_RX_BUF
+3V3_SW +1V8_SW +5V_SW DDC_RESET
1Q02 FQ06 FQ07 FQ08 FQ09 FQ10 FQ11 FQ12 FQ13 FQ14 NC
B10P-PH-K-S
HDMI-SIDE FROM SSB

1Q03 FI-RE21S-HF-R1500
HDMI_HOTPLUG_RESET +5VHDMI_SIDE_TPWR HDMI_SIDE_TSDA HDMI_SIDE_TSCL HDMI_SIDE_CEC_A HDMI_SIDE_TX2+ HDMI_SIDE_TX2- HDMI_SIDE_TX1+ HDMI_SIDE_TX1- HDMI_SIDE_TX0+ HDMI_SIDE_TX0- HDMI_SIDE_TXC+ HDMI_SIDE_TXC- NC
HDMI-SIDE TO SSB

7Q03-2 SII9181CNU
GND_VIA GND_VIA GND_VIA

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1Q01 D1
1Q02 B8
1Q03 D8
2Q01 B2
2Q02 B2
2Q03 B2
2Q04 B2
2Q05 B2
2Q06 B2
2Q07 B2
2Q08 C2
2Q09 C2
2Q10 C2
2Q11 C7
3Q03 E2
3Q04 E3
3Q05 D4
3Q06 E4
3Q07 E4
3Q09 D4
3Q10 C7
3Q11 C7
3Q12 D3
3Q13 B6
3Q14 E2
3Q15 E2
3Q16 C7
4Q03 D6
5Q01 A1
5Q02 B1
5Q03 C1
6Q01 D6
6Q02 C6
7Q02 F2
7Q03-1 C4
7Q03-2 E10
FQ01 E1
FQ02 E1
FQ03 E1
FQ05 D1
FQ06 B8
FQ07 C8
FQ08 C8
FQ09 C8
FQ10 C8
FQ11 C8
FQ12 C8
FQ13 C8
FQ14 C8
FQ15 A2
FQ16 B2
FQ17 C2
FQ18 E1
IQ01 E3
IQ02 E2
IQ03 D6
IQ04 E1
IQ05 D4
IQ06 D4
IQ07 F4

Side I/O Panel (42” & 52”)

D2 SIDE IO

CVBS

FR04

1R20-3 7 RED

MTJ-032-37AAA-432 NIDIP

1R11 3R08 75R 6R03 PESD5V0S1BA RES 2R04 3R04 10R

IR14 FRONT_CVBS_IN

L MTJ-032-37AAA-432 NIDIP

1R20-2 4 WHITE

IR08 1R12 RES 4R03 RES 4R04 6R04 PESD5V0S1BA 2R05 1n0 RES 3R11 33K 3R10 150R 3R16 33K 2R06 1n0

IR16 L_FRONT_IN

IR17 HP_DETECT

IR18 R_FRONT_IN

IR19 HEAD_PH_L

IR20 HEAD_PH_R

IR21 1R04 TO LC07S SSB B11B-PH-K

R MTJ-032-37AAA-432 NIDIP

1R20-1 1 YELLOW

IR09 1R19 6R05 PESD5V0S1BA 2R07 1n0 RES 3R14 33K 3R17 150R 3R15 33K 2R08 1n0

PARTLIST: 2422 026 05983
MTJ-032-37BBB-234 NI

+3V3_SW 3R22 10K

HEADPHONE 1R03 MSJ-035-10A B AG PPO

IR10 IR11 IR12 3R18 100R 5R02 120R 5R03 120R IR02 IR03

1R16 1R17 1R18 6R06 PESD5V0S1BA 6R07 PESD5V0S1BA 6R08 PESD5V0S1BA 2R11 22n 2R13 22n 2R09 10n 2R10 10n 3R12 10K 3R13 10K

+5V_SW 4R12

+5V_USB

1R07 USB 5401-032-100-70

D- D+ USB_GND

IR25 IR26 IR27 IR28

4R11 4R09 4R10

IR31 IIC_SCL

IR32 IIC_SDA

1R06 TO BOLT-ON USB B7B-PH-K

4R05 1R15 1R14 1R13

+5V_SW 2R17 10u 2R18 100n 3R20 RES 3R21 0R

7R02 TPS2041BD EN_ IN GND OC_ OUT NC

5R01 220R +5V_USB 2R12 100u 16V 2R19 100n

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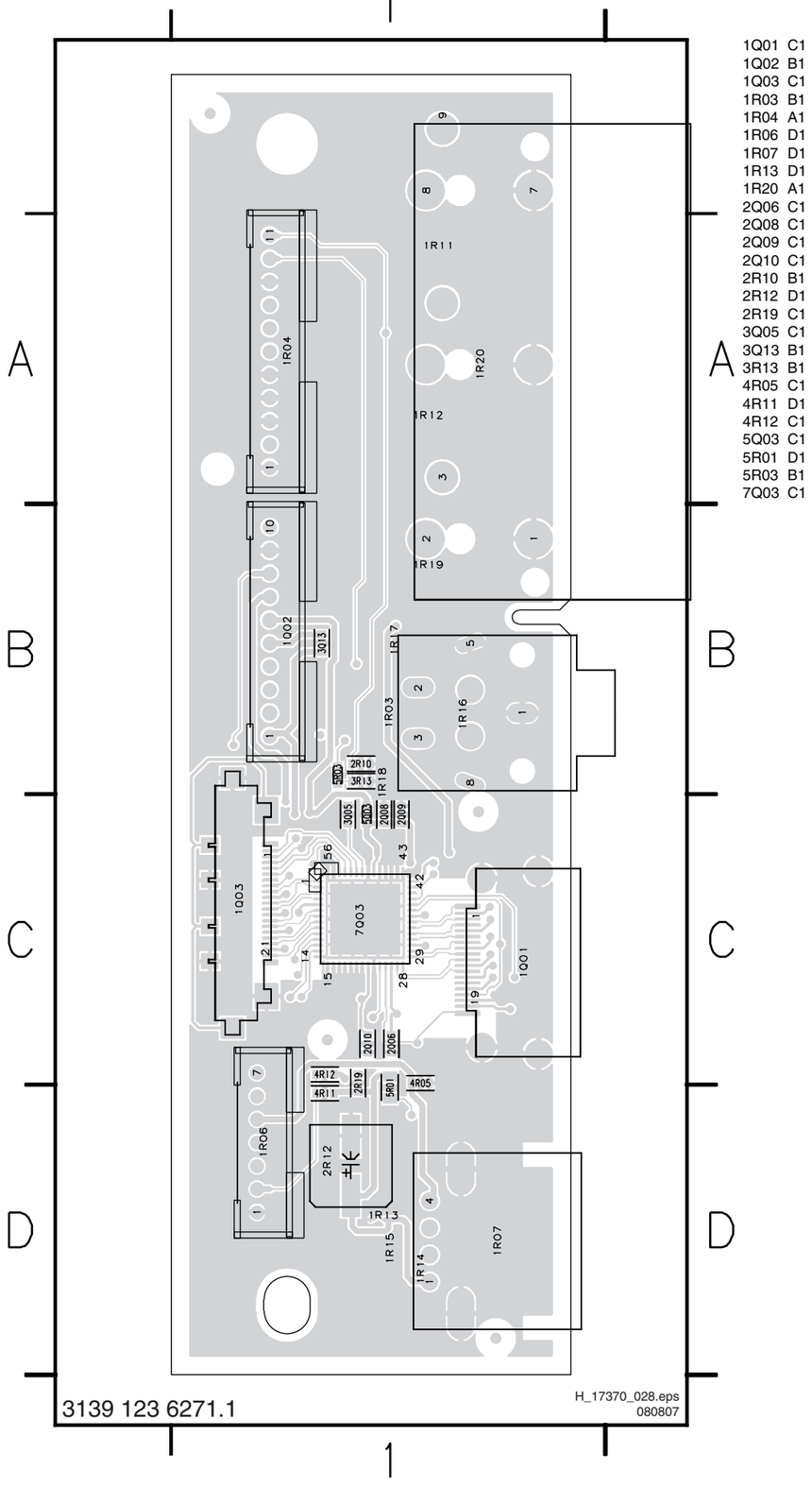
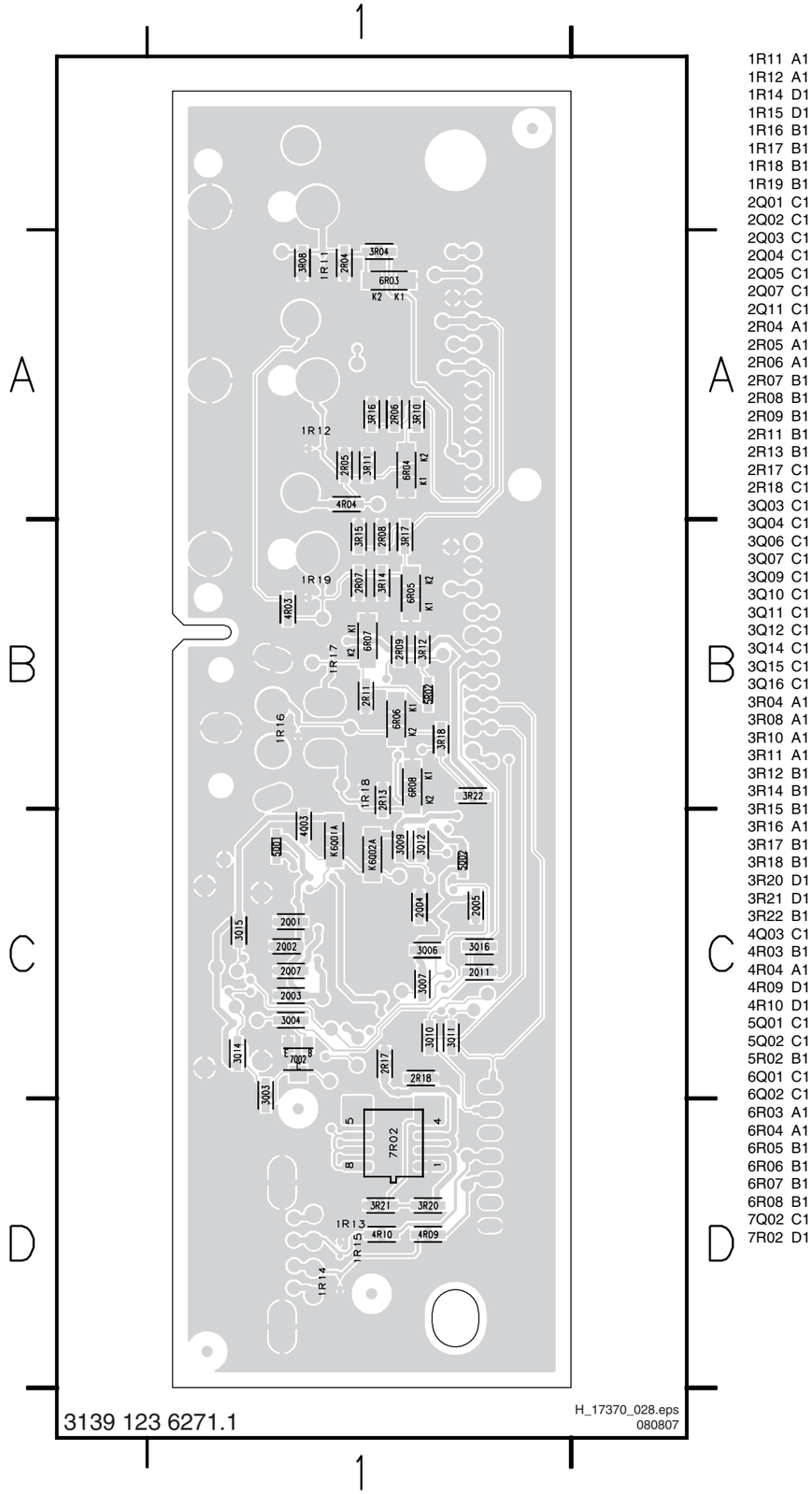
1R03 D2
1R04 B10
1R06 C9
1R07 C7
1R11 B2
1R12 C2
1R13 D8
1R14 D8
1R15 D8
1R16 E2
1R17 E3
1R18 E3
1R19 D2
1R20-1 D1
1R20-2 C1
1R20-3 B1
2R04 B3
2R05 C4
2R06 C5
2R07 D4
2R08 D5
2R09 E5
2R10 E5
2R11 E4
2R12 F10
2R13 E4
2R17 E8
2R18 E8
2R19 F10
3R04 B4
3R08 B2
3R10 B4
3R11 C4
3R12 E5
3R13 E5
3R14 D4
3R15 D5
3R16 C5
3R17 C4
3R18 D4
3R20 E8
3R21 F8
3R22 D5
4R03 C2
4R04 C2
4R05 D8
4R09 C9
4R10 D9
4R11 C9
4R12 C9
5R01 E9
5R02 E4
5R03 E4
6R03 B2
6R04 C3
6R05 D3
6R06 E3
6R07 E3
6R08 E4
7R02 E9
FR04 B2
IR02 D5
IR03 E5
IR08 B2
IR09 C2
IR10 D3
IR11 D3
IR12 E3
IR14 B7
IR16 B7
IR17 B7
IR18 B7
IR19 B7
IR20 B7
IR21 B9
IR25 C8
IR26 C8
IR27 C8
IR28 D8
IR31 C9
IR32 C9

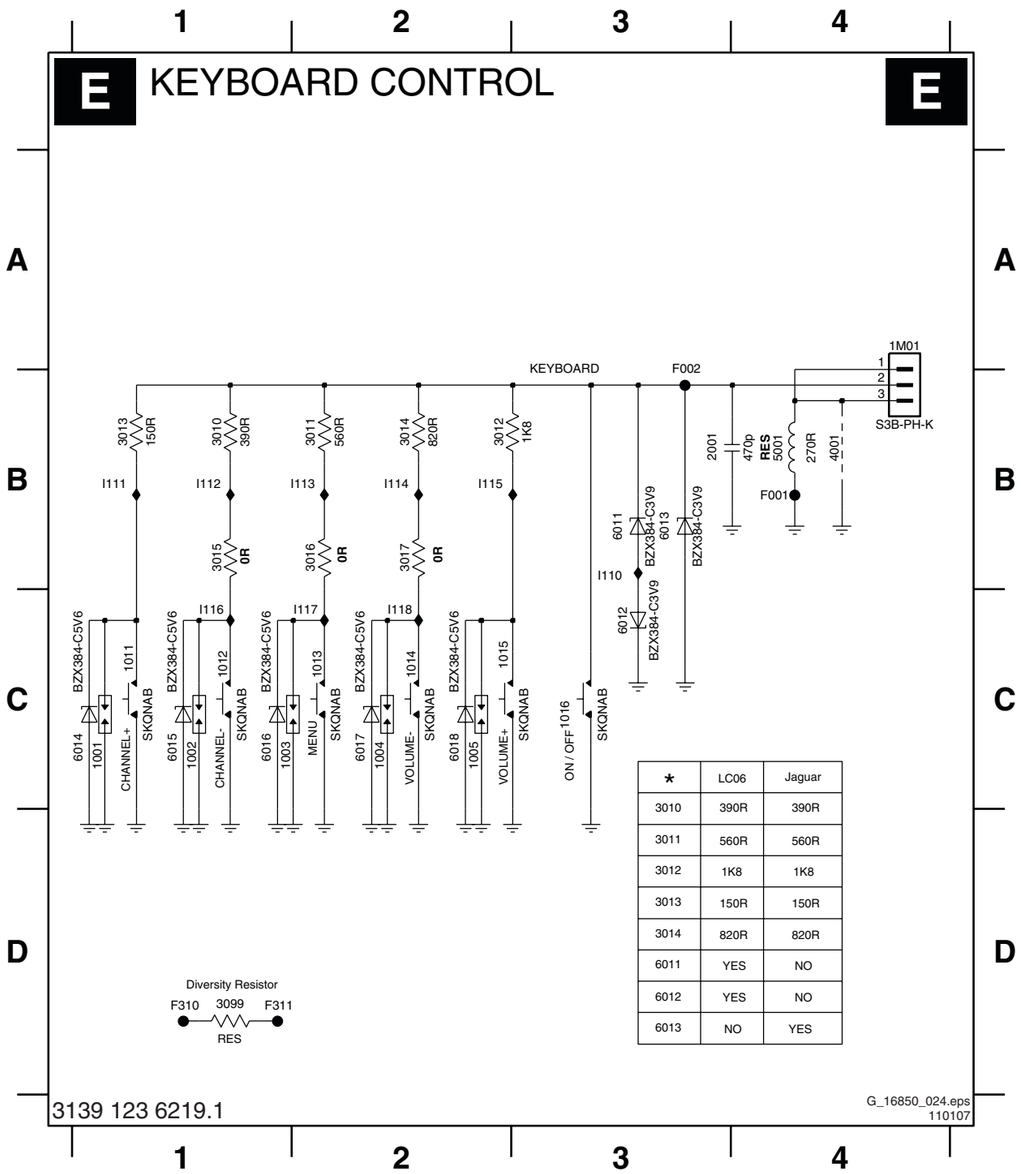
Layout Side I/O Panel (42” & 52”) (Top Side)



Layout Side I/O Panel (42” & 52”) (Bottom Side)



Keyboard Control Panel



*	LC06	Jaguar
3010	390R	390R
3011	560R	560R
3012	1K8	1K8
3013	150R	150R
3014	820R	820R
6011	YES	NO
6012	YES	NO
6013	NO	YES

1001 C1
1002 C1
1003 C1
1004 C2
1005 C2
1011 C1
1012 C1
1013 C2
1014 C2
1015 C2
1016 C3
1M01 A4
2001 B3
3010 B1
3011 B2
3012 B2
3013 B1
3014 B2
3015 B1
3016 B2
3017 B2
3099 D1
4001 B4
5001 B4
6011 B3
6012 C3
6013 B3
6014 C1
6015 C1
6016 C1
6017 C2
6018 C2
F001 B4
F002 B3
F310 D1
F311 D1
I110 B3
I111 B1
I112 B1
I113 B2
I114 B2
I115 B2
I116 C1
I117 C2
I118 C2

Personal Notes:

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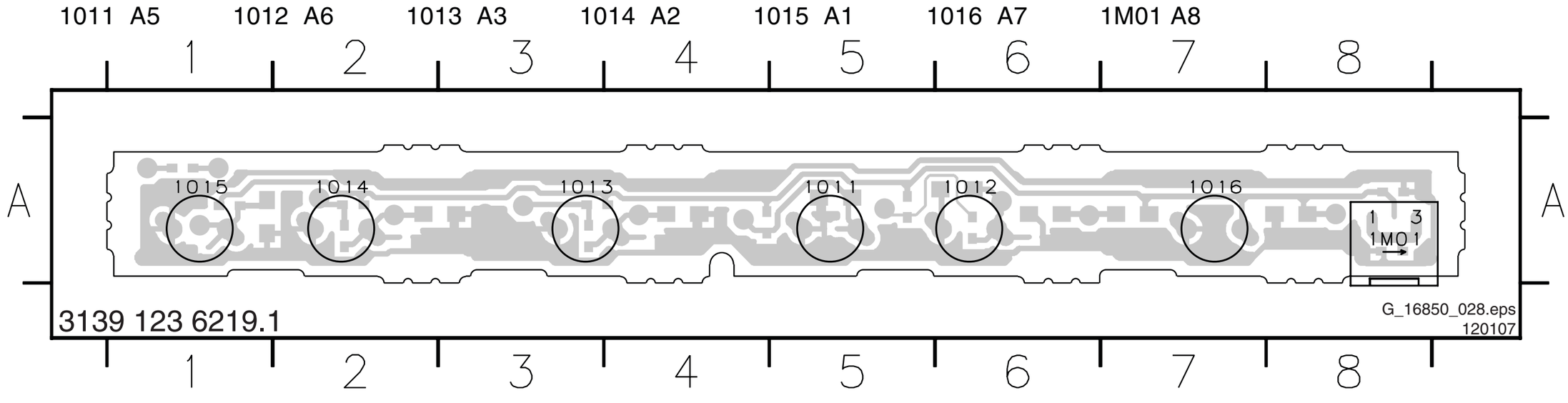
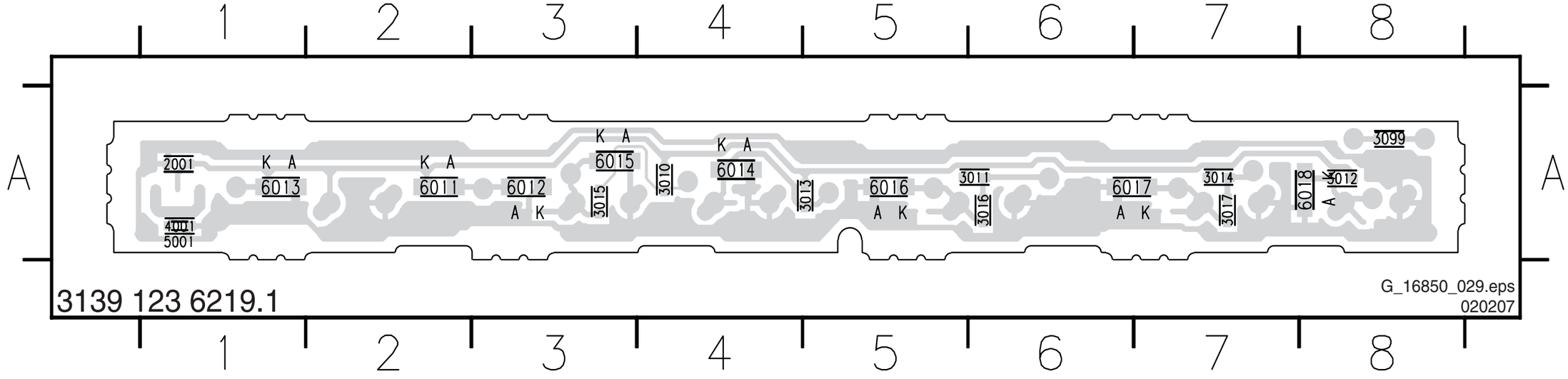
131004

Layout Keyboard Control Panel (Top Side)

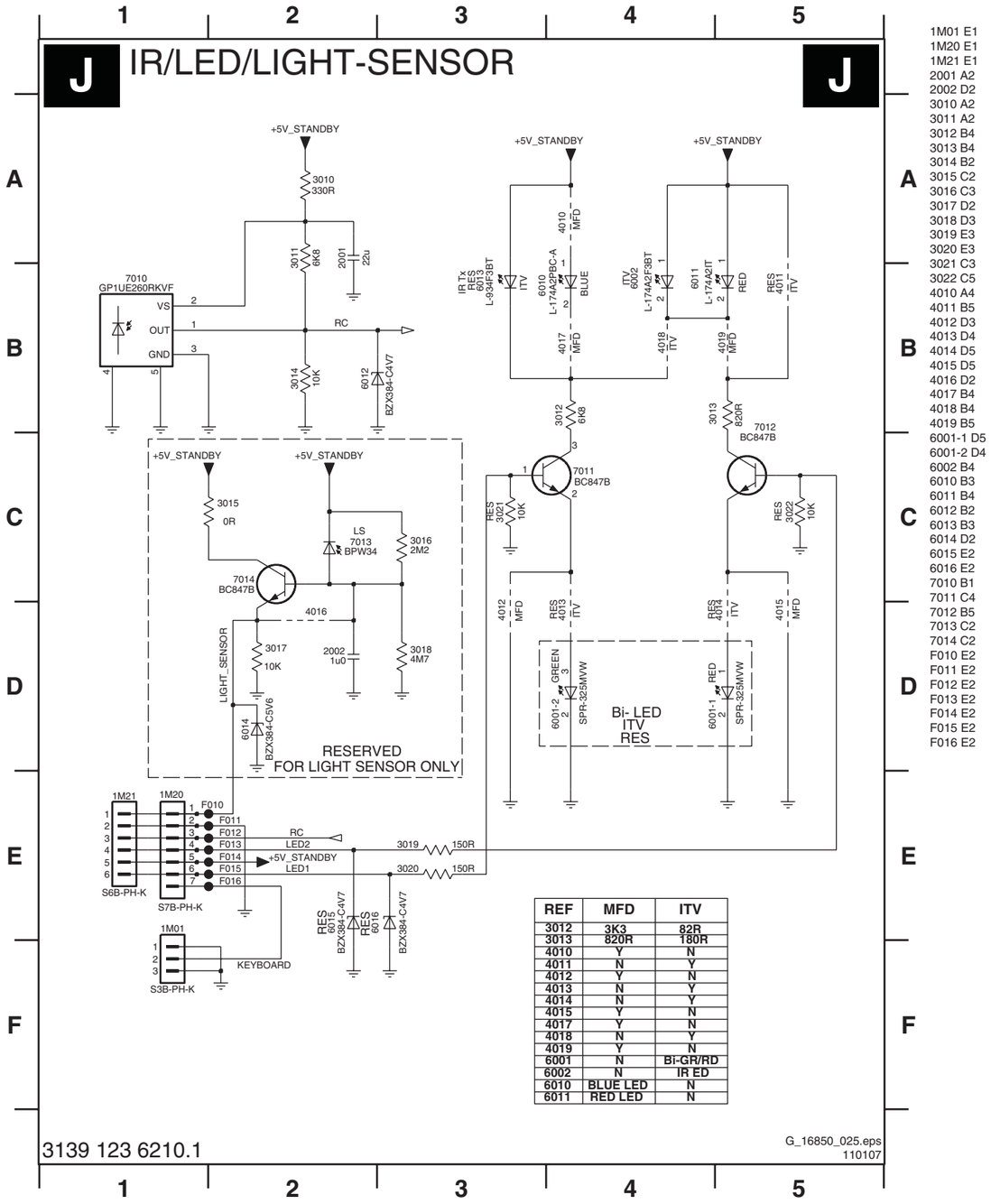


Layout Keyboard Control Panel (Bottom Side)

2001 A1 3011 A6 3013 A5 3015 A3 3017 A7 4001 A1 6011 A2 6013 A1 6015 A3 6017 A6
3010 A4 3012 A8 3014 A7 3016 A6 3099 A8 5001 A1 6012 A3 6014 A4 6016 A5 6018 A8



Front IR / LED Panel



REF	MFD	ITV
3012	3K3	82R
3013	820R	180R
4010	Y	N
4011	N	Y
4012	Y	N
4013	N	Y
4014	N	Y
4015	Y	N
4017	Y	N
4018	N	Y
4019	Y	N
6001	N	Bi-GR/RD
6002	N	IR ED
6010	BLUE LED	N
6011	RED LED	N

1M01 E1
1M20 E1
1M21 E1
2001 A2
2002 D2
3010 A2
3011 A2
3012 B4
3013 B4
3014 B2
3015 C2
3016 C3
3017 D2
3018 D3
3019 E3
3020 E3
3021 C3
3022 C5
4010 A4
4011 B5
4012 D3
4013 D4
4014 D5
4015 D5
4016 D2
4017 B4
4018 B4
4019 B5
6001-1 D5
6001-2 D4
6002 B4
6010 B3
6011 B4
6012 B2
6013 B3
6014 D2
6015 E2
6016 E2
7010 B1
7011 C4
7012 B5
7013 C2
7014 C2
F010 E2
F011 E2
F012 E2
F013 E2
F014 E2
F015 E2
F016 E2

Personal Notes:

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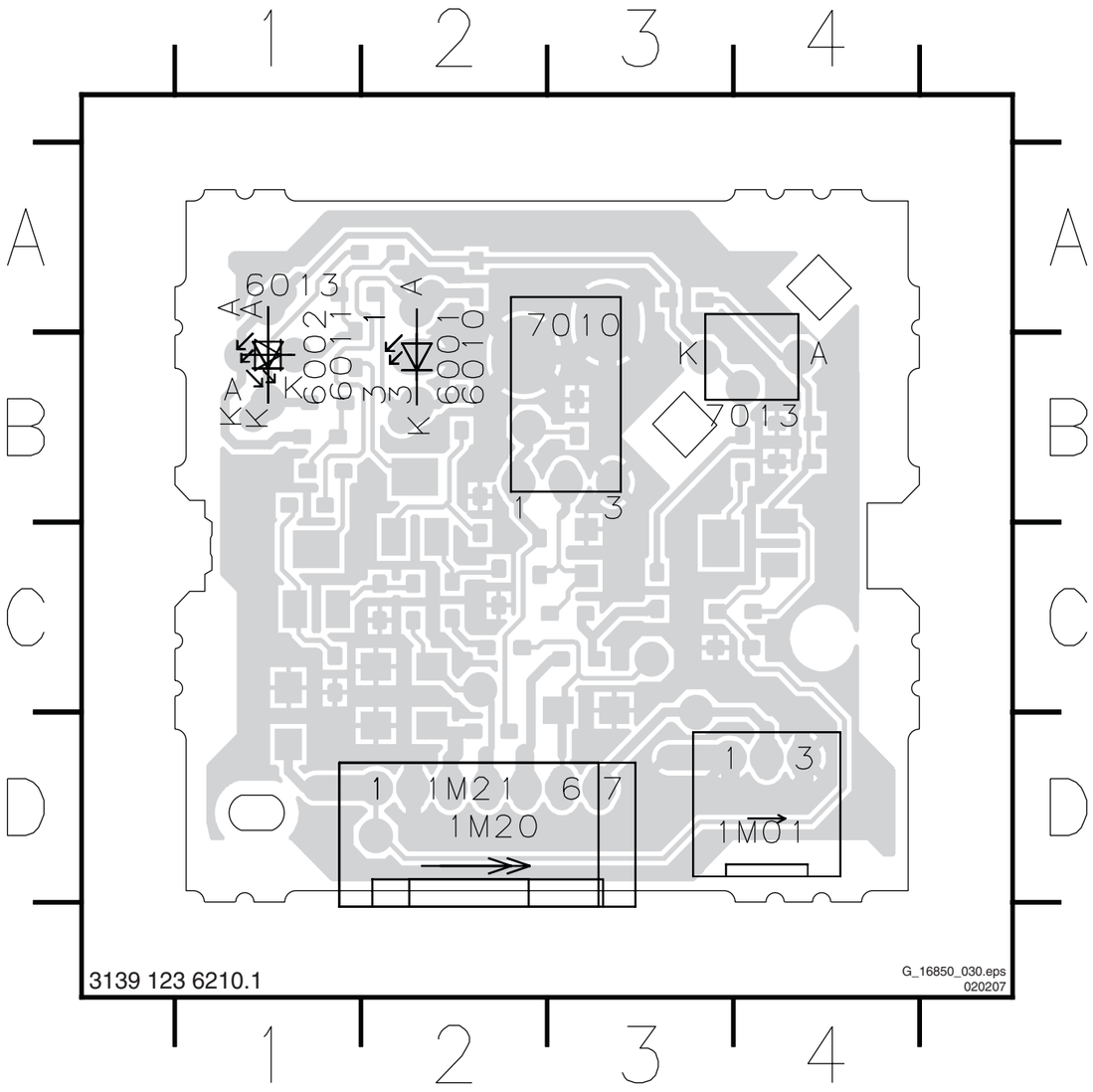
131004

Layout Front IR / LED Panel (Top Side)

1M01	D4	6001	B2	6011	B1	7013	B4
1M20	D2	6002	B1	6013	A1		
1M21	D2	6010	B2	7010	A3		



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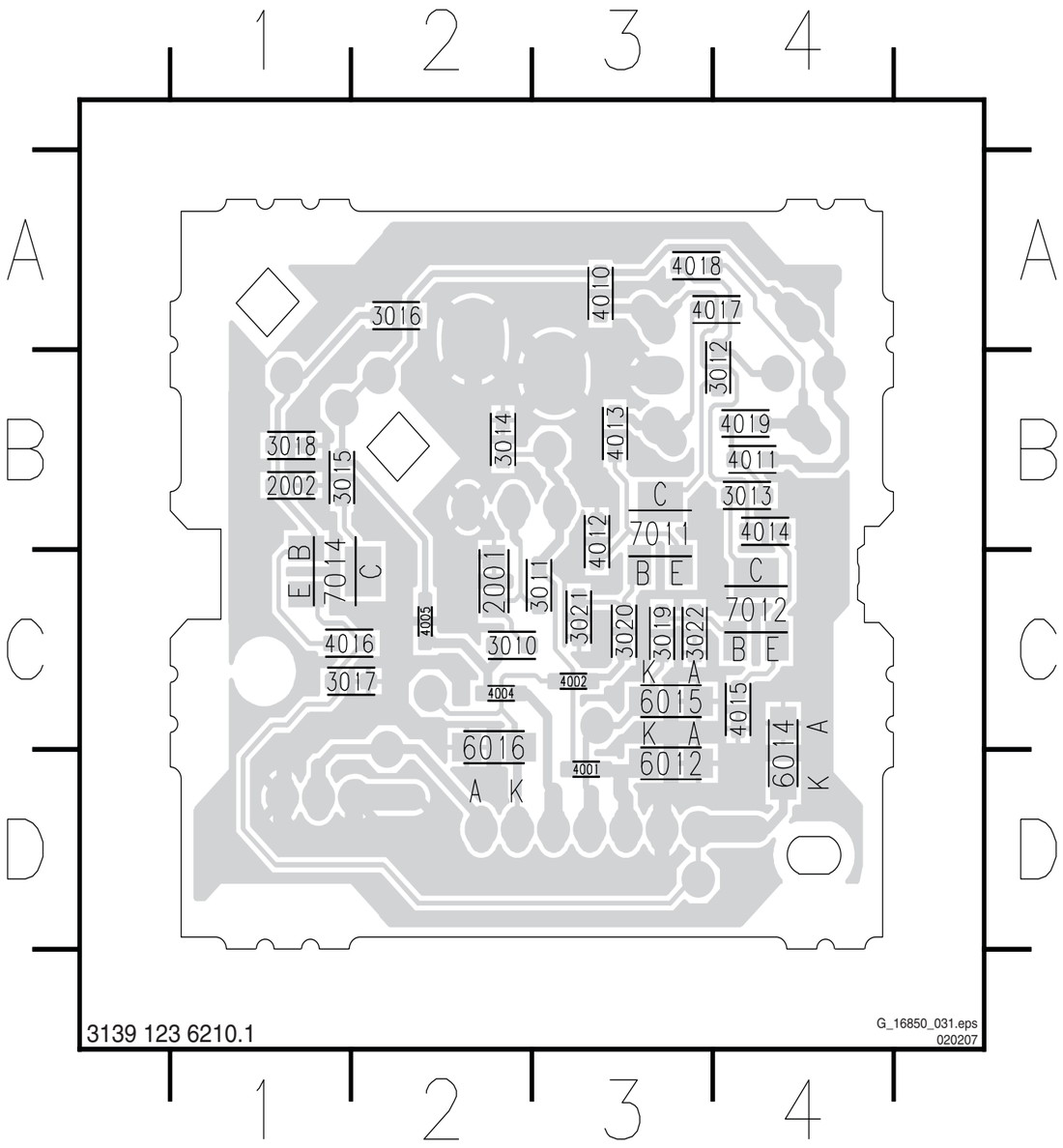
Layout Front IR / LED Panel (Bottom Side)

2001	C2	3014	B2	3020	C3	4005	C2	4015	C4	6014	D4
2002	B1	3015	B1	3021	C3	4010	A3	4016	C1	6015	C3
3010	C2	3016	A2	3022	C3	4011	B4	4017	A4	6016	C2
3011	C3	3017	C1	4001	D3	4012	B3	4018	A3	7011	B3
3012	B4	3018	B1	4002	C3	4013	B3	4019	B4	7012	C4
3013	B4	3019	C3	4004	C2	4014	B4	6012	D3	7014	C1



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8. Alignments

Index of this chapter:
8.1 General Alignment Conditions
8.2 Hardware Alignments
8.3 Software Alignments
8.4 Option Settings

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:
- Power supply voltage (depends on region):
  - AP-NTSC: 120 V_{AC} or 230 V_{AC} / 50 Hz (± 10%).
  - AP-PAL-multi: 120 - 230 V_{AC} / 50 Hz (± 10%).
  - EU: 230 V_{AC} / 50 Hz (± 10%).
  - LATAM-NTSC: 120 - 230 V_{AC} / 50 Hz (± 10%).
  - US: 120 V_{AC} / 60 Hz (± 10%).
- Connect the set to the mains via an isolation transformer with low internal resistance.
- Allow the set to warm up for approximately 15 minutes.
- Measure voltages and waveforms in relation to correct ground (e.g. measure audio signals in relation to AUDIO_GND).
  Caution: It is not allowed to use heatsinks as ground.
- Test probe: Ri > 10 Mohm, Ci < 20 pF.
- Use an isolated trimmer/screwdriver to perform alignments.

8.2 Hardware Alignments

There are no hardware alignments foreseen for this chassis, but below find an overview of the most important DC voltages on the SSB. These can be used for checking proper functioning of the DC/DC converters.

Description	Test Point	Specifications (V)			Diagram
		Min.	Typ.	Max.	
+AUDIO_POWER	FA16	11.40	12.00	12.60	B06B_Audio
-AUDIO_POWER	FA14	11.40	12.00	12.60	B06B_Audio
+12V_DISP	FB34	11.40	12.00	12.60	B01A_DC-DC
+8V	F401	7.60	8.00	8.40	B06A_Audio Proc.
+5V_STANDBY	FB28	4.94	5.20	5.46	B01A_DC-DC
+5V_SW	FB40	4.93	5.19	5.45	B01A_DC-DC
+5V_D	F403	4.75	5.00	5.25	B06A_Audio Proc.
+5V_AUD	F402	4.75	5.00	5.25	B06A_Audio Proc.
+5V_TUN	F133	4.75	5.00	5.25	B02_Tuner IF
+3V3_STBY	FB13	3.10	3.30	3.50	B01A_DC-DC
+3V3_SW	FB11	3.1	3.3	3.5	B01A_DC-DC
+1V8_SW	FP06	1.72	1.82	1.92	B01B_DC-DC
+1V2_SW	FP03	1.18	1.25	1.31	B01B_DC-DC
+2V5_SW	FP05	2.37	2.5	2.63	B01B_DC_DC
+3V3	FJ01	3.2	3.27	3.4	B03E_DVB-MOJO
+3V3_FE	FF14	3.2	3.27	3.4	B03A_DVB-Demod
+1V2_CORE	FE08	1.14	1.24	1.34	B05C_WX_POWER

8.3 Software Alignments

With the software alignments of the Service Alignment Mode (SAM) the Tuner and RGB settings 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 Tuner Adjustment (RF AGC Take Over Point)

Purpose: To keep the tuner output signal constant as the input signal amplitude varies.

The LC7.5x chassis comes with the TD1316AF tuner. No alignment is necessary, as the AGC alignment is done automatically (standard value: “15”), even during analogue reception.

8.3.2 RGB Alignment

Before alignment, choose “TV MENU” -> “Picture” and set:
- “Brightness” to “50”.
- “Colour” to “50”.
- “Contrast” to “100”.

White Tone Alignment:
- Activate SAM.
- Select “RGB Align.” -> “White Tone” and choose a colour temperature.
- Use a 100% white screen as input signal and set the following values:
  - All “White point” values initial to “256”.
  - All “BlackL Offset” values to “0”.

In case you have a colour analyser:
- Measure with a calibrated (phosphor- independent) colour analyser (e.g. Minolta CA-210) in the centre of the screen. Consequently, the measurement needs to be done in a dark environment.
- Adjust the correct x,y coordinates (while holding one of the White point registers R, G or B on “256”) by means of decreasing the value of one or two other white points to the correct x,y coordinates (see table “White D alignment values”). Tolerance: dx: ± 0.004, dy: ± 0.004.
- Repeat this step for the other colour Temperatures that need to be aligned.
- When finished return to the SAM root menu and press STANDBY on the RC to store the aligned values to the NVM.

Table 8-1 White D alignment values

Value	Cool (11000 K)	Normal (9000 K)	Warm (6500 K)
x	0.278	0.289	0.314
y	0.278	0.291	0.319

If you do **not** have a colour analyser, you can use the default values. This is the next best solution. The default values are average values coming from production (statistics).

- Set the RED, GREEN and BLUE default values per temperature according to the values in the “Tint settings” table.
- When finished return to the SAM root menu and press STANDBY on the RC to store the aligned values to the NVM.

Table 8-2 Tint settings

Alignment	32"	42"	52"
COOL_RED	250	249	255
COOL_GREEN	251	241	254
COOL_BLUE	246	246	238
NORMAL_RED	252	251	255
NORMAL_GREEN	246	238	247
NORMAL_BLUE	228	229	219
WARM_RED	252	246	255
WARM_GREEN	232	222	233
WARM_BLUE	197	199	179

Black Level Offset Alignment

- Activate SAM.
- Select “RGB Align.” -> “BlackL Offset” and choose a colour.
- Set all “BlackL Offset” values to “0”.
- When finished return to the SAM root menu and press STANDBY on the RC to store the aligned values to the NVM.

Note: For models with “Pixel Plus”, the “Black Offset” (black level offset) should NOT be changed in SAM. These offset values of RGB should be set to “0”, and should **NOT** be adjusted. Any adjustment of these values will affect the low light white balance.

ADC YPbPr Gray Scale Alignment

When the grey scale is not correct, use this alignment:

- Activate SAM.
- Select “NVM Editor”.
- Enter address “26(dec)” (ADR).
- Set value (VAL) to “197(dec) ± 25”.
- Store (STORE) the value.

8.4 Option Settings

8.4.1 Introduction

The microprocessor communicates with a large number of I^2C 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.
- The new option setting becomes active after the TV is switched "off" and "on" again with the mains switch (the EAROM is then read again).

8.4.2 How To Set Option Codes

When the NVM is replaced, all options will require resetting. To be certain that the factory settings are reproduced exactly, you must set all option numbers. You can find the correct option numbers in table “Option Codes OP1...OP7“ below.

How to Change Options Codes

An option code (or “option byte”) represents eight different options (bits). When you change these numbers directly, you can set all options very quickly. All options are controlled via seven option bytes (OP1... OP7).
Activate SAM and select “Options”. Now you can select the option byte (OP1.. OP7) with the CURSOR UP/ DOWN keys, and enter the new 3 digit (decimal) value. For the correct factory default settings, see the next table “Option codes OP1...OP7“. For more detailed information, see the second table “Option codes at bit level“. If an option is set (value “1”), it represents a certain decimal value.
When all the correct options (bits) are set, the sum of the decimal values of each Option Byte (OP) will give the option code.

Sets 12NC	Sets Type	Panel Type	Panel 12NC	Panel Code (Dec)	Option Byte						
Ambilight					Group 1				Group 2		
					1	2	3	4	5	6	7
8670 000 32646	32PFL7962D/05	CMO: V315B1-L05	9322 248 65682	069	147	055	042	223	077	242	006
		Reserved	Reserved	Reserved							
		Reserved	Reserved	Reserved							
8670 000 32656	42PFL7962D/05	AUO: T420HW01V2	9322 254 10682	110	147	055	042	223	077	242	006
		LPL: LC420WU3-XXXX	not available	not available							
		Reserved	Reserved	Reserved							
Non Ambilight					Group 1				Group 2		
					1	2	3	4	5	6	7
8670 000 32644	32PFL7762D/05	CMO: V315B1-L05	9322 248 65682	069	147	023	042	223	077	242	006
		Reserved	Reserved	Reserved							
		Reserved	Reserved	Reserved							
8670 000 32638	42PFL7762D/05	AUO: T420HW01V2	9322 254 10682	110	147	023	042	223	077	242	006
		LPL: LC420WU3-XXXX	not available	not available							
		Reserved	Reserved	Reserved							
8670 000 32635	52PFL7762D/05	Sharp: LK520D3LZ13	9322 254 45682	098	147	023	042	223	077	242	005
		Reserved	Reserved	Reserved							
		Reserved	Reserved	Reserved							
Ambilight					Group 1				Group 2		
					1	2	3	4	5	6	7
8670 000 32647	32PFL7962D/12	CMO: V315B1-L05	9322 248 65682	069	147	055	042	223	077	242	006
		Reserved	Reserved	Reserved							
		Reserved	Reserved	Reserved							
8670 000 32655	42PFL7962D/12	AUO: T420HW01V2	9322 254 10682	110	147	055	042	223	077	242	006
		LPL: LC420WU3-XXXX	not available	not available							
		Reserved	Reserved	Reserved							
Non Ambilight					Group 1				Group 2		
					1	2	3	4	5	6	7
8670 000 32645	32PFL7762D/12	CMO: V315B1-L05	9322 248 65682	069	147	023	042	223	077	242	006
		Reserved	Reserved	Reserved							
		Reserved	Reserved	Reserved							
8670 000 32639	42PFL7762D/12	AUO: T420HW01V2	9322 254 10682	110	147	023	042	223	077	242	006
		LPL: LC420WU3-XXXX	not available	not available							
		Reserved	Reserved	Reserved							

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Figure 8-1 Option codes OP1...OP7

Option Bit Overview
Below find an overview of the Option Codes on **bit** level.

Table 8-3 Option codes at bit level (OP1-OP4)

Option Byte & Bit	Dec. Value	Option Name	Description
Byte OP1			
Bit 7 (MSB)	128	BBE	ON = BBE is available OFF = BBE is not available
Bit 6	64	CHINA	ON = SW is for CHINA only OFF = SW is for Non-China AP cluster
Bit 5	32	DTV_CHINA	ON = DTV_CHINA will be available (Reserved) OFF = DTV_CHINA will not be available
Bit 4	16	DTV_EU	ON = DTV will be available OFF = DTV will not be available
Bit 3	8	UK_PNP	ON = UK PNP is available (for analogue TV only) OFF = UK PNP is not available (for analogue TV only)
Bit 2	4	VIRGIN_MODE	ON = Virgin Mode (PNP) is available OFF = Virgin Mode (PNP) is not available
Bit 1	2	ACI	ON = ACI is available OFF = ACI is not available
Bit 0 (LSB)	1	ATS	ON = ATS is available OFF = ATS is not available
Total DEC Value			
Byte OP2			
Bit 7 (MSB)	128	1080P	ON = 1080p is available OFF = 1080p is not available
Bit 6	64	LIGHT_SENSOR	ON = Light Sensor is available OFF = Light Sensor is not available
Bit 5	32	AMBILIGHT	ON = Ambilight Feature will be available OFF = Ambilight Feature will not be available
Bit 4	16	BACKLIGHT_DIMMING	ON = Backlight Dimming is available OFF = Backlight Dimming is not available
Bit 3	8	HUE	ON = Hue is available OFF = Hue is not available
Bit 2	4	2D3DCF	ON = 3D Comb Filter is available OFF = 2D Comb Filter is available
Bit 1	2	WSSB	ON = WSS is available OFF = WSS is not available
Bit 0 (LSB)	1	WIDE_SCREEN	ON = TV is 16x9 set OFF = TV is 4x3 set
Total DEC Value			
Byte OP3			
Bit 7 (MSB)	128	CVI1	ON=CVI1 (YPbPr) (For ROW)
Bit 6	64	HDMI3	ON = HDMI3 (rear) is available OFF = HDMI3 (rear) is not available
Bit 5	32	HDMI4	ON = HDMI4 (side) is available OFF = HDMI4 (side) is not available
Bit 4	16	VCHIP	ON = VChip is available OFF = VChip is not available
Bit 3	8	VIDEO_TEXT	ON = Video-TXT is available OFF = Video-TXT is not available
Bit 2	4	STEREO_DBX	ON = Stereo DBX detection is available (LATAM) OFF = Stereo DBX detection is not available
Bit 1	2	STEREO_NICAM_2CS	ON = Stereo NICAM 2CS detection is available (EU/AP/China) OFF = Stereo NICAM 2CS detection is not available
Bit 0 (LSB)	1	LIP_SYNC	ON = Lip Sync is available OFF = Lip Sync is not available
Total DEC Value			
Byte OP4			
Bit 7 (MSB)	128	HDMI2	ON = HDMI2 is available OFF = HDMI2 is not available
Bit 6	64	HDMI1	ON = HDMI1 is available OFF = HDMI1 is not available
Bit 5	32	VGA	ON = VGA is available OFF = VGA is not available
Bit 4	16	SVHS3	ON = SVHS3 is available OFF = SVHS3 is not available
Bit 3	8	AV3	ON = AV3 is available OFF = AV3 is not available
Bit 2	4	CVI	ON = CVI is available OFF = CVI is not available
Bit 1	2	SVHS2	ON = SVHS2 is available OFF = SVHS2 is not available
Bit 0 (LSB)	1	AV2	ON = AV2 is available OFF = AV2 is not available
Total DEC Value			

Table 8-4 Option codes at bit level (OP5-OP7)

Option Byte & Bit	Dec. Value	Option Name	Description
Byte OP5			
Bit 7 (MSB)	128	NVM_CHECK	ON = NVM (range) checking is available OFF = NVM (range) checking is not available
Bit 6	64	DNM	ON = DNM is available OFF = DNM is not available
Bit 5	32	SUBWOOFER	ON = Subwoofer is available OFF = Subwoofer is not available
Bit 4	16	MP_ALIGN	ON = Using multi-point alignment for Gamma & White Point OFF = Using old way for Gamma (pre-defined) & WP alignment
Bit 3	8	SYS_RECVRY	ON = System Recovery is available OFF = System Recovery is not available
Bit 2	4	ED_HD_DNM	ON = DNM not available on ED and HD signal OFF = DNM available on ED and HD signal
Bit 1	2	HOTEL	ON = Hotel/BDS is available OFF = Hotel/BDS is not available
Bit 0 (LSB)	1	SS_DEMO	ON = Split Screen Demo is available OFF = Split Screen Demo is not available
Total DEC Value			
Byte OP6			
Bit 7 (MSB)	128	BACKLIGHT_BOOST	ON = iLAB Backlight boost feature is available OFF = iLAB Backlight boost feature is not available
Bit 6	64	STATIC _DIMMING	ON = iLAB Static Dimming feature is available OFF = iLAB Static Dimming feature is not available
Bit 5	32	CEC	ON = CEC feature available OFF = CEC feature not available
Bit 4	16	AUTO_HDMI	ON = Auto HDMI feature available OFF = Auto HDMI feature not available
Bit 3	8	TUNER PROFILE	0 = ATV_EU_PHILIPS UV1318S/AIH-3 1 = ATV_EU_Panasonic EN57K28G3F2 = DTV_EU_PHILIPS TD1316AF/IHP-24 = ATV_AP_PHILIPS UV1316E/AIH-45 = ATV_AP_Tuner2 (Reserved)6 = ATV_CHINA_ALPS TEDE9-286B7 = ATV_CHINA_Tuner2 (Reserved)8 = ATV_LATAM_PHILIPS UV1338/AIH-4 9 = ATV_LATAM_Tuner2 (Reserved)10 = DTV_CHINA_Tuner1 (Reserved)11 = DTV_CHINA_Tuner2 (Reserved)12 = Not Used (Reserved)13 = Not Used (Reserved)14 = Not Used (Reserved)15 = Not Used (Reserved)
Bit 2	4		
Bit 1	2		
Bit 0 (LSB)	1		
Total DEC Value			
Byte OP7			
Bit 7 (MSB)	128	Reserved	Not Used (Reserved)
Bit 6	64	Reserved	Not Used (Reserved)
Bit 5	32	Reserved	Not Used (Reserved)
Bit 4	16	CABINET PROFILE	0 = Cabinet_Profile_26_LCD_ME7 1 = Cabinet_Profile_32_LCD_ME7 2 = Cabinet_Profile_37_42_47_LCD_ME73 = Cabinet_Profile_42_50_PDP_ME7 4 = Cabinet_Profile_26_LCD_ME5P 5 = Cabinet_Profile_52_LCD_ME7 6 = Cabinet_Profile_Supernova7- 32 = Reserved
Bit 3	8		
Bit 2	4		
Bit 1	2		
Bit 0 (LSB)	1		
Total DEC Value			

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

Index of this chapter:

9.1 Introduction
9.2 LCD Power Supply
9.3 DC/DC converters
9.4 Front-End
9.5 DVB-T Signal Processing
9.6 Video Processing
9.7 Audio Processing
9.8 HDMI
9.9 Abbreviation List
9.10 IC Data Sheets

Notes:

- Only **new** circuits (circuits that are not published recently) are described.
- 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 Wiring, Block (chapter 6) and Circuit Diagrams (chapter 7). Where necessary, you will find a separate drawing for clarification.

9.1 Introduction

The LC7.5x chassis (development name “LC07S”) is a digital derivative from the digital LC7.2x chassis (development name “LC07”). It covers screen sizes of 32" and 42" with a new styling called “SuperNova” and 52" with existing styling “ME7”.
Some delta’s with respect to the LC7.2x chassis are:

- **Video**: Video processing is performed by the Trident video processor SVP WX86 (item 7C01) which outputs a signal of 1080p (no additional 1080p panel needed), introduces Digital Natural Motion (DNM) and supports MPEG Artifact Reduction.
- AmbiLight: FPGA-based AmbiLight controller integrated on SSB (no additional AmbiLight panel needed).
- **Audio**: introducing BBE® technology for increased speech intelligibility and music performance with an additional subwoofer.
- HDMI: Additional HDMI connector with on-board switch has been added.
- **On-board DC-DC converters:** DC-DC-converters on-board the SSB have been changed.

For (other) features of the chassis, please refer to the LC7.2E LA Service Manual.

9.1.1 SSB Cell Layout

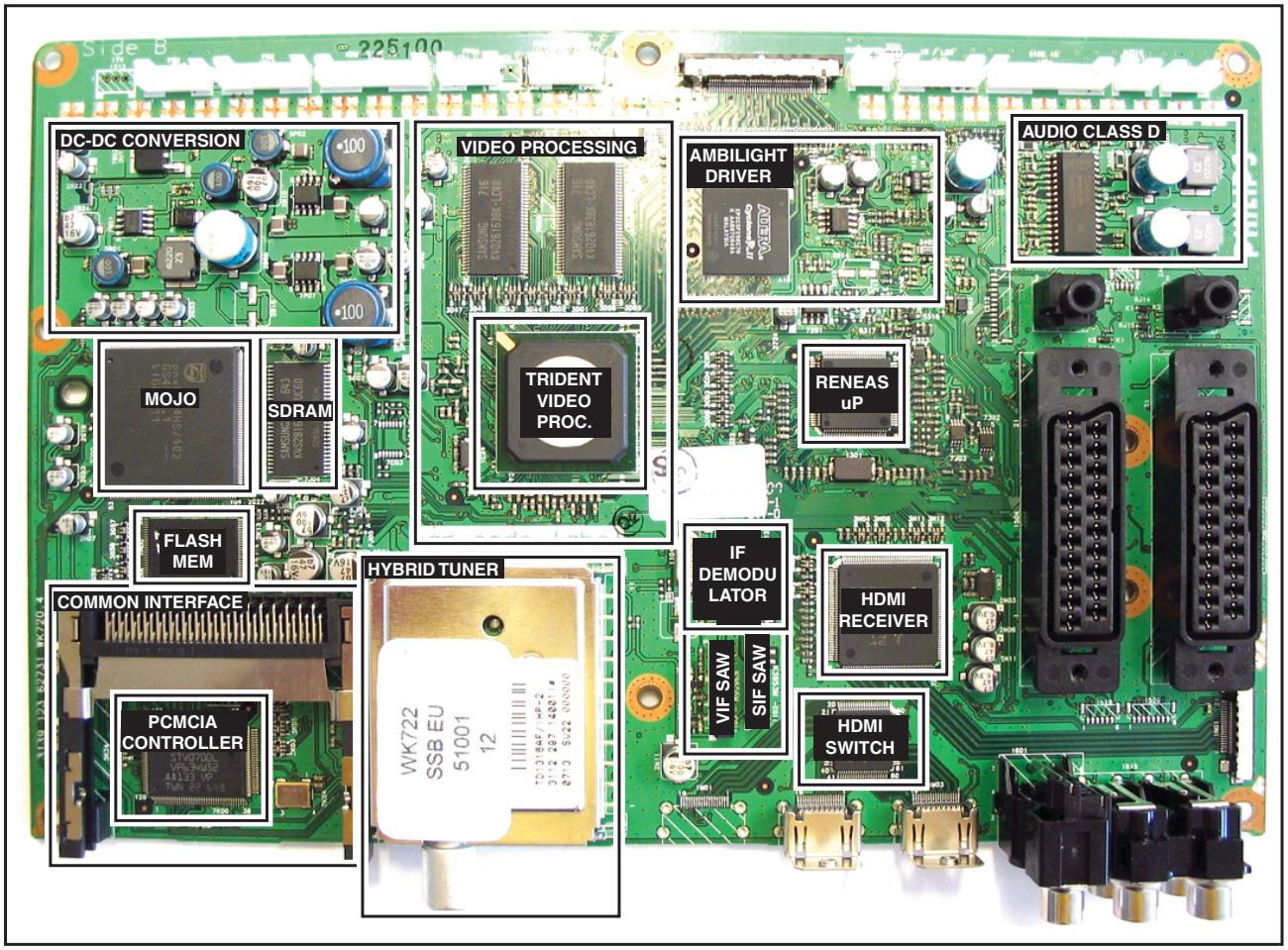

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Figure 9-1 SSB top view

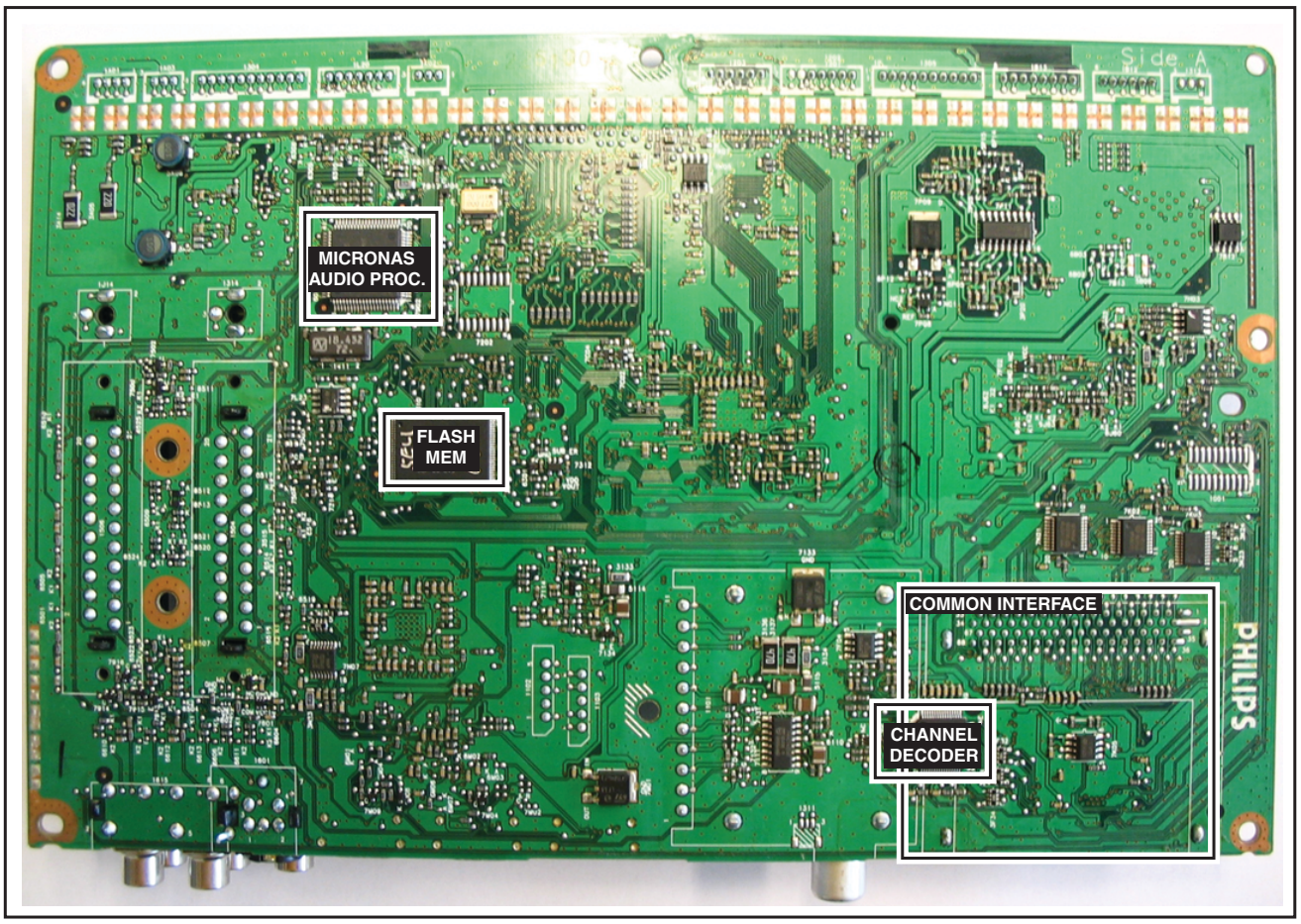

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Figure 9-2 SSB bottom view

9.2 LCD Power Supply

The Power Supply Unit (PSU) in this chassis is a buy-in and is a black-box for Service. When defective, a new panel must be ordered and the defective panel must be returned for repair, unless the main fuse of the unit is broken. Always replace the fuse with one of the correct specifications! This part is commonly available in the regular market.

Three different PSU can be used in this chassis:
- 32" sets use a “Delta” PSU
- 42" sets use a “PPS” (Philips Power Solutions) PSU
- 52" sets use a “Delta” PSU.

Figure “Overview of PSU connectivity” shows the connectivity of the Power Supply Unit with the other panels in the set.

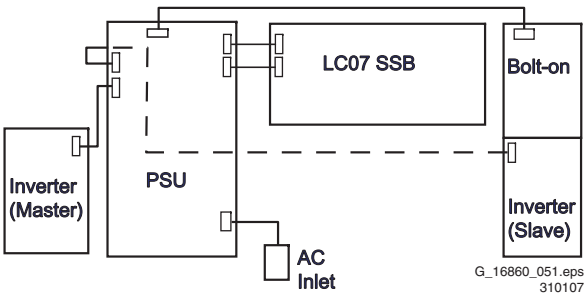

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Figure 9-3 Overview of PSU connectivity

All Power Supply Units deliver the following voltages to the chassis:
- +24 V to the inverters
- +12 V to SSB
- +12 V and -12 V to Audio Supply
- +12 V to Bolt-on Supply (where applicable)
- +5.2 V Standby voltage.

9.3 DC/DC converters

A switch (mounted on-board the SSB) generates the +5 V (+5V_SW) from the +5 V (+5V_STANDBY) supply voltage. They deliver the following voltages to the board:
- +3.3 V (+3V3_STBY)
- +5 V (+5V_SW)
- +3.3 V (+3V3_SW)
- +34 V (+VTUN)
- +2.5 V (+2V5_SW)
- +1.8 V (+1V8_SW)
- +1.2 V (+1V2_SW)

An overview can be found in figure “DC-DC converter block diagram”.

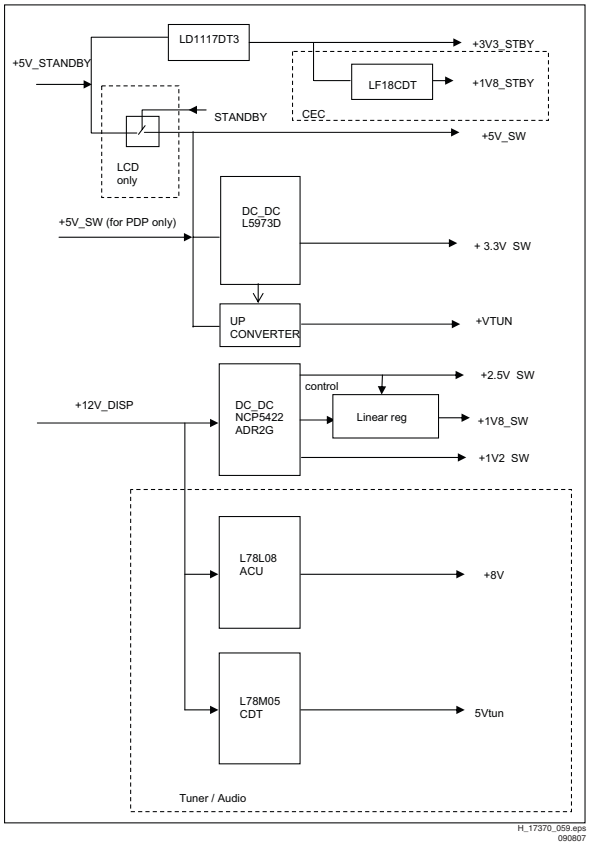

Figure 9-4 DC-DC converter block diagram

9.4 Front-End

Refer to the LC7.2E LA Service Manual.

9.5 DVB-T Signal Processing

Refer to the LC7.2E LA Service Manual.

9.5.1 Common Interface (CI)

Refer to the LC7.2E LA Service Manual.

9.5.2 Supply

The internal voltages that are used are:
- +5 V (+5V_SW)
- +3.3 V (+3V3_SW)
- +1.2 V (+1V2_SW)
- +1.8 V (+1V8S_SW).

During start-up, it is important that the +1V8S_SW line comes up earlier than the +3V3_MOJO line. In order to implement this, a delay circuit is added which is shown in figure “Delay circuitry”.

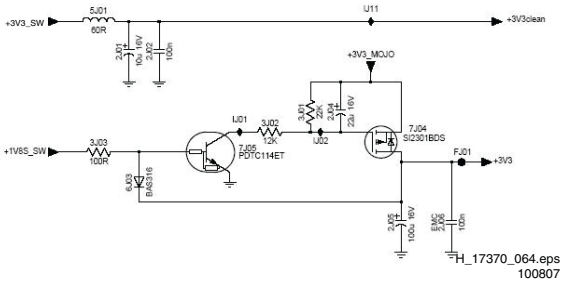

Figure 9-5 Delay circuitry

Item 7J05 switches the MOSFET “on” and “off” (item 7J04). The diode (item 6J03) performs a short-circuit protection for the +3V3 output stage.

9.6 Video Processing

The video processing is completely handled by the Trident SVP WX68 video processor which features:
- CVBS-input for analogue signals.
- RGB-input for digital (DVB-T) signals.
- Motion and “edge-adaptive” de-interlacing.
- Integrated ADC.
- Built-in 8-bit LVDS transmitter.
- Colour stretch.
- Skin colour enhancement.
- 3D Digital Comb Video Decoder.
- Interlaced and Progressive Scan refresh.
- TeleText decoding.
- OSD and VBI/Closed Caption.
- Digital Natural Motion (DNM).
- MPEG Artifact reduction.

9.6.1 System Overview

Refer to figure “System Overview” for details.

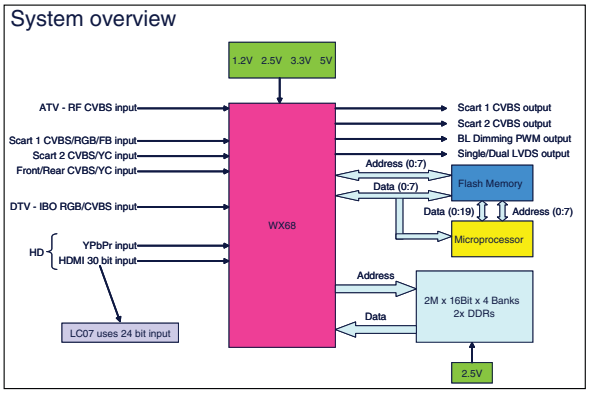

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Figure 9-6 System Overview

9.6.2 Video Application

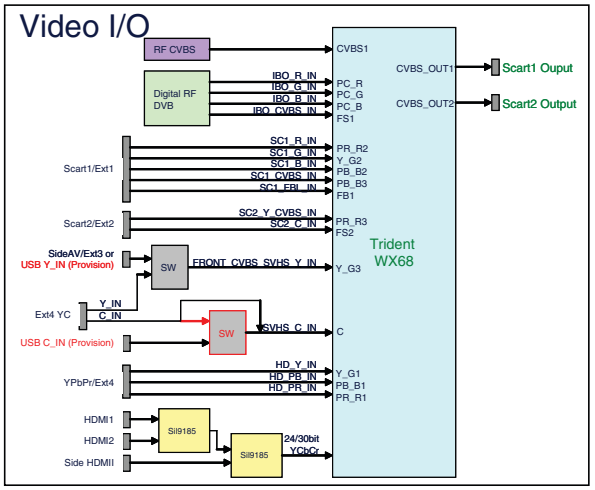

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Figure 9-7 Block diagram video processing

"Block diagram video processing" shows the input and output signals to and from the Trident Video Processor.

During analogue reception, a CVBS signal coming from the analogue front-end is fed to the video processor via pin CVBS1. During digital reception, the video signal coming from the MPEG decoder (MOJO) is fed to the video processor via pins FS1, PC_B, PC_G and PC_R.

The video processor also interfaces the SCART1 & 2 input, side AV, EXT4 (HD where applicable) and HDMI1 & 2 and Side HDMI input. Through the SCART1 & 2 connectors, a monitor output is foreseen.

9.7 Audio Processing

Refer to the LC7.2E LA Service Manual.

9.8 HDMI

9.8.1 Introduction

Refer to the LC7.2E LA Service Manual.

9.8.2 Implementation

The main HDMI receiver which is used is the Sil 9125 (Silicon Image) third generation HDMI receiver (item 7N01 on the SSB). In addition, the Sil 9185 HDMI switch (item 7M07) and Sil 9181 HDMI buffer (item 7Q03) are used for switching the 3 HDMI inputs and buffering to ensure good signal quality. Refer to figure “HDMI implementation” for details.

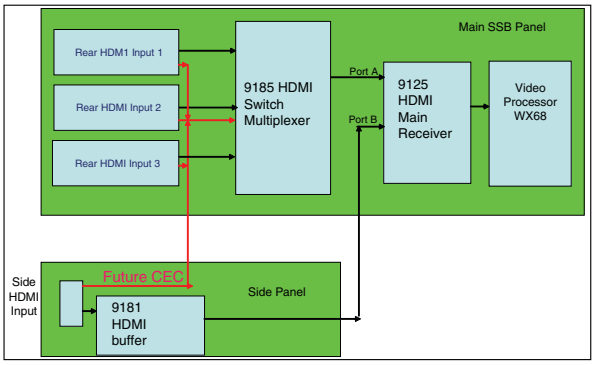

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Figure 9-8 HDMI implementation

The implementation supports:

- Three HDMI input connectors to the TV via “HDMI rear” as “HDMI1”, “HDMI2” and “HDMI3”.
- One HDMI input connector to the TV via “HDMI side” as “Side HDMI”.
- All EDID is stored in the internal EEPROM which is integrated inside the Sil9185 multiplexer and Sil9181 buffer IC.
- I^2S output for connection to low-cost DACs at a frequency of 32 to 192 kHz.
- Pre-programmed HDCP keys providing the highest level of security and simplicity during manufacturing.

When the HDMI receiver Sil9125 receives either RGB or YCbCr 4:2:2 input signals, it will convert these signals to 24-36-bit YCbCr 4:4:4 output signals. When it receives an YCbCr 4:4:4 input signal, it will just bypass this signal to the Trident WX68 video processor.

Refer to figures “HDMI signal flow diagram” and “HDMI interface to Video Processor” for details.

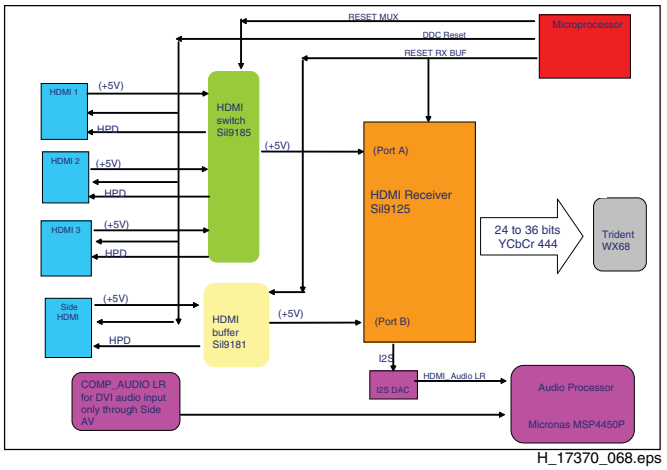

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Figure 9-9 HDMI signal flow diagram

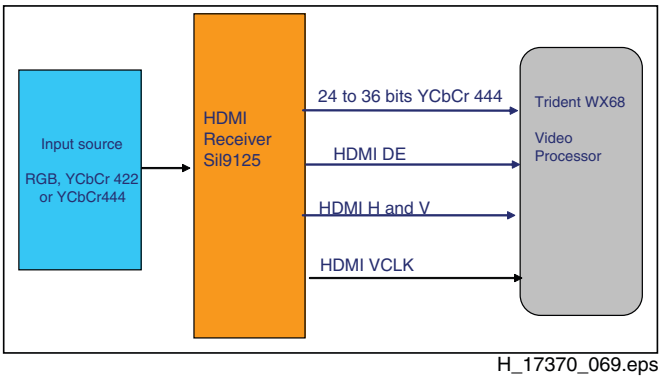

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Figure 9-10 HDMI interface to Video Processor

9.9 Abbreviation List

1080i	1080 visible lines, interlaced
1080p	1080 visible lines, progressive scan
2CS	2 Carrier Sound
2DNR	Spatial (2D) Noise Reduction
3DNR	Temporal (3D) Noise Reduction
480i	480 visible lines, interlaced
480p	480 visible lines, progressive scan
AARA	Automatic Aspect Ratio Adaptation: algorithm that adapts aspect ratio to remove horizontal black bars; keeping up the original aspect ratio
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 to the correct frequency
AGC	Automatic Gain Control: algorithm that controls the video input of the feature box
AM	Amplitude Modulation
AUO	Acer Unipack Optronics
AP	Asia Pacific
AR	Aspect Ratio: 4 by 3 or 16 by 9
ASD	Automatic Standard Detection
AV	Audio Video
B/G	Monochrome TV system. Sound carrier distance is 5.5 MHz
BTSC	Broadcast Television System Committee
CAM	Conditional Access Module
CBA	Circuit Board Assembly (or PWB)
CEC	Consumer Electronics Control bus; remote control bus on HDMI connections
CI	Common Interface; E.g PCMCIA slot for a CAM in a set top box
CL	Constant Level: audio output to connect with an external amplifier
CLUT	Colour Look Up Table
ComPair	Computer aided rePair
COFDM	Coded Orthogonal Frequency Division Multiplexing; A multiplexing technique that distributes the data to be transmitted over many carriers
CSM	Customer Service Mode
CVBS	Composite Video Blanking and Synchronisation
CVBS-MON	CVBS monitor signal
CVBS-TER-OUT	CVBS terrestrial out
CVI	Component Video Input
DAC	Digital to analogue Converter
DBE	Dynamic Bass Enhancement: extra low frequency amplification
DDC	Display Data Channel; is a part of the "Plug and Play" feature
DFU	Directions For Use: owner's manual
DNR	Dynamic Noise Reduction
DRAM	Dynamic RAM
DSP	Digital Signal Processing
DST	Dealer Service Tool: special (European) remote control designed for service technicians
DTS	Digital Theatre Sound
DVB(T)	Digital Video Broadcast; An MPEG2 based standard for transmitting digital audio and video. T= Terrestrial
DVD	Digital Versatile Disc
DVI	Digital Visual Interface
DW	Double Window
ED	Enhanced Definition: 480p, 576p
EDID	Extended Display Identification Data (VESA standard)
EEPROM	Electrically Erasable and Programmable Read Only Memory
EU	EUrope
EXT	EXTernal (source), entering the set by SCART or by cinches (jacks)
FBL	Fast Blanking: DC signal accompanying RGB signals
FBL-TXT	Fast Blanking Teletext
FLASH	FLASH memory
FM	Field Memory / Frequency Modulation
FMR	FM Radio
FRC	Frame Rate Converter
FTV	Flat TeleVision
H	H_sync to the module
HD	High Definition: 720p, 1080i, 1080p
HDCP	High-bandwidth Digital Content Protection; A "key" encoded into the HDMI/DVI signal that prevents video data piracy. If a source is HDCP coded and connected via HDMI/DVI without the proper HDCP decoding, the picture is put into a "snow vision" mode or changed to a low resolution. For normal content distribution, the source and the display device must be enabled for HDCP "software key" decoding
HDMI	High Definition Multimedia Interface, digital audio and video interface
HP	Head Phone
I	Monochrome TV system. Sound carrier distance is 6.0 MHz
I2C	Integrated IC bus
I2S	Integrated IC Sound bus
IBO(Z)	Intelligent Bolt On module. Z= Zapper; module for DVB reception.
IC	Integrated Circuit
IF	Intermediate Frequency
IR	Infra Red
IRQ	Interrupt ReQuest
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 the customers wishes
LATAM	LATin AMerica
LC07	Philips chassis name for LCD TV 2007 project
LCD	Liquid Crystal Display
LED	Light Emitting Diode
L/L'	Monochrome TV system. Sound carrier distance is 6.5 MHz. L' is Band I, L is all bands except for Band I
LPL	LG Philips LCD
LS	Loud Speaker
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
MOSFET	Metal Oxide Semiconductor Field Effect Transistor
MPEG	Motion Pictures Experts Group
MSP	Multi-standard Sound Processor: ITT sound decoder
MUTE	MUTE Line
NAFTA	North American Free Trade Association: Trade agreement between Canada, USA and Mexico
NC	Not Connected

NICAM	Near Instantaneous Compounded Audio Multiplexing. This is a digital sound system, used mainly in Europe.
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)
NVM	Non Volatile Memory: IC containing TV related data (for example, options)
O/C	Open Circuit
ON/OFF LED	On/Off control signal for the LED
OAD	Over the Air Download
OSD	On Screen Display
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)
PC	Personal Computer
PCB	Printed Circuit Board (or PWB)
PDP	Plasma Display Panel
PIG	Picture In Graphic
PIP	Picture In Picture
PLL	Phase Locked Loop. Used, for example, in FST tuning systems. The customer can directly provide the desired frequency
PSU	Power Supply Unit
PWB	Printed Wiring Board (or PCB)
RAM	Random Access Memory
RC	Remote Control transmitter
RC5 (6)	Remote Control system 5 (6), the signal from the remote control receiver
RF	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
ROM	Read Only Memory
SAM	Service Alignment Mode
SC	SandCastle: two-level pulse derived from sync signals
SC1-OUT	SCART output of the MSP audio IC
SC2-OUT	SCART output of the MSP audio IC
S/C	Short Circuit
SCL	Clock signal on I2C bus
SD	Standard Definition: 480i, 576i
SDA	Data signal on I2C bus
SDI	Samsung Display Industry
SDM	Service Default Mode
SDRAM	Synchronous DRAM
SECAM	SEequence Couleur Avec Memoire. Colour system used mainly in France and Eastern Europe. Colour carriers = 4.406250 MHz and 4.250000 MHz
SIF	Sound Intermediate Frequency
SMPS	Switch Mode Power Supply
SND	SouND
SOPS	Self Oscillating Power Supply
S/PDIF	Sony Philips Digital InterFace
SRAM	Static RAM
SSB	Small Signal Board
STBY	Stand-by
SVHS	Super Video Home System
SW	Sub Woofer / SoftWare / Switch
THD	Total Harmonic Distortion
TXT	TeleteXT
uP	Microprocessor
VL	Variable Level out: processed audio output toward external amplifier
VCR	Video Cassette Recorder
VGA	Video Graphics Array
WD	Watch Dog
WYSIWYR	What You See Is What You Record: record selection that follows main picture and sound
XTAL	Quartz crystal
YPbPr	Component video (Y= Luminance, Pb/Pr= Colour difference signals B-Y and R-Y, other amplitudes w.r.t. to YUV)
Y/C	Video related signals: Y consists of luminance signal, blanking level and sync; C consists of colour signal.
Y-OUT	Luminance-signal
YUV	Baseband component video (Y= Luminance, U/V= Colour difference signals)

9.10 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).

9.10.1 Diagram B03A, Type TDA10046AHT (IC7F01), COFDM Channel Decoder

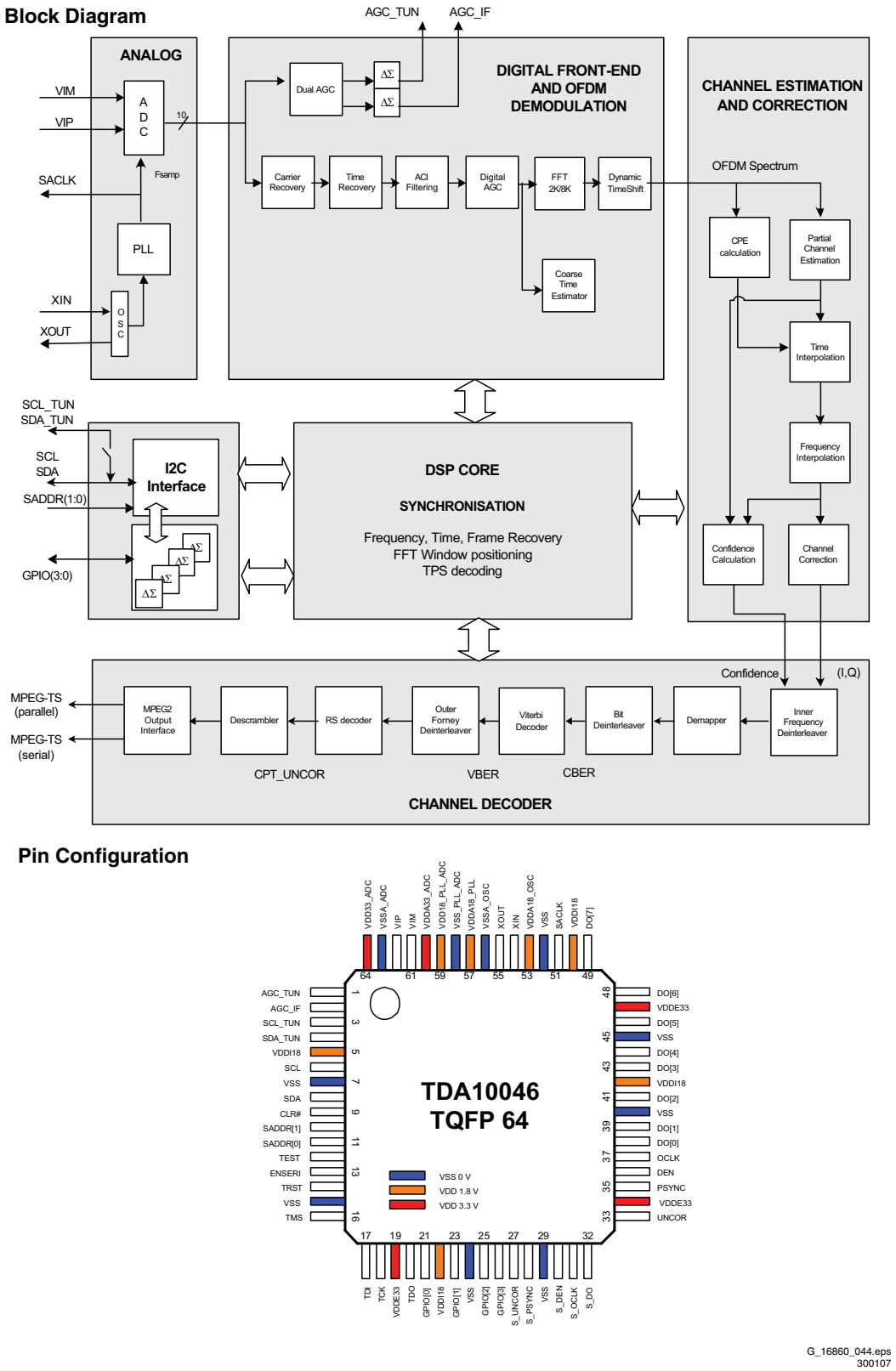
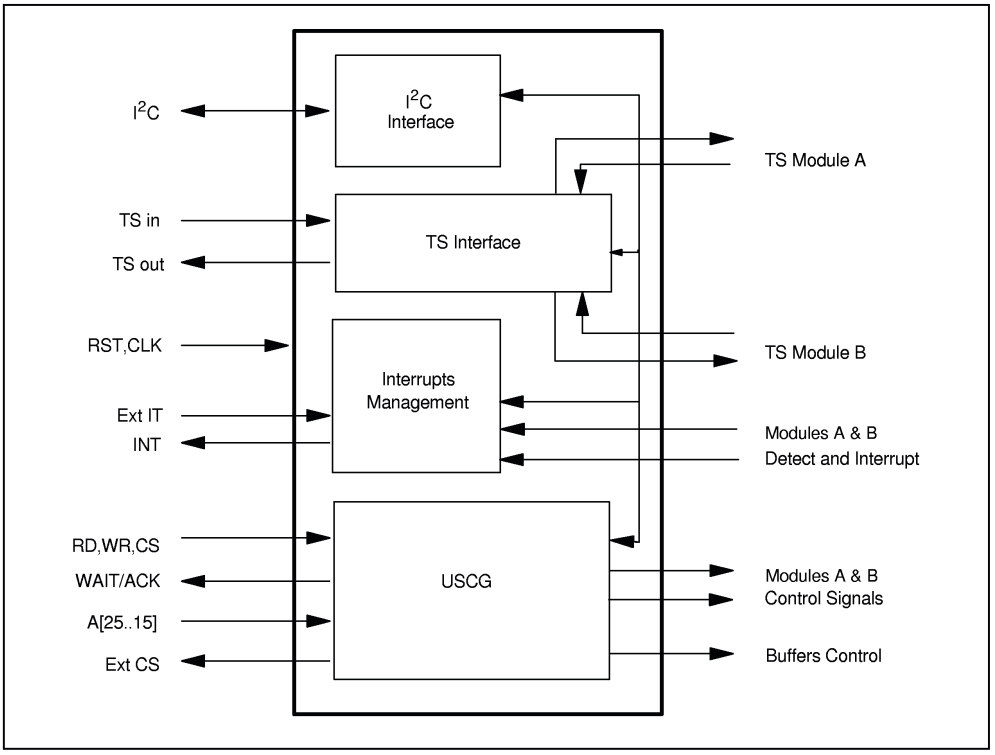


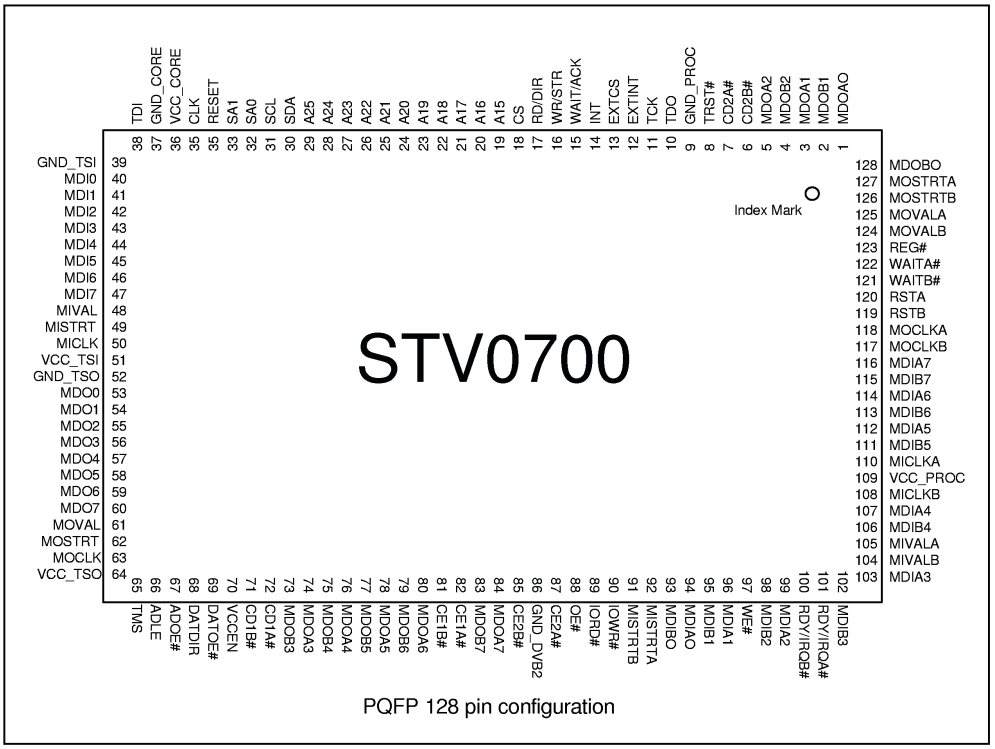
Figure 9-11 Internal block diagram and pin configuration

9.10.2 Diagram B03B, Type STV0700 (IC7K00), PCMCIA Controller

Block Diagram



Pin Configuration



PQFP 128 pin configuration

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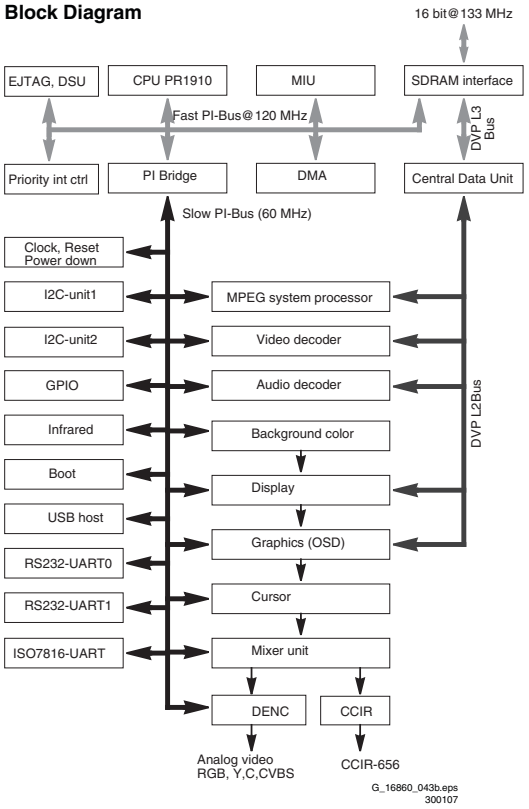
060307

Figure 9-12 Internal block diagram and pin configuration

9.10.3 Diagram B03C, Type PNX8314HS (IC7G00), DVB-MOJO

Block Diagram



Pin Configuration

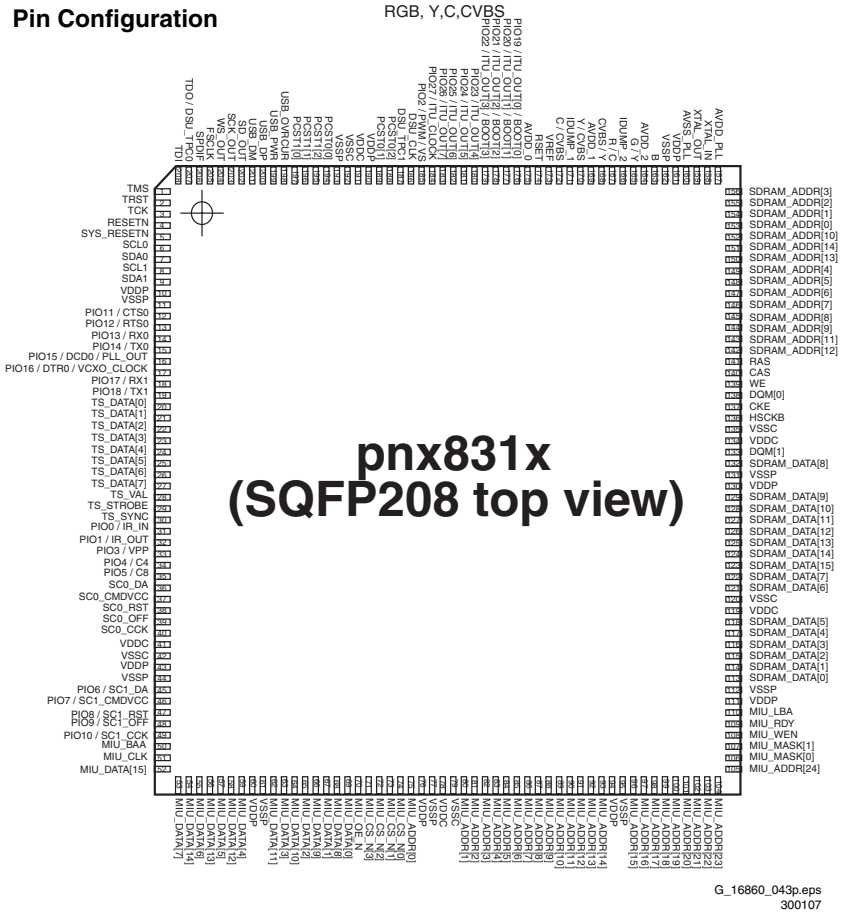


Figure 9-13 Internal block diagram and pin configuration

9.10.4 Diagram B05A, B05C, Type SVP WX68 (IC7C01), Trident Video processor

Block Diagram

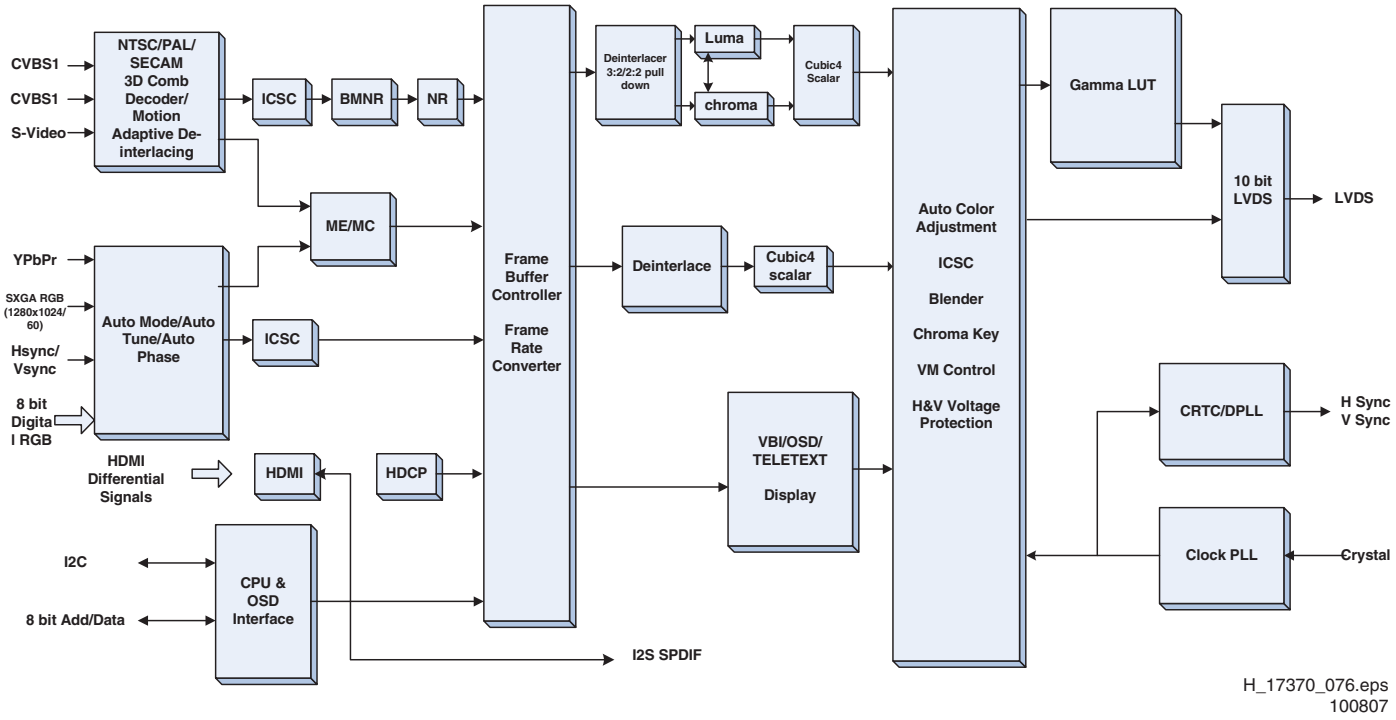


Figure 9-14 Internal block diagram

9.10.5 Diagram B06A, Type MSP4450P (IC7411), Micronas Sound Processor

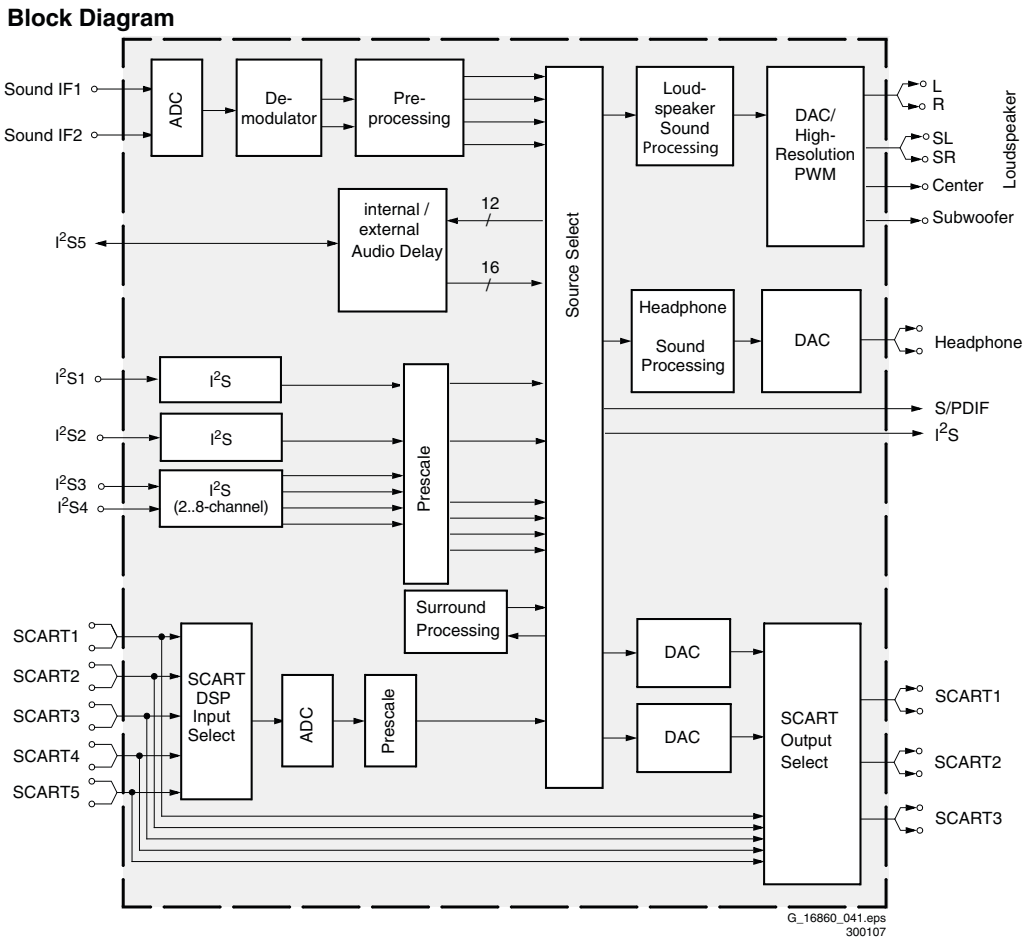
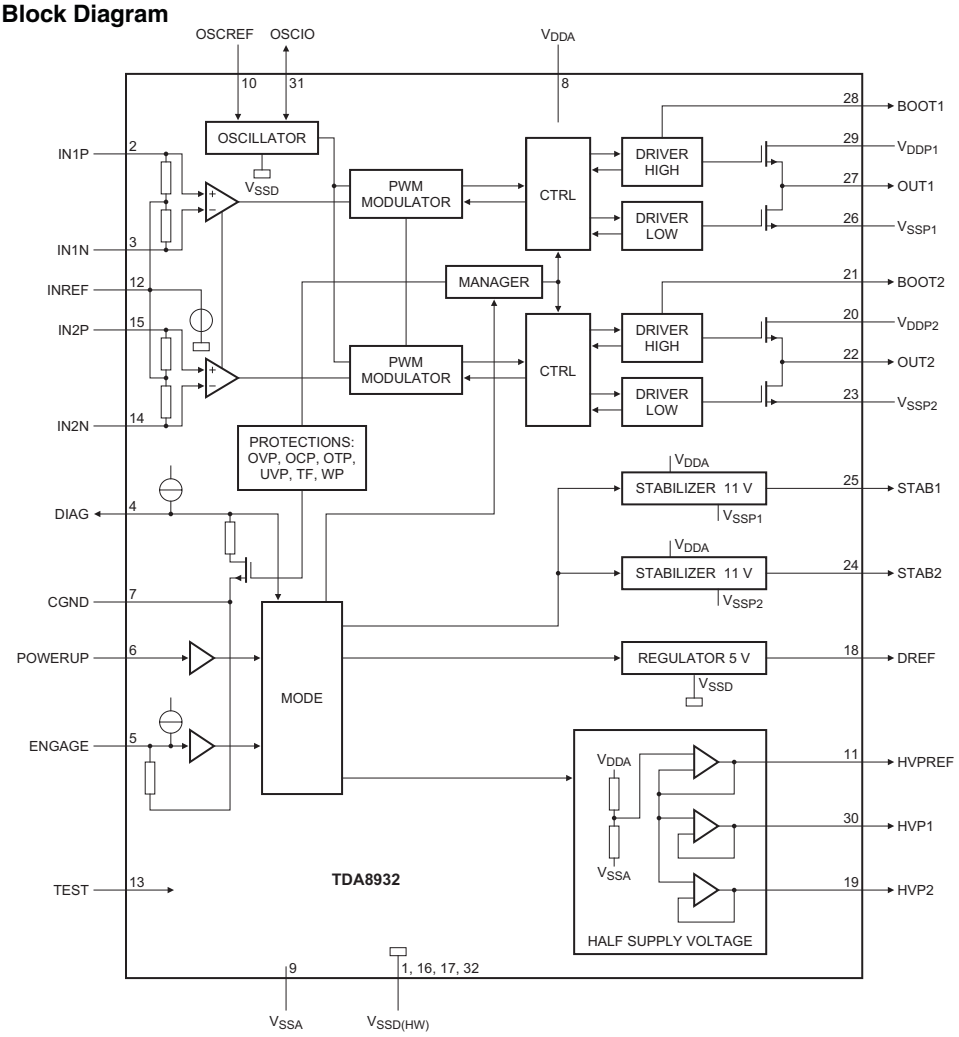


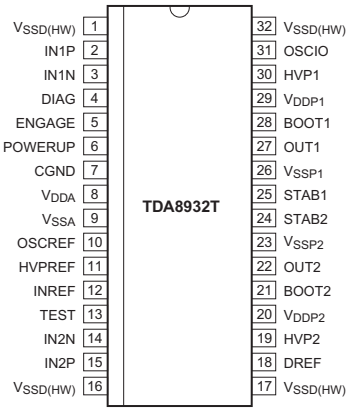
Figure 9-15 Internal block diagram

9.10.6 Diagram B06B, Type TDA8932T (IC7A01), Audio Amplifier

Block Diagram



Pin Configuration



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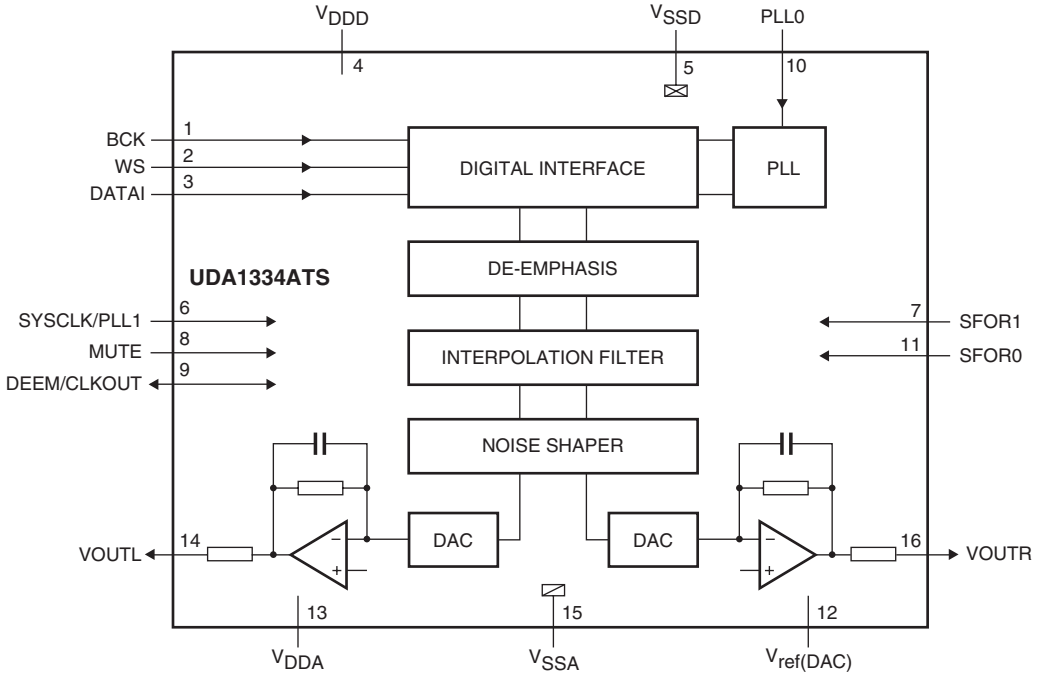
300107

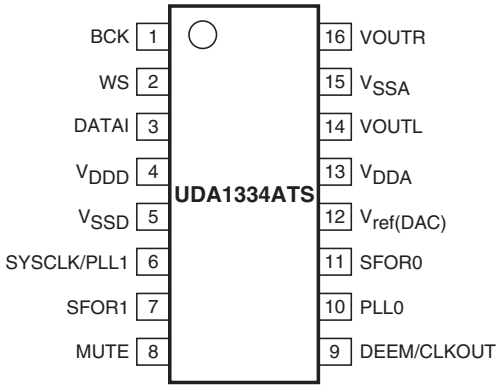
Figure 9-16 Internal block diagram and pin configuration

9.10.7 Diagram B07C, Type UDA1334ATS (IC7N07), Audio DAC

Block Diagram



Pin Configuration



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220207

Figure 9-17 Internal block diagram and pin configuration

9.10.8 Diagram B07C, Type SIL9125CTU (IC7817), HDMI Receiver

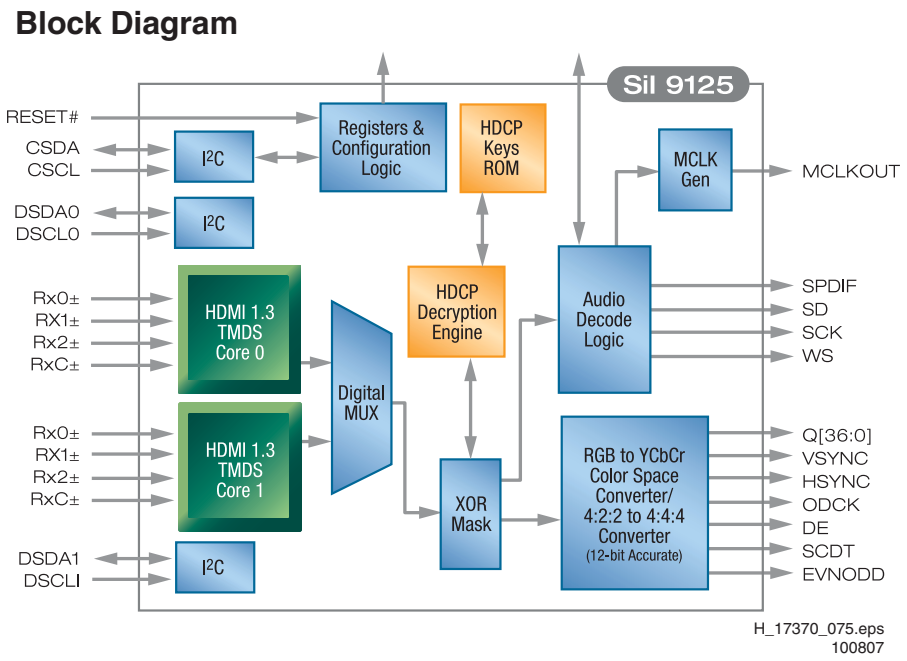

Figure 9-18 Internal block diagram

9.10.9 Diagram B07D, Type Sil 9185 (IC7M07), HDMI Switch

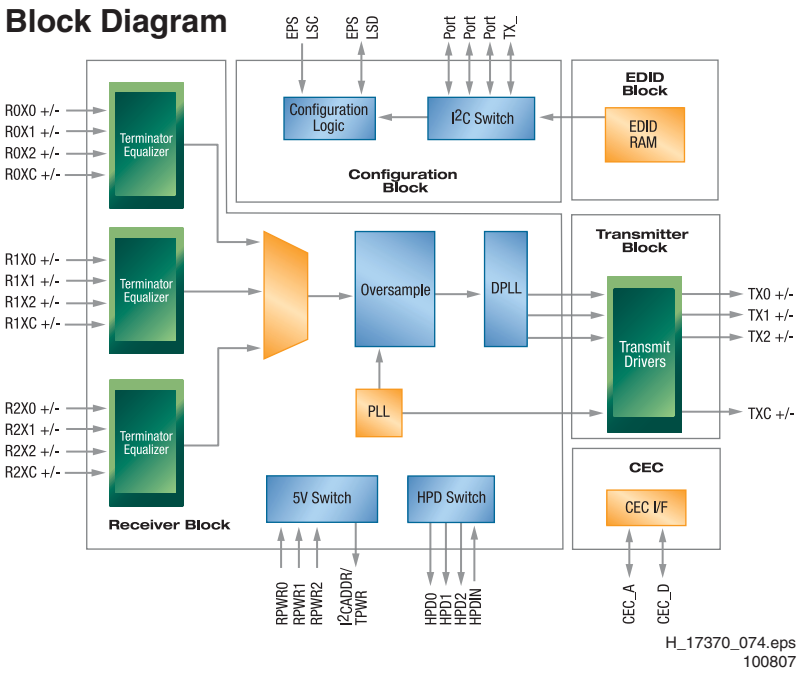

Figure 9-19 Internal block diagram

10. Spare Parts List

Index of this chapter:

10.1 Set Level
10.2 Small Signal Board [B]

10.1 Set Level

Table 10-1 32PFL7762D/05 (Alt. BOM 1)

Item	Philips 12NC	Description
0815	Proc. main SW	Download from website
0816	Proc. NVM SW	Download from website
0851	IBOZ main SW	Download from website
0852	IBOZ NVM SW	Download from website
0006	313926886261	Front cabinet 32”
0011	313926886131	Back cover 32"
0260	313918758081	Stand assy
1004	932224865682	LCD V315B1-L05 (CMO)
1005	313912878452	Power Supply Unit Delta
1112	313926805931	IR/LED assy
1114	313926805921	Keyboard Control assy
1116	313926852541	Side IO Bracket assy
5213	242226400639	Speaker 12 ohm 10W FULR
5215	242226400642	Speaker 12 ohm 15W TWT
5226	242226400641	Speaker 24 ohm 15W WFR
8304	313917100081	Cbl. 4p/480+820/2FT Fer
8305	310431106541	Cable 10p/560/10p
8308	310431108061	Cable 2p3/120/Inlet
8319	310431112441	Cable 14P/220/14P KR
8B12	313917100221	Cable 09P/400+220/3+6P
8B13	313917100151	Cable 08P/220/08P
8M01	310431112371	Cable 3p/80/3p
8M20	310431103811	Cable 7p/480/7p Wh
8N01	313917100201	Cable 21p/200/21p
8R01	313913109981	Cable FX15 41p/180/51p
8R04	310431107001	Cable 11p/400/11p

Table 10-2 32PFL7762D/12 (Alt. BOM 1)

Item	Philips 12NC	Description
0815	Proc. main SW	Download from website
0816	Proc. NVM SW	Download from website
0851	IBOZ main SW	Download from website
0852	IBOZ NVM SW	Download from website
0006	313926886261	Front cabinet 32”
0011	313926886131	Back cover 32"
0260	313918758081	Stand assy
1004	932224865682	LCD V315B1-L05 (CMO)
1005	313912878452	Power Supply Unit Delta
1112	313926805931	IR/LED assy
1114	313926805921	Keyboard Control assy
1116	313926852541	Side IO Bracket assy
5213	242226400639	Speaker 12 ohm 10W FULR
5215	242226400642	Speaker 12 ohm 15W TWT
5226	242226400641	Speaker 24 ohm 15W WFR
8304	313917100081	Cbl. 4p/480+820/2FT Fer
8305	310431106541	Cable 10p/560/10p
8308	310431108061	Cable 2p3/120/Inlet
8319	310431112441	Cable 14P/220/14P KR
8B12	313917100221	Cable 09P/400+220/3+6P
8B13	313917100151	Cable 08P/220/08P
8M01	310431112371	Cable 3p/80/3p
8M20	310431103811	Cable 7p/480/7p Wh
8N01	313917100201	Cable 21p/200/21p
8R01	313913109981	Cable FX15 41p/180/51p
8R04	310431107001	Cable 11p/400/11p

Table 10-3 32PFL7962D/05 (Alt. BOM 1)

Item	Philips 12NC	Description
0815	Proc. main SW	Download from website
0816	Proc. NVM SW	Download from website
0851	IBOZ main SW	Download from website
0852	IBOZ NVM SW	Download from website
0006	313926886401	Front cabinet 32"
0011	313926886141	Back cover 32"
0260	313918758081	Stand assy
1004	932224865682	LCD V315B1-L05 (CMO)
1005	313912878452	Power Supply Unit Delta
1112	313926805931	IR/LED assy
1114	313926805921	Keyboard Control assy
1116	313926852541	Side IO Bracket assy
5213	242226400639	Speaker 12 ohm 10W FULR
5215	242226400642	Speaker 12 ohm 15W TWT
5226	242226400641	Speaker 24 ohm 15W WFR
8116	313917100261	Cable 08P/400+400/4+4P
8304	313917100081	Cbl. 4p/480+820/2FT Fer
8305	310431106541	Cable 10p/560/10p
8308	310431108061	Cable 2p3/120/Inlet
8319	310431112441	Cable 14P/220/14P KR
8B12	313917100221	Cable 09P/400+220/3+6P
8B13	313917100151	Cable 08P/220/08P
8M01	310431112371	Cable 3p/80/3p
8M20	310431103811	Cable 7p/480/7p Wh
8N01	313917100201	Cable 21p/200/21p
8R01	313913109981	Cable FX15 41p/180/51p
8R04	310431107001	Cable 11p/400/11p

Table 10-4 32PFL7962D/12 (Alt. BOM 1)

Item	Philips 12NC	Description
0815	Proc. main SW	Download from website
0816	Proc. NVM SW	Download from website
0851	IBOZ main SW	Download from website
0852	IBOZ NVM SW	Download from website
0006	313926886401	Front cabinet 32"
0011	313926886141	Back cover 32"
0260	313918758081	Stand assy
1004	932224865682	LCD V315B1-L05 (CMO)
1005	313912878452	Power Supply Unit Delta
1112	313926805931	IR/LED assy
1114	313926805921	Keyboard Control assy
1116	313926852541	Side IO Bracket assy
5213	242226400639	Speaker 12 ohm 10W FULR
5215	242226400642	Speaker 12 ohm 15W TWT
5226	242226400641	Speaker 24 ohm 15W WFR
8116	313917100261	Cable 08P/400+400/4+4P
8304	313917100081	Cbl. 4p/480+820/2FT Fer
8305	310431106541	Cable 10p/560/10p
8308	310431108061	Cable 2p3/120/Inlet
8319	310431112441	Cable 14P/220/14P KR
8B12	313917100221	Cable 09P/400+220/3+6P
8B13	313917100151	Cable 08P/220/08P
8M01	310431112371	Cable 3p/80/3p
8M20	310431103811	Cable 7p/480/7p Wh
8N01	313917100201	Cable 21p/200/21p
8R01	313913109981	Cable FX15 41p/180/51p
8R04	310431107001	Cable 11p/400/11p

Table 10-5 42PFL7762D/05 (Alt. BOM 1)

Item	Philips 12NC	Description
0815	Proc. main SW	Download from website
0816	Proc. NVM SW	Download from website
0851	IBOZ main SW	Download from website
0852	IBOZ NVM SW	Download from website
0006	313926886241	Front Cabinet 42"
0011	313926886111	Back Cover 42"
0158	310430891131	Mushroom screw
0164	313918758641	Fixation bracket assy L/R
0260	313918757681	Stand assy
1004	932225410682	LCD T420HW01V2 (AUOP)
1005	312242724573	PSU PLCD300P3
1112	313926805931	IR/LED assy
1114	313926805921	Keyboard Control assy
1116	313926852551	Side I/O assy
5213	242226400639	Speaker 12 ohm 10W FULR
5215	242226400642	Speaker 12 ohm 15W TWT
5226	242226400641	Speaker 24 ohm 15W WFR
8304	313917100231	Cbl. 4p/480+1k0/2Ft
8305	310431106091	Cable 10p/680/10p
8308	310431108061	Cable 2p3/120/Inlet
8316	310431108191	Cable 12p/1200/12p
8319	310431112481	Cable 14p/400/14p
8B12	313917100141	Cable 09P/560+400/3+6P
8B13	313917100161	Cable PH 08P/400/08P
8M01	310431112371	Cable 3p/80/3p
8M20	310431104341	Cable 7p/560/7p
8N01	313913109961	Cable 21p/300/21p
8R01	313913109781	Cable FX15 41p/280/51p
8R04	310431108031	Cable 11p/480/11p

Table 10-6 42PFL7762D/12 (Alt. BOM 1)

Item	Philips 12NC	Description
0815	Proc. main SW	Download from website
0816	Proc. NVM SW	Download from website
0851	IBOZ main SW	Download from website
0852	IBOZ NVM SW	Download from website
0006	313926886241	Front Cabinet 42"
0011	313926886111	Back Cover 42"
0025	313917817781	Control knob assy
0158	310430891131	Mushroom screw
0164	313918758641	Fixation bracket assy L/R
0260	313918757681	Stand assy
1004	932225410682	LCD T420HW01V2 (AUOP)
1005	312242724573	PSU PLCD300P3
1112	313926805931	IR/LED assy
1114	313926805921	Keyboard Control assy
1116	313926852551	Side I/O assy
5213	242226400639	Speaker 12 ohm 10W FULR
5215	242226400642	Speaker 12 ohm 15W TWT
5226	242226400641	Speaker 24 ohm 15W WFR
8304	313917100231	Cbl. 4p/480+1k0/2Ft
8305	310431106091	Cable 10p/680/10p
8308	310431108061	Cable 2p3/120/Inlet
8316	310431108191	Cable 12p/1200/12p
8319	310431112481	Cable 14p/400/14p
8B12	313917100141	Cable 09P/560+400/3+6P
8B13	313917100161	Cable PH 08P/400/08P
8M01	310431112371	Cable 3p/80/3p
8M20	310431104341	Cable 7p/560/7p
8N01	313913109961	Cable 21p/300/21p
8R01	313913109781	Cable FX15 41p/280/51p
8R04	310431108031	Cable 11p/480/11p

Table 10-7 42PFL7962D/05 (Alt. BOM 1)

Item	Philips 12NC	Description
0815	Proc. main SW	Download from website
0816	Proc. NVM SW	Download from website
0851	IBOZ main SW	Download from website
0852	IBOZ NVM SW	Download from website
0006	313926886411	Front cabinet 42"
0011	313926886101	Back cover 42"
0158	310430891131	Mushroom screw
0164	313918758641	Fixation bracket assy L/R
0260	313918757681	Stand assy
1004	932225410682	LCD T420HW01V2 (AUOP)
1005	312242724573	PSU PLCD300P3
1112	313926805931	IR/LED assy
1114	313926805921	Keyboard Control assy
1116	313926852551	Side I/O assy
5213	242226400639	Speaker 12 ohm 10W FULR
5215	242226400642	Speaker 12 ohm 15W TWT
5226	242226400641	Speaker 24 ohm 15W WFR
8304	313917100231	Cbl. 4p/480+1k0/2Ft
8305	310431106091	Cable 10p/680/10p
8308	310431108061	Cable 2p3/120/Inlet
8316	310431108191	Cable 12p/1200/12p
8319	310431112481	Cable 14p/400/14p
8321	313917100211	Cable 8p/480+480/4+4p
8B12	313917100141	Cable 09P/560+400/3+6P
8B13	313917100161	Cable PH 08P/400/08P
8M01	310431112371	Cable 3p/80/3p
8M20	310431104341	Cable 7p/560/7p
8N01	313913109961	Cable 21p/300/21p
8R01	313913109781	Cable FX15 41p/280/51p
8R04	310431108031	Cable 11p/480/11p

Table 10-8 42PFL7962D/12 (Alt. BOM 1)

Item	Philips 12NC	Description
0815	Proc. main SW	Download from website
0816	Proc. NVM SW	Download from website
0851	IBOZ main SW	Download from website
0852	IBOZ NVM SW	Download from website
0006	313926886411	Front cabinet 42"
0011	313926886101	Back cover 42"
0025	313917817781	Control knob assy
0158	310430891131	Mushroom screw
0164	313918758641	Fixation bracket assy L/R
0260	313918757681	Stand assy
1004	932225410682	LCD T420HW01V2 (AUOP)
1005	312242724573	PSU PLCD300P3
1112	313926805931	IR/LED assy
1114	313926805921	Keyboard Control assy
1116	313926852551	Side I/O assy
5213	242226400639	Speaker 12 ohm 10W FULR
5215	242226400642	Speaker 12 ohm 15W TWT
5226	242226400641	Speaker 24 ohm 15W WFR
8304	313917100231	Cbl. 4p/480+1k0/2Ft
8305	310431106091	Cable 10p/680/10p
8308	310431108061	Cable 2p3/120/Inlet
8316	310431108191	Cable 12p/1200/12p
8319	310431112481	Cable 14p/400/14p
8321	313917100211	Cable 8p/480+480/4+4p
8B12	313917100141	Cable 09P/560+400/3+6P
8B13	313917100161	Cable PH 08P/400/08P
8M01	310431112371	Cable 3p/80/3p
8M20	310431104341	Cable 7p/560/7p
8N01	313913109961	Cable 21p/300/21p
8R01	313913109781	Cable FX15 41p/280/51p
8R04	310431108031	Cable 11p/480/11p

10.2 Small Signal Board [B]

Table 10-9 SSB: 32 and 42PFL7762D/05 (3139 268 52891)

Item	Philips 12NC	Description
0233	313918758541	Top shield assy
0237	313918758531	Bottom shield assy
0476	310430312201	EMC foam 2.3x2.3x32.5
1101	311229714001	Tuner TD1316AF/IHP-2
1102	932204272682	SAW 38MHz9 K3953M
1103	242254944341	SAW 38MHz9 K9656M
1104	242254301386	Xtal 4MHz00 20pF SMD-49
1301	242254301526	Crystal 12pF 10MHz
1304	242202518131	Conn. 11p m 2.00 Wh
1305	242202518129	Conn. 10p m 2.00 Wh
1314	242202605905	Sock. Phone 1p f 3.5
1411	242254301461	Xtal 18.432MHz 12pF
1504	242202520251	Sock. SCART 21p f Bk
1506	242202520251	Sock. SCART 21p f Bk
1601	242203300675	Sock. 2p f CINCH/MDIN
1615	242202605985	Sock. CINCH 4p f 2L2
2112	202055200211	22uF 10% 16V 1210
2113	319801731030	10nF 20% 50V 0603
2117	319801731030	10nF 20% 50V 0603
2118	319801731030	10nF 20% 50V 0603
2120	202055200211	22uF 10% 16V 1210
2121	319801631590	15pF 10% 50V 0603
2122	319801631590	15pF 10% 50V 0603
2123	319801731520	1.5nF 20% 50V 0603
2125	319801744740	470pF 5% 10V 0603
2126	319801742240	220nF 16V Y5V 0603
2127	319801632290	22pF 10% 50V 0603
2128	319801731030	10nF 20% 50V 0603
2129	202055200211	22uF 10% 16V 1210
2130	319801731030	10nF 20% 50V 0603
2131	202055200211	22uF 10% 16V 1210
2132	202055200211	22uF 10% 16V 1210
2133	319801731030	10nF 20% 50V 0603
2136	319801744740	470pF 5% 10V 0603
2137	319801731030	10nF 20% 50V 0603
2138	319801731030	10nF 20% 50V 0603
2139	319801633910	390pF 50V NP0 0603
2143	319801731020	1nF 50V 0603
2145	319801731020	1nF 50V 0603
2146	319801741050	1uF 5% 10V 0603
2147	223878619856	330nF 20% 160V 0603
2148	319801731040	100nF 16V 0603
2149	319802752280	2.2uF 10V X5R 0603
2310	319801731040	100nF 16V 0603
2311	202055200291	10uF 20% 6.3V 0603
2312	319801731040	100nF 16V 0603
2313	319801731040	100nF 16V 0603
2314	319801631590	15pF 10% 50V 0603
2315	319801731040	100nF 16V 0603
2316	319801631590	15pF 10% 50V 0603
2317	319801731040	100nF 16V 0603
2318	319801731040	100nF 16V 0603
2320	319801731040	100nF 16V 0603
2323	319801731040	100nF 16V 0603
2324	202055296807	1uF 5% 10V 0603
2327	319801731030	10nF 20% 50V 0603
2329	319801731020	1nF 50V 0603
2330	319801731020	1nF 50V 0603
2331	319801731020	1nF 50V 0603
2332	319801731020	1nF 50V 0603
2333	319801731020	1nF 50V 0603
2335	319801731020	1nF 50V 0603
2336	319801731020	1nF 50V 0603
2337	319801731020	1nF 50V 0603
2338	319801732240	220nF 20% 10V 0603
2341	319802341040	100nF 10% 100V 0603
2408	319801734710	470pF 50V X7R 0603
2409	319801731520	1.5nF 20% 50V 0603
2410	202002100215	220uF 20% 25V
2411	202055200291	10uF 20% 6.3V 0603
2412	319801632210	220pF 10% 50V 0603
2413	319801632210	220pF 10% 50V 0603
2414	202055200291	10uF 20% 6.3V 0603
2415	319801633380	3.3pF 50V 0603
2416	319801633380	3.3pF 50V 0603
2417	319801733310	330pF 50V X7R 0603
2418	319801733310	330pF 50V X7R 0603
2419	319801731040	100nF 16V 0603
2420	319803041090	10pF 20% 16V
2421	319801633310	330pF 1% 50V 0603
2422	319801633310	330pF 1% 50V 0603
2423	319803041090	10pF 20% 16V
2424	202055200291	10uF 20% 6.3V 0603
2425	202055200291	10uF 20% 6.3V 0603
2426	202055200291	10uF 20% 6.3V 0603
2427	202055200291	10uF 20% 6.3V 0603
2428	319801631010	100pF 10% 50V 0603
2429	319801631010	100pF 10% 50V 0603
2430	319801631010	100pF 10% 50V 0603
2431	319801631010	100pF 10% 50V 0603
2432	319801635690	56pF 10% 50V 0603
2433	319801633310	330pF 1% 50V 0603
2434	319801633310	330pF 1% 50V 0603
2435	319801633310	330pF 1% 50V 0603
2436	202055200291	10uF 20% 6.3V 0603
2437	202055200291	10uF 20% 6.3V 0603
2438	319801731040	100nF 16V 0603
2439	202055200247	470nF 10% 25V 0603
2440	202055200247	470nF 10% 25V 0603
2441	319801731520	1.5nF 20% 50V 0603
2442	319801734710	470pF 50V X7R 0603
2443	319801731520	1.5nF 20% 50V 0603
2444	319801734710	470pF 50V X7R 0603
2445	319801731040	100nF 16V 0603
2502	319801733310	330pF 50V X7R 0603
2506	319801733310	330pF 50V X7R 0603
2508	319801733310	330pF 50V X7R 0603
2509	319801732240	220nF 20% 10V 0603
2512	319801731020	1nF 50V 0603
2514	319801733310	330pF 50V X7R 0603
2515	319801732240	220nF 20% 10V 0603
2517	319801731020	1nF 50V 0603
2518	319801732240	220nF 20% 10V 0603
2520	319801731020	1nF 50V 0603
2521	319801732240	220nF 20% 10V 0603
2523	319801731020	1nF 50V 0603
2525	319801732240	220nF 20% 10V 0603
2533	319801732240	220nF 20% 10V 0603
2534	319801732240	220nF 20% 10V 0603
2536	319801732240	220nF 20% 10V 0603
2607	319801732240	220nF 20% 10V 0603
2608	319801733320	3.3nF 50V 0603
2610	319801732240	220nF 20% 10V 0603
2612	319801733320	3.3nF 50V 0603
2613	319801731040	100nF 16V 0603
2614	319801731040	100nF 16V 0603
2615	319801731040	100nF 16V 0603
2901	319801633390	33pF 50V NP0 0603
2902	319801744740	470pF 5% 10V 0603
2904	319801744740	470pF 5% 10V 0603
2905	319801633390	33pF 50V NP0 0603
2907	319801744740	470pF 5% 10V 0603
2908	319801732240	220nF 20% 10V 0603
2913	319801732240	220nF 20% 10V 0603
2915	319803024790	47uF 20% 6.3V
2916	319803024790	47uF 20% 6.3V
3110	319802138220	8.2k Ohm 5% 0.062W 0603
3111	319802135620	5.6k Ohm 5% 0.062W 0603
3113	319802136820	6.8k Ohm 5% 0603
3115	319802133930	39k Ohm 5% 0.062W 0605
3117	319802132220	2.2k Ohm 5% 0603
3118	319802132220	2.2k Ohm 5% 0603

Item	Philips 12NC	Description
3119	319802132230	22k Ohm 5% 0603
3123	319802133310	330 Ohm 5% 0.062W 0603
3124	319802131010	100 Ohm 5% 0.062W 0603
3125	319802131510	150 Ohm 5% 0603
3126	319802131810	180 Ohm 5% 0.062W 0603
3127	319802135620	5.6k Ohm 5% 0.062W 0603
3133	212010894132	1 Ohm 1206
3134	212010894132	1 Ohm 1206
3135	319802131590	15 Ohm 5% 0.062W 0603
3136	232276260479	47Ohm 5% 2512
3137	232276260479	47Ohm 5% 2512
3140	319802131510	150 Ohm 5% 0603
3151	319802131010	100 Ohm 5% 0.062W 0603
3152	319802131010	100 Ohm 5% 0.062W 0603
3188	319802131830	18k Ohm 5% 0603
3193	319802132230	22k Ohm 5% 0603
3194	319802132230	22k Ohm 5% 0603
3195	319802131830	18k Ohm 5% 0603
3300	319802131220	1.2k Ohm 5% 0.062W 0603
3303	319802131010	100 Ohm 5% 0.062W 0603
3306	319802131020	1k Ohm 5% 0.062W 0603
3310	319802131020	1k Ohm 5% 0.062W 0603
3313	319802133310	330 Ohm 5% 0.062W 0603
3314	319802131030	10k Ohm 5% 0.062W 0603
3315	319802131010	100 Ohm 5% 0.062W 0603
3316	319802131030	10k Ohm 5% 0.062W 0603
3317	319802133310	330 Ohm 5% 0.062W 0603
3318	319802131010	100 Ohm 5% 0.062W 0603
3319	319802131030	10k Ohm 5% 0.062W 0603
3320	319802131010	100 Ohm 5% 0.062W 0603
3322	319802131010	100 Ohm 5% 0.062W 0603
3323	319802131010	100 Ohm 5% 0.062W 0603
3324	319802131030	10k Ohm 5% 0.062W 0603
3325	319802131030	10k Ohm 5% 0.062W 0603
3329	319802131010	100 Ohm 5% 0.062W 0603
3336	319802131010	100 Ohm 5% 0.062W 0603
3338	319802131010	100 Ohm 5% 0.062W 0603
3339	319802131010	100 Ohm 5% 0.062W 0603
3340	319802131010	100 Ohm 5% 0.062W 0603
3341	319802131010	100 Ohm 5% 0.062W 0603
3343	319802131010	100 Ohm 5% 0.062W 0603
3345	319802131010	100 Ohm 5% 0.062W 0603
3346	319802131010	100 Ohm 5% 0.062W 0603
3347	319802131030	10k Ohm 5% 0.062W 0603
3348	319802134790	47 Ohm 5% 0603
3349	319802131030	10k Ohm 5% 0.062W 0603
3350	319802131030	10k Ohm 5% 0.062W 0603
3351	319802133320	3.3k Ohm 5% 0.062W 0603
3352	319802133320	3.3k Ohm 5% 0.062W 0603
3353	319802131030	10k Ohm 5% 0.062W 0603
3354	319802131010	100 Ohm 5% 0.062W 0603
3355	319802131010	100 Ohm 5% 0.062W 0603
3357	319802131010	100 Ohm 5% 0.062W 0603
3359	319802134720	4.7k Ohm 5% 0603
3360	319802134720	4.7k Ohm 5% 0603
3361	319802133320	3.3k Ohm 5% 0.062W 0603
3362	319802133320	3.3k Ohm 5% 0.062W 0603
3380	319802131010	100 Ohm 5% 0.062W 0603
3382	319802131010	100 Ohm 5% 0.062W 0603
3384	319802132290	22 Ohm 5% 0603
3386	319802131010	100 Ohm 5% 0.062W 0603
3387	319802131010	100 Ohm 5% 0.062W 0603
3388	319802131010	100 Ohm 5% 0.062W 0603
3389	319802134790	47 Ohm 5% 0603
3390	319802134790	47 Ohm 5% 0603
3391	319802134790	47 Ohm 5% 0603
3393	319802131530	15k Ohm 5% 0603
3395	319802131520	1.5k Ohm 5% 0.062W 0603
3396	319802131020	1k Ohm 5% 0.062W 0603
3397	319802134730	47k Ohm 5% 0603
3398	319802131040	100k Ohm 5% 0.062W 0603
3399	319802131030	10k Ohm 5% 0.062W 0603
3402	212010894132	1 Ohm 1206
3410	319802131010	100 Ohm 5% 0.062W 0603
3411	319802131010	100 Ohm 5% 0.062W 0603
3417	319802131010	100 Ohm 5% 0.062W 0603
3418	319802131010	100 Ohm 5% 0.062W 0603
3419	319802131010	100 Ohm 5% 0.062W 0603
3420	319802131010	100 Ohm 5% 0.062W 0603
3500	319802131510	150 Ohm 5% 0603
3502	319802131510	150 Ohm 5% 0603
3503	319802131510	150 Ohm 5% 0603
3506	319802131510	150 Ohm 5% 0603
3507	319802131510	150 Ohm 5% 0603
3508	319802133330	33k Ohm 5% 0.062W 0603
3510	319802131510	150 Ohm 5% 0603
3511	319802133330	33k Ohm 5% 0.062W 0603
3512	319802131510	150 Ohm 5% 0603
3513	319802133330	33k Ohm 5% 0.062W 0603
3514	319802131510	150 Ohm 5% 0603
3515	319802133330	33k Ohm 5% 0.062W 0603
3516	319802131010	100 Ohm 5% 0.062W 0603
3517	319802137590	75 Ohm 5% 0603
3518	319802132730	27k Ohm 5% 0603
3519	319802131590	15 Ohm 5% 0.062W 0603
3520	319802136820	6.8k Ohm 5% 0603
3521	319802131020	1k Ohm 5% 0.062W 0603
3522	319802136890	68 Ohm 5% 0.062W 0603
3523	319802131010	100 Ohm 5% 0.062W 0603
3524	319802131590	15 Ohm 5% 0.062W 0603
3525	319802131020	1k Ohm 5% 0.062W 0603
3526	319802137590	75 Ohm 5% 0603
3528	319802131010	100 Ohm 5% 0.062W 0603
3529	319802131010	100 Ohm 5% 0.062W 0603
3530	319802137590	75 Ohm 5% 0603
3531	319802137590	75 Ohm 5% 0603
3532	319802131020	1k Ohm 5% 0.062W 0603
3533	319802137590	75 Ohm 5% 0603
3535	319802136890	68 Ohm 5% 0.062W 0603
3536	319802131020	1k Ohm 5% 0.062W 0603
3537	319802131020	1k Ohm 5% 0.062W 0603
3538	319802134720	4.7k Ohm 5% 0603
3540	319802134720	4.7k Ohm 5% 0603
3545	319802131010	100 Ohm 5% 0.062W 0603
3546	319802137590	75 Ohm 5% 0603
3550	319802132730	27k Ohm 5% 0603
3551	319802136820	6.8k Ohm 5% 0603
3552	319802131010	100 Ohm 5% 0.062W 0603
3553	319802137590	75 Ohm 5% 0603
3554	319802136890	68 Ohm 5% 0.062W 0603
3555	319802136890	68 Ohm 5% 0.062W 0603
3600	319802131010	100 Ohm 5% 0.062W 0603
3601	319802137590	75 Ohm 5% 0603
3602	319802131010	100 Ohm 5% 0.062W 0603
3603	319802137590	75 Ohm 5% 0603
3604	319802137590	75 Ohm 5% 0603
3605	319802137590	75 Ohm 5% 0603
3607	319802131510	150 Ohm 5% 0603
3608	319802133330	33k Ohm 5% 0.062W 0603
3609	319802137590	75 Ohm 5% 0603
3611	319802131510	150 Ohm 5% 0603
3612	319802133330	33k Ohm 5% 0.062W 0603
3617	319802133390	33 Ohm 5% 0.062W 0603
3618	319802133390	33 Ohm 5% 0.062W 0603
3619	319802133390	33 Ohm 5% 0.062W 0603
3620	319802134720	4.7k Ohm 5% 0603
3901	319802134730	47k Ohm 5% 0603
3902	232270260124	120k Ohm 5% 0603
3904	319802133390	33 Ohm 5% 0.062W 0603
3905	319802134730	47k Ohm 5% 0603
3906	319802131040	100k Ohm 5% 0.062W 0603
3907	319802131040	100k Ohm 5% 0.062W 0603
3908	232270260124	120k Ohm 5% 0603
3910	319802133390	33 Ohm 5% 0.062W 0603
3911	319802131030	10k Ohm 5% 0.062W 0603
3912	319802131030	10k Ohm 5% 0.062W 0603
3913	319802131020	1k Ohm 5% 0.062W 0603
3914	319802131020	1k Ohm 5% 0.062W 0603
3915	319802131020	1k Ohm 5% 0.062W 0603
3916	319802131020	1k Ohm 5% 0.062W 0603
3917	319802131020	1k Ohm 5% 0.062W 0603
3918	319802131020	1k Ohm 5% 0.062W 0603
3942	319802131030	10k Ohm 5% 0.062W 0603
3943	319802132230	22k Ohm 5% 0603
4112	319802190030	Jumper 0603
4115	319802190030	Jumper 0603
4116	319802190030	Jumper 0603
4117	319802190030	Jumper 0603
4118	319802190030	Jumper 0603
4119	319802190030	Jumper 0603
4123	319802190030	Jumper 0603
4124	319802190030	Jumper 0603
4125	319802190030	Jumper 0603
4309	319802190030	Jumper 0603
4310	319802190030	Jumper 0603
4316	319802190030	Jumper 0603
4326	319802190030	Jumper 0603
4401	319802190030	Jumper 0603
4402	319802190030	Jumper 0603
4409	319802190030	Jumper 0603
4410	319802190030	Jumper 0603
4412	319802190030	Jumper 0603
4602	319802190030	Jumper 0603
4703	319802190030	Jumper 0603
4704	319802190030	Jumper 0603
4705	319802190030	Jumper 0603
4706	319802190030	Jumper 0603
4707	319802190030	Jumper 0603
4708	319802190030	Jumper 0603
4709	319802190030	Jumper 0603
4710	319802190030	Jumper 0603
4711	319802190030	Jumper 0603
4712	319802190030	Jumper 0603
4713	319802190030	Jumper 0603
4714	319802190030	Jumper 0603
4715	319802190030	Jumper 0603
4716	319802190030	Jumper 0603
4717	319802190030	Jumper 0603
4718	319802190030	Jumper 0603
4719	319802190030	Jumper 0603
4720	319802190030	Jumper 0603
4721	319802190030	Jumper 0603
4722	319802190030	Jumper 0603
4723	319802190030	Jumper 0603
4724	319802190030	Jumper 0603
4725	319802190030	Jumper 0603
4726	319802190030	Jumper 0603
5111	242253601057	0.39uH 5% 0603
5112	242254901582	Bead 0603 33R at 100MHz
5114	242253601521	Ind. 10uH 10% 1207
5115	242253601521	Ind. 10uH 10% 1207
5118	242254901582	Bead 0603 33R at 100MHz
5120	319801890030	120 Ohm 100MHz 0603
5121	319801890030	120 Ohm 100MHz 0603
5301	242254942979	Ind. 100MHz 60Ohm 0603
5302	242254942979	Ind. 100MHz 60Ohm 0603
5304	242254901582	Bead 0603 33R at 100MHz
5306	242254943276	Ind. 100MHz 30 Ohm 0603
5401	319801890030	120 Ohm 100MHz 0603
5402	319801890030	120 Ohm 100MHz 0603
5403	319801862290	22uH 5% 1008
5601	242254901582	Bead 0603 33R at 100MHz
6103	932210737685	1SS356
6110	319801010630	BAS316
6301	319801010630	BAS316
6306	934058419115	PESD3V3L1BA
6307	934058419115	PESD3V3L1BA
6318	319802058280	BZX384-C8V2
6512	932220595685	1N4148WS-V
6513	932220595685	1N4148WS-V
6919	319801010630	BAS316
7109	319801042030	BC847B

Item	Philips 12NC	Description
7111	933715320118	74HCT4053D (PHSE
7113	935272371118	TDA9886T/V4
7114	319801042030	BC847B
7133	932210447668	L78M05CDT
7134	319801042030	BC847B
7302	935275998118	PCA9515ADP
7303	935275998118	PCA9515ADP
7308	319801042310	BC847BW
7310		For SW see item 0815
7311	932224553671	M30300SAGP
7312	932222946685	BD45275G
7314	319801042310	BC847BW
7317	319801042310	BC847BW
7322	319801044110	PDTC114ET
7323	932224685685	NL27WZ08USG
7410	932219811685	L78L08ACU
7411	932225185671	MSP4450K-VK-E8-001
7500	319801042030	BC847B
7502	319801042320	BC857BW
7503	319801042030	BC847B
7504	319801042320	BC857BW
7601	935277231125	74LVC1G3157GW
7603	319801044110	PDTC114ET
7901	932218305668	TS482ID
7902	319801042320	BC857BW
7911	319801042310	BC847BW
7912	319801042310	BC847BW
7913	319801042310	BC847BW
7914	319801042310	BC847BW
7915	319801042310	BC847BW
7916	319801042310	BC847BW
7922	319801042310	BC847BW
1A01	242202518123	Conn. 4p m 2.00 Wh
1A02	242202518122	Conn. 3p m 2.00 Wh
1A03	242202518122	Conn. 3p m 2.00 Wh
1B12	242202518125	Conn. 6p m 2.00 Wh
1B13	242202518127	Conn. 8p m 2.00 Wh
1C24	242254301624	Xtal 24MHz 18pF NX5032
1J14	242202605905	Sock. Phone 1p f 3.5
1K00	242202520413	Sock. PCMCIA 68p f 1.27
1L20	242202518126	Conn. 7p m 2.00 Wh
1M02	242203300618	Sock. HDMI 19p f SM
1M03	242203300618	Sock. HDMI 19p f SM
1N01	242202520569	Conn. 21p f 0.5
1N02	242254301517	Xtal 28M322 18pF NX5032
1R01	242202520345	Conn. 41p f 1.00 FX15S
1R02	242254945325	Bead 67 Ohm at 100MHz
1R03	242254945325	Bead 67 Ohm at 100MHz
1R04	242254945325	Bead 67 Ohm at 100MHz
1R05	242254945325	Bead 67 Ohm at 100MHz
1R06	242254945325	Bead 67 Ohm at 100MHz
1R08	242254945325	Bead 67 Ohm at 100MHz
1R09	242254945325	Bead 67 Ohm at 100MHz
1R10	242254945325	Bead 67 Ohm at 100MHz
1R11	242254945325	Bead 67 Ohm at 100MHz
1R12	242254945325	Bead 67 Ohm at 100MHz
2A01	319801731040	100nF 16V 0603
2A02	319801731040	100nF 16V 0603
2A04	202002100215	220uF 20% 25V
2A08	202002100215	220uF 20% 25V
2A09	319801731040	100nF 16V 0603
2A10	319801731040	100nF 16V 0603
2A11	319802751080	1uF 10V X5R 0603
2A12	319801632210	220pF 10% 50V 0603
2A13	319801742240	220nF 16V Y5V 0603
2A14	202055200247	470nF 10% 25V 0603
2A15	319802751080	1uF 10V X5R 0603
2A16	319802751080	1uF 10V X5R 0603
2A17	319801631020	1nF 25V 0603
2A18	319801631020	1nF 25V 0603
2A19	319801632210	220pF 10% 50V 0603
2A20	319802751080	1uF 10V X5R 0603
2A21	319801631020	1nF 25V 0603
2A22	319801731040	100nF 16V 0603

Item	Philips 12NC	Description
2A23	319801631020	1nF 25V 0603
2A24	319801731040	100nF 16V 0603
2A25	319801731530	15nF 50V 0603
2A26	319801742240	220nF 16V Y5V 0603
2A27	319801731530	15nF 50V 0603
2A28	202055200247	470nF 10% 25V 0603
2A29	319801731040	100nF 16V 0603
2A30	319801731040	100nF 16V 0603
2A31	319801631020	1nF 25V 0603
2A32	319801631020	1nF 25V 0603
2A33	319801731040	100nF 16V 0603
2A34	319801731040	100nF 16V 0603
2A35	319801631020	1nF 25V 0603
2A36	319801631020	1nF 25V 0603
2A37	319801742240	220nF 16V Y5V 0603
2A38	319801742240	220nF 16V Y5V 0603
2A40	202055200247	470nF 10% 25V 0603
2A41	319802751080	1uF 10V X5R 0603
2A45	319801631020	1nF 25V 0603
2A46	319802444730	47NF Y5V 50V 0603
2A47	319802444730	47NF Y5V 50V 0603
2A51	319801731020	1nF 50V 0603
2A53	319801731020	1nF 50V 0603
2B06	319801731020	1nF 50V 0603
2B10	319803041010	1005F 20% 16V
2B12	202055200211	22uF 10% 16V 1210
2B18	319803041090	10pF 20% 16V
2B21	319801731040	100nF 16V 0603
2B22	319803074780	4.7uF 20% 35V
2B24	319803044790	47pF 20% 16V SMD
2B25	319801732210	220pF 20% 50V 0603
2B26	319801732230	22nF 20% 25V 0603
2B27	319801731030	10nF 20% 50V 0603
2B65	319801731040	100nF 16V 0603
2B66	202001200003	4705F 16V 20% SMD
2B68	319801732210	220pF 20% 50V 0603
2C01	319801631890	18pF 1% 50V 0603
2C02	319801631890	18pF 1% 50V 0603
2C03	319802341040	100nF 10% 100V 0603
2C04	319802341040	100nF 10% 100V 0603
2C05	319802341040	100nF 10% 100V 0603
2C06	319802341040	100nF 10% 100V 0603
2C07	319802341040	100nF 10% 100V 0603
2C08	319802341040	100nF 10% 100V 0603
2C09	319802341040	100nF 10% 100V 0603
2C10	319802341040	100nF 10% 100V 0603
2C11	319802341040	100nF 10% 100V 0603
2C12	319802341040	100nF 10% 100V 0603
2C13	319802341040	100nF 10% 100V 0603
2C14	319802341040	100nF 10% 100V 0603
2C15	319802341040	100nF 10% 100V 0603
2C17	319802341040	100nF 10% 100V 0603
2C18	319802341040	100nF 10% 100V 0603
2C19	319802341040	100nF 10% 100V 0603
2C20	319802341040	100nF 10% 100V 0603
2C21	319802341040	100nF 10% 100V 0603
2C22	319801731040	100nF 16V 0603
2C23	202055200291	10uF 20% 6.3V 0603
2C24	319801731040	100nF 16V 0603
2C25	319801731040	100nF 16V 0603
2C26	319801731040	100nF 16V 0603
2C27	202055200291	10uF 20% 6.3V 0603
2C28	319801731040	100nF 16V 0603
2C29	202055200291	10uF 20% 6.3V 0603
2C30	319802341040	100nF 10% 100V 0603
2C81	223858615628	2.7nF 10% 50V 0603
2C82	223858615628	2.7nF 10% 50V 0603
2D02	319801731040	100nF 16V 0603
2D03	319801731040	100nF 16V 0603
2D04	319801731030	10nF 20% 50V 0603
2D08	319801731030	10nF 20% 50V 0603
2D09	319801731030	10nF 20% 50V 0603
2D10	319801731040	100nF 16V 0603
2D11	319801634710	470pF 10% 50V 0603

Item	Philips 12NC	Description
2D12	319801634710	470pF 10% 50V 0603
2D14	319801731030	10nF 20% 50V 0603
2D18	202055200291	10uF 20% 6.3V 0603
2D31	319801731040	100nF 16V 0603
2D32	319801731040	100nF 16V 0603
2D33	319801731040	100nF 16V 0603
2D34	319801731040	100nF 16V 0603
2D37	319801731040	100nF 16V 0603
2D38	319801731040	100nF 16V 0603
2D39	319801731040	100nF 16V 0603
2D43	319801634710	470pF 10% 50V 0603
2D46	202055200291	10uF 20% 6.3V 0603
2D57	319801731030	10nF 20% 50V 0603
2D58	319801731030	10nF 20% 50V 0603
2D59	319801731030	10nF 20% 50V 0603
2D60	319801634710	470pF 10% 50V 0603
2D71	319803022290	ELCAP 6V3 22UF
2D72	319801731030	10nF 20% 50V 0603
2E01	202055200291	10uF 20% 6.3V 0603
2E02	319801731040	100nF 16V 0603
2E03	202055200291	10uF 20% 6.3V 0603
2E04	319801731040	100nF 16V 0603
2E05	202055200291	10uF 20% 6.3V 0603
2E06	319801731040	100nF 16V 0603
2E07	319801731040	100nF 16V 0603
2E08	319801731040	100nF 16V 0603
2E09	319801731040	100nF 16V 0603
2E10	202055200291	10uF 20% 6.3V 0603
2E11	319801731040	100nF 16V 0603
2E12	202055200291	10uF 20% 6.3V 0603
2E13	319801631010	100pF 10% 50V 0603
2E14	319801631010	100pF 10% 50V 0603
2E15	319801631010	100pF 10% 50V 0603
2E16	319801631010	100pF 10% 50V 0603
2E17	319801631010	100pF 10% 50V 0603
2E18	319801631010	100pF 10% 50V 0603
2E19	319801731040	100nF 16V 0603
2E20	202055200291	10uF 20% 6.3V 0603
2E21	319801731040	100nF 16V 0603
2E22	202055200291	10uF 20% 6.3V 0603
2E23	319801731040	100nF 16V 0603
2E24	202055200291	10uF 20% 6.3V 0603
2E25	319801731040	100nF 16V 0603
2E26	202055200291	10uF 20% 6.3V 0603
2E27	319801731040	100nF 16V 0603
2E28	202055200291	10uF 20% 6.3V 0603
2E29	319801731040	100nF 16V 0603
2E30	202055200291	10uF 20% 6.3V 0603
2E31	319801731040	100nF 16V 0603
2E32	202055200291	10uF 20% 6.3V 0603
2E33	319801731040	100nF 16V 0603
2E34	202055200291	10uF 20% 6.3V 0603
2E35	319801731040	100nF 16V 0603
2E36	319801731040	100nF 16V 0603
2E37	319801731040	100nF 16V 0603
2E38	319801731040	100nF 16V 0603
2E39	319801731040	100nF 16V 0603
2E40	319801731040	100nF 16V 0603
2E41	319801731040	100nF 16V 0603
2E42	319801731040	100nF 16V 0603
2E43	202055200291	10uF 20% 6.3V 0603
2E44	319801731040	100nF 16V 0603
2E45	319801731040	100nF 16V 0603
2E46	319801731040	100nF 16V 0603
2E47	319801731040	100nF 16V 0603
2E48	202055200291	10uF 20% 6.3V 0603
2E49	319801731040	100nF 16V 0603
2E50	319801731040	100nF 16V 0603
2E51	319801731040	100nF 16V 0603
2E52	319801731040	100nF 16V 0603
2E53	319801731040	100nF 16V 0603
2E54	319801731040	100nF 16V 0603
2E55	319801731040	100nF 16V 0603
2E56	319801731040	100nF 16V 0603

Item	Philips 12NC	Description
2E57	202055200291	10uF 20% 6.3V 0603
2E58	319801731040	100nF 16V 0603
2E66	202055200291	10uF 20% 6.3V 0603
2E67	319801731040	100nF 16V 0603
2E68	319802702290	22uF 10% 6.3V 0805
2E69	319801731040	100nF 16V 0603
2E70	319802702290	22uF 10% 6.3V 0805
2E71	319802702290	22uF 10% 6.3V 0805
2E72	319801731040	100nF 16V 0603
2E75	319801634710	470pF 10% 50V 0603
2E76	319801634710	470pF 10% 50V 0603
2F10	319801731040	100nF 16V 0603
2F11	319803044790	47pF 20% 16V SMD
2F12	319801731040	100nF 16V 0603
2F13	319801731040	100nF 16V 0603
2F14	319801731040	100nF 16V 0603
2F15	319801731040	100nF 16V 0603
2F16	319801731040	100nF 16V 0603
2F17	319801731040	100nF 16V 0603
2F18	319801731040	100nF 16V 0603
2F19	319801731040	100nF 16V 0603
2F20	319801731040	100nF 16V 0603
2F21	319803044790	47pF 20% 16V SMD
2F22	319801731040	100nF 16V 0603
2F23	319801731040	100nF 16V 0603
2F24	319801731040	100nF 16V 0603
2F25	319801731040	100nF 16V 0603
2F26	319801731040	100nF 16V 0603
2F27	319801731040	100nF 16V 0603
2F28	319801731040	100nF 16V 0603
2F29	319801731040	100nF 16V 0603
2F30	319801731040	100nF 16V 0603
2F31	319801731040	100nF 16V 0603
2F32	319801731040	100nF 16V 0603
2F33	319801631090	10pF 10% 50V 0603
2G02	319803041090	10pF 20% 16V
2G03	319801731040	100nF 16V 0603
2G04	319801731040	100nF 16V 0603
2G05	319801731040	100nF 16V 0603
2G06	319801731040	100nF 16V 0603
2G07	319801731040	100nF 16V 0603
2G08	319801731040	100nF 16V 0603
2G09	319801731040	100nF 16V 0603
2G10	319801731040	100nF 16V 0603
2G11	319801731040	100nF 16V 0603
2G12	319801731040	100nF 16V 0603
2G13	319801731040	100nF 16V 0603
2G14	319801731040	100nF 16V 0603
2G15	319801731040	100nF 16V 0603
2G16	319801731040	100nF 16V 0603
2G17	319803041090	10pF 20% 16V
2G18	319803041090	10pF 20% 16V
2G19	319801731040	100nF 16V 0603
2G20	319801731040	100nF 16V 0603
2G21	319801731040	100nF 16V 0603
2G22	319803041090	10pF 20% 16V
2G23	319803041090	10pF 20% 16V
2G24	319803041090	10pF 20% 16V
2G32	319801731040	100nF 16V 0603
2G33	319803041090	10pF 20% 16V
2H03	319801731040	100nF 16V 0603
2H04	319801731040	100nF 16V 0603
2H06	319803041090	10pF 20% 16V
2H07	319803041090	10pF 20% 16V
2H08	319801731040	100nF 16V 0603
2H09	319801731040	100nF 16V 0603
2H10	319801731040	100nF 16V 0603
2H11	319801731040	100nF 16V 0603
2H12	319801731040	100nF 16V 0603
2H13	319801731040	100nF 16V 0603
2H14	319801732240	220nF 20% 10V 0603
2H15	319801732240	220nF 20% 10V 0603
2J01	319803041090	10pF 20% 16V
2J02	319801731040	100nF 16V 0603

Item	Philips 12NC	Description
2J04	319803042290	22uF 20% 16V
2J05	319803041010	1005F 20% 16V
2J06	319801731040	100nF 16V 0603
2J62	319801636890	CER1 0603 NP0 50V 68P
2J63	319801631810	180pF 10% 50V 0603
2J66	319801631810	180pF 10% 50V 0603
2J67	319801636890	CER1 0603 NP0 50V 68P
2J69	319801631810	180pF 10% 50V 0603
2J70	319801636890	CER1 0603 NP0 50V 68P
2J72	319801631810	180pF 10% 50V 0603
2J73	319801636890	CER1 0603 NP0 50V 68P
2K00	319801731040	100nF 16V 0603
2K01	319801731040	100nF 16V 0603
2K02	319801731040	100nF 16V 0603
2K03	319801731040	100nF 16V 0603
2K04	319801731040	100nF 16V 0603
2K05	319801731040	100nF 16V 0603
2K06	319803041090	10pF 20% 16V
2K07	319803041090	10pF 20% 16V
2K08	319801731040	100nF 16V 0603
2K09	319801731040	100nF 16V 0603
2K10	319801731040	100nF 16V 0603
2K11	319803041090	10pF 20% 16V
2K12	319801731040	100nF 16V 0603
2K13	319803041090	10pF 20% 16V
2K14	319801731020	1nF 50V 0603
2K15	319801631010	100pF 10% 50V 0603
2K16	319801734730	47nF 10% 16V 0603
2K17	319801734730	47nF 10% 16V 0603
2L24	319801732240	220nF 20% 10V 0603
2L25	319801732240	220nF 20% 10V 0603
2M01	202055200291	10uF 20% 6.3V 0603
2M02	202055200291	10uF 20% 6.3V 0603
2M03	319801731040	100nF 16V 0603
2M04	319801731040	100nF 16V 0603
2M05	319801731040	100nF 16V 0603
2M06	319801731040	100nF 16V 0603
2M07	202055200291	10uF 20% 6.3V 0603
2M08	202055200291	10uF 20% 6.3V 0603
2M09	319801731040	100nF 16V 0603
2M10	319801731040	100nF 16V 0603
2M11	319803041010	1005F 20% 16V
2M12	319801731040	100nF 16V 0603
2M15	202055200291	10uF 20% 6.3V 0603
2M16	319801731040	100nF 16V 0603
2M17	319801731040	100nF 16V 0603
2M19	319801731040	100nF 16V 0603
2M20	319801731040	100nF 16V 0603
2M21	319801731040	100nF 16V 0603
2N03	319803024790	47uF 20% 6.3V
2N04	319801731040	100nF 16V 0603
2N05	319801731040	100nF 16V 0603
2N06	319803024790	47uF 20% 6.3V
2N07	319801731030	10nF 20% 50V 0603
2N08	319801731030	10nF 20% 50V 0603
2N09	202055200291	10uF 20% 6.3V 0603
2N10	202055200291	10uF 20% 6.3V 0603
2N11	319803024790	47uF 20% 6.3V
2N12	319801731040	100nF 16V 0603
2N13	319801631890	18pF 1% 50V 0603
2N14	319801631890	18pF 1% 50V 0603
2N15	319801631020	1nF 25V 0603
2N16	319801731040	100nF 16V 0603
2N17	319802341040	100nF 10% 100V 0603
2N18	319801731020	1nF 50V 0603
2N20	319802341040	100nF 10% 100V 0603
2N25	319801631020	1nF 25V 0603
2N26	319801731020	1nF 50V 0603
2N27	319802341040	100nF 10% 100V 0603
2N28	319801731020	1nF 50V 0603
2N29	319801731020	1nF 50V 0603
2N30	319802341040	100nF 10% 100V 0603
2N31	319801731020	1nF 50V 0603
2N32	319801731020	1nF 50V 0603

Item	Philips 12NC	Description
2N33	319802341040	100nF 10% 100V 0603
2N34	319801731020	1nF 50V 0603
2N35	319802341040	100nF 10% 100V 0603
2N36	319801731040	100nF 16V 0603
2N37	319802341040	100nF 10% 100V 0603
2N38	319801731020	1nF 50V 0603
2N39	319801731020	1nF 50V 0603
2N40	319802341040	100nF 10% 100V 0603
2N41	319801731020	1nF 50V 0603
2N42	319801731020	1nF 50V 0603
2N43	319801731020	1nF 50V 0603
2N44	319801731040	100nF 16V 0603
2N45	319801731020	1nF 50V 0603
2N46	319801731020	1nF 50V 0603
2N47	319801731040	100nF 16V 0603
2N48	319801731020	1nF 50V 0603
2N49	319801631020	1nF 25V 0603
2N50	319802341040	100nF 10% 100V 0603
2N51	319801731020	1nF 50V 0603
2N52	319801731020	1nF 50V 0603
2N53	319801731040	100nF 16V 0603
2N54	319801631020	1nF 25V 0603
2N55	319801731020	1nF 50V 0603
2N56	319802341040	100nF 10% 100V 0603
2N58	319801731020	1nF 50V 0603
2N59	319801731020	1nF 50V 0603
2N60	319801731020	1nF 50V 0603
2N61	319801731020	1nF 50V 0603
2N62	319801731020	1nF 50V 0603
2N63	319801731020	1nF 50V 0603
2N64	319802341040	100nF 10% 100V 0603
2N66	319801731020	1nF 50V 0603
2N67	319801731040	100nF 16V 0603
2P07	319801731040	100nF 16V 0603
2P28	202055200211	22uF 10% 16V 1210
2P29	202055200211	22uF 10% 16V 1210
2P30	202055200211	22uF 10% 16V 1210
2P31	202055200169	1uF 25V Y5V 0603
2P32	319801733320	3.3nF 50V 0603
2P33	319801733320	3.3nF 50V 0603
2P34	202055200211	22uF 10% 16V 1210
2P35	319801731020	1nF 50V 0603
2P36	319801731040	100nF 16V 0603
2P37	319801733320	3.3nF 50V 0603
2P38	319801731020	1nF 50V 0603
2P39	319801731040	100nF 16V 0603
2P40	319801731040	100nF 16V 0603
2P41	319801731040	100nF 16V 0603
2P42	319801731040	100nF 16V 0603
2P43	319801733320	3.3nF 50V 0603
2P46	319803011010	100uF 20% 4V
2P48	319801631010	100pF 10% 50V 0603
2P49	319801631010	100pF 10% 50V 0603
2P52	319801731020	1nF 50V 0603
2P53	319801731020	1nF 50V 0603
2P54	319801731040	100nF 16V 0603
2P55	319803011010	100uF 20% 4V
2P56	319803011010	100uF 20% 4V
2P59	319803011010	100uF 20% 4V
2P61	202055200211	22uF 10% 16V 1210
2P68	319803011010	100uF 20% 4V
2P72	319803011010	100uF 20% 4V
2P73	319801732230	22nF 20% 25V 0603
2P78	202055200169	1uF 25V Y5V 0603
2R10	202055296448	1uF 10% 16V 0805
2R11	319803044790	47pF 20% 16V SMD
2R12	319801731040	100nF 16V 0603
3A01	212010894133	10 Ohm 5% 1206
3A02	212010894133	10 Ohm 5% 1206
3A03	319802131030	10k Ohm 5% 0.062W 0603
3A04	319802131230	12k Ohm 5% 0.062W 0603
3A05	232276260229	22 Ohm 5% 2512
3A06	319802131030	10k Ohm 5% 0.062W 0603
3A07	319802131030	10k Ohm 5% 0.062W 0603

Item	Philips 12NC	Description
3A08	319802131230	12k Ohm 5% 0.062W 0603
3A09	319802131090	TDA8932T/N1 IC
3A11	319802131030	10k Ohm 5% 0.062W 0603
3A12	319802131050	1M Ohm 5% 0603
3A13	319802133930	39k Ohm 5% 0.062W 0605
3A14	232276260229	22 Ohm 5% 2512
3A15	319802131050	1M Ohm 5% 0603
3A17	319802131090	TDA8932T/N1 IC
3A19	319802131030	10k Ohm 5% 0.062W 0603
3A26	319802134720	4.7k Ohm 5% 0603
3A27	319802132240	220k Ohm 5% 0603
3A28	319802132240	220k Ohm 5% 0603
3A29	319802134730	47k Ohm 5% 0603
3A30	319802134730	47k Ohm 5% 0603
3A31	319802131030	10k Ohm 5% 0.062W 0603
3B12	232270461502	1k5 1% 0603
3B17	319802136820	6.8k Ohm 5% 0603
3B18	319802136820	6.8k Ohm 5% 0603
3B19	319802136820	6.8k Ohm 5% 0603
3B65	319802134720	4.7k Ohm 5% 0603
3B66	232270461002	1k Ohm 1% 0603
3B68	319802131010	100 Ohm 5% 0.062W 0603
3C01	319802131050	1M Ohm 5% 0603
3C02	319802133390	33 Ohm 5% 0.062W 0603
3C03	319803111010	4*100 Ohm 5% 1206
3C04	319803111010	4*100 Ohm 5% 1206
3C05	319803111010	4*100 Ohm 5% 1206
3C06	319803111010	4*100 Ohm 5% 1206
3C08	319802131010	100 Ohm 5% 0.062W 0603
3C09	319802131010	100 Ohm 5% 0.062W 0603
3C10	319802132290	22 Ohm 5% 0603
3C19	232270464701	470 Ohm 1% 0603
3C20	319802131020	1k Ohm 5% 0.062W 0603
3C22	319802134720	4.7k Ohm 5% 0603
3C23	319802132210	220 Ohm 5% 0603
3C24	319802131010	100 Ohm 5% 0.062W 0603
3C25	319802131030	10k Ohm 5% 0.062W 0603
3C40	319802134720	4.7k Ohm 5% 0603
3C41	319802134720	4.7k Ohm 5% 0603
3C42	319802134720	4.7k Ohm 5% 0603
3D01	319803112290	4*22 Ohm 5% 1206
3D02	319803112290	4*22 Ohm 5% 1206
3D05	319803112290	4*22 Ohm 5% 1206
3D06	319803112290	4*22 Ohm 5% 1206
3D09	319802131590	15 Ohm 5% 0.062W 0603
3D10	232270465109	51 Ohm 1% 0603
3D11	319802131590	15 Ohm 5% 0.062W 0603
3D14	232270465109	51 Ohm 1% 0603
3D15	319802131020	1k Ohm 5% 0.062W 0603
3D16	319802131020	1k Ohm 5% 0.062W 0603
3D38	319802131590	15 Ohm 5% 0.062W 0603
3D40	319802131590	15 Ohm 5% 0.062W 0603
3D43	319803112290	4*22 Ohm 5% 1206
3D44	319803112290	4*22 Ohm 5% 1206
3D47	319803112290	4*22 Ohm 5% 1206
3D48	319803112290	4*22 Ohm 5% 1206
3E02	319802132290	22 Ohm 5% 0603
3E04	319802132290	22 Ohm 5% 0603
3E06	319802134720	4.7k Ohm 5% 0603
3E07	319802190030	Jumper 0603
3F10	319802134710	470 Ohm 5% 0603
3F11	319802136840	680k Ohm 5% 0.062W 0603
3F12	319802133310	330 Ohm 5% 0.062W 0603
3F13	319802132240	220k Ohm 5% 0603
3F14	319802133310	330 Ohm 5% 0.062W 0603
3F15	319802136840	680k Ohm 5% 0.062W 0603
3F16	319802133910	390 Ohm 5% 0.062W 0603
3F17	319802132240	220k Ohm 5% 0603
3F18	319802131030	10k Ohm 5% 0.062W 0603
3F19	319802134720	4.7k Ohm 5% 0603
3F20	319802134720	4.7k Ohm 5% 0603
3F21	319802133390	33 Ohm 5% 0.062W 0603
3F23	319802134720	4.7k Ohm 5% 0603
3F24	319802131040	100k Ohm 5% 0.062W 0603
3F25	319802131040	100k Ohm 5% 0.062W 0603
3F26	319802131020	1k Ohm 5% 0.062W 0603
3F28	319802131040	100k Ohm 5% 0.062W 0603
3F29	319802131040	100k Ohm 5% 0.062W 0603
3F30	319802133390	33 Ohm 5% 0.062W 0603
3F31	319803113390	4*33 Ohm 5% 1206
3F32	319803113390	4*33 Ohm 5% 1206
3F33	319802131030	10k Ohm 5% 0.062W 0603
3F34	319803113390	4*33 Ohm 5% 1206
3F40	319802131010	100 Ohm 5% 0.062W 0603
3F41	319802132720	2.7k Ohm 5% 0603
3F42	319802132720	2.7k Ohm 5% 0603
3F44	319802131010	100 Ohm 5% 0.062W 0603
3F46	319802131010	100 Ohm 5% 0.062W 0603
3F48	319802131010	100 Ohm 5% 0.062W 0603
3G11	319802131030	10k Ohm 5% 0.062W 0603
3G12	319802131030	10k Ohm 5% 0.062W 0603
3G16	319802131030	10k Ohm 5% 0.062W 0603
3G17	319802131030	10k Ohm 5% 0.062W 0603
3G19	319802131030	10k Ohm 5% 0.062W 0603
3G20	319802131030	10k Ohm 5% 0.062W 0603
3G28	319802131030	10k Ohm 5% 0.062W 0603
3G30	319802131030	10k Ohm 5% 0.062W 0603
3G31	319802131030	10k Ohm 5% 0.062W 0603
3G33	319802132290	22 Ohm 5% 0603
3G34	319802132290	22 Ohm 5% 0603
3G35	319802132290	22 Ohm 5% 0603
3G37	319802131030	10k Ohm 5% 0.062W 0603
3G38	319802131030	10k Ohm 5% 0.062W 0603
3G40	232270461202	1.2k Ohm 1%
3G41	319802131030	10k Ohm 5% 0.062W 0603
3G43	319802131010	100 Ohm 5% 0.062W 0603
3G44	319802131010	100 Ohm 5% 0.062W 0603
3G46	319802131010	100 Ohm 5% 0.062W 0603
3G47	319802131010	100 Ohm 5% 0.062W 0603
3G48	319802133390	33 Ohm 5% 0.062W 0603
3G54	319802131030	10k Ohm 5% 0.062W 0603
3G56	319803113390	4*33 Ohm 5% 1206
3G57	319803113390	4*33 Ohm 5% 1206
3G58	319803113390	4*33 Ohm 5% 1206
3G59	319803113390	4*33 Ohm 5% 1206
3G60	319802133390	33 Ohm 5% 0.062W 0603
3G61	319802133390	33 Ohm 5% 0.062W 0603
3G62	319802133390	33 Ohm 5% 0.062W 0603
3G63	319802131030	10k Ohm 5% 0.062W 0603
3H00	319802133320	3.3k Ohm 5% 0.062W 0603
3H05	319802131030	10k Ohm 5% 0.062W 0603
3H09	319802131010	100 Ohm 5% 0.062W 0603
3H10	319802131010	100 Ohm 5% 0.062W 0603
3H11	319802131030	10k Ohm 5% 0.062W 0603
3H12	319802133320	3.3k Ohm 5% 0.062W 0603
3H13	319802133320	3.3k Ohm 5% 0.062W 0603
3H14	212010894132	1 Ohm 1206
3J01	319802132230	22k Ohm 5% 0603
3J02	319802131230	12k Ohm 5% 0.062W 0603
3J03	319802131010	100 Ohm 5% 0.062W 0603
3J59	319802131810	180 Ohm 5% 0.062W 0603
3J60	319802134790	47 Ohm 5% 0603
3J61	319802131810	180 Ohm 5% 0.062W 0603
3J62	319802134790	47 Ohm 5% 0603
3J63	319802131810	180 Ohm 5% 0.062W 0603
3J64	319802134790	47 Ohm 5% 0603
3J65	319802131810	180 Ohm 5% 0.062W 0603
3J66	319802134790	47 Ohm 5% 0603
3K00	319802131010	100 Ohm 5% 0.062W 0603
3K01	319802131010	100 Ohm 5% 0.062W 0603
3K02	319803113390	4*33 Ohm 5% 1206
3K03	319803113390	4*33 Ohm 5% 1206
3K04	319802131030	10k Ohm 5% 0.062W 0603
3K05	319803113390	4*33 Ohm 5% 1206
3K06	319802131030	10k Ohm 5% 0.062W 0603
3K07	319802131030	10k Ohm 5% 0.062W 0603
3K08	319802131030	10k Ohm 5% 0.062W 0603
3K09	319802131030	10k Ohm 5% 0.062W 0603
3K10	319802131030	10k Ohm 5% 0.062W 0603
3K11	319802131030	10k Ohm 5% 0.062W 0603
3K12	319802131030	10k Ohm 5% 0.062W 0603
3K13	232270462002	2k Ohm 1% 0603
3K15	319802131030	10k Ohm 5% 0.062W 0603
3K16	319802131030	10k Ohm 5% 0.062W 0603
3K17	319802131030	10k Ohm 5% 0.062W 0603
3K18	319802131030	10k Ohm 5% 0.062W 0603
3K19	319802131030	10k Ohm 5% 0.062W 0603
3K20	319802131030	10k Ohm 5% 0.062W 0603
3K21	319802131030	10k Ohm 5% 0.062W 0603
3K22	319802131030	10k Ohm 5% 0.062W 0603
3K23	319803113390	4*33 Ohm 5% 1206
3K24	319803113390	4*33 Ohm 5% 1206
3K25	319802133390	33 Ohm 5% 0.062W 0603
3K26	319802133390	33 Ohm 5% 0.062W 0603
3K27	319802134790	47 Ohm 5% 0603
3K28	319802134790	47 Ohm 5% 0603
3K29	319802134790	47 Ohm 5% 0603
3K30	319802134790	47 Ohm 5% 0603
3K31	319802134790	47 Ohm 5% 0603
3K32	319802134790	47 Ohm 5% 0603
3K33	319802134790	47 Ohm 5% 0603
3K34	319803114790	4*47 Ohm 5% 1206
3K38	319802134790	47 Ohm 5% 0603
3K39	319802134790	47 Ohm 5% 0603
3K40	319802134790	47 Ohm 5% 0603
3K41	319802134790	47 Ohm 5% 0603
3K42	319802134790	47 Ohm 5% 0603
3K43	319802134790	47 Ohm 5% 0603
3K44	319802134790	47 Ohm 5% 0603
3K45	319802134790	47 Ohm 5% 0603
3K46	319802134790	47 Ohm 5% 0603
3K47	319802134790	47 Ohm 5% 0603
3K48	319802134790	47 Ohm 5% 0603
3K49	319802133390	33 Ohm 5% 0.062W 0603
3K50	319802133390	33 Ohm 5% 0.062W 0603
3K51	319802134720	4.7k Ohm 5% 0603
3K52	319802134720	4.7k Ohm 5% 0603
3L01	319802134720	4.7k Ohm 5% 0603
3L02	319802131010	100 Ohm 5% 0.062W 0603
3L03	319802131030	10k Ohm 5% 0.062W 0603
3L04	319802131520	1.5k Ohm 5% 0.062W 0603
3L05	319802131010	100 Ohm 5% 0.062W 0603
3L10	212010894132	1 Ohm 1206
3L11	319802131010	100 Ohm 5% 0.062W 0603
3L15	319802133310	330 Ohm 5% 0.062W 0603
3L16	319802131020	1k Ohm 5% 0.062W 0603
3L17	319802131010	100 Ohm 5% 0.062W 0603
3L22	319802190030	Jumper 0603
3L23	319802190030	Jumper 0603
3L28	319802134720	4.7k Ohm 5% 0603
3L53	319802131010	100 Ohm 5% 0.062W 0603
3L54	319802131010	100 Ohm 5% 0.062W 0603
3L55	319802131030	10k Ohm 5% 0.062W 0603
3L56	319802131010	100 Ohm 5% 0.062W 0603
3L57	319802131010	100 Ohm 5% 0.062W 0603
3L58	319802131010	100 Ohm 5% 0.062W 0603
3L59	319802131010	100 Ohm 5% 0.062W 0603
3L60	319802131010	100 Ohm 5% 0.062W 0603
3L61	319802131010	100 Ohm 5% 0.062W 0603
3L62	319802131010	100 Ohm 5% 0.062W 0603
3L63	319802131010	100 Ohm 5% 0.062W 0603
3L67	319802131010	100 Ohm 5% 0.062W 0603
3L71	319802132290	22 Ohm 5% 0603
3L72	319802134730	47k Ohm 5% 0603
3L73	319802134730	47k Ohm 5% 0603
3L75	319802132220	2.2k Ohm 5% 0603
3L76	319802132220	2.2k Ohm 5% 0603
3L79	319802131030	10k Ohm 5% 0.062W 0603
3L86	319802132230	22k Ohm 5% 0603
3L94	319802134720	4.7k Ohm 5% 0603
3L95	319802134720	4.7k Ohm 5% 0603
3L96	319802131040	100k Ohm 5% 0.062W 0603

Item	Philips 12NC	Description
3M07	319802131010	100 Ohm 5% 0.062W 0603
3M08	319802132220	2.2k Ohm 5% 0603
3M09	319802134720	4.7k Ohm 5% 0603
3M10	319802134710	470 Ohm 5% 0603
3M13	319802131010	100 Ohm 5% 0.062W 0603
3M14	319802131010	100 Ohm 5% 0.062W 0603
3M15	319802131010	100 Ohm 5% 0.062W 0603
3M20	319802131010	100 Ohm 5% 0.062W 0603
3M21	319802131010	100 Ohm 5% 0.062W 0603
3M31	319802132220	2.2k Ohm 5% 0603
3M32	319802138230	82k Ohm 5% 0.062W 0603
3M34	319802134720	4.7k Ohm 5% 0603
3M37	319802134730	47k Ohm 5% 0603
3M38	319802134730	47k Ohm 5% 0603
3M39	319802134730	47k Ohm 5% 0603
3M40	319802134730	47k Ohm 5% 0603
3N01	319802133390	33 Ohm 5% 0.062W 0603
3N02	319803113390	4*33 Ohm 5% 1206
3N03	319802133390	33 Ohm 5% 0.062W 0603
3N04	319803113390	4*33 Ohm 5% 1206
3N05	319802133390	33 Ohm 5% 0.062W 0603
3N06	319803113390	4*33 Ohm 5% 1206
3N07	319802133390	33 Ohm 5% 0.062W 0603
3N08	319803113390	4*33 Ohm 5% 1206
3N09	319802133390	33 Ohm 5% 0.062W 0603
3N10	319802133390	33 Ohm 5% 0.062W 0603
3N11	319803113390	4*33 Ohm 5% 1206
3N12	319803113390	4*33 Ohm 5% 1206
3N13	319802133390	33 Ohm 5% 0.062W 0603
3N14	319802133390	33 Ohm 5% 0.062W 0603
3N15	319802133390	33 Ohm 5% 0.062W 0603
3N16	319802133390	33 Ohm 5% 0.062W 0603
3N18	319803113390	4*33 Ohm 5% 1206
3N22	319802133390	33 Ohm 5% 0.062W 0603
3N23	212010894132	1 Ohm 1206
3N24	319802131050	1M Ohm 5% 0603
3N25	319802132210	220 Ohm 5% 0603
3N26	319802132210	220 Ohm 5% 0603
3N27	212010894132	1 Ohm 1206
3N33	319802134720	4.7k Ohm 5% 0603
3N34	319802134720	4.7k Ohm 5% 0603
3N35	319802134720	4.7k Ohm 5% 0603
3N36	319802134720	4.7k Ohm 5% 0603
3N37	319802134720	4.7k Ohm 5% 0603
3N38	319802134720	4.7k Ohm 5% 0603
3N39	319802131010	100 Ohm 5% 0.062W 0603
3N40	319802131010	100 Ohm 5% 0.062W 0603
3P13	319802131090	TDA8932T/N1 IC
3P20	212010894133	10 Ohm 5% 1206
3P23	319802131090	TDA8932T/N1 IC
3P25	319802131090	TDA8932T/N1 IC
3P26	319802132280	2R2 5% 0603
3P32	319802132280	2R2 5% 0603
3P34	319802133320	3.3k Ohm 5% 0.062W 0603
3P37	319802136820	6.8k Ohm 5% 0603
3P38	319802131020	1k Ohm 5% 0.062W 0603
3P40	319802133930	39k Ohm 5% 0.062W 0605
3P41	319802136820	6.8k Ohm 5% 0603
3P45	319802136820	6.8k Ohm 5% 0603
3P47	319802136890	68 Ohm 5% 0.062W 0603
3P48	319802136890	68 Ohm 5% 0.062W 0603
3P49	319802132210	220 Ohm 5% 0603
3P50	319802131020	1k Ohm 5% 0.062W 0603
3P51	232270461801	180 Ohm 1% 0603
3P53	232270466801	680 Ohm 1% 0603
3P54	319802131030	10k Ohm 5% 0.062W 0603
3P56	232270464701	470 Ohm 1% 0603
3P59	232270464701	470 Ohm 1% 0603
3P61	319802131090	TDA8932T/N1 IC
3P64	232270466801	680 Ohm 1% 0603
3P68	319802136820	6.8k Ohm 5% 0603
3P69	319802136820	6.8k Ohm 5% 0603
3P70	319802133320	3.3k Ohm 5% 0.062W 0603
3P71	319802136820	6.8k Ohm 5% 0603

Item	Philips 12NC	Description
3P72	319802136820	6.8k Ohm 5% 0603
3P74	319802136820	6.8k Ohm 5% 0603
3P77	232270461002	1k Ohm 1% 0603
3P78	319802131020	1k Ohm 5% 0.062W 0603
3R10	319802134730	47k Ohm 5% 0603
3R12	319802134790	47 Ohm 5% 0603
3R13	319802134730	47k Ohm 5% 0603
3R25	319802131010	100 Ohm 5% 0.062W 0603
3R26	319802131010	100 Ohm 5% 0.062W 0603
4B04	319802190030	Jumper 0603
4B05	319802190030	Jumper 0603
4B06	319802190030	Jumper 0603
4B07	319802190030	Jumper 0603
4C07	319802190030	Jumper 0603
4F12	319802190030	Jumper 0603
4G01	319802190030	Jumper 0603
4G02	319802190030	Jumper 0603
4G03	319802190030	Jumper 0603
4G04	319802190030	Jumper 0603
4G09	319802190030	Jumper 0603
4G31	319802190030	Jumper 0603
4H00	319802190030	Jumper 0603
4H02	319802190030	Jumper 0603
4H04	319802190030	Jumper 0603
4H05	319802190030	Jumper 0603
4H12	319802190030	Jumper 0603
4J14	319802190030	Jumper 0603
4J15	319802190030	Jumper 0603
4L20	319802190030	Jumper 0603
4L24	319802190030	Jumper 0603
4L25	319802190030	Jumper 0603
4L26	319802190030	Jumper 0603
4M01	319802190030	Jumper 0603
4M04	319802190030	Jumper 0603
4M05	319802190030	Jumper 0603
4M07	319802190030	Jumper 0603
4M08	319802190030	Jumper 0603
4M09	319802190030	Jumper 0603
4M11	319802190030	Jumper 0603
4N02	319802190030	Jumper 0603
4N03	319802190030	Jumper 0603
4N04	319802190030	Jumper 0603
4N05	319802190030	Jumper 0603
4N06	319802190030	Jumper 0603
4N07	319802190030	Jumper 0603
4N08	319802190030	Jumper 0603
4P01	319802190030	Jumper 0603
4P02	319802190030	Jumper 0603
4R02	319802190030	Jumper 0603
4R03	319802190030	Jumper 0603
4R04	319802190030	Jumper 0603
4R05	319802190030	Jumper 0603
4R06	319802190030	Jumper 0603
4R07	319802190030	Jumper 0603
4R08	319802190030	Jumper 0603
5A03	242253601564	22uF 20%
5A04	242253601564	22uF 20%
5A05	242254942958	Bead 0805 30R at 100MHz
5A06	242254942958	Bead 0805 30R at 100MHz
5A07	242254901582	Bead 0603 33R at 100MHz
5A08	242253594134	105H 20% 0805
5A09	242253594134	105H 20% 0805
5B01	242253594134	105H 20% 0805
5B05	242253601564	22uF 20%
5B08	242253600779	105uH 20%
5C06	242254901582	Bead 0603 33R at 100MHz
5C07	242254901582	Bead 0603 33R at 100MHz
5C08	242254901582	Bead 0603 33R at 100MHz
5D03	242254901582	Bead 0603 33R at 100MHz
5E03	242254901582	Bead 0603 33R at 100MHz
5E04	242254901582	Bead 0603 33R at 100MHz
5E05	242254901582	Bead 0603 33R at 100MHz
5E06	242254901582	Bead 0603 33R at 100MHz
5E07	242254901582	Bead 0603 33R at 100MHz

Item	Philips 12NC	Description
5E08	242254901582	Bead 0603 33R at 100MHz
5E09	242254901582	Bead 0603 33R at 100MHz
5E10	242254901582	Bead 0603 33R at 100MHz
5E11	242254901582	Bead 0603 33R at 100MHz
5E12	242254901582	Bead 0603 33R at 100MHz
5E13	242254901582	Bead 0603 33R at 100MHz
5E14	242254901582	Bead 0603 33R at 100MHz
5E16	242254901582	Bead 0603 33R at 100MHz
5E17	242254901582	Bead 0603 33R at 100MHz
5F10	242254942979	Ind. 100MHz 60Ohm 0603
5F11	242254942979	Ind. 100MHz 60Ohm 0603
5G04	242254942979	Ind. 100MHz 60Ohm 0603
5G05	242254901582	Bead 0603 33R at 100MHz
5G06	242254901582	Bead 0603 33R at 100MHz
5G07	242254901582	Bead 0603 33R at 100MHz
5H01	242254942979	Ind. 100MHz 60Ohm 0603
5H02	242254942979	Ind. 100MHz 60Ohm 0603
5H03	242254942979	Ind. 100MHz 60Ohm 0603
5J01	242254942979	Ind. 100MHz 60Ohm 0603
5J52	319801853380	3.35H 10% 0603
5J53	319801853380	3.35H 10% 0603
5J54	319801853380	3.35H 10% 0603
5J55	319801853380	3.35H 10% 0603
5K01	242254942979	Ind. 100MHz 60Ohm 0603
5K02	242254942979	Ind. 100MHz 60Ohm 0603
5K03	242254942979	Ind. 100MHz 60Ohm 0603
5K04	242254942979	Ind. 100MHz 60Ohm 0603
5K05	242254942979	Ind. 100MHz 60Ohm 0603
5M01	242254901582	Bead 0603 33R at 100MHz
5M02	242254901582	Bead 0603 33R at 100MHz
5M03	242254901582	Bead 0603 33R at 100MHz
5N01	242254942896	Ind. 120 Ohm 100MHz
5N02	242254942896	Ind. 120 Ohm 100MHz
5N03	242254942896	Ind. 120 Ohm 100MHz
5N04	242254942896	Ind. 120 Ohm 100MHz
5N05	242254942896	Ind. 120 Ohm 100MHz
5N06	242254942896	Ind. 120 Ohm 100MHz
5N07	242254942896	Ind. 120 Ohm 100MHz
5N08	242254942896	Ind. 120 Ohm 100MHz
5N09	242254942896	Ind. 120 Ohm 100MHz
5P01	242253600671	10uH 20%
5P02	242253594134	105H 20% 0805
5P09	242253600671	10uH 20%
5R02	242254901582	Bead 0603 33R at 100MHz
5R03	242254901582	Bead 0603 33R at 100MHz
6B30	319801010720	SS24
6J03	319801010630	BAS316
6J14	934058419115	PESD3V3L1BA
6J15	934058419115	PESD3V3L1BA
6M08	319801010660	BAT54
6P05	319802056880	BZX384-C6V8
6P12	319802056880	BZX384-C6V8
6P13	319801010630	BAS316
6P14	319801010630	BAS316
6P15	319802051890	BZX384-C18
6R02	319802055680	BZX384-C5V6
7A01	935279642118	TDA8932T/N1
7A05	319801042320	BC857BW
7A06	319801042310	BC847BW
7A07	319801042310	BC847BW
7B01	932220234668	L5973D
7B02	932211988668	LD1117DT33C
7B12	932221214668	SI4423DY
7C01	932224957671	SVP WX68-7568-LF
7C02	319801042310	BC847BW
7C04	319801042310	BC847BW
7D01	932225195671	K4D261638K-LC40
7D02	932225195671	K4D261638K-LC40
7F01	935273245518	TDA10046AHT/C1
7F02	935263016165	74AHC1GU04GW
7F03	935263016165	74AHC1GU04GW
7F04	319801070580	LM393D
7G00	935277355557	PNX8314HS/C102
7H00		For SW see item 0851

Item	Philips 12NC	Description
7H02	932224127668	K4S281632I-UC60
7H03		For SW see item 0852
7J04	932221400668	SI2301BDS-E3
7J05	319801044110	PDTC114ET
7K00	932222791671	STV0700L
7K01	935219010118	74LVC573ADB
7K02	935219010118	74LVC573ADB
7K03	319801070650	74LVC245APW
7K04	272217100207	Xtal 27MHz 50P
7K05	932217513668	ST890CD
7L10	319801042310	BC847BW
7L23		For SW see item 0816
7M01	932216761668	LF18CD
7M04	319801042310	BC847BW
7M07	932225506671	SII9185ACTU
7M09	319801042310	BC847BW
7N01	932225010671	SII9125CTU
7N07	935266839118	UDA1334ATS/N2
7P05	319801044340	BC817-25W
7P06	932216070668	SI4936ADY-E3
7P07	932216070668	SI4936ADY-E3
7P08	932221350685	TS431AIL
7P09	934057587118	PHD38N02LT
7P11	932220746668	NCP5422AD
7R05	932220471668	SI4835BDY
7R07	319801044110	PDTC114ET

Table 10-10 SSB: 32 and 42PFL7762D/12 (3139 268 52511)

Item	Philips 12NC	Description
0214	313918758551	ASSY IO plate
0215	313912132441	IO plate LCO7S
0233	313918758541	Top shield assy
0237	313918758531	Bottom shield assy
1101	311229714001	Tuner TD1316AF/IHP-2
1102	932204272682	SAW 38MHz9 K3953M
1103	242254944341	SAW 38MHz9 K9656M
1104	242254301386	Xtal 4MHz00 20pF SMD-49
1301	242254301526	Crystal 12pF 10MHz
1304	242202518131	Conn. 11p m 2.00 Wh
1305	242202518129	Conn. 10p m 2.00 Wh
1314	242202605905	Sock. Phone 1p f 3.5
1411	242254301461	Xtal 18.432MHz 12pF
1504	242202520251	Sock. SCART 21p f Bk
1506	242202520251	Sock. SCART 21p f Bk
1601	242203300675	Sock. 2p f CINCH/MDIN
1615	242202605985	Sock. CINCH 4p f 2L2
2112	202055200211	22uF 10% 16V 1210
2113	319801731030	10nF 20% 50V 0603
2117	319801731030	10nF 20% 50V 0603
2118	319801731030	10nF 20% 50V 0603
2120	202055200211	22uF 10% 16V 1210
2121	319801631590	15pF 10% 50V 0603
2122	319801631590	15pF 10% 50V 0603
2123	319801731520	1.5nF 20% 50V 0603
2125	319801744740	470pF 5% 10V 0603
2126	319801742240	220nF 16V Y5V 0603
2127	319801632290	22pF 10% 50V 0603
2128	319801731030	10nF 20% 50V 0603
2129	202055200211	22uF 10% 16V 1210
2130	319801731030	10nF 20% 50V 0603
2131	202055200211	22uF 10% 16V 1210
2132	202055200211	22uF 10% 16V 1210
2133	319801731030	10nF 20% 50V 0603
2136	319801744740	470pF 5% 10V 0603
2137	319801731030	10nF 20% 50V 0603
2138	319801731030	10nF 20% 50V 0603
2139	319801633910	390pF 50V NP0 0603
2143	319801731020	1nF 50V 0603
2145	319801731020	1nF 50V 0603
2146	319801741050	1uF 5% 10V 0603
2147	223878619856	330nF 20% 160V 0603
2148	319801731040	100nF 16V 0603
2149	319802752280	2.2uF 10V X5R 0603
2310	319801731040	100nF 16V 0603
2311	202055200291	10uF 20% 6.3V 0603
2312	319801731040	100nF 16V 0603
2313	319801731040	100nF 16V 0603
2314	319801631590	15pF 10% 50V 0603
2315	319801731040	100nF 16V 0603
2316	319801631590	15pF 10% 50V 0603
2317	319801731040	100nF 16V 0603
2318	319801731040	100nF 16V 0603
2320	319801731040	100nF 16V 0603
2323	319801731040	100nF 16V 0603
2324	202055296807	1uF 5% 10V 0603
2327	319801731030	10nF 20% 50V 0603
2329	319801731020	1nF 50V 0603
2330	319801731020	1nF 50V 0603
2331	319801731020	1nF 50V 0603
2332	319801731020	1nF 50V 0603
2333	319801731020	1nF 50V 0603
2335	319801731020	1nF 50V 0603
2336	319801731020	1nF 50V 0603
2337	319801731020	1nF 50V 0603
2338	319801732240	220nF 20% 10V 0603
2341	319802341040	100nF 10% 100V 0603
2408	319801734710	470pF 50V X7R 0603
2409	319801731520	1.5nF 20% 50V 0603
2410	202002100215	220uF 20% 25V
2411	202055200291	10uF 20% 6.3V 0603
2412	319801632210	220pF 10% 50V 0603
2413	319801632210	220pF 10% 50V 0603
2414	202055200291	10uF 20% 6.3V 0603
2415	319801633380	3.3pF 50V 0603
2416	319801633380	3.3pF 50V 0603
2417	319801733310	330pF 50V X7R 0603
2418	319801733310	330pF 50V X7R 0603
2419	319801731040	100nF 16V 0603
2420	319803041090	10pF 20% 16V
2421	319801633310	330pF 1% 50V 0603
2422	319801633310	330pF 1% 50V 0603
2423	319803041090	10pF 20% 16V
2424	202055200291	10uF 20% 6.3V 0603
2425	202055200291	10uF 20% 6.3V 0603
2426	202055200291	10uF 20% 6.3V 0603
2427	202055200291	10uF 20% 6.3V 0603
2428	319801631010	100pF 10% 50V 0603
2429	319801631010	100pF 10% 50V 0603
2430	319801631010	100pF 10% 50V 0603
2431	319801631010	100pF 10% 50V 0603
2432	319801635690	56pF 10% 50V 0603
2433	319801633310	330pF 1% 50V 0603
2434	319801633310	330pF 1% 50V 0603
2435	319801633310	330pF 1% 50V 0603
2436	202055200291	10uF 20% 6.3V 0603
2437	202055200291	10uF 20% 6.3V 0603
2438	319801731040	100nF 16V 0603
2439	202055200247	470nF 10% 25V 0603
2440	202055200247	470nF 10% 25V 0603
2441	319801731520	1.5nF 20% 50V 0603
2442	319801734710	470pF 50V X7R 0603
2443	319801731520	1.5nF 20% 50V 0603
2444	319801734710	470pF 50V X7R 0603
2445	319801731040	100nF 16V 0603
2502	319801733310	330pF 50V X7R 0603
2506	319801733310	330pF 50V X7R 0603
2508	319801733310	330pF 50V X7R 0603
2509	319801732240	220nF 20% 10V 0603
2512	319801731020	1nF 50V 0603
2514	319801733310	330pF 50V X7R 0603
2515	319801732240	220nF 20% 10V 0603
2517	319801731020	1nF 50V 0603
2518	319801732240	220nF 20% 10V 0603
2520	319801731020	1nF 50V 0603
2521	319801732240	220nF 20% 10V 0603
2523	319801731020	1nF 50V 0603
2525	319801732240	220nF 20% 10V 0603
2533	319801732240	220nF 20% 10V 0603
2534	319801732240	220nF 20% 10V 0603
2536	319801732240	220nF 20% 10V 0603
2607	319801732240	220nF 20% 10V 0603
2608	319801733320	3.3nF 50V 0603
2610	319801732240	220nF 20% 10V 0603
2612	319801733320	3.3nF 50V 0603
2613	319801731040	100nF 16V 0603
2614	319801731040	100nF 16V 0603
2615	319801731040	100nF 16V 0603
2901	319801633390	33pF 50V NP0 0603
2902	319801744740	470pF 5% 10V 0603
2904	319801744740	470pF 5% 10V 0603
2905	319801633390	33pF 50V NP0 0603
2907	319801744740	470pF 5% 10V 0603
2908	319801732240	220nF 20% 10V 0603
2913	319801732240	220nF 20% 10V 0603
2915	319803024790	47uF 20% 6.3V
2916	319803024790	47uF 20% 6.3V
3110	319802138220	8.2k Ohm 5% 0.062W 0603
3111	319802135620	5.6k Ohm 5% 0.062W 0603
3113	319802136820	6.8k Ohm 5% 0603
3115	319802133930	39k Ohm 5% 0.062W 0605
3117	319802132220	2.2k Ohm 5% 0603
3118	319802132220	2.2k Ohm 5% 0603
3119	319802132230	22k Ohm 5% 0603

Item	Philips 12NC	Description
3123	319802133310	330 Ohm 5% 0.062W 0603
3124	319802131010	100 Ohm 5% 0.062W 0603
3125	319802131510	150 Ohm 5% 0603
3126	319802131810	180 Ohm 5% 0.062W 0603
3127	319802135620	5.6k Ohm 5% 0.062W 0603
3133	212010894132	1 Ohm 1206
3134	212010894132	1 Ohm 1206
3135	319802131590	15 Ohm 5% 0.062W 0603
3136	232276260479	47Ohm 5% 2512
3137	232276260479	47Ohm 5% 2512
3140	319802131510	150 Ohm 5% 0603
3151	319802131010	100 Ohm 5% 0.062W 0603
3152	319802131010	100 Ohm 5% 0.062W 0603
3188	319802131830	18k Ohm 5% 0603
3193	319802132230	22k Ohm 5% 0603
3194	319802132230	22k Ohm 5% 0603
3195	319802131830	18k Ohm 5% 0603
3300	319802131220	1.2k Ohm 5% 0.062W 0603
3303	319802131010	100 Ohm 5% 0.062W 0603
3306	319802131020	1k Ohm 5% 0.062W 0603
3310	319802131020	1k Ohm 5% 0.062W 0603
3313	319802133310	330 Ohm 5% 0.062W 0603
3314	319802131030	10k Ohm 5% 0.062W 0603
3315	319802131010	100 Ohm 5% 0.062W 0603
3316	319802131030	10k Ohm 5% 0.062W 0603
3317	319802133310	330 Ohm 5% 0.062W 0603
3318	319802131010	100 Ohm 5% 0.062W 0603
3319	319802131030	10k Ohm 5% 0.062W 0603
3320	319802131010	100 Ohm 5% 0.062W 0603
3322	319802131010	100 Ohm 5% 0.062W 0603
3323	319802131010	100 Ohm 5% 0.062W 0603
3324	319802131030	10k Ohm 5% 0.062W 0603
3325	319802131030	10k Ohm 5% 0.062W 0603
3329	319802131010	100 Ohm 5% 0.062W 0603
3336	319802131010	100 Ohm 5% 0.062W 0603
3338	319802131010	100 Ohm 5% 0.062W 0603
3339	319802131010	100 Ohm 5% 0.062W 0603
3340	319802131010	100 Ohm 5% 0.062W 0603
3341	319802131010	100 Ohm 5% 0.062W 0603
3343	319802131010	100 Ohm 5% 0.062W 0603
3345	319802131010	100 Ohm 5% 0.062W 0603
3346	319802131010	100 Ohm 5% 0.062W 0603
3347	319802131030	10k Ohm 5% 0.062W 0603
3348	319802134790	47 Ohm 5% 0603
3349	319802131030	10k Ohm 5% 0.062W 0603
3350	319802131030	10k Ohm 5% 0.062W 0603
3351	319802133320	3.3k Ohm 5% 0.062W 0603
3352	319802133320	3.3k Ohm 5% 0.062W 0603
3353	319802131030	10k Ohm 5% 0.062W 0603
3354	319802131010	100 Ohm 5% 0.062W 0603
3355	319802131010	100 Ohm 5% 0.062W 0603
3357	319802131010	100 Ohm 5% 0.062W 0603
3359	319802134720	4.7k Ohm 5% 0603
3360	319802134720	4.7k Ohm 5% 0603
3361	319802133320	3.3k Ohm 5% 0.062W 0603
3362	319802133320	3.3k Ohm 5% 0.062W 0603
3380	319802131010	100 Ohm 5% 0.062W 0603
3382	319802131010	100 Ohm 5% 0.062W 0603
3384	319802132290	22 Ohm 5% 0603
3386	319802131010	100 Ohm 5% 0.062W 0603
3387	319802131010	100 Ohm 5% 0.062W 0603
3388	319802131010	100 Ohm 5% 0.062W 0603
3389	319802134790	47 Ohm 5% 0603
3390	319802134790	47 Ohm 5% 0603
3391	319802134790	47 Ohm 5% 0603
3393	319802131530	15k Ohm 5% 0603
3395	319802131520	1.5k Ohm 5% 0.062W 0603
3396	319802131020	1k Ohm 5% 0.062W 0603
3397	319802134730	47k Ohm 5% 0603
3398	319802131040	100k Ohm 5% 0.062W 0603
3399	319802131030	10k Ohm 5% 0.062W 0603
3402	212010894132	1 Ohm 1206
3410	319802131010	100 Ohm 5% 0.062W 0603
3411	319802131010	100 Ohm 5% 0.062W 0603
3417	319802131010	100 Ohm 5% 0.062W 0603
3418	319802131010	100 Ohm 5% 0.062W 0603
3419	319802131010	100 Ohm 5% 0.062W 0603
3420	319802131010	100 Ohm 5% 0.062W 0603
3500	319802131510	150 Ohm 5% 0603
3502	319802131510	150 Ohm 5% 0603
3503	319802131510	150 Ohm 5% 0603
3506	319802131510	150 Ohm 5% 0603
3507	319802131510	150 Ohm 5% 0603
3508	319802133330	33k Ohm 5% 0.062W 0603
3510	319802131510	150 Ohm 5% 0603
3511	319802133330	33k Ohm 5% 0.062W 0603
3512	319802131510	150 Ohm 5% 0603
3513	319802133330	33k Ohm 5% 0.062W 0603
3514	319802131510	150 Ohm 5% 0603
3515	319802133330	33k Ohm 5% 0.062W 0603
3516	319802131010	100 Ohm 5% 0.062W 0603
3517	319802137590	75 Ohm 5% 0603
3518	319802132730	27k Ohm 5% 0603
3519	319802131590	15 Ohm 5% 0.062W 0603
3520	319802136820	6.8k Ohm 5% 0603
3521	319802131020	1k Ohm 5% 0.062W 0603
3522	319802136890	68 Ohm 5% 0.062W 0603
3523	319802131010	100 Ohm 5% 0.062W 0603
3524	319802131590	15 Ohm 5% 0.062W 0603
3525	319802131020	1k Ohm 5% 0.062W 0603
3526	319802137590	75 Ohm 5% 0603
3528	319802131010	100 Ohm 5% 0.062W 0603
3529	319802131010	100 Ohm 5% 0.062W 0603
3530	319802137590	75 Ohm 5% 0603
3531	319802137590	75 Ohm 5% 0603
3532	319802131020	1k Ohm 5% 0.062W 0603
3533	319802137590	75 Ohm 5% 0603
3535	319802136890	68 Ohm 5% 0.062W 0603
3536	319802131020	1k Ohm 5% 0.062W 0603
3537	319802131020	1k Ohm 5% 0.062W 0603
3538	319802134720	4.7k Ohm 5% 0603
3540	319802134720	4.7k Ohm 5% 0603
3545	319802131010	100 Ohm 5% 0.062W 0603
3546	319802137590	75 Ohm 5% 0603
3550	319802132730	27k Ohm 5% 0603
3551	319802136820	6.8k Ohm 5% 0603
3552	319802131010	100 Ohm 5% 0.062W 0603
3553	319802137590	75 Ohm 5% 0603
3554	319802136890	68 Ohm 5% 0.062W 0603
3555	319802136890	68 Ohm 5% 0.062W 0603
3600	319802131010	100 Ohm 5% 0.062W 0603
3601	319802137590	75 Ohm 5% 0603
3602	319802131010	100 Ohm 5% 0.062W 0603
3603	319802137590	75 Ohm 5% 0603
3604	319802137590	75 Ohm 5% 0603
3605	319802137590	75 Ohm 5% 0603
3607	319802131510	150 Ohm 5% 0603
3608	319802133330	33k Ohm 5% 0.062W 0603
3609	319802137590	75 Ohm 5% 0603
3611	319802131510	150 Ohm 5% 0603
3612	319802133330	33k Ohm 5% 0.062W 0603
3617	319802133390	33 Ohm 5% 0.062W 0603
3618	319802133390	33 Ohm 5% 0.062W 0603
3619	319802133390	33 Ohm 5% 0.062W 0603
3620	319802134720	4.7k Ohm 5% 0603
3901	319802134730	47k Ohm 5% 0603
3902	232270260124	120k Ohm 5% 0603
3904	319802133390	33 Ohm 5% 0.062W 0603
3905	319802134730	47k Ohm 5% 0603
3906	319802131040	100k Ohm 5% 0.062W 0603
3907	319802131040	100k Ohm 5% 0.062W 0603
3908	232270260124	120k Ohm 5% 0603
3910	319802133390	33 Ohm 5% 0.062W 0603
3911	319802131030	10k Ohm 5% 0.062W 0603
3912	319802131030	10k Ohm 5% 0.062W 0603
3913	319802131020	1k Ohm 5% 0.062W 0603
3914	319802131020	1k Ohm 5% 0.062W 0603
3915	319802131020	1k Ohm 5% 0.062W 0603
3916	319802131020	1k Ohm 5% 0.062W 0603
3917	319802131020	1k Ohm 5% 0.062W 0603
3918	319802131020	1k Ohm 5% 0.062W 0603
3942	319802131030	10k Ohm 5% 0.062W 0603
3943	319802132230	22k Ohm 5% 0603
4112	319802190030	Jumper 0603
4115	319802190030	Jumper 0603
4116	319802190030	Jumper 0603
4117	319802190030	Jumper 0603
4118	319802190030	Jumper 0603
4119	319802190030	Jumper 0603
4123	319802190030	Jumper 0603
4124	319802190030	Jumper 0603
4125	319802190030	Jumper 0603
4309	319802190030	Jumper 0603
4310	319802190030	Jumper 0603
4316	319802190030	Jumper 0603
4326	319802190030	Jumper 0603
4401	319802190030	Jumper 0603
4402	319802190030	Jumper 0603
4409	319802190030	Jumper 0603
4410	319802190030	Jumper 0603
4412	319802190030	Jumper 0603
4602	319802190030	Jumper 0603
4703	319802190030	Jumper 0603
4704	319802190030	Jumper 0603
4705	319802190030	Jumper 0603
4706	319802190030	Jumper 0603
4707	319802190030	Jumper 0603
4708	319802190030	Jumper 0603
4709	319802190030	Jumper 0603
4710	319802190030	Jumper 0603
4711	319802190030	Jumper 0603
4712	319802190030	Jumper 0603
4713	319802190030	Jumper 0603
4714	319802190030	Jumper 0603
4715	319802190030	Jumper 0603
4716	319802190030	Jumper 0603
4717	319802190030	Jumper 0603
4718	319802190030	Jumper 0603
4719	319802190030	Jumper 0603
4720	319802190030	Jumper 0603
4721	319802190030	Jumper 0603
4722	319802190030	Jumper 0603
4723	319802190030	Jumper 0603
4724	319802190030	Jumper 0603
4725	319802190030	Jumper 0603
4726	319802190030	Jumper 0603
5111	242253601057	0.39uH 5% 0603
5112	242254901582	Bead 0603 33R at 100MHz
5114	242253601521	Ind. 10uH 10% 1207
5115	242253601521	Ind. 10uH 10% 1207
5118	242254901582	Bead 0603 33R at 100MHz
5120	319801890030	120 Ohm 100MHz 0603
5121	319801890030	120 Ohm 100MHz 0603
5301	242254942979	Ind. 100MHz 60Ohm 0603
5302	242254942979	Ind. 100MHz 60Ohm 0603
5304	242254901582	Bead 0603 33R at 100MHz
5306	242254943276	Ind. 100MHz 30 Ohm 0603
5401	319801890030	120 Ohm 100MHz 0603
5402	319801890030	120 Ohm 100MHz 0603
5403	319801862290	22uH 5% 1008
5601	242254901582	Bead 0603 33R at 100MHz
6103	932210737685	1SS356
6110	319801010630	BAS316
6301	319801010630	BAS316
6306	934058419115	PESD3V3L1BA
6307	934058419115	PESD3V3L1BA
6318	319802058280	BZX384-C8V2
6512	932220595685	1N4148WS-V
6513	932220595685	1N4148WS-V
6919	319801010630	BAS316
7109	319801042030	BC847B
7111	933715320118	74HCT4053D (PHSE

Item	Philips 12NC	Description
7113	935272371118	TDA9886T/V4
7114	319801042030	BC847B
7133	932210447668	L78M05CDT
7134	319801042030	BC847B
7302	935275998118	PCA9515ADP
7303	935275998118	PCA9515ADP
7308	319801042310	BC847BW
7310		For SW see item 0815
7311	932224553671	M30300SAGP
7312	932222946685	BD45275G
7314	319801042310	BC847BW
7317	319801042310	BC847BW
7322	319801044110	PDTC114ET
7323	932224685685	NL27WZ08USG
7410	932219811685	L78L08ACU
7411	932225185671	MSP4450K-VK-E8-001
7500	319801042030	BC847B
7502	319801042320	BC857BW
7503	319801042030	BC847B
7504	319801042320	BC857BW
7601	935277231125	74LVC1G3157GW
7603	319801044110	PDTC114ET
7901	932218305668	TS482ID
7902	319801042320	BC857BW
7911	319801042310	BC847BW
7912	319801042310	BC847BW
7913	319801042310	BC847BW
7914	319801042310	BC847BW
7915	319801042310	BC847BW
7916	319801042310	BC847BW
7922	319801042310	BC847BW
1A01	242202518123	Conn. 4p m 2.00 Wh
1A02	242202518122	Conn. 3p m 2.00 Wh
1A03	242202518122	Conn. 3p m 2.00 Wh
1B12	242202518125	Conn. 6p m 2.00 Wh
1B13	242202518127	Conn. 8p m 2.00 Wh
1C24	242254301624	Xtal 24MHz 18pF NX5032
1J14	242202605905	Sock. Phone 1p f 3.5
1K00	242202520413	Sock. PCMCIA 68p f 1.27
1L20	242202518126	Conn. 7p m 2.00 Wh
1M02	242203300618	Sock. HDMI 19p f SM
1M03	242203300618	Sock. HDMI 19p f SM
1N01	242202520569	Conn. 21p f 0.5
1N02	242254301517	Xtal 28M322 18pF NX5032
1R01	242202520345	Conn. 41p f 1.00 FX15S
1R02	242254945325	Bead 67 Ohm at 100MHz
1R03	242254945325	Bead 67 Ohm at 100MHz
1R04	242254945325	Bead 67 Ohm at 100MHz
1R05	242254945325	Bead 67 Ohm at 100MHz
1R06	242254945325	Bead 67 Ohm at 100MHz
1R08	242254945325	Bead 67 Ohm at 100MHz
1R09	242254945325	Bead 67 Ohm at 100MHz
1R10	242254945325	Bead 67 Ohm at 100MHz
1R11	242254945325	Bead 67 Ohm at 100MHz
1R12	242254945325	Bead 67 Ohm at 100MHz
2A01	319801731040	100nF 16V 0603
2A02	319801731040	100nF 16V 0603
2A04	202002100215	220uF 20% 25V
2A08	202002100215	220uF 20% 25V
2A09	319801731040	100nF 16V 0603
2A10	319801731040	100nF 16V 0603
2A11	319802751080	1uF 10V X5R 0603
2A12	319801632210	220pF 10% 50V 0603
2A13	319801742240	220nF 16V Y5V 0603
2A14	202055200247	470nF 10% 25V 0603
2A15	319802751080	1uF 10V X5R 0603
2A16	319802751080	1uF 10V X5R 0603
2A17	319801631020	1nF 25V 0603
2A18	319801631020	1nF 25V 0603
2A19	319801632210	220pF 10% 50V 0603
2A20	319802751080	1uF 10V X5R 0603
2A21	319801631020	1nF 25V 0603
2A22	319801731040	100nF 16V 0603
2A23	319801631020	1nF 25V 0603

Item	Philips 12NC	Description
2A24	319801731040	100nF 16V 0603
2A25	319801731530	15nF 50V 0603
2A26	319801742240	220nF 16V Y5V 0603
2A27	319801731530	15nF 50V 0603
2A28	202055200247	470nF 10% 25V 0603
2A29	319801731040	100nF 16V 0603
2A30	319801731040	100nF 16V 0603
2A31	319801631020	1nF 25V 0603
2A32	319801631020	1nF 25V 0603
2A33	319801731040	100nF 16V 0603
2A34	319801731040	100nF 16V 0603
2A35	319801631020	1nF 25V 0603
2A36	319801631020	1nF 25V 0603
2A37	319801742240	220nF 16V Y5V 0603
2A38	319801742240	220nF 16V Y5V 0603
2A40	202055200247	470nF 10% 25V 0603
2A41	319802751080	1uF 10V X5R 0603
2A45	319801631020	1nF 25V 0603
2A46	319802444730	47NF Y5V 50V 0603
2A47	319802444730	47NF Y5V 50V 0603
2A51	319801731020	1nF 50V 0603
2A53	319801731020	1nF 50V 0603
2B06	319801731020	1nF 50V 0603
2B10	319803041010	1005F 20% 16V
2B12	202055200211	22uF 10% 16V 1210
2B18	319803041090	10pF 20% 16V
2B21	319801731040	100nF 16V 0603
2B22	319803074780	4.7uF 20% 35V
2B24	319803044790	47pF 20% 16V SMD
2B25	319801732210	220pF 20% 50V 0603
2B26	319801732230	22nF 20% 25V 0603
2B27	319801731030	10nF 20% 50V 0603
2B65	319801731040	100nF 16V 0603
2B66	202001200003	4705F 16V 20% SMD
2B68	319801732210	220pF 20% 50V 0603
2C01	319801631890	18pF 1% 50V 0603
2C02	319801631890	18pF 1% 50V 0603
2C03	319802341040	100nF 10% 100V 0603
2C04	319802341040	100nF 10% 100V 0603
2C05	319802341040	100nF 10% 100V 0603
2C06	319802341040	100nF 10% 100V 0603
2C07	319802341040	100nF 10% 100V 0603
2C08	319802341040	100nF 10% 100V 0603
2C09	319802341040	100nF 10% 100V 0603
2C10	319802341040	100nF 10% 100V 0603
2C11	319802341040	100nF 10% 100V 0603
2C12	319802341040	100nF 10% 100V 0603
2C13	319802341040	100nF 10% 100V 0603
2C14	319802341040	100nF 10% 100V 0603
2C15	319802341040	100nF 10% 100V 0603
2C17	319802341040	100nF 10% 100V 0603
2C18	319802341040	100nF 10% 100V 0603
2C19	319802341040	100nF 10% 100V 0603
2C20	319802341040	100nF 10% 100V 0603
2C21	319802341040	100nF 10% 100V 0603
2C22	319801731040	100nF 16V 0603
2C23	202055200291	10uF 20% 6.3V 0603
2C24	319801731040	100nF 16V 0603
2C25	319801731040	100nF 16V 0603
2C26	319801731040	100nF 16V 0603
2C27	202055200291	10uF 20% 6.3V 0603
2C28	319801731040	100nF 16V 0603
2C29	202055200291	10uF 20% 6.3V 0603
2C30	319802341040	100nF 10% 100V 0603
2C81	223858615628	2.7nF 10% 50V 0603
2C82	223858615628	2.7nF 10% 50V 0603
2D02	319801731040	100nF 16V 0603
2D03	319801731040	100nF 16V 0603
2D04	319801731030	10nF 20% 50V 0603
2D08	319801731030	10nF 20% 50V 0603
2D09	319801731030	10nF 20% 50V 0603
2D10	319801731040	100nF 16V 0603
2D11	319801634710	470pF 10% 50V 0603
2D12	319801634710	470pF 10% 50V 0603

Item	Philips 12NC	Description
2D14	319801731030	10nF 20% 50V 0603
2D18	202055200291	10uF 20% 6.3V 0603
2D31	319801731040	100nF 16V 0603
2D32	319801731040	100nF 16V 0603
2D33	319801731040	100nF 16V 0603
2D34	319801731040	100nF 16V 0603
2D37	319801731040	100nF 16V 0603
2D38	319801731040	100nF 16V 0603
2D39	319801731040	100nF 16V 0603
2D43	319801634710	470pF 10% 50V 0603
2D46	202055200291	10uF 20% 6.3V 0603
2D57	319801731030	10nF 20% 50V 0603
2D58	319801731030	10nF 20% 50V 0603
2D59	319801731030	10nF 20% 50V 0603
2D60	319801634710	470pF 10% 50V 0603
2D71	319803022290	ELCAP 6V3 22UF
2D72	319801731030	10nF 20% 50V 0603
2E01	202055200291	10uF 20% 6.3V 0603
2E02	319801731040	100nF 16V 0603
2E03	202055200291	10uF 20% 6.3V 0603
2E04	319801731040	100nF 16V 0603
2E05	202055200291	10uF 20% 6.3V 0603
2E06	319801731040	100nF 16V 0603
2E07	319801731040	100nF 16V 0603
2E08	319801731040	100nF 16V 0603
2E09	319801731040	100nF 16V 0603
2E10	202055200291	10uF 20% 6.3V 0603
2E11	319801731040	100nF 16V 0603
2E12	202055200291	10uF 20% 6.3V 0603
2E13	319801631010	100pF 10% 50V 0603
2E14	319801631010	100pF 10% 50V 0603
2E15	319801631010	100pF 10% 50V 0603
2E16	319801631010	100pF 10% 50V 0603
2E17	319801631010	100pF 10% 50V 0603
2E18	319801631010	100pF 10% 50V 0603
2E19	319801731040	100nF 16V 0603
2E20	202055200291	10uF 20% 6.3V 0603
2E21	319801731040	100nF 16V 0603
2E22	202055200291	10uF 20% 6.3V 0603
2E23	319801731040	100nF 16V 0603
2E24	202055200291	10uF 20% 6.3V 0603
2E25	319801731040	100nF 16V 0603
2E26	202055200291	10uF 20% 6.3V 0603
2E27	319801731040	100nF 16V 0603
2E28	202055200291	10uF 20% 6.3V 0603
2E29	319801731040	100nF 16V 0603
2E30	202055200291	10uF 20% 6.3V 0603
2E31	319801731040	100nF 16V 0603
2E32	202055200291	10uF 20% 6.3V 0603
2E33	319801731040	100nF 16V 0603
2E34	202055200291	10uF 20% 6.3V 0603
2E35	319801731040	100nF 16V 0603
2E36	319801731040	100nF 16V 0603
2E37	319801731040	100nF 16V 0603
2E38	319801731040	100nF 16V 0603
2E39	319801731040	100nF 16V 0603
2E40	319801731040	100nF 16V 0603
2E41	319801731040	100nF 16V 0603
2E42	319801731040	100nF 16V 0603
2E43	202055200291	10uF 20% 6.3V 0603
2E44	319801731040	100nF 16V 0603
2E45	319801731040	100nF 16V 0603
2E46	319801731040	100nF 16V 0603
2E47	319801731040	100nF 16V 0603
2E48	202055200291	10uF 20% 6.3V 0603
2E49	319801731040	100nF 16V 0603
2E50	319801731040	100nF 16V 0603
2E51	319801731040	100nF 16V 0603
2E52	319801731040	100nF 16V 0603
2E53	319801731040	100nF 16V 0603
2E54	319801731040	100nF 16V 0603
2E55	319801731040	100nF 16V 0603
2E56	319801731040	100nF 16V 0603
2E57	202055200291	10uF 20% 6.3V 0603

Item	Philips 12NC	Description
2E58	319801731040	100nF 16V 0603
2E66	202055200291	10uF 20% 6.3V 0603
2E67	319801731040	100nF 16V 0603
2E68	319802702290	22uF 10% 6.3V 0805
2E69	319801731040	100nF 16V 0603
2E70	319802702290	22uF 10% 6.3V 0805
2E71	319802702290	22uF 10% 6.3V 0805
2E72	319801731040	100nF 16V 0603
2E75	319801634710	470pF 10% 50V 0603
2E76	319801634710	470pF 10% 50V 0603
2F10	319801731040	100nF 16V 0603
2F11	319803044790	47pF 20% 16V SMD
2F12	319801731040	100nF 16V 0603
2F13	319801731040	100nF 16V 0603
2F14	319801731040	100nF 16V 0603
2F15	319801731040	100nF 16V 0603
2F16	319801731040	100nF 16V 0603
2F17	319801731040	100nF 16V 0603
2F18	319801731040	100nF 16V 0603
2F19	319801731040	100nF 16V 0603
2F20	319801731040	100nF 16V 0603
2F21	319803044790	47pF 20% 16V SMD
2F22	319801731040	100nF 16V 0603
2F23	319801731040	100nF 16V 0603
2F24	319801731040	100nF 16V 0603
2F25	319801731040	100nF 16V 0603
2F26	319801731040	100nF 16V 0603
2F27	319801731040	100nF 16V 0603
2F28	319801731040	100nF 16V 0603
2F29	319801731040	100nF 16V 0603
2F30	319801731040	100nF 16V 0603
2F31	319801731040	100nF 16V 0603
2F32	319801731040	100nF 16V 0603
2F33	319801631090	10pF 10% 50V 0603
2G02	319803041090	10pF 20% 16V
2G03	319801731040	100nF 16V 0603
2G04	319801731040	100nF 16V 0603
2G05	319801731040	100nF 16V 0603
2G06	319801731040	100nF 16V 0603
2G07	319801731040	100nF 16V 0603
2G08	319801731040	100nF 16V 0603
2G09	319801731040	100nF 16V 0603
2G10	319801731040	100nF 16V 0603
2G11	319801731040	100nF 16V 0603
2G12	319801731040	100nF 16V 0603
2G13	319801731040	100nF 16V 0603
2G14	319801731040	100nF 16V 0603
2G15	319801731040	100nF 16V 0603
2G16	319801731040	100nF 16V 0603
2G17	319803041090	10pF 20% 16V
2G18	319803041090	10pF 20% 16V
2G19	319801731040	100nF 16V 0603
2G20	319801731040	100nF 16V 0603
2G21	319801731040	100nF 16V 0603
2G22	319803041090	10pF 20% 16V
2G23	319803041090	10pF 20% 16V
2G24	319803041090	10pF 20% 16V
2G32	319801731040	100nF 16V 0603
2G33	319803041090	10pF 20% 16V
2H03	319801731040	100nF 16V 0603
2H04	319801731040	100nF 16V 0603
2H06	319803041090	10pF 20% 16V
2H07	319803041090	10pF 20% 16V
2H08	319801731040	100nF 16V 0603
2H09	319801731040	100nF 16V 0603
2H10	319801731040	100nF 16V 0603
2H11	319801731040	100nF 16V 0603
2H12	319801731040	100nF 16V 0603
2H13	319801731040	100nF 16V 0603
2H14	319801732240	220nF 20% 10V 0603
2H15	319801732240	220nF 20% 10V 0603
2J01	319803041090	10pF 20% 16V
2J02	319801731040	100nF 16V 0603
2J04	319803042290	22uF 20% 16V

Item	Philips 12NC	Description
2J05	319803041010	1005F 20% 16V
2J06	319801731040	100nF 16V 0603
2J62	319801636890	CER1 0603 NP0 50V 68P
2J63	319801631810	180pF 10% 50V 0603
2J66	319801631810	180pF 10% 50V 0603
2J67	319801636890	CER1 0603 NP0 50V 68P
2J69	319801631810	180pF 10% 50V 0603
2J70	319801636890	CER1 0603 NP0 50V 68P
2J72	319801631810	180pF 10% 50V 0603
2J73	319801636890	CER1 0603 NP0 50V 68P
2K00	319801731040	100nF 16V 0603
2K01	319801731040	100nF 16V 0603
2K02	319801731040	100nF 16V 0603
2K03	319801731040	100nF 16V 0603
2K04	319801731040	100nF 16V 0603
2K05	319801731040	100nF 16V 0603
2K06	319803041090	10pF 20% 16V
2K07	319803041090	10pF 20% 16V
2K08	319801731040	100nF 16V 0603
2K09	319801731040	100nF 16V 0603
2K10	319801731040	100nF 16V 0603
2K11	319803041090	10pF 20% 16V
2K12	319801731040	100nF 16V 0603
2K13	319803041090	10pF 20% 16V
2K14	319801731020	1nF 50V 0603
2K15	319801631010	100pF 10% 50V 0603
2K16	319801734730	47nF 10% 16V 0603
2K17	319801734730	47nF 10% 16V 0603
2L24	319801732240	220nF 20% 10V 0603
2L25	319801732240	220nF 20% 10V 0603
2M01	202055200291	10uF 20% 6.3V 0603
2M02	202055200291	10uF 20% 6.3V 0603
2M03	319801731040	100nF 16V 0603
2M04	319801731040	100nF 16V 0603
2M05	319801731040	100nF 16V 0603
2M06	319801731040	100nF 16V 0603
2M07	202055200291	10uF 20% 6.3V 0603
2M08	202055200291	10uF 20% 6.3V 0603
2M09	319801731040	100nF 16V 0603
2M10	319801731040	100nF 16V 0603
2M11	319803041010	1005F 20% 16V
2M12	319801731040	100nF 16V 0603
2M15	202055200291	10uF 20% 6.3V 0603
2M16	319801731040	100nF 16V 0603
2M17	319801731040	100nF 16V 0603
2M19	319801731040	100nF 16V 0603
2M20	319801731040	100nF 16V 0603
2M21	319801731040	100nF 16V 0603
2N03	319803024790	47uF 20% 6.3V
2N04	319801731040	100nF 16V 0603
2N05	319801731040	100nF 16V 0603
2N06	319803024790	47uF 20% 6.3V
2N07	319801731030	10nF 20% 50V 0603
2N08	319801731030	10nF 20% 50V 0603
2N09	202055200291	10uF 20% 6.3V 0603
2N10	202055200291	10uF 20% 6.3V 0603
2N11	319803024790	47uF 20% 6.3V
2N12	319801731040	100nF 16V 0603
2N13	319801631890	18pF 1% 50V 0603
2N14	319801631890	18pF 1% 50V 0603
2N15	319801631020	1nF 25V 0603
2N16	319801731040	100nF 16V 0603
2N17	319802341040	100nF 10% 100V 0603
2N18	319801731020	1nF 50V 0603
2N20	319802341040	100nF 10% 100V 0603
2N25	319801631020	1nF 25V 0603
2N26	319801731020	1nF 50V 0603
2N27	319802341040	100nF 10% 100V 0603
2N28	319801731020	1nF 50V 0603
2N29	319801731020	1nF 50V 0603
2N30	319802341040	100nF 10% 100V 0603
2N31	319801731020	1nF 50V 0603
2N32	319801731020	1nF 50V 0603
2N33	319802341040	100nF 10% 100V 0603

Item	Philips 12NC	Description
2N34	319801731020	1nF 50V 0603
2N35	319802341040	100nF 10% 100V 0603
2N36	319801731040	100nF 16V 0603
2N37	319802341040	100nF 10% 100V 0603
2N38	319801731020	1nF 50V 0603
2N39	319801731020	1nF 50V 0603
2N40	319802341040	100nF 10% 100V 0603
2N41	319801731020	1nF 50V 0603
2N42	319801731020	1nF 50V 0603
2N43	319801731020	1nF 50V 0603
2N44	319801731040	100nF 16V 0603
2N45	319801731020	1nF 50V 0603
2N46	319801731020	1nF 50V 0603
2N47	319801731040	100nF 16V 0603
2N48	319801731020	1nF 50V 0603
2N49	319801631020	1nF 25V 0603
2N50	319802341040	100nF 10% 100V 0603
2N51	319801731020	1nF 50V 0603
2N52	319801731020	1nF 50V 0603
2N53	319801731040	100nF 16V 0603
2N54	319801631020	1nF 25V 0603
2N55	319801731020	1nF 50V 0603
2N56	319802341040	100nF 10% 100V 0603
2N58	319801731020	1nF 50V 0603
2N59	319801731020	1nF 50V 0603
2N60	319801731020	1nF 50V 0603
2N61	319801731020	1nF 50V 0603
2N62	319801731020	1nF 50V 0603
2N63	319801731020	1nF 50V 0603
2N64	319802341040	100nF 10% 100V 0603
2N66	319801731020	1nF 50V 0603
2N67	319801731040	100nF 16V 0603
2P07	319801731040	100nF 16V 0603
2P28	202055200211	22uF 10% 16V 1210
2P29	202055200211	22uF 10% 16V 1210
2P30	202055200211	22uF 10% 16V 1210
2P31	202055200169	1uF 25V Y5V 0603
2P32	319801733320	3.3nF 50V 0603
2P33	319801733320	3.3nF 50V 0603
2P34	202055200211	22uF 10% 16V 1210
2P35	319801731020	1nF 50V 0603
2P36	319801731040	100nF 16V 0603
2P37	319801733320	3.3nF 50V 0603
2P38	319801731020	1nF 50V 0603
2P39	319801731040	100nF 16V 0603
2P40	319801731040	100nF 16V 0603
2P41	319801731040	100nF 16V 0603
2P42	319801731040	100nF 16V 0603
2P43	319801733320	3.3nF 50V 0603
2P46	319803011010	100uF 20% 4V
2P48	319801631010	100pF 10% 50V 0603
2P49	319801631010	100pF 10% 50V 0603
2P52	319801731020	1nF 50V 0603
2P53	319801731020	1nF 50V 0603
2P54	319801731040	100nF 16V 0603
2P55	319803011010	100uF 20% 4V
2P56	319803011010	100uF 20% 4V
2P59	319803011010	100uF 20% 4V
2P61	202055200211	22uF 10% 16V 1210
2P68	319803011010	100uF 20% 4V
2P72	319803011010	100uF 20% 4V
2P73	319801732230	22nF 20% 25V 0603
2P78	202055200169	1uF 25V Y5V 0603
2R10	202055296448	1uF 10% 16V 0805
2R11	319803044790	47pF 20% 16V SMD
2R12	319801731040	100nF 16V 0603
3A01	212010894133	10 Ohm 5% 1206
3A02	212010894133	10 Ohm 5% 1206
3A03	319802131030	10k Ohm 5% 0.062W 0603
3A04	319802131230	12k Ohm 5% 0.062W 0603
3A05	232276260229	22 Ohm 5% 2512
3A06	319802131030	10k Ohm 5% 0.062W 0603
3A07	319802131030	10k Ohm 5% 0.062W 0603
3A08	319802131230	12k Ohm 5% 0.062W 0603

Item	Philips 12NC	Description
3A09	319802131090	TDA8932T/N1 IC
3A11	319802131030	10k Ohm 5% 0.062W 0603
3A12	319802131050	1M Ohm 5% 0603
3A13	319802133930	39k Ohm 5% 0.062W 0605
3A14	232276260229	22 Ohm 5% 2512
3A15	319802131050	1M Ohm 5% 0603
3A17	319802131090	TDA8932T/N1 IC
3A19	319802131030	10k Ohm 5% 0.062W 0603
3A26	319802134720	4.7k Ohm 5% 0603
3A27	319802132240	220k Ohm 5% 0603
3A28	319802132240	220k Ohm 5% 0603
3A29	319802134730	47k Ohm 5% 0603
3A30	319802134730	47k Ohm 5% 0603
3A31	319802131030	10k Ohm 5% 0.062W 0603
3B12	232270461502	1k5 1% 0603
3B17	319802136820	6.8k Ohm 5% 0603
3B18	319802136820	6.8k Ohm 5% 0603
3B19	319802136820	6.8k Ohm 5% 0603
3B65	319802134720	4.7k Ohm 5% 0603
3B66	232270461002	1k Ohm 1% 0603
3B68	319802131010	100 Ohm 5% 0.062W 0603
3C01	319802131050	1M Ohm 5% 0603
3C02	319802133390	33 Ohm 5% 0.062W 0603
3C03	319803111010	4*100 Ohm 5% 1206
3C04	319803111010	4*100 Ohm 5% 1206
3C05	319803111010	4*100 Ohm 5% 1206
3C06	319803111010	4*100 Ohm 5% 1206
3C08	319802131010	100 Ohm 5% 0.062W 0603
3C09	319802131010	100 Ohm 5% 0.062W 0603
3C10	319802132290	22 Ohm 5% 0603
3C19	232270464701	470 Ohm 1% 0603
3C20	319802131020	1k Ohm 5% 0.062W 0603
3C22	319802134720	4.7k Ohm 5% 0603
3C23	319802132210	220 Ohm 5% 0603
3C24	319802131010	100 Ohm 5% 0.062W 0603
3C25	319802131030	10k Ohm 5% 0.062W 0603
3C40	319802134720	4.7k Ohm 5% 0603
3C41	319802134720	4.7k Ohm 5% 0603
3C42	319802134720	4.7k Ohm 5% 0603
3D01	319803112290	4*22 Ohm 5% 1206
3D02	319803112290	4*22 Ohm 5% 1206
3D05	319803112290	4*22 Ohm 5% 1206
3D06	319803112290	4*22 Ohm 5% 1206
3D09	319802131590	15 Ohm 5% 0.062W 0603
3D10	232270465109	51 Ohm 1% 0603
3D11	319802131590	15 Ohm 5% 0.062W 0603
3D14	232270465109	51 Ohm 1% 0603
3D15	319802131020	1k Ohm 5% 0.062W 0603
3D16	319802131020	1k Ohm 5% 0.062W 0603
3D38	319802131590	15 Ohm 5% 0.062W 0603
3D40	319802131590	15 Ohm 5% 0.062W 0603
3D43	319803112290	4*22 Ohm 5% 1206
3D44	319803112290	4*22 Ohm 5% 1206
3D47	319803112290	4*22 Ohm 5% 1206
3D48	319803112290	4*22 Ohm 5% 1206
3E02	319802132290	22 Ohm 5% 0603
3E04	319802132290	22 Ohm 5% 0603
3E06	319802134720	4.7k Ohm 5% 0603
3E07	319802190030	Jumper 0603
3F10	319802134710	470 Ohm 5% 0603
3F11	319802136840	680k Ohm 5% 0.062W 0603
3F12	319802133310	330 Ohm 5% 0.062W 0603
3F13	319802132240	220k Ohm 5% 0603
3F14	319802133310	330 Ohm 5% 0.062W 0603
3F15	319802136840	680k Ohm 5% 0.062W 0603
3F16	319802133910	390 Ohm 5% 0.062W 0603
3F17	319802132240	220k Ohm 5% 0603
3F18	319802131030	10k Ohm 5% 0.062W 0603
3F19	319802134720	4.7k Ohm 5% 0603
3F20	319802134720	4.7k Ohm 5% 0603
3F21	319802133390	33 Ohm 5% 0.062W 0603
3F23	319802134720	4.7k Ohm 5% 0603
3F24	319802131040	100k Ohm 5% 0.062W 0603
3F25	319802131040	100k Ohm 5% 0.062W 0603

Item	Philips 12NC	Description
3F26	319802131020	1k Ohm 5% 0.062W 0603
3F28	319802131040	100k Ohm 5% 0.062W 0603
3F29	319802131040	100k Ohm 5% 0.062W 0603
3F30	319802133390	33 Ohm 5% 0.062W 0603
3F31	319803113390	4*33 Ohm 5% 1206
3F32	319803113390	4*33 Ohm 5% 1206
3F33	319802131030	10k Ohm 5% 0.062W 0603
3F34	319803113390	4*33 Ohm 5% 1206
3F40	319802131010	100 Ohm 5% 0.062W 0603
3F41	319802132720	2.7k Ohm 5% 0603
3F42	319802132720	2.7k Ohm 5% 0603
3F44	319802131010	100 Ohm 5% 0.062W 0603
3F46	319802131010	100 Ohm 5% 0.062W 0603
3F48	319802131010	100 Ohm 5% 0.062W 0603
3G11	319802131030	10k Ohm 5% 0.062W 0603
3G12	319802131030	10k Ohm 5% 0.062W 0603
3G16	319802131030	10k Ohm 5% 0.062W 0603
3G17	319802131030	10k Ohm 5% 0.062W 0603
3G19	319802131030	10k Ohm 5% 0.062W 0603
3G20	319802131030	10k Ohm 5% 0.062W 0603
3G28	319802131030	10k Ohm 5% 0.062W 0603
3G30	319802131030	10k Ohm 5% 0.062W 0603
3G31	319802131030	10k Ohm 5% 0.062W 0603
3G33	319802132290	22 Ohm 5% 0603
3G34	319802132290	22 Ohm 5% 0603
3G35	319802132290	22 Ohm 5% 0603
3G37	319802131030	10k Ohm 5% 0.062W 0603
3G38	319802131030	10k Ohm 5% 0.062W 0603
3G40	232270461202	1.2k Ohm 1%
3G41	319802131030	10k Ohm 5% 0.062W 0603
3G43	319802131010	100 Ohm 5% 0.062W 0603
3G44	319802131010	100 Ohm 5% 0.062W 0603
3G46	319802131010	100 Ohm 5% 0.062W 0603
3G47	319802131010	100 Ohm 5% 0.062W 0603
3G48	319802133390	33 Ohm 5% 0.062W 0603
3G54	319802131030	10k Ohm 5% 0.062W 0603
3G56	319803113390	4*33 Ohm 5% 1206
3G57	319803113390	4*33 Ohm 5% 1206
3G58	319803113390	4*33 Ohm 5% 1206
3G59	319803113390	4*33 Ohm 5% 1206
3G60	319802133390	33 Ohm 5% 0.062W 0603
3G61	319802133390	33 Ohm 5% 0.062W 0603
3G62	319802133390	33 Ohm 5% 0.062W 0603
3G63	319802131030	10k Ohm 5% 0.062W 0603
3H00	319802133320	3.3k Ohm 5% 0.062W 0603
3H05	319802131030	10k Ohm 5% 0.062W 0603
3H09	319802131010	100 Ohm 5% 0.062W 0603
3H10	319802131010	100 Ohm 5% 0.062W 0603
3H11	319802131030	10k Ohm 5% 0.062W 0603
3H12	319802133320	3.3k Ohm 5% 0.062W 0603
3H13	319802133320	3.3k Ohm 5% 0.062W 0603
3H14	212010894132	1 Ohm 1206
3J01	319802132230	22k Ohm 5% 0603
3J02	319802131230	12k Ohm 5% 0.062W 0603
3J03	319802131010	100 Ohm 5% 0.062W 0603
3J59	319802131810	180 Ohm 5% 0.062W 0603
3J60	319802134790	47 Ohm 5% 0603
3J61	319802131810	180 Ohm 5% 0.062W 0603
3J62	319802134790	47 Ohm 5% 0603
3J63	319802131810	180 Ohm 5% 0.062W 0603
3J64	319802134790	47 Ohm 5% 0603
3J65	319802131810	180 Ohm 5% 0.062W 0603
3J66	319802134790	47 Ohm 5% 0603
3K00	319802131010	100 Ohm 5% 0.062W 0603
3K01	319802131010	100 Ohm 5% 0.062W 0603
3K02	319803113390	4*33 Ohm 5% 1206
3K03	319803113390	4*33 Ohm 5% 1206
3K04	319802131030	10k Ohm 5% 0.062W 0603
3K05	319803113390	4*33 Ohm 5% 1206
3K06	319802131030	10k Ohm 5% 0.062W 0603
3K07	319802131030	10k Ohm 5% 0.062W 0603
3K08	319802131030	10k Ohm 5% 0.062W 0603
3K09	319802131030	10k Ohm 5% 0.062W 0603
3K10	319802131030	10k Ohm 5% 0.062W 0603

Item	Philips 12NC	Description
3K11	319802131030	10k Ohm 5% 0.062W 0603
3K12	319802131030	10k Ohm 5% 0.062W 0603
3K13	232270462002	2k Ohm 1% 0603
3K15	319802131030	10k Ohm 5% 0.062W 0603
3K16	319802131030	10k Ohm 5% 0.062W 0603
3K17	319802131030	10k Ohm 5% 0.062W 0603
3K18	319802131030	10k Ohm 5% 0.062W 0603
3K19	319802131030	10k Ohm 5% 0.062W 0603
3K20	319802131030	10k Ohm 5% 0.062W 0603
3K21	319802131030	10k Ohm 5% 0.062W 0603
3K22	319802131030	10k Ohm 5% 0.062W 0603
3K23	319803113390	4*33 Ohm 5% 1206
3K24	319803113390	4*33 Ohm 5% 1206
3K25	319802133390	33 Ohm 5% 0.062W 0603
3K26	319802133390	33 Ohm 5% 0.062W 0603
3K27	319802134790	47 Ohm 5% 0603
3K28	319802134790	47 Ohm 5% 0603
3K29	319802134790	47 Ohm 5% 0603
3K30	319802134790	47 Ohm 5% 0603
3K31	319802134790	47 Ohm 5% 0603
3K32	319802134790	47 Ohm 5% 0603
3K33	319802134790	47 Ohm 5% 0603
3K34	319803114790	4*47 Ohm 5% 1206
3K38	319802134790	47 Ohm 5% 0603
3K39	319802134790	47 Ohm 5% 0603
3K40	319802134790	47 Ohm 5% 0603
3K41	319802134790	47 Ohm 5% 0603
3K42	319802134790	47 Ohm 5% 0603
3K43	319802134790	47 Ohm 5% 0603
3K44	319802134790	47 Ohm 5% 0603
3K45	319802134790	47 Ohm 5% 0603
3K46	319802134790	47 Ohm 5% 0603
3K47	319802134790	47 Ohm 5% 0603
3K48	319802134790	47 Ohm 5% 0603
3K49	319802133390	33 Ohm 5% 0.062W 0603
3K50	319802133390	33 Ohm 5% 0.062W 0603
3K51	319802134720	4.7k Ohm 5% 0603
3K52	319802134720	4.7k Ohm 5% 0603
3L01	319802134720	4.7k Ohm 5% 0603
3L02	319802131010	100 Ohm 5% 0.062W 0603
3L03	319802131030	10k Ohm 5% 0.062W 0603
3L04	319802131520	1.5k Ohm 5% 0.062W 0603
3L05	319802131010	100 Ohm 5% 0.062W 0603
3L10	212010894132	1 Ohm 1206
3L11	319802131010	100 Ohm 5% 0.062W 0603
3L15	319802133310	330 Ohm 5% 0.062W 0603
3L16	319802131020	1k Ohm 5% 0.062W 0603
3L17	319802131010	100 Ohm 5% 0.062W 0603
3L22	319802190030	Jumper 0603
3L23	319802190030	Jumper 0603
3L28	319802134720	4.7k Ohm 5% 0603
3L53	319802131010	100 Ohm 5% 0.062W 0603
3L54	319802131010	100 Ohm 5% 0.062W 0603
3L55	319802131030	10k Ohm 5% 0.062W 0603
3L56	319802131010	100 Ohm 5% 0.062W 0603
3L57	319802131010	100 Ohm 5% 0.062W 0603
3L58	319802131010	100 Ohm 5% 0.062W 0603
3L59	319802131010	100 Ohm 5% 0.062W 0603
3L60	319802131010	100 Ohm 5% 0.062W 0603
3L61	319802131010	100 Ohm 5% 0.062W 0603
3L62	319802131010	100 Ohm 5% 0.062W 0603
3L63	319802131010	100 Ohm 5% 0.062W 0603
3L67	319802131010	100 Ohm 5% 0.062W 0603
3L71	319802132290	22 Ohm 5% 0603
3L72	319802134730	47k Ohm 5% 0603
3L73	319802134730	47k Ohm 5% 0603
3L75	319802132220	2.2k Ohm 5% 0603
3L76	319802132220	2.2k Ohm 5% 0603
3L79	319802131030	10k Ohm 5% 0.062W 0603
3L86	319802132230	22k Ohm 5% 0603
3L94	319802134720	4.7k Ohm 5% 0603
3L95	319802134720	4.7k Ohm 5% 0603
3L96	319802131040	100k Ohm 5% 0.062W 0603
3M07	319802131010	100 Ohm 5% 0.062W 0603

Item	Philips 12NC	Description
3M08	319802132220	2.2k Ohm 5% 0603
3M09	319802134720	4.7k Ohm 5% 0603
3M10	319802134710	470 Ohm 5% 0603
3M13	319802131010	100 Ohm 5% 0.062W 0603
3M14	319802131010	100 Ohm 5% 0.062W 0603
3M15	319802131010	100 Ohm 5% 0.062W 0603
3M20	319802131010	100 Ohm 5% 0.062W 0603
3M21	319802131010	100 Ohm 5% 0.062W 0603
3M31	319802132220	2.2k Ohm 5% 0603
3M32	319802138230	82k Ohm 5% 0.062W 0603
3M34	319802134720	4.7k Ohm 5% 0603
3M37	319802134730	47k Ohm 5% 0603
3M38	319802134730	47k Ohm 5% 0603
3M39	319802134730	47k Ohm 5% 0603
3M40	319802134730	47k Ohm 5% 0603
3N01	319802133390	33 Ohm 5% 0.062W 0603
3N02	319803113390	4*33 Ohm 5% 1206
3N03	319802133390	33 Ohm 5% 0.062W 0603
3N04	319803113390	4*33 Ohm 5% 1206
3N05	319802133390	33 Ohm 5% 0.062W 0603
3N06	319803113390	4*33 Ohm 5% 1206
3N07	319802133390	33 Ohm 5% 0.062W 0603
3N08	319803113390	4*33 Ohm 5% 1206
3N09	319802133390	33 Ohm 5% 0.062W 0603
3N10	319802133390	33 Ohm 5% 0.062W 0603
3N11	319803113390	4*33 Ohm 5% 1206
3N12	319803113390	4*33 Ohm 5% 1206
3N13	319802133390	33 Ohm 5% 0.062W 0603
3N14	319802133390	33 Ohm 5% 0.062W 0603
3N15	319802133390	33 Ohm 5% 0.062W 0603
3N16	319802133390	33 Ohm 5% 0.062W 0603
3N18	319803113390	4*33 Ohm 5% 1206
3N22	319802133390	33 Ohm 5% 0.062W 0603
3N23	212010894132	1 Ohm 1206
3N24	319802131050	1M Ohm 5% 0603
3N25	319802132210	220 Ohm 5% 0603
3N26	319802132210	220 Ohm 5% 0603
3N27	212010894132	1 Ohm 1206
3N33	319802134720	4.7k Ohm 5% 0603
3N34	319802134720	4.7k Ohm 5% 0603
3N35	319802134720	4.7k Ohm 5% 0603
3N36	319802134720	4.7k Ohm 5% 0603
3N37	319802134720	4.7k Ohm 5% 0603
3N38	319802134720	4.7k Ohm 5% 0603
3N39	319802131010	100 Ohm 5% 0.062W 0603
3N40	319802131010	100 Ohm 5% 0.062W 0603
3P13	319802131090	TDA8932T/N1 IC
3P20	212010894133	10 Ohm 5% 1206
3P23	319802131090	TDA8932T/N1 IC
3P25	319802131090	TDA8932T/N1 IC
3P26	319802132280	2R2 5% 0603
3P32	319802132280	2R2 5% 0603
3P34	319802133320	3.3k Ohm 5% 0.062W 0603
3P37	319802136820	6.8k Ohm 5% 0603
3P38	319802131020	1k Ohm 5% 0.062W 0603
3P40	319802133930	39k Ohm 5% 0.062W 0605
3P41	319802136820	6.8k Ohm 5% 0603
3P45	319802136820	6.8k Ohm 5% 0603
3P47	319802136890	68 Ohm 5% 0.062W 0603
3P48	319802136890	68 Ohm 5% 0.062W 0603
3P49	319802132210	220 Ohm 5% 0603
3P50	319802131020	1k Ohm 5% 0.062W 0603
3P51	232270461801	180 Ohm 1% 0603
3P53	232270466801	680 Ohm 1% 0603
3P54	319802131030	10k Ohm 5% 0.062W 0603
3P56	232270464701	470 Ohm 1% 0603
3P59	232270464701	470 Ohm 1% 0603
3P61	319802131090	TDA8932T/N1 IC
3P64	232270466801	680 Ohm 1% 0603
3P68	319802136820	6.8k Ohm 5% 0603
3P69	319802136820	6.8k Ohm 5% 0603
3P70	319802133320	3.3k Ohm 5% 0.062W 0603
3P71	319802136820	6.8k Ohm 5% 0603
3P72	319802136820	6.8k Ohm 5% 0603

Item	Philips 12NC	Description
3P74	319802136820	6.8k Ohm 5% 0603
3P77	232270461002	1k Ohm 1% 0603
3P78	319802131020	1k Ohm 5% 0.062W 0603
3R10	319802134730	47k Ohm 5% 0603
3R12	319802134790	47 Ohm 5% 0603
3R13	319802134730	47k Ohm 5% 0603
3R25	319802131010	100 Ohm 5% 0.062W 0603
3R26	319802131010	100 Ohm 5% 0.062W 0603
4B04	319802190030	Jumper 0603
4B05	319802190030	Jumper 0603
4B06	319802190030	Jumper 0603
4B07	319802190030	Jumper 0603
4C07	319802190030	Jumper 0603
4F12	319802190030	Jumper 0603
4G01	319802190030	Jumper 0603
4G02	319802190030	Jumper 0603
4G03	319802190030	Jumper 0603
4G04	319802190030	Jumper 0603
4G09	319802190030	Jumper 0603
4G31	319802190030	Jumper 0603
4H00	319802190030	Jumper 0603
4H02	319802190030	Jumper 0603
4H04	319802190030	Jumper 0603
4H05	319802190030	Jumper 0603
4H12	319802190030	Jumper 0603
4J14	319802190030	Jumper 0603
4J15	319802190030	Jumper 0603
4L20	319802190030	Jumper 0603
4L24	319802190030	Jumper 0603
4L25	319802190030	Jumper 0603
4L26	319802190030	Jumper 0603
4M01	319802190030	Jumper 0603
4M04	319802190030	Jumper 0603
4M05	319802190030	Jumper 0603
4M07	319802190030	Jumper 0603
4M08	319802190030	Jumper 0603
4M09	319802190030	Jumper 0603
4M11	319802190030	Jumper 0603
4N02	319802190030	Jumper 0603
4N03	319802190030	Jumper 0603
4N04	319802190030	Jumper 0603
4N05	319802190030	Jumper 0603
4N06	319802190030	Jumper 0603
4N07	319802190030	Jumper 0603
4N08	319802190030	Jumper 0603
4P01	319802190030	Jumper 0603
4P02	319802190030	Jumper 0603
4R02	319802190030	Jumper 0603
4R03	319802190030	Jumper 0603
4R04	319802190030	Jumper 0603
4R05	319802190030	Jumper 0603
4R06	319802190030	Jumper 0603
4R07	319802190030	Jumper 0603
4R08	319802190030	Jumper 0603
5A03	242253601564	22uF 20%
5A04	242253601564	22uF 20%
5A05	242254942958	Bead 0805 30R at 100MHz
5A06	242254942958	Bead 0805 30R at 100MHz
5A07	242254901582	Bead 0603 33R at 100MHz
5A08	242253594134	105H 20% 0805
5A09	242253594134	105H 20% 0805
5B01	242253594134	105H 20% 0805
5B05	242253601564	22uF 20%
5B08	242253600779	105uH 20%
5C06	242254901582	Bead 0603 33R at 100MHz
5C07	242254901582	Bead 0603 33R at 100MHz
5C08	242254901582	Bead 0603 33R at 100MHz
5D03	242254901582	Bead 0603 33R at 100MHz
5E03	242254901582	Bead 0603 33R at 100MHz
5E04	242254901582	Bead 0603 33R at 100MHz
5E05	242254901582	Bead 0603 33R at 100MHz
5E06	242254901582	Bead 0603 33R at 100MHz
5E07	242254901582	Bead 0603 33R at 100MHz
5E08	242254901582	Bead 0603 33R at 100MHz

Item	Philips 12NC	Description
5E09	242254901582	Bead 0603 33R at 100MHz
5E10	242254901582	Bead 0603 33R at 100MHz
5E11	242254901582	Bead 0603 33R at 100MHz
5E12	242254901582	Bead 0603 33R at 100MHz
5E13	242254901582	Bead 0603 33R at 100MHz
5E14	242254901582	Bead 0603 33R at 100MHz
5E16	242254901582	Bead 0603 33R at 100MHz
5E17	242254901582	Bead 0603 33R at 100MHz
5F10	242254942979	Ind. 100MHz 60Ohm 0603
5F11	242254942979	Ind. 100MHz 60Ohm 0603
5G04	242254942979	Ind. 100MHz 60Ohm 0603
5G05	242254901582	Bead 0603 33R at 100MHz
5G06	242254901582	Bead 0603 33R at 100MHz
5G07	242254901582	Bead 0603 33R at 100MHz
5H01	242254942979	Ind. 100MHz 60Ohm 0603
5H02	242254942979	Ind. 100MHz 60Ohm 0603
5H03	242254942979	Ind. 100MHz 60Ohm 0603
5J01	242254942979	Ind. 100MHz 60Ohm 0603
5J52	319801853380	3.35H 10% 0603
5J53	319801853380	3.35H 10% 0603
5J54	319801853380	3.35H 10% 0603
5J55	319801853380	3.35H 10% 0603
5K01	242254942979	Ind. 100MHz 60Ohm 0603
5K02	242254942979	Ind. 100MHz 60Ohm 0603
5K03	242254942979	Ind. 100MHz 60Ohm 0603
5K04	242254942979	Ind. 100MHz 60Ohm 0603
5K05	242254942979	Ind. 100MHz 60Ohm 0603
5M01	242254901582	Bead 0603 33R at 100MHz
5M02	242254901582	Bead 0603 33R at 100MHz
5M03	242254901582	Bead 0603 33R at 100MHz
5N01	242254942896	Ind. 120 Ohm 100MHz
5N02	242254942896	Ind. 120 Ohm 100MHz
5N03	242254942896	Ind. 120 Ohm 100MHz
5N04	242254942896	Ind. 120 Ohm 100MHz
5N05	242254942896	Ind. 120 Ohm 100MHz
5N06	242254942896	Ind. 120 Ohm 100MHz
5N07	242254942896	Ind. 120 Ohm 100MHz
5N08	242254942896	Ind. 120 Ohm 100MHz
5N09	242254942896	Ind. 120 Ohm 100MHz
5P01	242253600671	10uH 20%
5P02	242253594134	105H 20% 0805
5P09	242253600671	10uH 20%
5R02	242254901582	Bead 0603 33R at 100MHz
5R03	242254901582	Bead 0603 33R at 100MHz
6B30	319801010720	SS24
6J03	319801010630	BAS316
6J14	934058419115	PESD3V3L1BA
6J15	934058419115	PESD3V3L1BA
6M08	319801010660	BAT54
6P05	319802056880	BZX384-C6V8
6P12	319802056880	BZX384-C6V8
6P13	319801010630	BAS316
6P14	319801010630	BAS316
6P15	319802051890	BZX384-C18
6R02	319802055680	BZX384-C5V6
7A01	935279642118	TDA8932T/N1
7A05	319801042320	BC857BW
7A06	319801042310	BC847BW
7A07	319801042310	BC847BW
7B01	932220234668	L5973D
7B02	932211988668	LD1117DT33C
7B12	932221214668	SI4423DY
7C01	932224957671	SVP WX68-7568-LF
7C02	319801042310	BC847BW
7C04	319801042310	BC847BW
7D01	932225195671	K4D261638K-LC40
7D02	932225195671	K4D261638K-LC40
7F01	935273245518	TDA10046AHT/C1
7F02	935263016165	74AHC1GU04GW
7F03	935263016165	74AHC1GU04GW
7F04	319801070580	LM393D
7G00	935277355557	PNX8314HS/C102
7H00		For SW see item 0851
7H02	932224127668	K4S281632I-UC60

Item	Philips 12NC	Description
7H03		For SW see item 0852
7J04	932221400668	SI2301BDS-E3
7J05	319801044110	PDTC114ET
7K00	932222791671	STV0700L
7K01	935219010118	74LVC573ADB
7K02	935219010118	74LVC573ADB
7K03	319801070650	74LVC245APW
7K04	272217100207	Xtal 27MHz 50P
7K05	932217513668	ST890CD
7L10	319801042310	BC847BW
7L23		For SW see item 0816
7M01	932216761668	LF18CD
7M04	319801042310	BC847BW
7M07	932225506671	SII9185ACTU
7M09	319801042310	BC847BW
7N01	932225010671	SII9125CTU
7N07	935266839118	UDA1334ATS/N2
7P05	319801044340	BC817-25W
7P06	932216070668	SI4936ADY-E3
7P07	932216070668	SI4936ADY-E3
7P08	932221350685	TS431AIL
7P09	934057587118	PHD38N02LT
7P11	932220746668	NCP5422AD
7R05	932220471668	SI4835BDY
7R07	319801044110	PDTC114ET

Table 10-11 SSB: 32 and 42PFL7962D/05 (3139 268 52881)

Item	Philips 12NC	Description
0233	313918758541	Top shield assy
0237	313918758531	Bottom shield assy
0476	310430312201	EMC foam 2.3x2.3x32.5
0484	310430310871	EMC foam tuner
1101	311229714001	Tuner TD1316AF/IHP-2
1102	932204272682	SAW 38MHz9 K3953M
1103	242254944341	SAW 38MHz9 K9656M
1104	242254301386	Xtal 4MHz00 20pF SMD-49
1201	242202518124	Conn. 5p m 2.00 Wh
1203	242202518125	Conn. 6p m 2.00 Wh
1204	272217108785	Xtal 27MHz 30pF DSO751
1301	242254301526	Crystal 12pF 10MHz
1304	242202518131	Conn. 11p m 2.00 Wh
1305	242202518129	Conn. 10p m 2.00 Wh
1314	242202605905	Sock. Phone 1p f 3.5
1411	242254301461	Xtal 18.432MHz 12pF
1504	242202520251	Sock. SCART 21p f Bk
1506	242202520251	Sock. SCART 21p f Bk
1601	242203300675	Sock. 2p f CINCH/MDIN
1615	242202605985	Sock. CINCH 4p f 2L2
2112	202055200211	22uF 10% 16V 1210
2113	319801731030	10nF 20% 50V 0603
2117	319801731030	10nF 20% 50V 0603
2118	319801731030	10nF 20% 50V 0603
2120	202055200211	22uF 10% 16V 1210
2121	319801631590	15pF 10% 50V 0603
2122	319801631590	15pF 10% 50V 0603
2123	319801731520	1.5nF 20% 50V 0603
2125	319801744740	470pF 5% 10V 0603
2126	319801742240	220nF 16V Y5V 0603
2127	319801632290	22pF 10% 50V 0603
2128	319801731030	10nF 20% 50V 0603
2129	202055200211	22uF 10% 16V 1210
2130	319801731030	10nF 20% 50V 0603
2131	202055200211	22uF 10% 16V 1210
2132	202055200211	22uF 10% 16V 1210
2133	319801731030	10nF 20% 50V 0603
2136	319801744740	470pF 5% 10V 0603
2137	319801731030	10nF 20% 50V 0603
2138	319801731030	10nF 20% 50V 0603
2139	319801633910	390pF 50V NP0 0603
2143	319801731020	1nF 50V 0603
2145	319801731020	1nF 50V 0603
2146	319801741050	1uF 5% 10V 0603
2147	223878619856	330nF 20% 160V 0603
2148	319801731040	100nF 16V 0603
2149	319802752280	2.2uF 10V X5R 0603
2203	319801631020	1nF 25V 0603
2204	319801631020	1nF 25V 0603
2211	319801731030	10nF 20% 50V 0603
2214	202055296858	10uF 10% 6V3 X5R 0805
2310	319801731040	100nF 16V 0603
2311	202055200291	10uF 20% 6.3V 0603
2312	319801731040	100nF 16V 0603
2313	319801731040	100nF 16V 0603
2314	319801631590	15pF 10% 50V 0603
2315	319801731040	100nF 16V 0603
2316	319801631590	15pF 10% 50V 0603
2317	319801731040	100nF 16V 0603
2318	319801731040	100nF 16V 0603
2320	319801731040	100nF 16V 0603
2323	319801731040	100nF 16V 0603
2324	202055296807	1uF 5% 10V 0603
2327	319801731030	10nF 20% 50V 0603
2329	319801731020	1nF 50V 0603
2330	319801731020	1nF 50V 0603
2331	319801731020	1nF 50V 0603
2332	319801731020	1nF 50V 0603
2333	319801731020	1nF 50V 0603
2335	319801731020	1nF 50V 0603
2336	319801731020	1nF 50V 0603
2337	319801731020	1nF 50V 0603
2338	319801732240	220nF 20% 10V 0603
2341	319802341040	100nF 10% 100V 0603
2408	319801734710	470pF 50V X7R 0603
2409	319801731520	1.5nF 20% 50V 0603
2410	202002100215	220uF 20% 25V
2411	202055200291	10uF 20% 6.3V 0603
2412	319801632210	220pF 10% 50V 0603
2413	319801632210	220pF 10% 50V 0603
2414	202055200291	10uF 20% 6.3V 0603
2415	319801633380	3.3pF 50V 0603
2416	319801633380	3.3pF 50V 0603
2417	319801733310	330pF 50V X7R 0603
2418	319801733310	330pF 50V X7R 0603
2419	319801731040	100nF 16V 0603
2420	319803041090	10pF 20% 16V
2421	319801633310	330pF 1% 50V 0603
2422	319801633310	330pF 1% 50V 0603
2423	319803041090	10pF 20% 16V
2424	202055200291	10uF 20% 6.3V 0603
2425	202055200291	10uF 20% 6.3V 0603
2426	202055200291	10uF 20% 6.3V 0603
2427	202055200291	10uF 20% 6.3V 0603
2428	319801631010	100pF 10% 50V 0603
2429	319801631010	100pF 10% 50V 0603
2430	319801631010	100pF 10% 50V 0603
2431	319801631010	100pF 10% 50V 0603
2432	319801635690	56pF 10% 50V 0603
2433	319801633310	330pF 1% 50V 0603
2434	319801633310	330pF 1% 50V 0603
2435	319801633310	330pF 1% 50V 0603
2436	202055200291	10uF 20% 6.3V 0603
2437	202055200291	10uF 20% 6.3V 0603
2438	319801731040	100nF 16V 0603
2439	202055200247	470nF 10% 25V 0603
2440	202055200247	470nF 10% 25V 0603
2441	319801731520	1.5nF 20% 50V 0603
2442	319801734710	470pF 50V X7R 0603
2443	319801731520	1.5nF 20% 50V 0603
2444	319801734710	470pF 50V X7R 0603
2445	319801731040	100nF 16V 0603
2502	319801733310	330pF 50V X7R 0603
2506	319801733310	330pF 50V X7R 0603
2508	319801733310	330pF 50V X7R 0603
2509	319801732240	220nF 20% 10V 0603
2512	319801731020	1nF 50V 0603
2514	319801733310	330pF 50V X7R 0603
2515	319801732240	220nF 20% 10V 0603
2517	319801731020	1nF 50V 0603
2518	319801732240	220nF 20% 10V 0603
2520	319801731020	1nF 50V 0603
2521	319801732240	220nF 20% 10V 0603
2523	319801731020	1nF 50V 0603
2525	319801732240	220nF 20% 10V 0603
2533	319801732240	220nF 20% 10V 0603
2534	319801732240	220nF 20% 10V 0603
2536	319801732240	220nF 20% 10V 0603
2607	319801732240	220nF 20% 10V 0603
2608	319801733320	3.3nF 50V 0603
2610	319801732240	220nF 20% 10V 0603
2612	319801733320	3.3nF 50V 0603
2613	319801731040	100nF 16V 0603
2614	319801731040	100nF 16V 0603
2615	319801731040	100nF 16V 0603
2701	202055296448	1uF 10% 16V 0805
2702	319801741030	10nF 50V Y5V 0603
2703	319801741030	10nF 50V Y5V 0603
2704	319801741030	10nF 50V Y5V 0603
2705	319801741030	10nF 50V Y5V 0603
2706	202055200141	4.75F 10% 6.3V 0805
2707	319801741030	10nF 50V Y5V 0603
2708	319801741030	10nF 50V Y5V 0603
2709	319801741030	10nF 50V Y5V 0603

Item	Philips 12NC	Description
2710	319801741030	10nF 50V Y5V 0603
2711	319801741030	10nF 50V Y5V 0603
2712	319801741030	10nF 50V Y5V 0603
2713	319801741030	10nF 50V Y5V 0603
2714	319801741030	10nF 50V Y5V 0603
2715	319801741030	10nF 50V Y5V 0603
2717	202055200141	4.75F 10% 6.3V 0805
2718	319801741030	10nF 50V Y5V 0603
2719	319801741030	10nF 50V Y5V 0603
2720	319801741030	10nF 50V Y5V 0603
2721	319801741030	10nF 50V Y5V 0603
2724	319803014790	475uF 20% 4V
2725	319801741030	10nF 50V Y5V 0603
2726	319801741030	10nF 50V Y5V 0603
2729	202055296448	1uF 10% 16V 0805
2730	319801741030	10nF 50V Y5V 0603
2901	319801633390	33pF 50V NP0 0603
2902	319801744740	470pF 5% 10V 0603
2904	319801744740	470pF 5% 10V 0603
2905	319801633390	33pF 50V NP0 0603
2907	319801744740	470pF 5% 10V 0603
2908	319801732240	220nF 20% 10V 0603
2913	319801732240	220nF 20% 10V 0603
2915	319803024790	47uF 20% 6.3V
2916	319803024790	47uF 20% 6.3V
3110	319802138220	8.2k Ohm 5% 0.062W 0603
3111	319802135620	5.6k Ohm 5% 0.062W 0603
3113	319802136820	6.8k Ohm 5% 0603
3115	319802133930	39k Ohm 5% 0.062W 0605
3117	319802132220	2.2k Ohm 5% 0603
3118	319802132220	2.2k Ohm 5% 0603
3119	319802132230	22k Ohm 5% 0603
3123	319802133310	330 Ohm 5% 0.062W 0603
3124	319802131010	100 Ohm 5% 0.062W 0603
3125	319802131510	150 Ohm 5% 0603
3126	319802131810	180 Ohm 5% 0.062W 0603
3127	319802135620	5.6k Ohm 5% 0.062W 0603
3133	212010894132	1 Ohm 1206
3134	212010894132	1 Ohm 1206
3135	319802131590	15 Ohm 5% 0.062W 0603
3136	232276260479	47Ohm 5% 2512
3137	232276260479	47Ohm 5% 2512
3140	319802131510	150 Ohm 5% 0603
3151	319802131010	100 Ohm 5% 0.062W 0603
3152	319802131010	100 Ohm 5% 0.062W 0603
3188	319802131830	18k Ohm 5% 0603
3193	319802132230	22k Ohm 5% 0603
3194	319802132230	22k Ohm 5% 0603
3195	319802131830	18k Ohm 5% 0603
3201	319802131010	100 Ohm 5% 0.062W 0603
3202	319802131010	100 Ohm 5% 0.062W 0603
3203	319802131520	1.5k Ohm 5% 0.062W 0603
3204	319802131520	1.5k Ohm 5% 0.062W 0603
3205	319802131010	100 Ohm 5% 0.062W 0603
3206	319802131010	100 Ohm 5% 0.062W 0603
3231	319802131020	1k Ohm 5% 0.062W 0603
3234	319802131010	100 Ohm 5% 0.062W 0603
3235	319802131010	100 Ohm 5% 0.062W 0603
3236	319802134790	47 Ohm 5% 0603
3240	319802131010	100 Ohm 5% 0.062W 0603
3246	319802131010	100 Ohm 5% 0.062W 0603
3300	319802131220	1.2k Ohm 5% 0.062W 0603
3303	319802131010	100 Ohm 5% 0.062W 0603
3306	319802131020	1k Ohm 5% 0.062W 0603
3310	319802131020	1k Ohm 5% 0.062W 0603
3313	319802133310	330 Ohm 5% 0.062W 0603
3314	319802131030	10k Ohm 5% 0.062W 0603
3315	319802131010	100 Ohm 5% 0.062W 0603
3316	319802131030	10k Ohm 5% 0.062W 0603
3317	319802133310	330 Ohm 5% 0.062W 0603
3318	319802131010	100 Ohm 5% 0.062W 0603
3319	319802131030	10k Ohm 5% 0.062W 0603
3320	319802131010	100 Ohm 5% 0.062W 0603
3322	319802131010	100 Ohm 5% 0.062W 0603
3323	319802131010	100 Ohm 5% 0.062W 0603
3324	319802131030	10k Ohm 5% 0.062W 0603
3325	319802131030	10k Ohm 5% 0.062W 0603
3329	319802131010	100 Ohm 5% 0.062W 0603
3336	319802131010	100 Ohm 5% 0.062W 0603
3338	319802131010	100 Ohm 5% 0.062W 0603
3339	319802131010	100 Ohm 5% 0.062W 0603
3340	319802131010	100 Ohm 5% 0.062W 0603
3341	319802131010	100 Ohm 5% 0.062W 0603
3343	319802131010	100 Ohm 5% 0.062W 0603
3345	319802131010	100 Ohm 5% 0.062W 0603
3346	319802131010	100 Ohm 5% 0.062W 0603
3347	319802131030	10k Ohm 5% 0.062W 0603
3348	319802134790	47 Ohm 5% 0603
3349	319802131030	10k Ohm 5% 0.062W 0603
3350	319802131030	10k Ohm 5% 0.062W 0603
3351	319802133320	3.3k Ohm 5% 0.062W 0603
3352	319802133320	3.3k Ohm 5% 0.062W 0603
3353	319802131030	10k Ohm 5% 0.062W 0603
3354	319802131010	100 Ohm 5% 0.062W 0603
3355	319802131010	100 Ohm 5% 0.062W 0603
3357	319802131010	100 Ohm 5% 0.062W 0603
3359	319802134720	4.7k Ohm 5% 0603
3360	319802134720	4.7k Ohm 5% 0603
3361	319802133320	3.3k Ohm 5% 0.062W 0603
3362	319802133320	3.3k Ohm 5% 0.062W 0603
3380	319802131010	100 Ohm 5% 0.062W 0603
3382	319802131010	100 Ohm 5% 0.062W 0603
3384	319802132290	22 Ohm 5% 0603
3386	319802131010	100 Ohm 5% 0.062W 0603
3387	319802131010	100 Ohm 5% 0.062W 0603
3388	319802131010	100 Ohm 5% 0.062W 0603
3389	319802134790	47 Ohm 5% 0603
3390	319802134790	47 Ohm 5% 0603
3391	319802134790	47 Ohm 5% 0603
3393	319802131530	15k Ohm 5% 0603
3395	319802131520	1.5k Ohm 5% 0.062W 0603
3396	319802131020	1k Ohm 5% 0.062W 0603
3397	319802134730	47k Ohm 5% 0603
3398	319802131040	100k Ohm 5% 0.062W 0603
3399	319802131030	10k Ohm 5% 0.062W 0603
3402	212010894132	1 Ohm 1206
3410	319802131010	100 Ohm 5% 0.062W 0603
3411	319802131010	100 Ohm 5% 0.062W 0603
3417	319802131010	100 Ohm 5% 0.062W 0603
3418	319802131010	100 Ohm 5% 0.062W 0603
3419	319802131010	100 Ohm 5% 0.062W 0603
3420	319802131010	100 Ohm 5% 0.062W 0603
3500	319802131510	150 Ohm 5% 0603
3502	319802131510	150 Ohm 5% 0603
3503	319802131510	150 Ohm 5% 0603
3506	319802131510	150 Ohm 5% 0603
3507	319802131510	150 Ohm 5% 0603
3508	319802133330	33k Ohm 5% 0.062W 0603
3510	319802131510	150 Ohm 5% 0603
3511	319802133330	33k Ohm 5% 0.062W 0603
3512	319802131510	150 Ohm 5% 0603
3513	319802133330	33k Ohm 5% 0.062W 0603
3514	319802131510	150 Ohm 5% 0603
3515	319802133330	33k Ohm 5% 0.062W 0603
3516	319802131010	100 Ohm 5% 0.062W 0603
3517	319802137590	75 Ohm 5% 0603
3518	319802132730	27k Ohm 5% 0603
3519	319802131590	15 Ohm 5% 0.062W 0603
3520	319802136820	6.8k Ohm 5% 0603
3521	319802131020	1k Ohm 5% 0.062W 0603
3522	319802136890	68 Ohm 5% 0.062W 0603
3523	319802131010	100 Ohm 5% 0.062W 0603
3524	319802131590	15 Ohm 5% 0.062W 0603
3525	319802131020	1k Ohm 5% 0.062W 0603
3526	319802137590	75 Ohm 5% 0603
3528	319802131010	100 Ohm 5% 0.062W 0603
3529	319802131010	100 Ohm 5% 0.062W 0603
3530	319802137590	75 Ohm 5% 0603
3531	319802137590	75 Ohm 5% 0603
3532	319802131020	1k Ohm 5% 0.062W 0603
3533	319802137590	75 Ohm 5% 0603
3535	319802136890	68 Ohm 5% 0.062W 0603
3536	319802131020	1k Ohm 5% 0.062W 0603
3537	319802131020	1k Ohm 5% 0.062W 0603
3538	319802134720	4.7k Ohm 5% 0603
3540	319802134720	4.7k Ohm 5% 0603
3545	319802131010	100 Ohm 5% 0.062W 0603
3546	319802137590	75 Ohm 5% 0603
3550	319802132730	27k Ohm 5% 0603
3551	319802136820	6.8k Ohm 5% 0603
3552	319802131010	100 Ohm 5% 0.062W 0603
3553	319802137590	75 Ohm 5% 0603
3554	319802136890	68 Ohm 5% 0.062W 0603
3555	319802136890	68 Ohm 5% 0.062W 0603
3600	319802131010	100 Ohm 5% 0.062W 0603
3601	319802137590	75 Ohm 5% 0603
3602	319802131010	100 Ohm 5% 0.062W 0603
3603	319802137590	75 Ohm 5% 0603
3604	319802137590	75 Ohm 5% 0603
3605	319802137590	75 Ohm 5% 0603
3607	319802131510	150 Ohm 5% 0603
3608	319802133330	33k Ohm 5% 0.062W 0603
3609	319802137590	75 Ohm 5% 0603
3611	319802131510	150 Ohm 5% 0603
3612	319802133330	33k Ohm 5% 0.062W 0603
3617	319802133390	33 Ohm 5% 0.062W 0603
3618	319802133390	33 Ohm 5% 0.062W 0603
3619	319802133390	33 Ohm 5% 0.062W 0603
3620	319802134720	4.7k Ohm 5% 0603
3700	319802131030	10k Ohm 5% 0.062W 0603
3701	319802131030	10k Ohm 5% 0.062W 0603
3702	319802131030	10k Ohm 5% 0.062W 0603
3703	319802131030	10k Ohm 5% 0.062W 0603
3713	319802131810	180 Ohm 5% 0.062W 0603
3714	319802131810	180 Ohm 5% 0.062W 0603
3720	319802132290	22 Ohm 5% 0603
3721	319802131810	180 Ohm 5% 0.062W 0603
3722	319802132290	22 Ohm 5% 0603
3723	319802132290	22 Ohm 5% 0603
3724	319802131810	180 Ohm 5% 0.062W 0603
3725	319802132290	22 Ohm 5% 0603
3726	319802132290	22 Ohm 5% 0603
3727	319802131810	180 Ohm 5% 0.062W 0603
3728	319802132290	22 Ohm 5% 0603
3729	319802132290	22 Ohm 5% 0603
3730	319802131810	180 Ohm 5% 0.062W 0603
3731	319802132290	22 Ohm 5% 0603
3732	319802132290	22 Ohm 5% 0603
3733	319802131810	180 Ohm 5% 0.062W 0603
3734	319802132290	22 Ohm 5% 0603
3735	319802132290	22 Ohm 5% 0603
3736	319802131810	180 Ohm 5% 0.062W 0603
3737	319802132290	22 Ohm 5% 0603
3738	319802132290	22 Ohm 5% 0603
3739	319802131810	180 Ohm 5% 0.062W 0603
3740	319802132290	22 Ohm 5% 0603
3741	319802132290	22 Ohm 5% 0603
3742	319802131810	180 Ohm 5% 0.062W 0603
3743	319802132290	22 Ohm 5% 0603
3744	319802132290	22 Ohm 5% 0603
3745	319802131810	180 Ohm 5% 0.062W 0603
3746	319802132290	22 Ohm 5% 0603
3747	319802132290	22 Ohm 5% 0603
3748	319802131810	180 Ohm 5% 0.062W 0603
3749	319802132290	22 Ohm 5% 0603
3750	319802132290	22 Ohm 5% 0603
3751	319802132290	22 Ohm 5% 0603
3752	319802132290	22 Ohm 5% 0603
3753	319802132290	22 Ohm 5% 0603
3901	319802134730	47k Ohm 5% 0603
3902	232270260124	120k Ohm 5% 0603
3904	319802133390	33 Ohm 5% 0.062W 0603

Item	Philips 12NC	Description
3905	319802134730	47k Ohm 5% 0603
3906	319802131040	100k Ohm 5% 0.062W 0603
3907	319802131040	100k Ohm 5% 0.062W 0603
3908	232270260124	120k Ohm 5% 0603
3910	319802133390	33 Ohm 5% 0.062W 0603
3911	319802131030	10k Ohm 5% 0.062W 0603
3912	319802131030	10k Ohm 5% 0.062W 0603
3913	319802131020	1k Ohm 5% 0.062W 0603
3914	319802131020	1k Ohm 5% 0.062W 0603
3915	319802131020	1k Ohm 5% 0.062W 0603
3916	319802131020	1k Ohm 5% 0.062W 0603
3917	319802131020	1k Ohm 5% 0.062W 0603
3918	319802131020	1k Ohm 5% 0.062W 0603
3942	319802131030	10k Ohm 5% 0.062W 0603
3943	319802132230	22k Ohm 5% 0603
4112	319802190030	Jumper 0603
4115	319802190030	Jumper 0603
4116	319802190030	Jumper 0603
4117	319802190030	Jumper 0603
4118	319802190030	Jumper 0603
4119	319802190030	Jumper 0603
4123	319802190030	Jumper 0603
4124	319802190030	Jumper 0603
4125	319802190030	Jumper 0603
4201	319802190030	Jumper 0603
4204	319802190030	Jumper 0603
4205	319802190030	Jumper 0603
4309	319802190030	Jumper 0603
4310	319802190030	Jumper 0603
4316	319802190030	Jumper 0603
4326	319802190030	Jumper 0603
4401	319802190030	Jumper 0603
4402	319802190030	Jumper 0603
4409	319802190030	Jumper 0603
4410	319802190030	Jumper 0603
4412	319802190030	Jumper 0603
4602	319802190030	Jumper 0603
4700	319802190030	Jumper 0603
4703	319802190030	Jumper 0603
4704	319802190030	Jumper 0603
4705	319802190030	Jumper 0603
4706	319802190030	Jumper 0603
4707	319802190030	Jumper 0603
4708	319802190030	Jumper 0603
4709	319802190030	Jumper 0603
4710	319802190030	Jumper 0603
4711	319802190030	Jumper 0603
4712	319802190030	Jumper 0603
4713	319802190030	Jumper 0603
4714	319802190030	Jumper 0603
4715	319802190030	Jumper 0603
4716	319802190030	Jumper 0603
4717	319802190030	Jumper 0603
4718	319802190030	Jumper 0603
4719	319802190030	Jumper 0603
4720	319802190030	Jumper 0603
4721	319802190030	Jumper 0603
4722	319802190030	Jumper 0603
4723	319802190030	Jumper 0603
4724	319802190030	Jumper 0603
4725	319802190030	Jumper 0603
4726	319802190030	Jumper 0603
5111	242253601057	0.39uH 5% 0603
5112	242254901582	Bead 0603 33R at 100MHz
5114	242253601521	Ind. 10uH 10% 1207
5115	242253601521	Ind. 10uH 10% 1207
5118	242254901582	Bead 0603 33R at 100MHz
5120	319801890030	120 Ohm 100MHz 0603
5121	319801890030	120 Ohm 100MHz 0603
5201	242254901582	Bead 0603 33R at 100MHz
5202	242254943769	ind. 100MHz 30Ohm
5301	242254942979	Ind. 100MHz 60Ohm 0603
5302	242254942979	Ind. 100MHz 60Ohm 0603
5304	242254901582	Bead 0603 33R at 100MHz

Item	Philips 12NC	Description
5306	242254943276	Ind. 100MHz 30 Ohm 0603
5401	319801890030	120 Ohm 100MHz 0603
5402	319801890030	120 Ohm 100MHz 0603
5403	319801862290	22uH 5% 1008
5601	242254901582	Bead 0603 33R at 100MHz
5700	242254901582	Bead 0603 33R at 100MHz
5701	242254901582	Bead 0603 33R at 100MHz
5702	242254901582	Bead 0603 33R at 100MHz
5703	242254901582	Bead 0603 33R at 100MHz
5704	242254901582	Bead 0603 33R at 100MHz
5705	242254901582	Bead 0603 33R at 100MHz
6103	932210737685	1SS356
6110	319801010630	BAS316
6301	319801010630	BAS316
6306	934058419115	PESD3V3L1BA
6307	934058419115	PESD3V3L1BA
6318	319802058280	BZX384-C8V2
6512	932220595685	1N4148WS-V
6513	932220595685	1N4148WS-V
6919	319801010630	BAS316
7109	319801042030	BC847B
7111	933715320118	74HCT4053D (PHSE
7113	935272371118	TDA9886T/V4
7114	319801042030	BC847B
7133	932210447668	L78M05CDT
7134	319801042030	BC847B
7201	932221001668	EPCS4SI8N
7302	935275998118	PCA9515ADP
7303	935275998118	PCA9515ADP
7308	319801042310	BC847BW
7310		For SW see item 0815
7311	932224553671	M30300SAGP
7312	932222946685	BD45275G
7314	319801042310	BC847BW
7317	319801042310	BC847BW
7322	319801044110	PDTC114ET
7323	932224685685	NL27WZ08USG
7410	932219811685	L78L08ACU
7411	932225185671	MSP4450K-VK-E8-001
7500	319801042030	BC847B
7502	319801042320	BC857BW
7503	319801042030	BC847B
7504	319801042320	BC857BW
7601	935277231125	74LVC1G3157GW
7603	319801044110	PDTC114ET
7700	932224397671	EP2C5F256C7N
7901	932218305668	TS482ID
7902	319801042320	BC857BW
7911	319801042310	BC847BW
7912	319801042310	BC847BW
7913	319801042310	BC847BW
7914	319801042310	BC847BW
7915	319801042310	BC847BW
7916	319801042310	BC847BW
7922	319801042310	BC847BW
1A01	242202518123	Conn. 4p m 2.00 Wh
1A02	242202518122	Conn. 3p m 2.00 Wh
1A03	242202518122	Conn. 3p m 2.00 Wh
1B12	242202518125	Conn. 6p m 2.00 Wh
1B13	242202518127	Conn. 8p m 2.00 Wh
1C24	242254301624	Xtal 24MHz 18pF NX5032
1J14	242202605905	Sock. Phone 1p f 3.5
1K00	242202520413	Sock. PCMCIA 68p f 1.27
1L20	242202518126	Conn. 7p m 2.00 Wh
1M02	242203300618	Sock. HDMI 19p f SM
1M03	242203300618	Sock. HDMI 19p f SM
1N01	242202520569	Conn. 21p f 0.5
1N02	242254301517	Xtal 28M322 18pF NX5032
1R01	242202520345	Conn. 41p f 1.00 FX15S
1R02	242254945325	Bead 67 Ohm at 100MHz
1R03	242254945325	Bead 67 Ohm at 100MHz
1R04	242254945325	Bead 67 Ohm at 100MHz
1R05	242254945325	Bead 67 Ohm at 100MHz
1R06	242254945325	Bead 67 Ohm at 100MHz

Item	Philips 12NC	Description
1R08	242254945325	Bead 67 Ohm at 100MHz
1R09	242254945325	Bead 67 Ohm at 100MHz
1R10	242254945325	Bead 67 Ohm at 100MHz
1R11	242254945325	Bead 67 Ohm at 100MHz
1R12	242254945325	Bead 67 Ohm at 100MHz
2A01	319801731040	100nF 16V 0603
2A02	319801731040	100nF 16V 0603
2A04	202002100215	220uF 20% 25V
2A08	202002100215	220uF 20% 25V
2A09	319801731040	100nF 16V 0603
2A10	319801731040	100nF 16V 0603
2A11	319802751080	1uF 10V X5R 0603
2A12	319801632210	220pF 10% 50V 0603
2A13	319801742240	220nF 16V Y5V 0603
2A14	202055200247	470nF 10% 25V 0603
2A15	319802751080	1uF 10V X5R 0603
2A16	319802751080	1uF 10V X5R 0603
2A17	319801631020	1nF 25V 0603
2A18	319801631020	1nF 25V 0603
2A19	319801632210	220pF 10% 50V 0603
2A20	319802751080	1uF 10V X5R 0603
2A21	319801631020	1nF 25V 0603
2A22	319801731040	100nF 16V 0603
2A23	319801631020	1nF 25V 0603
2A24	319801731040	100nF 16V 0603
2A25	319801731530	15nF 50V 0603
2A26	319801742240	220nF 16V Y5V 0603
2A27	319801731530	15nF 50V 0603
2A28	202055200247	470nF 10% 25V 0603
2A29	319801731040	100nF 16V 0603
2A30	319801731040	100nF 16V 0603
2A31	319801631020	1nF 25V 0603
2A32	319801631020	1nF 25V 0603
2A33	319801731040	100nF 16V 0603
2A34	319801731040	100nF 16V 0603
2A35	319801631020	1nF 25V 0603
2A36	319801631020	1nF 25V 0603
2A37	319801742240	220nF 16V Y5V 0603
2A38	319801742240	220nF 16V Y5V 0603
2A40	202055200247	470nF 10% 25V 0603
2A41	319802751080	1uF 10V X5R 0603
2A45	319801631020	1nF 25V 0603
2A46	319802444730	47NF Y5V 50V 0603
2A47	319802444730	47NF Y5V 50V 0603
2A51	319801731020	1nF 50V 0603
2A53	319801731020	1nF 50V 0603
2B06	319801731020	1nF 50V 0603
2B10	319803041010	1005F 20% 16V
2B12	202055200211	22uF 10% 16V 1210
2B18	319803041090	10pF 20% 16V
2B21	319801731040	100nF 16V 0603
2B22	319803074780	4.7uF 20% 35V
2B24	319803044790	47pF 20% 16V SMD
2B25	319801732210	220pF 20% 50V 0603
2B26	319801732230	22nF 20% 25V 0603
2B27	319801731030	10nF 20% 50V 0603
2B65	319801731040	100nF 16V 0603
2B66	202001200003	4705F 16V 20% SMD
2B68	319801732210	220pF 20% 50V 0603
2C01	319801631890	18pF 1% 50V 0603
2C02	319801631890	18pF 1% 50V 0603
2C03	319802341040	100nF 10% 100V 0603
2C04	319802341040	100nF 10% 100V 0603
2C05	319802341040	100nF 10% 100V 0603
2C06	319802341040	100nF 10% 100V 0603
2C07	319802341040	100nF 10% 100V 0603
2C08	319802341040	100nF 10% 100V 0603
2C09	319802341040	100nF 10% 100V 0603
2C10	319802341040	100nF 10% 100V 0603
2C11	319802341040	100nF 10% 100V 0603
2C12	319802341040	100nF 10% 100V 0603
2C13	319802341040	100nF 10% 100V 0603
2C14	319802341040	100nF 10% 100V 0603
2C15	319802341040	100nF 10% 100V 0603

Item	Philips 12NC	Description
2C17	319802341040	100nF 10% 100V 0603
2C18	319802341040	100nF 10% 100V 0603
2C19	319802341040	100nF 10% 100V 0603
2C20	319802341040	100nF 10% 100V 0603
2C21	319802341040	100nF 10% 100V 0603
2C22	319801731040	100nF 16V 0603
2C23	202055200291	10uF 20% 6.3V 0603
2C24	319801731040	100nF 16V 0603
2C25	319801731040	100nF 16V 0603
2C26	319801731040	100nF 16V 0603
2C27	202055200291	10uF 20% 6.3V 0603
2C28	319801731040	100nF 16V 0603
2C29	202055200291	10uF 20% 6.3V 0603
2C30	319802341040	100nF 10% 100V 0603
2C81	223858615628	2.7nF 10% 50V 0603
2C82	223858615628	2.7nF 10% 50V 0603
2D02	319801731040	100nF 16V 0603
2D03	319801731040	100nF 16V 0603
2D04	319801731030	10nF 20% 50V 0603
2D08	319801731030	10nF 20% 50V 0603
2D09	319801731030	10nF 20% 50V 0603
2D10	319801731040	100nF 16V 0603
2D11	319801634710	470pF 10% 50V 0603
2D12	319801634710	470pF 10% 50V 0603
2D14	319801731030	10nF 20% 50V 0603
2D18	202055200291	10uF 20% 6.3V 0603
2D31	319801731040	100nF 16V 0603
2D32	319801731040	100nF 16V 0603
2D33	319801731040	100nF 16V 0603
2D34	319801731040	100nF 16V 0603
2D37	319801731040	100nF 16V 0603
2D38	319801731040	100nF 16V 0603
2D39	319801731040	100nF 16V 0603
2D43	319801634710	470pF 10% 50V 0603
2D46	202055200291	10uF 20% 6.3V 0603
2D57	319801731030	10nF 20% 50V 0603
2D58	319801731030	10nF 20% 50V 0603
2D59	319801731030	10nF 20% 50V 0603
2D60	319801634710	470pF 10% 50V 0603
2D71	319803022290	ELCAP 6V3 22UF
2D72	319801731030	10nF 20% 50V 0603
2E01	202055200291	10uF 20% 6.3V 0603
2E02	319801731040	100nF 16V 0603
2E03	202055200291	10uF 20% 6.3V 0603
2E04	319801731040	100nF 16V 0603
2E05	202055200291	10uF 20% 6.3V 0603
2E06	319801731040	100nF 16V 0603
2E07	319801731040	100nF 16V 0603
2E08	319801731040	100nF 16V 0603
2E09	319801731040	100nF 16V 0603
2E10	202055200291	10uF 20% 6.3V 0603
2E11	319801731040	100nF 16V 0603
2E12	202055200291	10uF 20% 6.3V 0603
2E13	319801631010	100pF 10% 50V 0603
2E14	319801631010	100pF 10% 50V 0603
2E15	319801631010	100pF 10% 50V 0603
2E16	319801631010	100pF 10% 50V 0603
2E17	319801631010	100pF 10% 50V 0603
2E18	319801631010	100pF 10% 50V 0603
2E19	319801731040	100nF 16V 0603
2E20	202055200291	10uF 20% 6.3V 0603
2E21	319801731040	100nF 16V 0603
2E22	202055200291	10uF 20% 6.3V 0603
2E23	319801731040	100nF 16V 0603
2E24	202055200291	10uF 20% 6.3V 0603
2E25	319801731040	100nF 16V 0603
2E26	202055200291	10uF 20% 6.3V 0603
2E27	319801731040	100nF 16V 0603
2E28	202055200291	10uF 20% 6.3V 0603
2E29	319801731040	100nF 16V 0603
2E30	202055200291	10uF 20% 6.3V 0603
2E31	319801731040	100nF 16V 0603
2E32	202055200291	10uF 20% 6.3V 0603
2E33	319801731040	100nF 16V 0603
2E34	202055200291	10uF 20% 6.3V 0603
2E35	319801731040	100nF 16V 0603
2E36	319801731040	100nF 16V 0603
2E37	319801731040	100nF 16V 0603
2E38	319801731040	100nF 16V 0603
2E39	319801731040	100nF 16V 0603
2E40	319801731040	100nF 16V 0603
2E41	319801731040	100nF 16V 0603
2E42	319801731040	100nF 16V 0603
2E43	202055200291	10uF 20% 6.3V 0603
2E44	319801731040	100nF 16V 0603
2E45	319801731040	100nF 16V 0603
2E46	319801731040	100nF 16V 0603
2E47	319801731040	100nF 16V 0603
2E48	202055200291	10uF 20% 6.3V 0603
2E49	319801731040	100nF 16V 0603
2E50	319801731040	100nF 16V 0603
2E51	319801731040	100nF 16V 0603
2E52	319801731040	100nF 16V 0603
2E53	319801731040	100nF 16V 0603
2E54	319801731040	100nF 16V 0603
2E55	319801731040	100nF 16V 0603
2E56	319801731040	100nF 16V 0603
2E57	202055200291	10uF 20% 6.3V 0603
2E58	319801731040	100nF 16V 0603
2E66	202055200291	10uF 20% 6.3V 0603
2E67	319801731040	100nF 16V 0603
2E68	319802702290	22uF 10% 6.3V 0805
2E69	319801731040	100nF 16V 0603
2E70	319802702290	22uF 10% 6.3V 0805
2E71	319802702290	22uF 10% 6.3V 0805
2E72	319801731040	100nF 16V 0603
2E75	319801634710	470pF 10% 50V 0603
2E76	319801634710	470pF 10% 50V 0603
2F10	319801731040	100nF 16V 0603
2F11	319803044790	47pF 20% 16V SMD
2F12	319801731040	100nF 16V 0603
2F13	319801731040	100nF 16V 0603
2F14	319801731040	100nF 16V 0603
2F15	319801731040	100nF 16V 0603
2F16	319801731040	100nF 16V 0603
2F17	319801731040	100nF 16V 0603
2F18	319801731040	100nF 16V 0603
2F19	319801731040	100nF 16V 0603
2F20	319801731040	100nF 16V 0603
2F21	319803044790	47pF 20% 16V SMD
2F22	319801731040	100nF 16V 0603
2F23	319801731040	100nF 16V 0603
2F24	319801731040	100nF 16V 0603
2F25	319801731040	100nF 16V 0603
2F26	319801731040	100nF 16V 0603
2F27	319801731040	100nF 16V 0603
2F28	319801731040	100nF 16V 0603
2F29	319801731040	100nF 16V 0603
2F30	319801731040	100nF 16V 0603
2F31	319801731040	100nF 16V 0603
2F32	319801731040	100nF 16V 0603
2F33	319801631090	10pF 10% 50V 0603
2G02	319803041090	10pF 20% 16V
2G03	319801731040	100nF 16V 0603
2G04	319801731040	100nF 16V 0603
2G05	319801731040	100nF 16V 0603
2G06	319801731040	100nF 16V 0603
2G07	319801731040	100nF 16V 0603
2G08	319801731040	100nF 16V 0603
2G09	319801731040	100nF 16V 0603
2G10	319801731040	100nF 16V 0603
2G11	319801731040	100nF 16V 0603
2G12	319801731040	100nF 16V 0603
2G13	319801731040	100nF 16V 0603
2G14	319801731040	100nF 16V 0603
2G15	319801731040	100nF 16V 0603
2G16	319801731040	100nF 16V 0603
2G17	319803041090	10pF 20% 16V
2G18	319803041090	10pF 20% 16V
2G19	319801731040	100nF 16V 0603
2G20	319801731040	100nF 16V 0603
2G21	319801731040	100nF 16V 0603
2G22	319803041090	10pF 20% 16V
2G23	319803041090	10pF 20% 16V
2G24	319803041090	10pF 20% 16V
2G32	319801731040	100nF 16V 0603
2G33	319803041090	10pF 20% 16V
2H03	319801731040	100nF 16V 0603
2H04	319801731040	100nF 16V 0603
2H06	319803041090	10pF 20% 16V
2H07	319803041090	10pF 20% 16V
2H08	319801731040	100nF 16V 0603
2H09	319801731040	100nF 16V 0603
2H10	319801731040	100nF 16V 0603
2H11	319801731040	100nF 16V 0603
2H12	319801731040	100nF 16V 0603
2H13	319801731040	100nF 16V 0603
2H14	319801732240	220nF 20% 10V 0603
2H15	319801732240	220nF 20% 10V 0603
2J01	319803041090	10pF 20% 16V
2J02	319801731040	100nF 16V 0603
2J04	319803042290	22uF 20% 16V
2J05	319803041010	1005F 20% 16V
2J06	319801731040	100nF 16V 0603
2J62	319801636890	CER1 0603 NP0 50V 68P
2J63	319801631810	180pF 10% 50V 0603
2J66	319801631810	180pF 10% 50V 0603
2J67	319801636890	CER1 0603 NP0 50V 68P
2J69	319801631810	180pF 10% 50V 0603
2J70	319801636890	CER1 0603 NP0 50V 68P
2J72	319801631810	180pF 10% 50V 0603
2J73	319801636890	CER1 0603 NP0 50V 68P
2K00	319801731040	100nF 16V 0603
2K01	319801731040	100nF 16V 0603
2K02	319801731040	100nF 16V 0603
2K03	319801731040	100nF 16V 0603
2K04	319801731040	100nF 16V 0603
2K05	319801731040	100nF 16V 0603
2K06	319803041090	10pF 20% 16V
2K07	319803041090	10pF 20% 16V
2K08	319801731040	100nF 16V 0603
2K09	319801731040	100nF 16V 0603
2K10	319801731040	100nF 16V 0603
2K11	319803041090	10pF 20% 16V
2K12	319801731040	100nF 16V 0603
2K13	319803041090	10pF 20% 16V
2K14	319801731020	1nF 50V 0603
2K15	319801631010	100pF 10% 50V 0603
2K16	319801734730	47nF 10% 16V 0603
2K17	319801734730	47nF 10% 16V 0603
2L24	319801732240	220nF 20% 10V 0603
2L25	319801732240	220nF 20% 10V 0603
2M01	202055200291	10uF 20% 6.3V 0603
2M02	202055200291	10uF 20% 6.3V 0603
2M03	319801731040	100nF 16V 0603
2M04	319801731040	100nF 16V 0603
2M05	319801731040	100nF 16V 0603
2M06	319801731040	100nF 16V 0603
2M07	202055200291	10uF 20% 6.3V 0603
2M08	202055200291	10uF 20% 6.3V 0603
2M09	319801731040	100nF 16V 0603
2M10	319801731040	100nF 16V 0603
2M11	319803041010	1005F 20% 16V
2M12	319801731040	100nF 16V 0603
2M15	202055200291	10uF 20% 6.3V 0603
2M16	319801731040	100nF 16V 0603
2M17	319801731040	100nF 16V 0603
2M19	319801731040	100nF 16V 0603
2M20	319801731040	100nF 16V 0603
2M21	319801731040	100nF 16V 0603
2N03	319803024790	47uF 20% 6.3V
2N04	319801731040	100nF 16V 0603

Item	Philips 12NC	Description
2N05	319801731040	100nF 16V 0603
2N06	319803024790	47uF 20% 6.3V
2N07	319801731030	10nF 20% 50V 0603
2N08	319801731030	10nF 20% 50V 0603
2N09	202055200291	10uF 20% 6.3V 0603
2N10	202055200291	10uF 20% 6.3V 0603
2N11	319803024790	47uF 20% 6.3V
2N12	319801731040	100nF 16V 0603
2N13	319801631890	18pF 1% 50V 0603
2N14	319801631890	18pF 1% 50V 0603
2N15	319801631020	1nF 25V 0603
2N16	319801731040	100nF 16V 0603
2N17	319802341040	100nF 10% 100V 0603
2N18	319801731020	1nF 50V 0603
2N20	319802341040	100nF 10% 100V 0603
2N25	319801631020	1nF 25V 0603
2N26	319801731020	1nF 50V 0603
2N27	319802341040	100nF 10% 100V 0603
2N28	319801731020	1nF 50V 0603
2N29	319801731020	1nF 50V 0603
2N30	319802341040	100nF 10% 100V 0603
2N31	319801731020	1nF 50V 0603
2N32	319801731020	1nF 50V 0603
2N33	319802341040	100nF 10% 100V 0603
2N34	319801731020	1nF 50V 0603
2N35	319802341040	100nF 10% 100V 0603
2N36	319801731040	100nF 16V 0603
2N37	319802341040	100nF 10% 100V 0603
2N38	319801731020	1nF 50V 0603
2N39	319801731020	1nF 50V 0603
2N40	319802341040	100nF 10% 100V 0603
2N41	319801731020	1nF 50V 0603
2N42	319801731020	1nF 50V 0603
2N43	319801731020	1nF 50V 0603
2N44	319801731040	100nF 16V 0603
2N45	319801731020	1nF 50V 0603
2N46	319801731020	1nF 50V 0603
2N47	319801731040	100nF 16V 0603
2N48	319801731020	1nF 50V 0603
2N49	319801631020	1nF 25V 0603
2N50	319802341040	100nF 10% 100V 0603
2N51	319801731020	1nF 50V 0603
2N52	319801731020	1nF 50V 0603
2N53	319801731040	100nF 16V 0603
2N54	319801631020	1nF 25V 0603
2N55	319801731020	1nF 50V 0603
2N56	319802341040	100nF 10% 100V 0603
2N58	319801731020	1nF 50V 0603
2N59	319801731020	1nF 50V 0603
2N60	319801731020	1nF 50V 0603
2N61	319801731020	1nF 50V 0603
2N62	319801731020	1nF 50V 0603
2N63	319801731020	1nF 50V 0603
2N64	319802341040	100nF 10% 100V 0603
2N66	319801731020	1nF 50V 0603
2N67	319801731040	100nF 16V 0603
2P07	319801731040	100nF 16V 0603
2P28	202055200211	22uF 10% 16V 1210
2P29	202055200211	22uF 10% 16V 1210
2P30	202055200211	22uF 10% 16V 1210
2P31	202055200169	1uF 25V Y5V 0603
2P32	319801733320	3.3nF 50V 0603
2P33	319801733320	3.3nF 50V 0603
2P34	202055200211	22uF 10% 16V 1210
2P35	319801731020	1nF 50V 0603
2P36	319801731040	100nF 16V 0603
2P37	319801733320	3.3nF 50V 0603
2P38	319801731020	1nF 50V 0603
2P39	319801731040	100nF 16V 0603
2P40	319801731040	100nF 16V 0603
2P41	319801731040	100nF 16V 0603
2P42	319801731040	100nF 16V 0603
2P43	319801733320	3.3nF 50V 0603
2P46	319803011010	100uF 20% 4V

Item	Philips 12NC	Description
2P48	319801631010	100pF 10% 50V 0603
2P49	319801631010	100pF 10% 50V 0603
2P52	319801731020	1nF 50V 0603
2P53	319801731020	1nF 50V 0603
2P54	319801731040	100nF 16V 0603
2P55	319803011010	100uF 20% 4V
2P56	319803011010	100uF 20% 4V
2P59	319803011010	100uF 20% 4V
2P61	202055200211	22uF 10% 16V 1210
2P68	319803011010	100uF 20% 4V
2P72	319803011010	100uF 20% 4V
2P73	319801732230	22nF 20% 25V 0603
2P78	202055200169	1uF 25V Y5V 0603
2R10	202055296448	1uF 10% 16V 0805
2R11	319803044790	47pF 20% 16V SMD
2R12	319801731040	100nF 16V 0603
3A01	212010894133	10 Ohm 5% 1206
3A02	212010894133	10 Ohm 5% 1206
3A03	319802131030	10k Ohm 5% 0.062W 0603
3A04	319802131230	12k Ohm 5% 0.062W 0603
3A05	232276260229	22 Ohm 5% 2512
3A06	319802131030	10k Ohm 5% 0.062W 0603
3A07	319802131030	10k Ohm 5% 0.062W 0603
3A08	319802131230	12k Ohm 5% 0.062W 0603
3A09	319802131090	TDA8932T/N1 IC
3A11	319802131030	10k Ohm 5% 0.062W 0603
3A12	319802131050	1M Ohm 5% 0603
3A13	319802133930	39k Ohm 5% 0.062W 0605
3A14	232276260229	22 Ohm 5% 2512
3A15	319802131050	1M Ohm 5% 0603
3A17	319802131090	TDA8932T/N1 IC
3A19	319802131030	10k Ohm 5% 0.062W 0603
3A26	319802134720	4.7k Ohm 5% 0603
3A27	319802132240	220k Ohm 5% 0603
3A28	319802132240	220k Ohm 5% 0603
3A29	319802134730	47k Ohm 5% 0603
3A30	319802134730	47k Ohm 5% 0603
3A31	319802131030	10k Ohm 5% 0.062W 0603
3B12	232270461502	1k5 1% 0603
3B17	319802136820	6.8k Ohm 5% 0603
3B18	319802136820	6.8k Ohm 5% 0603
3B19	319802136820	6.8k Ohm 5% 0603
3B65	319802134720	4.7k Ohm 5% 0603
3B66	232270461002	1k Ohm 1% 0603
3B68	319802131010	100 Ohm 5% 0.062W 0603
3C01	319802131050	1M Ohm 5% 0603
3C02	319802133390	33 Ohm 5% 0.062W 0603
3C03	319803111010	4*100 Ohm 5% 1206
3C04	319803111010	4*100 Ohm 5% 1206
3C05	319803111010	4*100 Ohm 5% 1206
3C06	319803111010	4*100 Ohm 5% 1206
3C08	319802131010	100 Ohm 5% 0.062W 0603
3C09	319802131010	100 Ohm 5% 0.062W 0603
3C10	319802132290	22 Ohm 5% 0603
3C19	232270464701	470 Ohm 1% 0603
3C20	319802131020	1k Ohm 5% 0.062W 0603
3C22	319802134720	4.7k Ohm 5% 0603
3C23	319802132210	220 Ohm 5% 0603
3C24	319802131010	100 Ohm 5% 0.062W 0603
3C25	319802131030	10k Ohm 5% 0.062W 0603
3C40	319802134720	4.7k Ohm 5% 0603
3C41	319802134720	4.7k Ohm 5% 0603
3C42	319802134720	4.7k Ohm 5% 0603
3D01	319803112290	4*22 Ohm 5% 1206
3D02	319803112290	4*22 Ohm 5% 1206
3D05	319803112290	4*22 Ohm 5% 1206
3D06	319803112290	4*22 Ohm 5% 1206
3D09	319802131590	15 Ohm 5% 0.062W 0603
3D10	232270465109	51 Ohm 1% 0603
3D11	319802131590	15 Ohm 5% 0.062W 0603
3D14	232270465109	51 Ohm 1% 0603
3D15	319802131020	1k Ohm 5% 0.062W 0603
3D16	319802131020	1k Ohm 5% 0.062W 0603
3D38	319802131590	15 Ohm 5% 0.062W 0603

Item	Philips 12NC	Description
3D40	319802131590	15 Ohm 5% 0.062W 0603
3D43	319803112290	4*22 Ohm 5% 1206
3D44	319803112290	4*22 Ohm 5% 1206
3D47	319803112290	4*22 Ohm 5% 1206
3D48	319803112290	4*22 Ohm 5% 1206
3E02	319802132290	22 Ohm 5% 0603
3E04	319802132290	22 Ohm 5% 0603
3E06	319802134720	4.7k Ohm 5% 0603
3E07	319802190030	Jumper 0603
3F10	319802134710	470 Ohm 5% 0603
3F11	319802136840	680k Ohm 5% 0.062W 0603
3F12	319802133310	330 Ohm 5% 0.062W 0603
3F13	319802132240	220k Ohm 5% 0603
3F14	319802133310	330 Ohm 5% 0.062W 0603
3F15	319802136840	680k Ohm 5% 0.062W 0603
3F16	319802133910	390 Ohm 5% 0.062W 0603
3F17	319802132240	220k Ohm 5% 0603
3F18	319802131030	10k Ohm 5% 0.062W 0603
3F19	319802134720	4.7k Ohm 5% 0603
3F20	319802134720	4.7k Ohm 5% 0603
3F21	319802133390	33 Ohm 5% 0.062W 0603
3F23	319802134720	4.7k Ohm 5% 0603
3F24	319802131040	100k Ohm 5% 0.062W 0603
3F25	319802131040	100k Ohm 5% 0.062W 0603
3F26	319802131020	1k Ohm 5% 0.062W 0603
3F28	319802131040	100k Ohm 5% 0.062W 0603
3F29	319802131040	100k Ohm 5% 0.062W 0603
3F30	319802133390	33 Ohm 5% 0.062W 0603
3F31	319803113390	4*33 Ohm 5% 1206
3F32	319803113390	4*33 Ohm 5% 1206
3F33	319802131030	10k Ohm 5% 0.062W 0603
3F34	319803113390	4*33 Ohm 5% 1206
3F40	319802131010	100 Ohm 5% 0.062W 0603
3F41	319802132720	2.7k Ohm 5% 0603
3F42	319802132720	2.7k Ohm 5% 0603
3F44	319802131010	100 Ohm 5% 0.062W 0603
3F46	319802131010	100 Ohm 5% 0.062W 0603
3F48	319802131010	100 Ohm 5% 0.062W 0603
3G11	319802131030	10k Ohm 5% 0.062W 0603
3G12	319802131030	10k Ohm 5% 0.062W 0603
3G16	319802131030	10k Ohm 5% 0.062W 0603
3G17	319802131030	10k Ohm 5% 0.062W 0603
3G19	319802131030	10k Ohm 5% 0.062W 0603
3G20	319802131030	10k Ohm 5% 0.062W 0603
3G28	319802131030	10k Ohm 5% 0.062W 0603
3G30	319802131030	10k Ohm 5% 0.062W 0603
3G31	319802131030	10k Ohm 5% 0.062W 0603
3G33	319802132290	22 Ohm 5% 0603
3G34	319802132290	22 Ohm 5% 0603
3G35	319802132290	22 Ohm 5% 0603
3G37	319802131030	10k Ohm 5% 0.062W 0603
3G38	319802131030	10k Ohm 5% 0.062W 0603
3G40	232270461202	1.2k Ohm 1%
3G41	319802131030	10k Ohm 5% 0.062W 0603
3G43	319802131010	100 Ohm 5% 0.062W 0603
3G44	319802131010	100 Ohm 5% 0.062W 0603
3G46	319802131010	100 Ohm 5% 0.062W 0603
3G47	319802131010	100 Ohm 5% 0.062W 0603
3G48	319802133390	33 Ohm 5% 0.062W 0603
3G54	319802131030	10k Ohm 5% 0.062W 0603
3G56	319803113390	4*33 Ohm 5% 1206
3G57	319803113390	4*33 Ohm 5% 1206
3G58	319803113390	4*33 Ohm 5% 1206
3G59	319803113390	4*33 Ohm 5% 1206
3G60	319802133390	33 Ohm 5% 0.062W 0603
3G61	319802133390	33 Ohm 5% 0.062W 0603
3G62	319802133390	33 Ohm 5% 0.062W 0603
3G63	319802131030	10k Ohm 5% 0.062W 0603
3H00	319802133320	3.3k Ohm 5% 0.062W 0603
3H05	319802131030	10k Ohm 5% 0.062W 0603
3H09	319802131010	100 Ohm 5% 0.062W 0603
3H10	319802131010	100 Ohm 5% 0.062W 0603
3H11	319802131030	10k Ohm 5% 0.062W 0603
3H12	319802133320	3.3k Ohm 5% 0.062W 0603

Item	Philips 12NC	Description
3H13	319802133320	3.3k Ohm 5% 0.062W 0603
3H14	212010894132	1 Ohm 1206
3J01	319802132230	22k Ohm 5% 0603
3J02	319802131230	12k Ohm 5% 0.062W 0603
3J03	319802131010	100 Ohm 5% 0.062W 0603
3J59	319802131810	180 Ohm 5% 0.062W 0603
3J60	319802134790	47 Ohm 5% 0603
3J61	319802131810	180 Ohm 5% 0.062W 0603
3J62	319802134790	47 Ohm 5% 0603
3J63	319802131810	180 Ohm 5% 0.062W 0603
3J64	319802134790	47 Ohm 5% 0603
3J65	319802131810	180 Ohm 5% 0.062W 0603
3J66	319802134790	47 Ohm 5% 0603
3K00	319802131010	100 Ohm 5% 0.062W 0603
3K01	319802131010	100 Ohm 5% 0.062W 0603
3K02	319803113390	4*33 Ohm 5% 1206
3K03	319803113390	4*33 Ohm 5% 1206
3K04	319802131030	10k Ohm 5% 0.062W 0603
3K05	319803113390	4*33 Ohm 5% 1206
3K06	319802131030	10k Ohm 5% 0.062W 0603
3K07	319802131030	10k Ohm 5% 0.062W 0603
3K08	319802131030	10k Ohm 5% 0.062W 0603
3K09	319802131030	10k Ohm 5% 0.062W 0603
3K10	319802131030	10k Ohm 5% 0.062W 0603
3K11	319802131030	10k Ohm 5% 0.062W 0603
3K12	319802131030	10k Ohm 5% 0.062W 0603
3K13	232270462002	2k Ohm 1% 0603
3K15	319802131030	10k Ohm 5% 0.062W 0603
3K16	319802131030	10k Ohm 5% 0.062W 0603
3K17	319802131030	10k Ohm 5% 0.062W 0603
3K18	319802131030	10k Ohm 5% 0.062W 0603
3K19	319802131030	10k Ohm 5% 0.062W 0603
3K20	319802131030	10k Ohm 5% 0.062W 0603
3K21	319802131030	10k Ohm 5% 0.062W 0603
3K22	319802131030	10k Ohm 5% 0.062W 0603
3K23	319803113390	4*33 Ohm 5% 1206
3K24	319803113390	4*33 Ohm 5% 1206
3K25	319802133390	33 Ohm 5% 0.062W 0603
3K26	319802133390	33 Ohm 5% 0.062W 0603
3K27	319802134790	47 Ohm 5% 0603
3K28	319802134790	47 Ohm 5% 0603
3K29	319802134790	47 Ohm 5% 0603
3K30	319802134790	47 Ohm 5% 0603
3K31	319802134790	47 Ohm 5% 0603
3K32	319802134790	47 Ohm 5% 0603
3K33	319802134790	47 Ohm 5% 0603
3K34	319803114790	4*47 Ohm 5% 1206
3K38	319802134790	47 Ohm 5% 0603
3K39	319802134790	47 Ohm 5% 0603
3K40	319802134790	47 Ohm 5% 0603
3K41	319802134790	47 Ohm 5% 0603
3K42	319802134790	47 Ohm 5% 0603
3K43	319802134790	47 Ohm 5% 0603
3K44	319802134790	47 Ohm 5% 0603
3K45	319802134790	47 Ohm 5% 0603
3K46	319802134790	47 Ohm 5% 0603
3K47	319802134790	47 Ohm 5% 0603
3K48	319802134790	47 Ohm 5% 0603
3K49	319802133390	33 Ohm 5% 0.062W 0603
3K50	319802133390	33 Ohm 5% 0.062W 0603
3K51	319802134720	4.7k Ohm 5% 0603
3K52	319802134720	4.7k Ohm 5% 0603
3L01	319802134720	4.7k Ohm 5% 0603
3L02	319802131010	100 Ohm 5% 0.062W 0603
3L03	319802131030	10k Ohm 5% 0.062W 0603
3L04	319802131520	1.5k Ohm 5% 0.062W 0603
3L05	319802131010	100 Ohm 5% 0.062W 0603
3L10	212010894132	1 Ohm 1206
3L11	319802131010	100 Ohm 5% 0.062W 0603
3L15	319802133310	330 Ohm 5% 0.062W 0603
3L16	319802131020	1k Ohm 5% 0.062W 0603
3L17	319802131010	100 Ohm 5% 0.062W 0603
3L22	319802190030	Jumper 0603
3L23	319802190030	Jumper 0603

Item	Philips 12NC	Description
3L28	319802134720	4.7k Ohm 5% 0603
3L53	319802131010	100 Ohm 5% 0.062W 0603
3L54	319802131010	100 Ohm 5% 0.062W 0603
3L55	319802131030	10k Ohm 5% 0.062W 0603
3L56	319802131010	100 Ohm 5% 0.062W 0603
3L57	319802131010	100 Ohm 5% 0.062W 0603
3L58	319802131010	100 Ohm 5% 0.062W 0603
3L59	319802131010	100 Ohm 5% 0.062W 0603
3L60	319802131010	100 Ohm 5% 0.062W 0603
3L61	319802131010	100 Ohm 5% 0.062W 0603
3L62	319802131010	100 Ohm 5% 0.062W 0603
3L63	319802131010	100 Ohm 5% 0.062W 0603
3L67	319802131010	100 Ohm 5% 0.062W 0603
3L71	319802132290	22 Ohm 5% 0603
3L72	319802134730	47k Ohm 5% 0603
3L73	319802134730	47k Ohm 5% 0603
3L75	319802132220	2.2k Ohm 5% 0603
3L76	319802132220	2.2k Ohm 5% 0603
3L79	319802131030	10k Ohm 5% 0.062W 0603
3L86	319802132230	22k Ohm 5% 0603
3L94	319802134720	4.7k Ohm 5% 0603
3L95	319802134720	4.7k Ohm 5% 0603
3L96	319802131040	100k Ohm 5% 0.062W 0603
3M07	319802131010	100 Ohm 5% 0.062W 0603
3M08	319802132220	2.2k Ohm 5% 0603
3M09	319802134720	4.7k Ohm 5% 0603
3M10	319802134710	470 Ohm 5% 0603
3M13	319802131010	100 Ohm 5% 0.062W 0603
3M14	319802131010	100 Ohm 5% 0.062W 0603
3M15	319802131010	100 Ohm 5% 0.062W 0603
3M20	319802131010	100 Ohm 5% 0.062W 0603
3M21	319802131010	100 Ohm 5% 0.062W 0603
3M31	319802132220	2.2k Ohm 5% 0603
3M32	319802138230	82k Ohm 5% 0.062W 0603
3M34	319802134720	4.7k Ohm 5% 0603
3M37	319802134730	47k Ohm 5% 0603
3M38	319802134730	47k Ohm 5% 0603
3M39	319802134730	47k Ohm 5% 0603
3M40	319802134730	47k Ohm 5% 0603
3N01	319802133390	33 Ohm 5% 0.062W 0603
3N02	319803113390	4*33 Ohm 5% 1206
3N03	319802133390	33 Ohm 5% 0.062W 0603
3N04	319803113390	4*33 Ohm 5% 1206
3N05	319802133390	33 Ohm 5% 0.062W 0603
3N06	319803113390	4*33 Ohm 5% 1206
3N07	319802133390	33 Ohm 5% 0.062W 0603
3N08	319803113390	4*33 Ohm 5% 1206
3N09	319802133390	33 Ohm 5% 0.062W 0603
3N10	319802133390	33 Ohm 5% 0.062W 0603
3N11	319803113390	4*33 Ohm 5% 1206
3N12	319803113390	4*33 Ohm 5% 1206
3N13	319802133390	33 Ohm 5% 0.062W 0603
3N14	319802133390	33 Ohm 5% 0.062W 0603
3N15	319802133390	33 Ohm 5% 0.062W 0603
3N16	319802133390	33 Ohm 5% 0.062W 0603
3N18	319803113390	4*33 Ohm 5% 1206
3N22	319802133390	33 Ohm 5% 0.062W 0603
3N23	212010894132	1 Ohm 1206
3N24	319802131050	1M Ohm 5% 0603
3N25	319802132210	220 Ohm 5% 0603
3N26	319802132210	220 Ohm 5% 0603
3N27	212010894132	1 Ohm 1206
3N33	319802134720	4.7k Ohm 5% 0603
3N34	319802134720	4.7k Ohm 5% 0603
3N35	319802134720	4.7k Ohm 5% 0603
3N36	319802134720	4.7k Ohm 5% 0603
3N37	319802134720	4.7k Ohm 5% 0603
3N38	319802134720	4.7k Ohm 5% 0603
3N39	319802131010	100 Ohm 5% 0.062W 0603
3N40	319802131010	100 Ohm 5% 0.062W 0603
3P13	319802131090	TDA8932T/N1 IC
3P20	212010894133	10 Ohm 5% 1206
3P23	319802131090	TDA8932T/N1 IC
3P25	319802131090	TDA8932T/N1 IC

Item	Philips 12NC	Description
3P26	319802132280	2R2 5% 0603
3P32	319802132280	2R2 5% 0603
3P34	319802133320	3.3k Ohm 5% 0.062W 0603
3P37	319802136820	6.8k Ohm 5% 0603
3P38	319802131020	1k Ohm 5% 0.062W 0603
3P40	319802133930	39k Ohm 5% 0.062W 0605
3P41	319802136820	6.8k Ohm 5% 0603
3P45	319802136820	6.8k Ohm 5% 0603
3P47	319802136890	68 Ohm 5% 0.062W 0603
3P48	319802136890	68 Ohm 5% 0.062W 0603
3P49	319802132210	220 Ohm 5% 0603
3P50	319802131020	1k Ohm 5% 0.062W 0603
3P51	232270461801	180 Ohm 1% 0603
3P53	232270466801	680 Ohm 1% 0603
3P54	319802131030	10k Ohm 5% 0.062W 0603
3P56	232270464701	470 Ohm 1% 0603
3P59	232270464701	470 Ohm 1% 0603
3P61	319802131090	TDA8932T/N1 IC
3P64	232270466801	680 Ohm 1% 0603
3P68	319802136820	6.8k Ohm 5% 0603
3P69	319802136820	6.8k Ohm 5% 0603
3P70	319802133320	3.3k Ohm 5% 0.062W 0603
3P71	319802136820	6.8k Ohm 5% 0603
3P72	319802136820	6.8k Ohm 5% 0603
3P74	319802136820	6.8k Ohm 5% 0603
3P77	232270461002	1k Ohm 1% 0603
3P78	319802131020	1k Ohm 5% 0.062W 0603
3R10	319802134730	47k Ohm 5% 0603
3R12	319802134790	47 Ohm 5% 0603
3R13	319802134730	47k Ohm 5% 0603
3R25	319802131010	100 Ohm 5% 0.062W 0603
3R26	319802131010	100 Ohm 5% 0.062W 0603
4B04	319802190030	Jumper 0603
4B05	319802190030	Jumper 0603
4B06	319802190030	Jumper 0603
4B07	319802190030	Jumper 0603
4C07	319802190030	Jumper 0603
4F12	319802190030	Jumper 0603
4G01	319802190030	Jumper 0603
4G02	319802190030	Jumper 0603
4G03	319802190030	Jumper 0603
4G04	319802190030	Jumper 0603
4G09	319802190030	Jumper 0603
4G31	319802190030	Jumper 0603
4H00	319802190030	Jumper 0603
4H02	319802190030	Jumper 0603
4H04	319802190030	Jumper 0603
4H05	319802190030	Jumper 0603
4H12	319802190030	Jumper 0603
4J14	319802190030	Jumper 0603
4J15	319802190030	Jumper 0603
4L20	319802190030	Jumper 0603
4L24	319802190030	Jumper 0603
4L25	319802190030	Jumper 0603
4L26	319802190030	Jumper 0603
4M01	319802190030	Jumper 0603
4M04	319802190030	Jumper 0603
4M05	319802190030	Jumper 0603
4M07	319802190030	Jumper 0603
4M08	319802190030	Jumper 0603
4M09	319802190030	Jumper 0603
4M11	319802190030	Jumper 0603
4N02	319802190030	Jumper 0603
4N03	319802190030	Jumper 0603
4N04	319802190030	Jumper 0603
4N05	319802190030	Jumper 0603
4N06	319802190030	Jumper 0603
4N07	319802190030	Jumper 0603
4N08	319802190030	Jumper 0603
4P01	319802190030	Jumper 0603
4P02	319802190030	Jumper 0603
4R02	319802190030	Jumper 0603
4R03	319802190030	Jumper 0603
4R04	319802190030	Jumper 0603

Item	Philips 12NC	Description
4R05	319802190030	Jumper 0603
4R06	319802190030	Jumper 0603
4R07	319802190030	Jumper 0603
4R08	319802190030	Jumper 0603
5A03	242253601564	22uF 20%
5A04	242253601564	22uF 20%
5A05	242254942958	Bead 0805 30R at 100MHz
5A06	242254942958	Bead 0805 30R at 100MHz
5A07	242254901582	Bead 0603 33R at 100MHz
5A08	242253594134	105H 20% 0805
5A09	242253594134	105H 20% 0805
5B01	242253594134	105H 20% 0805
5B05	242253601564	22uF 20%
5B08	242253600779	105uH 20%
5C06	242254901582	Bead 0603 33R at 100MHz
5C07	242254901582	Bead 0603 33R at 100MHz
5C08	242254901582	Bead 0603 33R at 100MHz
5D03	242254901582	Bead 0603 33R at 100MHz
5E03	242254901582	Bead 0603 33R at 100MHz
5E04	242254901582	Bead 0603 33R at 100MHz
5E05	242254901582	Bead 0603 33R at 100MHz
5E06	242254901582	Bead 0603 33R at 100MHz
5E07	242254901582	Bead 0603 33R at 100MHz
5E08	242254901582	Bead 0603 33R at 100MHz
5E09	242254901582	Bead 0603 33R at 100MHz
5E10	242254901582	Bead 0603 33R at 100MHz
5E11	242254901582	Bead 0603 33R at 100MHz
5E12	242254901582	Bead 0603 33R at 100MHz
5E13	242254901582	Bead 0603 33R at 100MHz
5E14	242254901582	Bead 0603 33R at 100MHz
5E16	242254901582	Bead 0603 33R at 100MHz
5E17	242254901582	Bead 0603 33R at 100MHz
5F10	242254942979	Ind. 100MHz 60Ohm 0603
5F11	242254942979	Ind. 100MHz 60Ohm 0603
5G04	242254942979	Ind. 100MHz 60Ohm 0603
5G05	242254901582	Bead 0603 33R at 100MHz
5G06	242254901582	Bead 0603 33R at 100MHz
5G07	242254901582	Bead 0603 33R at 100MHz
5H01	242254942979	Ind. 100MHz 60Ohm 0603
5H02	242254942979	Ind. 100MHz 60Ohm 0603
5H03	242254942979	Ind. 100MHz 60Ohm 0603
5J01	242254942979	Ind. 100MHz 60Ohm 0603
5J52	319801853380	3.35H 10% 0603
5J53	319801853380	3.35H 10% 0603
5J54	319801853380	3.35H 10% 0603
5J55	319801853380	3.35H 10% 0603
5K01	242254942979	Ind. 100MHz 60Ohm 0603
5K02	242254942979	Ind. 100MHz 60Ohm 0603
5K03	242254942979	Ind. 100MHz 60Ohm 0603
5K04	242254942979	Ind. 100MHz 60Ohm 0603
5K05	242254942979	Ind. 100MHz 60Ohm 0603
5M01	242254901582	Bead 0603 33R at 100MHz
5M02	242254901582	Bead 0603 33R at 100MHz
5M03	242254901582	Bead 0603 33R at 100MHz
5N01	242254942896	Ind. 120 Ohm 100MHz
5N02	242254942896	Ind. 120 Ohm 100MHz
5N03	242254942896	Ind. 120 Ohm 100MHz
5N04	242254942896	Ind. 120 Ohm 100MHz
5N05	242254942896	Ind. 120 Ohm 100MHz
5N06	242254942896	Ind. 120 Ohm 100MHz
5N07	242254942896	Ind. 120 Ohm 100MHz
5N08	242254942896	Ind. 120 Ohm 100MHz
5N09	242254942896	Ind. 120 Ohm 100MHz
5P01	242253600671	10uH 20%
5P02	242253594134	105H 20% 0805
5P09	242253600671	10uH 20%
5R02	242254901582	Bead 0603 33R at 100MHz
5R03	242254901582	Bead 0603 33R at 100MHz
6B30	319801010720	SS24
6J03	319801010630	BAS316
6J14	934058419115	PESD3V3L1BA
6J15	934058419115	PESD3V3L1BA
6M08	319801010660	BAT54
6P05	319802056880	BZX384-C6V8
6P12	319802056880	BZX384-C6V8
6P13	319801010630	BAS316
6P14	319801010630	BAS316
6P15	319802051890	BZX384-C18
6R02	319802055680	BZX384-C5V6
7A01	935279642118	TDA8932T/N1
7A05	319801042320	BC857BW
7A06	319801042310	BC847BW
7A07	319801042310	BC847BW
7B01	932220234668	L5973D
7B02	932211988668	LD1117DT33C
7B12	932221214668	SI4423DY
7C01	932224957671	SVP WX68-7568-LF
7C02	319801042310	BC847BW
7C04	319801042310	BC847BW
7D01	932225195671	K4D261638K-LC40
7D02	932225195671	K4D261638K-LC40
7F01	935273245518	TDA10046AHT/C1
7F02	935263016165	74AHC1GU04GW
7F03	935263016165	74AHC1GU04GW
7F04	319801070580	LM393D
7G00	935277355557	PNX8314HS/C102
7H00		For SW see item 0851
7H02	932224127668	K4S281632I-UC60
7H03		For SW see item 0852
7J04	932221400668	SI2301BDS-E3
7J05	319801044110	PDTC114ET
7K00	932222791671	STV0700L
7K01	935219010118	74LVC573ADB
7K02	935219010118	74LVC573ADB
7K03	319801070650	74LVC245APW
7K04	272217100207	Xtal 27MHz 50P
7K05	932217513668	ST890CD
7L10	319801042310	BC847BW
7L23		For SW see item 0816
7M01	932216761668	LF18CD
7M04	319801042310	BC847BW
7M07	932225506671	SII9185ACTU
7M09	319801042310	BC847BW
7N01	932225010671	SII9125CTU
7N07	935266839118	UDA1334ATS/N2
7P05	319801044340	BC817-25W
7P06	932216070668	SI4936ADY-E3
7P07	932216070668	SI4936ADY-E3
7P08	932221350685	TS431AIL
7P09	934057587118	PHD38N02LT
7P11	932220746668	NCP5422AD
7R05	932220471668	SI4835BDY
7R07	319801044110	PDTC114ET

Table 10-12 SSB: 32 and 42PFL7962D/12 (3139 268 52501)

Item	Philips 12NC	Description
0233	313918758541	Top shield assy
0237	313918758531	Bottom shield assy
0476	310430312201	EMC foam 2.3x2.3x32.5
0484	310430310871	EMC foam tuner
1101	311229714001	Tuner TD1316AF/IHP-2
1102	932204272682	SAW 38MHz9 K3953M
1103	242254944341	SAW 38MHz9 K9656M
1104	242254301386	Xtal 4MHz00 20pF SMD-49
1201	242202518124	Conn. 5p m 2.00 Wh
1203	242202518125	Conn. 6p m 2.00 Wh
1204	272217108785	Xtal 27MHz 30pF DSO751
1301	242254301526	Crystal 12pF 10MHz
1304	242202518131	Conn. 11p m 2.00 Wh
1305	242202518129	Conn. 10p m 2.00 Wh
1314	242202605905	Sock. Phone 1p f 3.5
1411	242254301461	Xtal 18.432MHz 12pF
1504	242202520251	Sock. SCART 21p f Bk
1506	242202520251	Sock. SCART 21p f Bk
1601	242203300675	Sock. 2p f CINCH/MDIN
1615	242202605985	Sock. CINCH 4p f 2L2
2112	202055200211	22uF 10% 16V 1210
2113	319801731030	10nF 20% 50V 0603
2117	319801731030	10nF 20% 50V 0603
2118	319801731030	10nF 20% 50V 0603
2120	202055200211	22uF 10% 16V 1210
2121	319801631590	15pF 10% 50V 0603
2122	319801631590	15pF 10% 50V 0603
2123	319801731520	1.5nF 20% 50V 0603
2125	319801744740	470pF 5% 10V 0603
2126	319801742240	220nF 16V Y5V 0603
2127	319801632290	22pF 10% 50V 0603
2128	319801731030	10nF 20% 50V 0603
2129	202055200211	22uF 10% 16V 1210
2130	319801731030	10nF 20% 50V 0603
2131	202055200211	22uF 10% 16V 1210
2132	202055200211	22uF 10% 16V 1210
2133	319801731030	10nF 20% 50V 0603
2136	319801744740	470pF 5% 10V 0603
2137	319801731030	10nF 20% 50V 0603
2138	319801731030	10nF 20% 50V 0603
2139	319801633910	390pF 50V NP0 0603
2143	319801731020	1nF 50V 0603
2145	319801731020	1nF 50V 0603
2146	319801741050	1uF 5% 10V 0603
2147	223878619856	330nF 20% 160V 0603
2148	319801731040	100nF 16V 0603
2149	319802752280	2.2uF 10V X5R 0603
2203	319801631020	1nF 25V 0603
2204	319801631020	1nF 25V 0603
2211	319801731030	10nF 20% 50V 0603
2214	202055296858	10uF 10% 6V3 X5R 0805
2310	319801731040	100nF 16V 0603
2311	202055200291	10uF 20% 6.3V 0603
2312	319801731040	100nF 16V 0603
2313	319801731040	100nF 16V 0603
2314	319801631590	15pF 10% 50V 0603
2315	319801731040	100nF 16V 0603
2316	319801631590	15pF 10% 50V 0603
2317	319801731040	100nF 16V 0603
2318	319801731040	100nF 16V 0603
2320	319801731040	100nF 16V 0603
2323	319801731040	100nF 16V 0603
2324	202055296807	1uF 5% 10V 0603
2327	319801731030	10nF 20% 50V 0603
2329	319801731020	1nF 50V 0603
2330	319801731020	1nF 50V 0603
2331	319801731020	1nF 50V 0603
2332	319801731020	1nF 50V 0603
2333	319801731020	1nF 50V 0603
2335	319801731020	1nF 50V 0603

Item	Philips 12NC	Description
2336	319801731020	1nF 50V 0603
2337	319801731020	1nF 50V 0603
2338	319801732240	220nF 20% 10V 0603
2341	319802341040	100nF 10% 100V 0603
2408	319801734710	470pF 50V X7R 0603
2409	319801731520	1.5nF 20% 50V 0603
2410	202002100215	220uF 20% 25V
2411	202055200291	10uF 20% 6.3V 0603
2412	319801632210	220pF 10% 50V 0603
2413	319801632210	220pF 10% 50V 0603
2414	202055200291	10uF 20% 6.3V 0603
2415	319801633380	3.3pF 50V 0603
2416	319801633380	3.3pF 50V 0603
2417	319801733310	330pF 50V X7R 0603
2418	319801733310	330pF 50V X7R 0603
2419	319801731040	100nF 16V 0603
2420	319803041090	10pF 20% 16V
2421	319801633310	330pF 1% 50V 0603
2422	319801633310	330pF 1% 50V 0603
2423	319803041090	10pF 20% 16V
2424	202055200291	10uF 20% 6.3V 0603
2425	202055200291	10uF 20% 6.3V 0603
2426	202055200291	10uF 20% 6.3V 0603
2427	202055200291	10uF 20% 6.3V 0603
2428	319801631010	100pF 10% 50V 0603
2429	319801631010	100pF 10% 50V 0603
2430	319801631010	100pF 10% 50V 0603
2431	319801631010	100pF 10% 50V 0603
2432	319801635690	56pF 10% 50V 0603
2433	319801633310	330pF 1% 50V 0603
2434	319801633310	330pF 1% 50V 0603
2435	319801633310	330pF 1% 50V 0603
2436	202055200291	10uF 20% 6.3V 0603
2437	202055200291	10uF 20% 6.3V 0603
2438	319801731040	100nF 16V 0603
2439	202055200247	470nF 10% 25V 0603
2440	202055200247	470nF 10% 25V 0603
2441	319801731520	1.5nF 20% 50V 0603
2442	319801734710	470pF 50V X7R 0603
2443	319801731520	1.5nF 20% 50V 0603
2444	319801734710	470pF 50V X7R 0603
2445	319801731040	100nF 16V 0603
2502	319801733310	330pF 50V X7R 0603
2506	319801733310	330pF 50V X7R 0603
2508	319801733310	330pF 50V X7R 0603
2509	319801732240	220nF 20% 10V 0603
2512	319801731020	1nF 50V 0603
2514	319801733310	330pF 50V X7R 0603
2515	319801732240	220nF 20% 10V 0603
2517	319801731020	1nF 50V 0603
2518	319801732240	220nF 20% 10V 0603
2520	319801731020	1nF 50V 0603
2521	319801732240	220nF 20% 10V 0603
2523	319801731020	1nF 50V 0603
2525	319801732240	220nF 20% 10V 0603
2533	319801732240	220nF 20% 10V 0603
2534	319801732240	220nF 20% 10V 0603
2536	319801732240	220nF 20% 10V 0603
2607	319801732240	220nF 20% 10V 0603
2608	319801733320	3.3nF 50V 0603
2610	319801732240	220nF 20% 10V 0603
2612	319801733320	3.3nF 50V 0603
2613	319801731040	100nF 16V 0603
2614	319801731040	100nF 16V 0603
2615	319801731040	100nF 16V 0603
2701	202055296448	1uF 10% 16V 0805
2702	319801741030	10nF 50V Y5V 0603
2703	319801741030	10nF 50V Y5V 0603
2704	319801741030	10nF 50V Y5V 0603
2705	319801741030	10nF 50V Y5V 0603
2706	202055200141	4.75F 10% 6.3V 0805
2707	319801741030	10nF 50V Y5V 0603
2708	319801741030	10nF 50V Y5V 0603
2709	319801741030	10nF 50V Y5V 0603

Item	Philips 12NC	Description
2710	319801741030	10nF 50V Y5V 0603
2711	319801741030	10nF 50V Y5V 0603
2712	319801741030	10nF 50V Y5V 0603
2713	319801741030	10nF 50V Y5V 0603
2714	319801741030	10nF 50V Y5V 0603
2715	319801741030	10nF 50V Y5V 0603
2717	202055200141	4.75F 10% 6.3V 0805
2718	319801741030	10nF 50V Y5V 0603
2719	319801741030	10nF 50V Y5V 0603
2720	319801741030	10nF 50V Y5V 0603
2721	319801741030	10nF 50V Y5V 0603
2724	319803014790	475uF 20% 4V
2725	319801741030	10nF 50V Y5V 0603
2726	319801741030	10nF 50V Y5V 0603
2729	202055296448	1uF 10% 16V 0805
2730	319801741030	10nF 50V Y5V 0603
2901	319801633390	33pF 50V NP0 0603
2902	319801744740	470pF 5% 10V 0603
2904	319801744740	470pF 5% 10V 0603
2905	319801633390	33pF 50V NP0 0603
2907	319801744740	470pF 5% 10V 0603
2908	319801732240	220nF 20% 10V 0603
2913	319801732240	220nF 20% 10V 0603
2915	319803024790	47uF 20% 6.3V
2916	319803024790	47uF 20% 6.3V
3110	319802138220	8.2k Ohm 5% 0.062W 0603
3111	319802135620	5.6k Ohm 5% 0.062W 0603
3113	319802136820	6.8k Ohm 5% 0603
3115	319802133930	39k Ohm 5% 0.062W 0605
3117	319802132220	2.2k Ohm 5% 0603
3118	319802132220	2.2k Ohm 5% 0603
3119	319802132230	22k Ohm 5% 0603
3123	319802133310	330 Ohm 5% 0.062W 0603
3124	319802131010	100 Ohm 5% 0.062W 0603
3125	319802131510	150 Ohm 5% 0603
3126	319802131810	180 Ohm 5% 0.062W 0603
3127	319802135620	5.6k Ohm 5% 0.062W 0603
3133	212010894132	1 Ohm 1206
3134	212010894132	1 Ohm 1206
3135	319802131590	15 Ohm 5% 0.062W 0603
3136	232276260479	47Ohm 5% 2512
3137	232276260479	47Ohm 5% 2512
3140	319802131510	150 Ohm 5% 0603
3151	319802131010	100 Ohm 5% 0.062W 0603
3152	319802131010	100 Ohm 5% 0.062W 0603
3188	319802131830	18k Ohm 5% 0603
3193	319802132230	22k Ohm 5% 0603
3194	319802132230	22k Ohm 5% 0603
3195	319802131830	18k Ohm 5% 0603
3201	319802131010	100 Ohm 5% 0.062W 0603
3202	319802131010	100 Ohm 5% 0.062W 0603
3203	319802131520	1.5k Ohm 5% 0.062W 0603
3204	319802131520	1.5k Ohm 5% 0.062W 0603
3205	319802131010	100 Ohm 5% 0.062W 0603
3206	319802131010	100 Ohm 5% 0.062W 0603
3231	319802131020	1k Ohm 5% 0.062W 0603
3234	319802131010	100 Ohm 5% 0.062W 0603
3235	319802131010	100 Ohm 5% 0.062W 0603
3236	319802134790	47 Ohm 5% 0603
3240	319802131010	100 Ohm 5% 0.062W 0603
3246	319802131010	100 Ohm 5% 0.062W 0603
3300	319802131220	1.2k Ohm 5% 0.062W 0603
3303	319802131010	100 Ohm 5% 0.062W 0603
3306	319802131020	1k Ohm 5% 0.062W 0603
3310	319802131020	1k Ohm 5% 0.062W 0603
3313	319802133310	330 Ohm 5% 0.062W 0603
3314	319802131030	10k Ohm 5% 0.062W 0603
3315	319802131010	100 Ohm 5% 0.062W 0603
3316	319802131030	10k Ohm 5% 0.062W 0603
3317	319802133310	330 Ohm 5% 0.062W 0603
3318	319802131010	100 Ohm 5% 0.062W 0603
3319	319802131030	10k Ohm 5% 0.062W 0603
3320	319802131010	100 Ohm 5% 0.062W 0603
3322	319802131010	100 Ohm 5% 0.062W 0603

Item	Philips 12NC	Description
3323	319802131010	100 Ohm 5% 0.062W 0603
3324	319802131030	10k Ohm 5% 0.062W 0603
3325	319802131030	10k Ohm 5% 0.062W 0603
3329	319802131010	100 Ohm 5% 0.062W 0603
3336	319802131010	100 Ohm 5% 0.062W 0603
3338	319802131010	100 Ohm 5% 0.062W 0603
3339	319802131010	100 Ohm 5% 0.062W 0603
3340	319802131010	100 Ohm 5% 0.062W 0603
3341	319802131010	100 Ohm 5% 0.062W 0603
3343	319802131010	100 Ohm 5% 0.062W 0603
3345	319802131010	100 Ohm 5% 0.062W 0603
3346	319802131010	100 Ohm 5% 0.062W 0603
3347	319802131030	10k Ohm 5% 0.062W 0603
3348	319802134790	47 Ohm 5% 0603
3349	319802131030	10k Ohm 5% 0.062W 0603
3350	319802131030	10k Ohm 5% 0.062W 0603
3351	319802133320	3.3k Ohm 5% 0.062W 0603
3352	319802133320	3.3k Ohm 5% 0.062W 0603
3353	319802131030	10k Ohm 5% 0.062W 0603
3354	319802131010	100 Ohm 5% 0.062W 0603
3355	319802131010	100 Ohm 5% 0.062W 0603
3357	319802131010	100 Ohm 5% 0.062W 0603
3359	319802134720	4.7k Ohm 5% 0603
3360	319802134720	4.7k Ohm 5% 0603
3361	319802133320	3.3k Ohm 5% 0.062W 0603
3362	319802133320	3.3k Ohm 5% 0.062W 0603
3380	319802131010	100 Ohm 5% 0.062W 0603
3382	319802131010	100 Ohm 5% 0.062W 0603
3384	319802132290	22 Ohm 5% 0603
3386	319802131010	100 Ohm 5% 0.062W 0603
3387	319802131010	100 Ohm 5% 0.062W 0603
3388	319802131010	100 Ohm 5% 0.062W 0603
3389	319802134790	47 Ohm 5% 0603
3390	319802134790	47 Ohm 5% 0603
3391	319802134790	47 Ohm 5% 0603
3393	319802131530	15k Ohm 5% 0603
3395	319802131520	1.5k Ohm 5% 0.062W 0603
3396	319802131020	1k Ohm 5% 0.062W 0603
3397	319802134730	47k Ohm 5% 0603
3398	319802131040	100k Ohm 5% 0.062W 0603
3399	319802131030	10k Ohm 5% 0.062W 0603
3402	212010894132	1 Ohm 1206
3410	319802131010	100 Ohm 5% 0.062W 0603
3411	319802131010	100 Ohm 5% 0.062W 0603
3417	319802131010	100 Ohm 5% 0.062W 0603
3418	319802131010	100 Ohm 5% 0.062W 0603
3419	319802131010	100 Ohm 5% 0.062W 0603
3420	319802131010	100 Ohm 5% 0.062W 0603
3500	319802131510	150 Ohm 5% 0603
3502	319802131510	150 Ohm 5% 0603
3503	319802131510	150 Ohm 5% 0603
3506	319802131510	150 Ohm 5% 0603
3507	319802131510	150 Ohm 5% 0603
3508	319802133330	33k Ohm 5% 0.062W 0603
3510	319802131510	150 Ohm 5% 0603
3511	319802133330	33k Ohm 5% 0.062W 0603
3512	319802131510	150 Ohm 5% 0603
3513	319802133330	33k Ohm 5% 0.062W 0603
3514	319802131510	150 Ohm 5% 0603
3515	319802133330	33k Ohm 5% 0.062W 0603
3516	319802131010	100 Ohm 5% 0.062W 0603
3517	319802137590	75 Ohm 5% 0603
3518	319802132730	27k Ohm 5% 0603
3519	319802131590	15 Ohm 5% 0.062W 0603
3520	319802136820	6.8k Ohm 5% 0603
3521	319802131020	1k Ohm 5% 0.062W 0603
3522	319802136890	68 Ohm 5% 0.062W 0603
3523	319802131010	100 Ohm 5% 0.062W 0603
3524	319802131590	15 Ohm 5% 0.062W 0603
3525	319802131020	1k Ohm 5% 0.062W 0603
3526	319802137590	75 Ohm 5% 0603
3528	319802131010	100 Ohm 5% 0.062W 0603
3529	319802131010	100 Ohm 5% 0.062W 0603
3530	319802137590	75 Ohm 5% 0603

Item	Philips 12NC	Description
3531	319802137590	75 Ohm 5% 0603
3532	319802131020	1k Ohm 5% 0.062W 0603
3533	319802137590	75 Ohm 5% 0603
3535	319802136890	68 Ohm 5% 0.062W 0603
3536	319802131020	1k Ohm 5% 0.062W 0603
3537	319802131020	1k Ohm 5% 0.062W 0603
3538	319802134720	4.7k Ohm 5% 0603
3540	319802134720	4.7k Ohm 5% 0603
3545	319802131010	100 Ohm 5% 0.062W 0603
3546	319802137590	75 Ohm 5% 0603
3550	319802132730	27k Ohm 5% 0603
3551	319802136820	6.8k Ohm 5% 0603
3552	319802131010	100 Ohm 5% 0.062W 0603
3553	319802137590	75 Ohm 5% 0603
3554	319802136890	68 Ohm 5% 0.062W 0603
3555	319802136890	68 Ohm 5% 0.062W 0603
3600	319802131010	100 Ohm 5% 0.062W 0603
3601	319802137590	75 Ohm 5% 0603
3602	319802131010	100 Ohm 5% 0.062W 0603
3603	319802137590	75 Ohm 5% 0603
3604	319802137590	75 Ohm 5% 0603
3605	319802137590	75 Ohm 5% 0603
3607	319802131510	150 Ohm 5% 0603
3608	319802133330	33k Ohm 5% 0.062W 0603
3609	319802137590	75 Ohm 5% 0603
3611	319802131510	150 Ohm 5% 0603
3612	319802133330	33k Ohm 5% 0.062W 0603
3617	319802133390	33 Ohm 5% 0.062W 0603
3618	319802133390	33 Ohm 5% 0.062W 0603
3619	319802133390	33 Ohm 5% 0.062W 0603
3620	319802134720	4.7k Ohm 5% 0603
3700	319802131030	10k Ohm 5% 0.062W 0603
3701	319802131030	10k Ohm 5% 0.062W 0603
3702	319802131030	10k Ohm 5% 0.062W 0603
3703	319802131030	10k Ohm 5% 0.062W 0603
3713	319802131810	180 Ohm 5% 0.062W 0603
3714	319802131810	180 Ohm 5% 0.062W 0603
3720	319802132290	22 Ohm 5% 0603
3721	319802131810	180 Ohm 5% 0.062W 0603
3722	319802132290	22 Ohm 5% 0603
3723	319802132290	22 Ohm 5% 0603
3724	319802131810	180 Ohm 5% 0.062W 0603
3725	319802132290	22 Ohm 5% 0603
3726	319802132290	22 Ohm 5% 0603
3727	319802131810	180 Ohm 5% 0.062W 0603
3728	319802132290	22 Ohm 5% 0603
3729	319802132290	22 Ohm 5% 0603
3730	319802131810	180 Ohm 5% 0.062W 0603
3731	319802132290	22 Ohm 5% 0603
3732	319802132290	22 Ohm 5% 0603
3733	319802131810	180 Ohm 5% 0.062W 0603
3734	319802132290	22 Ohm 5% 0603
3735	319802132290	22 Ohm 5% 0603
3736	319802131810	180 Ohm 5% 0.062W 0603
3737	319802132290	22 Ohm 5% 0603
3738	319802132290	22 Ohm 5% 0603
3739	319802131810	180 Ohm 5% 0.062W 0603
3740	319802132290	22 Ohm 5% 0603
3741	319802132290	22 Ohm 5% 0603
3742	319802131810	180 Ohm 5% 0.062W 0603
3743	319802132290	22 Ohm 5% 0603
3744	319802132290	22 Ohm 5% 0603
3745	319802131810	180 Ohm 5% 0.062W 0603
3746	319802132290	22 Ohm 5% 0603
3747	319802132290	22 Ohm 5% 0603
3748	319802131810	180 Ohm 5% 0.062W 0603
3749	319802132290	22 Ohm 5% 0603
3750	319802132290	22 Ohm 5% 0603
3751	319802132290	22 Ohm 5% 0603
3752	319802132290	22 Ohm 5% 0603
3753	319802132290	22 Ohm 5% 0603
3901	319802134730	47k Ohm 5% 0603
3902	232270260124	120k Ohm 5% 0603
3904	319802133390	33 Ohm 5% 0.062W 0603

Item	Philips 12NC	Description
3905	319802134730	47k Ohm 5% 0603
3906	319802131040	100k Ohm 5% 0.062W 0603
3907	319802131040	100k Ohm 5% 0.062W 0603
3908	232270260124	120k Ohm 5% 0603
3910	319802133390	33 Ohm 5% 0.062W 0603
3911	319802131030	10k Ohm 5% 0.062W 0603
3912	319802131030	10k Ohm 5% 0.062W 0603
3913	319802131020	1k Ohm 5% 0.062W 0603
3914	319802131020	1k Ohm 5% 0.062W 0603
3915	319802131020	1k Ohm 5% 0.062W 0603
3916	319802131020	1k Ohm 5% 0.062W 0603
3917	319802131020	1k Ohm 5% 0.062W 0603
3918	319802131020	1k Ohm 5% 0.062W 0603
3942	319802131030	10k Ohm 5% 0.062W 0603
3943	319802132230	22k Ohm 5% 0603
4112	319802190030	Jumper 0603
4115	319802190030	Jumper 0603
4116	319802190030	Jumper 0603
4117	319802190030	Jumper 0603
4118	319802190030	Jumper 0603
4119	319802190030	Jumper 0603
4123	319802190030	Jumper 0603
4124	319802190030	Jumper 0603
4125	319802190030	Jumper 0603
4201	319802190030	Jumper 0603
4204	319802190030	Jumper 0603
4205	319802190030	Jumper 0603
4309	319802190030	Jumper 0603
4310	319802190030	Jumper 0603
4316	319802190030	Jumper 0603
4326	319802190030	Jumper 0603
4401	319802190030	Jumper 0603
4402	319802190030	Jumper 0603
4409	319802190030	Jumper 0603
4410	319802190030	Jumper 0603
4412	319802190030	Jumper 0603
4602	319802190030	Jumper 0603
4700	319802190030	Jumper 0603
4703	319802190030	Jumper 0603
4704	319802190030	Jumper 0603
4705	319802190030	Jumper 0603
4706	319802190030	Jumper 0603
4707	319802190030	Jumper 0603
4708	319802190030	Jumper 0603
4709	319802190030	Jumper 0603
4710	319802190030	Jumper 0603
4711	319802190030	Jumper 0603
4712	319802190030	Jumper 0603
4713	319802190030	Jumper 0603
4714	319802190030	Jumper 0603
4715	319802190030	Jumper 0603
4716	319802190030	Jumper 0603
4717	319802190030	Jumper 0603
4718	319802190030	Jumper 0603
4719	319802190030	Jumper 0603
4720	319802190030	Jumper 0603
4721	319802190030	Jumper 0603
4722	319802190030	Jumper 0603
4723	319802190030	Jumper 0603
4724	319802190030	Jumper 0603
4725	319802190030	Jumper 0603
4726	319802190030	Jumper 0603
5111	242253601057	0.39uH 5% 0603
5112	242254901582	Bead 0603 33R at 100MHz
5114	242253601521	Ind. 10uH 10% 1207
5115	242253601521	Ind. 10uH 10% 1207
5118	242254901582	Bead 0603 33R at 100MHz
5120	319801890030	120 Ohm 100MHz 0603
5121	319801890030	120 Ohm 100MHz 0603
5201	242254901582	Bead 0603 33R at 100MHz
5202	242254943769	ind. 100MHz 30Ohm
5301	242254942979	Ind. 100MHz 60Ohm 0603
5302	242254942979	Ind. 100MHz 60Ohm 0603
5304	242254901582	Bead 0603 33R at 100MHz

Item	Philips 12NC	Description
5306	242254943276	Ind. 100MHz 30 Ohm 0603
5401	319801890030	120 Ohm 100MHz 0603
5402	319801890030	120 Ohm 100MHz 0603
5403	319801862290	22uH 5% 1008
5601	242254901582	Bead 0603 33R at 100MHz
5700	242254901582	Bead 0603 33R at 100MHz
5701	242254901582	Bead 0603 33R at 100MHz
5702	242254901582	Bead 0603 33R at 100MHz
5703	242254901582	Bead 0603 33R at 100MHz
5704	242254901582	Bead 0603 33R at 100MHz
5705	242254901582	Bead 0603 33R at 100MHz
6103	932210737685	1SS356
6110	319801010630	BAS316
6301	319801010630	BAS316
6306	934058419115	PESD3V3L1BA
6307	934058419115	PESD3V3L1BA
6318	319802058280	BZX384-C8V2
6512	932220595685	1N4148WS-V
6513	932220595685	1N4148WS-V
6919	319801010630	BAS316
7109	319801042030	BC847B
7111	933715320118	74HCT4053D (PHSE
7113	935272371118	TDA9886T/V4
7114	319801042030	BC847B
7133	932210447668	L78M05CDT
7134	319801042030	BC847B
7201	932221001668	EPCS4SI8N
7302	935275998118	PCA9515ADP
7303	935275998118	PCA9515ADP
7308	319801042310	BC847BW
7310		For SW see item 0815
7311	932224553671	M30300SAGP
7312	932222946685	BD45275G
7314	319801042310	BC847BW
7317	319801042310	BC847BW
7322	319801044110	PDTC114ET
7323	932224685685	NL27WZ08USG
7410	932219811685	L78L08ACU
7411	932225185671	MSP4450K-VK-E8-001
7500	319801042030	BC847B
7502	319801042320	BC857BW
7503	319801042030	BC847B
7504	319801042320	BC857BW
7601	935277231125	74LVC1G3157GW
7603	319801044110	PDTC114ET
7700	932224397671	EP2C5F256C7N
7901	932218305668	TS482ID
7902	319801042320	BC857BW
7911	319801042310	BC847BW
7912	319801042310	BC847BW
7913	319801042310	BC847BW
7914	319801042310	BC847BW
7915	319801042310	BC847BW
7916	319801042310	BC847BW
7922	319801042310	BC847BW
1A01	242202518123	Conn. 4p m 2.00 Wh
1A02	242202518122	Conn. 3p m 2.00 Wh
1A03	242202518122	Conn. 3p m 2.00 Wh
1B12	242202518125	Conn. 6p m 2.00 Wh
1B13	242202518127	Conn. 8p m 2.00 Wh
1C24	242254301624	Xtal 24MHz 18pF NX5032
1J14	242202605905	Sock. Phone 1p f 3.5
1K00	242202520413	Sock. PCMCIA 68p f 1.27
1L20	242202518126	Conn. 7p m 2.00 Wh
1M02	242203300618	Sock. HDMI 19p f SM
1M03	242203300618	Sock. HDMI 19p f SM
1N01	242202520569	Conn. 21p f 0.5
1N02	242254301517	Xtal 28M322 18pF NX5032
1R01	242202520345	Conn. 41p f 1.00 FX15S
1R02	242254945325	Bead 67 Ohm at 100MHz
1R03	242254945325	Bead 67 Ohm at 100MHz
1R04	242254945325	Bead 67 Ohm at 100MHz
1R05	242254945325	Bead 67 Ohm at 100MHz
1R06	242254945325	Bead 67 Ohm at 100MHz

Item	Philips 12NC	Description
1R08	242254945325	Bead 67 Ohm at 100MHz
1R09	242254945325	Bead 67 Ohm at 100MHz
1R10	242254945325	Bead 67 Ohm at 100MHz
1R11	242254945325	Bead 67 Ohm at 100MHz
1R12	242254945325	Bead 67 Ohm at 100MHz
2A01	319801731040	100nF 16V 0603
2A02	319801731040	100nF 16V 0603
2A04	202002100215	220uF 20% 25V
2A08	202002100215	220uF 20% 25V
2A09	319801731040	100nF 16V 0603
2A10	319801731040	100nF 16V 0603
2A11	319802751080	1uF 10V X5R 0603
2A12	319801632210	220pF 10% 50V 0603
2A13	319801742240	220nF 16V Y5V 0603
2A14	202055200247	470nF 10% 25V 0603
2A15	319802751080	1uF 10V X5R 0603
2A16	319802751080	1uF 10V X5R 0603
2A17	319801631020	1nF 25V 0603
2A18	319801631020	1nF 25V 0603
2A19	319801632210	220pF 10% 50V 0603
2A20	319802751080	1uF 10V X5R 0603
2A21	319801631020	1nF 25V 0603
2A22	319801731040	100nF 16V 0603
2A23	319801631020	1nF 25V 0603
2A24	319801731040	100nF 16V 0603
2A25	319801731530	15nF 50V 0603
2A26	319801742240	220nF 16V Y5V 0603
2A27	319801731530	15nF 50V 0603
2A28	202055200247	470nF 10% 25V 0603
2A29	319801731040	100nF 16V 0603
2A30	319801731040	100nF 16V 0603
2A31	319801631020	1nF 25V 0603
2A32	319801631020	1nF 25V 0603
2A33	319801731040	100nF 16V 0603
2A34	319801731040	100nF 16V 0603
2A35	319801631020	1nF 25V 0603
2A36	319801631020	1nF 25V 0603
2A37	319801742240	220nF 16V Y5V 0603
2A38	319801742240	220nF 16V Y5V 0603
2A40	202055200247	470nF 10% 25V 0603
2A41	319802751080	1uF 10V X5R 0603
2A45	319801631020	1nF 25V 0603
2A46	319802444730	47NF Y5V 50V 0603
2A47	319802444730	47NF Y5V 50V 0603
2A51	319801731020	1nF 50V 0603
2A53	319801731020	1nF 50V 0603
2B06	319801731020	1nF 50V 0603
2B10	319803041010	1005F 20% 16V
2B12	202055200211	22uF 10% 16V 1210
2B18	319803041090	10pF 20% 16V
2B21	319801731040	100nF 16V 0603
2B22	319803074780	4.7uF 20% 35V
2B24	319803044790	47pF 20% 16V SMD
2B25	319801732210	220pF 20% 50V 0603
2B26	319801732230	22nF 20% 25V 0603
2B27	319801731030	10nF 20% 50V 0603
2B65	319801731040	100nF 16V 0603
2B66	202001200003	4705F 16V 20% SMD
2B68	319801732210	220pF 20% 50V 0603
2C01	319801631890	18pF 1% 50V 0603
2C02	319801631890	18pF 1% 50V 0603
2C03	319802341040	100nF 10% 100V 0603
2C04	319802341040	100nF 10% 100V 0603
2C05	319802341040	100nF 10% 100V 0603
2C06	319802341040	100nF 10% 100V 0603
2C07	319802341040	100nF 10% 100V 0603
2C08	319802341040	100nF 10% 100V 0603
2C09	319802341040	100nF 10% 100V 0603
2C10	319802341040	100nF 10% 100V 0603
2C11	319802341040	100nF 10% 100V 0603
2C12	319802341040	100nF 10% 100V 0603
2C13	319802341040	100nF 10% 100V 0603
2C14	319802341040	100nF 10% 100V 0603
2C15	319802341040	100nF 10% 100V 0603
2C17	319802341040	100nF 10% 100V 0603
2C18	319802341040	100nF 10% 100V 0603
2C19	319802341040	100nF 10% 100V 0603
2C20	319802341040	100nF 10% 100V 0603
2C21	319802341040	100nF 10% 100V 0603
2C22	319801731040	100nF 16V 0603
2C23	202055200291	10uF 20% 6.3V 0603
2C24	319801731040	100nF 16V 0603
2C25	319801731040	100nF 16V 0603
2C26	319801731040	100nF 16V 0603
2C27	202055200291	10uF 20% 6.3V 0603
2C28	319801731040	100nF 16V 0603
2C29	202055200291	10uF 20% 6.3V 0603
2C30	319802341040	100nF 10% 100V 0603
2C81	223858615628	2.7nF 10% 50V 0603
2C82	223858615628	2.7nF 10% 50V 0603
2D02	319801731040	100nF 16V 0603
2D03	319801731040	100nF 16V 0603
2D04	319801731030	10nF 20% 50V 0603
2D08	319801731030	10nF 20% 50V 0603
2D09	319801731030	10nF 20% 50V 0603
2D10	319801731040	100nF 16V 0603
2D11	319801634710	470pF 10% 50V 0603
2D12	319801634710	470pF 10% 50V 0603
2D14	319801731030	10nF 20% 50V 0603
2D18	202055200291	10uF 20% 6.3V 0603
2D31	319801731040	100nF 16V 0603
2D32	319801731040	100nF 16V 0603
2D33	319801731040	100nF 16V 0603
2D34	319801731040	100nF 16V 0603
2D37	319801731040	100nF 16V 0603
2D38	319801731040	100nF 16V 0603
2D39	319801731040	100nF 16V 0603
2D43	319801634710	470pF 10% 50V 0603
2D46	202055200291	10uF 20% 6.3V 0603
2D57	319801731030	10nF 20% 50V 0603
2D58	319801731030	10nF 20% 50V 0603
2D59	319801731030	10nF 20% 50V 0603
2D60	319801634710	470pF 10% 50V 0603
2D71	319803022290	ELCAP 6V3 22UF
2D72	319801731030	10nF 20% 50V 0603
2E01	202055200291	10uF 20% 6.3V 0603
2E02	319801731040	100nF 16V 0603
2E03	202055200291	10uF 20% 6.3V 0603
2E04	319801731040	100nF 16V 0603
2E05	202055200291	10uF 20% 6.3V 0603
2E06	319801731040	100nF 16V 0603
2E07	319801731040	100nF 16V 0603
2E08	319801731040	100nF 16V 0603
2E09	319801731040	100nF 16V 0603
2E10	202055200291	10uF 20% 6.3V 0603
2E11	319801731040	100nF 16V 0603
2E12	202055200291	10uF 20% 6.3V 0603
2E13	319801631010	100pF 10% 50V 0603
2E14	319801631010	100pF 10% 50V 0603
2E15	319801631010	100pF 10% 50V 0603
2E16	319801631010	100pF 10% 50V 0603
2E17	319801631010	100pF 10% 50V 0603
2E18	319801631010	100pF 10% 50V 0603
2E19	319801731040	100nF 16V 0603
2E20	202055200291	10uF 20% 6.3V 0603
2E21	319801731040	100nF 16V 0603
2E22	202055200291	10uF 20% 6.3V 0603
2E23	319801731040	100nF 16V 0603
2E24	202055200291	10uF 20% 6.3V 0603
2E25	319801731040	100nF 16V 0603
2E26	202055200291	10uF 20% 6.3V 0603
2E27	319801731040	100nF 16V 0603
2E28	202055200291	10uF 20% 6.3V 0603
2E29	319801731040	100nF 16V 0603
2E30	202055200291	10uF 20% 6.3V 0603
2E31	319801731040	100nF 16V 0603
2E32	202055200291	10uF 20% 6.3V 0603
2E33	319801731040	100nF 16V 0603
2E34	202055200291	10uF 20% 6.3V 0603
2E35	319801731040	100nF 16V 0603
2E36	319801731040	100nF 16V 0603
2E37	319801731040	100nF 16V 0603
2E38	319801731040	100nF 16V 0603
2E39	319801731040	100nF 16V 0603
2E40	319801731040	100nF 16V 0603
2E41	319801731040	100nF 16V 0603
2E42	319801731040	100nF 16V 0603
2E43	202055200291	10uF 20% 6.3V 0603
2E44	319801731040	100nF 16V 0603
2E45	319801731040	100nF 16V 0603
2E46	319801731040	100nF 16V 0603
2E47	319801731040	100nF 16V 0603
2E48	202055200291	10uF 20% 6.3V 0603
2E49	319801731040	100nF 16V 0603
2E50	319801731040	100nF 16V 0603
2E51	319801731040	100nF 16V 0603
2E52	319801731040	100nF 16V 0603
2E53	319801731040	100nF 16V 0603
2E54	319801731040	100nF 16V 0603
2E55	319801731040	100nF 16V 0603
2E56	319801731040	100nF 16V 0603
2E57	202055200291	10uF 20% 6.3V 0603
2E58	319801731040	100nF 16V 0603
2E66	202055200291	10uF 20% 6.3V 0603
2E67	319801731040	100nF 16V 0603
2E68	319802702290	22uF 10% 6.3V 0805
2E69	319801731040	100nF 16V 0603
2E70	319802702290	22uF 10% 6.3V 0805
2E71	319802702290	22uF 10% 6.3V 0805
2E72	319801731040	100nF 16V 0603
2E75	319801634710	470pF 10% 50V 0603
2E76	319801634710	470pF 10% 50V 0603
2F10	319801731040	100nF 16V 0603
2F11	319803044790	47pF 20% 16V SMD
2F12	319801731040	100nF 16V 0603
2F13	319801731040	100nF 16V 0603
2F14	319801731040	100nF 16V 0603
2F15	319801731040	100nF 16V 0603
2F16	319801731040	100nF 16V 0603
2F17	319801731040	100nF 16V 0603
2F18	319801731040	100nF 16V 0603
2F19	319801731040	100nF 16V 0603
2F20	319801731040	100nF 16V 0603
2F21	319803044790	47pF 20% 16V SMD
2F22	319801731040	100nF 16V 0603
2F23	319801731040	100nF 16V 0603
2F24	319801731040	100nF 16V 0603
2F25	319801731040	100nF 16V 0603
2F26	319801731040	100nF 16V 0603
2F27	319801731040	100nF 16V 0603
2F28	319801731040	100nF 16V 0603
2F29	319801731040	100nF 16V 0603
2F30	319801731040	100nF 16V 0603
2F31	319801731040	100nF 16V 0603
2F32	319801731040	100nF 16V 0603
2F33	319801631090	10pF 10% 50V 0603
2G02	319803041090	10pF 20% 16V
2G03	319801731040	100nF 16V 0603
2G04	319801731040	100nF 16V 0603
2G05	319801731040	100nF 16V 0603
2G06	319801731040	100nF 16V 0603
2G07	319801731040	100nF 16V 0603
2G08	319801731040	100nF 16V 0603
2G09	319801731040	100nF 16V 0603
2G10	319801731040	100nF 16V 0603
2G11	319801731040	100nF 16V 0603
2G12	319801731040	100nF 16V 0603
2G13	319801731040	100nF 16V 0603
2G14	319801731040	100nF 16V 0603
2G15	319801731040	100nF 16V 0603
2G16	319801731040	100nF 16V 0603
2G17	319803041090	10pF 20% 16V

Item	Philips 12NC	Description
2G18	319803041090	10pF 20% 16V
2G19	319801731040	100nF 16V 0603
2G20	319801731040	100nF 16V 0603
2G21	319801731040	100nF 16V 0603
2G22	319803041090	10pF 20% 16V
2G23	319803041090	10pF 20% 16V
2G24	319803041090	10pF 20% 16V
2G32	319801731040	100nF 16V 0603
2G33	319803041090	10pF 20% 16V
2H03	319801731040	100nF 16V 0603
2H04	319801731040	100nF 16V 0603
2H06	319803041090	10pF 20% 16V
2H07	319803041090	10pF 20% 16V
2H08	319801731040	100nF 16V 0603
2H09	319801731040	100nF 16V 0603
2H10	319801731040	100nF 16V 0603
2H11	319801731040	100nF 16V 0603
2H12	319801731040	100nF 16V 0603
2H13	319801731040	100nF 16V 0603
2H14	319801732240	220nF 20% 10V 0603
2H15	319801732240	220nF 20% 10V 0603
2J01	319803041090	10pF 20% 16V
2J02	319801731040	100nF 16V 0603
2J04	319803042290	22uF 20% 16V
2J05	319803041010	1005F 20% 16V
2J06	319801731040	100nF 16V 0603
2J62	319801636890	CER1 0603 NP0 50V 68P
2J63	319801631810	180pF 10% 50V 0603
2J66	319801631810	180pF 10% 50V 0603
2J67	319801636890	CER1 0603 NP0 50V 68P
2J69	319801631810	180pF 10% 50V 0603
2J70	319801636890	CER1 0603 NP0 50V 68P
2J72	319801631810	180pF 10% 50V 0603
2J73	319801636890	CER1 0603 NP0 50V 68P
2K00	319801731040	100nF 16V 0603
2K01	319801731040	100nF 16V 0603
2K02	319801731040	100nF 16V 0603
2K03	319801731040	100nF 16V 0603
2K04	319801731040	100nF 16V 0603
2K05	319801731040	100nF 16V 0603
2K06	319803041090	10pF 20% 16V
2K07	319803041090	10pF 20% 16V
2K08	319801731040	100nF 16V 0603
2K09	319801731040	100nF 16V 0603
2K10	319801731040	100nF 16V 0603
2K11	319803041090	10pF 20% 16V
2K12	319801731040	100nF 16V 0603
2K13	319803041090	10pF 20% 16V
2K14	319801731020	1nF 50V 0603
2K15	319801631010	100pF 10% 50V 0603
2K16	319801734730	47nF 10% 16V 0603
2K17	319801734730	47nF 10% 16V 0603
2L24	319801732240	220nF 20% 10V 0603
2L25	319801732240	220nF 20% 10V 0603
2M01	202055200291	10uF 20% 6.3V 0603
2M02	202055200291	10uF 20% 6.3V 0603
2M03	319801731040	100nF 16V 0603
2M04	319801731040	100nF 16V 0603
2M05	319801731040	100nF 16V 0603
2M06	319801731040	100nF 16V 0603
2M07	202055200291	10uF 20% 6.3V 0603
2M08	202055200291	10uF 20% 6.3V 0603
2M09	319801731040	100nF 16V 0603
2M10	319801731040	100nF 16V 0603
2M11	319803041010	1005F 20% 16V
2M12	319801731040	100nF 16V 0603
2M15	202055200291	10uF 20% 6.3V 0603
2M16	319801731040	100nF 16V 0603
2M17	319801731040	100nF 16V 0603
2M19	319801731040	100nF 16V 0603
2M20	319801731040	100nF 16V 0603
2M21	319801731040	100nF 16V 0603
2N03	319803024790	47uF 20% 6.3V
2N04	319801731040	100nF 16V 0603

Item	Philips 12NC	Description
2N05	319801731040	100nF 16V 0603
2N06	319803024790	47uF 20% 6.3V
2N07	319801731030	10nF 20% 50V 0603
2N08	319801731030	10nF 20% 50V 0603
2N09	202055200291	10uF 20% 6.3V 0603
2N10	202055200291	10uF 20% 6.3V 0603
2N11	319803024790	47uF 20% 6.3V
2N12	319801731040	100nF 16V 0603
2N13	319801631890	18pF 1% 50V 0603
2N14	319801631890	18pF 1% 50V 0603
2N15	319801631020	1nF 25V 0603
2N16	319801731040	100nF 16V 0603
2N17	319802341040	100nF 10% 100V 0603
2N18	319801731020	1nF 50V 0603
2N20	319802341040	100nF 10% 100V 0603
2N25	319801631020	1nF 25V 0603
2N26	319801731020	1nF 50V 0603
2N27	319802341040	100nF 10% 100V 0603
2N28	319801731020	1nF 50V 0603
2N29	319801731020	1nF 50V 0603
2N30	319802341040	100nF 10% 100V 0603
2N31	319801731020	1nF 50V 0603
2N32	319801731020	1nF 50V 0603
2N33	319802341040	100nF 10% 100V 0603
2N34	319801731020	1nF 50V 0603
2N35	319802341040	100nF 10% 100V 0603
2N36	319801731040	100nF 16V 0603
2N37	319802341040	100nF 10% 100V 0603
2N38	319801731020	1nF 50V 0603
2N39	319801731020	1nF 50V 0603
2N40	319802341040	100nF 10% 100V 0603
2N41	319801731020	1nF 50V 0603
2N42	319801731020	1nF 50V 0603
2N43	319801731020	1nF 50V 0603
2N44	319801731040	100nF 16V 0603
2N45	319801731020	1nF 50V 0603
2N46	319801731020	1nF 50V 0603
2N47	319801731040	100nF 16V 0603
2N48	319801731020	1nF 50V 0603
2N49	319801631020	1nF 25V 0603
2N50	319802341040	100nF 10% 100V 0603
2N51	319801731020	1nF 50V 0603
2N52	319801731020	1nF 50V 0603
2N53	319801731040	100nF 16V 0603
2N54	319801631020	1nF 25V 0603
2N55	319801731020	1nF 50V 0603
2N56	319802341040	100nF 10% 100V 0603
2N58	319801731020	1nF 50V 0603
2N59	319801731020	1nF 50V 0603
2N60	319801731020	1nF 50V 0603
2N61	319801731020	1nF 50V 0603
2N62	319801731020	1nF 50V 0603
2N63	319801731020	1nF 50V 0603
2N64	319802341040	100nF 10% 100V 0603
2N66	319801731020	1nF 50V 0603
2N67	319801731040	100nF 16V 0603
2P07	319801731040	100nF 16V 0603
2P28	202055200211	22uF 10% 16V 1210
2P29	202055200211	22uF 10% 16V 1210
2P30	202055200211	22uF 10% 16V 1210
2P31	202055200169	1uF 25V Y5V 0603
2P32	319801733320	3.3nF 50V 0603
2P33	319801733320	3.3nF 50V 0603
2P34	202055200211	22uF 10% 16V 1210
2P35	319801731020	1nF 50V 0603
2P36	319801731040	100nF 16V 0603
2P37	319801733320	3.3nF 50V 0603
2P38	319801731020	1nF 50V 0603
2P39	319801731040	100nF 16V 0603
2P40	319801731040	100nF 16V 0603
2P41	319801731040	100nF 16V 0603
2P42	319801731040	100nF 16V 0603
2P43	319801733320	3.3nF 50V 0603
2P46	319803011010	100uF 20% 4V

Item	Philips 12NC	Description
2P48	319801631010	100pF 10% 50V 0603
2P49	319801631010	100pF 10% 50V 0603
2P52	319801731020	1nF 50V 0603
2P53	319801731020	1nF 50V 0603
2P54	319801731040	100nF 16V 0603
2P55	319803011010	100uF 20% 4V
2P56	319803011010	100uF 20% 4V
2P59	319803011010	100uF 20% 4V
2P61	202055200211	22uF 10% 16V 1210
2P68	319803011010	100uF 20% 4V
2P72	319803011010	100uF 20% 4V
2P73	319801732230	22nF 20% 25V 0603
2P78	202055200169	1uF 25V Y5V 0603
2R10	202055296448	1uF 10% 16V 0805
2R11	319803044790	47pF 20% 16V SMD
2R12	319801731040	100nF 16V 0603
3A01	212010894133	10 Ohm 5% 1206
3A02	212010894133	10 Ohm 5% 1206
3A03	319802131030	10k Ohm 5% 0.062W 0603
3A04	319802131230	12k Ohm 5% 0.062W 0603
3A05	232276260229	22 Ohm 5% 2512
3A06	319802131030	10k Ohm 5% 0.062W 0603
3A07	319802131030	10k Ohm 5% 0.062W 0603
3A08	319802131230	12k Ohm 5% 0.062W 0603
3A09	319802131090	TDA8932T/N1 IC
3A11	319802131030	10k Ohm 5% 0.062W 0603
3A12	319802131050	1M Ohm 5% 0603
3A13	319802133930	39k Ohm 5% 0.062W 0605
3A14	232276260229	22 Ohm 5% 2512
3A15	319802131050	1M Ohm 5% 0603
3A17	319802131090	TDA8932T/N1 IC
3A19	319802131030	10k Ohm 5% 0.062W 0603
3A26	319802134720	4.7k Ohm 5% 0603
3A27	319802132240	220k Ohm 5% 0603
3A28	319802132240	220k Ohm 5% 0603
3A29	319802134730	47k Ohm 5% 0603
3A30	319802134730	47k Ohm 5% 0603
3A31	319802131030	10k Ohm 5% 0.062W 0603
3B12	232270461502	1k5 1% 0603
3B17	319802136820	6.8k Ohm 5% 0603
3B18	319802136820	6.8k Ohm 5% 0603
3B19	319802136820	6.8k Ohm 5% 0603
3B65	319802134720	4.7k Ohm 5% 0603
3B66	232270461002	1k Ohm 1% 0603
3B68	319802131010	100 Ohm 5% 0.062W 0603
3C01	319802131050	1M Ohm 5% 0603
3C02	319802133390	33 Ohm 5% 0.062W 0603
3C03	319803111010	4*100 Ohm 5% 1206
3C04	319803111010	4*100 Ohm 5% 1206
3C05	319803111010	4*100 Ohm 5% 1206
3C06	319803111010	4*100 Ohm 5% 1206
3C08	319802131010	100 Ohm 5% 0.062W 0603
3C09	319802131010	100 Ohm 5% 0.062W 0603
3C10	319802132290	22 Ohm 5% 0603
3C19	232270464701	470 Ohm 1% 0603
3C20	319802131020	1k Ohm 5% 0.062W 0603
3C22	319802134720	4.7k Ohm 5% 0603
3C23	319802132210	220 Ohm 5% 0603
3C24	319802131010	100 Ohm 5% 0.062W 0603
3C25	319802131030	10k Ohm 5% 0.062W 0603
3C40	319802134720	4.7k Ohm 5% 0603
3C41	319802134720	4.7k Ohm 5% 0603
3C42	319802134720	4.7k Ohm 5% 0603
3D01	319803112290	4*22 Ohm 5% 1206
3D02	319803112290	4*22 Ohm 5% 1206
3D05	319803112290	4*22 Ohm 5% 1206
3D06	319803112290	4*22 Ohm 5% 1206
3D09	319802131590	15 Ohm 5% 0.062W 0603
3D10	232270465109	51 Ohm 1% 0603
3D11	319802131590	15 Ohm 5% 0.062W 0603
3D14	232270465109	51 Ohm 1% 0603
3D15	319802131020	1k Ohm 5% 0.062W 0603
3D16	319802131020	1k Ohm 5% 0.062W 0603
3D38	319802131590	15 Ohm 5% 0.062W 0603

Item	Philips 12NC	Description
3D40	319802131590	15 Ohm 5% 0.062W 0603
3D43	319803112290	4*22 Ohm 5% 1206
3D44	319803112290	4*22 Ohm 5% 1206
3D47	319803112290	4*22 Ohm 5% 1206
3D48	319803112290	4*22 Ohm 5% 1206
3E02	319802132290	22 Ohm 5% 0603
3E04	319802132290	22 Ohm 5% 0603
3E06	319802134720	4.7k Ohm 5% 0603
3E07	319802190030	Jumper 0603
3F10	319802134710	470 Ohm 5% 0603
3F11	319802136840	680k Ohm 5% 0.062W 0603
3F12	319802133310	330 Ohm 5% 0.062W 0603
3F13	319802132240	220k Ohm 5% 0603
3F14	319802133310	330 Ohm 5% 0.062W 0603
3F15	319802136840	680k Ohm 5% 0.062W 0603
3F16	319802133910	390 Ohm 5% 0.062W 0603
3F17	319802132240	220k Ohm 5% 0603
3F18	319802131030	10k Ohm 5% 0.062W 0603
3F19	319802134720	4.7k Ohm 5% 0603
3F20	319802134720	4.7k Ohm 5% 0603
3F21	319802133390	33 Ohm 5% 0.062W 0603
3F23	319802134720	4.7k Ohm 5% 0603
3F24	319802131040	100k Ohm 5% 0.062W 0603
3F25	319802131040	100k Ohm 5% 0.062W 0603
3F26	319802131020	1k Ohm 5% 0.062W 0603
3F28	319802131040	100k Ohm 5% 0.062W 0603
3F29	319802131040	100k Ohm 5% 0.062W 0603
3F30	319802133390	33 Ohm 5% 0.062W 0603
3F31	319803113390	4*33 Ohm 5% 1206
3F32	319803113390	4*33 Ohm 5% 1206
3F33	319802131030	10k Ohm 5% 0.062W 0603
3F34	319803113390	4*33 Ohm 5% 1206
3F40	319802131010	100 Ohm 5% 0.062W 0603
3F41	319802132720	2.7k Ohm 5% 0603
3F42	319802132720	2.7k Ohm 5% 0603
3F44	319802131010	100 Ohm 5% 0.062W 0603
3F46	319802131010	100 Ohm 5% 0.062W 0603
3F48	319802131010	100 Ohm 5% 0.062W 0603
3G11	319802131030	10k Ohm 5% 0.062W 0603
3G12	319802131030	10k Ohm 5% 0.062W 0603
3G16	319802131030	10k Ohm 5% 0.062W 0603
3G17	319802131030	10k Ohm 5% 0.062W 0603
3G19	319802131030	10k Ohm 5% 0.062W 0603
3G20	319802131030	10k Ohm 5% 0.062W 0603
3G28	319802131030	10k Ohm 5% 0.062W 0603
3G30	319802131030	10k Ohm 5% 0.062W 0603
3G31	319802131030	10k Ohm 5% 0.062W 0603
3G33	319802132290	22 Ohm 5% 0603
3G34	319802132290	22 Ohm 5% 0603
3G35	319802132290	22 Ohm 5% 0603
3G37	319802131030	10k Ohm 5% 0.062W 0603
3G38	319802131030	10k Ohm 5% 0.062W 0603
3G40	232270461202	1.2k Ohm 1%
3G41	319802131030	10k Ohm 5% 0.062W 0603
3G43	319802131010	100 Ohm 5% 0.062W 0603
3G44	319802131010	100 Ohm 5% 0.062W 0603
3G46	319802131010	100 Ohm 5% 0.062W 0603
3G47	319802131010	100 Ohm 5% 0.062W 0603
3G48	319802133390	33 Ohm 5% 0.062W 0603
3G54	319802131030	10k Ohm 5% 0.062W 0603
3G56	319803113390	4*33 Ohm 5% 1206
3G57	319803113390	4*33 Ohm 5% 1206
3G58	319803113390	4*33 Ohm 5% 1206
3G59	319803113390	4*33 Ohm 5% 1206
3G60	319802133390	33 Ohm 5% 0.062W 0603
3G61	319802133390	33 Ohm 5% 0.062W 0603
3G62	319802133390	33 Ohm 5% 0.062W 0603
3G63	319802131030	10k Ohm 5% 0.062W 0603
3H00	319802133320	3.3k Ohm 5% 0.062W 0603
3H05	319802131030	10k Ohm 5% 0.062W 0603
3H09	319802131010	100 Ohm 5% 0.062W 0603
3H10	319802131010	100 Ohm 5% 0.062W 0603
3H11	319802131030	10k Ohm 5% 0.062W 0603
3H12	319802133320	3.3k Ohm 5% 0.062W 0603
3H13	319802133320	3.3k Ohm 5% 0.062W 0603
3H14	212010894132	1 Ohm 1206
3J01	319802132230	22k Ohm 5% 0603
3J02	319802131230	12k Ohm 5% 0.062W 0603
3J03	319802131010	100 Ohm 5% 0.062W 0603
3J59	319802131810	180 Ohm 5% 0.062W 0603
3J60	319802134790	47 Ohm 5% 0603
3J61	319802131810	180 Ohm 5% 0.062W 0603
3J62	319802134790	47 Ohm 5% 0603
3J63	319802131810	180 Ohm 5% 0.062W 0603
3J64	319802134790	47 Ohm 5% 0603
3J65	319802131810	180 Ohm 5% 0.062W 0603
3J66	319802134790	47 Ohm 5% 0603
3K00	319802131010	100 Ohm 5% 0.062W 0603
3K01	319802131010	100 Ohm 5% 0.062W 0603
3K02	319803113390	4*33 Ohm 5% 1206
3K03	319803113390	4*33 Ohm 5% 1206
3K04	319802131030	10k Ohm 5% 0.062W 0603
3K05	319803113390	4*33 Ohm 5% 1206
3K06	319802131030	10k Ohm 5% 0.062W 0603
3K07	319802131030	10k Ohm 5% 0.062W 0603
3K08	319802131030	10k Ohm 5% 0.062W 0603
3K09	319802131030	10k Ohm 5% 0.062W 0603
3K10	319802131030	10k Ohm 5% 0.062W 0603
3K11	319802131030	10k Ohm 5% 0.062W 0603
3K12	319802131030	10k Ohm 5% 0.062W 0603
3K13	232270462002	2k Ohm 1% 0603
3K15	319802131030	10k Ohm 5% 0.062W 0603
3K16	319802131030	10k Ohm 5% 0.062W 0603
3K17	319802131030	10k Ohm 5% 0.062W 0603
3K18	319802131030	10k Ohm 5% 0.062W 0603
3K19	319802131030	10k Ohm 5% 0.062W 0603
3K20	319802131030	10k Ohm 5% 0.062W 0603
3K21	319802131030	10k Ohm 5% 0.062W 0603
3K22	319802131030	10k Ohm 5% 0.062W 0603
3K23	319803113390	4*33 Ohm 5% 1206
3K24	319803113390	4*33 Ohm 5% 1206
3K25	319802133390	33 Ohm 5% 0.062W 0603
3K26	319802133390	33 Ohm 5% 0.062W 0603
3K27	319802134790	47 Ohm 5% 0603
3K28	319802134790	47 Ohm 5% 0603
3K29	319802134790	47 Ohm 5% 0603
3K30	319802134790	47 Ohm 5% 0603
3K31	319802134790	47 Ohm 5% 0603
3K32	319802134790	47 Ohm 5% 0603
3K33	319802134790	47 Ohm 5% 0603
3K34	319803114790	4*47 Ohm 5% 1206
3K38	319802134790	47 Ohm 5% 0603
3K39	319802134790	47 Ohm 5% 0603
3K40	319802134790	47 Ohm 5% 0603
3K41	319802134790	47 Ohm 5% 0603
3K42	319802134790	47 Ohm 5% 0603
3K43	319802134790	47 Ohm 5% 0603
3K44	319802134790	47 Ohm 5% 0603
3K45	319802134790	47 Ohm 5% 0603
3K46	319802134790	47 Ohm 5% 0603
3K47	319802134790	47 Ohm 5% 0603
3K48	319802134790	47 Ohm 5% 0603
3K49	319802133390	33 Ohm 5% 0.062W 0603
3K50	319802133390	33 Ohm 5% 0.062W 0603
3K51	319802134720	4.7k Ohm 5% 0603
3K52	319802134720	4.7k Ohm 5% 0603
3L01	319802134720	4.7k Ohm 5% 0603
3L02	319802131010	100 Ohm 5% 0.062W 0603
3L03	319802131030	10k Ohm 5% 0.062W 0603
3L04	319802131520	1.5k Ohm 5% 0.062W 0603
3L05	319802131010	100 Ohm 5% 0.062W 0603
3L10	212010894132	1 Ohm 1206
3L11	319802131010	100 Ohm 5% 0.062W 0603
3L15	319802133310	330 Ohm 5% 0.062W 0603
3L16	319802131020	1k Ohm 5% 0.062W 0603
3L17	319802131010	100 Ohm 5% 0.062W 0603
3L22	319802190030	Jumper 0603
3L23	319802190030	Jumper 0603
3L28	319802134720	4.7k Ohm 5% 0603
3L53	319802131010	100 Ohm 5% 0.062W 0603
3L54	319802131010	100 Ohm 5% 0.062W 0603
3L55	319802131030	10k Ohm 5% 0.062W 0603
3L56	319802131010	100 Ohm 5% 0.062W 0603
3L57	319802131010	100 Ohm 5% 0.062W 0603
3L58	319802131010	100 Ohm 5% 0.062W 0603
3L59	319802131010	100 Ohm 5% 0.062W 0603
3L60	319802131010	100 Ohm 5% 0.062W 0603
3L61	319802131010	100 Ohm 5% 0.062W 0603
3L62	319802131010	100 Ohm 5% 0.062W 0603
3L63	319802131010	100 Ohm 5% 0.062W 0603
3L67	319802131010	100 Ohm 5% 0.062W 0603
3L71	319802132290	22 Ohm 5% 0603
3L72	319802134730	47k Ohm 5% 0603
3L73	319802134730	47k Ohm 5% 0603
3L75	319802132220	2.2k Ohm 5% 0603
3L76	319802132220	2.2k Ohm 5% 0603
3L79	319802131030	10k Ohm 5% 0.062W 0603
3L86	319802132230	22k Ohm 5% 0603
3L94	319802134720	4.7k Ohm 5% 0603
3L95	319802134720	4.7k Ohm 5% 0603
3L96	319802131040	100k Ohm 5% 0.062W 0603
3M07	319802131010	100 Ohm 5% 0.062W 0603
3M08	319802132220	2.2k Ohm 5% 0603
3M09	319802134720	4.7k Ohm 5% 0603
3M10	319802134710	470 Ohm 5% 0603
3M13	319802131010	100 Ohm 5% 0.062W 0603
3M14	319802131010	100 Ohm 5% 0.062W 0603
3M15	319802131010	100 Ohm 5% 0.062W 0603
3M20	319802131010	100 Ohm 5% 0.062W 0603
3M21	319802131010	100 Ohm 5% 0.062W 0603
3M31	319802132220	2.2k Ohm 5% 0603
3M32	319802138230	82k Ohm 5% 0.062W 0603
3M34	319802134720	4.7k Ohm 5% 0603
3M37	319802134730	47k Ohm 5% 0603
3M38	319802134730	47k Ohm 5% 0603
3M39	319802134730	47k Ohm 5% 0603
3M40	319802134730	47k Ohm 5% 0603
3N01	319802133390	33 Ohm 5% 0.062W 0603
3N02	319803113390	4*33 Ohm 5% 1206
3N03	319802133390	33 Ohm 5% 0.062W 0603
3N04	319803113390	4*33 Ohm 5% 1206
3N05	319802133390	33 Ohm 5% 0.062W 0603
3N06	319803113390	4*33 Ohm 5% 1206
3N07	319802133390	33 Ohm 5% 0.062W 0603
3N08	319803113390	4*33 Ohm 5% 1206
3N09	319802133390	33 Ohm 5% 0.062W 0603
3N10	319802133390	33 Ohm 5% 0.062W 0603
3N11	319803113390	4*33 Ohm 5% 1206
3N12	319803113390	4*33 Ohm 5% 1206
3N13	319802133390	33 Ohm 5% 0.062W 0603
3N14	319802133390	33 Ohm 5% 0.062W 0603
3N15	319802133390	33 Ohm 5% 0.062W 0603
3N16	319802133390	33 Ohm 5% 0.062W 0603
3N18	319803113390	4*33 Ohm 5% 1206
3N22	319802133390	33 Ohm 5% 0.062W 0603
3N23	212010894132	1 Ohm 1206
3N24	319802131050	1M Ohm 5% 0603
3N25	319802132210	220 Ohm 5% 0603
3N26	319802132210	220 Ohm 5% 0603
3N27	212010894132	1 Ohm 1206
3N33	319802134720	4.7k Ohm 5% 0603
3N34	319802134720	4.7k Ohm 5% 0603
3N35	319802134720	4.7k Ohm 5% 0603
3N36	319802134720	4.7k Ohm 5% 0603
3N37	319802134720	4.7k Ohm 5% 0603
3N38	319802134720	4.7k Ohm 5% 0603
3N39	319802131010	100 Ohm 5% 0.062W 0603
3N40	319802131010	100 Ohm 5% 0.062W 0603
3P13	319802131090	TDA8932T/N1 IC
3P20	212010894133	10 Ohm 5% 1206
3P23	319802131090	TDA8932T/N1 IC
3P25	319802131090	TDA8932T/N1 IC

Item	Philips 12NC	Description
3P26	319802132280	2R2 5% 0603
3P32	319802132280	2R2 5% 0603
3P34	319802133320	3.3k Ohm 5% 0.062W 0603
3P37	319802136820	6.8k Ohm 5% 0603
3P38	319802131020	1k Ohm 5% 0.062W 0603
3P40	319802133930	39k Ohm 5% 0.062W 0605
3P41	319802136820	6.8k Ohm 5% 0603
3P45	319802136820	6.8k Ohm 5% 0603
3P47	319802136890	68 Ohm 5% 0.062W 0603
3P48	319802136890	68 Ohm 5% 0.062W 0603
3P49	319802132210	220 Ohm 5% 0603
3P50	319802131020	1k Ohm 5% 0.062W 0603
3P51	232270461801	180 Ohm 1% 0603
3P53	232270466801	680 Ohm 1% 0603
3P54	319802131030	10k Ohm 5% 0.062W 0603
3P56	232270464701	470 Ohm 1% 0603
3P59	232270464701	470 Ohm 1% 0603
3P61	319802131090	TDA8932T/N1 IC
3P64	232270466801	680 Ohm 1% 0603
3P68	319802136820	6.8k Ohm 5% 0603
3P69	319802136820	6.8k Ohm 5% 0603
3P70	319802133320	3.3k Ohm 5% 0.062W 0603
3P71	319802136820	6.8k Ohm 5% 0603
3P72	319802136820	6.8k Ohm 5% 0603
3P74	319802136820	6.8k Ohm 5% 0603
3P77	232270461002	1k Ohm 1% 0603
3P78	319802131020	1k Ohm 5% 0.062W 0603
3R10	319802134730	47k Ohm 5% 0603
3R12	319802134790	47 Ohm 5% 0603
3R13	319802134730	47k Ohm 5% 0603
3R25	319802131010	100 Ohm 5% 0.062W 0603
3R26	319802131010	100 Ohm 5% 0.062W 0603
4B04	319802190030	Jumper 0603
4B05	319802190030	Jumper 0603
4B06	319802190030	Jumper 0603
4B07	319802190030	Jumper 0603
4C07	319802190030	Jumper 0603
4F12	319802190030	Jumper 0603
4G01	319802190030	Jumper 0603
4G02	319802190030	Jumper 0603
4G03	319802190030	Jumper 0603
4G04	319802190030	Jumper 0603
4G09	319802190030	Jumper 0603
4G31	319802190030	Jumper 0603
4H00	319802190030	Jumper 0603
4H02	319802190030	Jumper 0603
4H04	319802190030	Jumper 0603
4H05	319802190030	Jumper 0603
4H12	319802190030	Jumper 0603
4J14	319802190030	Jumper 0603
4J15	319802190030	Jumper 0603
4L20	319802190030	Jumper 0603
4L24	319802190030	Jumper 0603
4L25	319802190030	Jumper 0603
4L26	319802190030	Jumper 0603
4M01	319802190030	Jumper 0603
4M04	319802190030	Jumper 0603
4M05	319802190030	Jumper 0603
4M07	319802190030	Jumper 0603
4M08	319802190030	Jumper 0603
4M09	319802190030	Jumper 0603
4M11	319802190030	Jumper 0603
4N02	319802190030	Jumper 0603
4N03	319802190030	Jumper 0603
4N04	319802190030	Jumper 0603
4N05	319802190030	Jumper 0603
4N06	319802190030	Jumper 0603
4N07	319802190030	Jumper 0603
4N08	319802190030	Jumper 0603
4P01	319802190030	Jumper 0603
4P02	319802190030	Jumper 0603
4R02	319802190030	Jumper 0603
4R03	319802190030	Jumper 0603
4R04	319802190030	Jumper 0603
4R05	319802190030	Jumper 0603
4R06	319802190030	Jumper 0603
4R07	319802190030	Jumper 0603
4R08	319802190030	Jumper 0603
5A03	242253601564	22uF 20%
5A04	242253601564	22uF 20%
5A05	242254942958	Bead 0805 30R at 100MHz
5A06	242254942958	Bead 0805 30R at 100MHz
5A07	242254901582	Bead 0603 33R at 100MHz
5A08	242253594134	105H 20% 0805
5A09	242253594134	105H 20% 0805
5B01	242253594134	105H 20% 0805
5B05	242253601564	22uF 20%
5B08	242253600779	105uH 20%
5C06	242254901582	Bead 0603 33R at 100MHz
5C07	242254901582	Bead 0603 33R at 100MHz
5C08	242254901582	Bead 0603 33R at 100MHz
5D03	242254901582	Bead 0603 33R at 100MHz
5E03	242254901582	Bead 0603 33R at 100MHz
5E04	242254901582	Bead 0603 33R at 100MHz
5E05	242254901582	Bead 0603 33R at 100MHz
5E06	242254901582	Bead 0603 33R at 100MHz
5E07	242254901582	Bead 0603 33R at 100MHz
5E08	242254901582	Bead 0603 33R at 100MHz
5E09	242254901582	Bead 0603 33R at 100MHz
5E10	242254901582	Bead 0603 33R at 100MHz
5E11	242254901582	Bead 0603 33R at 100MHz
5E12	242254901582	Bead 0603 33R at 100MHz
5E13	242254901582	Bead 0603 33R at 100MHz
5E14	242254901582	Bead 0603 33R at 100MHz
5E16	242254901582	Bead 0603 33R at 100MHz
5E17	242254901582	Bead 0603 33R at 100MHz
5F10	242254942979	Ind. 100MHz 60Ohm 0603
5F11	242254942979	Ind. 100MHz 60Ohm 0603
5G04	242254942979	Ind. 100MHz 60Ohm 0603
5G05	242254901582	Bead 0603 33R at 100MHz
5G06	242254901582	Bead 0603 33R at 100MHz
5G07	242254901582	Bead 0603 33R at 100MHz
5H01	242254942979	Ind. 100MHz 60Ohm 0603
5H02	242254942979	Ind. 100MHz 60Ohm 0603
5H03	242254942979	Ind. 100MHz 60Ohm 0603
5J01	242254942979	Ind. 100MHz 60Ohm 0603
5J52	319801853380	3.35H 10% 0603
5J53	319801853380	3.35H 10% 0603
5J54	319801853380	3.35H 10% 0603
5J55	319801853380	3.35H 10% 0603
5K01	242254942979	Ind. 100MHz 60Ohm 0603
5K02	242254942979	Ind. 100MHz 60Ohm 0603
5K03	242254942979	Ind. 100MHz 60Ohm 0603
5K04	242254942979	Ind. 100MHz 60Ohm 0603
5K05	242254942979	Ind. 100MHz 60Ohm 0603
5M01	242254901582	Bead 0603 33R at 100MHz
5M02	242254901582	Bead 0603 33R at 100MHz
5M03	242254901582	Bead 0603 33R at 100MHz
5N01	242254942896	Ind. 120 Ohm 100MHz
5N02	242254942896	Ind. 120 Ohm 100MHz
5N03	242254942896	Ind. 120 Ohm 100MHz
5N04	242254942896	Ind. 120 Ohm 100MHz
5N05	242254942896	Ind. 120 Ohm 100MHz
5N06	242254942896	Ind. 120 Ohm 100MHz
5N07	242254942896	Ind. 120 Ohm 100MHz
5N08	242254942896	Ind. 120 Ohm 100MHz
5N09	242254942896	Ind. 120 Ohm 100MHz
5P01	242253600671	10uH 20%
5P02	242253594134	105H 20% 0805
5P09	242253600671	10uH 20%
5R02	242254901582	Bead 0603 33R at 100MHz
5R03	242254901582	Bead 0603 33R at 100MHz
6B30	319801010720	SS24
6J03	319801010630	BAS316
6J14	934058419115	PESD3V3L1BA
6J15	934058419115	PESD3V3L1BA
6M08	319801010660	BAT54
6P05	319802056880	BZX384-C6V8
6P12	319802056880	BZX384-C6V8
6P13	319801010630	BAS316
6P14	319801010630	BAS316
6P15	319802051890	BZX384-C18
6R02	319802055680	BZX384-C5V6
7A01	935279642118	TDA8932T/N1
7A05	319801042320	BC857BW
7A06	319801042310	BC847BW
7A07	319801042310	BC847BW
7B01	932220234668	L5973D
7B02	932211988668	LD1117DT33C
7B12	932221214668	SI4423DY
7C01	932224957671	SVP WX68-7568-LF
7C02	319801042310	BC847BW
7C04	319801042310	BC847BW
7D01	932225195671	K4D261638K-LC40
7D02	932225195671	K4D261638K-LC40
7F01	935273245518	TDA10046AHT/C1
7F02	935263016165	74AHC1GU04GW
7F03	935263016165	74AHC1GU04GW
7F04	319801070580	LM393D
7G00	935277355557	PNX8314HS/C102
7H00		For SW see item 0851
7H02	932224127668	K4S281632I-UC60
7H03		For SW see item 0852
7J04	932221400668	SI2301BDS-E3
7J05	319801044110	PDTC114ET
7K00	932222791671	STV0700L
7K01	935219010118	74LVC573ADB
7K02	935219010118	74LVC573ADB
7K03	319801070650	74LVC245APW
7K04	272217100207	Xtal 27MHz 50P
7K05	932217513668	ST890CD
7L10	319801042310	BC847BW
7L23		For SW see item 0816
7M01	932216761668	LF18CD
7M04	319801042310	BC847BW
7M07	932225506671	SII9185ACTU
7M09	319801042310	BC847BW
7N01	932225010671	SII9125CTU
7N07	935266839118	UDA1334ATS/N2
7P05	319801044340	BC817-25W
7P06	932216070668	SI4936ADY-E3
7P07	932216070668	SI4936ADY-E3
7P08	932221350685	TS431AIL
7P09	934057587118	PHD38N02LT
7P11	932220746668	NCP5422AD
7R05	932220471668	SI4835BDY
7R07	319801044110	PDTC114ET

11. Revision List

Manual xxxx xxx xxxx.0

- First release.

Manual xxxx xxx xxxx.1

- **Chapter 6:** Block diagrams added.

Manual xxxx xxx xxxx.2

- **Chapter 8:** Tint settings 52" sets added.