FTL2.1E & FTL2.2E

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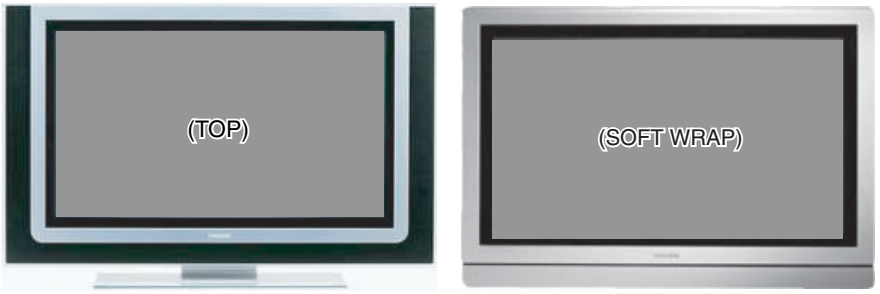

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ServiceManual

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PHILIPS

1. Technical Specifications, Connections, and Chassis Overview

Index of this chapter:

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

1.1 Technical Specifications

1.1.1 Vision

Display type	:	LCD, VA
Screen size	:	32" (82 cm), 16:9
	:	37" (94 cm), 16:9
	:	42" (107 cm), 16:9
Resolution (HxV pixels)	:	1366(*3)x768 WXGA
Contrast ratio	:	800:1 (32-inch)
	:	800:1 (37-inch)
	:	500:1 (42-inch)
Light output (cd/m^2)	:	450 (32-inch)
	:	450 (37-inch)
	:	400 (42-inch)
LCD response time (ms)	:	12
Viewing angle (HxV degrees)	:	170 (32-inch)
	:	176 (37-inch)
	:	176 (42-inch)
Tuning system	:	PLL
Colour systems	:	PAL B/G, D/K, I
	:	SECAM B/G, D/K, L/L'
Supported computer formats	:	VGA (640x480)
	:	SVGA (800x600)
	:	XVGA (1024x768)
	:	WXGA (1280x768)
Supported video formats	:	640x480i - 1fH
	:	720x576i - 1fH
	:	640x480p - 2fH
	:	720x576p - 2fH
	:	1920x1080i - 2fH
	:	1280x720p - 3fH
AV (playback only)	:	NTSC, PAL, SECAM
Channel selections	:	100 presets
	:	UVSH

1.1.2 Sound

Sound systems	:	AV stereo,
	:	FM/FM B/G
	:	NICAM B/G, D/K, I
Maximum power (W_{RMS})	:	2 x 15 (int.)

1.1.3 Miscellaneous

Mains voltage (V_{AC})	:	220 - 240
Mains frequency	:	50 / 60 Hz
Ambient temperature (°C)	:	+5 to +40
Maximum humidity (R.H>)	:	90%
Power consumption		
- Normal operation (W)	:	185 (32-inch)
	:	200 (37-inch)
	:	240 (42-inch)
- Stand-by (W)	:	< 2

1.2 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, Ye= Yellow.

1.2.1 Side I/O

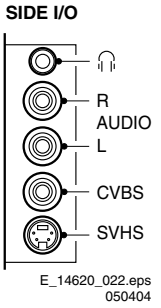

Figure 1-1 Side I/O connections

Headphone (Output)

- Headphone	32 - 600 ohm / 10 mW	

Cinch: Video CVBS - In, Audio - In

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

SVHS (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	

1.2.2 Rear Connections

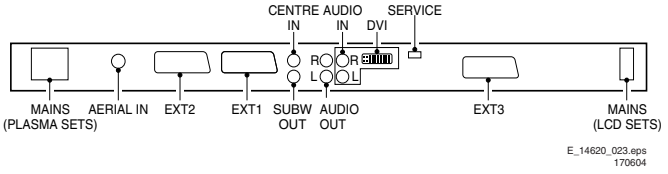

Figure 1-2 Rear connections

Aerial - In

- IEC-type	Coax, 75 ohm

SCART2: Video RGB/YC - In, CVBS - In/Out, Audio - In/Out

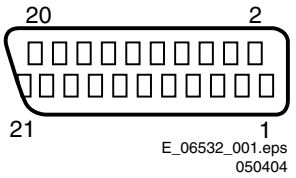

Figure 1-3 SCART connector

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/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	- 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/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	⏚

SCART1: Video RGB - 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	- 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	⏚

Cinch: Sub woofer - Out, Centre - In

Bu	- Centre	0.5 V_{RMS} / 10 kohm	⊖◎
Bk	- Sub woofer	0.5 V_{RMS} / 10 kohm	⊖→◎

Cinch: Audio - Out

Rd	- Audio - R	0.5 V_{RMS} / 10 kohm	⊖→◎
Wh	- Audio - L	0.5 V_{RMS} / 10 kohm	⊖→◎

Cinch: DVI Audio - In

Rd	- Audio - R	0.5 V_{RMS} / 10 kohm	⊖◎
Wh	- Audio - L	0.5 V_{RMS} / 10 kohm	⊖◎

DVI-I: Digital/Analogue Video - In

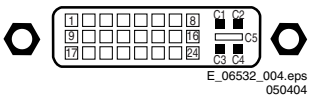

Figure 1-4 DVI-I connector

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

Service connector (ComPair)

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

SCART3: Video CVBS - In, Audio - In

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

1.3 Chassis Overview

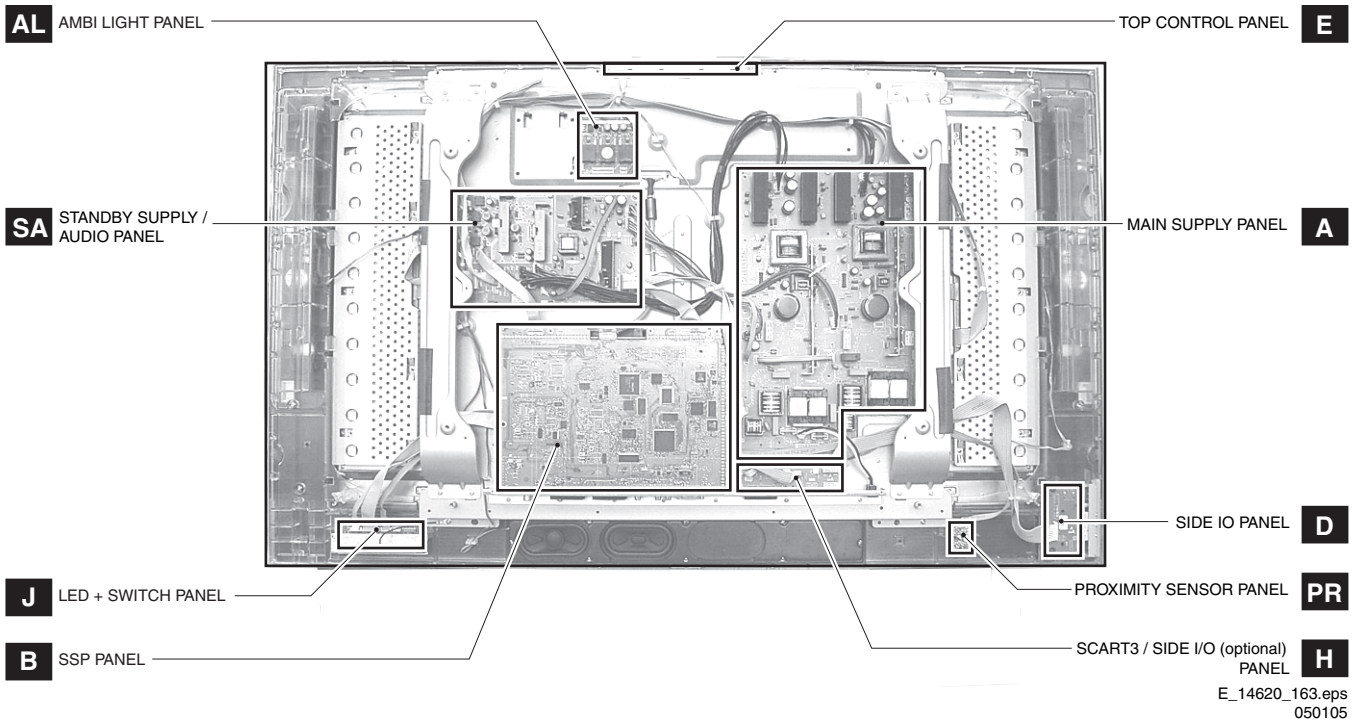

Figure 1-5 PWB locations (FTL2.1 “Top” model)

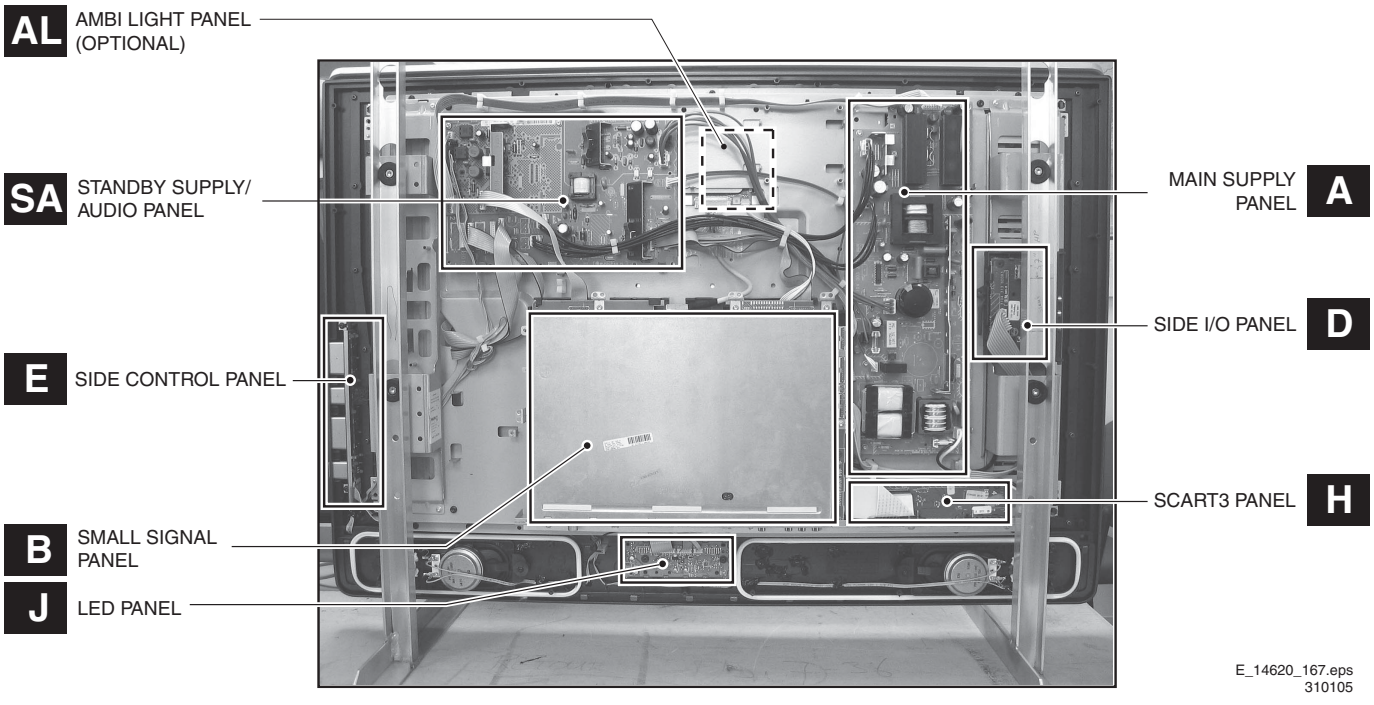

Figure 1-6 PWB locations (FTL2.2 “Wrap” model)

2. Safety Instructions, Warnings, and Notes

Index of this chapter:

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

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 Rework on BGA (Ball Grid Array) ICs

General

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

Device Removal

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

Area Preparation

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

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

More Information
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 “Workshop Information”. Here you will find Information on how to deal with BGA-ICs.

2.3.4 Lead-free Solder

Philips CE is producing lead-free sets (PBF) from 1.1.2005 onwards.

Identification: The bottom line of a type plate gives a 14-digit serial number. Digits 5 and 6 refer to the production year, digits 7 and 8 refer to production week (in example below it is 1991 week 18).

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Figure 2-1 Serial number example

Regardless of the special lead-free logo (which is not always indicated), one must treat all sets from this date onwards according to the rules as described below.

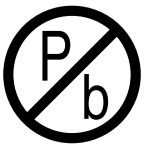

Figure 2-2 Lead-free logo

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 stabilise 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 stabilised 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.
- Use only original spare-parts listed in the Service-Manuals. Not listed standard material (commodities) has to be purchased at external companies.
- Special information for lead-free BGA ICs: these ICs will be delivered in so-called "dry-packaging" to protect the IC against moisture. This packaging may only be opened shortly before it is used (soldered). Otherwise the body of the IC gets "wet" inside and during the heating time the structure of the IC will be destroyed due to high (steam-) pressure inside the body. If the packaging was opened before usage, the IC has to be heated up for some hours (around 90°C) for drying (think of ESD-protection!).
  Do not re-use BGAs at all!
- For sets produced before 1.1.2005, containing leaded soldering tin and components, all needed spare parts will be available till the end of the service period. For the repair of such sets nothing changes.

In case of doubt whether the board is lead-free or not (or with mixed technologies), you can use the following method:

- Always use the highest temperature to solder, when using SAC305 (see also instructions below).
- De-solder thoroughly (clean solder joints to avoid the mixing of two alloys).

Caution: 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 "Workshop information".
For additional questions please contact your local repair help desk.

2.3.5 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:

Notes:

- Figures below can deviate slightly from the actual situation, due to the different set executions.
- Follow the disassemble instructions in described order.
- As this chassis has two different mecanical stylings, the dismantle instructions are splitted in two parts: one for the “Top” version and one for the “Wrap” version.

4.1 Cable Dressing

4.1.1 Chassis

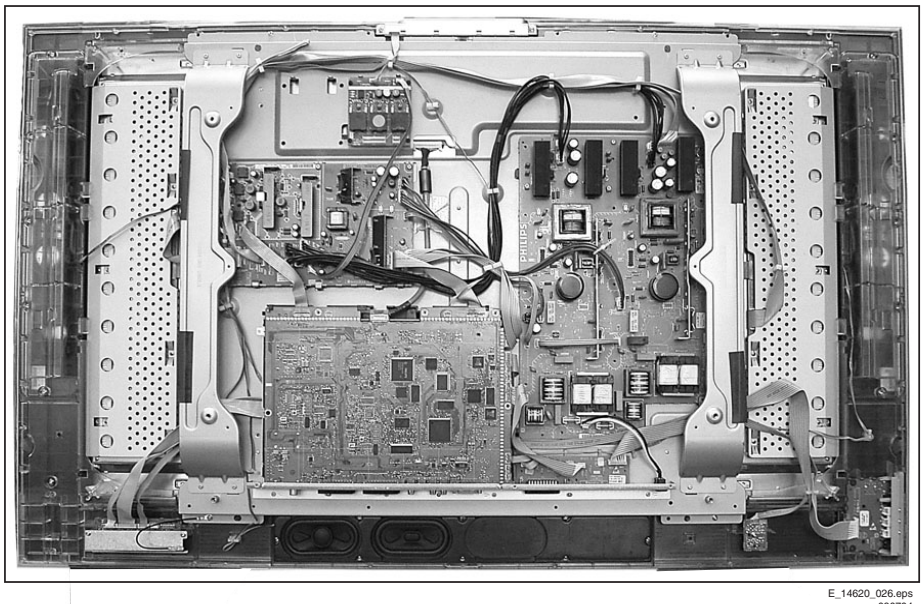

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Figure 4-1 Chassis cable dressing (FTL2.1 “Top” model)

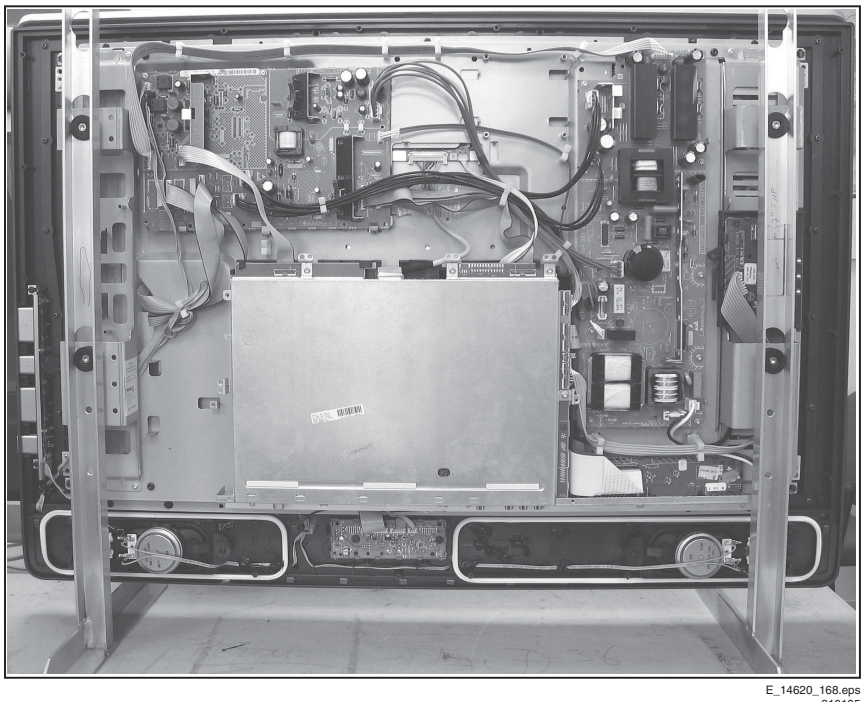

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Figure 4-2 Chassis cable dressing (FTL2.2 “Wrap” model)

4.2 Service Positions

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

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

4.2.1 Foam Bars

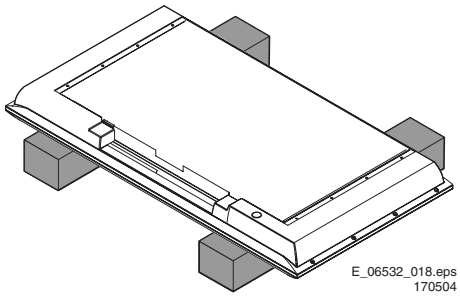

Figure 4-3 Foam bars

The foam bars (order code 3122 785 90580 for two pieces) can be used for all types and sizes of Flat TVs. 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

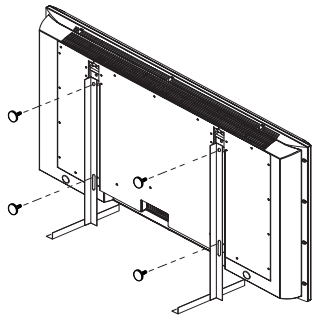

Figure 4-4 Aluminium stands (MkI)

The new MkII aluminium stands (not on drawing) 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 new 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/PWB Removal (for FTL2.1 "Top" sets)

4.3.1 Metal Back Plate

Caution: Disconnect the mains power cord before you remove the metal back plate.

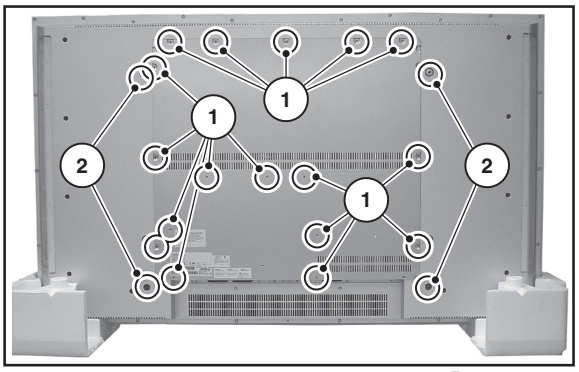

Figure 4-5 Metal back plate

1. Place the TV set upside down on a table top, using the foam bars (see part "Foam Bars").
   Caution: do **not** put pressure on the LCD display, but let the monitor lean on the speakers or the Front cover.
2. Remove all T10 parker screws (1) from the topside of the back plate.
3. Remove all T10 tapping screws (2) from the centre, bottom, and left and right sides of the back plate.
4. Lift the back plate from the set. Make sure that wires and flat foils are not damaged during the back plate removal.

4.3.2 Rear Cover

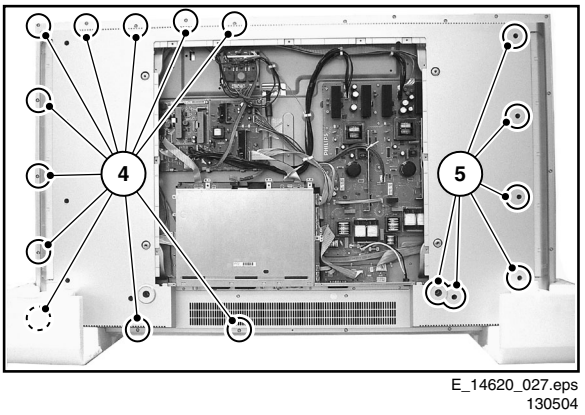

Figure 4-6 Rear cover

1. Disconnect all connectors (3) from the Ambient Light inverter panel.
2. Remove all tapping screws (4) around the edges of the rear cover (some of them are indicated on the figure above).
3. Remove all parker screws (5) from the rear cover (some of them are indicated on the figure above).
4. Lift the rear cover from the set (it hinges at the bottom side).

4.3.3 Ambient Light Panel

1. Remove all mounting screws from the Ambient Light panel.
2. Disconnect all cables from the Ambient Light panel.
3. Take out the Ambient Light panel.

4.3.4 Main Supply Panel

1. Remove all mounting screws from the Main Supply panel.
2. Disconnect all cables from the Main Supply panel.
3. Take out the Main Supply panel (it hinges at the right (speaker) side).

4.3.5 SCART3 Panel

1. Disconnect all cables from the SCART3 panel.
2. Remove the two mounting screws (7) near the SCART3 at the connector plate (see figure "Connector plate").
3. Take out the SCART3 panel.

4.3.6 Stand-by Supply / Audio Panel

1. Disconnect all cables from the Stand-by Supply / Audio panel.
2. Remove all mounting screws from the Stand-by Supply / Audio panel.
3. Take out the Stand-by Supply / Audio panel (it hinges at the bottom side).

4.3.7 Side I/O Panel

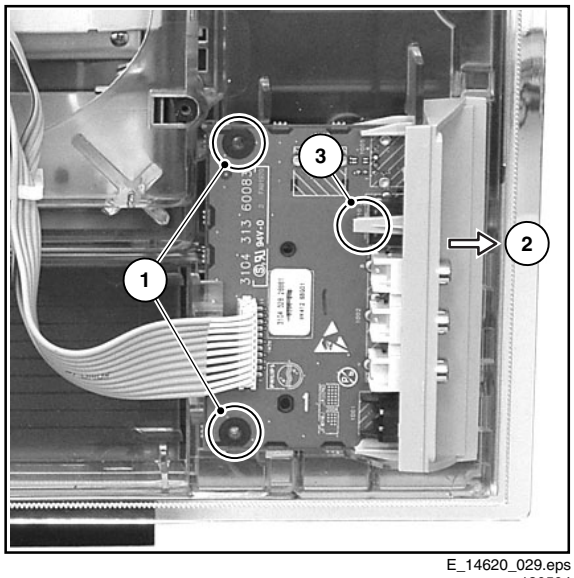

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Figure 4-7 Side I/O Panel

1. Disconnect the cable from the Side I/O panel.
2. Remove the mounting screws (1) if present.
3. Slide the Side I/O bracket to the right (2).
4. Release the clamp (3) and take out the Side I'O panel from its bracket.

4.3.8 Top Control

1. Remove the mounting screws from the Top Control panel bracket.
2. Disconnect the cable.
3. Release the clamps and take out the Top Control panel.

4.3.9 Proximity Panel

1. Remove the mounting screws.
2. Take out the Proximity panel and disconnect the cable.

4.3.10 LED / Switch Panel

1. Disconnect all cables from the LED / Switch panel.
2. Remove the mounting screws from the panel shielding and remove it.
3. Remove the mounting screws from the LED/Switch panel.
4. Take out the LED/Switch panel.

4.3.11 Small Signal Board (SSB)

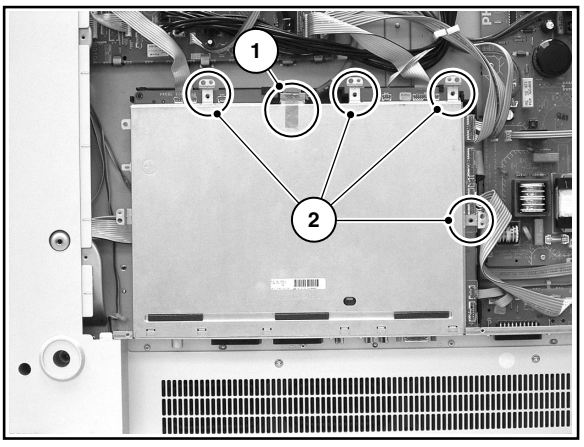

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Figure 4-8 SSB top shielding

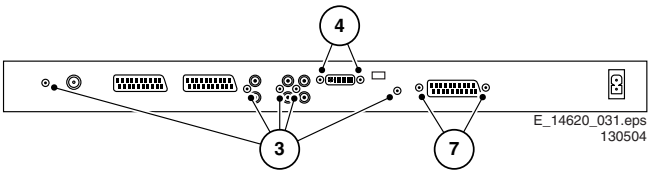

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Figure 4-9 Connector plate

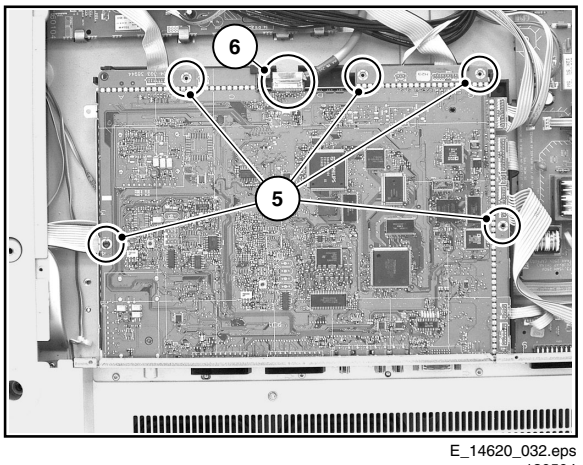

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Figure 4-10 SSB

1. Remove the LVDS fixing tape (1).
2. Remove all fixing screws (2).
3. Lift the shielding at the top. The panel hinges at the SCART side.
   Caution: do **not** damage the EMC shielding foam while you remove the shielding.
4. Remove mounting screws (3) from the connector plate. Use a 5 mm socket screwdriver to remove both DVI connector distance bolts (4).
5. Remove the mounting screws from the SSB (5).
6. Disconnect the LVDS cable (6).
7. Lift the SSB, disconnect all cables, and take out the SSB.

4.3.12 Woofer

1. Remove all mounting screws.
2. Take out the woofer unit together with its cable.
   Caution: the woofer unit must remain airtight.

4.3.13 Speakers

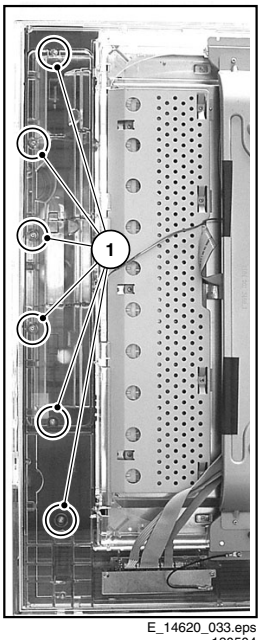

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Figure 4-11 Speaker mounting screws at the rear side

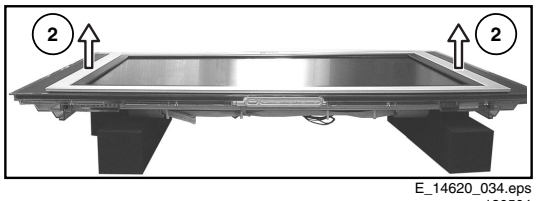

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Figure 4-12 Front cover removal

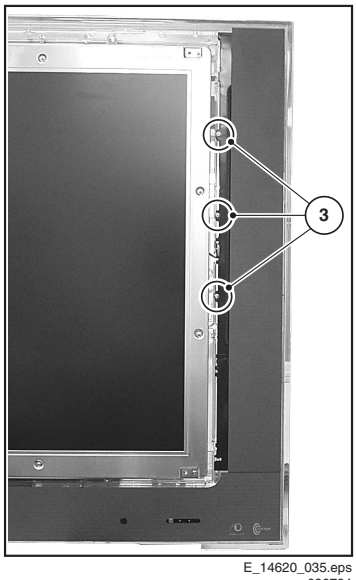

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Figure 4-13 Speaker mounting screws at the front side

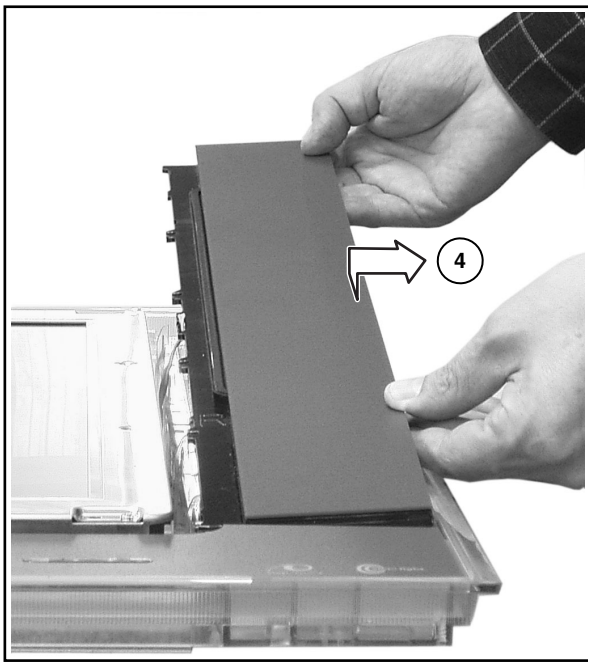

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Figure 4-14 Speaker removal

1. Remove all speakers mounting screws (1) at the rear side of the set (one screw is located under the Side I/O).
2. Flip the set over (be aware that the front cover is loose now), and remover the front cover (2).
3. Remove all speakers mounting screws (3) at the LCD side.
4. Take out the speaker unit (4).

4.3.14 LCD Panel

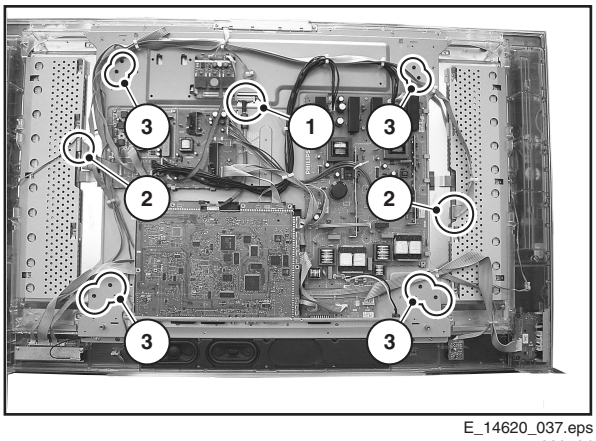

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Figure 4-15 LCD panel (photo: "Top" model)

Caution: Before you start, be sure that the foam bars support the LCD panel border, to prevent the display from falling when its mounting screws are released.

1. Remove the screws from the wall mounting brackets and remove the brackets.
2. Unplug the LVDS connector (1) at the LCD panel.
3. Unplug the backlight connectors (2).
4. Remove all mounting LCD panel screws (3).
5. Lift the plastic frame together with metal frame and PWBs from the LCD panel.

4.3.15 Ambient Lights

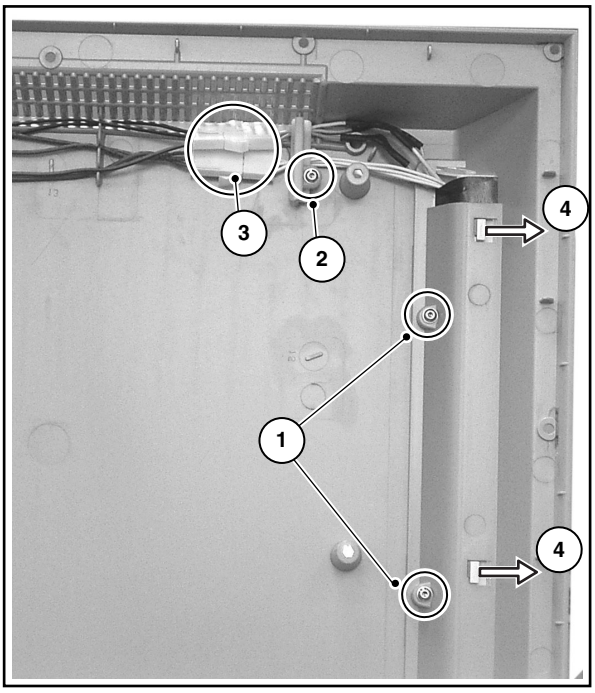

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Figure 4-16 Ambient light

Ambient lights are located in the rear cover of the set.

1. Remove all mounting Ambient lights screws (1) (some of them are shown on the Figure above).
2. Remove the screw from the cable clamp (2).
3. Unplug the cables (3).
4. Shift the Ambient light unit to the side (4) and take out the unit.

4.4 Assy/PWB Removal (for FTL2.2 “Wrap” Sets)

Note: Use figures from “Assy/PWB Removal (for FTL2.1 “Top” Sets)“. Mind you that the different models can deviate slightly from each other w.r.t. the mechanical construction. Where necessary, you will find separate figures for clarification.

4.4.1 Metal Back Plate

Caution: Disconnect the AC Power (mains) cord before you remove the metal back plate.

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

4.4.2 Rear Cover

1. Remove all T10 parker screws (2) around the edges of the rear cover.
2. Lift the rear cover from the set.

4.4.3 Main Supply Panel

1. Disconnect all cables from the Main Supply panel.
2. Remove all T10 mounting screws from the Main Supply panel.
3. Take out the Main Supply panel.

4.4.4 Ambient Light Panel

1. Remove all mounting screws from the Ambient Light panel.
2. Disconnect all cables from the Ambient Light panel.
3. Take out the Ambient Light panel.

4.4.5 SCART3 Panel

1. Disconnect all cables from the SCART3 panel.
2. Remove the two mounting screws (7) near the SCART3 at the connector plate (see figure "Connector plate").
3. Take out the SCART3 panel.

4.4.6 Stand-by Supply/Audio Panel

1. Disconnect all cables from the Stand-by Supply/Audio panel.
2. Remove all T10 mounting screws from the Stand-by Supply/Audio panel.
3. Take out the Stand-by Supply/Audio panel (it hinges at the bottom side).

4.4.7 Side I/O Panel

1. Disconnect the cable(s) from the panel.
2. Remove the T10 mounting screws that hold the assy.
3. Release the clamps and take out the panel from its bracket.

4.4.8 Top/Side Control

1. Disconnect the cable(s) from the panel.
2. Remove the T10 mounting screws that hold the assy.
3. Release the clamps and take out the panel from its bracket.

4.4.9 LED Panel

1. Disconnect the cable(s) from the panel.

2. Remove the T10 mounting screws that hold the panel.
3. Take out the panel.

4.4.10 Speakers

1. After removal of the rear cover, you can access the speakers.
   Note: In the rear cover itself, two additional “passive” speakers are mounted.
2. Be sure that the foam that makes the unit airtight is not damaged. Otherwise, replace it.

4.4.11 SSB

1. Remove the LVDS fixing tape (1).
2. Remove all fixing screws (2).
3. Lift the shielding at the top and shift it upwards. The shielding clamps at the connector side.
   Caution: Be careful not to damage the EMC shielding foam while you remove the shielding.
4. Remove all connector fixation screws from the connector plate.
5. Remove the mounting screws from the SSB (5).
6. Disconnect the LVDS cable (6).
7. Lift the SSB, disconnect all cables, and take out the SSB.

4.4.12 LCD Panel

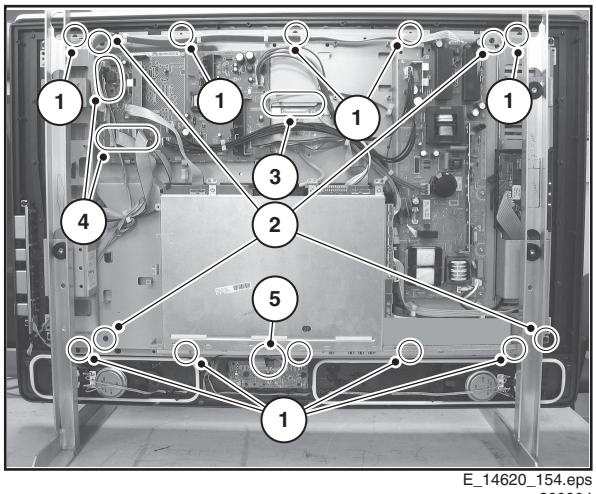

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Figure 4-17 LCD panel (photo: “Wrap” model)

Caution: Before you start, be sure that the foam bars support the LCD panel border, to prevent the display from falling when its mounting screws are released.

1. Remove the T10 screws (1) from the mounting frame.
2. Remove all mounting LCD panel screws (2).
3. **Important:** Unplug the LVDS connector (3) at the LCD panel. **Be careful**, as this is a very fragile connector!
4. Unplug the backlight and loudspeaker connectors (4).
5. Lift the metal frame (together with all PWBs) from the LCD panel. During lift, free the backlight and speaker cables.
6. After removal of the frame, you can lift the LCD display from the set.

4.5 Set Re-assembly

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

Note: While re-assembling, make sure, that all cables are placed and connected in their original position

5. Service Modes, Error Codes, and Fault Finding

Index of this chapter:

5.1 Test Points

The chassis is equipped with test points printed on the circuit board assemblies.

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

5.2 Service Modes

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

There is also the option of using ComPair, a hardware interface between a computer (see requirements below) and the TV chassis. It offers the ability of structured troubleshooting, test pattern generation, error code reading, software version read-out, and software upgrading.
Minimum requirements: a Pentium processor, Windows 95/98, and a CD-ROM drive (see also paragraph “ComPair”).

5.2.1 Service Default Mode (SDM)

Purpose
- To create a pre-defined setting, to get the same measurement results as given in this manual.
- To override SW protections.
- To start the blinking LED procedure.

Specifications

Table 5-1 SDM default settings

Region	Freq. (MHz)	Default system
Europe, AP-PAL/Multi	475.25	PAL B/G
NAFTA, AP-NTSC, LATAM	61.25 (ch. 3)	NTSC M

- All picture settings at 50% (brightness, colour, contrast).
- All sound settings at 50%, except volume at 25%.
- All service-unfriendly modes (if present) are disabled, like:
  - (Sleep) timer.
  - Child/parental lock.
  - Blue mute.
  - Automatic volume limiter (AVL).
  - Auto switch-off (when no video signal was received for 10 minutes).
  - Skip/blank of non-favourite pre-sets.
  - Smart modes.
  - Auto store of personal presets.
  - Auto user menu time-out.

How to activate SDM
Use one of the following methods:
- Use the standard RC-transmitter and key in the code **“062596”**, directly followed by the “MENU” button.
  Note: It is possible that, together with the SDM, the main menu will appear. To switch it off, push the “MENU” button again.

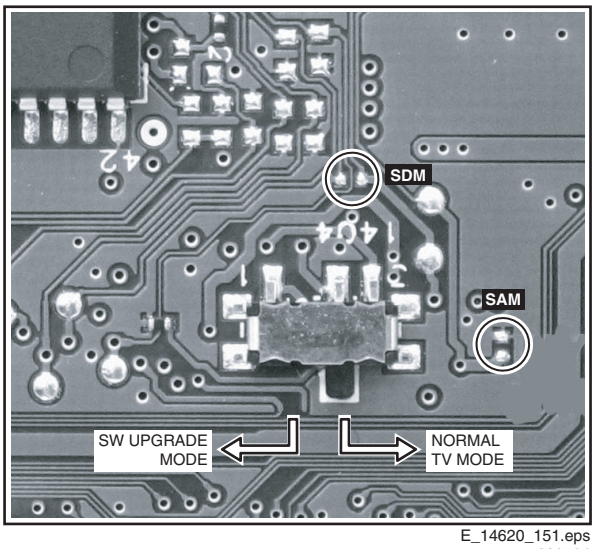

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Figure 5-1 Service pads

- Short for a moment the two solder pads on the SSB, with the indication “SDM”. Activation can be performed in all modes, except when the set has a problem with the main microprocessor.
  Caution: If the SDM is activated via the pins, all the software-controlled protections are de-activated.
- Use the DST-emulation feature of ComPair.
- Use the “DEFAULT” button on the Dealer Service Tool (RC7150).

After activating this mode, “SDM” will appear in the upper right corner of the screen.

How to navigate
When you press the “MENU” button on the RC transmitter, the set will toggle between the SDM and the normal user menu (with the SDM mode still active in the background).

How to exit SDM
Use one of the following methods:
- Switch the set to STANDBY via the RC-transmitter.
- Press the “EXIT” button on the DST.
- Via a standard customer RC-transmitter: key in “00”-sequence.

5.2.2 Service Alignment Mode (SAM)

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

Specifications
- Operation hours counter.
- Software version.
- Option settings.

- Error buffer reading and erasing.
- Software alignments.

How to activate SAM

Use one of the following methods:

- Via a standard RC transmitter: key in the code **"062596"** directly followed by the "OSD [i+]" button. After activating SAM with this method a service warning will appear on the screen, you can continue by pressing any digit key on the RC.
- Short for a moment the two solder pads on the SSB with the indication "SAM". Depending on the software version, it is possible that a service warning will appear. You can continue by pressing any digit key on the RC.
- Use the DST-emulation feature of ComPair.
- Press the ALIGN button on the DST while the set is in the normal operation

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

Contents of SAM:

- **OPERATION HOURS.** Displays the accumulated total of operation hours (not the stand-by hours).
- **HARDWARE INFO.**
  - **ROM VERSION.** Displays the date of the software and the software version of the ROM (**example:** TX21EU_1.0_01234 = AAAABB_X.Y_NNNNN).
    - **AAAA**= the chassis name.
    - **BB**= the region: EU= Europe, AP= Asia Pacific PAL/Multi, AN= Asia Pacific NTSC, US= USA, LT= LATAM.
    - **X.Y**= the software version, where X is the main version number (different numbers are not compatible with one another) and Y is the sub version number (a higher number is always compatible with a lower number).
    - **NNNNN**= last five digits of 12nc code software.
  - **FBX Version.** Displays the software version of the FBX
  - **SW VERSION EPLD**. Displays the software version of the EPLD.
- **ERRORS.** (followed by maximal 10 errors). The most recent error is displayed at the upper left (for an error explanation see paragraph "Error Codes").
- **DEFECTIVE MODULE.** Here the module that generates the error is displayed. If there are multiple errors in the buffer, which are not all generated by a single module, there is probably another defect. It will then display the message "UNKNOWN" here.
- **RESET ERROR BUFFER.** When you press the "OK" button, the error buffer is reset.
- **ALIGNMENTS.** This will activate the "ALIGNMENTS" sub-menu.
- **DEALER OPTIONS.** Extra features for the dealers.
- **SERVICE OPTIONS.** Extra features for Service.
- **INITIALISE NVM.** When an NVM was corrupted (or replaced) in the former EM3 chassis, the microprocessor replaced the content with default data (to assure that the set can operate). However, all pre-sets and alignment values are gone now, and option numbers are not correct. Therefore, this was a very drastic way. In this chassis, the procedure is implemented in another way: The moment the processor recognises a corrupted NVM, the "initialise NVM" line will be highlighted. Now, you can do two things (dependent of the service instructions at that moment):
  - Save the content of the NVM via ComPair for development analysis, **before** initialising. This will give the Philips Service department an extra possibility for diagnosis (e.g. when Development asks for this).
  - Initialise the NVM (same as in the past, however now it happens conscious).
- **STORE.** All options and alignments are stored when pressing the "OK"-button
- **FUNCTIONAL TEST.** All devices are tested via the "OK" button. Eventual errors are displayed in the error buffer. The error buffer is not erased, the content returns when this test is terminated.
- **DAILY MENUS.** With the "OK" button, you can go to the normal user menu. SAM is still active in the background. With the "MENU" button, you return from the user menu to SAM menu. This feature can be helpful to quickly change some settings in the user menu.
- **SW MAINTENANCE.**
  - **UPGRADE.** More info see paragraph Software downloading.
  - **EVENTS.** Not useful for Service purposes. In case of specific software problems, the development department can ask for this info.
  - **BDM INFO.** Broadcast Debug Menu info. The purpose of this menu is to debug the broadcast, **not** the TV. The menu gives an overview of what is received on the current preset.

Following items are displayed:

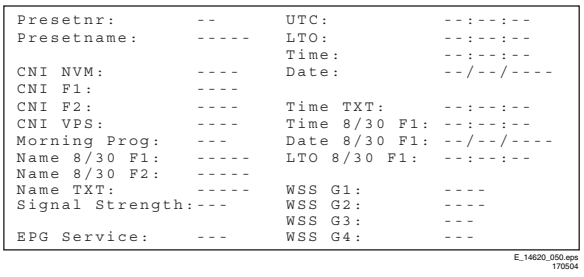


Figure 5-2 Broadcast debug menu overview.

Table 5-2 Broadcast debug menu explanation

Item	Source	Description
Presetnr	Set	Preset number of the current selected preset.
Presetname	Set	Preset name of the current selected preset.
CNI NVM	Broadcaster	CNI number stored in NVM for the current preset.
CNI F1	Broadcaster	CNI number from transmitted Packet 8/30 Format 1.
CNI F2	Broadcaster	CNI number from transmitted Packet 8/30 Format 2.
CNI VPS	Broadcaster	CNI number from transmitted VPS line.
Morning Prog	Broadcaster	"ARD" or "ZDF" according to dedicated bit in 8/30 Format 1.
Name 8/30 F1	Broadcaster	Name extracted from status message of 8/30 Format 1.
Name 8/30 F2	Broadcaster	Name extracted from status message of 8/30 Format 2.
Name TXT	Broadcaster	Name extracted from TXT header.
Signal Strength	FBX	Noise figure measured for selected preset.
EPG Service	Set	EPG Service stored in NVM for current preset displayed as "TXT", "MCP", "SCP", "OCP".
UTC	Set	UTC (Universal Time Code formerly known as Greenwich Mean Time) used in the set.
LTO	Set	LTO (Local Time Offset) used in the set. Used by EPG for all Nextview displays. (= Time TXT header - Time 8/30 F1)
Time	Set	Current time running in the set. Was extracted at start-up, then maintained by software.
Date	Set	Current date running in the set. Was extracted at start-up, then maintained by software.
Time TXT	Broadcaster	TXT header time from the selected preset.
Time 8/30 F1	Broadcaster	UTC time from 8/30 Format 1.
Date 8/30 F1	Broadcaster	Date from 8/30 Format 1.
LTO 8/30 F1	Broadcaster	LTO from 8/30 Format 1.
WSS G1	Broadcaster	WSS Group 1 (Aspect Ratio) bits 0 1 2 3
WSS G2	Broadcaster	WSS Group 2 (Enhanced Services) bits 4 5 6 7
WSS G3	Broadcaster	WSS Group 3 (Subtitles) bits 8 9 10
WSS G4	Broadcaster	WSS Group 4 (Reserved) bits 11 12 13

How to navigate

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

How to exit SAM

Use one of the following methods:

- Press the “MENU” button on the RC-transmitter, or
- Switch the set to STANDBY via the RC-transmitter, or
- Press the “EXIT” button on the DST.

5.2.3 Customer Service Mode (CSM)

Purpose

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

How to activate CSM

Use one of the following methods:

- Press the “MUTE” button on the RC-transmitter **simultaneously** with the “MENU” button on the TV (top control) for at least 4 seconds.
- Key in the code **“123654”** via the standard RC transmitter.

Note: Activation of the CSM is only possible if there is no (user) menu on the screen!

How to navigate

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

Contents of CSM

CUSTOMER SERVICE MENU 1

- **SOFTWARE VERSION (example: TX21EU_1.0_01234).** Displays the built-in software version. In case of field problems related to software, software can be upgraded (for more details, see paragraph Software downloading). You will find details of the software versions in the chapter “Software Survey” of the “Product Survey - Colour Television” publication. This publication is generated four times a year.
- **FEATURE BOX**. The 12NC-number of the built-in Feature Box software.
- **SET TYPE.** This information is very helpful for a help desk/ workshop as reference for further diagnosis. In this way, it is not necessary for the customer to look at the rear of the TV-set.
- **CODE 1.** Gives the latest five errors of the error buffer. As soon as the built-in diagnose software has detected an error the buffer is adapted. The last occurred error is displayed on the leftmost position. Each error code is displayed as a 3-digit number. When less than 10 errors occur, the rest of the buffer is empty (000). See also paragraph Error Codes for a description.
- **CODE 2.** Gives the first five errors of the error buffer. See also paragraph Error Codes for a description.
- **VOLUME.** Gives the last status of the volume as set by the customer. The value can vary from 0 (volume is minimum) to 100 (volume is maximum). Volume values can be changed via the volume key on the RC-transmitter.
- **BRIGHTNESS.** Gives the last status of the brightness as set by the customer. The value can vary from 0 (brightness is minimum) to 100 (brightness is maximum). Brightness values can be changed via the “CURSOR LEFT” and “CURSOR RIGHT” keys on the RC-transmitter after pressing the “MENU” button and selecting “PICTURE” and “BRIGHTNESS”.
- **CONTRAST.** Gives the last status of the contrast as set by the customer. The value can vary from 0 (contrast is minimum) to 100 (contrast is maximum). Contrast values can be changed via “CURSOR LEFT” and “CURSOR RIGHT” keys on the RC-transmitter after pressing the “MENU” button and selecting “PICTURE” and “CONTRAST”.
- **COLOUR.** Gives the last status of the colour saturation, as set by the customer. The value can vary from 0 (colour is minimum) to 100 (colour is maximum). Colour values can be changed via “CURSOR LEFT” and “CURSOR RIGHT” keys on the RC-transmitter after pressing the “MENU” button and selecting “PICTURE” and “COLOUR”.
- **HUE.** Only relevant for NTSC-signals (e.g. some NTSC-DVD-discs).

CUSTOMER SERVICE MENU 2

- **SHARPNESS.** Gives the sharpness value. The value can vary from 0 (sharpness is minimum) to 7 (sharpness is maximum). In case of bad antenna signals, a too high value of the sharpness can result in a noisy picture. Sharpness values can be changed via the “CURSOR LEFT” and “CURSOR RIGHT” keys on the RC-transmitter after pressing the “MENU” button and selecting “PICTURE” and “SHARPNESS”.
- **HEADPHONE VOLUME.** Gives the last status of the headphone volume, as set by the customer. The value can vary from 0 (volume is minimum) to 100 (volume is maximum). Headphone volume values can be changed via the “CURSOR LEFT” and “CURSOR RIGHT” keys on the RC-transmitter after pressing the “MENU” button and selecting “SOUND” and “HEADPHONE VOLUME”.
- **DOLBY.** Indicates whether the received transmitter transmits Dolby sound (“ON”) or not (“OFF”). Attention: The presence of Dolby can only be tested by the software on the Dolby Signalling bit. If a Dolby transmission is received without a Dolby Signalling bit, this indicator will show “OFF” even though a Dolby transmission is received.
- **SURROUND MODE.** Indicates the by the customer selected surround mode (or automatically chosen mode). Possible values are “OFF”, “INCREDIBLE SURROUND” OR “DOLBY VIRTUAL”. These settings can be influenced after pressing the “MENU” button and selecting “SOUND” and SURROUND MODE”. It can also have been selected automatically by signalling bits (internal software).
- **TUNER FREQUENCY.** Indicates the frequency the selected transmitter is tuned to. The tuner frequency can be changed via the “CURSOR LEFT” and “CURSOR RIGHT” keys for fine tune after opening the installation menu and selecting “INSTALL” and “MANUAL INSTALL”.
- **DIGITAL OPTION.** Gives the selected digital mode, “PROGRESSIVE SCAN”, “MOVIE PLUS” or “PIXEL PLUS”. Change via “MENU”, “PICTURE”, “DIGITAL OPTIONS”.
- **CENTRE TRIM.** Not applicable for this set.
- **TV SYSTEM.** Gives information about the video system of the selected transmitter.
  – BG: PAL BG signal received.
  – DK: PAL DK signal received.
  – I: PAL I signal received.
  – L/La: SECAM L/La signals received.
  – M: NTSC M signal received with video carrier on 38.9 MHz.

CUSTOMER SERVICE MENU 3

- **BALANCE.** Indicates the balance settings, between “-50” and “+50”. Change via “MENU”, “SOUND”, and “BALANCE”. Not applicable for Dolby Pro Logic sets.
- **CENTRE MODE.** Indicates if centre mode is set “ON” or “OFF”. When centre mode is on, all TV speakers are used as one centre speaker. Change Centre mode via “MENU”, “SETUP”, “SPEAKERS”, and “CENTRE MODE”.
- **DNR.** Gives the selected DNR setting (Dynamic Noise Reduction), “OFF”, “MINIMUM”, “MEDIUM”, or “MAXIMUM”. Change via “MENU”, “PICTURE”, “DNR”
- **NOISE FIGURE.** Gives the noise ratio for the selected transmitter. This value can vary from 0 (good signal) to 127 (average signal) and to 255 (bad signal). For some software versions, the noise figure will only be valid when “Active Control” is set to “medium” or “maximum”.
- **SOURCE.** Indicates which source is used and the video/ audio signal quality of the selected source. (**Example:** Tuner, Video/NICAM) Source: “TUNER”, “EXT1”, “EXT2”, “EXT3”, “EXT4”, “SIDE”, “AV1”, “AV2”, “AV3” or “AV4”. Video signal quality: “VIDEO”, “S-VIDEO”, “RGB 1FH”, “YPBPR 1FH 480P”, “YPBPR 1FH 576P”, “YPBPR 1FH 1080I”, “YPBPR 2FH 480P”, “YPBPR 2FH 576P”, “YPBPR 2FH 1080I”, “RGB 2FH 480P”, “RGB 2FH 576P” or “RGB 2FH 1080I”. Audio signal quality: “STEREO”, “SPDIF 1”, “SPDIF 2”, or “SPDIF”.
- **AUDIO SYSTEM.** Gives information about the audio system of the selected transmitter: “ANALOGUE MONO”, “ANALOGUE STEREO”, “PCM 2/0”, “DD 1/0”, “DD 2/0 LtRt”, “DD 2/0 L0R0”, “DD 2/1”, “DD 2/2”, “DD 3/0”, “DD 3/ 1”, “DD 3/2”, “DD 1+1”, “MPEG 1/0”, “MPEG 2/0”, “MPEG 2/0 LtRt”, “MPEG 2/1”, “MPEG 2/2”, “MPEG 3/0”, “MPEG 3/1”, “MPEG 3/2”, “MPEG 1+1” or “MPEG 2+2”.
- **TUNED BIT.** Gives information about the tuning method of the stored pre-set. If a channel is found via “automatic installation”, you will see the value “YES”. When you change this (automatically found) frequency via “fine tune” adjustment (installation menu - manual installation), the displayed value will change to “NO”. Therefore, when you see the value “NO” in this line, it is an indication that the received channel is a non-standard signal (e.g. of a VCR).
- **SURROUND SPEAKERS.** Not applicable in this set.
- **ON TIMER.** Indicates if the “On Timer” is set “ON” or “OFF” and if the timer is “ON” also displays start time, start day and program number. Change via “MENU”, “TV”, “FEATURES”, and “ON TIMER”.
- **PRESET LOCK.** Indicates if the selected preset has a child lock: “LOCKED” or “UNLOCKED”. Change via “MENU”, “TV”, “FEATURES”, “CHILD LOCK”, and “CUSTOM LOCK”.

CUSTOMER SERVICE MENU 4

- **CHILD LOCK.** Indicates the last status of the general child lock: “UNLOCK”, “LOCK”, or “CUSTOM LOCK”. Change via “MENU”, “TV”, “FEATURES”, “CHILD LOCK”, and “LOCK”.
- **AGE LOCK.** Indicates the last status of the EPG rating for child lock: “OFF”, “4 YEARS”, “6 YEARS”, “8 YEARS”, “10 YEARS”, “12 YEARS”, “14 YEARS” or “16 YEARS”. This is only displayed if child lock is set to “CUSTOM LOCK”
- **LOCK AFTER.** Indicates at what time the child lock is set: “OFF” or e.g. “18:45” (lock time). This is only displayed if child lock is set to “CUSTOM LOCK”
- **CATEGORY LOCK.** Indicates the last status of the EPG theme childlock: “MOVIES”, “NEWS”, “SHOWS”, “SPORTS”, “CHILDREN”, “MUSIC”, “CULTURE”, or “SERIES”. This is only displayed if child lock is set to “CUSTOM LOCK”. It is possible that more than one value is shown.
- **PROGRAM CATEGORY.** Indicates the theme of the selected transmitter: “MOVIES”, “NEWS”, “SHOWS”, “SPORTS”, “CHILDREN”, “MUSIC”, “CULTURE”, or “SERIES”.
- **TV RATINGS LOCK.** Only applicable for US.
- **MOVIE RATINGS LOCK.** Only applicable for US.
- **V-CHIP TV STATUS.** Only applicable for US.

CUSTOMER SERVICE MENU 5

- **V-CHIP MOVIE STATUS.** Only applicable for US.
- **OPTIONS 1.** Gives the option codes of option group 1 as set in SAM (Service Alignment Mode).
- **OPTIONS 2.** Gives the option codes of option group 2 as set in SAM (Service Alignment Mode).
- **AVL.** Indicates the last status of AVL (Automatic Volume Level): “ON” or “OFF”. Change via “MENU”, “TV”, “SOUND”, “AVL”
- **DELTA VOLUME.** Indicates the last status of the delta volume for the selected preset as set by the customer: from “-12” to “+12”. Change via “MENU”, “TV”, “SOUND”, “DELTA VOLUME”.
- **FRONT SPKR DIST.** Not applicable for this set.
- **FRONT SPKR DIST.** Not applicable for this set.

How to exit CSM

Use one of the following methods:

- After you press a key on the RC-transmitter (with exception of the “CHANNEL”, “VOLUME” and digit (0-9) keys), or
- After you switch the TV-set “OFF” with the mains switch.

5.3 Problems and Solving Tips (related to CSM)

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

5.3.1 Picture Problems

Snowy/noisy picture

1. Check in CSM line NOISE FIGURE. In case the value is "127" or higher, and the value is also high on other programs, check the aerial cable/aerial system. For some software versions, the noise figure will only be valid when “Active Control” is set to “medium” or “maximum”.
2. Check in CSM lines SHARPNESS and NOISE FIGURE. In case the value of line SHARPNESS is "3" or "4" and the value of line NOISE FIGURE is high ("127" or higher), decrease the "Sharpness” value.

Picture too dark

1. Press “Menu”, “TV”, “Picture”, “Smart Picture”. In case the picture improves, increase the “Brightness” or the “Contrast” value. The new value(s) are automatically stored (in “personal” pre-set) for all TV channels.
2. Check in CSM line BRIGHTNESS and CONTRAST. If the value of these lines is low (< "10"), increase the “Brightness” or the “Contrast” value via the user menu.

Picture too bright

1. Press “Menu”, “TV”, “Picture”, “Smart Picture”. In case the picture improves, decrease the “Brightness” or the “Contrast” value. The new value(s) are automatically stored (in “personal” pre-set) for all TV channels.
2. Check in CSM lines BRIGHTNESS and CONTRAST. If the value of these line is high (> 50), decrease the “Brightness” value or increase the “Contrast” value via the user menu.

White line around picture elements and text

1. Press “Menu”, “TV”, “Picture”, “Smart Picture”. In case the picture improves, decrease the “Sharpness” value. The new value is automatically stored (in “personal” pre-set) for all TV channels.
2. Check in CSM line “Sharpness”. If the value is high, decrease it. The new value is automatically stored for all TV channels.

No picture
Check in CSM line TUNED BIT. In case the value is “No”, install the required program again. Open the installation menu and perform manual installation.

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

No picture or unstable picture
A scrambled or decoded signal is received.

Black and white picture
Check in CSM line COLOUR. In case the value is low (< "10"), increase the “Colour” value via the user menu. The new value is automatically stored for all TV channels.

No colours/colour lines around picture elements or colours not correct or unstable picture
1. Check in CSM line TV SYSTEM. If a “strange” system pops up, something has gone wrong during installation. Re-install the channel.
2. If in CSM line TV SYSTEM is “L”, the installed system for this pre-set is “France”, while “West Europe” is required. Install the required program again: open the installation menu and perform manual installation. Select system “West Europe”.

Menu text not sharp enough
1. Press “MENU”, “TV”, “PICTURE”, “SMART PICTURE”. In case picture improves, decrease the contrast value. The new value(s) are automatically stored for all TV channels.
2. Check line “Contrast”. If the value is high, decrease the contrast value.

5.3.2 Sound Problems

No sound from left and right speaker
Check line 6 “Volume”. The value is low. Increase the value of “Volume”. The new value(s) are automatically stored (in “personal” pre-set) for all TV channels.

5.4 ComPair

5.4.1 Introduction

ComPair (Computer Aided Repair) is a service tool for Philips Consumer Electronics products. ComPair is a further development on the European DST (service remote control), which allows faster and more accurate diagnostics. ComPair has three big advantages:
- ComPair helps you to quickly get an understanding on how to repair the chassis in a short time by guiding you systematically through the repair procedures.
- ComPair allows very detailed diagnostics (on I^2C level) and is therefore capable of accurately indicating problem areas. You do not have to know anything about I^2C commands yourself because ComPair takes care of this.
- ComPair speeds up the repair time since it can automatically communicate with the chassis (when the microprocessor is working) and all repair information is directly available. When ComPair is installed together with the SearchMan electronic manual of the defective chassis, schematics and PWBs are only a mouse click away.

5.4.2 Specifications

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

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

The ComPair fault finding program is able to determine the problem of the defective television. ComPair can gather diagnostic information in two ways:
- Automatic (by communication with the television): ComPair can automatically read out the contents of the entire error buffer. Diagnosis is done on I^2C level. ComPair can access the I^2C bus of the television. ComPair can send and receive I^2C commands to the micro controller of the television. In this way, it is possible for ComPair to communicate (read and write) to devices on the I^2C buses of the TV-set.
- Manually (by asking questions to you): Automatic diagnosis is only possible if the micro controller of the television is working correctly and only to a certain extends. When this is not the case, ComPair will guide you through the fault finding tree by asking you questions (e.g. *Does the screen give a picture? Click on the correct answer: YES / NO*) and showing you examples (e.g. *Measure test-point I7 and click on the correct oscillogram you see on the oscilloscope*). You can answer by clicking on a link (e.g. text or a waveform picture) that will bring you to the next step in the fault finding process.

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

Beside fault finding, ComPair provides some **additional features** like:
- Up- or downloading of pre-sets.
- Managing of pre-set lists.
- Emulation of the Dealer Service Tool (DST).
- If both ComPair and SearchMan (Electronic Service Manual) are installed, all the schematics and the PWBs of the set are available by clicking on the appropriate hyperlink.
  Example: *Measure the DC-voltage on capacitor C2568 (Schematic/Panel) at the Mono-carrier*.
  – Click on the “Panel” hyperlink to automatically show the PWB with a highlighted capacitor C2568.
  – Click on the “Schematic” hyperlink to automatically show the position of the highlighted capacitor.

5.4.3 Stepwise Start-up

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

Stepwise start- up explanation
This is realised via ComPair and is very helpful when a **protection** is activated (see also chapter “Protections”). The following diagram shows the start-up procedure of the set. Every step of the stepwise start-up (also called trapped start-up) in the diagram corresponds with the number of times the led blinks.

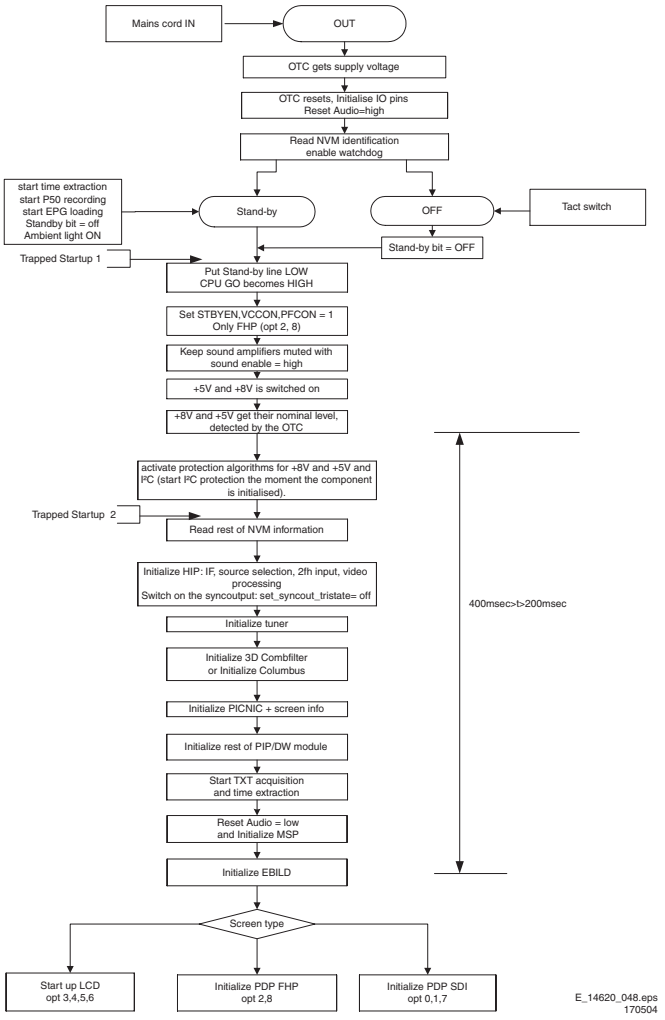


Figure 5-3 Stepwise start-up part 1

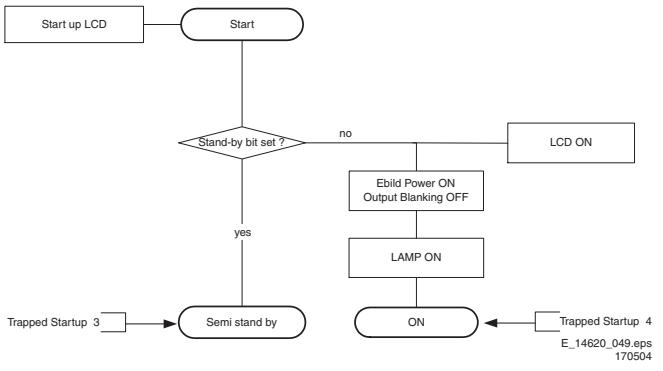


Figure 5-4 Stepwise start-up part 2

Note (*):

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

5.4.4 How To Connect

This is described in the chassis fault finding database in ComPair.

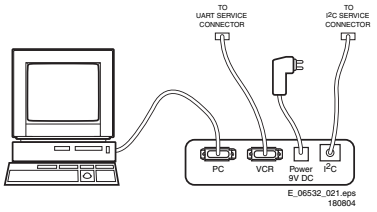


Figure 5-5 ComPair interface connection

5.4.5 How To Order

ComPair order codes (EU/AP/LATAM):

- Starter kit ComPair32/SearchMan32 software and ComPair interface (excl. transformer): 3122 785 90450.
- ComPair interface (excl. transformer): 4822 727 21631.
- Starter kit ComPair32 software (registration version): 3122 785 60040.
- Starter kit SearchMan32 software: 3122 785 60050.
- ComPair32 CD (update): 3122 785 60070 (year 2002), 3122 785 60110 (year 2003 onwards).
- SearchMan32 CD (update): 3122 785 60080 (year 2002), 3122 785 60120 (year 2003), 3122 785 60130 (year 2004).
- ComPair firmware upgrade IC: 3122 785 90510.
- Transformer (non-UK): 4822 727 21632.
- Transformer UK: 4822 727 21633.
- ComPair interface cable: 3122 785 90004.
- ComPair interface extension cable: 3139 131 03791.
- ComPair UART interface cable: 3122 785 90630

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

5.5 Error Codes

5.5.1 Introduction

The error code buffer contains all detected errors since the last time the buffer was erased. The buffer is written from left to right, new errors are logged at the left side, and all other errors shift one position to the right.
When an error has occurred, the error is added to the list of errors, provided the list is not full or the error is a protection error.
When an error occurs and the error buffer is full, then the new error is not added, and the error buffer stays intact (history is maintained), except when the error is a protection error.
To prevent that an occasional error stays in the list forever, the error is removed from the list after 50+ operation hours.
When multiple errors occur (errors occurred within a short time span), there is a high probability that there is some relation between them.

5.5.2 How to read the Error Buffer

Use one of the following methods:

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

5.5.3 How to clear the Error Buffer

Use one of the following methods:

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

5.5.4 Error Codes

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

- I^2C device errors.
- I^2C bus errors.
- Protection errors.
- Errors not related to an I^2C device, but of importance:
  - **FEM (Falconic with Embedded Memory) (Error 26):** at start-up, after initialisation of the PICNIC, the presence of the FEM can be checked.
  - **Eagle (Error 27):** at start-up, after initialisation of the PICNIC, the presence of the Eagle can be checked.

Table 5-3 Error Table

Error	Device	Description	Def. item	Def. Module indication	Diagr.
1	M24Cxx	NVM, spontaneous blinking error 1	7011	Control	B5a
3	SAA4978	PICNIC	7713	Feature Box	B3a
4	Supply 5 V	5V protection	/	+5V Supply	B5a
5	Supply 8 V	8V protection	/	+8V Supply	B5a
6	Slow I^2C bus blocked	Spontaneous blinking error 6	/	Slow I^2C Blocked	/
8	TDA932x	HIP High-end Input Processor	7323	Chroma IF IO	B2
13	UV1318/...	Tuner protection	1T01	Tuner	B13a
14	MSPxxxx	ITT sound processor	7A02	Audio module	B6a
18	Fast I^2C bus blocked	Spontaneous blinking error 18	/	Fast I^2C Blocked	/
21	M62320P	I/O Expander	7P56	Video Dual Screen	B15b
23	UV1318/...	Sub tuner	1T02	Video Dual Screen	B13b
24	SAB9083H	PIP Muppet	7PA6	Video Dual Screen	B15c
25	Z86130	V-CHIP (US only)	7P51	Video Dual Screen	B15b
26	SAA4998	FEM (Falconic with Embedded Memory)	7760	+3V (FBX) Supply	B3b
27	T6TX5ES	Eagle 1C	7720	+3V (FBX) Supply	B3c
32	M29W400BT	Flash Ram (EPG)	7012	EPG Memory	B5a
34	TDA932x	Second HIP	7P09	Video Dual Screen	B15a
35	T6TU5ES	Columbus	7752	+3V (FBX) Supply	B3d
53	AD9883A	AD converter	7E23	HD	B19c
55	DC/DC converter	One of the voltages is not ok + protection error	/	Supply	/
56	EPLD	EPLD error	7V01	Video control	B19d
76	Audio supply	Audio supply protection	/	/	/
82	TDA7309	Headphone processor	7A06	Video Dual Screen	B6a
83	TEA6422	Source select matrix audio	7I17	Audio Source Select	B14d

Note:

- Error codes 1, 6, or 18 are protection codes and in this case, supplies of some circuits will be switched “off”. Also, in protection, the LED will blink the number of times equivalent to the most recent error code.

5.6 The Blinking LED Procedure

5.6.1 Introduction

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

When the SDM is activated, the front LED will show (blink) the contents of the error-buffer. Error-codes > 10 are shown as follows:
- A long blink of 750 ms (which is an indication of the decimal digit),
- A pause of 1.5 s,
- "n" short blinks (where "n" = 1 - 9),
- When all the error-codes are displayed, the sequence finishes with a LED blink of 3 s,
- The sequence starts again.

Example: Error 12 9 6 0 0.
After activation of the SDM, the front LED will show:
- 1 long blink of 750 ms (which is an indication of the decimal digit) followed by a pause of 1.5 s,
- 2 short blinks followed by a pause of 3 s,
- 9 short blinks followed by a pause of 3 s,
- 6 short blinks followed by a pause of 3 s,
- 1 long blink of 3 s to finish the sequence,
- The sequence starts again.

Note: If errors 1, 6, or 18 occur, the LED always gives the last occurred error even if the set is NOT in service mode.

5.6.2 How to Activate

Use one of the following methods:
- Activate the SDM (only via soldering pads marked "SDM" on SSB). The blinking front LED will show the entire contents of the error buffer (this works in "normal operation" mode and in "protection" mode).
- Transmit the commands "MUTE" - **"062500"** - "OK" with a normal RC. The complete error buffer is shown. Take notice that it takes some seconds before the blinking LED starts.
- Transmit the commands "MUTE" - **"06250x"** - "OK" with a normal RC (where "x" is a number between 1 and 5). When x= 1 the last detected error is shown, x= 2 the second last error, etc.... Take notice that it takes some seconds before the blinking LED starts.
- "DIAGNOSE X" with the DST (where "x" is a number between 1 and 5). When x= 1 the last detected error is shown, x= 2 the second last error, etc.... When x = 0 all errors are shown.

5.7 Protections

5.7.1 Introduction

This chassis has only one microprocessor (OTC), which remains active during Stand-by. This because power of the microprocessor and the attached memory chip set is coming from the 3V3 supply, which is derived from the 5V Stand-by-circuitry. Therefore, in both Power-on as in Stand-by mode, the microprocessor is connected to this power supply.

If a fault situation is detected, an error code will be generated and if necessary, the set is put in protection mode. The protection mode is indicated by the blinking of the front LED at a frequency of 3 Hz (or by a coded blinking in special cases).

The content of the error buffer can be read via the service menu (SAM), the blinking LED procedure or via DST/ComPair.

To get a quick diagnosis, this chassis has three service-modes implemented:
- The **Customer Service Mode** (CSM).
- The **Service Default Mode** (SDM). Start-up of the set in a predefined way.
- The **Service Alignment Mode** (SAM). In this mode, items of the set can be adjusted via a menu.

You can activate both SDM and SAM modes via the "service pads" on the SSB, via an RC-transmitter (DST or standard RC), or via ComPair. It is not possible to activate the SAM in "stand-by"; the TV has to be in "normal operation" mode.

The "Protection Diagram" shows the structure of the protection system. See diagram below.

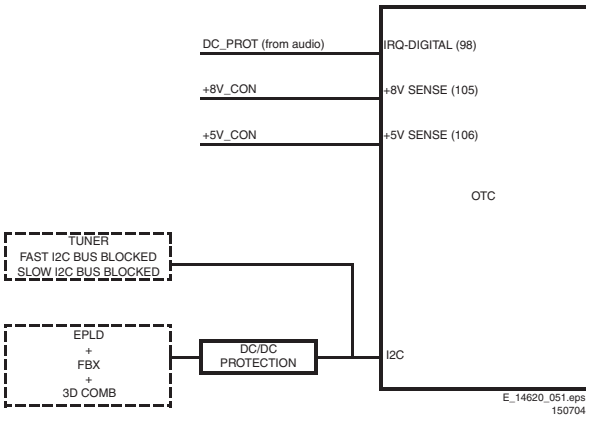


Figure 5-6 Protection diagram

There are several types of protections:
- I^2C related protections.
- OTC related protections (via polling on I/O pins or via algorithms).
- Hardware protection

All protections are explained below.

5.7.2 I^2C Related Protections

In normal operation, some registers of the I^2C controlled ICs are refreshed every 200 ms. During this sequence, the I^2C buses and the I^2C ICs are checked.
An I^2C protection will take place if the SDA and SCL lines are short-circuited to ground, or to each other. An I^2C error will also occur, if the power supply of the IC is missing.

DC/DC protection: When a 3V3 supply is short-circuited, the DC/DC converter switches "off" and goes in protection. The FBX, EPLD IC, and 3D comb IC have no supply voltage and give no acknowledge. In this case, the set should go into protection. An error code is written in the NVM: DC/DC error.

FBX protection: the FBX protection is not available any more. It is replaced by the DC/DC protection.

5.7.3 OTC Related Protections

If a protection is detected at an OTC input, the OTC will start to scan all protection inputs every 200 ms for 5 times. If the protection on one of the inputs is still active after 1 s, the microprocessor will put the set in the protection mode. Before the scanning is started, a so-called "ESD refresh" is carried out. This is done, because the interrupt on one of the inputs is possibly caused either by a flash or by ESD. As a flash or ESD can influence IC settings, the HIP, MSP, 3D Comb and wireless module (not used in this set) are initialised again, to ensure the normal picture and sound conditions of the set.

8 V and 5 V protections: The microprocessor senses the presence of the 8 V and 5 V (via the "+5V_CON" and "+8V_CON" lines). If one (or both) of these voltages is (are) not present, an error code is stored in the error buffer of the NVM, and the set is put in the protection mode.

Audio DC protection: The OTC senses if the audio module is in protection via IRQ-DIGITAL (pin 98 of OTC). If this is the case, the OTC puts the set in protection.

5.7.4 Hardware Protection

Short-circuiting the 3V3 supply from the DC/DC converter will shut down the DC/DC converter. The absence of the 3V3 supply line is also sensed via I^2C (see description DC/DC protection above), this is useful if there is something wrong in the detection circuit of the DC/DC converter. There are no hardware protections in this chassis, which switch off the main supply.

5.8 Repair tips

5.8.1 3V3 Supply (DC/DC converter)

As mentioned above, the DC/DC converter is switched "off" when something goes wrong (detection of a missing 3V3 supply at one of the devices supplied by the 3V3). Because of this, the set goes to protection (I^2C protection). Error code 55 is logged.
For further diagnoses, you need to overrule the I^2C protection: put the set in Service Default Mode by means of the solder pads on the SSB.
The DC/DC converter is still not working because it is switched "off" by the 3V3_FAULT line (schematic B12). Now you have some possibilities:

1. First, measure the impedance over diode 6U06. In normal conditions, you should measure approximately 120 ohm (if possible, verify this with another set). If the impedance is much too low, do not try to start up the converter as mentioned below. Remind that if FET 7U03 is short-circuited, this will also influence your measurement.
2. Desolder coils 5U05 and 5U06, connect an external 3V3 supply at capacitor 2U23 (current limitation to 500 mA) and a second external 3V3 supply at capacitor 2U31 (current limitation to 800 mA). The normal working current of the 3V3_SIM line is approximately 400 mA and the normal working current for the 3V3_DCDCFBX line is approximately 700 mA. Therefore, if one of the currents exceeds their nominal value you can determine in which circuit the overload is situated. If the set would start up and you have normal picture, there is probably no overload but a problem in the detection circuits.
3. If you do not have two external power supplies, you can do the following: Desolder coils 5U02, 5U03, and 5U04 (you must desolder all three, otherwise the circuit could be damaged), connect an external power supply of 3V3 at the cathode of diode 6U06. Make sure to limit the current of this external supply to approximately 1200 mA. If the supplied current exceeds 1100 mA (approximately normal working current) you can conclude that one of the devices supplied by 3V3 is short-circuited.
4. Another possibility is to force the converter to start up by short-circuiting (and keep short-circuited) resistor 3U25 (B12).
   Caution: Be aware that this can damage the set. Even if you measure approximately 120 ohm over diode 6U06, there can still be something wrong in the converter itself. By short-circuiting resistor 3U25, the internal protection of the converter is disabled.

5.8.2 ComPair

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

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

5.8.3 Protections

Activating SDM via the "service pads" will overrule the processor-controlled protections, but not the hardware protections. This means, that the A/D-input protections (5 and 8 V) and the I^2C "not-acknowledging" info of FBX + EPLD + 3D Comb and of the tuner are overruled.
Caution: When doing this, the service technician must know what he is doing, as it could lead to damaging the set.

5.8.4 Repair tip table

Table 5-4 Repair tips

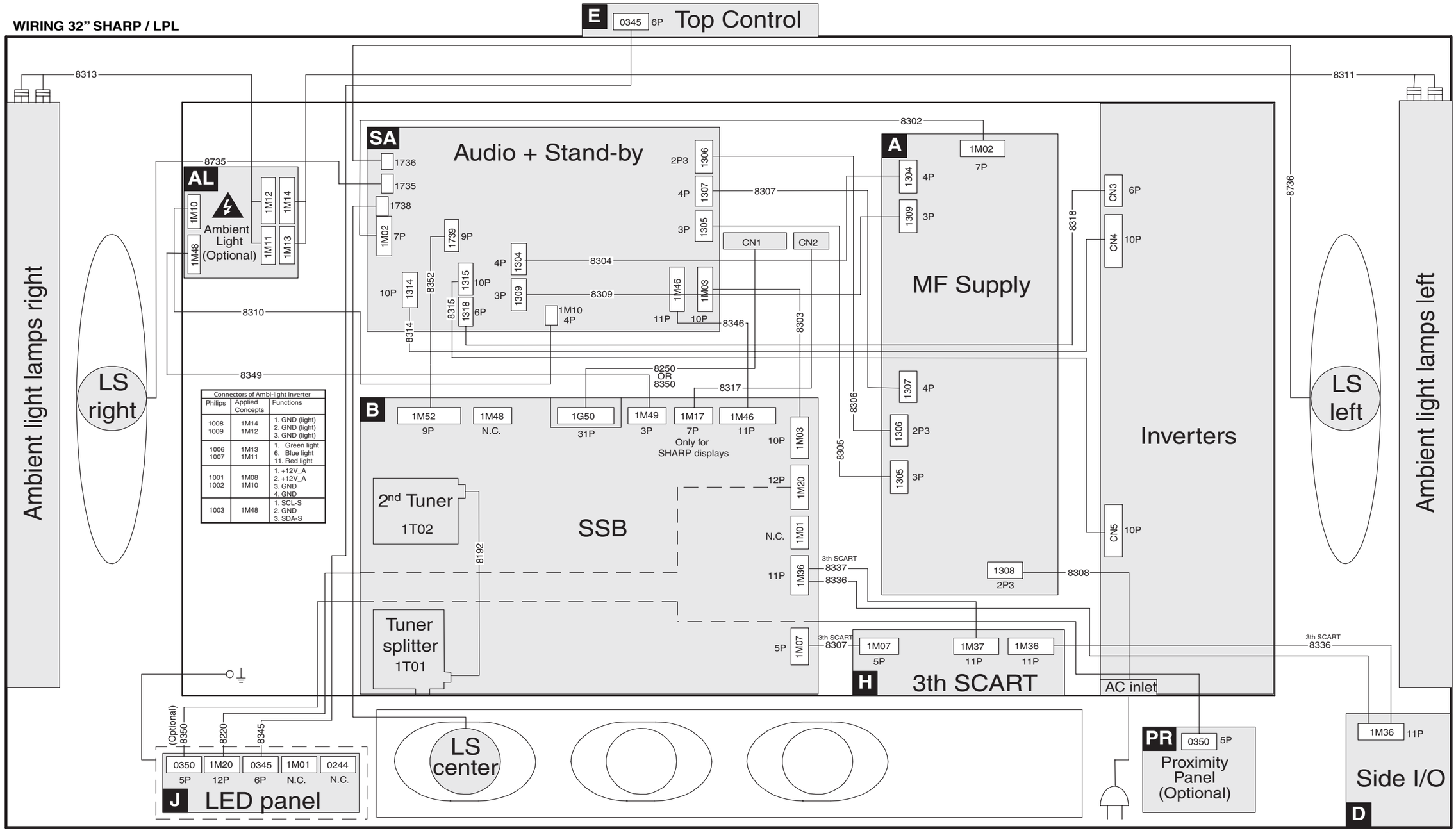
Phenomenon	Possible Cause	Repair tip
F in right corner of the screen and set is not reacting on remote control. The local keyboard is functioning.	TV is in factory mode.	Press menu button on local keyboard for at least 3 seconds. Set will leave factory mode and function normally again.
No picture, LED blinking at 3 Hz.	Set is in protection due to various causes. For error codes see error-code list.	You have no picture, so: - Read the error buffer via ComPair (error buffer is accessible when set is in protection, compare-file will guide you to this) - Read the blinking LED information via standard remote command <mute>**06250x**<ok>. - Or you read the error code sequence via standard remote command <mute>**062500**<ok>. When you have found the error, check the circuitry related to the supply voltage and I^2C-communication or the circuitry that triggers the protection.
No picture, LED blinking with code 6-6-6 or 18-18-18.	No communication on slow I^2C- or fast I^2C-bus.	As processor cannot communicate with one of the 2 buses it the stand-by-led spontaneously starts blinking 6-6-6-etc or 18-18-18-etc... If in the error buffer somewhere is an error 6 or 18, these will have the highest priority starting the mentioned blinking. Measure dependent of the error on the I^2C-bus which device is loading the bus. (Use I^2C-overview)
No picture, LED blinking with code 1-1-1.	No communication on NVM-I^2C bus to the uP.	As the uP cannot communicate with the NVM I^2C bus, it spontaneously starts blinking 1-1-1. **Note:** when there is no access to the NVM, a lot of picture setting can go wrong.
No RC-reception. Blue LED does not echo RC-commands.	uP circuitry or RC-receiver is defective.	In case the set does react on a local keyboard operation, you must check the RC-receiver circuitry (diagram J).
Picture is not synchronised.	The sync is derived in the HIP.	Check crystals in the HIP circuit on bad contacts.
Picture is distorted.	Check video-path in Service Default Mode.	Investigate whether there is an error code present in the error buffer. In case there is one, check the I^2C-bus and/or supply lines (see overview supply lines). Measure and check signal path Tuner-HIP-FBX-EPLD.
Picture with horizontal stripes.	Pixel Plus processing is malfunctioning	Check functionality on circuitry (B3a, B3b, B3c and B3d) of PICNIC, FEM, EAGLE, COLUMBUS and/or field memories. **Tip:** the whole Pixel Plus chipset (4 ICs + Field Memories) can be diagnosed via ComPair.
No NextView (EPG).	IC7012 defective or not powered.	Check circuitry around IC7012 on diagram B5A.
No Teletext.	IC7007 defective or not powered.	Check circuitry around IC7007 on diagram B5A.
Problems caused by EPG (Electronic Program Guide). The TV set "hangs".	Problems with NexTView EPG broadcasts.	To switch from EPG 2C3 to Teletext guide. Press for 4 seconds, simultaneously the Menu button on the TV and digit 0 on the remote. The option settings for NexTView type and Flashram will not change.
NexTView EPG is not functioning only Teletext guide.	EPG version 2C3 is switched off during production.	To switch from Teletext guide to EPG 2C3. Press for 4 seconds, simultaneously the Menu button on the TV and digit 1 on the remote. The option settings for NexTView type and Flashram will not change.
Various symptoms, due to missing local supply voltage.	An interrupted fuse, NFR-resistor or connection.	When no symptom or error code leads you to a specific circuitry, use the supply lines overview (see supply lines overview), for a quick scan of all supply lines.
No sound at the speakers but sound at monitor out.	Possible problem with the class D amplifier	Check circuitry around IC7700 on diagram SA3 (LCD) or C (PDP).
No sound at the speakers but sound at monitor out.	Sound enable from OTC is HIGH, speakers are muted	Check pin 95 of OTC on diagram B5a.
No sound at the speakers not at monitor out, but sound at Scart 1 output.	POR line is low, anti plop circuit mutes the sound	Check pin 8 on connector 1739 on audio panel. Diagram C for PDP sets and diagram SA3 for LCD sets
No sound from any output (except headphone)	Reset audio is high or MSP is not properly reset	Check pin 16 of MSP (diagram B6a) and circuitry around MSP.
No sound from the tuner but sound from any other input.	Problem with the delay line (PDP sets only)	Check circuitry on diagram B6d.
32" Sharp display (LCD) remains black at 1/3 of the bottom	Display is defect.	Replace display.
42" LPL display (LCD) has no backlight.	24V adjustment not correct.	Adjust 24V with pot meter 3U26 on diagram A4 or check circuitry around it.

5.9 Software Downloading

In this chassis, you can **upgrade** the Main software via ComPair without removing the back cover of the set (it is possible that early production sets don't have a hole in the back plate, in this case you have to remove the back plate). The switch (see figure "Service pads"), which is needed for the software downloading procedure, can be reached through a gap in the back cover or the SSB shielding. The switch can be operated with a toothpick or something like that. Make sure that you do not damage the PWB with sharp objects. You can find more information on how this procedure works in the ComPair file. It is possible that not all sets are equipped with the hardware, needed to make software upgrading possible. To speed up the programming process the firmware of the ComPair interface can be upgraded. See paragraph "How To Order" for the order numbers.

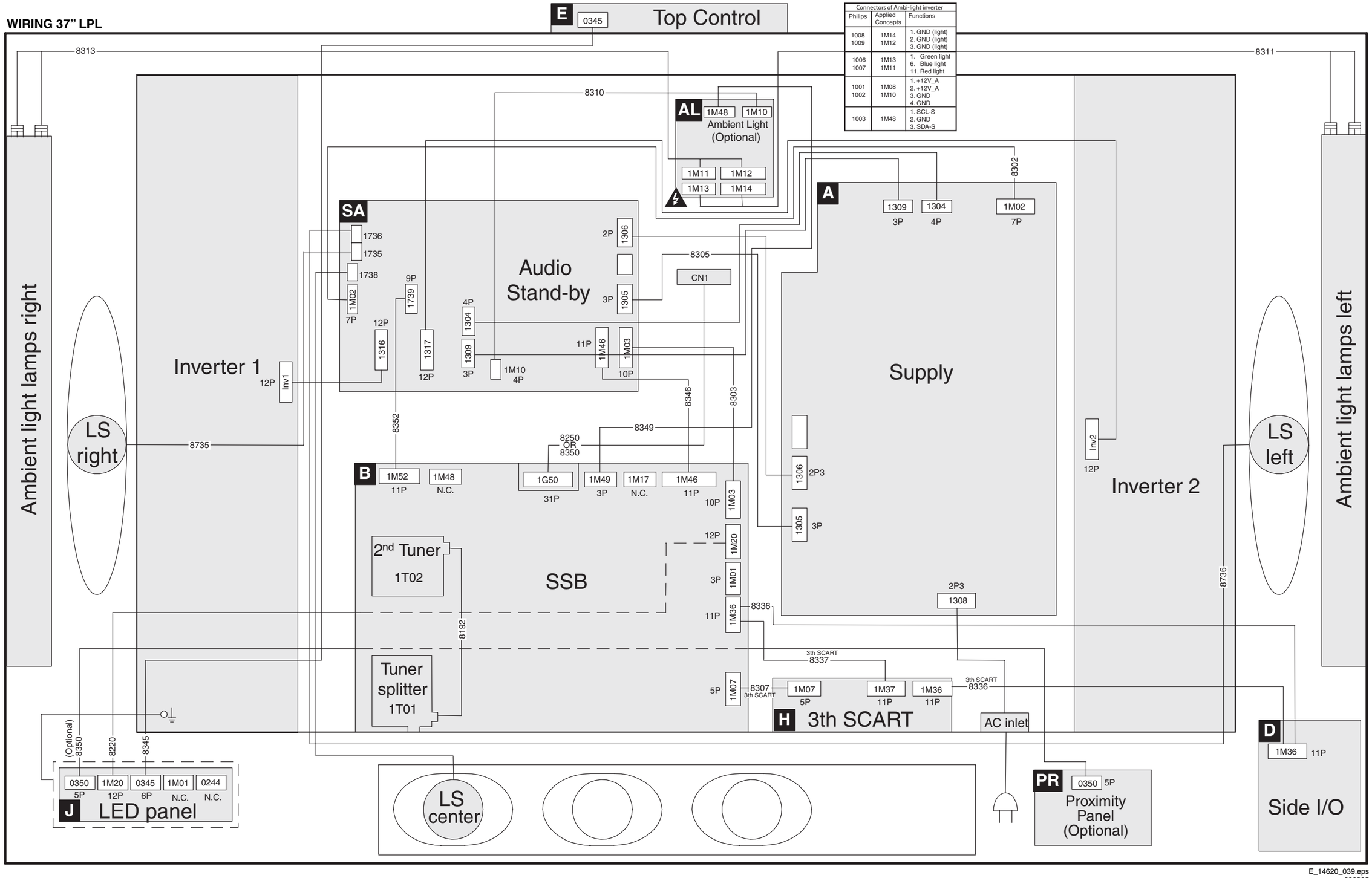
6. Block Diagrams, Testpoint Overviews, and Waveforms

Wiring Diagram 32" Sharp/LPL LCD



E_14620_038.eps
220305

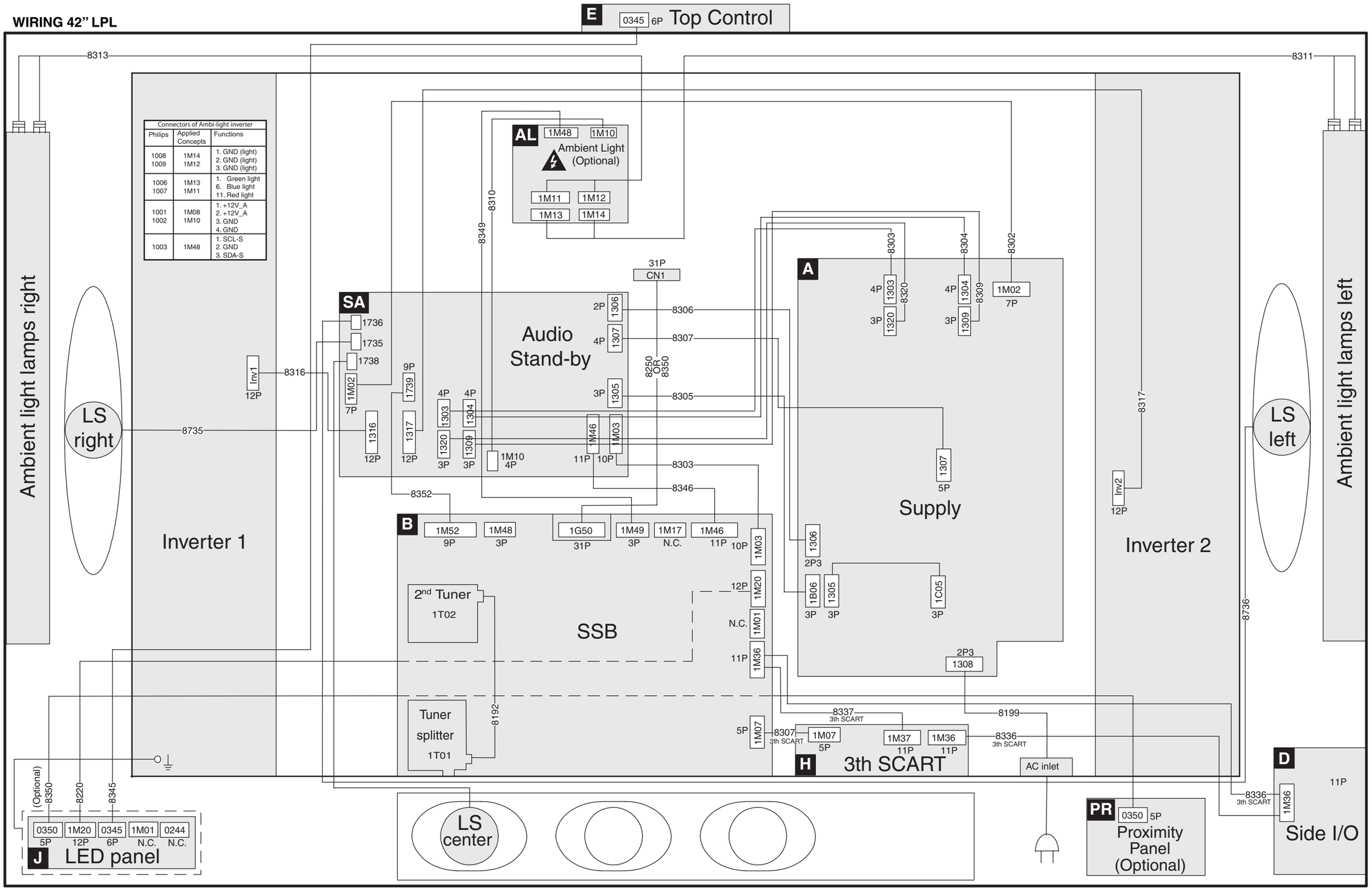
Wiring Diagram 37" LPL LCD



E_14620_039.eps
220305

Wiring Diagram 42" LPL LCD

WIRING 42" LPL



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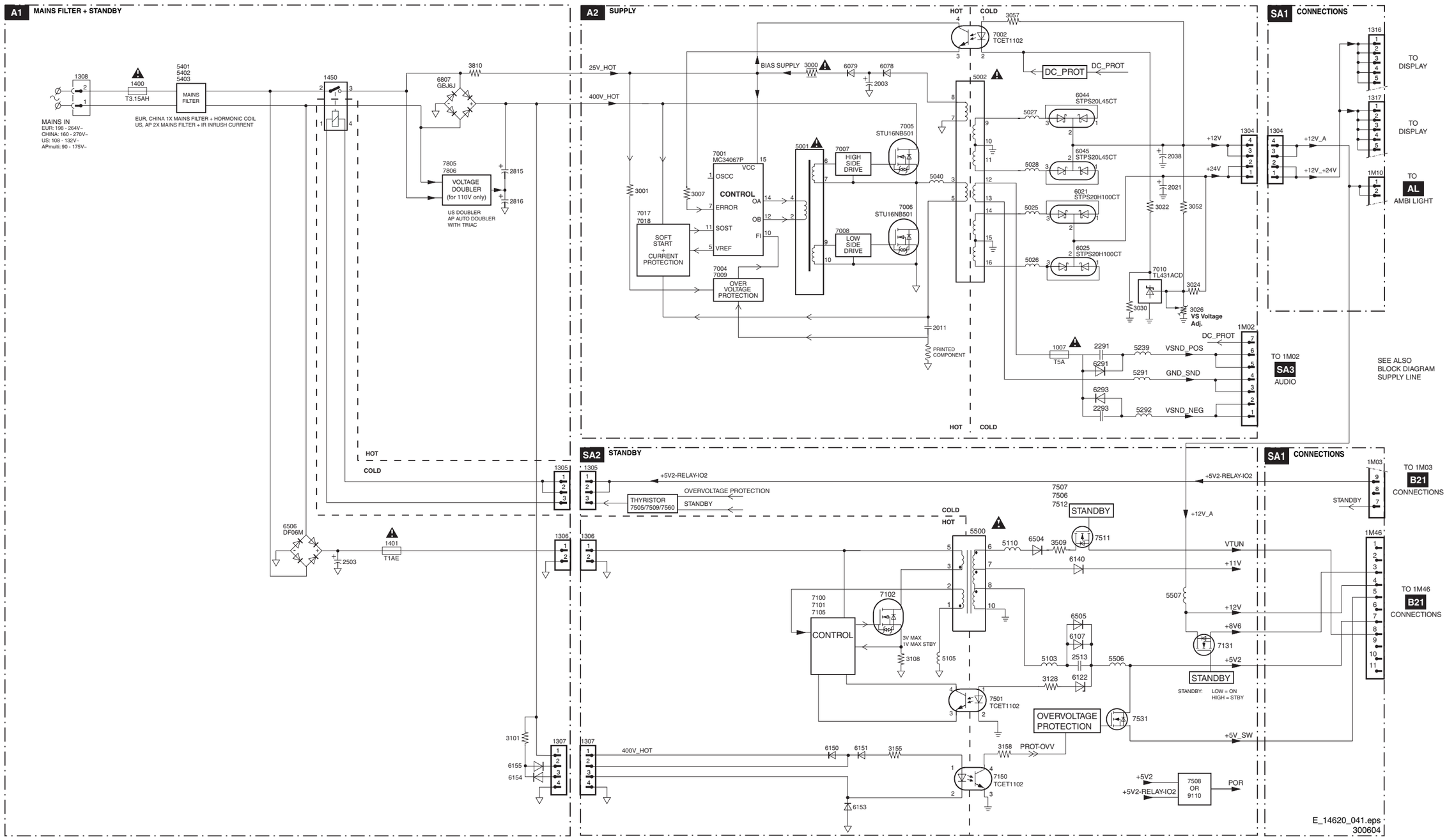
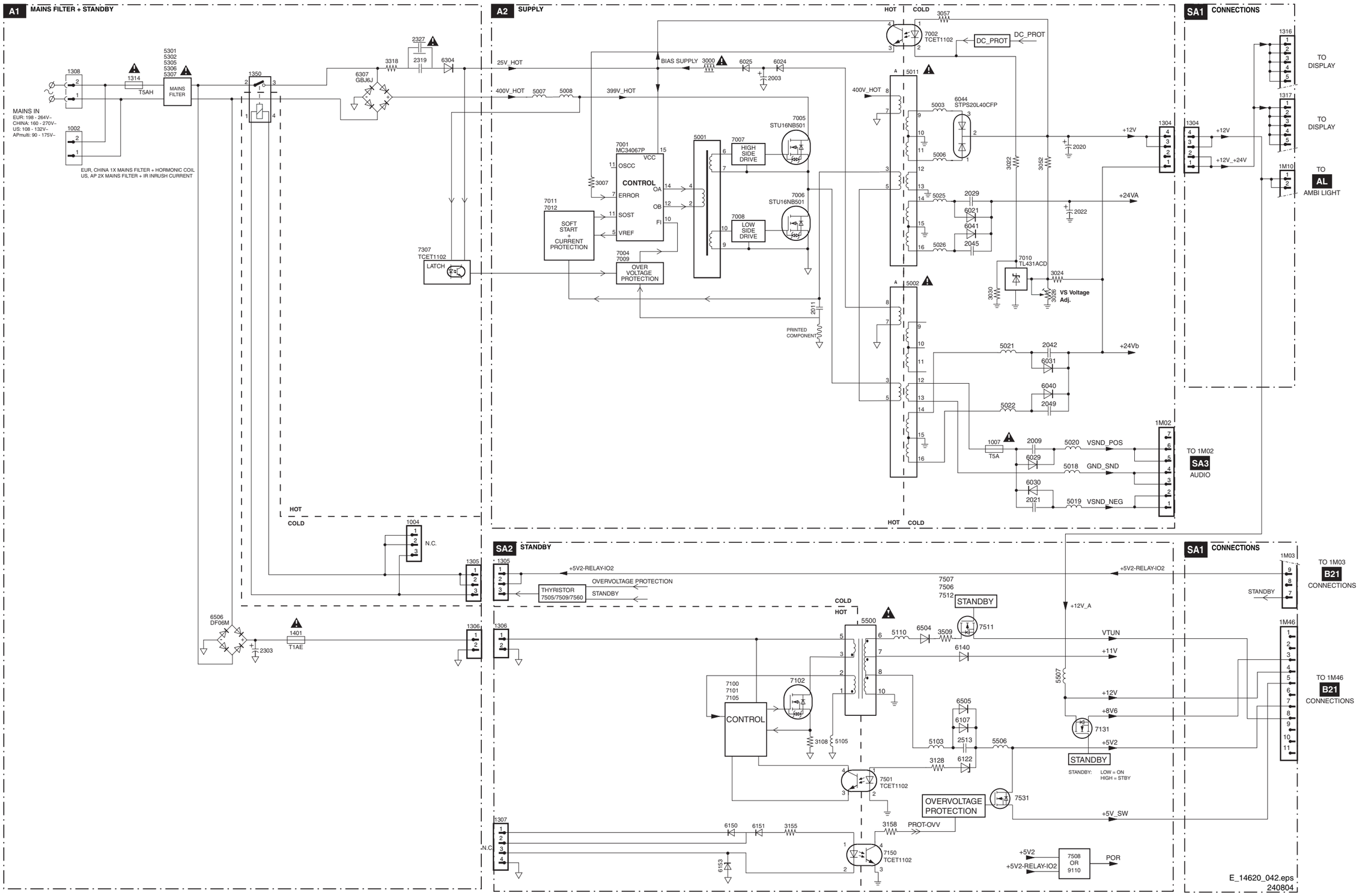
Block Diagram Supply + Standby 32"

SUPPLY + STANDBY 32"



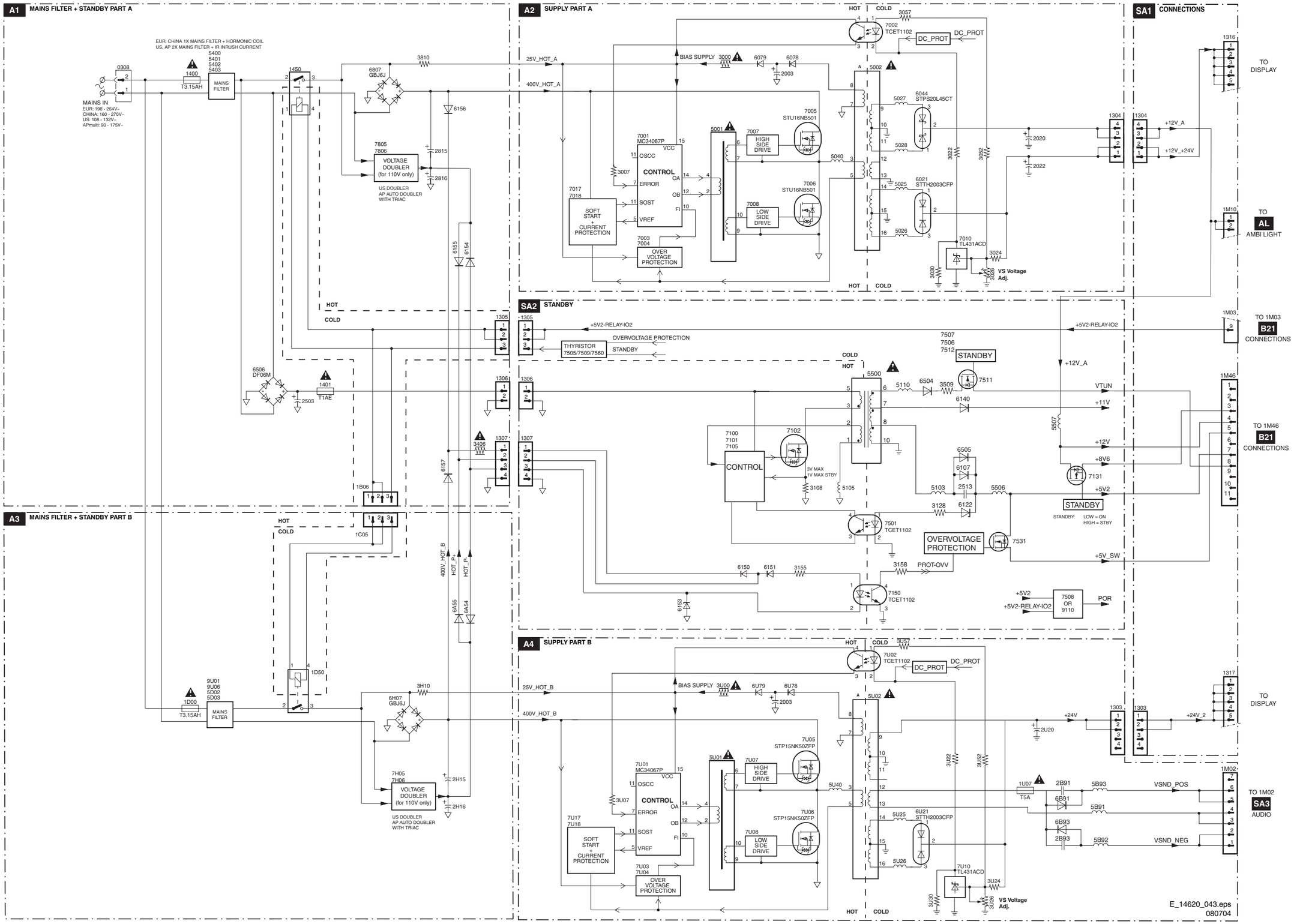
Block Diagram Supply + Standby 37"

SUPPLY + STANDBY 37"

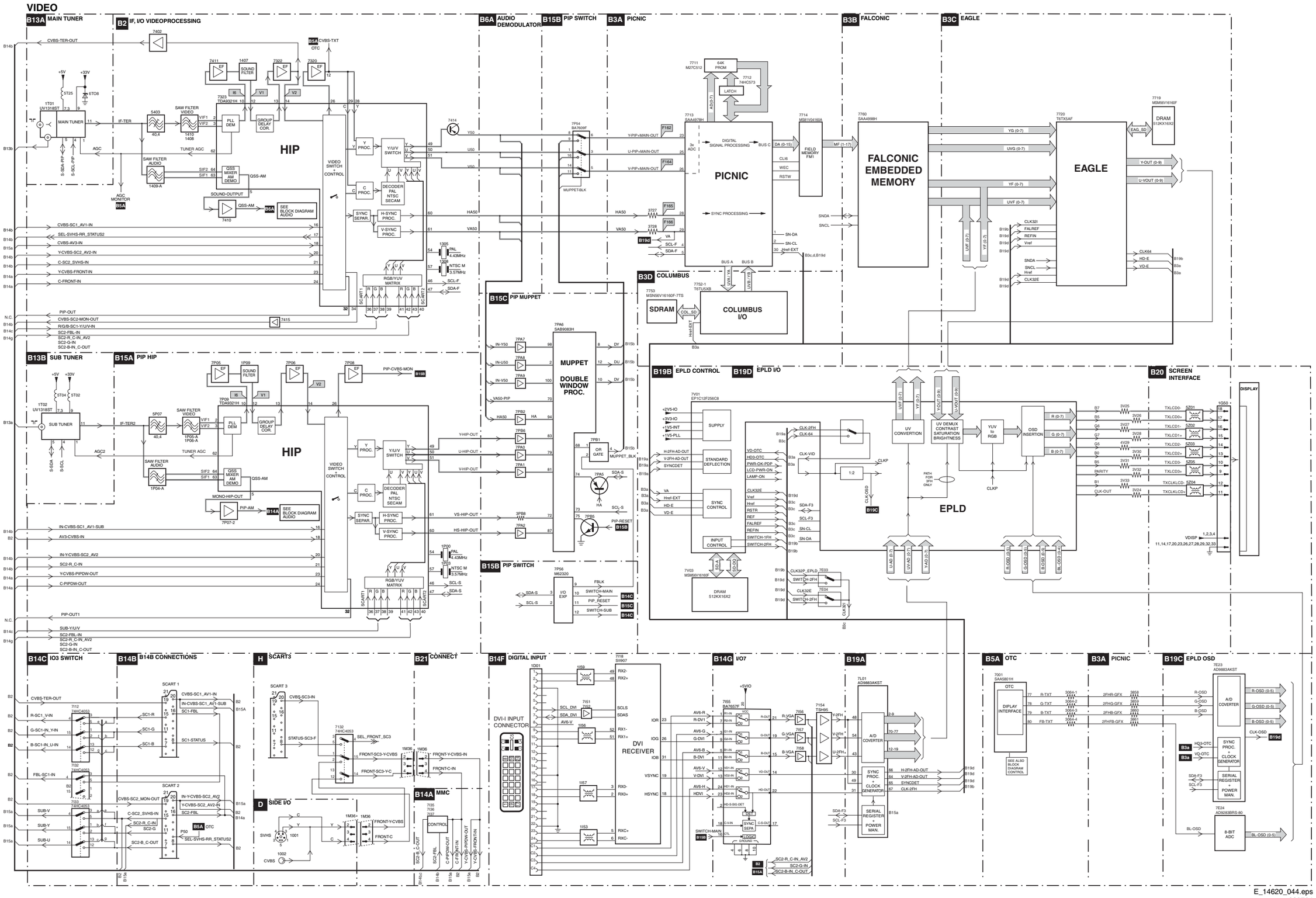


Block Diagram Supply + Standby 42"

SUPPLY + STANDBY 42"



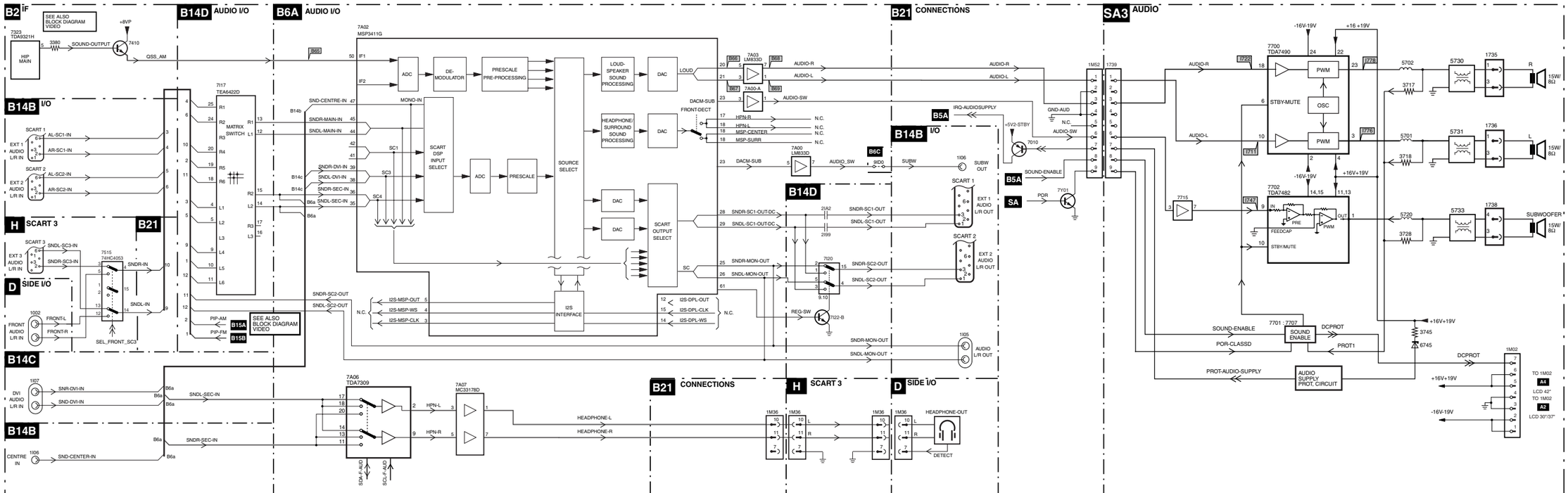
Block Diagram Video



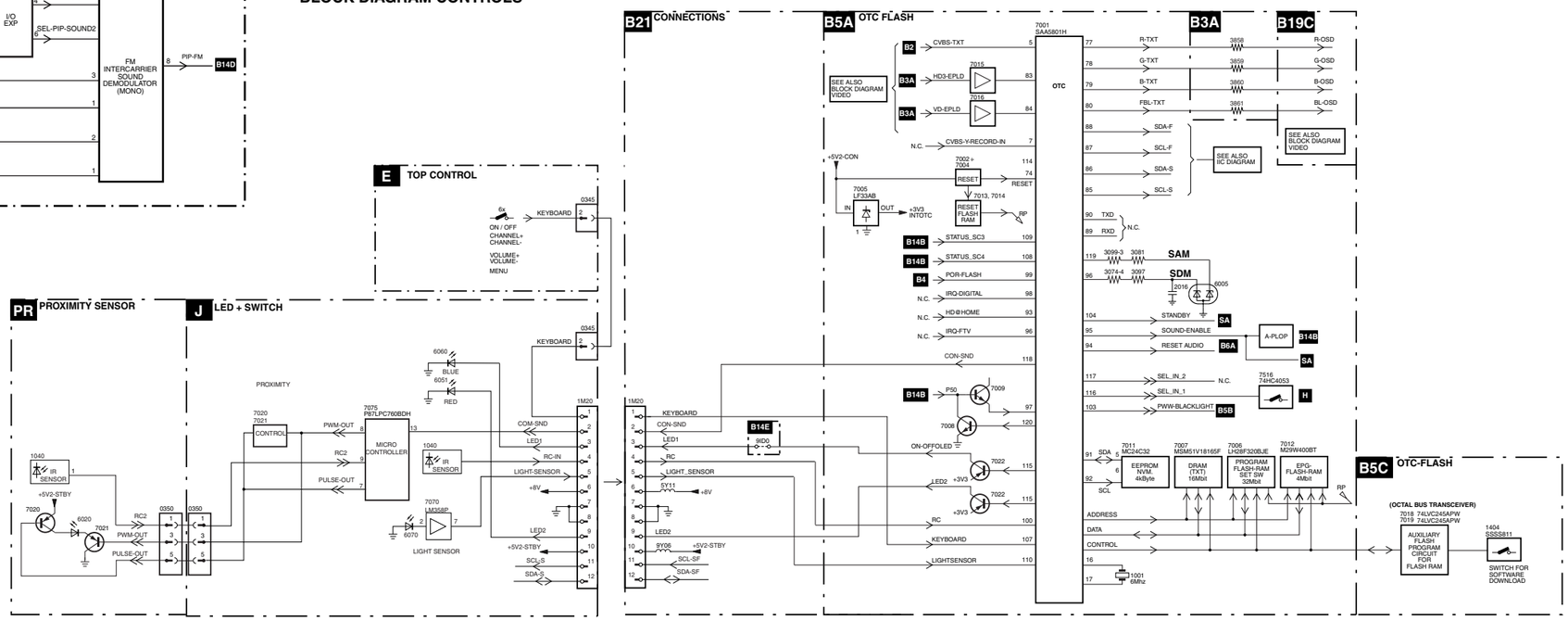
E_14620_044.eps
230704

Block Diagram Audio

AUDIO



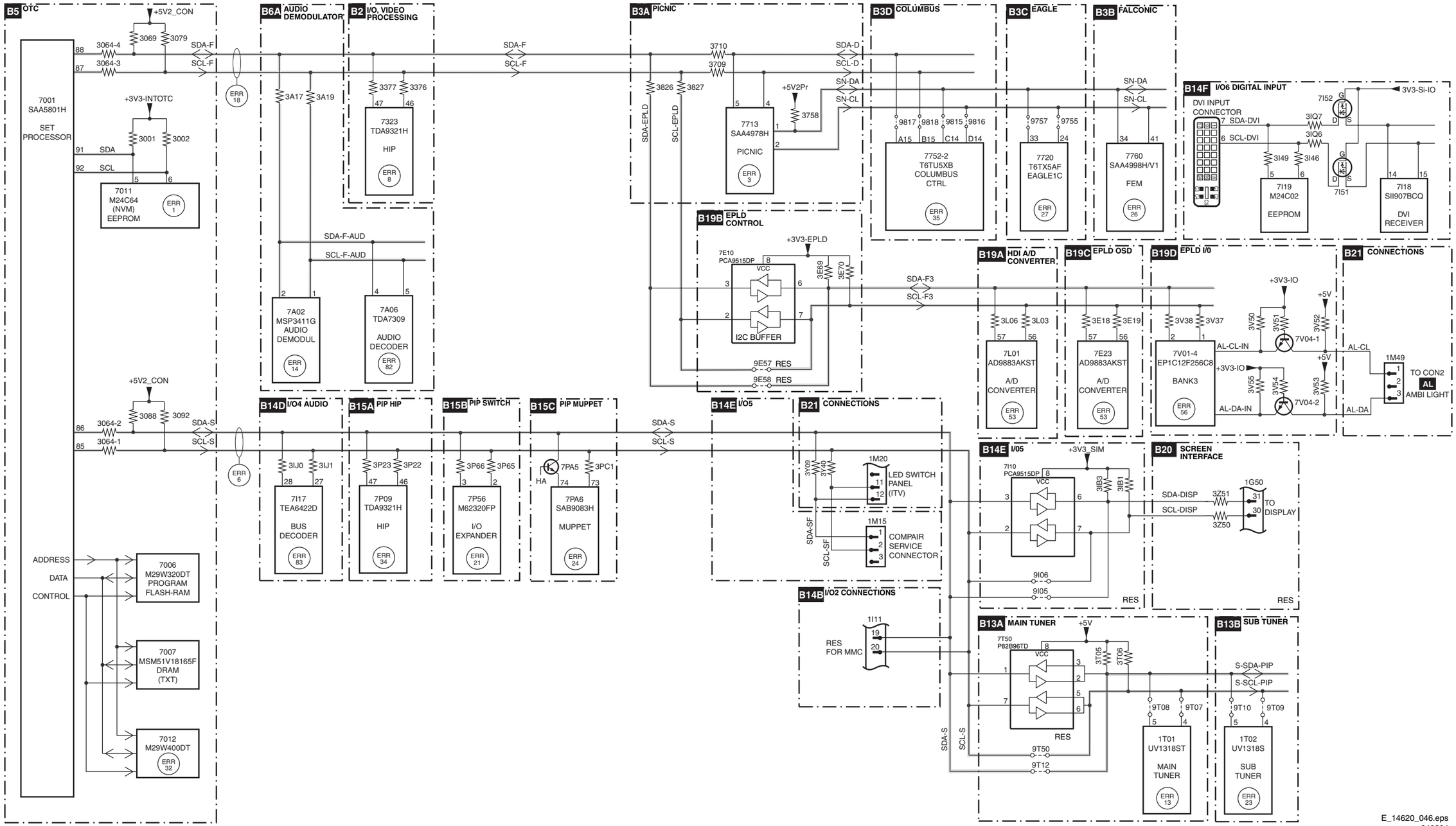
BLOCK DIAGRAM CONTROLS



E_14620_045.eps
260405

I²C IC's overview

IIC



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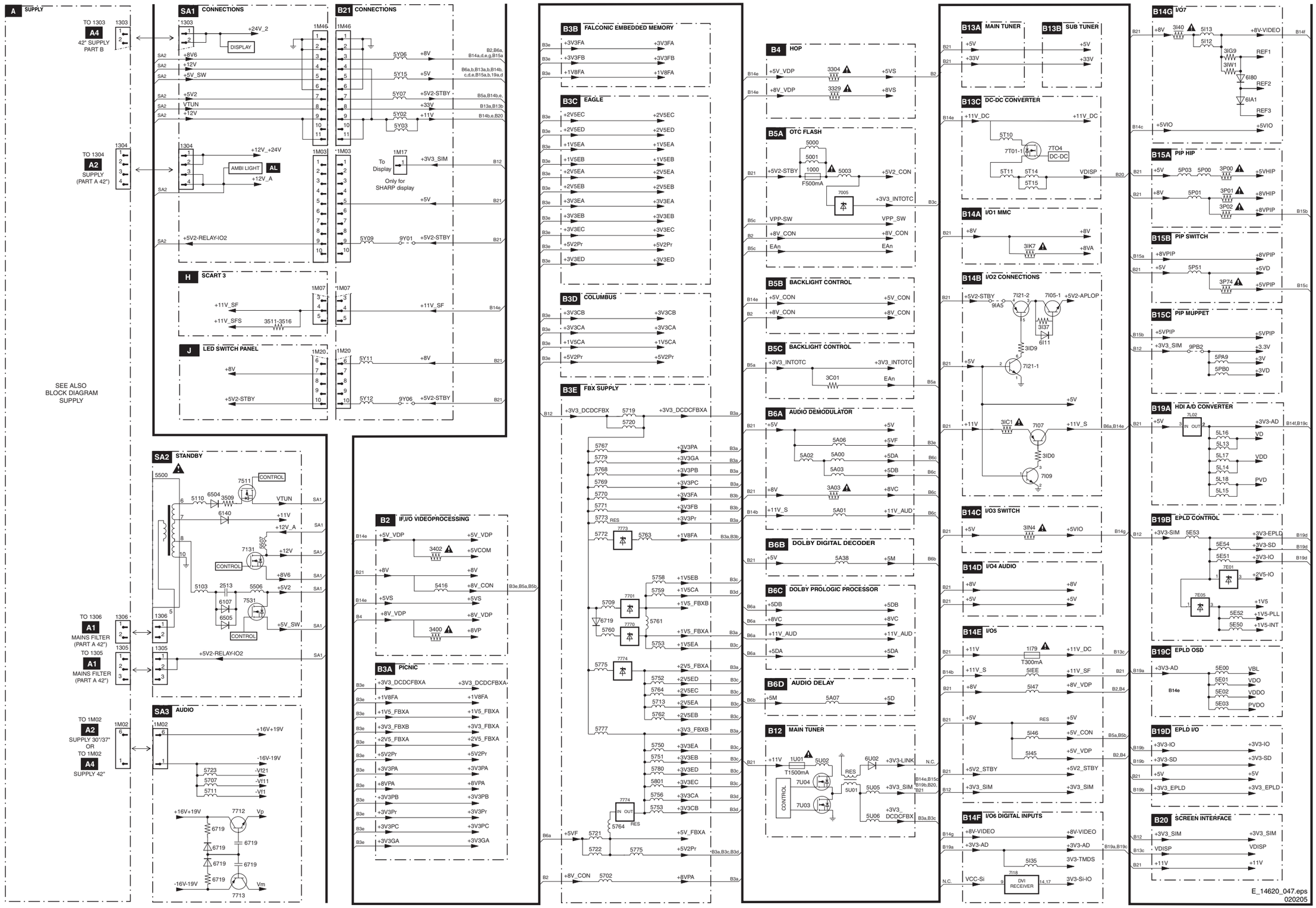
240804

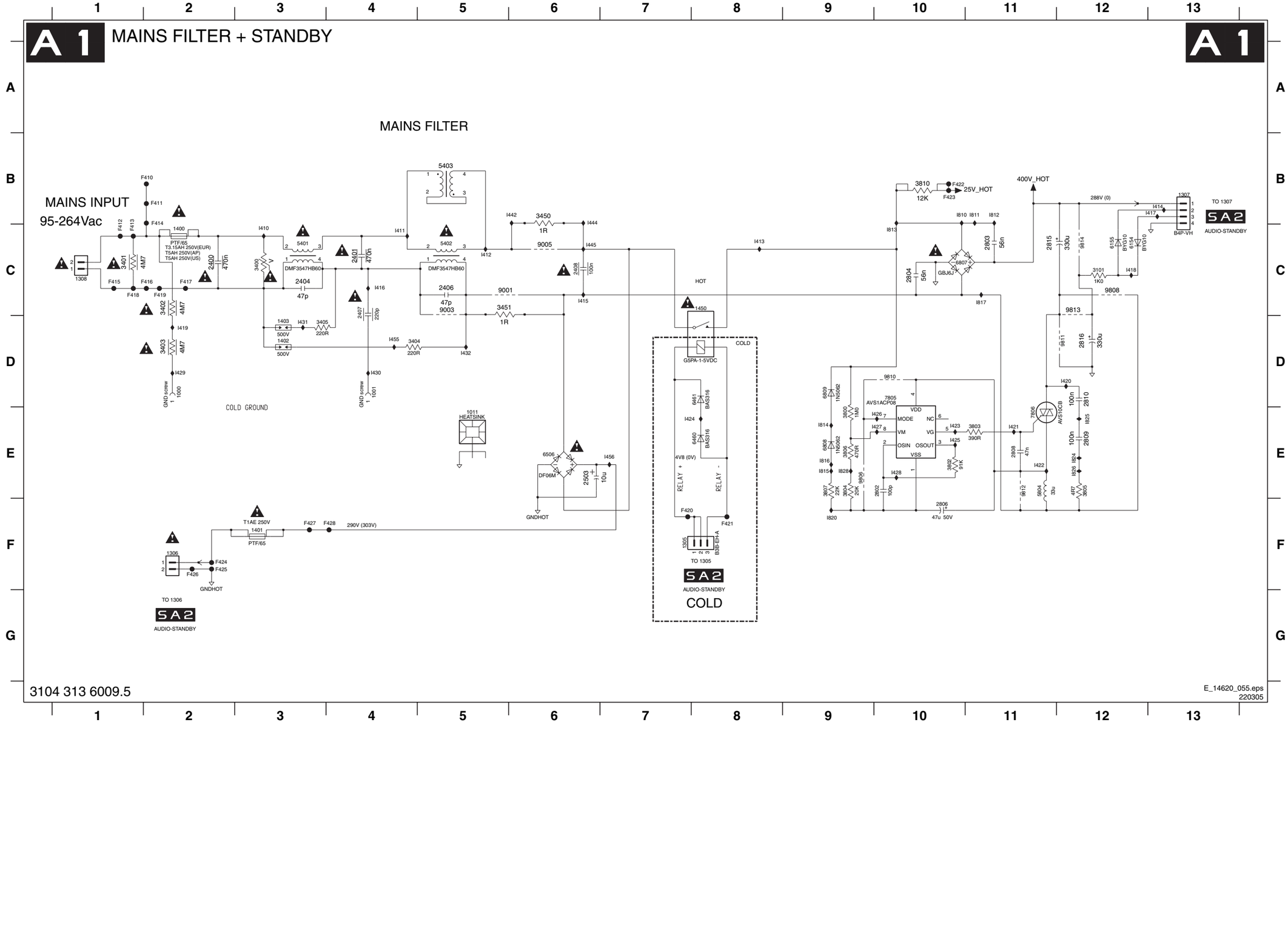
Supply Lines Overview

SUPPLY LINES OVERVIEW



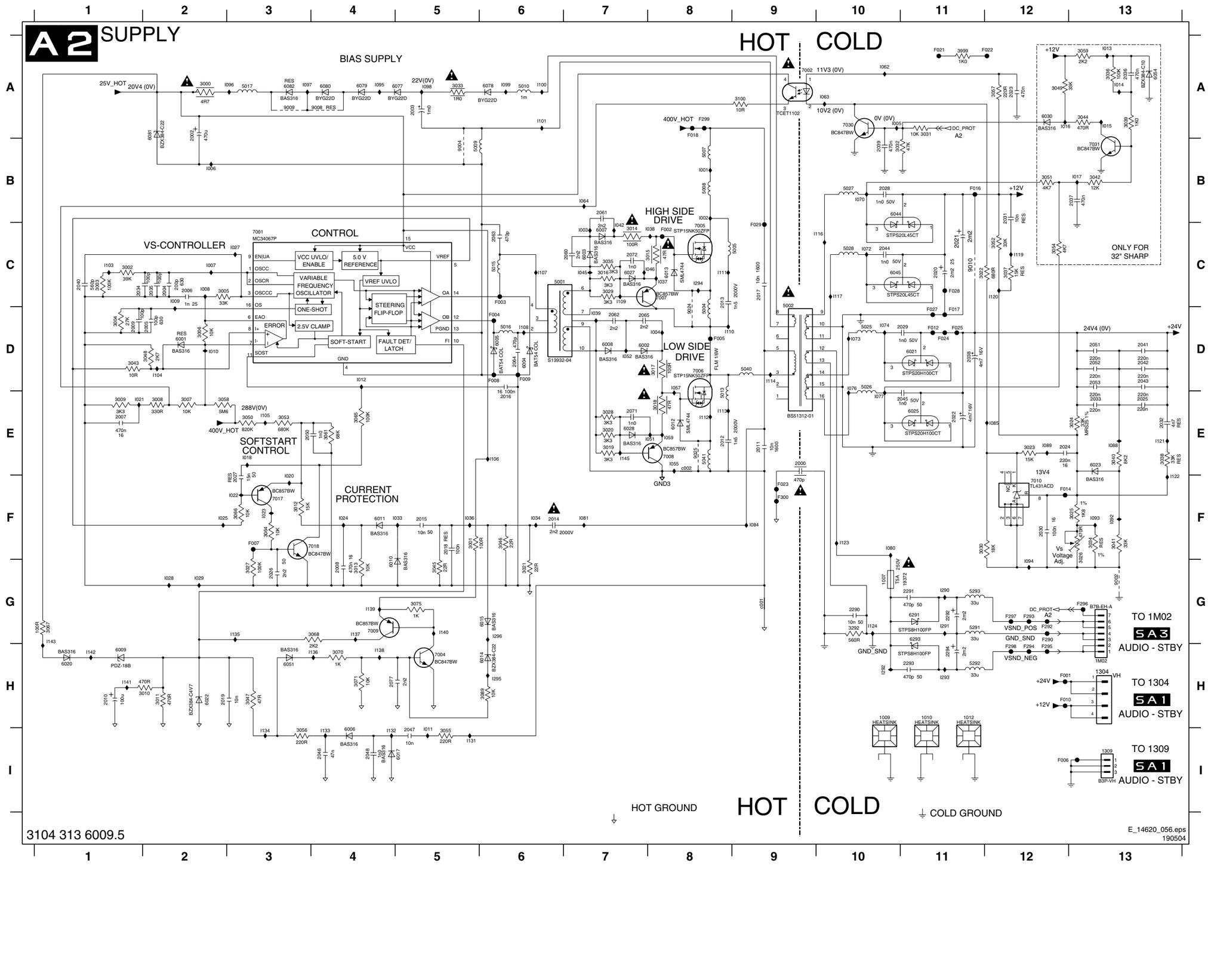
7. Circuit Diagrams and PWB Layouts

PSU (30-32"): Mains Filter and Standby



1000 D2
1001 D4
1011 E5
1305 F7
1306 F2
1307 B13
1308 C1
1400 C2
1401 F3
1402 D3
1403 D3
1450 C8
2400 C2
2401 C4
2404 C3
2406 C5
2407 C4
2408 C6
2503 E6
2802 E10
2803 C11
2804 C10
2806 F10
2808 E11
2809 E12
2810 D12
2815 C11
2816 D12
3101 C12
3400 C3
3401 C1
3402 C2
3403 D2
3404 D4
3405 D3
3450 B6
3451 C6
3800 E9
3802 E10
3803 E11
3804 E9
3805 E12
3806 E9
3807 E9
3810 B10
5401 C3
5402 C5
5403 B5
5804 E11
6154 C12
6155 C12
6460 E8
6461 D8
6506 E6
6807 C10
6808 E9
6809 D9
7805 D10
7806 E11
9001 C5
9003 C5
9005 C6
9806 E9
9808 C12
9810 D10
9811 D12
9812 E11
9813 C12
9814 C12
F410 B2
F411 B2
F412 C1
F413 C1
F414 C2
F415 C1
F416 C2
F417 C2
F418 C1
F419 C2
F420 F7
F421 F8
F422 B10
F423 B10
F424 F2
F425 F2
F426 F2
F427 F3
F428 F4
I410 C3
I411 C4
I412 C5
I413 C8
I414 B13
I415 C6
I416 C4
I417 B13
I418 C12
I419 D2
I420 D12
I421 E11
I422 E11
I423 E10
I424 E7
I425 E10
I426 E10
I427 E10
I428 E10
I429 D2
I430 D4
I431 D3
I432 D5
I442 B6
I444 B6
I445 C6
I455 D4
I456 E7
I810 B10
I811 B11
I812 B11
I813 C10
I814 E9
I815 E9
I816 E9
I817 C11
I820 F9
I824 E12
I825 E12
I826 E12
I828 E9

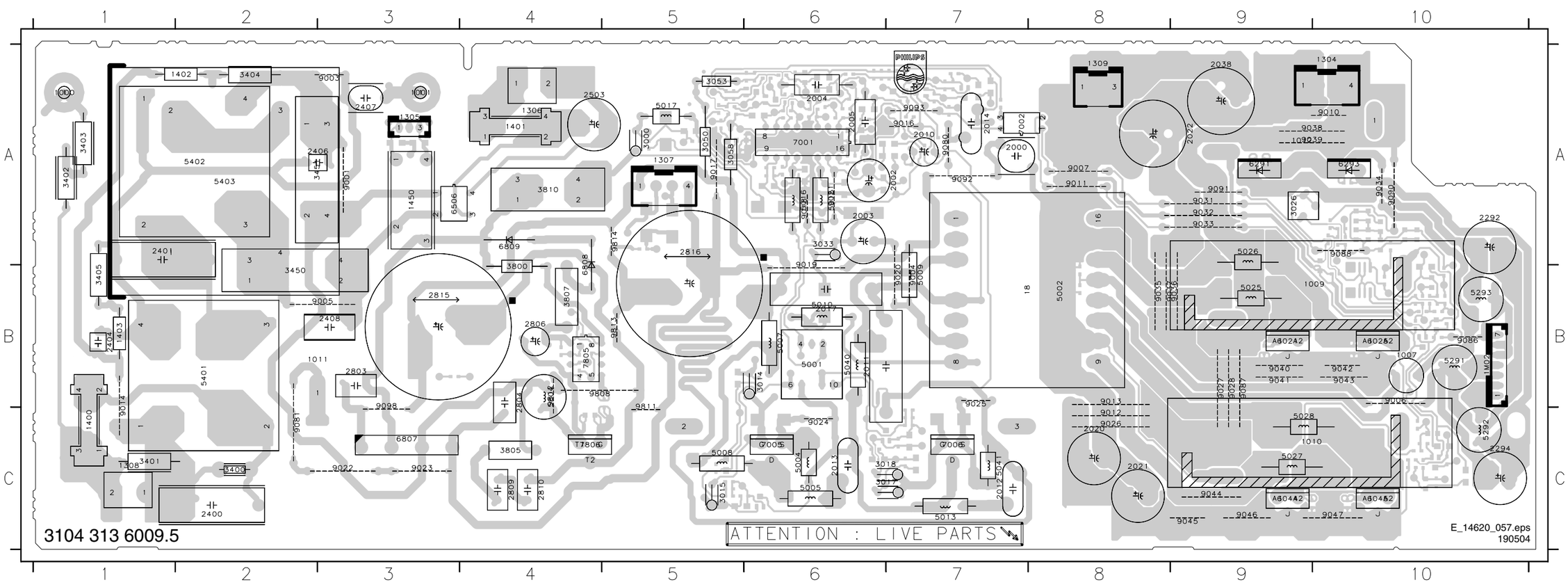
PSU (30-32"): Supply



1007 G10	3043 D1	F010 H12	I137 G4	
1009 H10	3044 A13	F012 D11	I138 H4	
1010 H11	3045 G5	F014 F12	I139 G4	
1012 H11	3046 F6	F016 B11	I140 G5	
1304 H13	3047 H3	F017 D11	I141 H1	
1309 I13	3048 D2	F018 A8	I142 H1	
1M02 H13	3049 A12	F021 A11	I143 G1	
2000 E9	3050 E3	F022 A12	I145 E7	
2002 A2	3051 B12	F023 F9	I290 G11	
2003 A5	3052 C12	F024 D11	I291 G11	
2004 C2	3053 E3	F025 D11	I292 H10	
2005 D2	3054 C12	F027 D11	I293 H11	
2006 C2	3055 I5	F028 C11	I294 C8	
2007 E1	3056 I3	F029 C9	I295 H6	
2008 G4	3057 A12	F290 G12	I296 G6	
2009 D1	3058 E2	F292 G12	c001 G9	
2010 H1	3059 A13	F293 G12	c002 E8	
2011 E9	3061 E4	F294 H12		
2012 E8	3064 F3	F295 H12		
2013 C8	3065 E4	F296 G13		
2014 F6	3066 F3	F297 G12		
2015 F5	3067 G1	F298 H12		
2016 E6	3068 G4	F299 A8		
2017 C9	3070 H4	F300 F9		
2018 F5	3071 H4	I001 B8		
2019 H2	3075 G5	I002 B8		
2020 C11	3089 H6	I003 C7		
2021 C11	3100 A9	I004 D8		
2022 E11	3292 G10	I005 A10		
2023 A12	3999 A11	I006 B2		
2024 E12	5001 C6	I007 C2		
2025 E13	5002 D9	I008 C2		
2026 G3	5004 D8	I009 C2		
2027 F3	5005 C9	I010 D2		
2028 B10	5007 B8	I011 I5		
2029 D11	5008 B8	I012 D4		
2030 F12	5009 B5	I013 A13		
2031 B12	5010 A6	I014 A13		
2032 E13	5013 E8	I015 A13		
2033 E13	5015 C6	I016 A12		
2034 C1	5016 D6	I017 B13		
2035 C2	5017 A3	I018 E3		
2036 A13	5025 D10	I020 F3		
2037 B13	5026 D10	I021 E1		
2038 D11	5027 B10	I022 F3		
2039 B10	5028 C10	I023 F3		
2040 C1	5040 D9	I024 F4		
2041 D13	5041 E8	I025 F2		
2042 D13	5291 G11	I027 C3		
2043 D13	5292 H11	I028 G2		
2044 C10	5293 G11	I029 G2		
2045 E11	6001 D2	I033 F5		
2046 I4	6002 D7	I034 F6		
2047 I5	6003 C7	I036 F5		
2048 I4	6004 D6	I037 C8		
2050 E3	6005 D6	I038 C8		
2051 D13	6006 I4	I039 D7		
2052 D13	6007 C7	I042 C7		
2053 D13	6008 D7	I045 C7		
2060 C7	6009 H1	I046 C8		
2061 B7	6010 G4	I051 E8		
2062 D7	6011 F4	I052 D7		
2063 C6	6012 E8	I055 E8		
2064 D6	6013 C8	I057 D8		
2065 D7	6014 H6	I059 E8		
2071 E7	6015 G6	I062 A10		
2072 C7	6017 I5	I063 A10		
2077 H4	6020 H1	I064 B7		
2290 G10	6021 D11	I070 B10		
2291 G11	6022 H2	I072 C10		
2292 G11	6023 E13	I073 D10		
2293 H11	6025 E11	I074 D10		
2294 H11	6027 C7	I076 D10		
3000 A2	6028 E7	I077 E10		
3001 F5	6030 A12	I080 F10		
3002 C1	6044 B10	I081 F7		
3003 C1	6045 C10	I084 F9		
3004 D1	6051 H3	I085 E12		
3005 C2	6054 A13	I088 E13		
3006 D2	6077 A5	I089 E12		
3007 E2	6078 A6	I092 F13		
3008 E2	6079 A4	I093 F13		
3009 E1	6080 A4	I094 G12		
3010 H2	6081 A2	I095 A4		
3011 H2	6082 A3	I096 A3		
3012 F3	6291 G11	I097 A3		
3013 G4	6293 G11	I098 A5		
3014 C7	7001 C3	I099 A6		
3015 C8	7002 A9	I100 A6		
3016 C7	7004 H5	I101 A6		
3017 D8	7005 C8	I103 C1		
3018 E8	7006 D8	I104 D2		
3019 E7	7007 C8	I105 E3		
3020 E7	7008 E8	I106 E6		
3021 G6	7009 G4	I107 C6		
3022 C11	7010 F12	I108 D6		
3023 E12	7017 F3	I109 C7		
3024 E13	7018 F3	I110 D8		
3025 F13	7030 A10	I111 C8		
3026 G13	7031 B13	I112 E8		
3027 G3	9002 G13	I113 E8		
3028 E7	9004 B5	I114 D9		
3029 C7	9008 A4	I116 C10		
3030 F11	9009 A3	I117 C10		
3031 A11	9010 C11	I119 C12		
3032 B10	9024 D8	I120 C12		
3033 A5	9025 E8	I121 E13		
3034 F13	F001 H12	I122 F13		
3035 C7	F002 C8	I123 F10		
3036 A13	F003 C6	I124 G10		
3037 C12	F004 D6	I131 I5		
3038 E13	F005 D8	I132 I4		
3039 A13	F006 I12	I133 I4		
3040 E13	F007 F3	I134 I3		
3041 F13	F008 D6	I135 G3		
3042 B13	F009 D6	I136 H4		

Layout PSU (30-32") (Top Side)

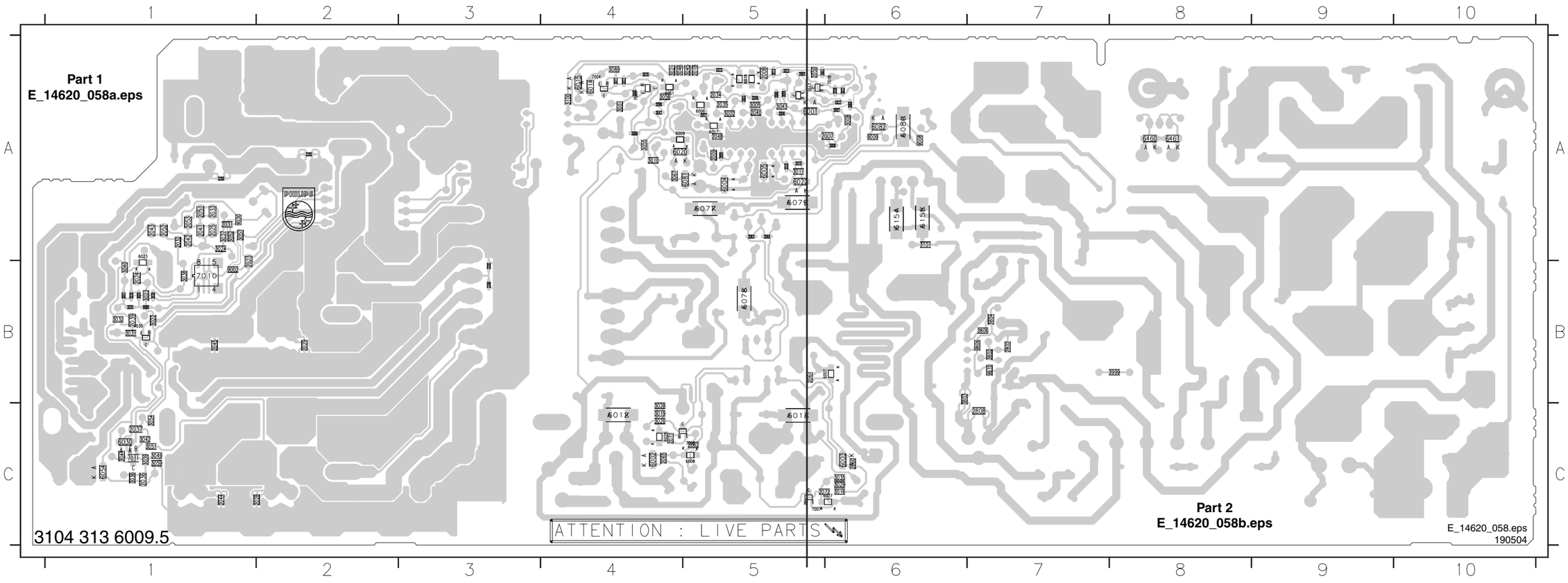
1000 A1	1304 A10	1401 A4	2003 A6	2014 A7	2294 C10	2503 A4	2816 A5	3033 A6	3403 A1	3807 B4	5008 C5	5025 B9	5292 C10	6025 B10	6808 A4	7806 C4	9010 A10	9018 A6	9025 B7	9034 A10	9041 B9	9080 A7	9092 A7	9814 A5
1001 A3	1305 A3	1402 A2	2004 A6	2017 B6	2400 C2	2803 B3	3000 A5	3050 A5	3404 A2	3810 A4	5009 B7	5026 A9	5293 B10	6044 C10	6809 A4	9001 A3	9011 A8	9019 A6	9026 C8	9035 B8	9042 B10	9081 C2	9093 A7	
1007 B10	1306 A4	1403 B1	2005 A6	2020 C8	2401 B1	2804 B4	3014 B6	3053 A5	3405 B1	5001 B6	5010 B6	5027 C9	5401 B2	6045 C10	7001 A6	9003 A3	9012 C8	9020 B7	9027 B9	9036 B9	9043 B10	9086 B10	9098 B3	
1009 B9	1307 A5	1450 A3	2010 A7	2021 C8	2404 B1	2806 B4	3015 C5	3058 A5	3450 A2	5002 A7	5013 C7	5028 C9	5402 A1	6291 A9	7002 A8	9004 A7	9013 B8	9021 A6	9028 B9	9037 B8	9044 C9	9087 B9	9808 B5	
1010 C9	1308 C1	1M02 B10	2011 B7	2022 A8	2406 A3	2809 C4	3017 C7	3400 C2	3451 A3	5004 C6	5015 A6	5040 B6	5403 A3	6293 A10	7005 C6	9005 B3	9014 B1	9022 C3	9031 A9	9038 A9	9045 C9	9088 A10	9811 B5	
1011 C3	1309 A8	2000 A7	2012 C7	2038 A9	2407 A3	2810 C4	3018 C7	3401 C2	3800 A4	5005 C6	5016 A6	5041 C7	5804 B4	6506 A4	7006 C7	9006 C10	9016 A7	9023 C3	9032 A9	9039 A9	9046 C9	9090 A10	9812 B4	
1012 A9	1400 C1	2002 A7	2013 C6	2292 A10	2408 B3	2815 A3	3026 A9	3402 A1	3805 C4	5007 B6	5017 A5	5291 B10	6021 B9	6807 C3	7805 B4	9007 A8	9017 A5	9024 C6	9033 A9	9040 B9	9047 C10	9091 A9	9813 B5	



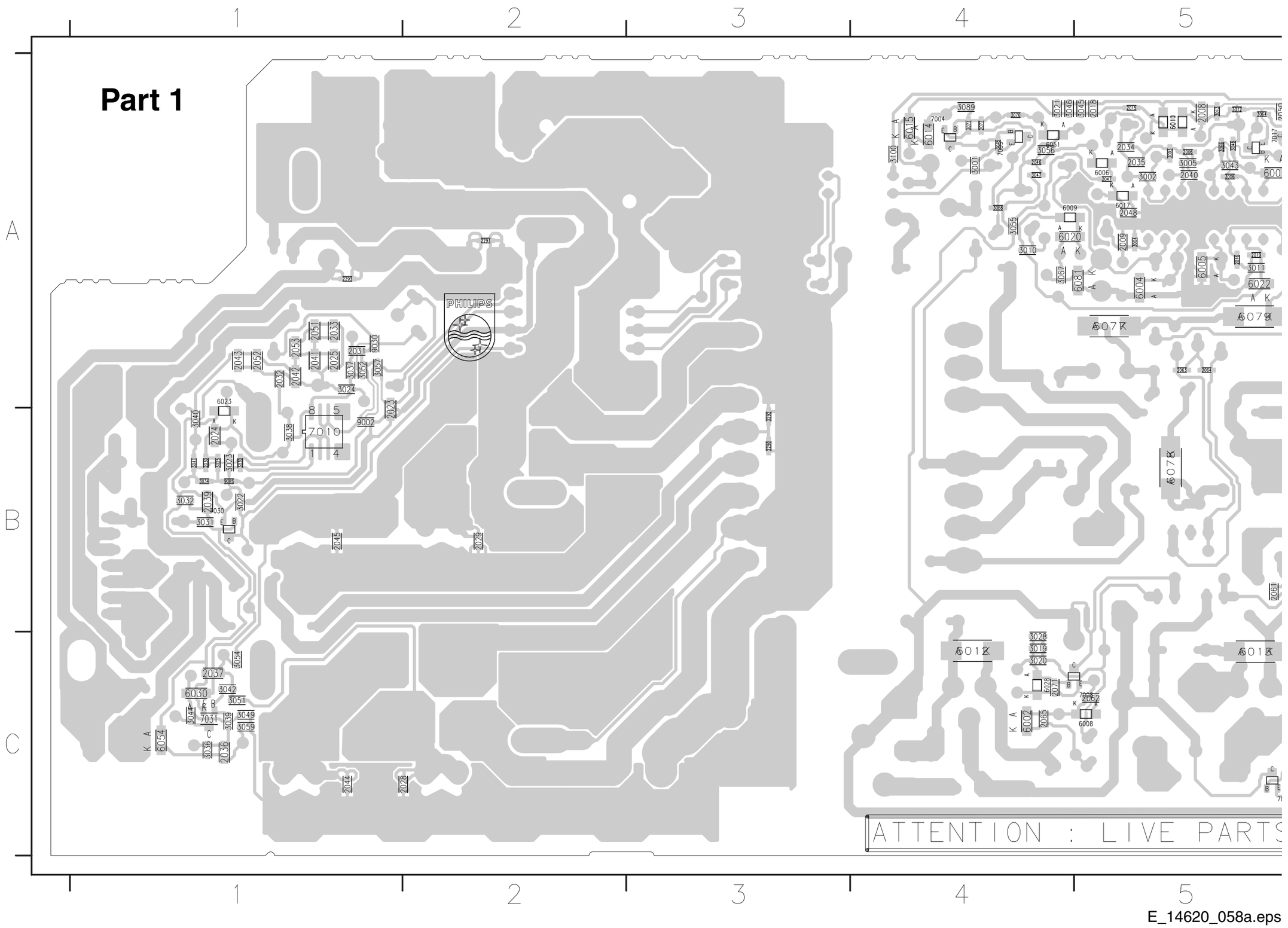
3104 313 6009.5

Layout PSU (30-32") (Overview Bottom Side)

2006 A5 2018 A5 2027 A6 2033 A1 2040 A5 2046 A4 2053 A1 2065 C4 2293 A1 3004 A5 3010 A4 3020 C4 3027 A6 3034 B1 3040 B1 3046 A4 3054 C1 3064 A5 3071 A4 3802 B7 6002 C4 6008 C5 6014 A4 6027 C6 6078 B5 6155 A6 7009 A4 9002 B1 9810 B7
2007 A6 2019 A5 2028 C2 2034 A5 2041 A1 2047 A5 2060 C6 2071 C4 2802 B7 3005 A5 3011 A5 3021 A4 3028 C4 3035 C6 3041 B1 3047 A4 3055 A4 3065 A6 3075 A4 3803 B6 6003 C6 6009 A4 6015 A4 6028 C4 6079 A5 6460 A8 7010 A1 9008 A6
2008 A5 2023 B1 2029 B2 2035 A5 2042 A1 2048 A5 2061 B5 2072 C5 2808 C7 3006 A5 3012 A5 3022 B1 3029 C6 3036 C1 3042 C1 3048 A5 3056 A4 3066 A5 3089 A4 3804 B7 6004 A5 6010 A5 6017 A5 6030 C1 6080 A6 6461 A8 7017 A5 9009 A6
2009 A5 2024 B1 2030 B1 2036 C1 2043 A1 2050 A5 2062 C5 2077 A4 3001 A4 3007 A6 3013 A5 3023 B1 3030 B1 3037 A1 3043 A5 3049 C1 3057 A1 3067 A4 3100 A4 3806 B7 6005 A5 6011 A5 6020 A4 6051 A4 6081 A4 7004 A4 7018 A6 9030 A1
2015 A5 2025 A1 2031 A1 2037 C1 2044 C1 2051 A1 2063 A5 2290 B3 3002 A5 3008 A6 3016 C6 3024 A1 3031 B1 3038 B1 3044 C1 3051 C1 3059 C1 3068 A4 3101 A6 3999 B8 6006 A5 6012 B4 6022 A5 6054 C1 6082 A6 7007 C5 7030 B1 9085 B1
2016 A5 2026 A6 2032 A1 2039 B1 2045 B1 2052 A1 2064 A5 2291 A2 3003 A5 3009 A6 3019 C4 3025 B1 3032 B1 3039 C1 3045 A5 3052 A1 3061 A5 3070 A4 3292 B3 6001 A5 6007 B6 6013 C5 6023 A1 6077 A5 6154 A6 7008 C5 7031 C1 9806 B7



Layout PSU (30-32") (Part 1 Bottom Side)



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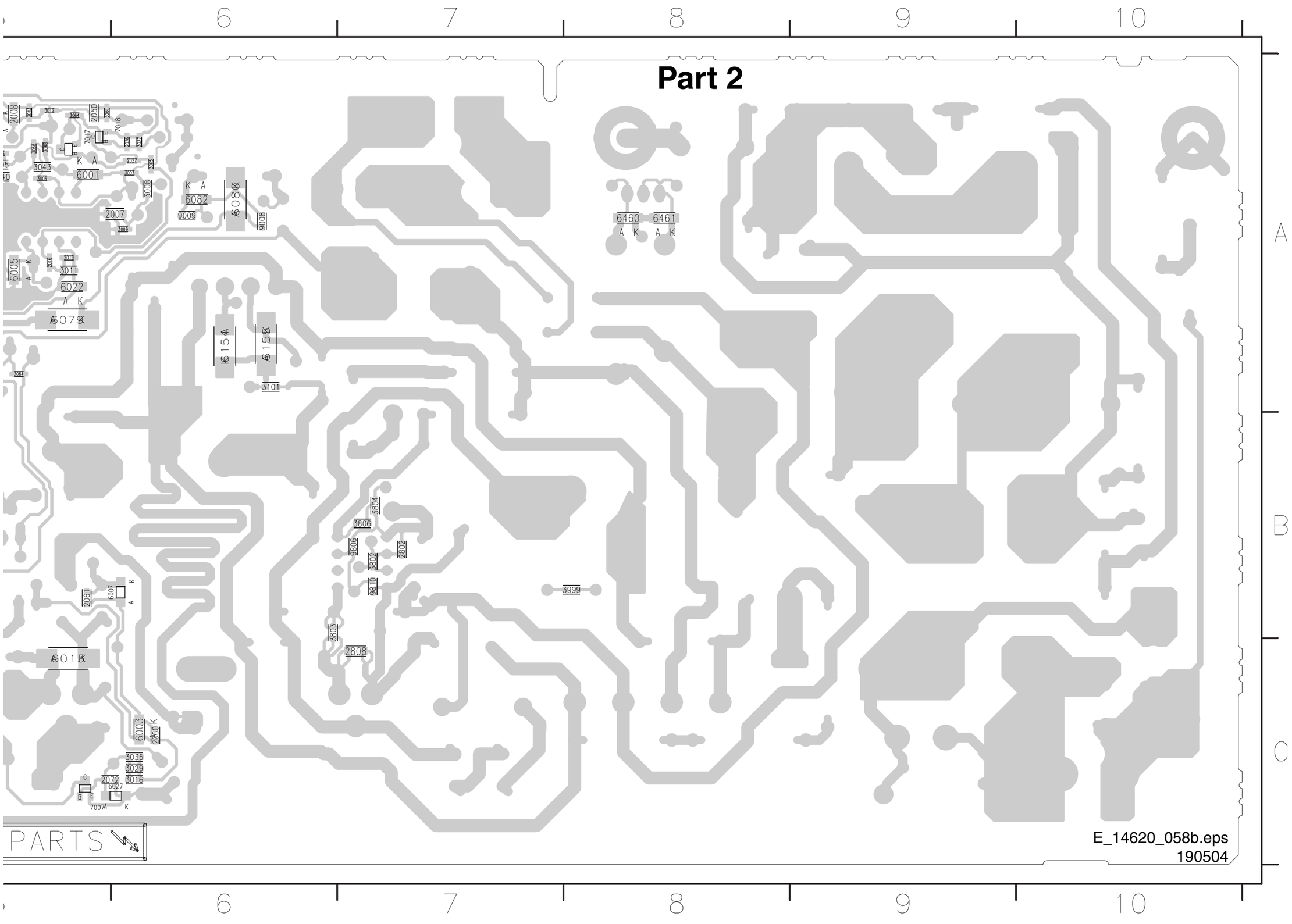
Layout PSU (30-32") (Part 2 Bottom Side)



PSU (37"): Mains Filter and Standby

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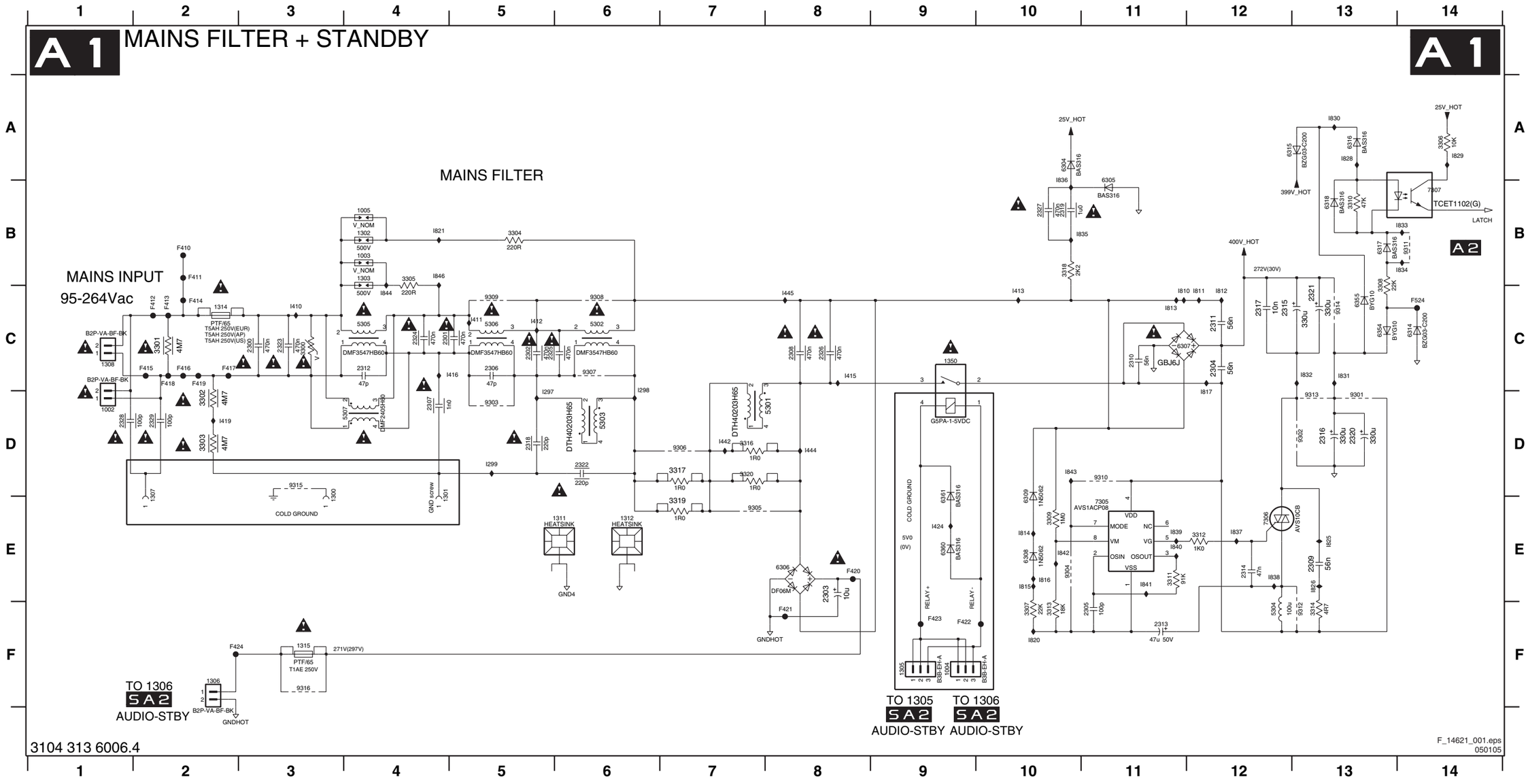
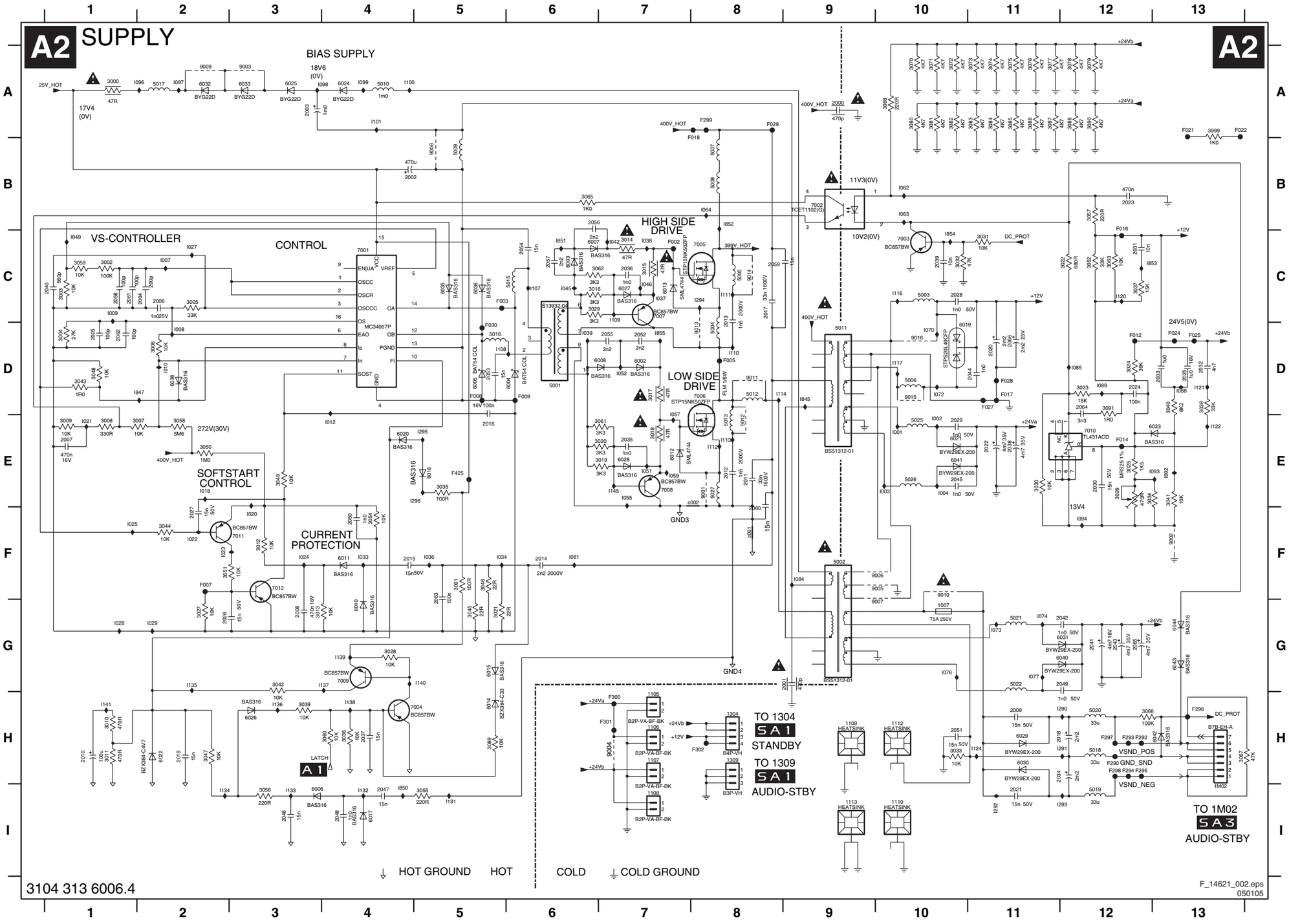
1004 F9	1305 F9	1312 E6	2302 C5	2308 C8	2314 E12	2320 D13	2326 C8	3302 D2	3308 B13	3314 F13	5301 D8	5307 D4	6309 D10	6354 C13	7307 B14	9306 D7	9312 F13	F411 B2	F417 C2	F423 F9	I410 C3	I419 D2	I811 C12	I817 D12	I829 A14	I835 B11	I841 E11
1300 D3	1306 F2	1314 C2	2303 E8	2309 E13	2315 C12	2321 C13	2327 B10	3303 D2	3309 E10	3316 D7	5302 C6	6304 A10	6314 C14	6355 C13	9301 D13	9307 C6	9313 D13	F412 C2	F418 C2	F424 F2	I411 C5	I424 E9	I812 C12	I820 F10	I830 A13	I836 A10	I842 E10
1301 D4	1307 D2	1315 F3	2304 C12	2310 C11	2316 D13	2322 D6	2328 D1	3304 B5	3310 B13	3317 D7	5303 D6	6305 B11	6315 A12	6360 E9	9302 D13	9308 C6	9314 C13	F413 C2	F419 C2	F524 C14	I412 C5	I442 D7	I813 C11	I821 B4	I831 C13	I837 E12	I843 D10
1302 B4	1308 C1	1350 C9	2305 F11	2311 C12	2317 C12	2323 C3	2329 D2	3305 B4	3311 E11	3318 B10	5304 F12	6306 E8	6316 A13	6361 D9	9303 D5	9309 C5	9315 D3	F414 C2	F420 E8	I297 D5	I413 C10	I444 D8	I814 E10	I825 E13	I832 C13	I838 E12	I844 C4
1303 B4	1309 B4	2300 C3	2306 C5	2312 C4	2318 D5	2324 C4	3300 C3	3306 A14	3312 E12	3319 E7	5305 C4	6307 C11	6317 B13	7305 E11	9304 E10	9310 D11	9316 F3	F415 C2	F421 F8	I298 C6	I415 C8	I445 C8	I815 E10	I826 E13	I833 B14	I839 E11	I846 B4



PSU (37"): Supply



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1105 H7	3035 E5	6041 E10	I094 F12
1106 H7	3036 H4	6042 H13	I096 A2
1107 H7	3037 C12	6043 G13	I097 A2
1108 I7	3038 D13	6044 G13	I098 A4
1109 H9	3039 H3	7001 C4	I099 A4
1110 I10	3040 D13	7002 B9	I100 A4
1112 H10	3041 E13	7003 C10	I101 A4
1113 I9	3042 G3	7004 H4	I107 C6
1304 H8	3043 D1	7005 C8	I108 D5
1309 H8	3044 F2	7006 D8	I109 C7
1M02 I13	3045 G5	7007 C7	I110 D8
2000 A9	3046 F5	7008 E7	I111 C8
2001 G9	3047 H2	7009 G4	I112 E8
2002 B4	3048 D1	7010 E12	I113 E8
2003 A3	3049 E3	7011 F3	I114 D8
2004 C2	3050 E2	7012 F3	I116 C10
2005 D1	3051 F2	9001 E8	I117 D10
2006 C2	3052 C12	9002 F13	I120 C12
2007 E1	3054 F4	9003 A3	I121 D13
2008 G3	3055 I5	9004 H7	I122 E13
2009 H11	3056 I3	9005 F10	I124 H11
2010 H1	3057 B12	9006 F10	I131 I5
2011 E8	3058 E2	9007 G10	I132 I4
2012 E8	3059 C1	9008 B5	I133 I3
2013 C8	3060 H4	9009 A2	I134 I2
2014 F6	3061 E7	9010 F10	I135 G2
2015 F4	3062 C6	9011 D8	I136 H3
2016 E5	3063 C12	9012 E8	I137 G4
2017 C8	3065 B6	9013 D8	I138 H4
2018 H12	3066 H12	9014 C8	I139 G4
2019 H2	3067 H13	9015 D10	I140 G5
2020 D11	3068 A10	9016 D10	I141 H1
2021 I11	3070 A10	F002 C7	I145 E7
2022 E11	3071 A10	F003 C5	I290 H12
2023 B12	3072 A10	F005 D8	I291 H12
2024 D12	3073 A11	F007 F2	I292 I11
2025 D13	3074 A11	F008 D5	I293 I12
2026 G2	3075 A11	F009 D6	I294 C8
2027 F2	3076 A11	F012 D12	I295 E5
2028 C10	3077 A11	F014 E12	I296 E5
2029 E10	3078 A12	F016 C12	I845 D9
2030 E12	3079 A12	F017 D11	I847 D2
2031 C12	3080 A10	F018 B8	I849 C1
2032 D13	3081 A10	F021 A13	I850 I4
2033 D13	3082 A10	F022 A13	I851 C6
2034 H12	3083 A11	F024 D13	I852 B8
2035 E7	3084 A11	F025 D13	I853 C12
2036 C7	3085 A11	F027 D11	I854 C10
2037 H4	3086 A11	F028 D11	I855 D7
2038 E11	3087 A11	F029 A8	c001 F8
2039 C10	3088 A12	F030 D5	c002 E8
2040 C1	3089 H5	F290 H12	
2041 G12	3090 A12	F292 H12	
2042 G12	3091 D12	F293 H12	
2043 G12	3999 A13	F294 H12	
2044 D11	5001 D6	F295 H12	
2045 E10	5002 F9	F296 H13	
2046 I3	5003 C10	F297 H12	
2047 I4	5004 D8	F298 H12	
2048 I4	5005 C8	F299 A8	
2049 G12	5006 D10	F300 H7	
2050 F4	5007 B8	F301 H7	
2051 H10	5008 B8	F302 H8	
2052 D7	5009 B5	F425 E5	
2053 D5	5010 A4	I001 E10	
2054 C6	5011 D9	I002 E10	
2055 D7	5012 D8	I003 E10	
2056 B6	5013 E8	I004 E10	
2057 C6	5015 C6	I007 C2	
2058 C1	5016 D5	I008 D2	
2059 C8	5017 A2	I009 C1	
2060 E8	5018 H12	I010 D2	
2061 C1	5019 I12	I012 E4	
2062 D1	5020 H12	I018 E2	
2063 F5	5021 G11	I020 F3	
2064 D12	5022 G11	I021 E1	
2065 G12	5025 E10	I022 F2	
2066 D11	5026 E10	I023 F2	
3000 A1	5027 E8	I024 F3	
3001 F5	6002 D7	I025 F1	
3002 C1	6003 C6	I027 C2	
3003 C1	6004 D6	I028 G1	
3004 D1	6005 D5	I029 G2	
3005 C2	6006 I3	I033 F4	
3006 D2	6007 C6	I034 F5	
3007 E2	6008 D7	I036 F5	
3008 E1	6010 G4	I037 C7	
3009 E1	6011 F4	I038 C7	
3010 H1	6012 E7	I039 D6	
3011 H1	6013 C7	I042 C7	
3012 F3	6014 H5	I045 C6	
3013 G3	6015 G5	I046 C7	
3014 C7	6017 I4	I051 E7	
3015 C7	6018 E5	I052 D7	
3016 C6	6019 D10	I055 E7	
3017 D7	6020 E4	I057 D7	
3018 E7	6021 E10	I059 E7	
3019 E7	6022 H2	I062 B10	
3020 E7	6023 E13	I063 B10	
3021 G5	6024 A4	I064 B8	
3022 C12	6025 A3	I070 D10	
3023 D12	6026 H3	I072 D10	
3024 D12	6027 C7	I073 G11	
3025 E12	6028 E7	I074 G11	
3026 E12	6029 H11	I076 G10	
3027 G2	6030 H11	I077 G11	
3028 G4	6031 G11	I081 F6	
3029 C6	6032 A2	I084 F9	
3030 E11	6033 A3	I085 D12	
3031 C11	6035 C5	I088 D13	
3032 C10	6036 C5	I089 D12	
3033 H10	6038 D2	I092 E13	

Layout PSU (37") (Top Side)

1002	E1	1109	B8	1305	A5	1350	A5	2011	B6	2038	B10	2302	B2	2312	D2	2321	B4	3000	E7	3071	E10	3080	B9	3090	C9	3309	B5	5002	D8
1003	E2	1110	C8	1306	A5	1M02	E10	2012	F6	2041	E10	2303	A5	2313	C6	2322	B1	3014	F4	3072	D8	3081	B9	3300	F2	3312	B6	5003	B8
1004	A5	1112	F8	1307	F1	2000	B7	2013	F5	2043	E8	2304	C3	2314	C5	2323	E2	3015	F4	3073	E8	3082	B10	3301	F1	3314	C4	5004	E5
1005	E2	1113	E9	1308	E1	2001	E7	2014	C6	2059	A5	2306	B1	2315	B3	2324	C2	3017	F5	3074	E9	3083	B10	3302	E1	3316	A4	5005	F4
1007	F8	1300	C7	1309	C10	2002	D5	2017	A5	2060	B6	2307	D1	2316	B5	2325	B2	3018	F5	3075	E9	3084	B10	3303	D1	3317	A2	5006	B7
1105	B10	1301	C1	1311	E4	2003	F7	2018	E9	2065	E10	2308	A5	2317	B3	2326	A5	3026	D9	3076	E9	3085	C9	3304	D2	3318	D4	5007	F5
1106	B10	1302	E2	1312	D3	2004	E5	2020	D10	2066	D10	2309	C5	2318	C1	2327	E4	3050	D4	3077	E9	3086	C9	3305	D2	3319	A3	5008	F4
1107	D10	1303	E2	1314	F2	2005	D4	2022	B9	2300	E2	2310	C3	2319	D4	2328	F1	3058	E6	3078	D8	3087	C9	3307	C5	3320	A4	5009	E6
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5011	A7	5021	D8	5305	E1	6041	B9	7305	B5	9010	F7	9303	C1	9315	B7	9507	B6	9516	E5	9525	B2								
5012	F5	5022	C8	5306	C1	6306	B4	7306	D5	9011	F6	9305	A3	9316	A5	9508	B10	9517	E10	9526	D3								
5013	F6	5025	A8	5307	D1	6307	D3	7307	F4	9012	F6	9306	A2	9500	B3	9509	D10	9518	D9	9527	D3								
5015	D5	5026	A8	6019	D9	6308	B5	9001	F6	9013	E5	9307	A1	9501	B4	9510	E7	9519	B6	9529	F1								
5016	D5	5027	E6	6021	B9	6309	B5	9004	B10	9014	F4	9308	A1	9502	B4	9511	E5	9520	B6	9530	D9								
5017	E7	5301	A3	6029	F8	7001	E5	9005	C8	9015	B8	9309	C2	9503	B5	9512	D6	9521	B6										
5018	F10	5302	A1	6030	F9	7002	B7	9006	C8	9016	B8	9312	C5	9504	C4	9513	D5	9522	C10										
5019	F10	5303	A2	6031	E9	7005	F5	9007	C8	9301	C3	9313	C2	9505	C4	9514	E6	9523	E8										
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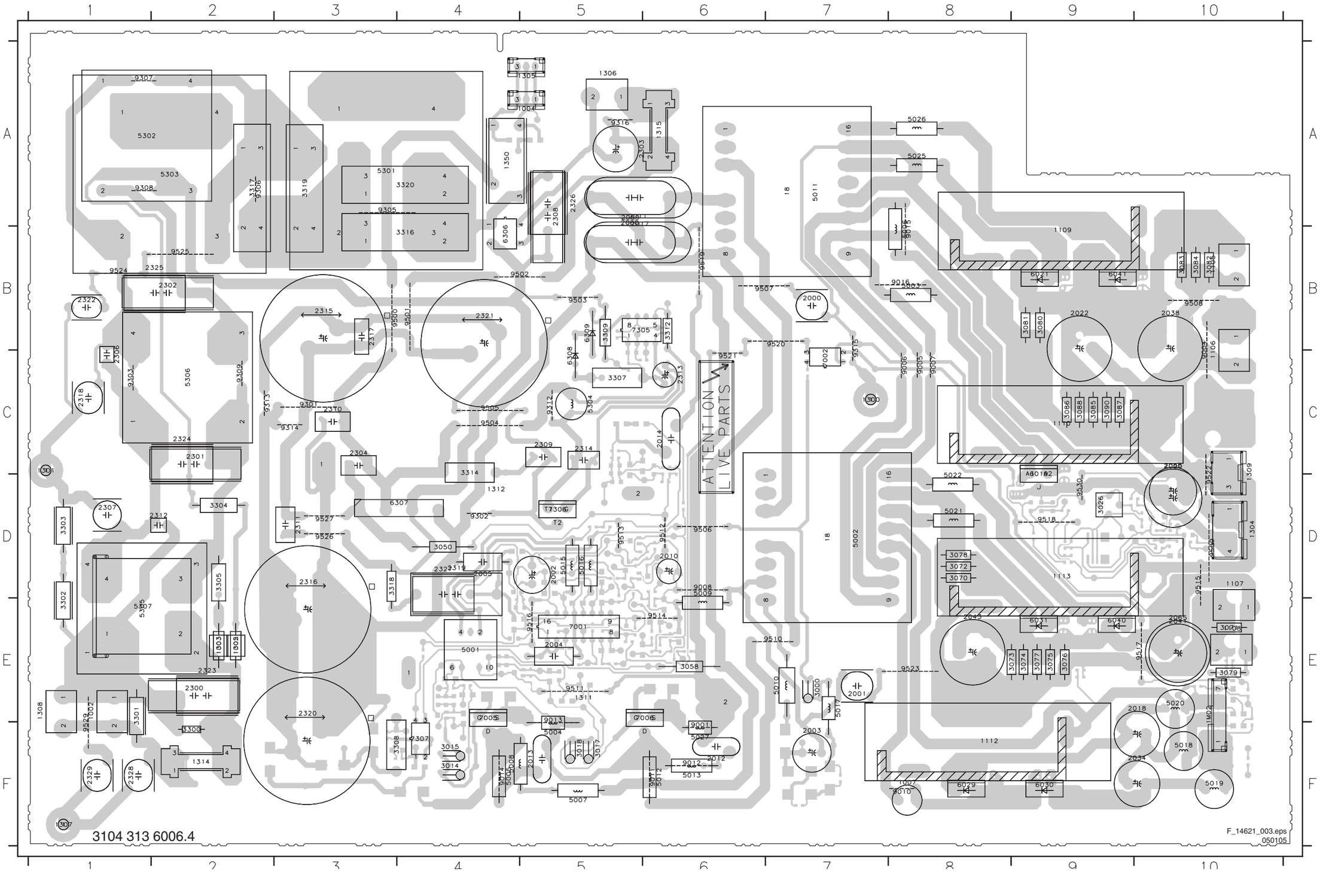

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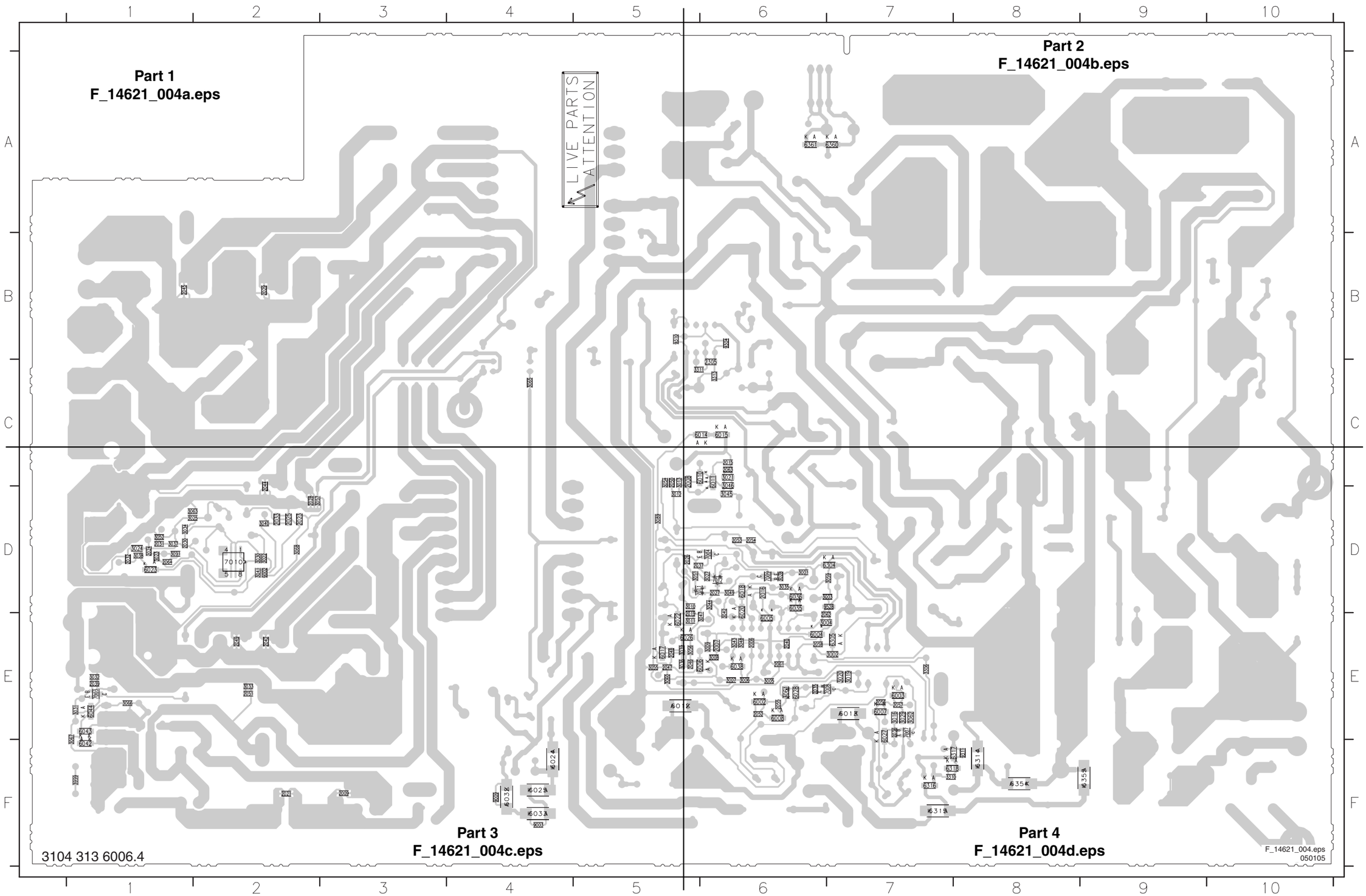
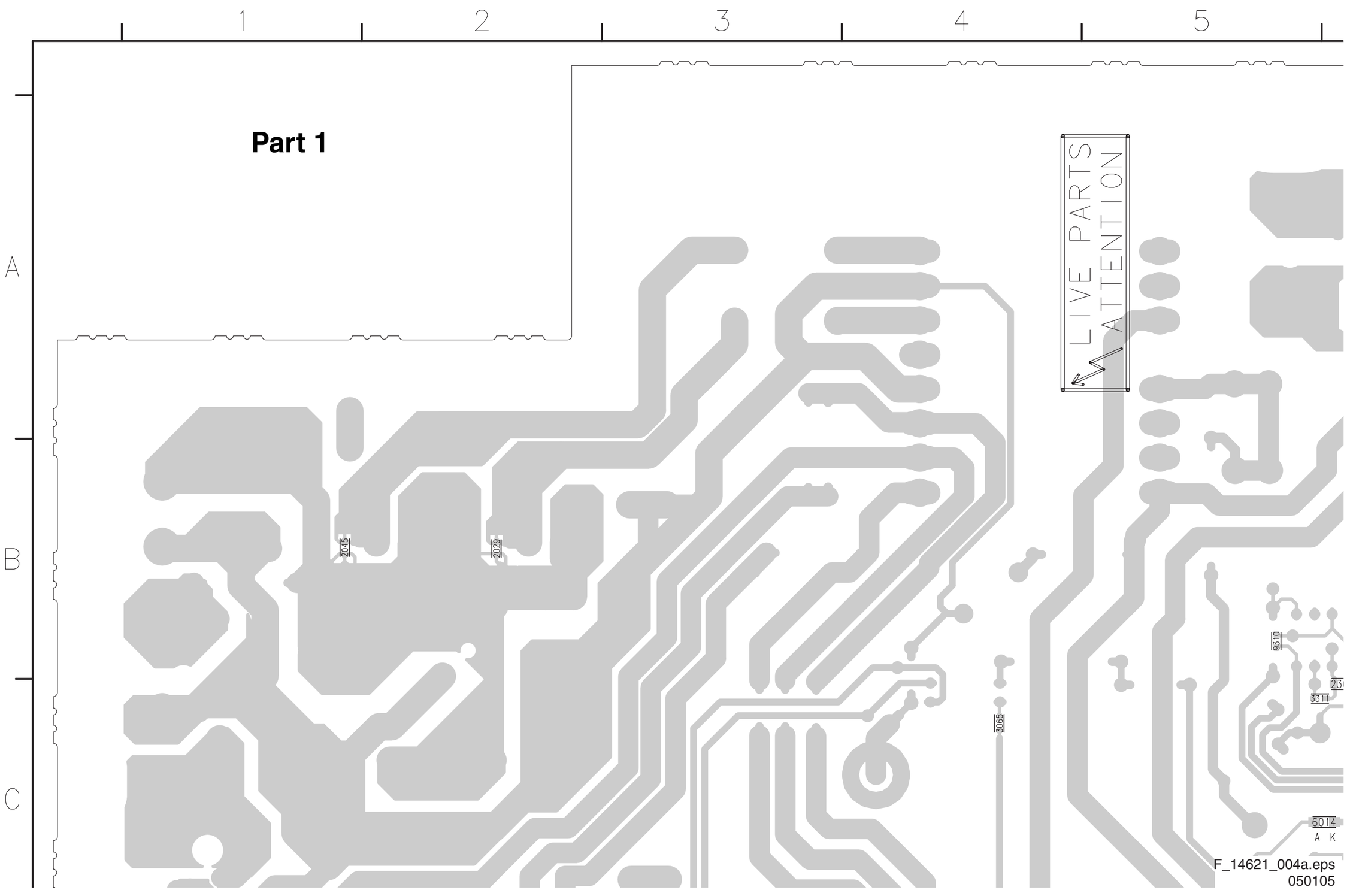
Layout PSU (37") (Overview Bottom Side)

2006 E6	2021 F2	2029 B2	2037 D5	2047 E5	2054 D6	2063 C6	3005 E6	3012 D5	3024 D1	3032 E1	3039 E5	3046 C6	3055 E5	3063 D1	3306 E7	6004 E6	6012 E5	6022 E5	6032 F4	6044 E1	6318 F7	7007 E7	9003 F4
2007 E6	2023 D2	2030 D1	2039 E1	2048 E5	2055 E6	2064 D1	3006 E6	3013 C5	3025 D1	3033 E2	3040 D2	3047 E6	3056 E5	3065 C4	3310 F7	6005 E6	6013 E7	6023 D1	6033 F4	6304 D7	6354 F8	7008 E7	9009 F4
2008 C5	2024 D1	2031 D1	2040 E6	2049 E2	2056 E7	2305 C6	3007 E6	3019 E7	3027 D6	3034 D1	3041 D2	3048 E6	3057 D2	3066 E1	3311 C5	6006 E5	6014 C6	6024 F4	6035 E6	6305 E6	6355 F8	7009 D6	9304 B6
2009 F3	2025 D2	2032 D1	2042 E2	2050 C5	2057 E7	3001 D6	3008 E6	3020 E7	3028 D6	3035 D6	3042 E6	3049 D6	3059 D7	3067 E1	3313 C6	6007 E7	6015 C6	6025 F4	6036 D6	6314 F8	6360 A7	7010 D2	9310 B5
2015 C6	2026 D5	2033 D2	2044 D2	2051 E2	2058 E6	3002 E7	3009 E6	3021 C6	3029 E7	3036 E5	3043 E6	3051 D5	3060 E5	3068 D2	3999 F1	6008 E6	6017 E5	6026 E5	6038 E6	6315 F7	6361 A6	7011 D5	9311 F8
2016 D6	2027 D6	2035 E6	2045 B1	2052 E6	2061 E6	3003 D7	3010 D5	3022 D2	3030 D2	3037 D1	3044 D6	3052 D1	3061 E6	3089 D5	6002 E6	6010 C6	6018 D6	6027 F7	6042 F1	6316 F7	7003 E1	7012 D6	9528 D7
2019 E5	2028 D2	2036 E7	2046 E5	2053 D6	2062 E6	3004 E6	3011 E5	3023 D1	3031 E1	3038 D1	3045 D6	3054 C5	3062 E7	3091 D1	6003 E7	6011 C6	6020 D6	6028 E6	6043 E1	6317 F8	7004 D6	9002 D2	



Layout PSU (37") (Part 1 Bottom Side)



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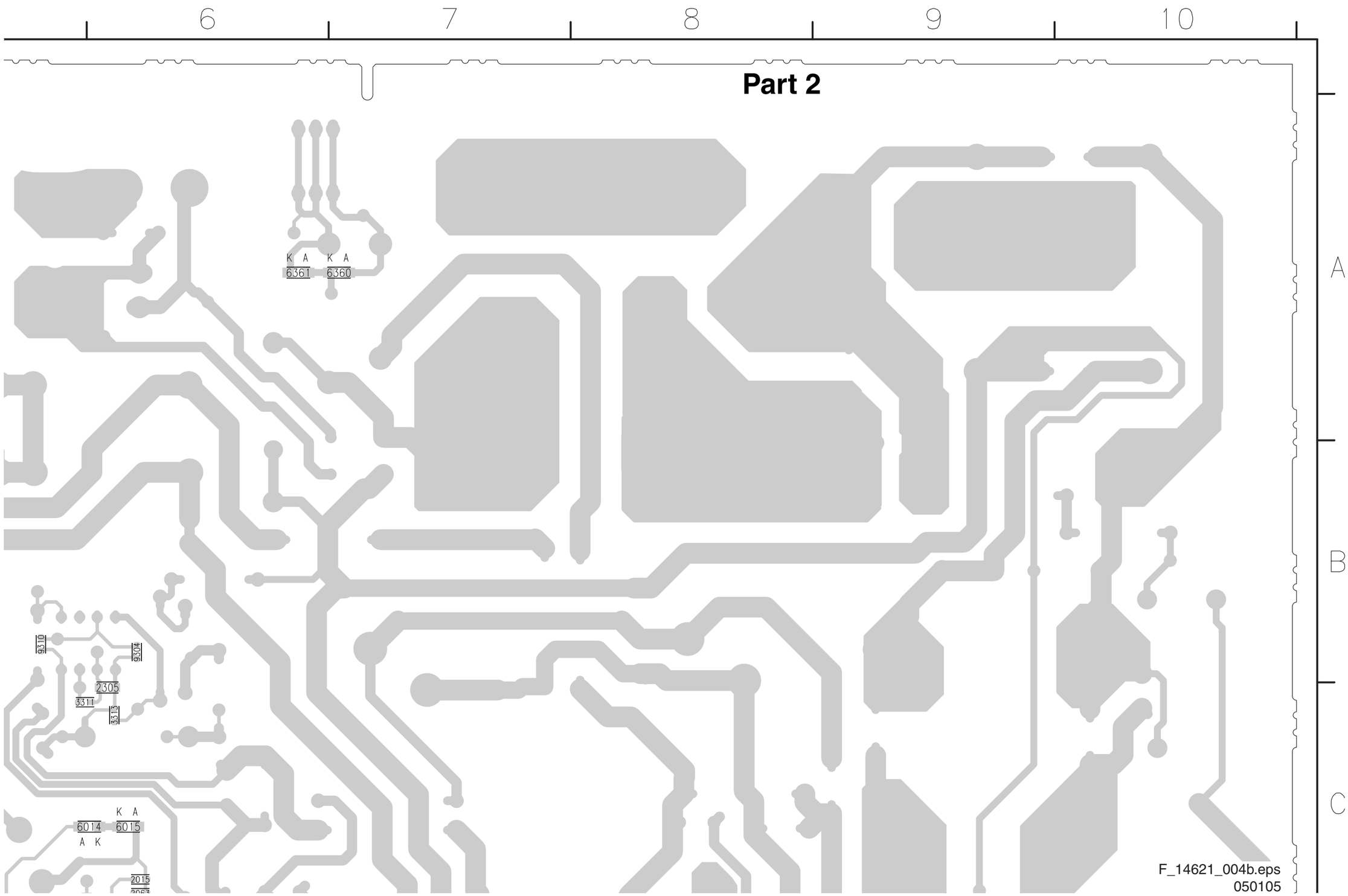
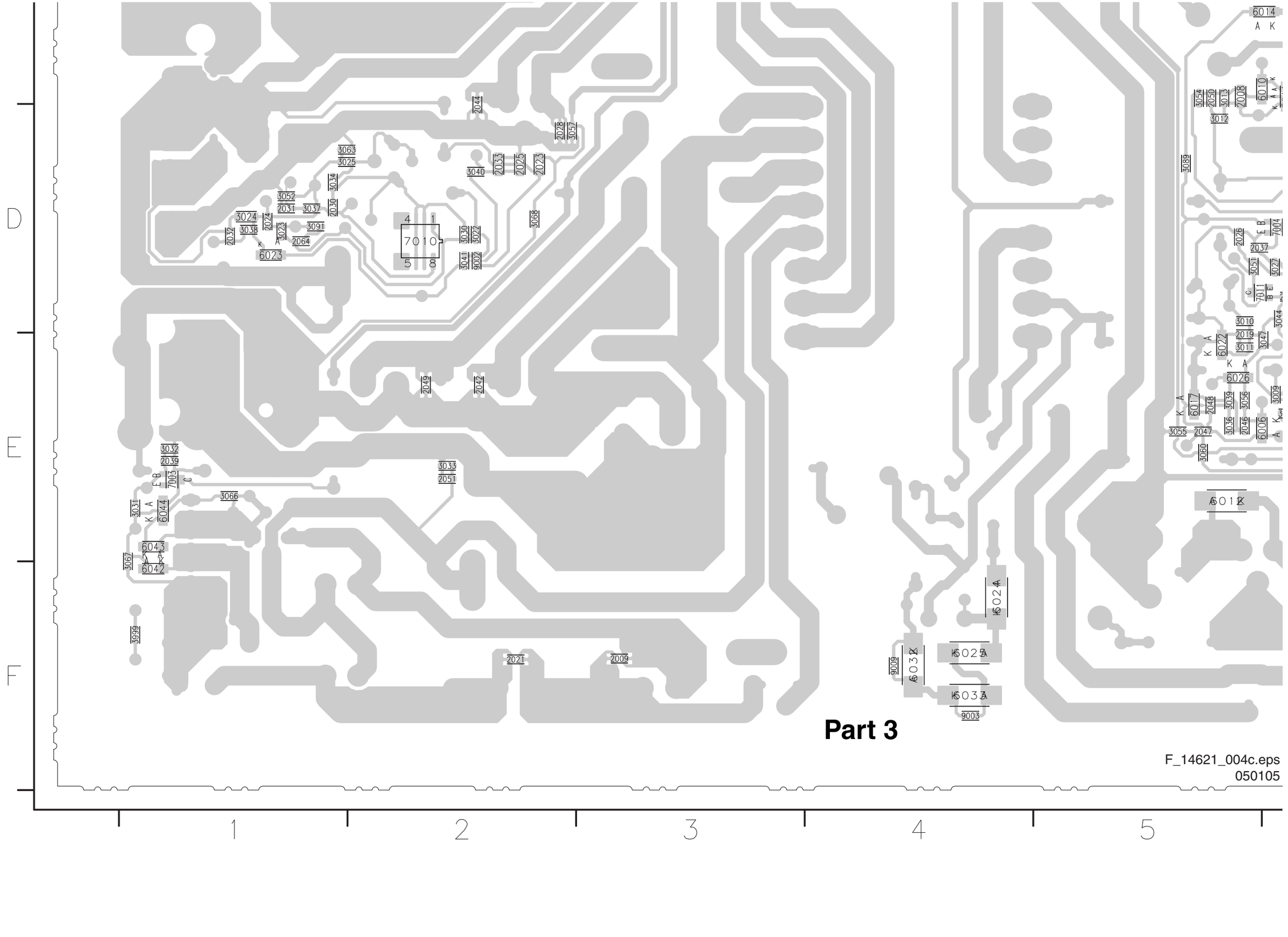
Layout PSU (37") (Part 2 Bottom Side)



Layout PSU (37") (Part 3 Bottom Side)



Part 3

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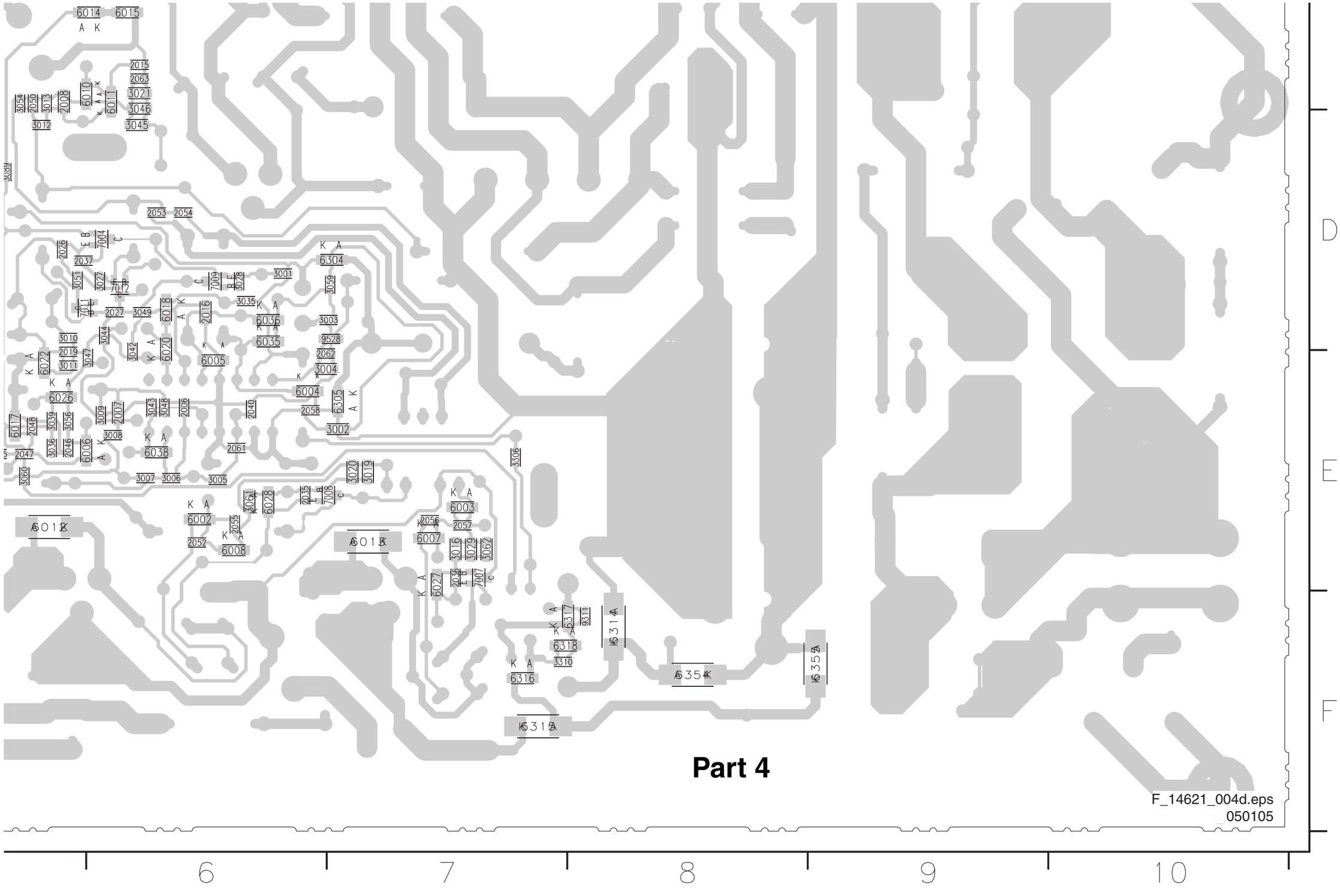
Layout PSU (37") (Part 4 Bottom Side)



Part 4

F_14621_004d.eps
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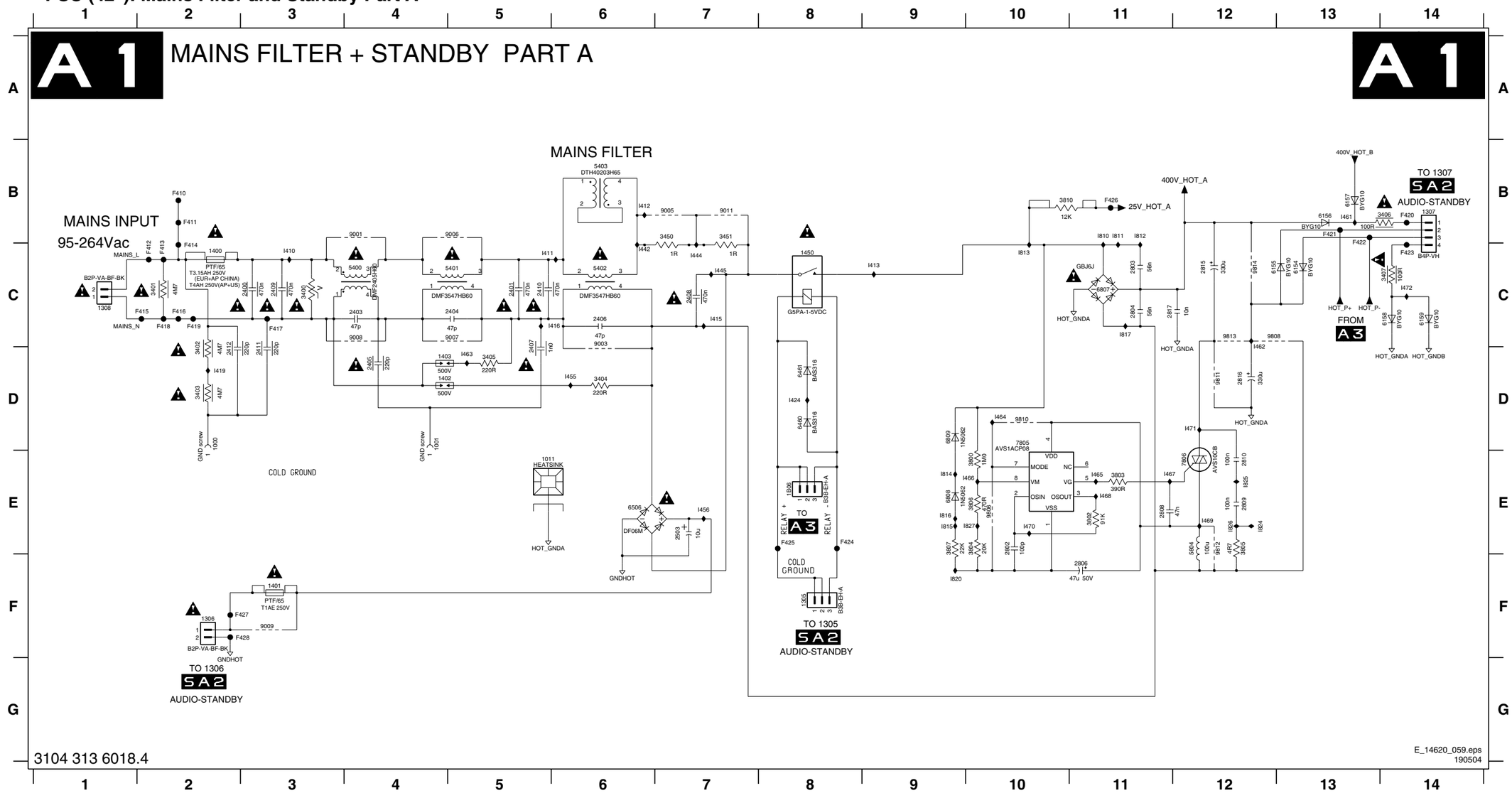
PSU (42"): Mains Filter and Standby Part A

A 1 MAINS FILTER + STANDBY PART A



E_14620_059.eps
190504

3104 313 6018.4

1000 D2
1001 D4
1011 E5
1305 F8
1306 F2
1307 B14
1308 C1
1400 C2
1401 F3
1402 D4
1403 D4
1450 C8
1B06 E8
2400 C3
2401 C5
2403 C4
2404 C5
2405 D4
2406 C6
2407 C5
2408 C7
2409 C3
2410 C5
2411 D3
2412 D2
2503 E7
2802 E10
2803 C11
2804 C11
2806 F11
2808 E11
2809 E12
2810 E12
2815 C12
2816 D12
2817 C11
3400 C3
3401 C2
3402 D2
3403 D2
3404 D6
3405 D5
3406 B14
3407 C14
3450 B7
3451 B7
3800 E10
3802 E11
3803 E11
3804 E10
3805 E12
3806 E10
3807 E9
3810 B10
5400 C4
5401 C5
5402 C6
5403 B6
5804 E12
6154 C13
6155 C12
6156 B13
6157 B13
6158 C14
6159 C14
6460 D8
6461 D8
6506 E6
6807 C11
6808 E9
6809 D9
7805 D10
7806 E12
9001 B4
9003 C6
9005 B7
9006 B5
9007 C5
9008 C4
9009 F3
9011 B7
9806 E10
9808 C12
9810 D10
9811 D12
9812 E12
9813 C12
9814 C12
1011 F410 B2
1305 F411 B2
1306 F412 C2
1307 B14 F413 C2
1308 C1 F414 C2
1400 C2 F415 C2
1401 F3 F416 C2
1402 D4 F417 C3
1403 D4 F418 C2
1450 C8 F419 C2
1B06 E8 F420 B14
2400 C3 F421 B13
2401 C5 F422 C13
2403 C4 F423 C14
2404 C5 F424 E8
2405 D4 F425 E8
2406 C6 F426 B11
2407 C5 F427 F3
2408 C7 F428 F3
2409 C3 I410 C3
2410 C5 I411 C5
2411 D3 I412 B6
2412 D2 I413 C9
2503 E7 I415 C7
2802 E10 I416 C6
2803 C11 I419 D2
2804 C11 I424 D8
2806 F11 I442 C6
2808 E11 I444 C7
2809 E12 I445 C7
2810 E12 I455 D6
2815 C12 I456 E7
2816 D12 I461 B13
2817 C11 I462 C12
3400 C3 I463 D5
3401 C2 I464 D10
3402 D2 I465 E11
3403 D2 I466 E10
3404 D6 I467 E11
3405 D5 I468 E11
3406 B14 I469 E12
3407 C14 I470 E10
3450 B7 I471 D12
3451 B7 I472 C14
3800 E10 I810 B11
3802 E11 I811 B11
3803 E11 I812 B11
3804 E10 I813 C10
3805 E12 I814 E9
3806 E10 I815 E9
3807 E9 I816 E9
3810 B10 I817 C11
5400 C4 I820 F9
5401 C5 I824 E12
5402 C6 I825 E12
5403 B6 I826 E12
5804 E12 I827 E10
6154 C13
6155 C12
6156 B13
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6158 C14
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6460 D8
6461 D8
6506 E6
6807 C11
6808 E9
6809 D9
7805 D10
7806 E12
9001 B4
9003 C6
9005 B7
9006 B5
9007 C5
9008 C4
9009 F3
9011 B7
9806 E10
9808 C12
9810 D10
9811 D12
9812 E12
9813 C12
9814 C12

PSU (42"): Supply Part A

A2 SUPPLY PART A

BIAS SUPPLY

VS-CONTROLLER

CONTROL

SOFTSTART CONTROL

CURRENT PROTECTION

HIGH SIDE DRIVE

LOW SIDE DRIVE

HOT

COLD

HOT GROUND

COLD GROUND

TO 1304 SA1 AUDIO - STBY

TO 1309 SA1 AUDIO - STBY

3104 313 6018.4

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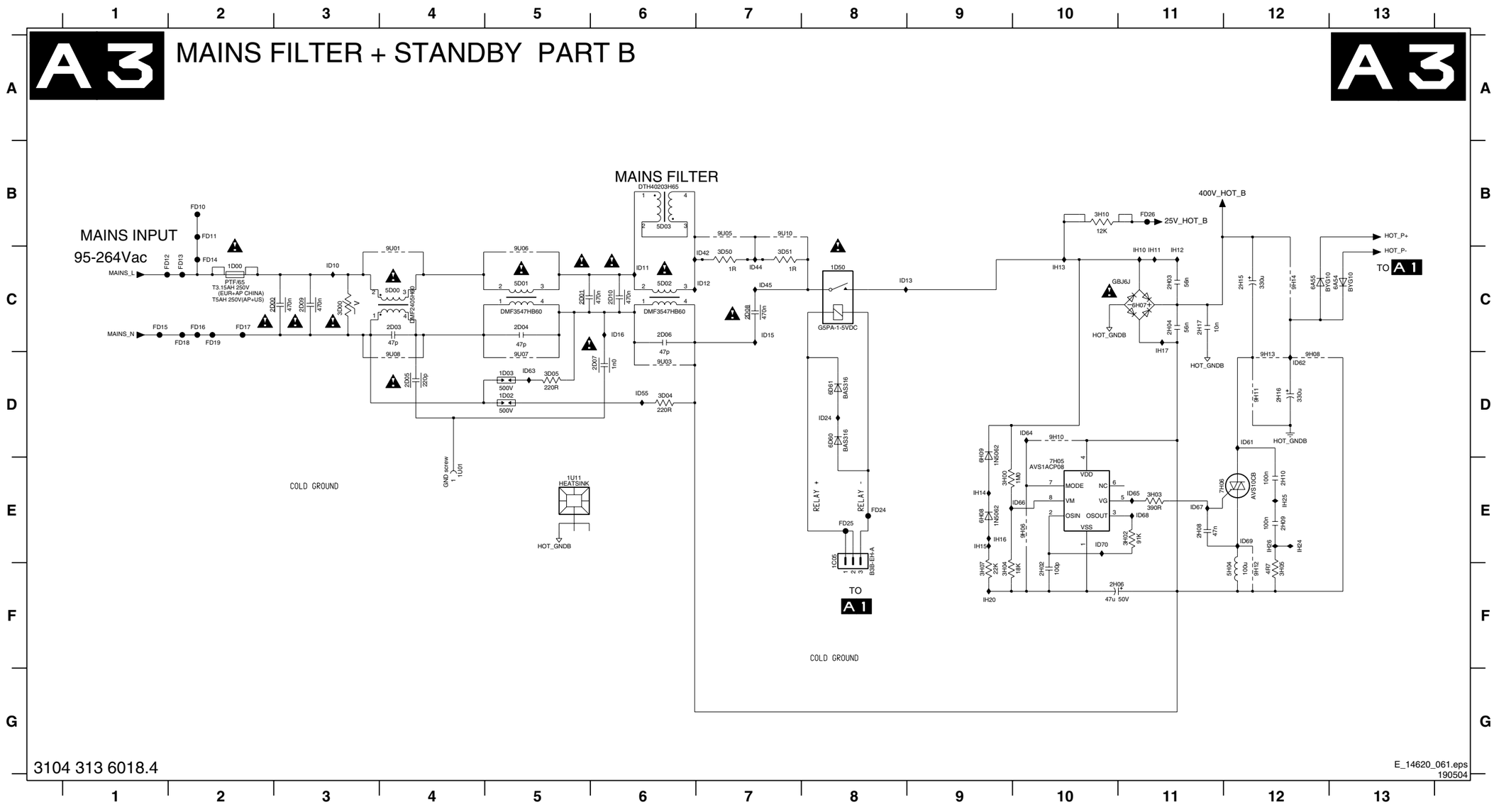
1009 I9	3070 H4	I038 C8
1010 I9	3071 H5	I039 D8
1304 H12	3075 G5	I042 C8
1309 I12	3089 H7	I045 C7
2000 F10	3292 H11	I046 C8
2002 B3	3999 A13	I051 E8
2003 A4	5001 C7	I052 D8
2004 C2	5002 C10	I055 E9
2005 D2	5004 D9	I057 E9
2006 C3	5005 C9	I059 E9
2007 E2	5007 B9	I062 B11
2008 G4	5008 B9	I063 B11
2009 D2	5009 B4	I064 B10
2010 H2	5010 A5	I070 D12
2011 E10	5013 E9	I072 D11
2012 E9	5015 C7	I073 E11
2013 D9	5016 D7	I074 E11
2014 F7	5017 A3	I076 F11
2015 F5	5025 E11	I077 F11
2016 E6	5026 F11	I078 A4
2017 C10	5027 D11	I080 B10
2019 H3	5028 D11	I081 F8
2020 D12	5040 D10	I084 F10
2021 C2	5041 E9	I085 E13
2022 E12	6001 D3	I088 E14
2023 B13	6002 D8	I089 E13
2024 E13	6003 C8	I092 F14
2025 E14	6004 D7	I093 F14
2026 G4	6005 D6	I094 G13
2027 F3	6006 I5	I096 A3
2028 D12	6007 C8	I097 A3
2029 E12	6008 D8	I098 A5
2030 F13	6009 G2	I099 A5
2031 D13	6010 G5	I100 A6
2032 E14	6011 F5	I101 A5
2033 E14	6012 E9	I103 C1
2034 C2	6013 C9	I104 D2
2035 F11	6014 F11	I105 E4
2038 E12	6015 H7	I106 E6
2039 C11	6016 G7	I107 C7
2040 C1	6017 I5	I108 D7
2044 D12	6020 H1	I109 D8
2045 F12	6021 E11	I110 D9
2046 I4	6022 H3	I111 C9
2047 I5	6023 F14	I112 E9
2048 I5	6027 C8	I113 E9
2050 E4	6028 E8	I114 D10
2060 C7	6044 D12	I116 C11
2061 C8	6051 H4	I117 D11
2062 D8	6077 A4	I119 D13
2063 C7	6078 A5	I120 D13
2064 D7	6079 A4	I121 E14
2065 D8	6080 A3	I122 F14
2071 E8	6081 B2	I124 H11
2072 C8	7001 C3	I131 I6
2077 H5	7002 B10	I132 I5
2290 H11	7004 H6	I133 I4
3000 A3	7005 C9	I134 I4
3001 F6	7006 D9	I135 H3
3002 C2	7007 D8	I136 H4
3003 C1	7008 E8	I137 H5
3004 D1	7009 G5	I138 H5
3005 C3	7010 F13	I139 G5
3006 D3	7017 F4	I140 G6
3007 E3	7018 F4	I141 H2
3008 E2	7030 C11	I142 G1
3009 E2	9002 G13	I143 G1
3010 H2	9004 F11	I144 A4
3011 H2	9010 G11	I145 E8
3012 F4	F002 C9	I146 B9
3013 G5	F003 C6	I147 C9
3014 C8	F004 D6	I148 C7
3015 C8	F005 D9	I149 C12
3016 C8	F007 F3	I150 D9
3017 D8	F008 D6	I151 I5
3018 E8	F009 D7	I294 C9
3019 E8	F012 E13	c001 F10
3020 E8	F014 F13	c002 F9
3021 G6	F016 D13	
3022 D13	F017 D12	
3023 E13	F018 B9	
3024 E13	F021 A12	
3025 F13	F022 A13	
3026 G13	F023 F9	
3027 G3	F024 E13	
3028 B10	F025 E13	
3029 C8	F027 E12	
3030 G12	F028 D12	
3031 C12	F029 C10	
3032 C12	F030 H12	
3033 B11	F031 H12	
3034 F14	F032 I12	
3037 D13	F299 A9	
3038 E14	F300 F9	
3040 E14	I006 B3	
3041 F14	I007 C3	
3043 D2	I008 C3	
3045 G6	I009 D2	
3046 F6	I010 D3	
3047 H3	I012 D5	
3048 D2	I018 E3	
3050 E3	I020 F4	
3052 D13	I021 E2	
3053 E4	I022 F3	
3055 I6	I023 F3	
3056 I4	I024 F4	
3057 C13	I025 F3	
3058 E3	I027 C3	
3061 E4	I028 G2	
3064 F4	I029 G3	
3065 E5	I033 F5	
3066 F3	I034 F7	
3067 G1	I036 F6	
3068 H4	I037 C8	

PSU (42"): Mains Filter and Standby Part B



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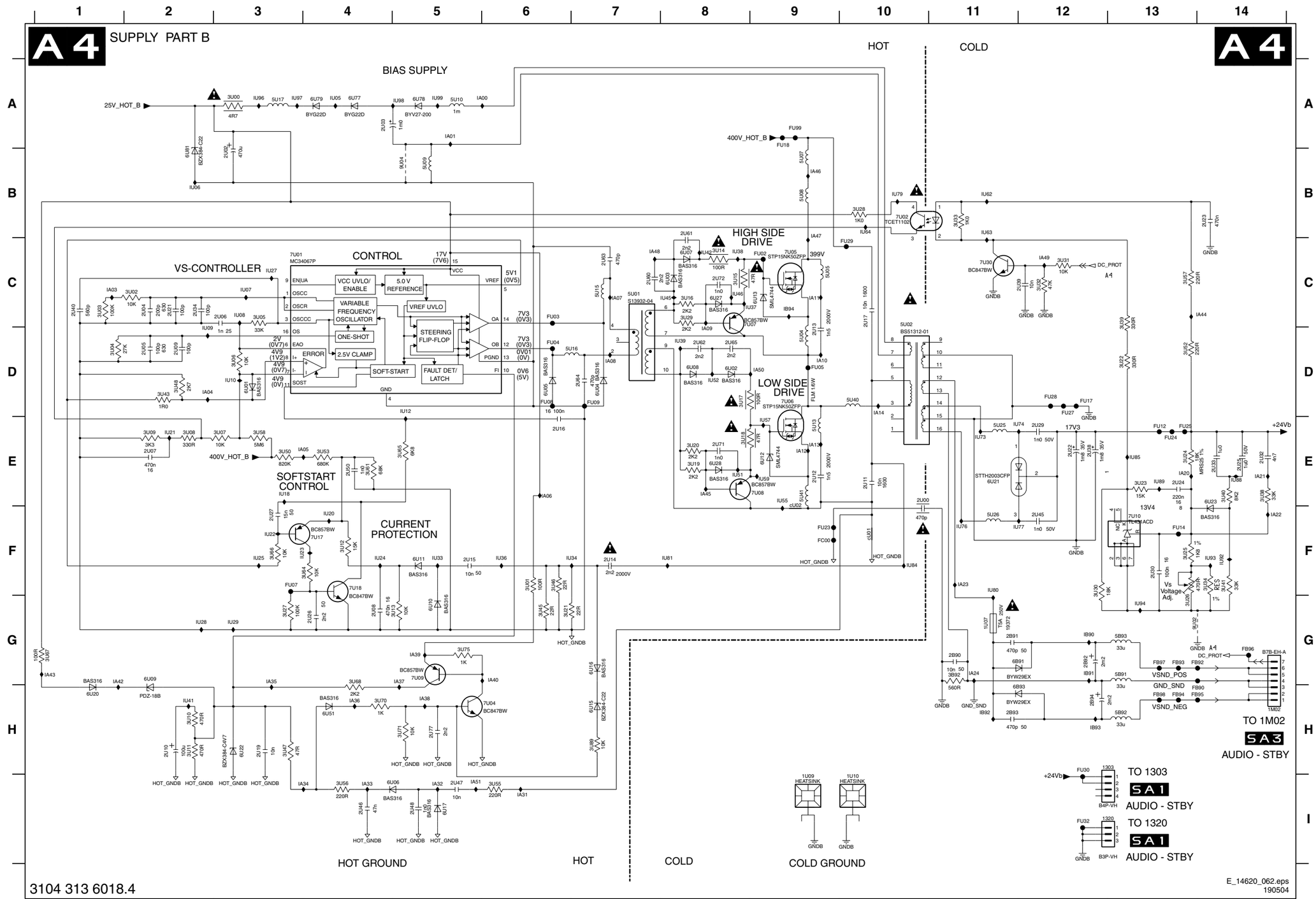
1D02 D5
1D03 D5
1D50 C8
1U01 E4
1U11 E5
2D00 C3
2D01 C5
2D03 C4
2D04 C5
2D05 D4
2D06 C6
2D07 D6
2D08 C7
2D09 C3
2D10 C6
2H02 F10
2H03 C11
2H04 C11
2H05 F10
2H08 E11
2H09 E12
2H10 E12
2H15 C12
2H16 D12
2H17 C11
3D00 C3
3D04 D6
3D05 D5
3D50 C7
3D51 C7
3H00 E9
3H02 E11
3H03 E11
3H04 F9
3H05 F12
3H07 F9
3H10 B10
5D00 C4
5D01 C5
5D02 C6
5D03 B6
5H04 F12
6A54 C13
6A55 C12
6D60 D8
6D61 D8
6H07 C11
6H08 E9
6H09 D9
7H05 E10
7H06 E12
9H06 E10
9H08 D12
9H10 D10
9H11 D12
9H12 F12
9H13 D12
9H14 C12
9U01 C4
9U03 D6
9U05 B7
9U06 C5
9U07 D5
9U08 D4
9U10 B7
FD10 B2
FD11 B2
FD12 C1
FD13 C2
FD14 C2
FD15 C1
FD16 C2
FD17 C2
FD18 C2
FD19 C2
FD24 E8
FD25 E8
FD26 B11
ID10 C3
ID11 C6
ID12 C7
ID13 C8
ID15 C7
ID16 C6
ID24 D8
ID42 C7
ID44 C7
ID45 C7
ID55 D6
ID61 D12
ID62 D12
ID63 D5
ID64 D10
ID65 E11
ID66 E10
ID67 E11
ID68 E11
ID69 E12
ID70 E10
IH10 C11
IH11 C11
IH12 C11
IH13 C10
IH14 E9
IH15 E9
IH16 E9
IH17 C11
IH20 F9
IH24 E12
IH25 E12
IH26 E12

PSU (42"): Supply Part B



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1320 I13	3U71 H5	IA34 I4
1M02 H14	3U75 G5	IA35 G3
1U07 G11	3U89 H7	IA36 H4
1U09 I9	5B91 G13	IA37 G5
1U10 I10	5B92 H13	IA38 H5
2B90 G11	5B93 G13	IA39 G5
2B91 G11	5U01 C7	IA40 G6
2B92 G12	5U02 C10	IA42 G1
2B93 H11	5U04 D9	IA43 G1
2B94 H12	5U05 C9	IA44 C14
2U00 E10	5U07 B9	IA45 E8
2U02 B3	5U08 B9	IA46 B9
2U03 A4	5U09 B5	IA47 B9
2U04 C2	5U10 A5	IA48 C7
2U05 D2	5U13 E9	IA49 C12
2U06 C3	5U15 C7	IA50 D9
2U07 E2	5U16 D7	IA51 I5
2U08 G4	5U17 A3	IB90 G12
2U09 D2	5U25 E11	IB91 G12
2U10 H2	5U26 F11	IB92 H11
2U11 E10	5U40 D10	IB93 H12
2U12 E9	5U41 E9	IB94 C9
2U13 D9	6B91 G12	IU05 A4
2U14 F7	6B93 H12	IU06 B2
2U15 F5	6U01 D3	IU07 C3
2U16 E6	6U02 D8	IU08 C3
2U17 C10	6U03 C8	IU09 D2
2U19 H3	6U04 D7	IU10 D3
2U21 C2	6U05 D6	IU12 D5
2U22 E12	6U06 I5	IU18 E3
2U23 B14	6U07 C8	IU20 F4
2U24 E13	6U08 D8	IU21 E2
2U25 E14	6U09 G2	IU22 F3
2U26 G4	6U10 G5	IU23 F3
2U27 F3	6U11 F5	IU24 F4
2U29 E12	6U12 E9	IU25 F3
2U30 F13	6U13 C9	IU27 C3
2U32 E14	6U15 H7	IU28 G2
2U33 E14	6U16 G7	IU29 G3
2U34 C2	6U17 I5	IU33 F5
2U38 E12	6U20 H1	IU34 F7
2U39 C12	6U21 E11	IU36 F6
2U40 C1	6U22 H3	IU37 C9
2U45 F12	6U23 E14	IU38 C8
2U46 I4	6U27 C8	IU39 D8
2U47 I5	6U28 E8	IU41 H2
2U48 I5	6U51 H4	IU42 C8
2U50 E4	6U77 A4	IU45 C8
2U60 C7	6U78 A5	IU46 C8
2U61 B8	6U79 A4	IU51 E8
2U62 D8	6U81 B2	IU52 D8
2U63 C7	7U01 C3	IU55 E9
2U64 D7	7U02 B10	IU57 E9
2U65 D8	7U04 H6	IU59 E9
2U71 E8	7U05 C9	IU62 B11
2U72 C8	7U06 D9	IU63 B11
2U77 H5	7U07 C8	IU64 B10
3B92 G11	7U08 E9	IU73 E11
3U00 A3	7U09 G5	IU74 E12
3U01 F6	7U10 F13	IU76 F11
3U02 C2	7U17 F4	IU77 F12
3U03 C1	7U18 F4	IU79 B10
3U04 D1	7U30 C11	IU80 F11
3U05 C3	9U02 G13	IU81 F8
3U06 D3	9U04 B5	IU84 F10
3U07 E3	FB90 H14	IU85 E13
3U08 E2	FB92 G14	IU88 E14
3U09 E2	FB93 G13	IU89 E13
3U10 H2	FB94 H13	IU92 F14
3U11 H2	FB95 H14	IU93 F14
3U12 F4	FB96 G14	IU94 G13
3U13 G5	FB97 G13	IU96 A3
3U14 C8	FB98 H13	IU97 A3
3U15 C8	FC00 F9	IU98 A5
3U16 C8	FU02 C9	IU99 A5
3U17 D8	FU03 C6	cU01 F10
3U18 E8	FU04 D6	cU02 F9
3U19 E8	FU05 D9	
3U20 E8	FU07 F3	
3U21 G6	FU08 D6	
3U22 D13	FU09 D7	
3U23 E13	FU12 E13	
3U24 E13	FU14 F13	
3U25 F13	FU17 D12	
3U26 G13	FU18 A9	
3U27 G3	FU23 F9	
3U28 B10	FU24 E13	
3U29 C8	FU25 E13	
3U30 F12	FU27 D12	
3U31 C12	FU28 D12	
3U32 C12	FU29 C10	
3U33 B11	FU30 H12	
3U34 F14	FU32 I12	
3U38 E14	FU99 A9	
3U39 C13	IA00 A6	
3U40 E14	IA01 A5	
3U41 F14	IA03 C1	
3U43 D2	IA04 D2	
3U45 G6	IA05 E4	
3U46 F6	IA06 E6	
3U47 H3	IA07 C7	
3U48 D2	IA08 D7	
3U50 E3	IA09 D8	
3U52 D13	IA10 D9	
3U53 E4	IA11 C9	
3U55 I6	IA12 E9	
3U56 I4	IA13 E9	
3U57 C13	IA14 D10	
3U58 E3	IA20 E13	
3U61 E4	IA21 E14	
3U64 F4	IA22 F14	
3U65 E5	IA23 F11	
3U66 F3	IA24 G11	
3U67 G1	IA31 I6	
3U68 G4	IA32 I5	

Layout PSU (42") (Top Side)

1000 B1
1001 A2
1009 B10
1010 C10
1011 C4
1303 E11
1304 B11
1305 A4
1306 A5
1307 D5
1308 C1
1309 B11
1320 E11
1400 B1
1401 A5
1402 A3
1403 A3
1450 B4
1B06 A4
1C05 D4
1D00 D1
1D02 E3
1D03 E3
1D50 E4
1M02 F11
1U01 D3
1U07 F10
1U09 E10
1U10 G10
1U11 G4
2000 A9
2002 B8
2003 B7
2004 A8
2005 A8
2010 A8
2011 C7
2012 D9
2013 C7
2014 A9
2017 B7
2020 C11
2022 B11
2025 A10
2033 A11
2038 B10
2400 B1
2401 B4
2403 A3
2404 A3
2405 A3
2406 B3
2407 B4
2408 C3
2409 B1
2410 B4
2411 B1
2412 B1
2503 A5
2803 C4
2804 C5
2806 B5
2808 C5
2809 D4
2810 D5
2815 B4
2816 B6
2817 A6
2B92 F10
2B94 F10
2D00 D2
2D01 E4
2D03 D4
2D04 E4
2D05 D4
2D06 E4
2D07 E4
2D08 E4
2D09 D2
2D10 E4
2H03 F5
2H04 F5
2H06 F5
2H08 F5
2H09 G5
2H10 G6
2H15 E5
2H16 E6
2H17 E6
2U00 E9
2U02 E8
2U03 E7
2U04 D7
2U05 D7
2U10 D8
2U11 F8
2U12 G9
2U13 G8
2U14 D8
2U17 F7
2U22 F11
2U25 D11
2U33 D11
2U38 E10
3000 A6
3014 C7
3015 C6
3017 D8
3018 D8
3026 A10
3050 A7
3053 A7
3058 A7
3400 A1
3401 C1
3402 D1
3403 C1
3404 B3
3405 B3
3406 D5
3407 D6
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3800 B5
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3805 C5
3807 B5
3810 B5
3D00 D1
3D04 E3
3D05 E3
3D50 G2
3D51 G4
3H00 E5
3H03 F6
3H05 G4
3H07 E5
3H10 E5
3U00 D5
3U14 F7
3U15 G7
3U17 G8
3U18 G8
3U26 D10
3U50 E7
3U53 D6
3U58 E7
5001 C7
5002 B9
5004 C7
5005 D7
5007 A6
5008 A6
5009 B8
5010 B7
5013 D8
5015 B7
5016 B7
5017 A5
5025 B10
5026 B10
5027 C9
5028 C10
5040 C7
5041 D9
5400 A2
5401 A2
5402 C3
5403 C3
5804 C5
5B91 F11
5B92 F11
5B93 F11
5D00 E2
5D01 E3
5D02 F3
5D03 F2
5H04 F5
5U01 F7
5U02 F9
5U04 F7
5U05 G8
5U07 E6
5U08 E6
5U09 E8
5U10 E8
5U13 G9
5U15 E7
5U16 E7
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5U26 E10
5U40 F7
5U41 G9
6014 A11
6021 B10
6044 D10
6078 B7
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6807 C4
6809 B5
6B91 G10
6B93 G11
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6H08 E5
6H09 E5
6U21 E10
6U78 E7
7001 A7
7002 A9
7005 D7
7006 C8
7805 B5
7806 D5
7H05 F6
7H06 G6
7U01 D7
7U02 D9
7U05 G7
7U06 G9
9001 A1
9003 B4
9004 B11
9005 D2
9006 B2
9007 B3
9008 A1
9009 A5
9010 B11
9011 C3
9080 A8
9082 C4
9088 A10
9090 A10
9091 A9
9092 B8
9093 A8
9094 B7
9095 B9
9096 C7
9098 D6
9099 E7
9808 C6
9811 C6
9812 C5
9813 C6
9814 B6
9H08 F6
9H11 F6
9H12 F5
9H13 E6
9H14 E6
9H15 F6
9H16 G5
9U01 E1
9U03 E4
9U04 E8
9U05 G3
9U06 E2
9U07 E3
9U08 E2
9U09 G8
9U10 F4
9U50 E3
9U51 E9
9U52 E5
9U53 F5
9U54 G7
9U55 D8
9U56 F10
9U58 E7
9U59 E5
9U60 D4
9U61 D5
9U62 D5
9U63 B11
9U65 B11
9U66 D10
9U67 A7
9U68 B7
9U69 A8
9U70 A8
9U71 B7
9U72 B7
9U73 B7
9U74 D7
9U76 E8
9U77 E9
9U78 E9
9U79 E8
9U80 E7
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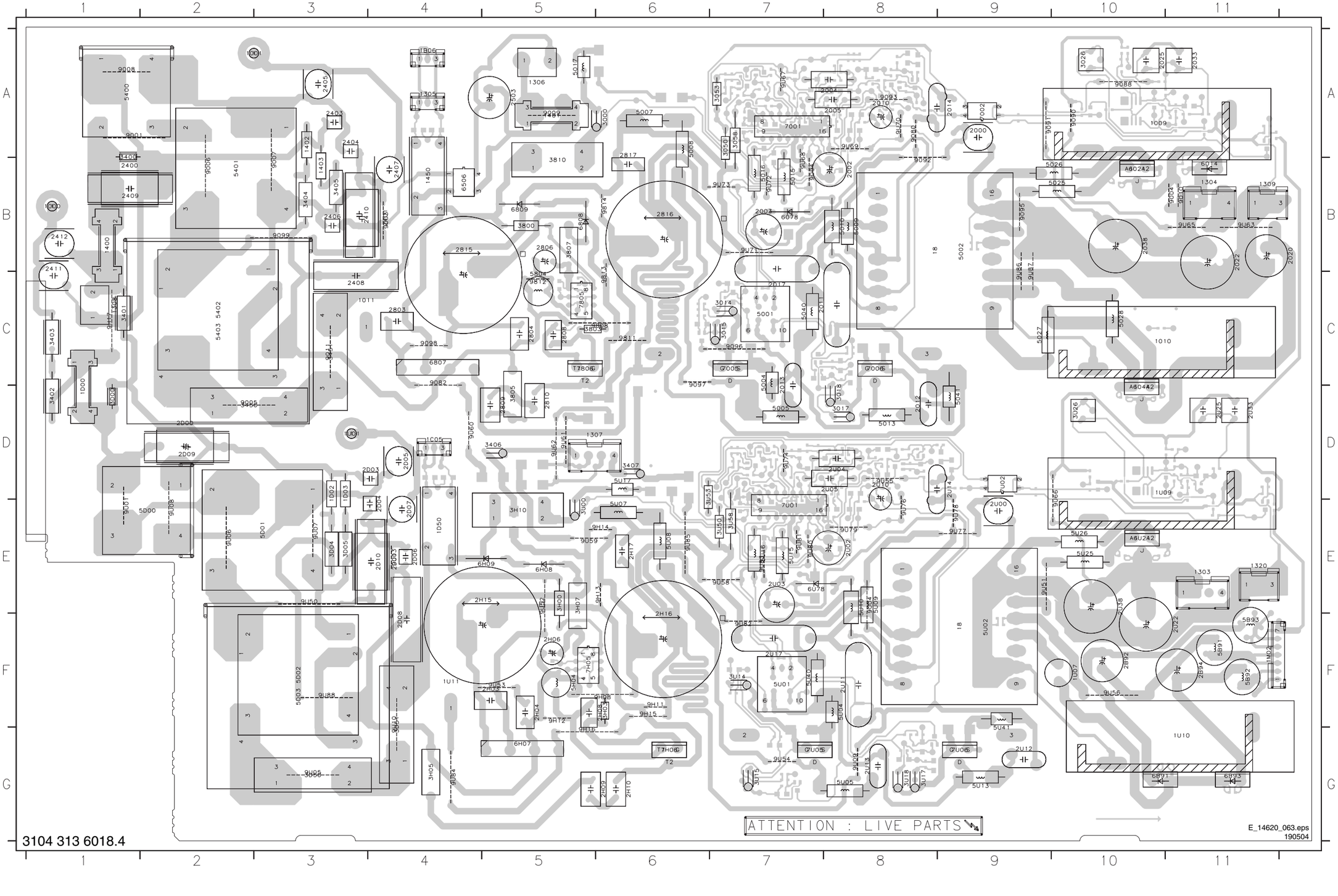
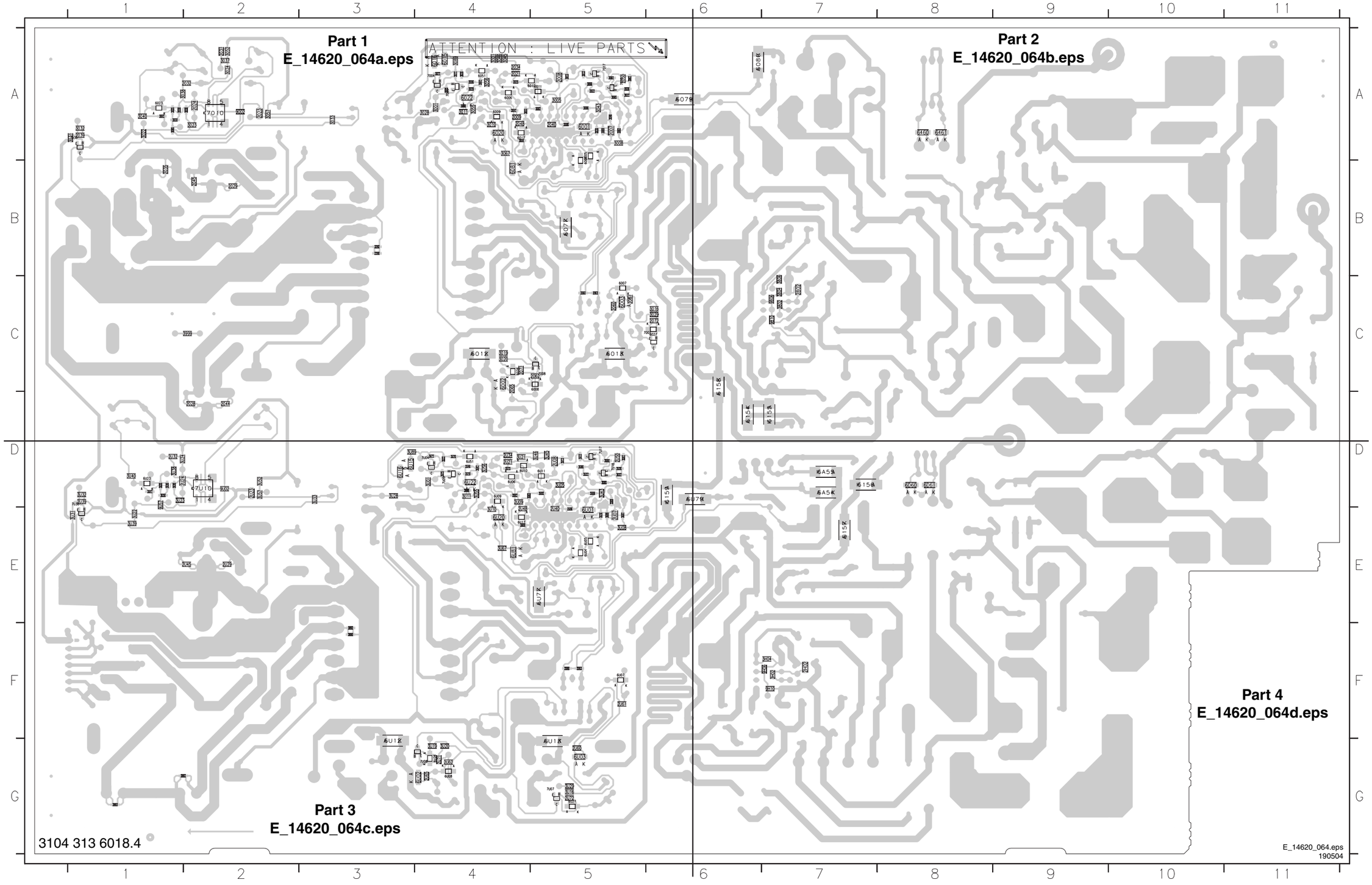
9U84 G4
9U85 E6
9U86 B9
9U87 B9
9U88 F3



3104 313 6018.4

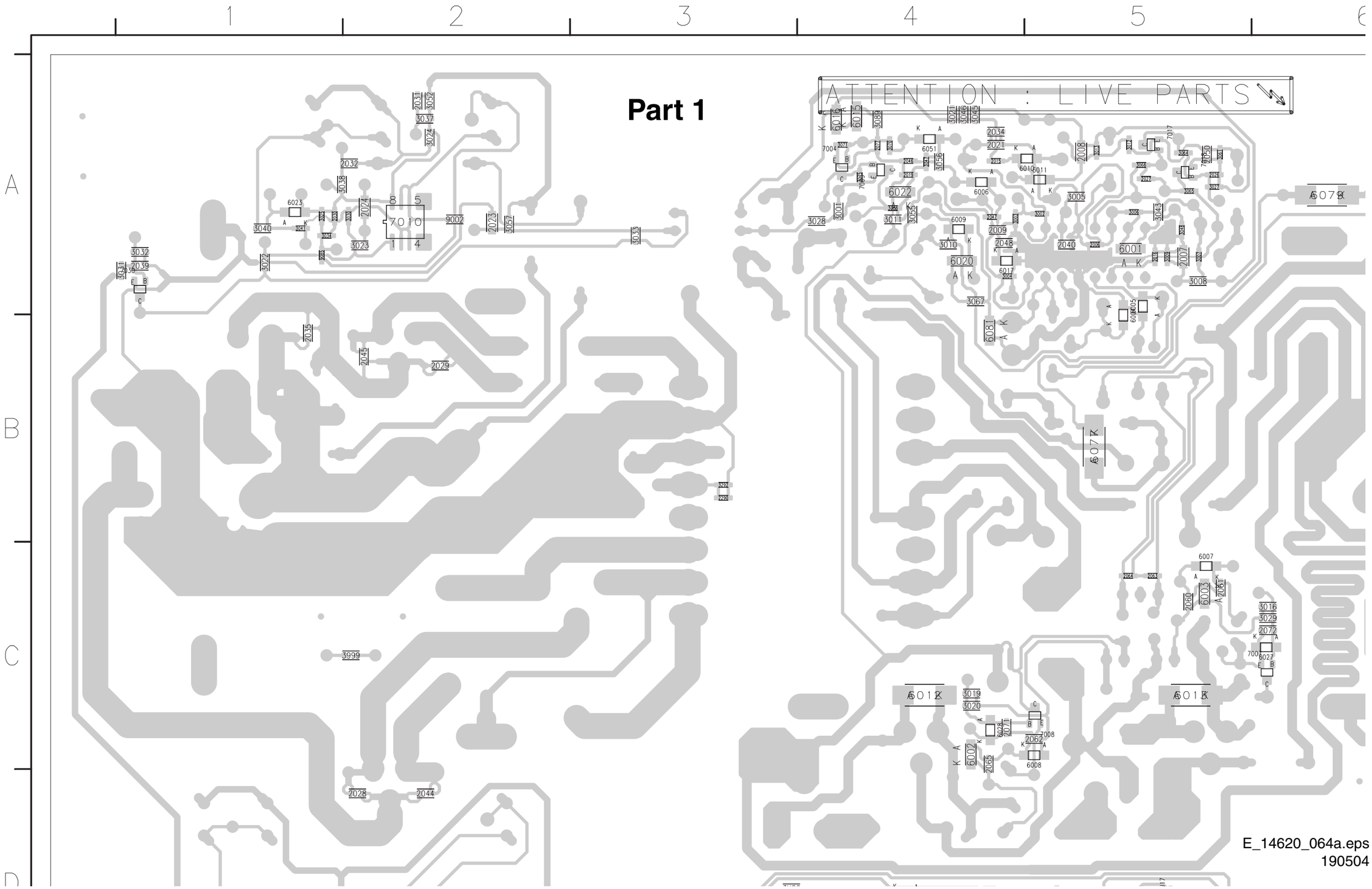
Layout PSU (42") (Overview Bottom Side)

2006 A5	2026 A5	2040 A5	2063 C5	2B93 G1	2U23 D2	2U45 E2	2U65 G4	3007 A5	3021 A4	3032 A1	3047 A4	3067 A4	3999 C2	3U07 E5	3U21 D4	3U32 D1	3U47 D4	3U67 E4	6005 A5	6016 A4	6080 A6	6A54 D7	6U07 F5	6U20 E4	7007 C6	7U09 D4	9H10 F7
2007 A5	2027 A5	2044 D2	2064 C5	2H02 F7	2U24 D1	2U46 D4	2U71 G4	3008 A5	3022 A1	3033 A3	3048 A5	3068 A4	3B92 F3	3U08 E5	3U22 E1	3U33 D3	3U48 D5	3U68 D4	6006 A4	6017 A4	6081 B4	6A55 D7	6U08 G4	6U22 D4	7008 C5	7U10 D2	9U02 D2
2008 A5	2028 D2	2045 B2	2065 C4	2U06 E5	2U26 D5	2U47 D4	2U72 G5	3009 A5	3023 A2	3034 A1	3052 A2	3070 A4	3H02 F7	3U09 E5	3U23 D1	3U34 D1	3U52 D2	3U70 D4	6007 C5	6020 A4	6154 D6	6D60 D8	6U09 D4	6U23 D1	7009 A4	7U17 D5	9U57 D1
2009 A4	2029 B2	2046 A4	2071 C4	2U07 E5	2U27 D5	2U48 E4	2U77 D4	3010 A4	3024 A2	3037 A2	3055 A4	3071 A4	3H04 F7	3U10 E4	3U24 D1	3U38 D1	3U55 D4	3U71 D4	6008 C5	6022 A4	6155 D6	6D61 D8	6U10 D4	6U27 G5	7010 A2	7U18 D5	
2015 A4	2030 A1	2047 A4	2072 C6	2U08 D5	2U29 E2	2U50 D5	3001 A4	3011 A4	3025 A1	3038 A1	3056 A4	3075 A4	3U01 D4	3U11 D4	3U25 D1	3U39 E1	3U56 D4	3U75 D4	6009 A4	6023 A1	6156 D7	6U01 D5	6U11 D5	6U28 G4	7017 A5	7U30 E1	
2016 A5	2031 A2	2048 A4	2077 A4	2U09 D4	2U30 D1	2U60 G5	3002 A5	3012 A5	3027 A5	3040 A1	3057 A2	3089 A4	3U02 D5	3U12 D5	3U27 D5	3U40 D1	3U57 D2	3U89 D3	6010 A5	6027 C6	6157 E7	6U02 G3	6U12 F3	6U51 D4	7018 A5	9002 A2	
2019 A4	2032 A2	2050 A5	2290 B3	2U15 D4	2U32 D1	2U61 F5	3003 A4	3013 A5	3028 A4	3041 A1	3061 A5	3292 B3	3U03 D4	3U13 D5	3U28 D3	3U41 D1	3U61 D5	6001 A5	6011 A5	6028 C4	6158 C6	6U03 G5	6U13 F5	6U77 E4	7030 A1	9085 A1	
2021 A4	2034 A4	2060 C5	2802 C7	2U16 E5	2U34 D4	2U62 G4	3004 A4	3016 C6	3029 C6	3043 A5	3064 A5	3802 C7	3U04 E4	3U16 G5	3U29 G5	3U43 D5	3U64 D5	6002 C4	6012 C4	6051 A4	6159 D6	6U04 E5	6U15 D4	6U79 D6	7U04 D4	9806 C7	
2023 A2	2035 B1	2061 C5	2B90 F3	2U19 D4	2U39 D1	2U63 F5	3005 A5	3019 C4	3030 A2	3045 A4	3065 A5	3804 C7	3U05 D5	3U19 G4	3U30 D1	3U45 D5	3U65 D5	6003 C5	6013 C5	6077 B5	6460 A8	6U05 E5	6U16 D3	6U81 E4	7U07 G5	9810 C7	
2024 A2	2039 A1	2062 C5	2B91 G1	2U21 D4	2U40 E5	2U64 F5	3006 A5	3020 C4	3031 A1	3046 A4	3066 A5	3806 C7	3U06 D5	3U20 G4	3U31 E1	3U46 D5	3U66 D5	6004 B5	6015 A4	6079 A6	6461 A8	6U06 D4	6U17 E4	7004 A4	7U08 F4	9H06 F7	



Layout PSU (42") (Part 1 Bottom Side)

Part 1



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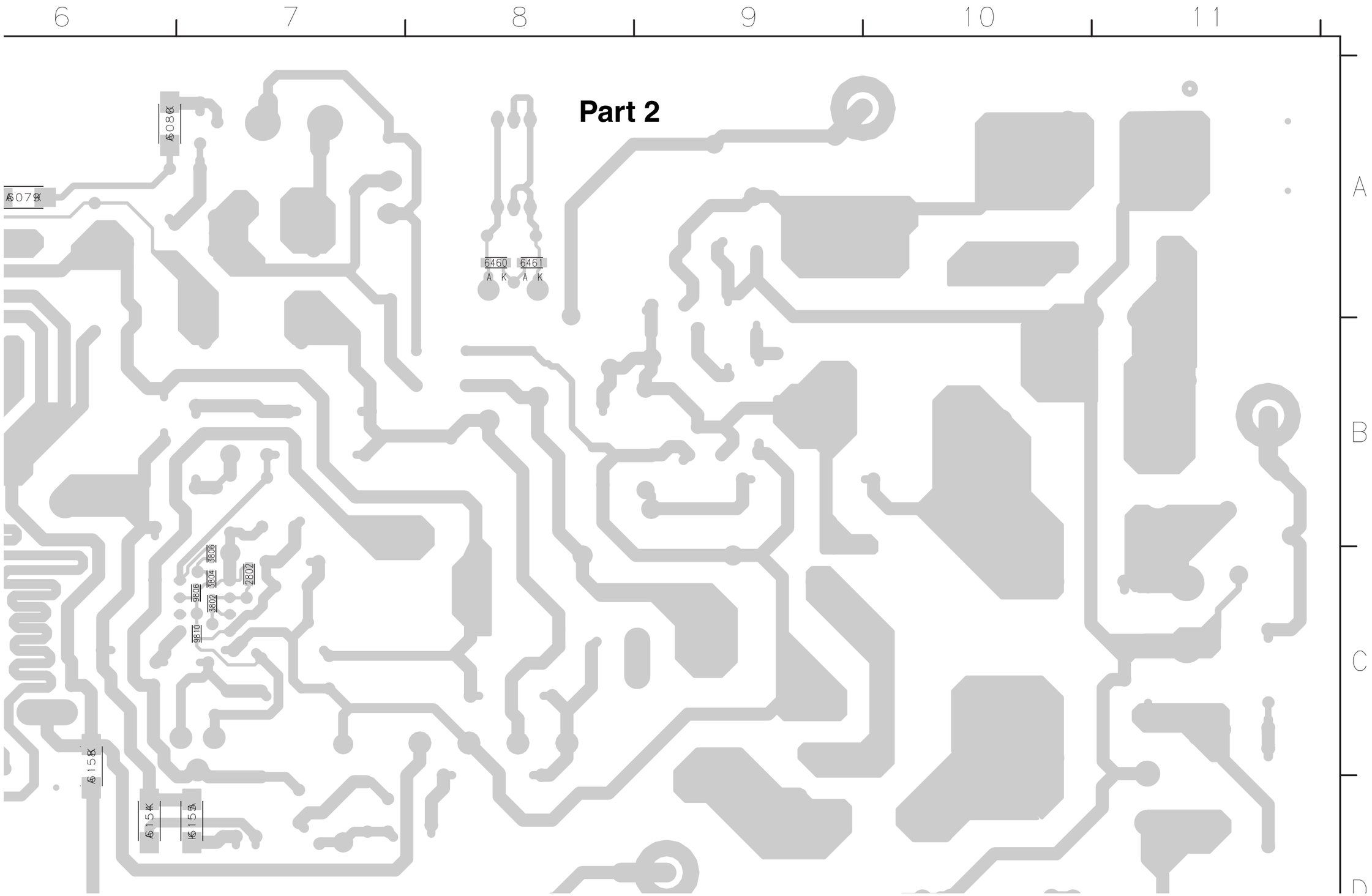
190504

Layout PSU (42") (Part 2 Bottom Side)



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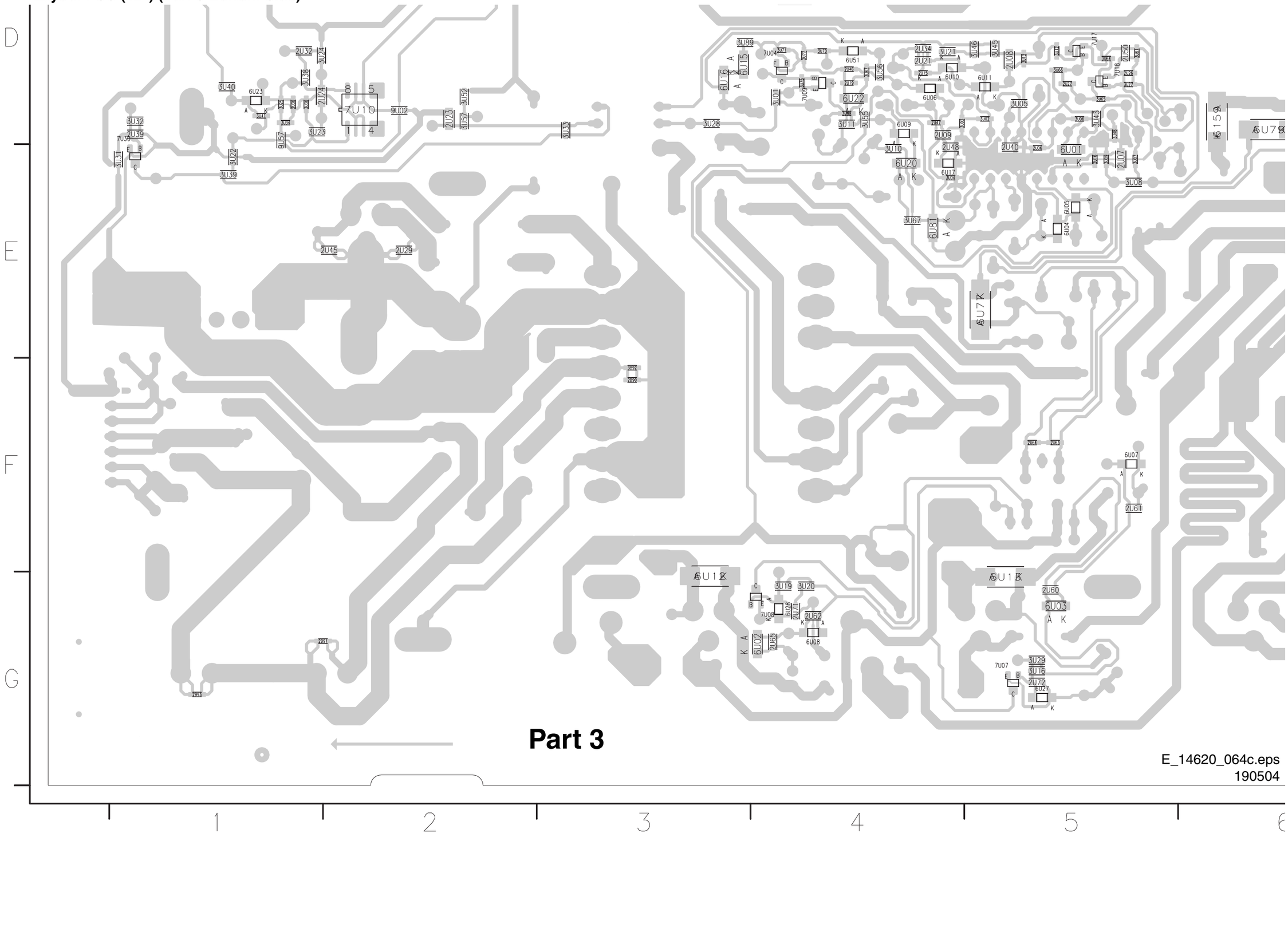
190504

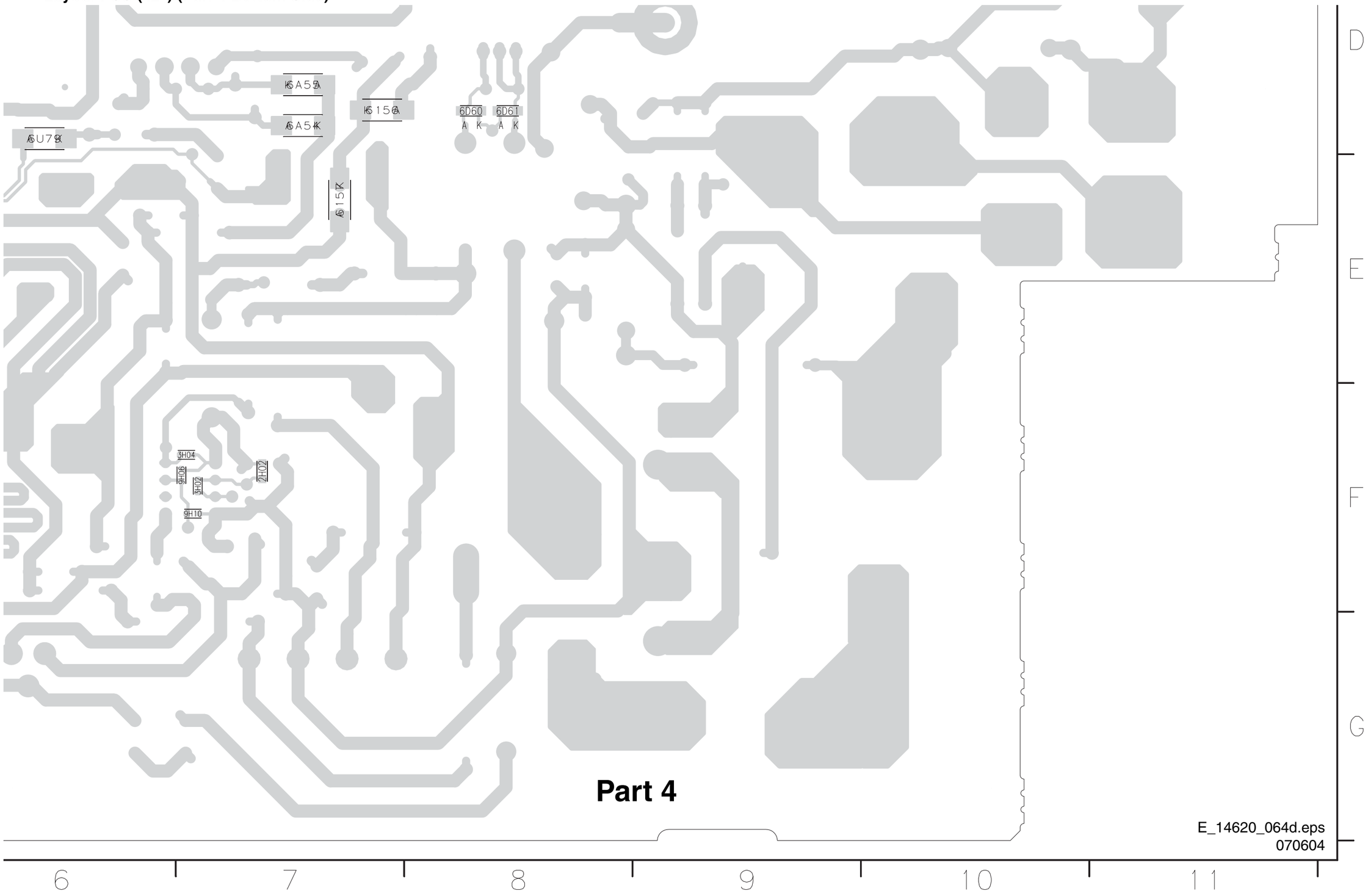
Layout PSU (42") (Part 3 Bottom Side)



Part 3

E_14620_064c.eps
190504

Layout PSU (42") (Part 4 Bottom Side)



Ambi Light Panel

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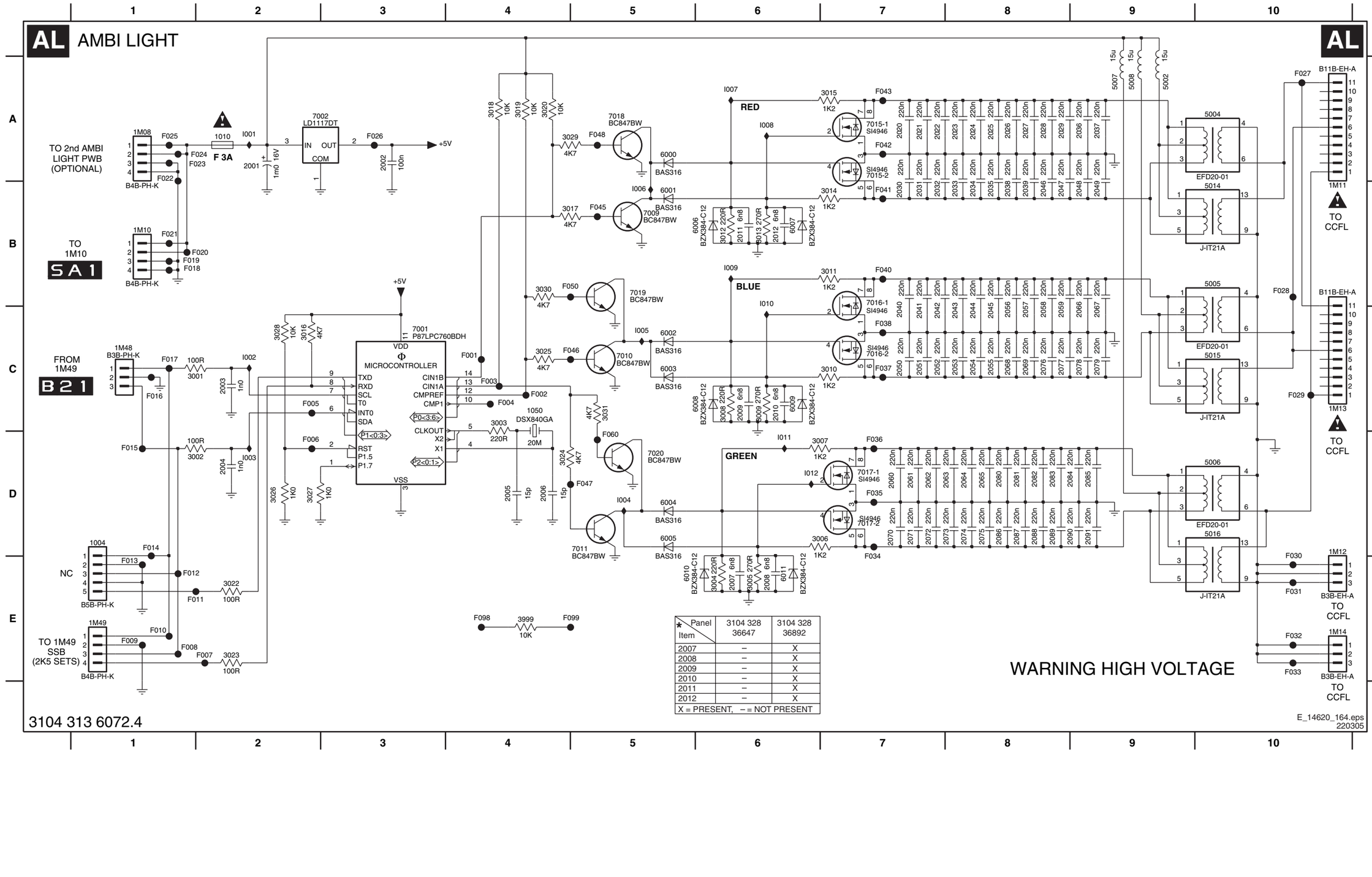
1010 A2	2003 C2	2022 A7	2034 B8	2046 B8	2058 C8	2070 D7	2082 D8	3003 C4	3015 A7	3028 C2	5015 C10	6010 E5	7017-2 D7	F009 E1	F021 B1	F033 E10	F047 D5	I007 A6
1050 C4	2004 D2	2023 A8	2035 B8	2047 B8	2059 C8	2071 D7	2083 D8	3004 E6	3016 C2	3029 A4	5016 D10	6011 E6	7018 A5	F010 E1	F022 A1	F034 E7	F048 A5	I008 A6
1M08 A1	2005 D4	2024 A8	2036 A9	2048 B9	2060 D7	2072 D7	2084 D9	3005 E6	3017 B4	3030 B4	6000 A5	7001 C3	7019 B5	F011 E1	F023 A2	F035 D7	F050 B4	I009 B6
1M10 B1	2006 D4	2025 A8	2037 A9	2049 B9	2061 D7	2073 D8	2085 D9	3006 D6	3018 A4	3031 C5	6001 B5	7002 A2	7020 D5	F012 E1	F024 A2	F036 D7	F060 D5	I010 B6
1M11 B10	2007 E6	2026 A8	2038 B8	2050 C7	2062 D7	2074 D8	2086 D8	3007 D6	3019 A4	3999 E4	6002 C5	7009 B5	F001 C4	F013 E1	F025 A1	F037 C7	F098 E4	I011 D6
1M12 D10	2008 E6	2027 A8	2039 B8	2051 C7	2063 D8	2075 D8	2087 D8	3008 C6	3020 A4	5002 A9	6003 C5	7010 C5	F002 C4	F014 D1	F026 A3	F038 C7	F099 E5	I012 D6
1M13 C10	2009 C6	2028 A8	2040 C7	2052 C7	2064 D8	2076 C8	2088 D8	3009 C6	3022 E2	5004 A10	6004 D5	7011 D5	F003 C4	F015 D1	F027 A10	F040 B7	I001 A2	
1M14 E10	2010 C6	2029 A8	2041 C7	2053 C8	2065 D8	2077 C8	2089 D8	3010 C7	3023 E2	5005 B10	6005 D5	7015-1 A7	F004 C4	F016 C1	F028 B10	F041 B7	I002 C2	
1M48 C1	2011 B6	2030 B7	2042 C7	2054 C8	2066 C9	2078 C9	2090 D9	3011 B7	3024 D4	5006 D10	6006 B6	7015-2 A7	F005 C2	F017 C1	F029 C10	F042 A7	I003 D2	
1M49 E1	2012 B6	2031 B7	2043 C8	2055 C8	2067 C9	2079 C9	2091 D9	3012 B6	3025 C4	5007 A9	6007 B6	7016-1 B7	F006 D2	F018 B1	F030 E10	F043 A7	I004 D5	
2001 A2	2020 A7	2032 B7	2044 C8	2056 C8	2068 C8	2080 D8	3001 C1	3013 B6	3026 D2	5008 A9	6008 C6	7016-2 C7	F007 E2	F019 B1	F031 E10	F045 B5	I005 C5	

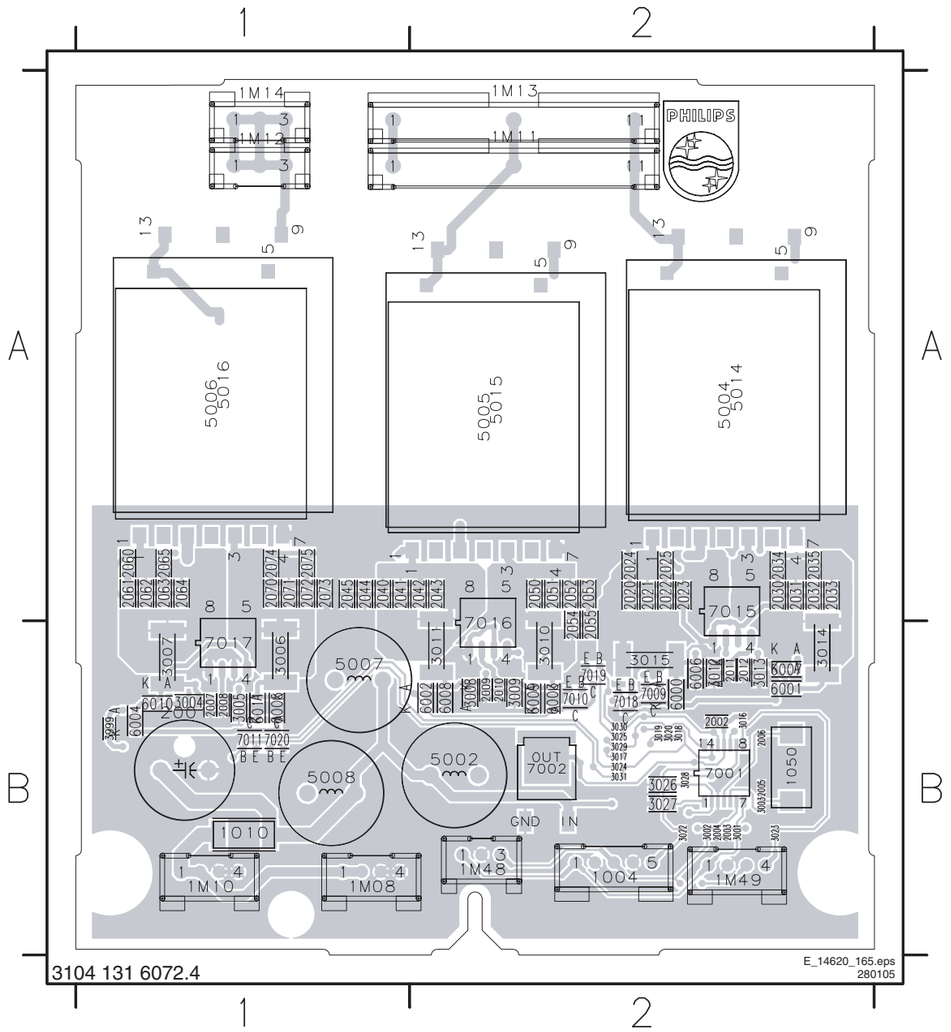


* Panel / Item	3104 328 36647	3104 328 36892
2007	–	X
2008	–	X
2009	–	X
2010	–	X
2011	–	X
2012	–	X
X = PRESENT, – = NOT PRESENT		

3104 313 6072.4

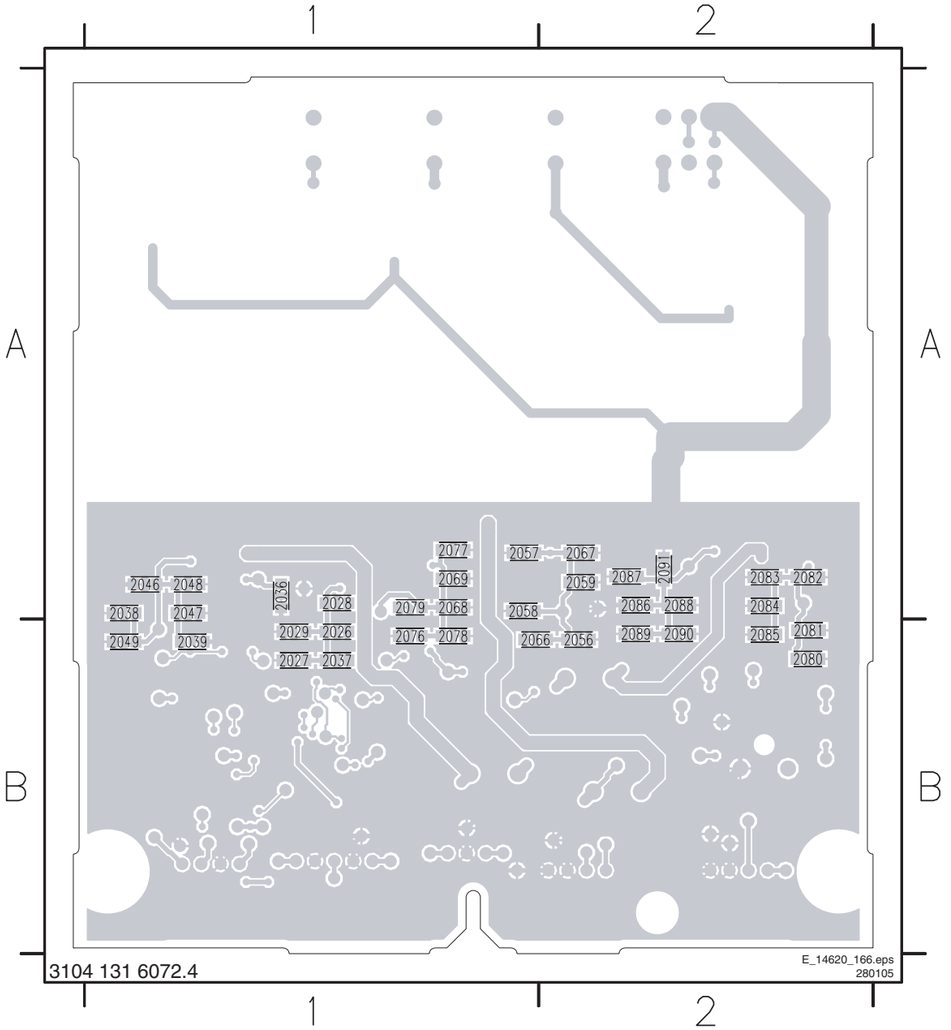
E_14620_164.eps
220305

Layout Ambi Light Panel (Top Side)



1004	B2	3011	B2
1010	B1	3012	B2
1050	B2	3013	B2
1M08	B1	3014	B2
1M10	B1	3015	B2
1M11	A2	3016	B2
1M12	A1	3017	B2
1M13	A2	3018	B2
1M14	A1	3019	B2
1M48	B2	3020	B2
1M49	B2	3022	B2
2001	B1	3023	B2
2002	B2	3024	B2
2003	B2	3025	B2
2004	B2	3026	B2
2005	B2	3027	B2
2006	B2	3028	B2
2007	B1	3029	B2
2008	B1	3030	B2
2009	B2	3031	B2
2010	B2	3999	B1
2011	B2	5002	B2
2012	B2	5004	A2
2020	A2	5005	A1
2021	A2	5006	A1
2022	A2	5007	B1
2023	A2	5008	B1
2024	A2	5014	A2
2025	A2	5015	A1
2030	A2	5016	A1
2031	A2	6000	B2
2032	A2	6001	B2
2033	A2	6002	B2
2034	A2	6003	B2
2035	A2	6004	B1
2040	A1	6005	B1
2041	A1	6006	B2
2042	A2	6007	B2
2043	A2	6008	B2
2044	A1	6009	B2
2045	A1	6010	B1
2050	A2	6011	B1
2051	A2	7001	B2
2052	A2	7002	B2
2053	A2	7009	B2
2054	B2	7010	B2
2055	B2	7011	B1
2060	A1	7015	B2
2061	A1	7016	B2
2062	A1	7017	B1
2063	A1	7018	B2
2064	A1	7019	B2
2065	A1	7020	B1
2070	A1		
2071	A1		
2072	A1		
2073	A1		
2074	A1		
2075	A1		
3001	B2		
3002	B2		
3003	B2		
3004	B1		
3005	B1		
3006	B1		
3007	B1		
3008	B2		
3009	B2		
3010	B2		

Layout Ambi Light Panel (Bottom Side)



2026	B1		
2027	B1		
2028	A1		
2029	B1		
2036	A1		
2037	B1		
2038	A1		
2039	B1		
2046	A1		
2047	A1		
2048	A1		
2049	B1		
2056	B2		
2057	A1		
2058	A1		
2059	A2		
2066	B1		
2067	A2		
2068	A1		
2069	A1		
2076	B1		
2077	A1		
2078	B1		
2079	A1		
2080	B2		
2081	B2		
2082	A2		
2083	A2		
2084	A2		
2085	B2		
2086	A2		
2087	A2		
2088	A2		
2089	B2		
2090	B2		
2091	A2		

SSB: IF, I/O Video Processing

B2 IF, I/O VIDEO PROCESSING

B2

HIP

IF DEM

SUPPLY

CTRL

SYNC

I/O SWITCH

LUMA & CHROMA PROC.

OUTP SWITCH

SAW-FILTER AUDIO

SAW-FILTER VIDEO

MODULATOR COIL

GROUP DELAY COR.

COIL 40.4 SUPPRESSION

7323 TDA9320H

7307 TDA9181

CLAMP

SAND-CASTLE

FILTER TUNING

CLOCK GEN

2H/4H DELAY

ADAPTIVE COMB FILTER

8204 000 8345.4

E_14620_084.eps 070704

1305 E11 3457 H5
1306 E11 3460 D13
1307 E12 3461 D13
1308 E12 3462 D13
1406 E4 3463 B4
1407 E5 3468 H11
1408-A G3 3473 D11
1408-B G3 3474 F8
1409-A C3 3475 G9
1409-B D3 3476 H9
1410-A E3 5309 H14
1410-B F3 5310 H14
1411 G6 5311 I14
2300 F7 5312 F14
2302 H14 5318 F7
2305 C11 5401 D2
2316 C11 5402 E5
2322 C11 5403 H2
2327 D12 5404 B6
2339 H7 5405 B6
2350 A11 5406 E5
2351 A11 5408 D6
2352 A11 5411 C1
2353 I12 5416 B3
2354 G12 6402 E2
2355 C12 6403 D2
2356 F10 6404 G2
2357 F11 6405 E2
2358 F11 7307 G11
2359 F11 7320 F9
2360 F11 7322 E7
2361 F13 7323 D9
2362 F13 7401 F2
2364 C12 7402 H7
2365 F7 7403 D2
2366 F8 7405 H1
2367 F8 7406 F5
2368 F8 7407 G5
2369 F8 7408 A11
2370 F8 7409 A12
2371 B10 7410 H5
2372 B10 7411 D6
2373 B8 7412 F14
2374 B8 7413 D13
2375 B8 7414 D11
2376 B7 7415 H9
2377 B6 9318 G11
2378 B7 9319 G11
2379 F12 9322 G8
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2385 G13 9406 F13
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2388 A11 9408 H7
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2391 B3 9410 B4
2392 B8 9412 G6
2394 B6 9413 F6
2401 C6 9414 E7
2402 G6 9415 C3
2403 F9 9416 D5
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2406 G2 9419 E7
2407 G3 9420 F5
2408 H3 9422 H6
2409 C6 9423 C11
2410 G9 9424 C11
2411 D6 9425 C11
2412 C1 9426 D11
2413 D5 9427 G7
2414 H6 9428 H7
2415 H6 A400 G2
2416 C6 A409 C5
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2418 D6 A411 C4
2419 D7 A412 C4
2420 G8 F401 D7
2421 G14 F403 C7
2422 E13 F404 E12
2423 G14 F405 E12
2424 H11 F406 E12
2425 B1 F407 B10
2426 H13 F408 B10
2427 I14 F411 C6
2428 I14 F413 B6
2432 D11 F437 D1
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3435 G5 I464 F9
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3441 B4
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3445 F6
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3448 B12
3449 B12
3450 E14
3451 F13
3452 F14
3456 G5

SSB: PICNIC

B3A PICNIC

B3A

FBX SOFTWARE

PROM

7712 74HC573

7713 PICNIC SAA4978H

MICRO-PROCESSOR PSP

P0 P2

CLK TIMING

3 X DAC

BACK END PEAKING MUX

ANALOG PROCESSING

3 X ADC

MID END HISTOGRAM NOISE REDUCTION TBC/SRC MUX

FRONT END

PLL CLK TIMING

OSC

BST

BUS A BUS B BUS C BUS D

DUAL FIFO (262,214 x 8) x 2

FM1

FREQ. MULTI. & ZDB

B3

B3D

N.C.

* SEE MAPPING I1 ON B3c

** SEE MAPPING G1 ON B3c

8204 000 8343.4

E_14620_085.eps 070704

1702 K6 3928 I3
1703 K6 3929 I3
1710 L5 3930 J3
2707 C2 3931 J4
2708 I16 3932 J4
2709 A8 3933 J4
2710 C17 5703 A8
2711 C17 5705 J6
2712 C15 5706 H5
2713 G2 5707 I4
2714 G3 5708 J4
2716 C16 5714 H6
2717 C15 5723 E5
2718 H3 5724 F5
2719 J3 5725 C8
2720 J3 5726 C7
2721 K3 5727 D7
2722 K3 5728 D7
2724 F6 6701 A8
2725 C16 6703 J7
2726 F13 6710 H6
2727 E11 7702 H17
2731 F9 7703 C4
2732 C7 7705 A6
2733 I14 7706 A7
2734 K14 7707 D5
2735 L9 7708 B6
2736 M10 7709 C5
2737 G6 7710 D6
2738 C18 7711 C8
2740 I5 7712 E7
2741 I5 7713 I9
2742 I5 7714 D16
2743 C6 7715 G5
2744 C6 7775 H4
2745 C8 7776 I3
2746 D8 7777 J4
2747 H5 9700 B7
2748 F6 9701 F5
2749 H6 9702 E6
2754 D8 9703 H7
2757 I7 9706 L6
2800 I6 9707 I5
2804 J6 9708 I4
2806 H6 9709 J5
2807 K7 9710 F4
2837 J18 9720 L3
2838 K17 9726 G4
2839 K18 9727 E18
2840 L3 9728 D15
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2881 J6 9767 I18
2900 I4 9768 H17
2901 I4 9769 H16
2902 J4 9770 H16
2915 I5 9771 H16
2916 J5 9772 H16
2917 A7 9809 B5
2918 A7 9820 B14
2920 J7 9825 I4
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2927 M17 9827 J3
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3700 K14 F110 J2
3701 L6 F112 K3
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3704 G17 F118 I7
3705 H18 F119 K3
3706 I6 F122 L6
3709 F3 F123 L6
3710 F3 F124 L6
3711 E11 F125 L6
3712 L7 F126 M6
3713 H3 F127 M6
3714 I3 F128 F6
3715 J3 F129 G6
3716 H3 F140 K14
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3722 C3 F155 G6
3723 K6 F156 G6
3724 H18 F157 H7
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3726 K3 F159 H7
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3728 K3 F161 I6
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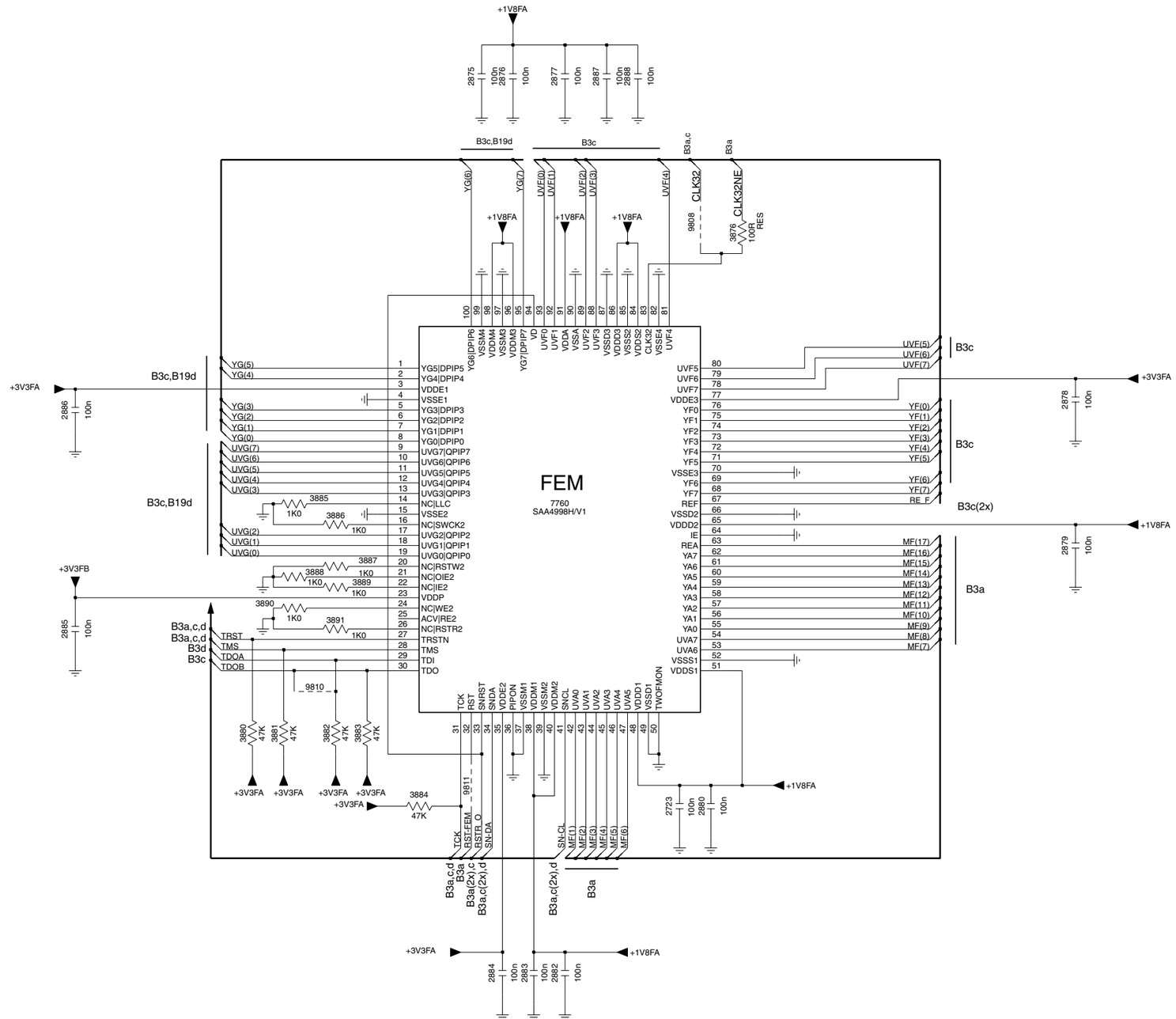
3732 A6 F163 I5
3733 C3 F164 J5
3734 C4 F165 J5
3736 C5 F166 J5
3737 C6 F706 C6
3738 D5 F707 C6
3739 D5 F708 C6
3740 A6 F709 D5
3741 D5 F710 K6
3742 D6 F784 E7
3743 D6 F785 F7
3746 D6 F786 E8
3747 C5 F787 F8
3748 B5 F788 H7
3749 D4 I720 B4
3750 D6 I727 H6
3751 B6 I802 A8
3752 B7 I803 I6
3753 C6 I804 H6
3754 C6 I805 D6
3755 D5 I810 H5
3756 D5 I813 A6
3758 F7 I814 C3
3759 I6 I815 C5
3760 D15 I820 D5
3761 B14
3826 L3
3827 L3
3856 J18
3857 J17
3858 K18
3859 K17
3860 L18
3861 L18
3903 C5
3905 E6
3909 A9
3922 H3
3923 H4
3924 H4
3925 I4
3926 I4
3927 I3

SSB: (FEM) Falconic Embedded Memory

FEM
FALCONIC EMBEDDED MEMORY



8204 000 8343.4

E_14620_086.eps
070704

SSB: Eagle

B3C EAGLE

B3C

Φ VIDEO ENHANCEMENT PROCESSOR

EAGLE - IC

Φ DRAM 512K X 16 X 2

8204 000 8343.4

E_14620_087.eps 070704

2750 A3	3802 D8	I732 E1	
2751 A3	3803 D13	I733 F1	
2752 A3	3804 D13	I734 F12	
2753 A3	3811 H8	I735 C7	
2755 A3	3812 H8	I736 C10	
2756 A3	3814 H8	I806 H6	
2758 A9	3815 H8	I808 E6	
2759 A3	3817 H9	I809 E6	
2760 A5	3818 H9	I811 E6	
2761 A5	3819 H1	I812 E6	
2762 A5	3820 H1	I816 F10	
2763 A5	3821 E12	I817 D6	
2764 A5	3822 F12	I818 D6	
2765 A8	3823 F12	I819 D9	
2768 A4	3824 F12		
2769 A4	3825 F12		
2770 A4	3850 H6		
2771 A4	3894 E7		
2772 A4	3895 A8		
2773 A4	3896 A8		
2777 A4	3897 A8		
2778 A4	3898 A10		
2780 A4	3900 G7		
2781 A4	3901 G6		
2782 A5	3902 G7		
2784 A5	3906 D11		
2785 A5	3911-1 G6		
2786 D7	3911-2 G7		
2787 D9	3911-3 F6		
2788 E2	3911-4 F7		
2789 E2	3912-1 G6		
2790 E2	3912-2 G7		
2791 E2	3912-3 F7		
2793 E2	3912-4 F6		
2794 A4	3918 F7		
2795 A4	3919 F6		
2796 A4	3921 G6		
2797 A4	7717 D8		
2798 A4	7718 C9		
2799 A5	7719 B11		
2805 A3	7720 B3		
2808 A3	7721 A9		
2809 A3	7725 F10		
2812 A7	9704 H2		
2814 A10	9705 H2		
2815 A9	9711 A10		
2816 A9	9712 E1		
2821 A5	9713 G12		
2822 A5	9714 G12		
2823 E8	9715 G6		
2824 E2	9716 E7		
2825 D8	9717 F12		
2827 E8	9718 G12		
2830 B11	9719 G12		
2831 B11	9721 G12		
2832 B12	9723 E1		
2833 B12	9730 B9		
2834 B12	9731 C8		
2835 B12	9732 C8		
2925 H6	9740 F2		
2936 E11	9750 C8		
3729 B9	9751 C9		
3744 F11	9752 D10		
3745 G10	9753 D6		
3757 E8	9754 D6		
3762 C13	9755 E2		
3763 C13	9756 E2		
3764 C13	9757 E2		
3765 C9	9758 E2		
3766 C8	9759 E6		
3767 C13	9760 E6		
3768 C13	9761 E6		
3769 C13	9762 F6		
3770 C13	9763 F1		
3771 C7	9764 F8		
3772 C7	9765 F2		
3773 C7	9766 F2		
3774 C13	9773 F6		
3775 C13	9774 F6		
3776 D7	9775 F6		
3777 D13	9821 B10		
3778 D11	9822 A10		
3779 D13	9823 G7		
3780 D13	F714 C8		
3781 D13	F715 C9		
3782 D8	F718 E8		
3783 D9	F720 F9		
3784 D13	F765 G8		
3792 E7	F766 G8		
3793 F10	F767 G9		
3794 D7	I713 E2		
3795 E8	I714 E1		
3796 E7	I715 E6		
3797 F8	I716 E6		
3798 F1	I717 E8		
3799 F1	I719 E8		
3800 D7	I730 D8		
3801 D7	I731 E1		

SSB: Columbus

B3D COLUMBUS

B3D

DRAM
512K X 16 X 2
SDRAM
7753
MSM56V16160F-7TS
7752-1
COLUMBUS
COLUMBUS_IO
Memory Interface
3D Comb
SWAN 3D Noise Reduct
MUX
656 Decod
656 Encod
7752-2
COLUMBUS
COLUMBUS_CTRL
VDDS
VDDC
VSS

(ONLY FOR 3D COMB)

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2792 G10
2819 H3
2836 H3
2850 A1
2851 A1
2852 A1
2853 A2
2854 A2
2855 A2
2856 G2
2857 G2
2858 G2
2859 G2
2860 G3
2861 G3
2862 G3
2863 G3
2864 G4
2865 H2
2866 H2
2867 H2
2868 H2
2869 H3
2870 H3
3830 B11
3831 B10
3832 B11
3833 B11
3834 B10
3835 B11
3836 B11
3837 B10
3838 B11
3839 B10
3840 B11
3841 C11
3842 C10
3843 C11
3844 C11
3845 C10
3846 D1
3847 G5
3848 G6
3849 H10
3851 H10
3853 H5
3854 H6
3855 I6
3913-1 D10
3913-2 C10
3913-3 C10
3913-4 C10
3914-1 C10
3914-2 D10
3914-3 D10
3914-4 D10
3915-1 C10
3915-2 C10
3915-3 E10
3915-4 E10
3916-1 E10
3916-2 D10
3916-3 D10
3916-4 C10
3917-1 D10
3917-2 D10
3917-3 D10
3917-4 D10
5800 F10
7752-1 A7
7752-2 G6
7753 C3
9722 H11
9800 D2
9801 D2
9802 D2
9803 D2
9804 G6
9805 G6
9806 H5
9807 H5
9812 B6
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9818 H11
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F736 H10
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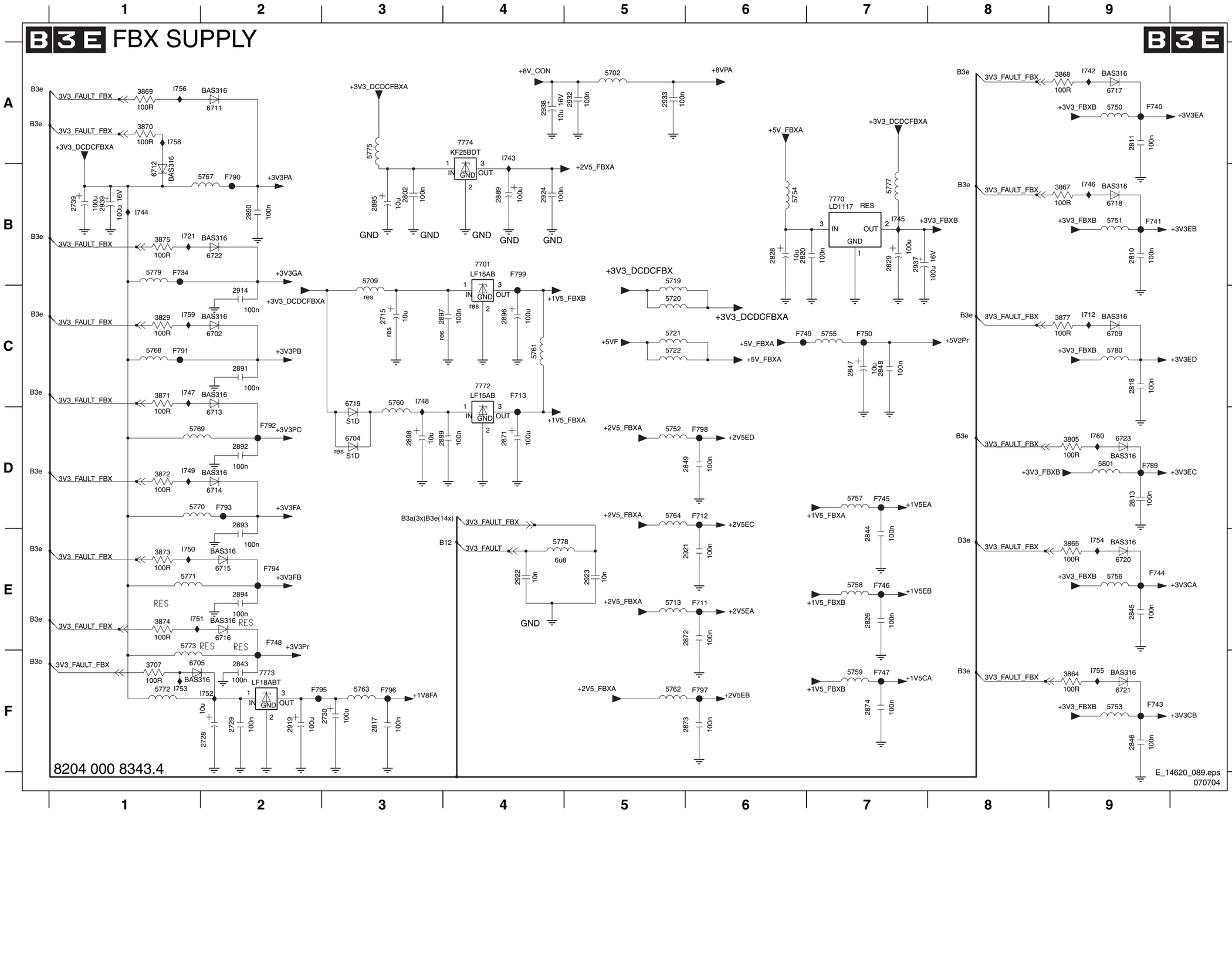
I801 G6
I807 I6

SSB: FBX Supply



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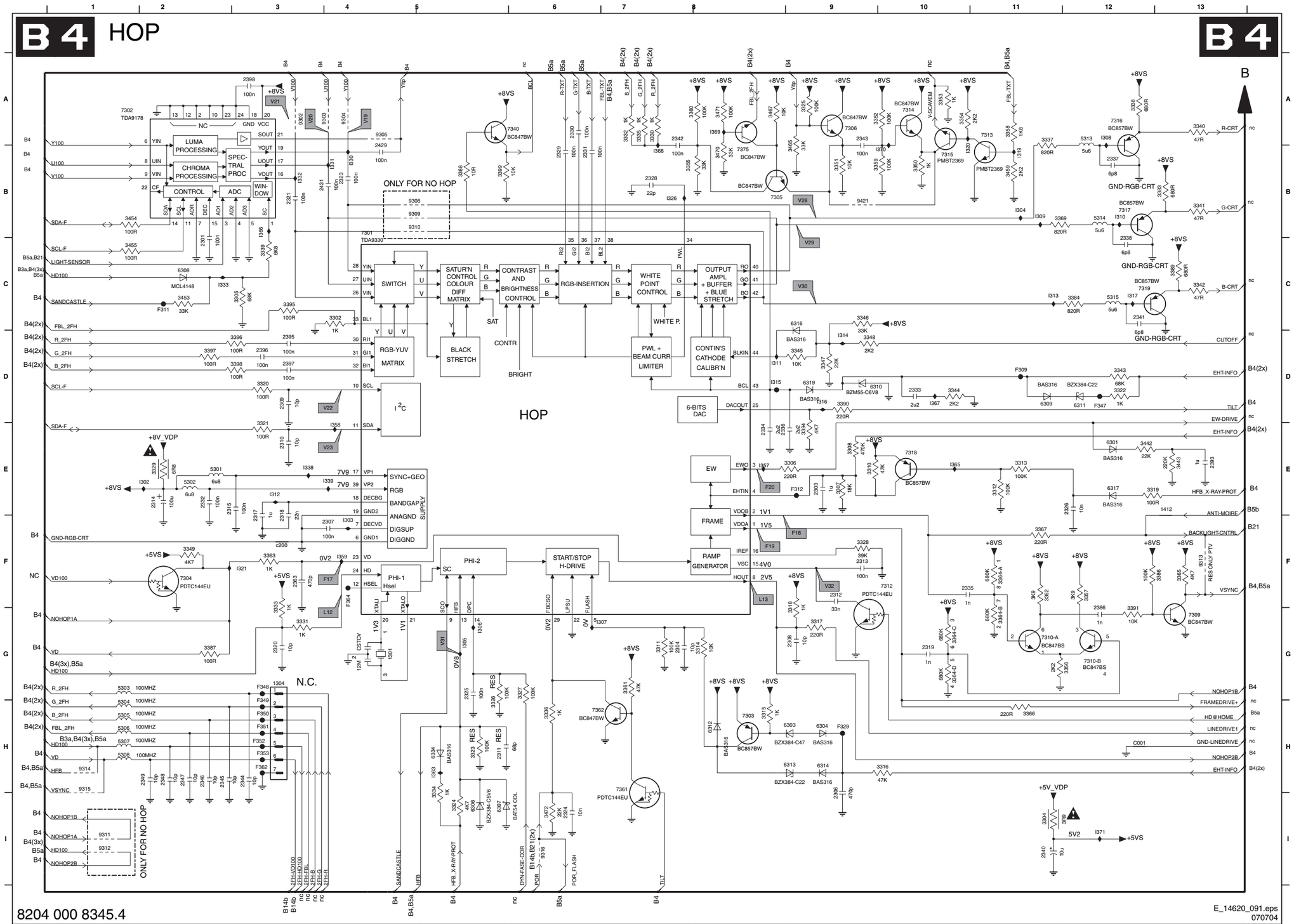
2728 F2 5779 B1
2729 F2 5780 C9
2730 F3 5801 D9
2739 B1 6702 C2
2802 B3 6704 D3
2810 B9 6705 F1
2811 A9 6709 C9
2813 D9 6711 A2
2817 F3 6712 B1
2818 C9 6713 D2
2820 B6 6714 D2
2826 E7 6715 E2
2828 B6 6716 E2
2829 B7 6717 A9
2843 F2 6718 B9
2844 E7 6719 C3
2845 E9 6720 E9
2846 F9 6721 F9
2847 C7 6722 B2
2848 C7 6723 D9
2849 D6 7701 B4
2871 D4 7770 B7
2872 E6 7772 C4
2873 F6 7773 F2
2874 F7 7774 A4
2889 B4 F711 E6
2890 B2 F712 D6
2891 C2 F713 C4
2892 D2 F734 B1
2893 D2 F740 A9
2894 E2 F741 B9
2895 B3 F743 F9
2896 C4 F744 E9
2897 C4 F745 D7
2898 D3 F746 E7
2899 D4 F747 F7
2914 C2 F748 E2
2919 F2 F749 C6
2921 E6 F750 C7
2922 E4 F789 D9
2923 E5 F790 B2
2924 B4 F791 C1
2932 A5 F792 D2
2933 A5 F793 D2
2937 B7 F794 E2
2938 A4 F795 F2
2939 B1 F796 F3
3707 F1 F797 F6
3805 D9 F798 D6
3829 C1 F799 B4
3864 F9 I712 C9
3865 E9 I721 B1
3867 B9 I742 A9
3868 A9 I743 A4
3869 A1 I744 B1
3870 A1 I745 B7
3871 C1 I746 B9
3872 D1 I747 C1
3873 E1 I748 C3
3874 E1 I749 D1
3875 B1 I750 E1
3877 C9 I751 E1
5702 A5 I752 F2
5709 B3 I753 F1
5713 E5 I754 E9
5719 B5 I755 F9
5720 C5 I756 A1
5721 C5 I758 A1
5722 C5 I759 C1
5750 A9 I760 D9
5751 B9
5752 D5
5753 F9
5754 B6
5755 C7
5756 E9
5757 D7
5758 E7
5759 F7
5760 C3
5761 C4
5762 F5
5763 F3
5764 D5
5767 B2
5768 C1
5769 D1
5770 D1
5771 E1
5772 F1
5773 E1
5775 A3
5777 B7

SSB: HOP



1301 G4	3342 C13	7314 A10	
1304 G3	3343 D12	7315 B10	
1412 E13	3344 D10	7316 A12	
2301 C2	3345 D9	7317 B12	
2303 E9	3346 C9	7318 E10	
2304 G7	3347 D9	7319 C12	
2306 I9	3348 D9	7340 A5	
2307 F4	3349 F2	7361 H7	
2308 G9	3350 B10	7362 H7	
2309 D3	3351 B9	7375 B8	
2310 E3	3352 A9	9302 A3	
2311 H5	3353 A10	9303 A4	
2312 F9	3354 A10	9304 A4	
2313 F9	3355 B7	9305 A4	
2314 E2	3356 G12	9308 B4	
2315 E2	3357 F12	9309 B4	
2317 F3	3358 A11	9310 B4	
2318 F3	3359 B9	9311 I1	
2319 G10	3360 A7	9312 I1	
2320 G3	3361 G7	9313 F13	
2321 B3	3362 F11	9314 H1	
2323 B4	3363 F3	9315 H1	
2324 I6	3364-A F11	9316 I6	
2325 G5	3364-B G11	9421 B9	
2326 E12	3364-C G10	C001 H12	
2328 B7	3364-D G10	F309 D11	
2329 B6	3365 F13	F311 C2	
2330 A6	3366 H11	F312 E9	
2331 B6	3367 F11	F329 H9	
2332 E2	3369 B11	F347 D12	
2333 D10	3383 B13	F348 G3	
2334 E8	3384 C12	F349 H3	
2335 F10	3386 F13	F350 H3	
2336 E8	3387 G2	F351 H3	
2337 B12	3388 B5	F352 H3	
2338 C12	3389 C13	F353 H3	
2340 I11	3390 D9	F362 H3	
2341 C12	3391 G12	F364 F4	
2342 A7	3394 E9	I302 E2	
2343 A9	3395 C3	I303 F4	
2344 H3	3396 D3	I304 B11	
2345 H2	3397 D2	I305 G5	
2346 H2	3398 D3	I306 G5	
2347 H2	3399 B5	I307 G7	
2348 H2	3442 E12	I308 A12	
2349 H2	3443 E13	I309 B11	
2363 F3	3453 C2	I310 B12	
2386 G12	3454 B1	I311 D8	
2393 E13	3455 C1	I312 E3	
2395 D3	3459 B11	I313 C11	
2396 D3	3465 B9	I314 D9	
2397 D3	3467 A8	I315 D8	
2398 A3	3470 B8	I316 D9	
2429 B4	3471 A8	I317 C12	
2431 B3	3472 I6	I319 B11	
3302 C4	5301 E2	I320 B10	
3304 I11	5302 E2	I321 F3	
3305 C3	5303 G1	I326 B7	
3306 E9	5304 H1	I330 B4	
3307 E9	5305 H1	I331 B4	
3308 E9	5306 H1	I332 B3	
3310 E9	5307 H1	I333 C2	
3311 G7	5308 H1	I338 E3	
3312 E11	5313 A12	I339 E4	
3313 E11	5314 B12	I357 E8	
3314 G8	5315 C12	I358 E4	
3315 H8	6301 E12	I359 F4	
3316 H10	6303 H9	I363 H5	
3317 G9	6304 H9	I365 E10	
3318 F9	6306 I5	I366 B3	
3319 E12	6307 I5	I367 D10	
3320 D3	6308 C2	I368 B7	
3321 E3	6309 D11	I369 A8	
3322 D12	6310 D9	I370 B10	
3323 H5	6311 D12	I371 I12	
3324 I5	6312 H8	c200 F3	
3325 A9	6313 H9		
3326 H5	6314 H9		
3327 G6	6316 C9		
3328 F9	6317 E12		
3329 E2	6319 D9		
3330 A7	6334 H5		
3331 G3	7301 B4		
3332 A7	7302 A1		
3333 F3	7303 H8		
3334 H5	7304 F2		
3335 A7	7305 B8		
3336 H6	7306 A9		
3337 A11	7309 G13		
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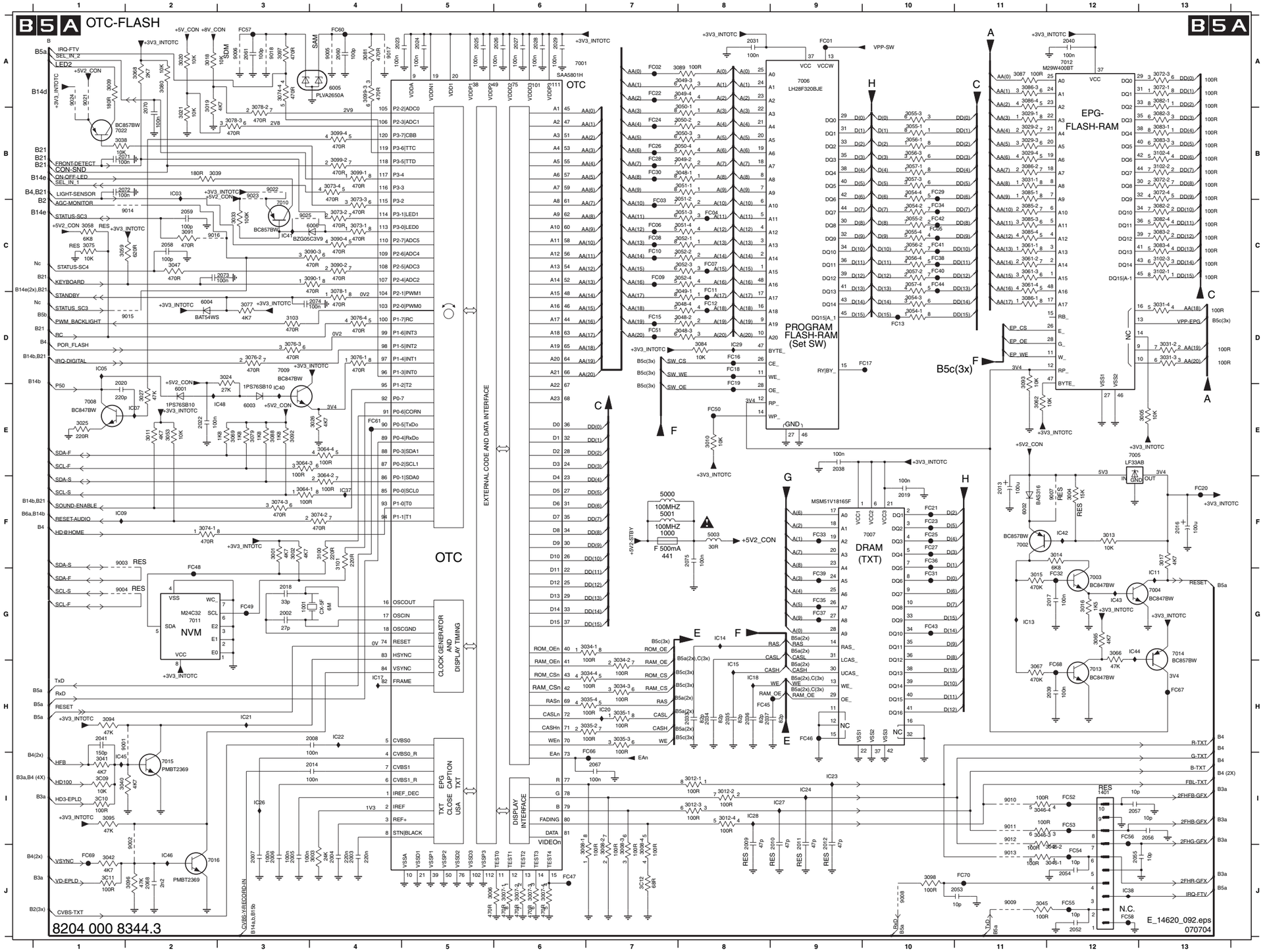
3339 C3	7310-B G12		
3340 A13	7312 F10		
3341 B13	7313 A11		

SSB: OTC-Flash



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1001 G3	3031-2 D13	3078-2 B3	9018 A3	IC44 G12
1401 I12	3031-3 D13	3078-3 B3	9021 A1	IC45 I1
2002 G3	3031-4 D13	3079 E3	9022 B3	IC46 J2
2003 J4	3033 C3	3080 A2	9023 B3	IC48 E3
2004 J4	3034-1 G7	3081 A4	9024 A1	
2005 J3	3034-2 H7	3082-1 A13	9025 C3	
2006 J3	3034-3 H7	3082-2 C13	FC01 A9	
2007 J3	3034-4 H7	3082-3 B13	FC02 A7	
2008 H4	3035-1 H7	3082-4 C13	FC03 C7	
2009 I8	3035-2 H7	3083-1 B13	FC04 C8	
2010 I9	3035-3 H7	3083-2 C13	FC05 C10	
2011 I9	3035-4 H7	3083-3 B13	FC06 C7	
2012 I9	3038 B1	3083-4 C13	FC07 C8	
2013 F11	3039 B2	3084 D8	FC08 C7	
2014 I4	3040 I1	3085-1 B11	FC09 C7	
2016 F13	3041 I1	3085-2 C11	FC10 C7	
2017 G12	3042 J1	3085-3 C11	FC11 D8	
2018 G3	3045 J11	3085-4 C11	FC12 D8	
2019 F10	3046-1 J12	3086-1 D11	FC13 D10	
2020 E1	3046-2 J12	3086-2 B11	FC15 D7	
2022 E2	3046-3 I11	3086-3 A11	FC16 D8	
2023 A4	3046-4 I11	3086-4 A11	FC17 D10	
2024 A5	3047 C2	3087 A11	FC18 D8	
2025 A5	3048-1 B8	3088 E3	FC19 E8	
2026 A6	3048-2 D8	3089 A8	FC20 F13	
2027 A6	3048-3 D8	3090-1 C4	FC21 F10	
2028 A6	3048-4 D8	3090-2 C4	FC22 A7	
2029 A6	3049-1 D8	3090-3 C4	FC23 F10	
2031 A8	3049-2 B8	3090-4 C4	FC24 B7	
2033 H8	3049-3 A8	3091 C2	FC25 F10	
2034 H8	3049-4 A8	3092 E3	FC26 B7	
2035 H8	3050-1 B8	3093 D11	FC27 F10	
2036 H8	3050-2 B8	3094 H1	FC28 B7	
2037 H8	3050-3 B8	3095 I1	FC29 B10	
2038 E9	3050-4 B8	3096 J2	FC30 B7	
2039 H12	3051-1 B8	3097 A3	FC31 G10	
2040 A12	3051-2 C8	3098 J10	FC32 G12	
2041 H1	3051-3 C8	3099-1 B4	FC33 F9	
2052 J12	3051-4 C8	3099-2 B4	FC34 C10	
2053 J11	3052-1 C8	3099-3 A4	FC35 G9	
2054 J12	3052-2 C8	3099-4 B4	FC36 F10	
2055 J12	3052-3 C8	3100 F4	FC37 G9	
2056 I13	3052-4 C8	3101 F4	FC38 C10	
2057 I12	3053 E2	3102-1 C13	FC39 G9	
2058 C2	3054-1 D10	3102-2 B13	FC40 C10	
2059 C2	3054-2 C10	3102-3 C13	FC41 C10	
2060 A4	3054-3 D10	3102-4 B13	FC42 C10	
2061 A3	3054-4 B10	3103 D3	FC43 G10	
2067 I7	3055-1 B10	3C09 I1	FC44 C10	
2068 J2	3055-2 C10	3C10 I1	FC45 H8	
2070 B2	3055-3 B10	3C11 J1	FC46 H9	
2071 B1	3055-4 C10	3C12 J7	FC47 J6	
2072 B1	3056-1 B10	5000 F7	FC48 G2	
2073 C3	3056-2 C10	5001 F7	FC49 G3	
2074 D4	3056-3 B10	5003 F8	FC50 E8	
2075 F8	3056-4 C10	6001 E2	FC51 D7	
3001 F3	3057-1 B10	6002 F11	FC52 I12	
3002 F3	3057-2 C10	6003 E3	FC53 I12	
3003 J4	3057-3 B10	6004 D2	FC54 J12	
3004 F12	3057-4 C10	6005 A4	FC55 J12	
3005 E13	3058 C1	6006 C4	FC56 I12	
3006 J5	3059 C1	7001 A6	FC57 A3	
3007-1 J6	3061-1 C11	7002 F11	FC58 J12	
3007-2 J6	3061-2 C11	7003 G12	FC60 A4	
3007-3 J6	3061-3 C11	7004 G13	FC61 E4	
3007-4 J6	3061-4 C11	7005 E12	FC66 I7	
3008-1 J6	3062 E11	7006 A9	FC67 H13	
3008-2 J7	3064-1 F3	7007 F10	FC68 H12	
3008-3 J7	3064-2 F4	7008 E1	FC69 J1	
3008-4 J7	3064-3 E3	7009 D3	FC70 J11	
3009 A1	3064-4 E4	7010 C3	IC03 B2	
3010 E8	3065 G12	7011 G2	IC05 D1	
3011 E2	3066 G12	7012 A12	IC07 E2	
3012-1 I8	3067 H11	7013 H12	IC09 F1	
3012-2 I8	3068 A2	7014 G13	IC11 G13	
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3012-4 I8	3072-1 A13	7016 J2	IC14 G8	
3013 F12	3072-2 B13	7022 B1	IC15 H8	
3014 F12	3072-3 A13	9001 H2	IC17 H4	
3015 G11	3072-4 B13	9002 I2	IC18 H8	
3016 G12	3073-1 C4	9003 F1	IC20 H7	
3017 F13	3073-2 C4	9004 G1	IC21 H3	
3018 A2	3073-3 C4	9005 A4	IC22 H4	
3019 A2	3073-4 B4	9006 A3	IC23 I9	
3020 A2	3074-1 F2	9007 F12	IC24 I9	
3021 B2	3074-2 F4	9008 J10	IC26 I3	
3024 D3	3074-3 F3	9009 J11	IC27 I9	
3025 E1	3074-4 A3	9010 I11	IC28 I8	
3026 E4	3075 C1	9011 I11	IC29 D8	
3027 E2	3076-1 D4	9012 I11	IC37 F4	
3029-1 B11	3076-2 D3	9013 J11	IC38 J12	
3029-2 B11	3076-3 D3	9014 C2	IC40 E3	
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SSB: Backlight Control

2063 C3 3023 C1 3030 B2 3036 B4 3070 C3 7021-1 B4 9019 C4 IC50 B4 IC52 B2
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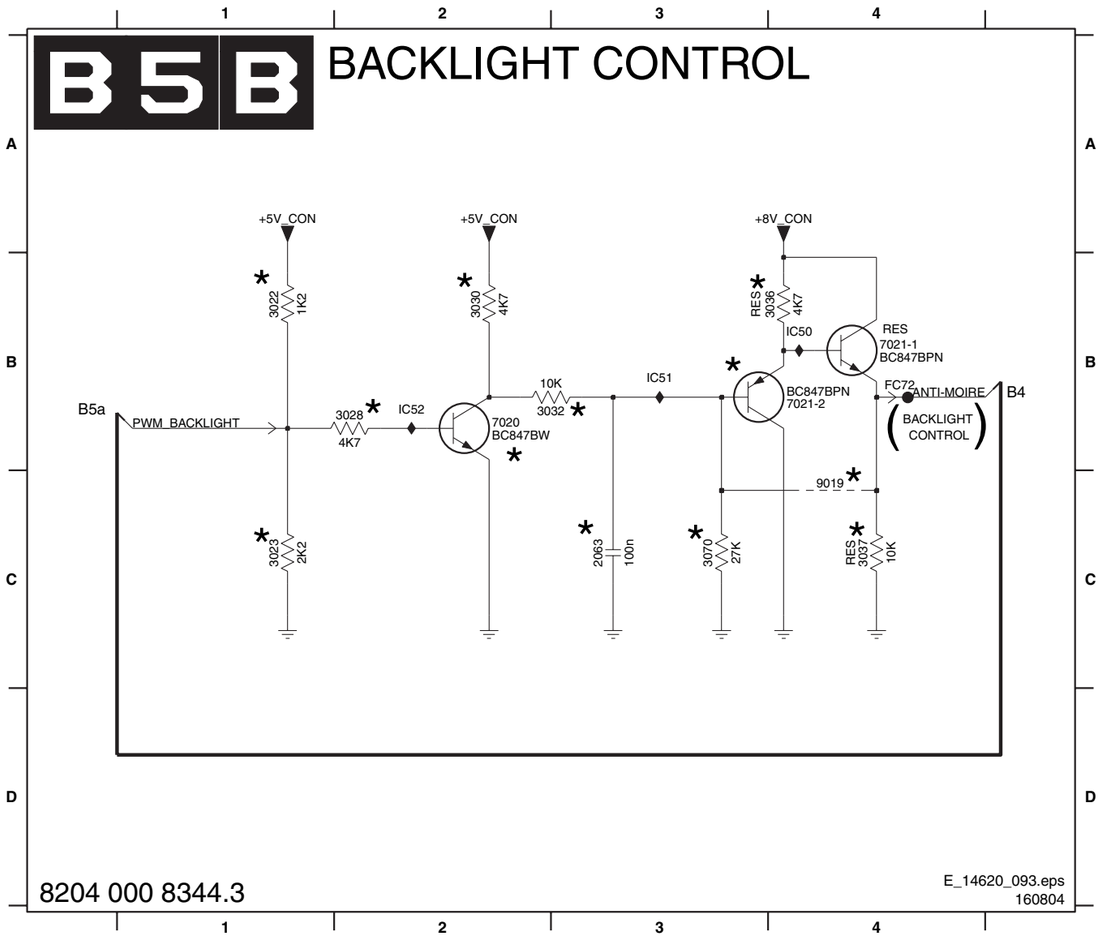

SSB: OTC-Flash

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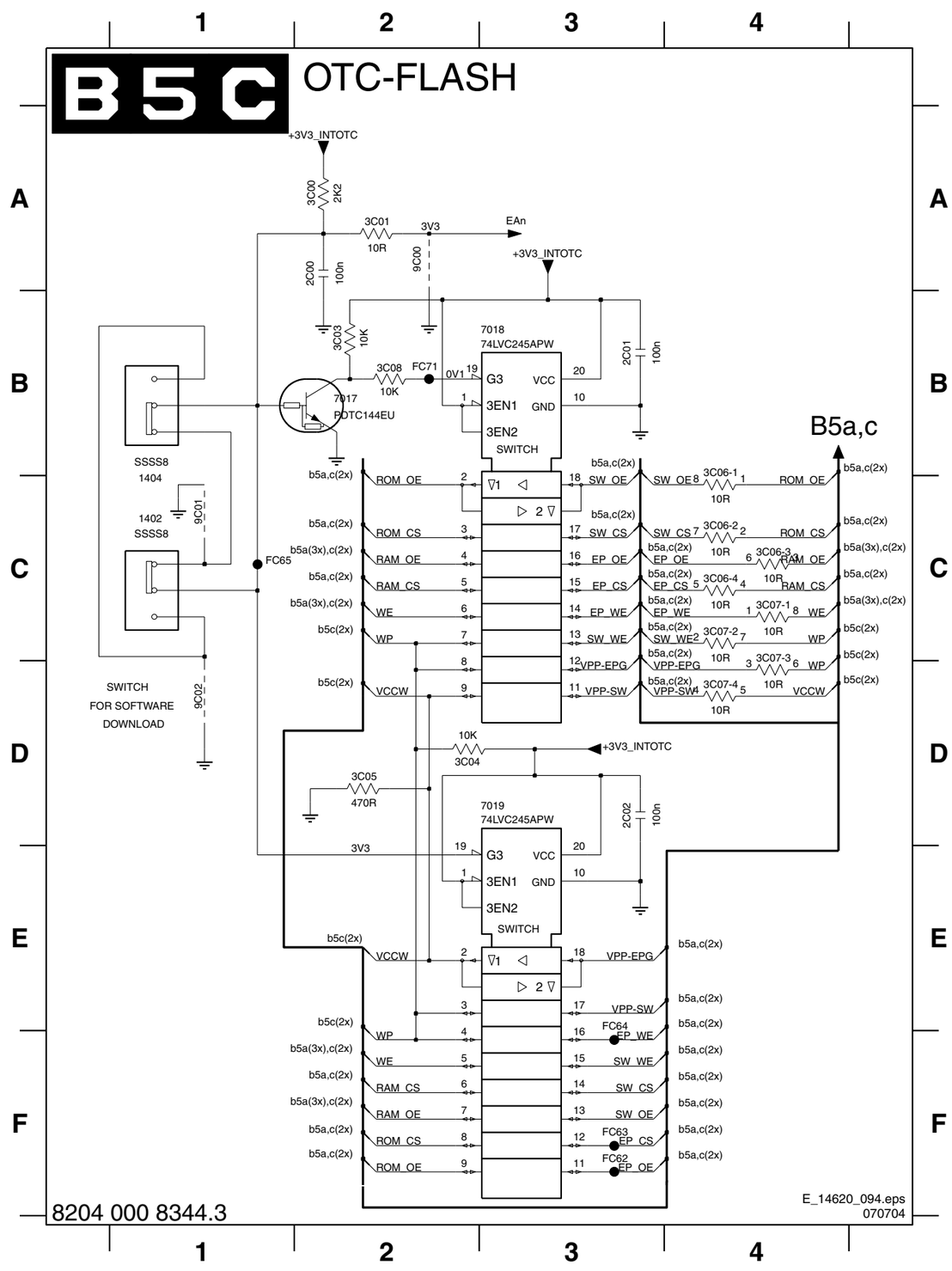
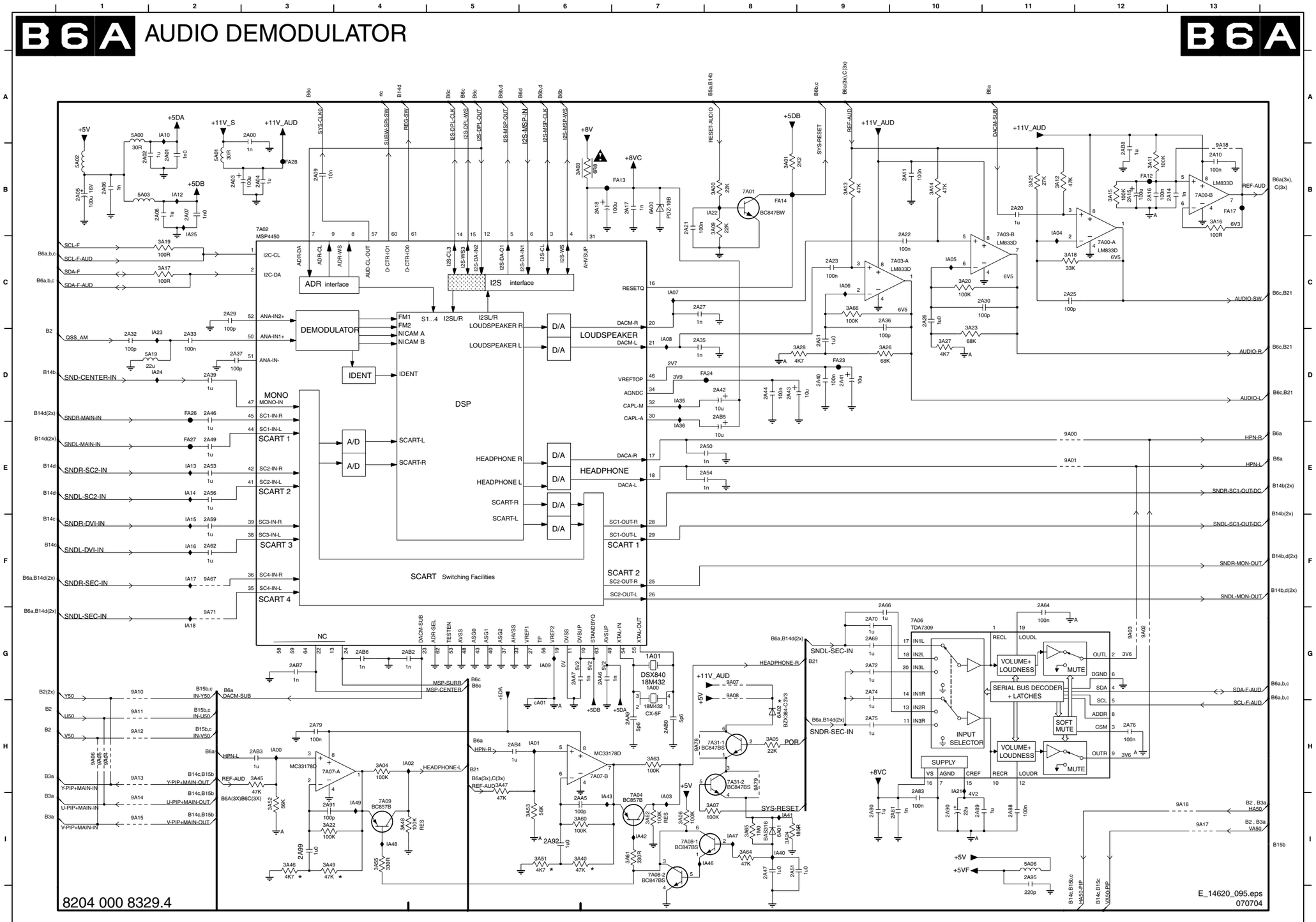
1404 B1 2C02 D3 3C03 B2 3C06-1 C4 3C06-4 C4 3C07-3 D4 7017 B2 9C00 A2 FC62 F3 FC65 C1
2C00 A2 3C00 A2 3C04 D2 3C06-2 C4 3C07-1 C4 3C07-4 D4 7018 B3 9C01 C1 FC63 F3 FC71 B2



SSB: Audio Demodulator

B6A AUDIO DEMODULATOR

B6A

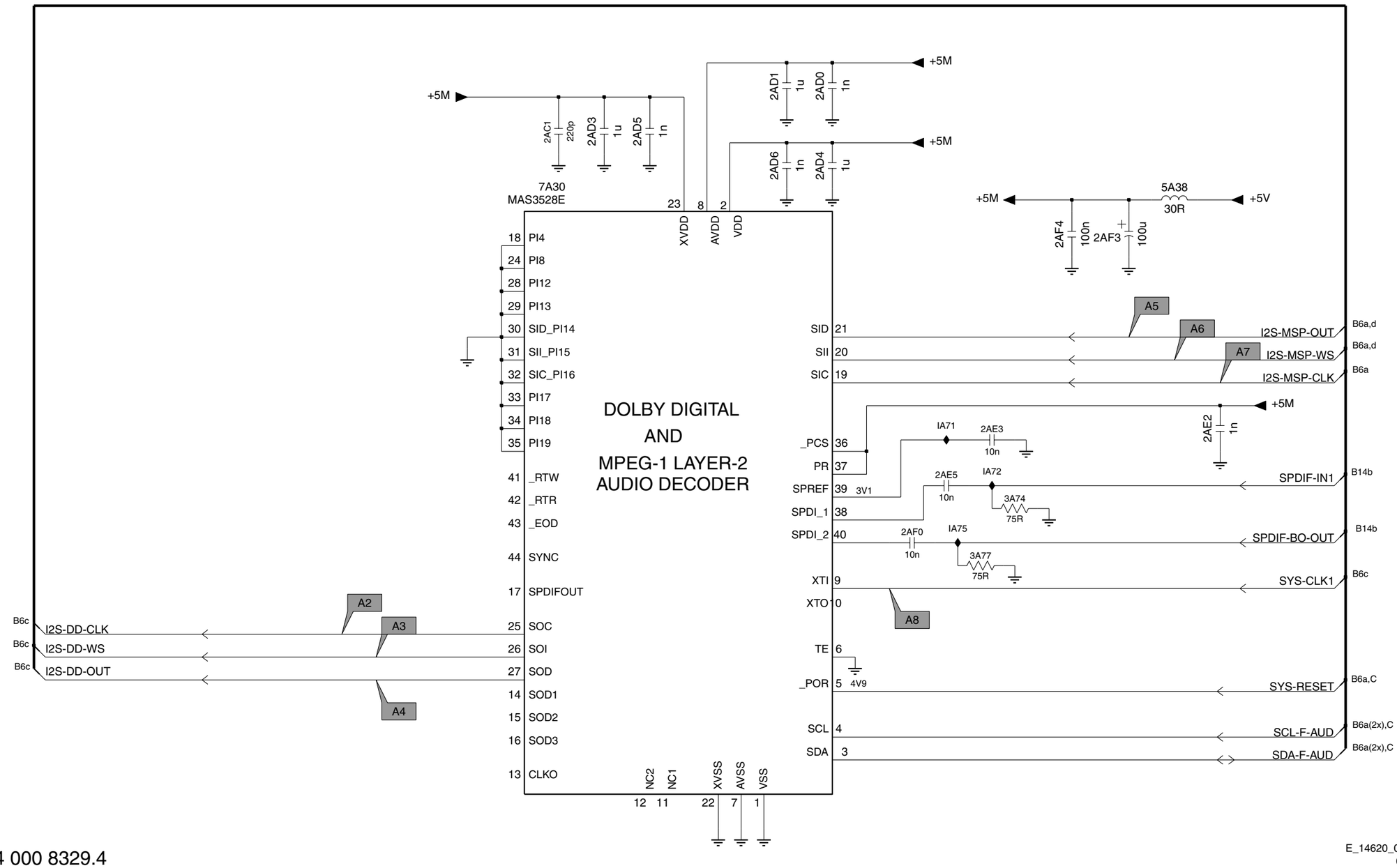


1A00 G7	3A14 B10	IA06 C9
1A01 G7	3A15 B12	IA07 C7
2A00 A3	3A16 B13	IA08 D7
2A01 B2	3A17 C2	IA09 G6
2A02 B1	3A18 C11	IA10 A2
2A03 B2	3A19 C2	IA12 B2
2A04 B3	3A20 C10	IA13 E2
2A05 B1	3A21 B11	IA14 E2
2A06 B1	3A22 I3	IA15 F2
2A07 B2	3A23 D10	IA16 F2
2A08 B2	3A24 I8	IA17 F2
2A09 B3	3A26 D9	IA18 G2
2A10 B13	3A27 D10	IA21 I10
2A11 B10	3A28 D9	IA22 B8
2A14 B13	3A40 I6	IA23 D2
2A15 B12	3A45 H3	IA24 D2
2A16 B12	3A46 I3	IA25 C2
2A17 B7	3A47 H5	IA35 D7
2A18 B6	3A48 I4	IA36 E7
2A20 B11	3A49 I3	IA40 I8
2A21 B7	3A51 I6	IA41 I8
2A22 C10	3A52 I3	IA42 I7
2A23 C9	3A53 I6	IA43 I6
2A25 C11	3A55 I4	IA46 I8
2A26 C10	3A60 I6	IA47 I8
2A27 C7	3A61 I7	IA48 I4
2A29 C2	3A62 I7	IA49 I4
2A30 C11	3A63 H7	cA01 H6
2A31 D9	3A64 I8	
2A32 D1	3A65 I8	
2A33 D2	3A66 C9	
2A35 D7	5A00 A1	
2A36 C9	5A01 B2	
2A37 D2	5A02 B1	
2A39 D2	5A03 B1	
2A40 D9	5A06 I11	
2A41 D9	5A19 D2	
2A42 D8	6A00 B7	
2A43 D8	6A01 I8	
2A44 D8	6A02 H8	
2A46 D2	7A00-A C12	
2A47 I8	7A00-B B13	
2A49 E2	7A01 B8	
2A50 E8	7A02 B3	
2A51 I8	7A03-A C10	
2A53 E2	7A03-B C11	
2A54 E8	7A04 I7	
2A56 E2	7A06 G10	
2A59 F2	7A07-A H3	
2A62 F2	7A07-B H6	
2A64 G11	7A08-1 I7	
2A66 G9	7A08-2 I7	
2A69 G9	7A09 I4	
2A70 G9	7A31-1 H8	
2A72 G9	7A31-2 H8	
2A74 G9	9A00 E11	
2A75 H9	9A01 E11	
2A76 H12	9A02 G12	
2A79 H3	9A03 G12	
2A80 I9	9A04 H1	
2A81 I10	9A05 H1	
2A83 I10	9A06 H1	
2A88 I11	9A07 G8	
2A89 I10	9A08 G8	
2A90 I10	9A10 G1	
2A91 I3	9A11 H1	
2A92 I6	9A12 H1	
2A95 I11	9A13 H1	
2AA9 I3	9A14 I1	
2AA5 I6	9A15 I1	
2AA6 G6	9A16 I13	
2AA7 G6	9A17 I13	
2AA9 H7	9A18 B13	
2AB0 H7	9A67 F2	
2AB2 G4	9A71 G2	
2AB3 H3	9A78 H7	
2AB4 H5	9A79 H8	
2AB5 D8	FA12 B12	
2AB6 G4	FA13 B7	
2AB7 G3	FA14 B8	
2AB8 B12	FA17 B13	
3A00 B8	FA23 D9	
3A01 B8	FA24 D8	
3A03 B6	FA26 D2	
3A04 H4	FA27 E2	
3A05 H8	FA28 B3	
3A06 I7	IA00 H3	
3A07 I8	IA01 H6	
3A09 B8	IA02 H4	
3A11 B12	IA03 I7	
3A12 B11	IA04 B11	
3A13 B9	IA05 C10	

SSB: Dolby Digital Decoder

DOLBY DIGITAL DECODER

2AC1 B4
2AD0 B6
2AD1 B6
2AD3 B4
2AD4 B6
2AD5 B5
2AD6 B6
2AE2 D8
2AE3 D7
2AE5 D7
2AF0 E6
2AF3 C8
2AF4 C7
3A74 D7
3A77 E7
5A38 B8
7A30 B4
IA71 D7
IA72 D7
IA75 D7



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SSB: Dolby Pro Logic Processor

B6C DOLBY PRO LOGIC PROCESSOR B6C

7A63 DPL4519G

DEMODULATOR NICAM DECODER

DSP

I2S INTERFACE

SCART Switching Facilities

AUDIO PLL

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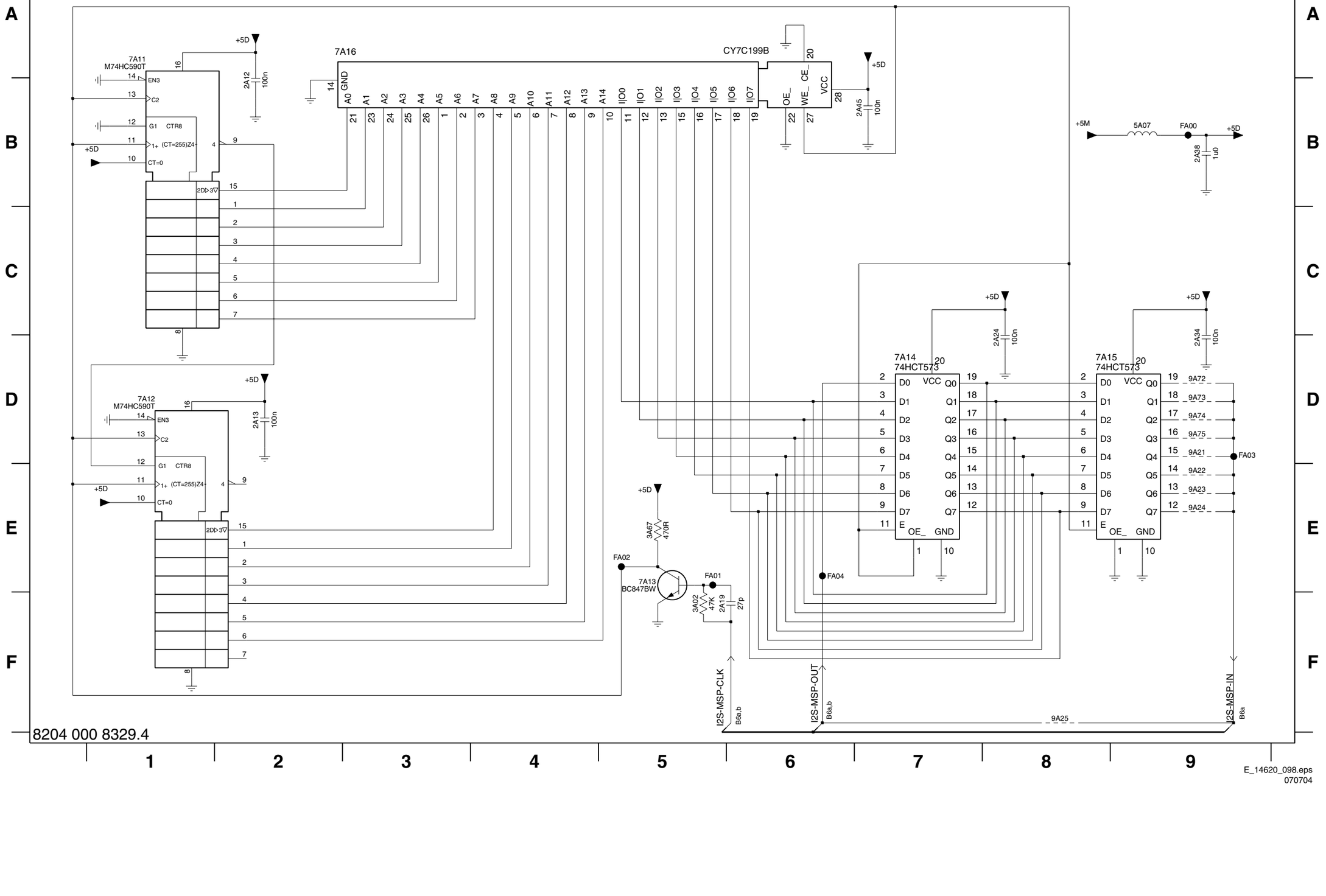
2AK0 G5
2AK1 G5
2AK2 B7
2AK3 B7
2AK4 B6
2AK5 B6
2AK6 D2
2AK7 D2
2AK8 B6
2AK9 B6
2AL0 B12
2AL1 B9
2AL2 B11
2AL3 B9
2AL4 B11
2AL8 C12
2AL9 C12
2ALA F11
2AM0 C10
2AM1 E13
2AM2 E11
2AM3 E7
2AM5 D9
2AM6 F12
2AM7 D8
2AM9 E12
2AN0 E9
2AN1 E10
2AN5 D7
2AN6 D8
2AN7 G5
3AA0 B9
3AA1 D9
3AA4 C10
3AA5 C12
3AA6 B9
3AA7 C12
3AA9 C11
3AB0 E11
3AB2 D9
3AB3 F12
3AB4 D9
3AB5 F12
3AB6 E10
3AB7 F11
3AB8 E10
3AB9 E9
3AC0 B12
3AC1 B11
7A61-A B12
7A61-B B10
7A62-A E12
7A62-B D10
7A63 C3
9A19 C13
9A20 D13
9A60 B8
9A61 F12
9A65 B10
IA50 D9
IA51 B11
IA52 B9
IA53 E12
IAA1 E12
IAA2 B8
IAA3 E9
IAA4 C9
IAA5 D2
IAA6 C11
IAA7 F11
IAA8 C6
IAA9 C7
IAB0 D7
IAB1 C9
IAB2 C12

SSB: Audio Delay

B6D AUDIO DELAY

B6D



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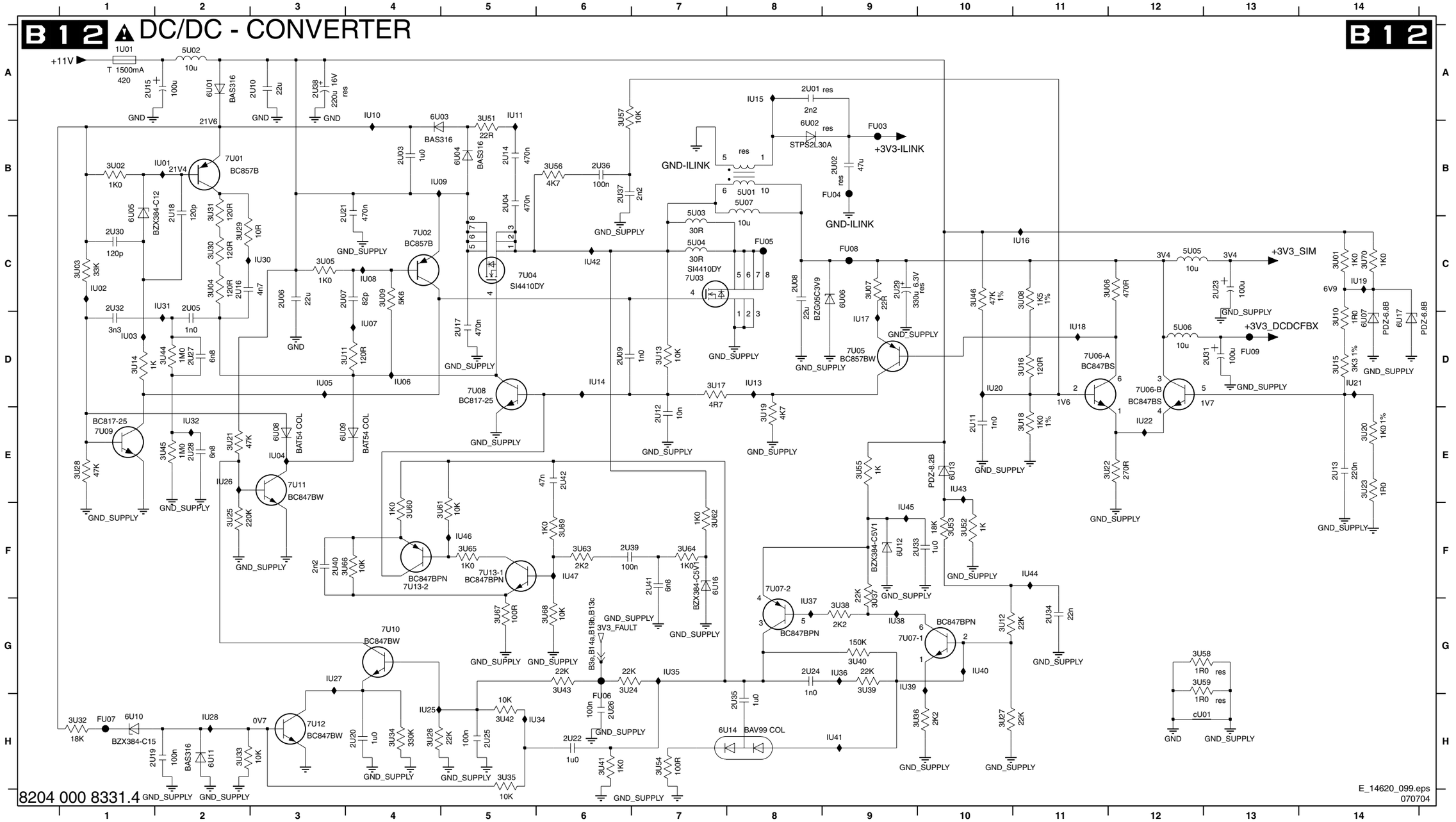
2A12 B2
2A13 D2
2A19 F5
2A24 D8
2A34 D9
2A38 B9
2A45 B7
3A02 F5
3A67 E5
5A07 B9
7A11 A1
7A12 D1
7A13 E5
7A14 D7
7A15 D8
7A16 A3
9A21 D9
9A22 E9
9A23 E9
9A24 E9
9A25 F8
9A72 D9
9A73 D9
9A74 D9
9A75 D9
FA00 B9
FA01 E5
FA02 E5
FA03 D9
FA04 E6

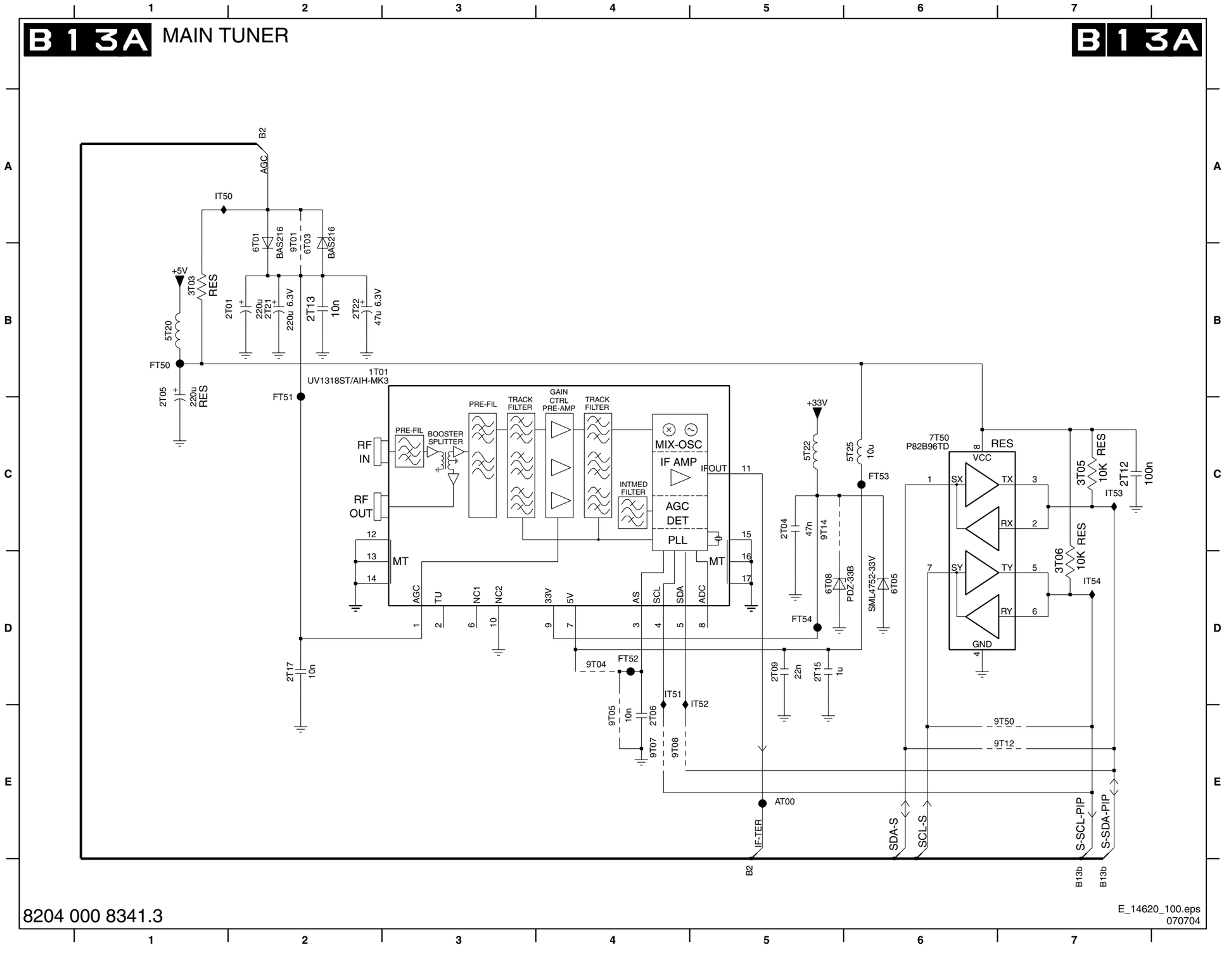
SSB: DC/DC Converter

1U01 A1	2U08 C8	2U16 C2	2U24 G8	2U32 C1	2U40 F3	3U06 C12	3U14 D1	3U22 E12	3U30 C2	3U38 G9	3U46 C10	3U58 G12	3U66 F4	5U04 C7	6U05 B1	6U13 E10	7U05 D9	7U11 E3	FU07 H1	IU06 D4	IU15 A8	IU25 H4	IU35 G7	IU43 E10
2U01 A8	2U09 D6	2U17 D5	2U25 H5	2U33 F10	2U41 F7	3U07 C9	3U15 D14	3U23 E14	3U31 B2	3U39 G9	3U51 B5	3U59 G12	3U67 G5	5U05 C12	6U06 C9	6U14 H8	7U06-A D12	7U12 H3	FU08 C9	IU07 D4	IU16 C11	IU26 E2	IU36 G9	IU44 F11
2U02 B9	2U10 A3	2U18 B2	2U26 H6	2U34 G11	3U01 C14	3U08 C11	3U16 D11	3U24 G6	3U32 H1	3U40 G9	3U52 F10	3U60 F4	3U68 G6	5U06 D12	6U07 D14	6U16 F7	7U06-B D12	7U13-1 F5	FU09 D13	IU08 C4	IU17 D9	IU27 G3	IU37 G8	IU45 F9
2U03 B4	2U11 E10	2U19 H2	2U27 D2	2U35 H8	3U02 B1	3U09 C4	3U17 D7	3U25 F2	3U33 H2	3U41 H6	3U53 F10	3U61 F5	3U69 F6	5U07 B8	6U08 E3	6U17 D14	7U07-1 G10	7U13-2 F4	IU01 B2	IU09 B4	IU18 D11	IU28 H2	IU38 G9	IU46 F5
2U04 B5	2U12 E7	2U20 H4	2U28 E2	2U36 B6	3U02 B1	3U10 D14	3U18 E11	3U26 H4	3U34 H4	3U42 H5	3U54 H7	3U62 F7	3U70 C14	6U01 A2	6U09 E3	7U01 B2	7U07-2 F8	FU03 B9	IU02 C1	IU10 A4	IU19 C14	IU30 C3	IU39 G9	IU47 F6
2U05 C2	2U13 E14	2U21 B4	2U29 C9	2U37 B6	3U03 C1	3U11 D4	3U19 E8	3U27 H10	3U35 H5	3U43 G6	3U55 E9	3U63 F6	5U01 B8	6U02 A8	6U10 H1	7U02 C4	7U08 D5	FU04 B9	IU03 D1	IU11 A5	IU20 D10	IU31 C2	IU40 G10	cU01 H12
2U06 C3	2U14 B5	2U22 H6	2U30 C1	2U38 A3	3U04 C2	3U12 G10	3U20 E14	3U28 E1	3U36 H10	3U44 D2	3U56 B6	3U64 F7	5U02 A2	6U03 A4	6U11 H2	7U03 C7	7U09 E1	FU05 C8	IU04 E3	IU13 D8	IU21 D14	IU32 E2	IU41 H9	
2U07 C4	2U15 A1	2U23 C13	2U31 D13	2U39 F6	3U05 C3	3U13 D7	3U21 E2	3U29 C2	3U37 G9	3U45 E2	3U57 A6	3U65 F5	5U03 B7	6U04 B5	6U12 F9	7U04 C5	7U10 G4	FU06 H6	IU05 D3	IU14 D6	IU22 E12	IU34 H6	IU42 C6	



SSB: Main Tuner

1T01 B3	2T05 B1	2T12 C7	2T17 D2	3T03 B1	5T20 B1	6T01 A2	6T08 D5	9T04 D4	9T08 E4	9T50 E7	FT51 C2	FT54 D5	IT52 D5
2T01 B2	2T06 E4	2T13 B2	2T21 B2	3T05 C7	5T22 C5	6T03 B2	7T50 C6	9T05 E4	9T12 E7	AT00 E5	FT52 D4	IT50 A1	IT53 C7
2T04 C5	2T09 D5	2T15 D5	2T22 B2	3T06 D7	5T25 C6	6T05 D6	9T01 A2	9T07 E4	9T14 C5	FT50 B1	FT53 C6	IT51 D4	IT54 D7



SSB: Sub Tuner

B13B SUB TUNER

B13B

1T02 C4
2T02 D6
2T03 B3
2T07 D4
2T10 D7
2T11 B4
2T14 B3
2T16 D7
2T18 D4
2T19 C6
2T20 B3
3T04 B3
5T02 C6
5T03 C7
5T04 B6
6T02 B3
6T04 B4
6T06 D6
6T07 D6
9T02 B3
9T03 D4
9T06 D4
9T09 E4
9T10 E5
FT04 C4
FT05 D6
IT07 D4
IT09 C7
IT10 A3
IT17 B6
IT18 D4
IT19 D5

B15A
AGC2
IT10
6T02 BAS216
9T02
6T04 BAS216
RES
3T04
2T03 220u
2T20 220u 6.3V
2T14 10n
2T11 47u 6.3V
+5V
5T04
IT17
1T02 UV1318S
2T19 220u
+33V
FT04
L
H
M
12 MT1
13 MT2
PLL
MT3 14
MT4 15
AGC 1
TU 2
AS 3
SCL 4
SDA 5
NC1 6
VS 7
ADC 8
VST 9
IF2 10
NC2
IF1 11
5T02
33V5
5T03 10u
IT09
2T02 47n
6T06 PDZ-33B RES
6T07 PDZ-33B RES
2T10 22n
2T16 1u
FT05
5V1
9T03
IT07
RES
2T18 10n
2T07 10n
9T06
IT18
IT19
9T09
9T10
S-SCL-PIP
S-SDA-PIP
IF-TER2
B13a
B13a
B15A

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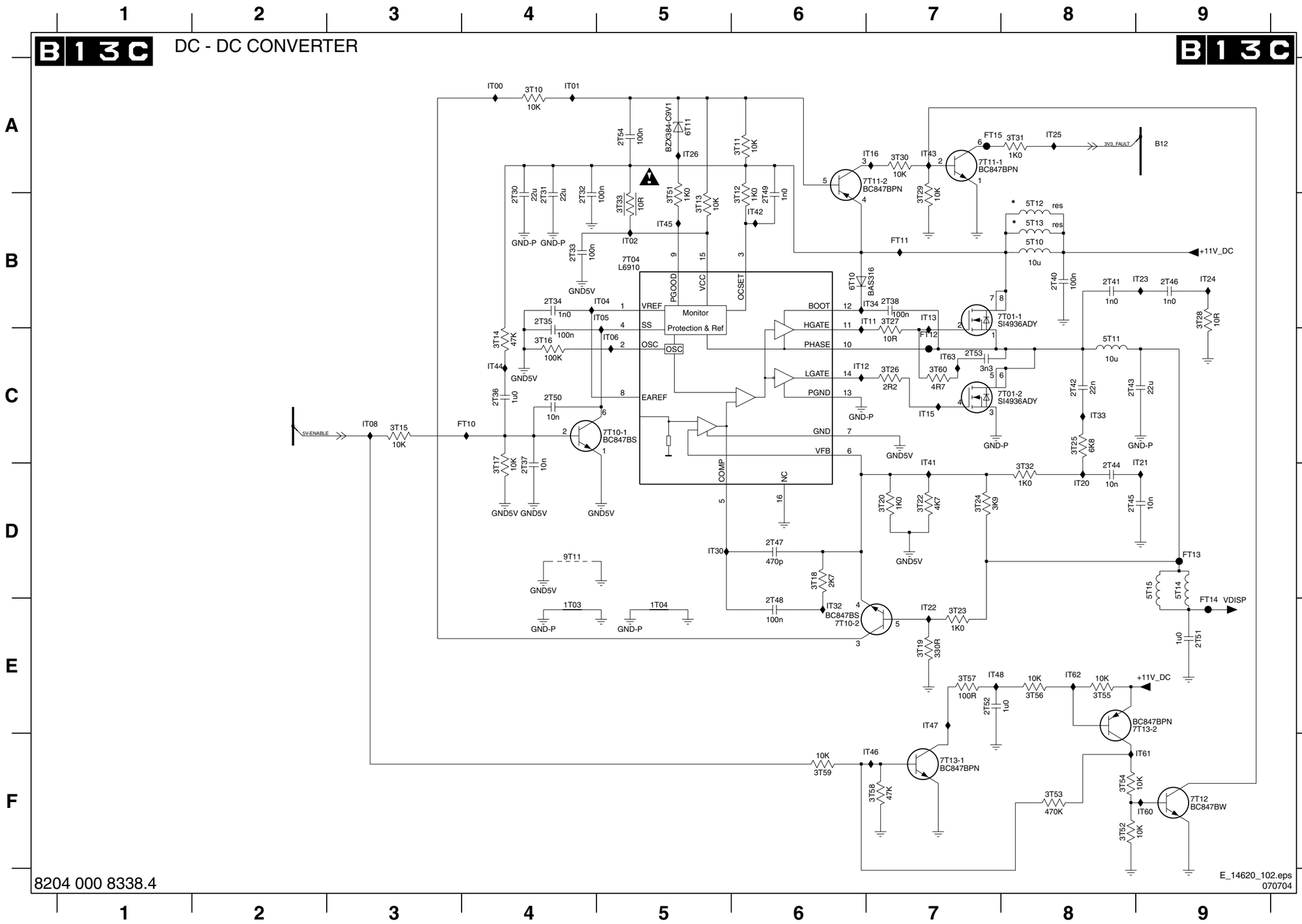
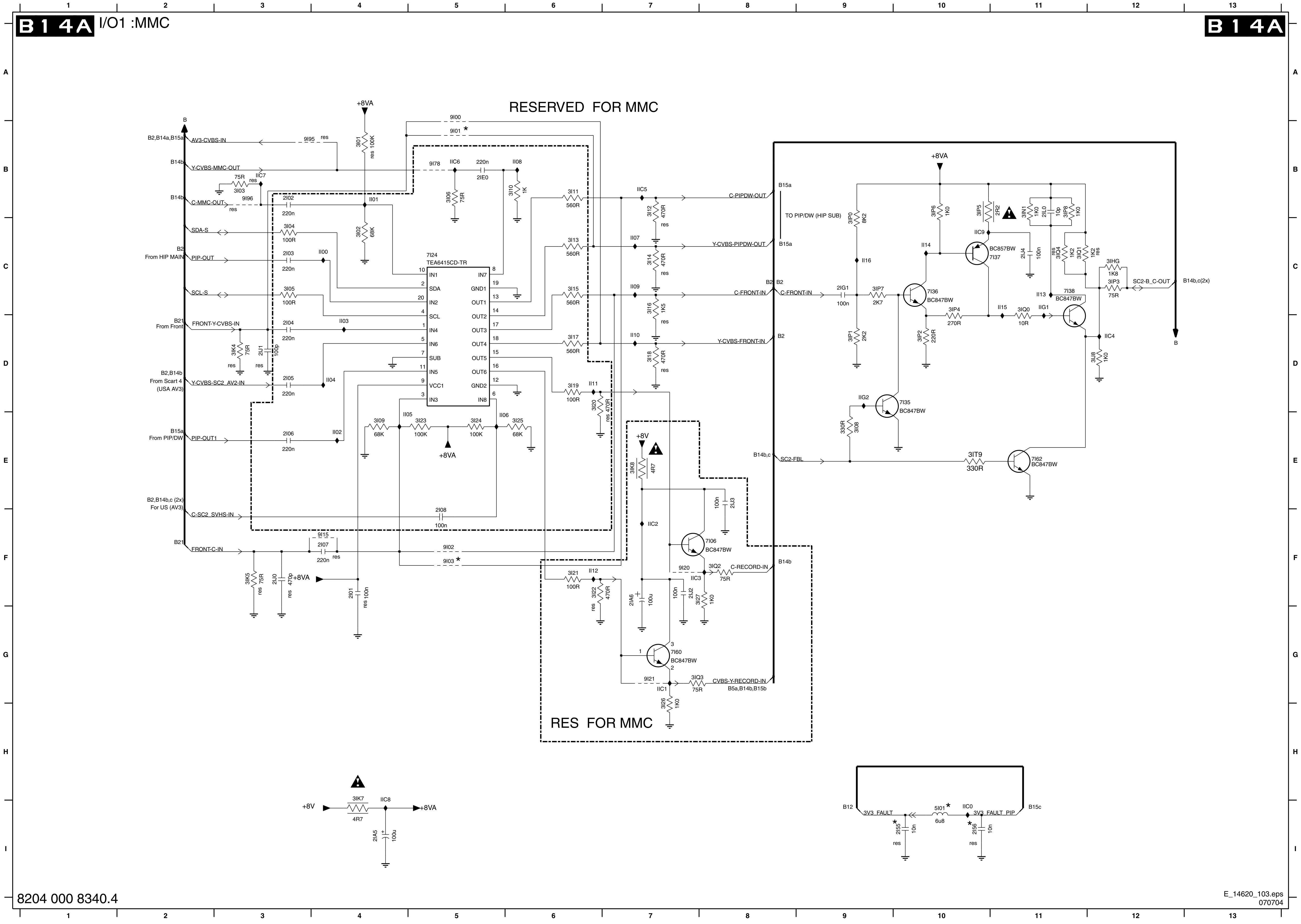
SSB: DC/DC Converter



1T03 E4
1T04 E5
2T30 B4
2T31 B4
2T32 B4
2T33 B4
2T34 B4
2T35 B4
2T36 C4
2T37 D4
2T38 B7
2T40 B8
2T41 B8
2T42 C8
2T43 C8
2T44 D8
2T45 D8
2T46 B9
2T47 D6
2T48 E6
2T49 B6
2T50 C4
2T51 E9
2T52 E7
2T53 C7
2T54 A5
3T10 A4
3T11 A6
3T12 B6
3T13 B5
3T14 C4
3T15 C3
3T16 C4
3T17 D4
3T18 D6
3T19 E7
3T20 D7
3T22 D7
3T23 E7
3T24 D7
3T25 C8
3T26 C7
3T27 B7
3T28 B9
3T29 B7
3T30 A7
3T31 A8
3T32 D8
3T33 B5
3T51 B5
3T52 F8
3T53 F8
3T54 F8
3T55 E8
3T56 E8
3T57 E7
3T58 F7
3T59 F6
3T60 C7
5T10 B8
5T11 C8
5T12 B8
5T13 B8
5T14 D9
5T15 D9
6T10 B6
6T11 A5
7T01-1 B7
7T01-2 C7
7T04 B5
7T10-1 C5
7T10-2 E6
7T11-1 A7
7T11-2 A6
7T12 F9
7T13-1 F7
7T13-2 E8
9T11 D4
FT10 C4
FT11 B7
FT12 C7
FT13 D9
FT14 E9
FT15 A7
IT00 A4
IT01 A4
IT02 B5
IT04 B5
IT05 B5
IT06 C5
IT08 C3
IT11 B7
IT12 C6
IT13 B7
IT15 C7
IT16 A7
IT20 D8
IT21 C9
IT22 E7
IT23 B9
IT24 B9
IT25 A8
IT26 A5
IT30 D5
IT32 E6
IT33 C8
IT34 B7
IT41 C7
IT42 B6
IT43 A7
IT44 C4
IT45 B5
IT46 F7
IT47 E7
IT48 E7
IT60 F9
IT61 F9
IT62 E8
IT63 C7

SSB: I/O1: MMC



2I01 F4
2I02 B3
2I03 C3
2I04 D3
2I05 D3
2I06 E3
2I07 F4
2I08 F5
2I55 I10
2I56 I10
2IA5 I4
2IA6 F7
2IE0 B5
2IG1 C9
2IJ0 F3
2IJ1 D3
2IJ2 F7
2IJ3 E8
2IJ4 C11
2IL0 B11
3I01 B4
3I02 C4
3I03 B3
3I04 C3
3I05 C3
3I06 B5
3I08 E9
3I09 E4
3I10 B6
3I11 B6
3I12 B7
3I13 C6
3I14 C7
3I15 C6
3I16 C7
3I17 D6
3I18 D7
3I19 D6
3I20 D6
3I21 F6
3I22 F6
3I23 E5
3I24 E5
3I25 E6
3I26 H7
3I27 F8
3IHG C12
3IJ8 D12
3IK4 D3
3IK5 F3
3IK7 I4
3IK8 E7
3IN1 B11
3IP0 C9
3IP1 D9
3IP2 D10
3IP3 C12
3IP4 C10
3IP5 B10
3IP6 B10
3IP7 C9
3IP8 B11
3IQ0 C11
3IQ1 C11
3IQ2 F8
3IQ3 G7
3IQ4 C11
3IT9 E10
5I01 I10
7I06 F8
7I24 C5
7I35 D10
7I36 C10
7I37 C10
7I38 C11
7I60 G7
7I62 E11
9I00 A5
9I01 B5
9I02 F5
9I03 F5
9I15 F4
9I20 F7
9I21 G7
9I78 B5
9I95 B3
9I96 B3

II00 C4
II01 B4
II02 E4
II03 D4
II04 D4
II05 E4
II06 E5
II07 C7
II08 B6
II09 C7
II10 D7
II11 D6
II12 F6
II14 C10
II15 C11
II16 C9
IIC0 I10
IIC1 G7
IIC2 F7
IIC3 F7
IIC4 D12
IIC5 B7
IIC6 B5
IIC7 B3
IIC8 H4
IIC9 C10
IIG1 C11
IIG2 D9

SSB: I/O2: Connections

B 1 4 B

I/O 2 : CONNECTIONS

B 1 4 B

SCART1

SCART2

RES

Multi Media Connector (MMC)

YKC21-3226

VARIABLE LEVEL SURROUND DOLBY DIGITAL

VARIABLE LEVEL SUBWOOFER

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1I01-1 A3	3I70 A6	6I48 B8	FI49 B7
1I01-2 E3	3I71 B5	6I49 C8	FI50 E9
1I02 C6	3I72 B6	6I50 D8	FI51 C7
1I03 D3	3I73 B6	6I51 D8	FI52 D6
1I04-1 A7	3I74 C6	6I52 D8	FI53 D7
1I04-2 E7	3I75 C6	6I53 F3	FI54 D8
1I05 F4	3I76 D6	6I54 F3	FI55 C8
1I06 I4	3I77 D6	6I55 F3	FI56 D8
1I08 D4	3I78 D6	6I56 G3	FI57 B8
1I09 H4	3I79 A8	6I57 G3	FI58 B8
1I11 E9	3I80 B8	6I58 H3	FI59 A8
1I34 A2	3I81 C8	6I59 H3	FI60 F4
1I35 B2	3I82 B8	6I60 H3	FI61 F3
1I36 C3	3I83 C8	6I61 I3	FI62 G3
1I37 B3	3I84 C8	6I62 I3	FI63 H3
1I38 A3	3I86 D8	6I68 E4	FI64 I3
1I39 A7	3I87 D8	6I69 J3	FI68 J3
1I40 B7	3I88 D8	6I70 J3	FI69 F9
1I41 C6	3I89 F2	6I75 D9	FI91 G1
1I42 D6	3I90 F3	6I77 E8	FI92 H1
1I43 D8	3I91 F2	6IA0 C3	FI93 H1
1I44 C8	3I92 F3	6IA7 I12	FI94 I8
1I45 C8	3I94 G2	7I01-A D11	FI96 F9
1I46 B8	3I95 G3	7I01-B D11	FIA9 F9
1I47 A8	3I96 H2	7I02-A E11	FIC1 H8
1I48 F4	3I97 H3	7I02-B E11	II25 A1
1I49 G4	3I98 J13	7I03-A G11	II26 B1
1I50 G4	3I99 H2	7I03-B G11	II27 C1
1I52 H4	3IA0 H3	7I04 F11	II29 B4
1I54 I4	3IA1 J13	7I05-1 H11	II32 A6
1I58 J3	3IA2 I2	7I05-2 I11	II33 B6
1I71 C2	3IA3 J2	7I07 B11	II34 D8
1I72 C2	3IA4 C11	7I09 B11	II35 B8
1I73 D2	3IA5 D11	7I21-1 F13	II36 B9
1I74 D2	3IA6 E11	7I21-2 F13	II37 A9
1I75 D7	3IA7 E11	7144-A J12	II38 E2
1I76 D8	3IA8 F11	7144-B I13	II41 H2
2I11 H11	3IA9 G11	7149 H13	II42 H2
2I12 J12	3IB0 G11	7150-1 J11	II43 I2
2I15 G13	3IB2 A4	7150-2 I11	II44 I11
2I16 A1	3IB4 B12	9I04 I7	II45 I12
2I17 B1	3IB5 B12	9I08 I7	II46 B12
2I18 B4	3IC1 C11	9I09 H7	II47 B11
2I19 B4	3IC2 I13	9I10 I8	II48 B11
2I20 C4	3IC3 I13	9I11 H7	II49 A12
2I21 B6	3IC4 B4	9I12 J8	IIA0 C1
2I22 A6	3IC6 A9	9I13 I1	IIA1 A4
2I23 B9	3IC9 F12	9I16 C9	IIA2 B4
2I24 B9	3ID0 B11	9I17 D1	IIA3 C7
2I25 C9	3ID1 F13	9I18 D4	IIA4 G2
2I26 F2	3ID7 I12	9I19 D9	IIA5 F2
2I27 G2	3ID8 J10	9I22 I7	IIA9 I12
2I28 G2	3IH1 H13	9I39 B6	IIB0 I11
2I29 H2	3IK2 A9	9I50 H11	IID0 B10
2I30 I2	3IK3 B9	9I51 F12	IID1 H12
2I31 H2	3IN5 A4	9I60 I7	IID2 H10
2I32 H2	3IN6 B4	9I92 H9	IID3 I12
2I36 J2	3IS2 B9	9I93 H7	IID4 J11
2I39 H11	3IT0 F2	9I94 G9	IID5 J13
2I46 B12	3IT1 G2	9I97 I7	IID6 I13
2I47 J13	3IT2 G2	9IA4 E12	IID7 H11
2IA4 I12	3IT3 H2	9IA5 E12	IIG3 C11
2IC0 F2	3IT4 I2	9IA6 G13	IIG4 D11
2IC1 F2	3IW4 H13	9IA7 G13	IIG5 E11
2IC2 G1	3IW5 H13	9IB1 H6	IIG6 E11
2IC9 D6	6I10 F13	9IB2 H6	IIG7 F11
2IH3 I13	6I11 H12	FI10 J9	IIG8 G11
3I07 I11	6I12 I12	FI11 I8	IIG9 G11
3I28 I1	6I13 J12	FI12 I8	IIH0 B11
3I34 I12	6I22 A2	FI13 I8	IIH1 H13
3I35 D9	6I23 A2	FI14 H8	IIH2 I11
3I36 J11	6I24 B2	FI16 G8	
3I37 H12	6I25 B2	FI18 G8	
3I38 J11	6I26 C2	FI19 G8	
3I50 A1	6I27 C2	FI20 G9	
3I51 A2	6I28 D2	FI21 H8	
3I52 B1	6I29 D2	FI22 H8	
3I53 B2	6I30 A3	FI32 A2	
3I54 B1	6I31 B3	FI33 B2	
3I55 C2	6I32 B3	FI34 B2	
3I56 C1	6I33 B3	FI35 C2	
3I57 C2	6I35 D3	FI36 C2	
3I58 C1	6I36 D4	FI37 C2	
3I59 D2	6I37 A6	FI38 C2	
3I60 D2	6I38 A6	FI39 D2	
3I61 A4	6I39 B6	FI40 D2	
3I62 B4	6I40 B6	FI41 A3	
3I63 B4	6I41 C6	FI42 B3	
3I64 C4	6I42 C6	FI43 B3	
3I65 D4	6I43 D6	FI44 D3	
3I66 D3	6I44 D6	FI45 D3	
3I67 D3	6I45 A8	FI46 A6	
3I68 D4	6I46 B8	FI47 B7	
3I69 A6	6I47 B8	FI48 B7	

SSB: IO3: Switch

B 14 C I/O3: SWITCH

B 14 C

C-SC2_SVHS-IN
SC1-R
SC1-G
SC2-G
SC1-B
SC2-B_C-OUT
R-SC1_V-IN
G-SC1-IN_Y-IN
B-SC1-IN_U-IN
SWITCH-MAIN
SWITCH-SUB
SUB-V
SUB-Y
SUB-U
SC2-FBL-IN
SC2-FBL
SC1-FBL
FBL-SC1-IN
SC1-FBL-IN
V-PIP+MAIN-OUT
Y-PIP+MAIN-OUT
U-PIP+MAIN-OUT
R-VGA
G-VGA
B-VGA
TRI-STATE-DVI
VA50-PIP
HA50-PIP
VS-2FH
HS-2FH
SNDR_DVI-IN
SNDL_DVI-IN

RESERVED

RESERVED

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2FH

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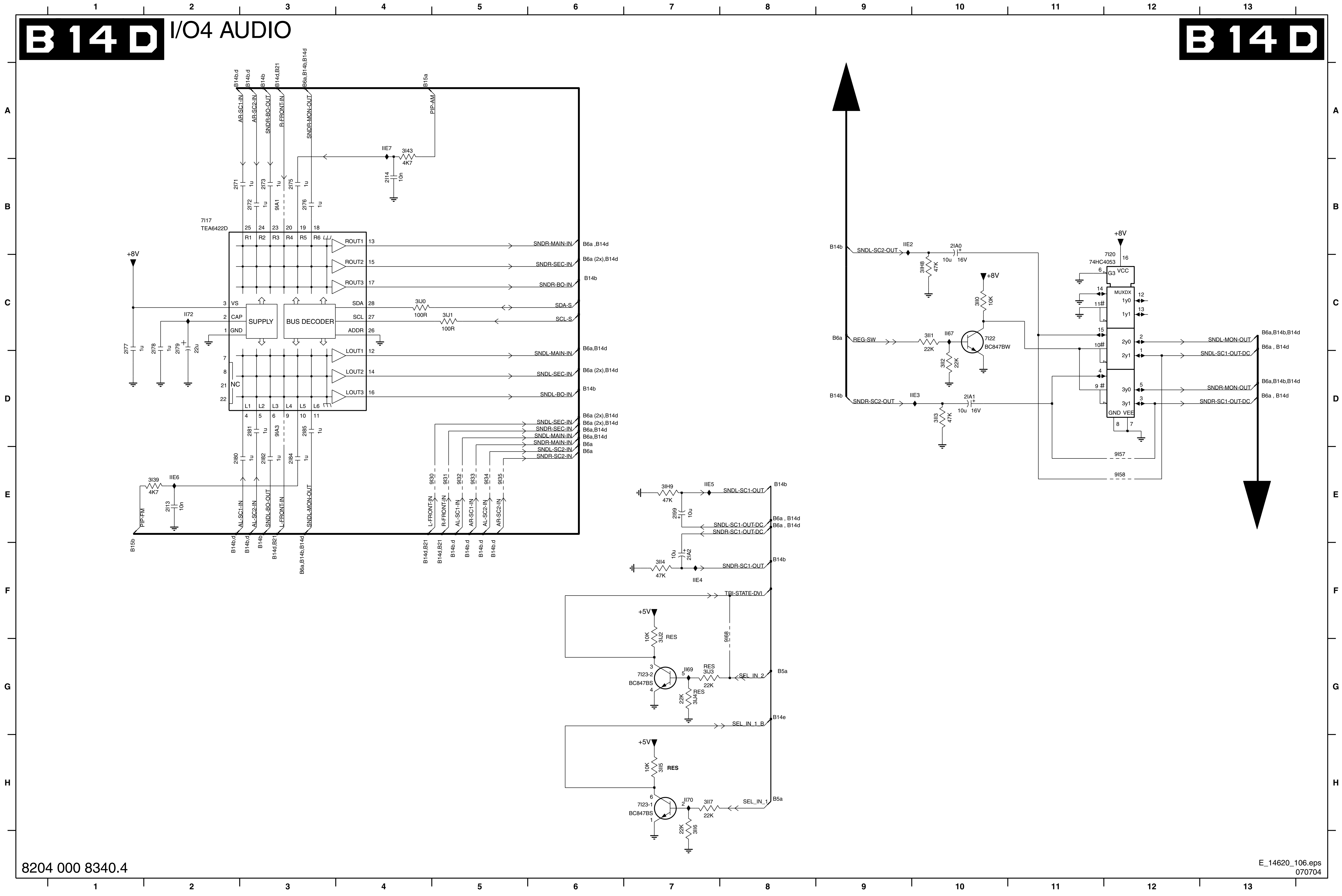
231204

1107 I2 IIB3 H3
1168 I2 IID8 G6
1169 I3 IID9 G6
2I49 D7 IIE0 H6
2I50 D3 IIE1 H11
2I57 H2 IIH3 I8
2I58 H3
2IA9 E9
2IC3 D12
2IR0 H7
2IR1 H12
3I85 B1
3I93 C1
3IC8 B4
3ID5 B3
3ID9 C4
3IE2 G3
3IE3 G2
3IE7 D3
3IE9 G2
3IF5 G3
3IF6 H3
3IF7 H2
3IFA G6
3IFB H6
3IFC H6
3IFD H11
3IFE I8
3IFF G11
3IFL I8
3IH7 D4
3IL1 A8
3IL3 B8
3IL8 C8
3IM0 C8
3IM4 D8
3IN0 D8
3IN2 B2
3IN3 C2
3IN4 E9
3IN8 E3
3IO5 B11
3IO6 A11
3IP9 D1
3IS4 B2
6I90 H2
6I91 H2
6I92 H3
6I93 H3
7I12 C3
7I26 B8
7I27 B4
7I28 C8
7I29 D4
7I30 D8
7I31 E4
7I32 D12
7I33 C7
7I80 H7
7I81 H12
7I82 I8
9I25 D7
9I26 D7
9I27 D7
9I37 A7
9I41 A12
9I42 B11
9I59 A7
9I61 A7
9I62 E2
9I63 D2
9I64 D2
9I65 A2
9I66 A2
9I67 A2
9I79 A12
9I87 G6
9I89 G6
9I90 H6
9IA2 B11
9IF0 F7
9IF1 I7
9IF2 I7
9IF3 I12
9IF4 F12
FIB0 I2
FIB1 I3
II39 G12
II50 H2
II51 H3
IIB1 E9
IIB2 H2

SSB: I/O1: Audio



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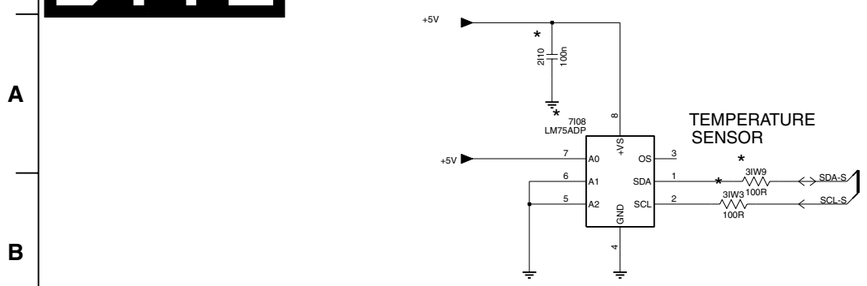
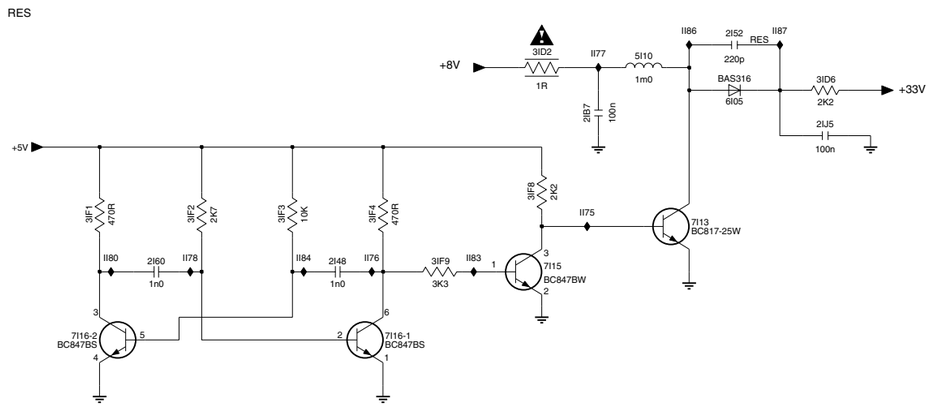
2I71 B2
2I72 B3
2I73 B3
2I75 B3
2I76 B3
2I77 C1
2I78 C2
2I79 C2
2I80 E2
2I81 D3
2I82 E3
2I84 E3
2I85 D3
2I99 E7
2IA0 B10
2IA1 D10
2IA2 F7
3I39 E2
3I43 A4
3IH8 C10
3IH9 E7
3II0 C10
3II1 C10
3II2 D10
3II3 D10
3II4 F7
3II5 H7
3II6 H7
3II7 H7
3IJ0 C4
3IJ1 C5
3IJ2 F7
3IJ3 G7
3IJ4 G7
7I17 B2
7I20 C12
7I22 C10
7I23-1 H7
7I23-2 G7
9I30 E5
9I31 E5
9I32 E5
9I33 E5
9I34 E5
9I35 E5
9I57 E12
9I58 E12
9I68 F8
9IA1 B3
9IA3 D3
II67 C10
II69 G7
II70 H7
II72 C2
IIE2 B9
IIE3 D10
IIE4 F7
IIE5 E7
IIE6 E2
IIE7 A4

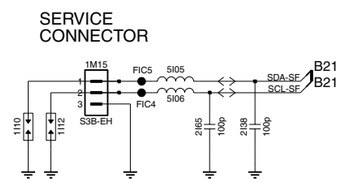
SSB: I/O5

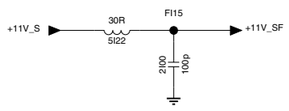
1I10 F1	2I00 G2	2I38 F2	2I60 D2	2IB7 C4	2IK6 G5	3IB3 D11	3IC0 C9	3ID4 B12	3IF2 D2	3IGA A12	3IGF C11	3IS3 H9	5I04 D10	5I22 G2	6I04 D12	7I13 D5	7I40 C11	9I99 B12	II75 D4	II80 D1	II85 D10	II95 E12	IIH4 A11
1I12 F1	2I10 A3	2I40 C10	2I62 G10	2IJ5 C6	2IK7 G6	3IB6 D8	3IC5 B9	3ID6 C6	3IF3 D2	3IGB B12	3IGH G8	3IS6 H9	5I05 F2	5I45 F5	6I05 C5	7I14 A11	7I45 C8	9ID0 G8	II76 D3	II81 B11	II86 C5	II96 D9	IIH5 B11
1I79 H3	2I33 C9	2I48 D3	2I64 G9	2IJ6 H9	2IS6 H4	3IB7 C9	3IC7 B10	3IE0 A11	3IF4 D3	3IGC A11	3IH0 A12	3IW3 B5	5I06 F2	5I46 F5	7I08 A4	7I46 C10	FI15 G2	II77 C4	II82 A11	II87 C6	IIE8 G8		
1I99 H1	2I34 D10	2I52 C5	2I65 F2	2IJ7 H9	3I00 G8	3IB8 G10	3ID2 C4	3IF0 F8	3IF8 D4	3IGD A11	3IH2 B11	3IW9 B5	5I10 C5	5I47 F6	7I10 D10	7I16-1 E3	9I05 F10	FIC4 F2	II78 D2	II83 D4	II88 B12	IIE9 G9		
1M15 F1	2I37 A10	2I59 D11	2IA3 F8	2IK5 G5	3IB1 D11	3IB9 G9	3ID3 A12	3IF1 D1	3IF9 D3	3IGE C11	3IH4 B12	5I02 D9	5I21 F8	6I03 F12	7I11 G8	7I16-2 E1	9I06 F10	FIC5 F2	II79 A12	II84 D3	II89 E11	IIF1 B13		

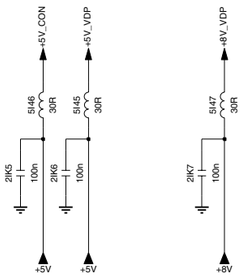
B 14 E I/O5

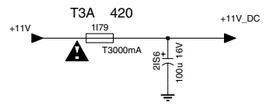


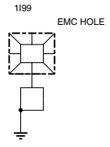


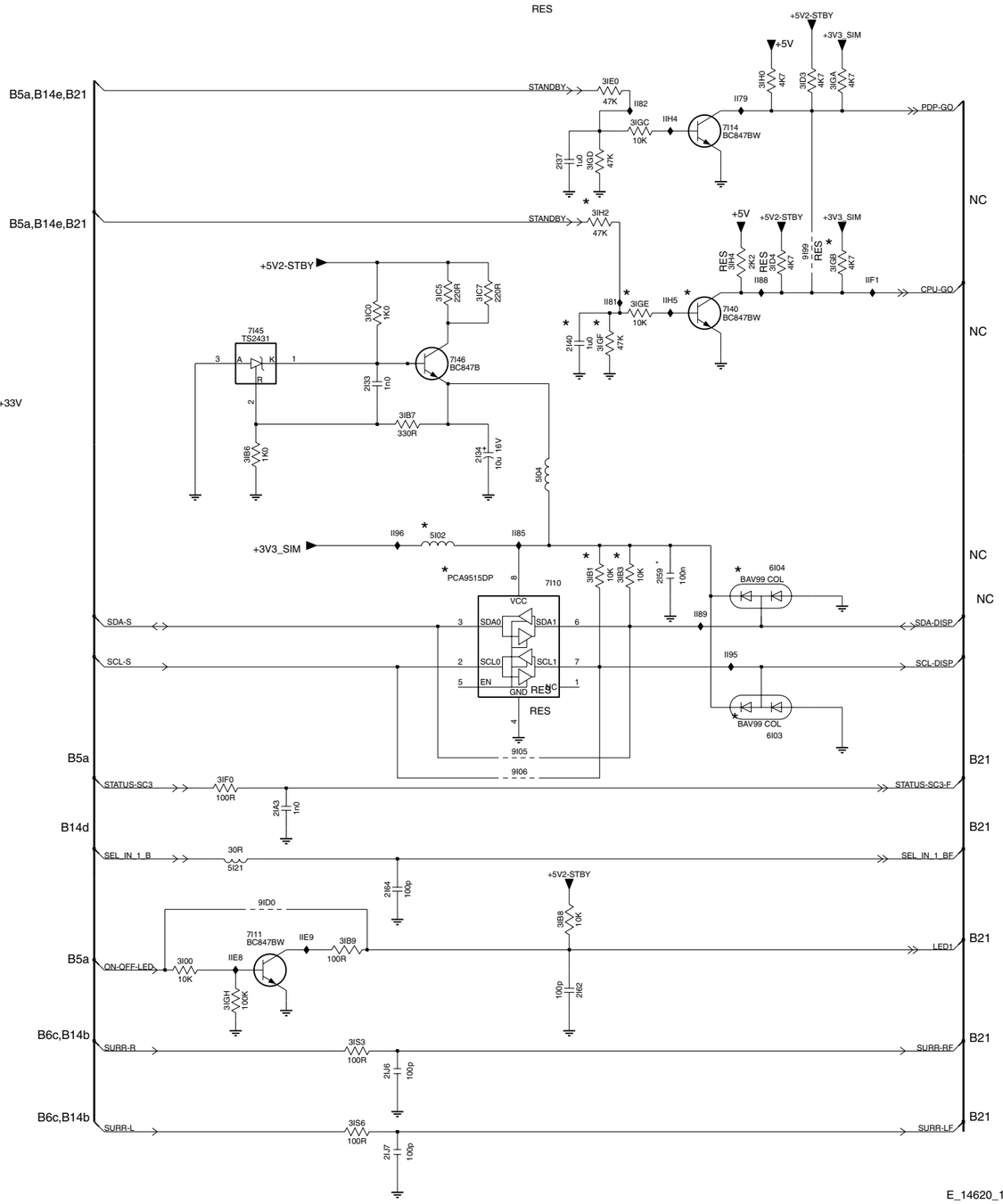












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SSB: I/O6: Digital Input

B14F I/O6 : DIGITAL INPUT

B14F

DVI INPUT CONNECTOR

DVI INPUT CONNECTOR

PANELLINK RECEIVER

DVI RECEIVER

HDCP CIPHER

FORMATTER

TRIPPLE 8-BIT DAC

EEPROM (256x8) M24C02-WDW6

DVI-PWR-DOWN

SWITCH-MAIN

TRI-STATE-DVI

HOT PLUG

H-DVI

V-DVI

R-DVI

G-DVI

HS-DET

RES

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1D01-1 D1	3IS5 I12
1D01-4 A6	3IT5 I14
1I14 D2	3IT6 I14
1I15 G2	3IV0 H9
1I16 G2	3IV1 I7
1I17 C8	3IV2 I7
1I18 C5	3IV3 I7
1I19 B5	5I30 C11
1I20 B4	5I31 C12
1I21 B3	5I32 D13
1I53 G4	5I33 D10
1I55 F2	5I34 D10
1I56 D3	5I35 E13
1I57 F4	5I36 H13
1I59 F4	5I37 H13
1I60 C2	5I38 H13
1I61 C2	5I39 H5
1I62 D2	5I40 C12
1I64 D2	5I41 E13
1I65 D2	6I01 C3
1I66 E2	6I06 C4
1I67 F2	6I07 C5
2I66 I12	6I08 C6
2I67 I13	6I09 C8
2I68 I13	6I14 E5
2I69 I13	6I15 E5
2I70 I14	6I16 E6
2I86 I14	6I17 E6
2I87 G13	6I18 E7
2I88 G13	6I19 E7
2I89 G13	6I20 E4
2I90 G12	6I21 E4
2I91 G12	6I63 H7
2I92 F13	6I64 I7
2I93 F13	6I65 I4
2I94 F12	6I66 I4
2I95 E12	7I18 E10
2I96 E13	7I19 I6
2I97 E9	7I51 H8
2I98 E9	7I52 H8
2IB3 E9	7I53-1 I8
2IB5 E8	7I53-2 I9
2IB8 H5	7I61 B10
2IB9 H4	7I64 B11
2IC5 H6	9I07 F14
2IC6 C7	9I14 F14
2IC7 C6	9I85 G14
2IC8 E10	9IB3 A7
2IE1 E10	9ID1 B4
2IE2 E11	9ID2 A4
2IE3 D11	9ID3 B4
2IE4 D11	9ID4 A5
2IE5 D12	9ID5 B5
2IE6 E12	9ID6 A5
2IE7 E12	9ID7 A7
2IE8 D12	9ID8 B7
2IE9 C9	9ID9 B7
2IG2 C9	FI00 B2
2IG3 C10	FI01 C2
2IG4 C10	FI02 D2
2IG5 C11	FI03 D2
2IG6 C12	FI04 F2
2IG7 C13	FI05 F2
2IG8 C12	FI06 F2
2IG9 C13	FI07 G2
2IH1 H5	FI08 E2
2IH2 C13	FI09 E2
2IH4 C12	FI29 G14
2IH5 C11	FI30 G14
2IJ8 H8	FI70 C2
2IJ9 H9	FI71 C2
3I29 C4	FI72 I5
3I30 C4	FI73 H10
3I31 D5	FI74 I8
3I32 C6	FI75 G10
3I33 C7	FI76 B10
3I40 C7	FI77 H14
3I41 C8	FI78 H14
3I42 E2	FI79 H14
3I44 I4	FI80 B4
3I45 I4	FI81 B4
3I46 I5	FI82 B5
3I47 I5	FI83 C6
3I48 H5	FI84 C8
3I49 I7	FIC3 E2
3II8 A12	II60 A10
3II9 A11	II61 C11
3IK9 A9	II62 D11
3IQ5 H6	II63 D11
3IQ6 H7	II64 D11
3IQ7 H8	II65 D10
3IQ8 H9	II66 D10
3IQ9 I9	II68 A11
3IR0 I9	II92 E13
3IR1 I10	II93 F13
3IR2 G8	II94 F14
3IR3 G8	II97 E14
3IR4 G9	IIG0 I7
3IR5 G13	IIH6 H9
3IR6 G13	
3IR7 F13	
3IR8 F13	
3IR9 I13	
3IS0 I13	
3IS1 I13	

SSB: I/O7

B 14 G I/O7

HDI : RGB-YPbPr

RGB-OUTPUT SELECTION

RESERVED

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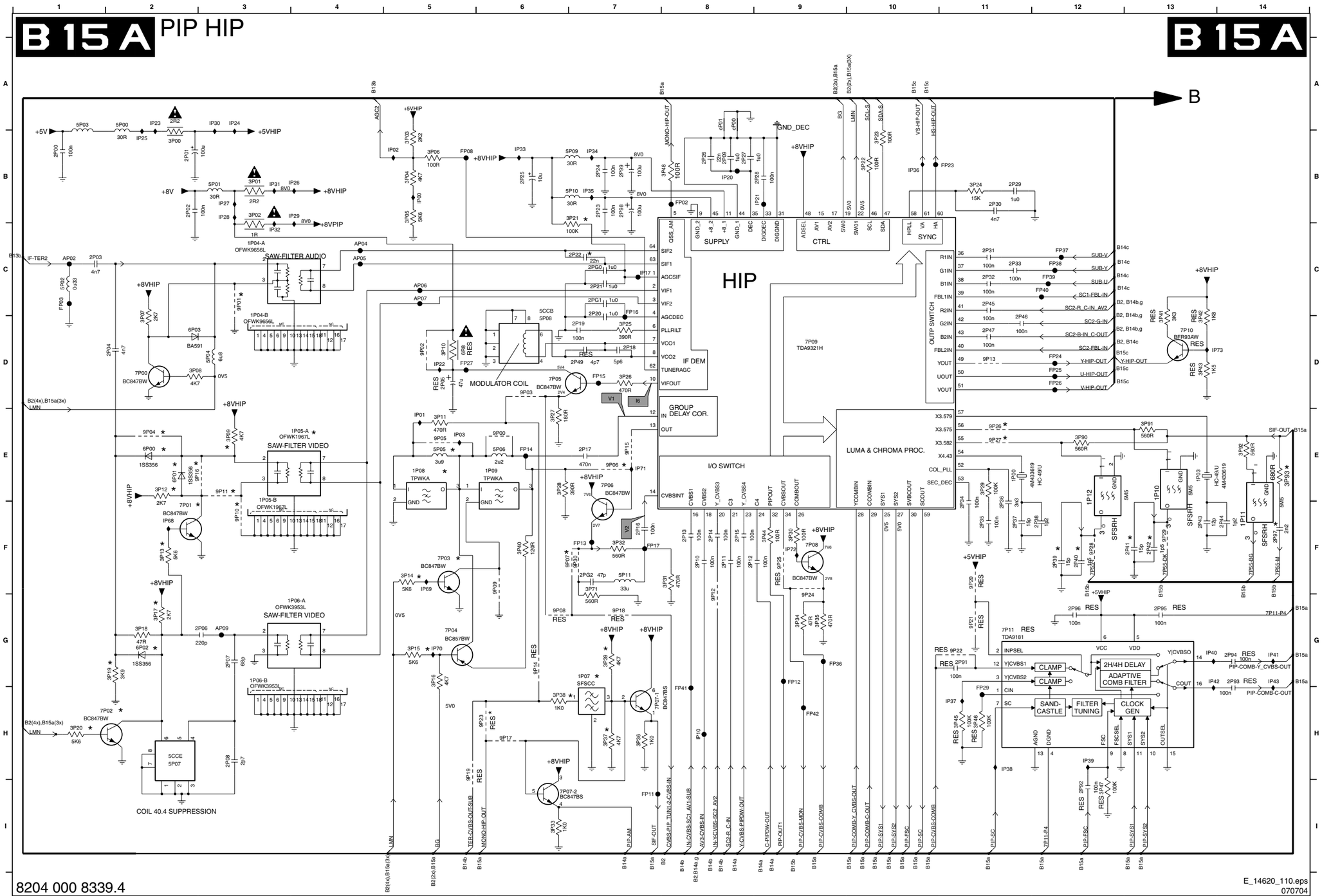
2I09 I10
2IF0 I9
2IF1 F9
2IF2 D9
2IF3 B9
2IF4 H6
2IF5 H7
2IF6 A13
2IF8 D2
2IF9 D2
2IH6 D2
2IH7 D2
2IH8 C2
2IH9 C2
2IK1 C5
2IK2 H10
2IK3 H10
2IK4 I10
2IN8 E3
2IN9 E3
3IG0 F9
3IG1 F8
3IG3 D9
3IG4 D8
3IG6 B9
3IG7 C8
3IG9 H10
3IHA G9
3IHB E9
3IHC C9
3IJ6 C11
3IJ7 D11
3IK0 G3
3IT7 G3
3IT8 G3
3IU0 H5
3IU1 G13
3IU2 B13
3IU3 H13
3IU5 D11
3IU6 E11
3IU7 E12
3IU8 E13
3IU9 F11
3IV4 C6
3IV5 D6
3IV6 D6
3IV7 E13
3IV8 F11
3IV9 F13
3IW1 H10
3IW2 E11
3IW7 B11
3IW8 B11
3IZ0 F11
3IZ1 F12
3IZ2 F13
3IZ3 B11
3IZ4 B11
3IZ5 B11
3IZ6 C13
3IZ7 B12
3IZ8 B13
3IZ9 A12
5I12 H6
5I13 H6
5I42 E2
6I80 H10
6I81 I10
6IA1 H10
7I41 C12
7I54-A A13
7I54-B C13
7I54-C D13
7I54-D F13
7I55 C4
7I56 C8
7I57 E8
7I58 F8
9I23 B13
9I28 C12
9I29 B4
9I45 D11
9I49 F11
9I81 F4
9I84 E7
9I88 F4
9I91 B4
9I98 B4
FIB2 G2
FIB3 I10
FIB5 H6
FIB6 G13
FIB7 G13
FIB8 H10
FIB9 H10
FIC2 E2
II30 E3
II31 E3
IIB4 B11
IIB5 B12
IIB6 D11
IIB7 E12
IIB8 F11
IIB9 F12
IIF2 C6
IIF3 C6
IIF4 D6
IIF5 C8
IIF6 D8
IIF7 F8
IIH7 C12
IIH8 C11

SSB: PIP HIP



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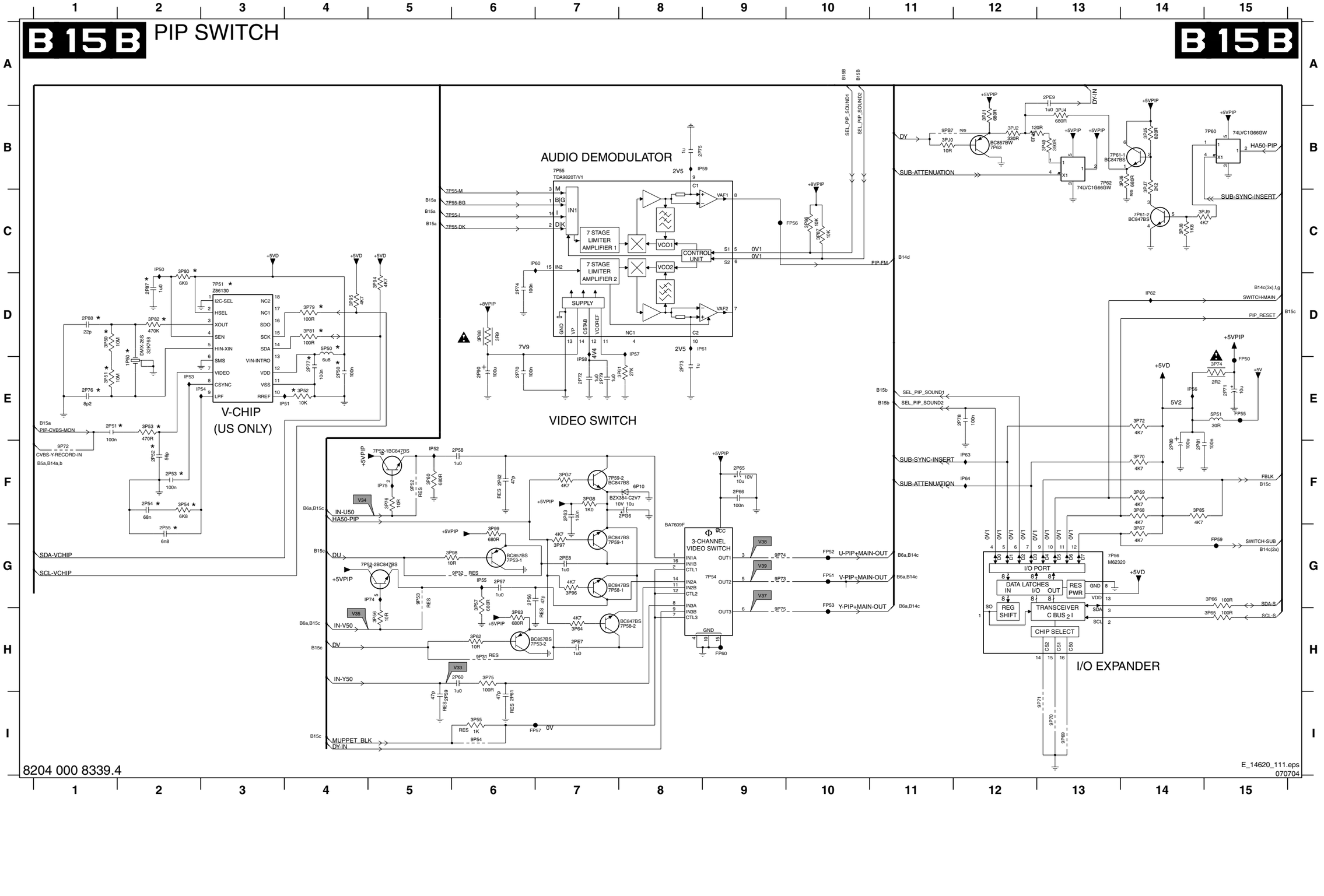
1P04-A C3	3P16 G5	9P22 G11
1P04-B D3	3P17 G2	9P23 H6
1P05-A E4	3P18 G2	9P24 G9
1P05-B F3	3P19 G2	9P25 F9
1P06-A G4	3P20 H1	9P26 E11
1P06-B G3	3P21 B7	9P27 E11
1P07 G7	3P22 B10	9P28 F12
1P08 E5	3P23 B10	9P29 F13
1P09 E6	3P24 B11	9P30 F7
1P10 E13	3P25 D7	AP02 C1
1P11 F14	3P26 D7	AP04 C4
1P12 E12	3P27 E6	AP05 C4
2P00 B1	3P28 E6	AP06 C5
2P01 B2	3P29 E11	AP07 C5
2P02 B2	3P30 F9	AP09 G3
2P03 C1	3P31 F8	FP02 B8
2P04 D2	3P32 F7	FP03 C1
2P05 D5	3P33 I6	FP08 B5
2P06 G3	3P34 G9	FP11 I7
2P07 G3	3P35 G9	FP12 G9
2P08 H3	3P36 H7	FP13 F7
2P09 B8	3P37 H7	FP14 E6
2P10 F8	3P38 H6	FP15 D7
2P11 F8	3P39 G7	FP16 C7
2P12 F8	3P40 F6	FP17 F7
2P13 F8	3P41 D13	FP23 B11
2P14 F8	3P42 D13	FP24 D12
2P15 F8	3P43 D13	FP25 D12
2P16 F7	3P44 F9	FP26 D12
2P17 E7	3P45 H11	FP27 D5
2P18 D7	3P46 H11	FP29 H11
2P19 D7	3P47 I12	FP36 G9
2P20 C7	3P48 B8	FP37 C12
2P21 C7	3P71 F7	FP38 C12
2P22 C7	3P90 E12	FP39 C12
2P23 B7	3P91 E13	FP40 C12
2P24 B7	3P92 E14	FP41 H8
2P25 B6	3P93 E14	FP42 H9
2P26 B8	5P00 A2	IP00 B5
2P27 B8	5P01 B3	IP01 E5
2P28 B9	5P02 C1	IP02 B5
2P29 B11	5P03 A1	IP03 E5
2P30 B11	5P04 D3	IP10 H8
2P31 C11	5P05 E5	IP17 C7
2P32 C11	5P06 E6	IP20 B8
2P33 C11	5P07 H2	IP21 B9
2P34 F11	5P08 D6	IP22 D5
2P35 F11	5P09 B7	IP23 A2
2P36 F11	5P10 B7	IP24 A3
2P37 F11	5P11 F7	IP25 B2
2P38 F12	6P00 E2	IP26 B4
2P39 F12	6P01 E2	IP27 B3
2P40 F12	6P02 G2	IP28 B3
2P41 F13	6P03 D2	IP29 B4
2P42 F13	7P00 D2	IP30 A3
2P43 F13	7P01 F2	IP31 B3
2P44 F14	7P02 H1	IP32 C3
2P45 C11	7P03 F5	IP33 B6
2P46 D11	7P04 G5	IP34 B7
2P47 D11	7P05 D6	IP35 B7
2P49 D7	7P06 E7	IP36 B10
2P91 G11	7P07-1 H7	IP37 H11
2P92 I12	7P07-2 I6	IP38 H11
2P93 G14	7P08 F9	IP39 H12
2P94 G14	7P09 D9	IP40 G13
2P95 G13	7P10 D13	IP41 G14
2P96 G12	7P11 G11	IP42 G13
2P97 F14	9P00 E6	IP43 G14
2P98 B7	9P01 C3	IP68 F2
2P99 B7	9P02 D5	IP69 F5
2PG0 C7	9P03 D6	IP70 G5
2PG1 C7	9P04 E2	IP71 E7
2PG2 F7	9P05 E5	IP72 F9
3P00 B2	9P06 E7	IP73 D14
3P01 B3	9P07 F7	cP00 A8
3P02 B3	9P08 G6	cP01 A8
3P03 B5	9P09 F6	
3P04 B5	9P10 F3	
3P05 B5	9P11 E3	
3P06 B5	9P12 G8	
3P07 D2	9P13 D11	
3P08 D2	9P14 G6	
3P09 E3	9P15 E7	
3P10 D5	9P16 E3	
3P11 E5	9P17 H6	
3P12 E2	9P18 G7	
3P13 F2	9P19 H5	

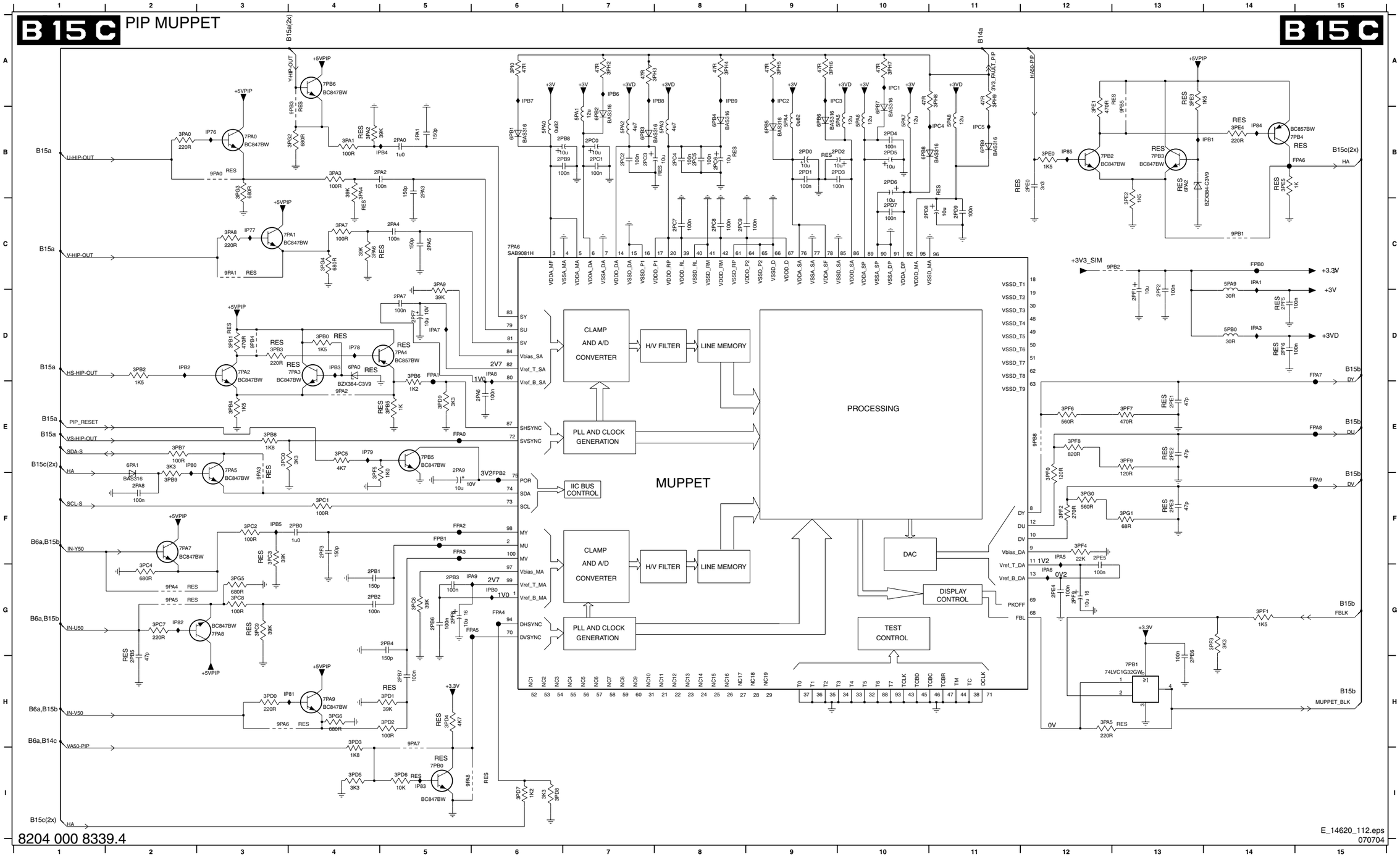
SSB: PIP Switch

1P50 E2	2P54 F2	2P59 I5	2P65 F9	2P73 E8	2P78 E12	2P88 D1	2PG6 F8	3P53 E2	3P60 F5	3P65 H15	3P70 F14	3P79 D4	3P86 C10	3P96 G7	3PG8 F7	3PJ4 B13	3PJ9 C15	7P52 G4	7P55 B7	7P59-2 G7	7P63 B12	9P54 I6	9P73 G9	FP51 G10	FP57 I7	IP52 F5	IP57 D8	IP62 D14
2P50 E4	2P55 G2	2P60 H6	2P66 F9	2P74 D6	2P79 E7	2P90 E6	3P49 B13	3P54 F2	3P61 E8	3P66 G15	3P72 E14	3P80 C2	3P87 C10	3P97 G7	3PJ0 B11	3PJ5 B14	5P50 D4	7P52-1 F5	7P56 G13	7P60 B15	9P31 H6	9P69 I13	9P74 G9	FP52 G10	FP59 G15	IP53 E2	IP58 E7	IP63 F12
2P51 E1	2P56 G6	2P61 I6	2P70 E6	2P75 B8	2P80 F14	2P E7 H7	3P50 D1	3P55 I6	3P62 H6	3P67 G14	3P74 E15	3P81 D4	3P88 D6	3P98 G6	3PJ1 B12	3PJ6 B14	5P51 E15	7P53-1 G6	7P58-1 G7	7P61-1 B14	9P32 G6	9P70 I13	9P75 H9	FP53 G10	FP60 H9	IP54 E3	IP59 B9	IP64 F12
2P52 F2	2P57 G6	2P62 F6	2P71 E15	2P76 E1	2P81 F14	2PE8 G7	3P51 E1	3P56 H5	3P63 H6	3P68 F14	3P75 H6	3P82 D2	3P94 D5	3P99 G6	3PJ2 B12	3PJ7 B14	6P10 F8	7P53-2 H6	7P58-2 H8	7P61-2 C14	9P52 F5	9P71 I13	9PB7 B11	FP55 E15	FP50 C2	IP55 G6	IP60 C7	IP74 G5
2P53 F2	2P58 F6	2P63 F7	2P72 E7	2P77 E4	2P87 D2	2PE9 A13	3P52 E4	3P57 G6	3P64 H7	3P69 F14	3P76 F5	3P85 F14	3P95 D4	3PG7 F7	3PJ3 B12	3PJ8 C14	7P51 D3	7P54 G9	7P59-1 F7	7P62 B13	9P53 G5	9P72 F1	FP50 E15	FP56 C10	IP51 E4	IP56 E14	IP61 D8	IP75 F5



SSB: PIP Muppet

2PA0 B5	2PA7 D5	2PB4 G5	2PC1 B7	2PC8 C8	2PD5 B10	2PE2 E13	2PF3 F4	3PA1 B4	3PA8 C3	3PB5 E5	3PC2 F3	3PC9 G3	3PD6 I5	3PE3 A13	3PF4 F12	3PG1 F13	3PH3 A7	3PI0 A6	5PA6 B10	6PA2 B13	6PB7 B10	7PA4 D5	7PB1 H13	9PA1 C3	9PA8 I5	FPA0 E5	FPA7 D15	IP77 C3	IP84 B14	IPA8 D6	IPB5 F3	IPC3 A9
2PA1 B5	2PA8 F2	2PB5 H2	2PC2 B7	2PC9 C8	2PD6 B10	2PE3 F13	2PF5 D14	3PA2 B4	3PA9 C5	3PB6 D5	3PC3 F3	3PD0 H3	3PD7 I6	3PE4 B14	3PF5 F4	3PG2 B4	3PH4 A8	5PA0 B6	5PA7 B10	6PB1 B6	6PB8 B10	7PA5 E3	7PB2 B12	9PA2 E4	9PB1 C14	FPA1 D5	FPA8 E15	IP78 D4	IP85 B12	IPA9 G6	IPB6 A7	IPC4 B11
2PA2 B5	2PA9 E5	2PB6 G5	2PC3 B7	2PD0 B9	2PD7 C10	2PE4 G12	2PF6 D14	3PA3 B4	3PB0 D4	3PB7 E2	3PC4 G2	3PD1 H5	3PD8 I6	3PE5 B14	3PF6 E12	3PG3 B3	3PH5 A9	5PA1 B7	5PA8 B11	6PB2 B7	6PB9 B11	7PA6 C6	7PB3 B13	9PA3 F3	9PB2 C13	FPA2 F5	FPA9 F15	IP79 E4	IPA1 C14	IPB0 G6	IPB7 A6	IPC5 B11
2PA3 B5	2PB0 F4	2PB7 H5	2PC4 B8	2PD1 B9	2PD8 C10	2PE5 F12	2PF7 D5	3PA4 B4	3PB1 D3	3PB8 E3	3PC5 E4	3PD2 H5	3PD9 E5	3PF0 F12	3PF7 E13	3PG4 C4	3PH6 A9	5PA2 B7	5PA9 C14	6PB3 B7	7PA0 B3	7PA7 F2	7PB4 B14	9PA4 G2	9PB3 B4	FPA3 F5	FPB0 C14	IP80 E2	IPA3 D14	IPB1 B14	IPB8 A8	
2PA4 C5	2PB1 G4	2PB8 B7	2PC5 B8	2PD2 B10	2PD9 C11	2PE6 H13	2PF8 G5	3PA5 H12	3PB2 D2	3PB9 F2	3PC6 G5	3PD3 H4	3PE0 B12	3PF1 G14	3PF8 E12	3PG5 G3	3PH7 A10	5PA3 B8	5PB0 D14	6PB4 B8	7PA1 C3	7PA8 G3	7PB5 E5	9PA5 G2	9PB4 D3	FPA4 G6	FPB1 F5	IP81 H4	IPA5 F12	IPB2 D2	IPB9 A8	
2PA5 C5	2PB2 G4	2PB9 B7	2PC6 B8	2PD3 B10	2PE0 B12	2PF1 D13	2PF9 G12	3PA6 C4	3PB3 D3	3PC0 E3	3PC7 G2	3PD4 H5	3PE1 B12	3PF2 F12	3PF9 E13	3PG6 H4	3PH8 A11	5PA4 B9	6PA0 D4	6PB5 B9	7PA2 D3	7PA9 H4	7PB6 A4	9PA6 H3	9PB5 B13	FPA5 G6	FPB2 F6	IP82 G2	IPA6 G12	IPB3 D4	IPC1 A10	
2PA6 E6	2PB3 G5	2PC0 B7	2PC7 C8	2PD4 B10	2PE1 E13	2PF2 D13	3PA0 B2	3PA7 C4	3PB4 E3	3PC1 F4	3PC8 G3	3PD5 I4	3PE2 C13	3PF3 G14	3PG0 F12	3PH2 A7	3PH9 A11	5PA5 B10	6PA1 E2	6PB6 B9	7PA3 D4	7PB0 I5	9PA0 B3	9PA7 H5	9PB8 E12	FPA6 B15	IP76 B3	IP83 I5	IPA7 D5	IPB4 B5	IPC2 A9	



SSB: HDI A/D Converter

B 19A HDI A/D CONVERTER

B 19A

+3V3-AD
7L02 LD1117DT33C
FL17
+5V
IN OUT COM
FE02
5L16 5L13 5L17 5L14 5L18 5L15
IL10 VD
IL11 VDD
IL12 PVD
2L19 2L33 2L34 2L58 2L00 2L12 2L13 2L14 2L15 2L16 2L17 2L51 2L08 2L09 2L20 2L21 2L01 2L02 2L03 2L04 2L05 2L06 2L07 2L10

A/D CONVERTER

7L01 AD9883AKST
VDD PVD VD PVD
11 22 23 69 78 79 26 27 39 42 45 46 51 52 59 62 34 35
VDD VD PVD

B14g V-2FH AL06 3L04 100R 5L02 470n FL09 3L29 150R 2L52 47n 54 RAIN
2L48 RES 4p7 2L28 22p 3L19 680R

B14g(2x)B19a Y-2FH AL07 3L05 100R 5L04 470n FL10 3L30 150R 2L57 47n 48 GAIN
2L49 RES 4p7 2L29 22p 3L20 680R RES 3L27 470R RES 2L18 47p RES 2L59 1n0

B14g U-2FH AL08 3L11 100R 5L06 470n FL12 3L31 150R 2L54 47n 43 BAIN
2L50 RES 4p7 2L30 22p 3L21 680R

2L11 100n IL06 37 MIDSCV

CLAMP A/D 8

ROUTA0 ROUTA1 ROUTA2 ROUTA3 ROUTA4 ROUTA5 ROUTA6 ROUTA7
77 76 75 74 73 72 71 70
UV-AD-0 UV-AD-1 UV-AD-2 UV-AD-3 UV-AD-4 UV-AD-5 UV-AD-6 UV-AD-7
B19d

GOUTA0 GOUTA1 GOUTA2 GOUTA3 GOUTA4 GOUTA5 GOUTA6 GOUTA7
9 8 7 6 5 4 3 2
Y-AD-0 Y-AD-1 Y-AD-2 Y-AD-3 Y-AD-4 Y-AD-5 Y-AD-6 Y-AD-7
B19d

BOUTA0 BOUTA1 BOUTA2 BOUTA3 BOUTA4 BOUTA5 BOUTA6 BOUTA7
19 18 17 16 15 14 13 12
U-AD-0 U-AD-1 U-AD-2 U-AD-3 U-AD-4 U-AD-5 U-AD-6 U-AD-7
B19d

to EPLD

B14c,g HS-2FH FL11 3L32 470R 30 HSYNC
B14c(2x) VS-2FH FL13 3L33 470R 31 VSYNC
B14g(2x),B19a Y-2FH 3L12 470R 2L56 1n0 49 SOGIN
2L60 47p 470R 3L28 38 CLAMP
COAST 29 COAST
33 FILT

SYNC PROCESSING AND CLOCK GENERATION

HSOUT 66 FL15 H-2FH-AD-OUT B19d
VSOUT 64 FL03 V-2FH-AD-OUT B14g,B19d
SOGOUT 65 FL04 SYNCDET B19d
DATACK 67 AL02 CLK-2FH B19b

PVD
2L31 47n IL07
2L26 33n 3L08 2K7 IL08
2L27 4n7
2L32 3n3

SERIAL REGISTER AND PWR MANAGMENT
3L06 100R 57 SDA
3L03 100R 56 SCL
VD IL09 55 A0

REF REF-BYPASS 58 FL05 100n 2L25

GND
1 10 20 21 24 25 28 32 36 40 41 44 47 50 53 60 61 63 68 80

SDA-F3 B19b,d
SCL-F3 B19b,d

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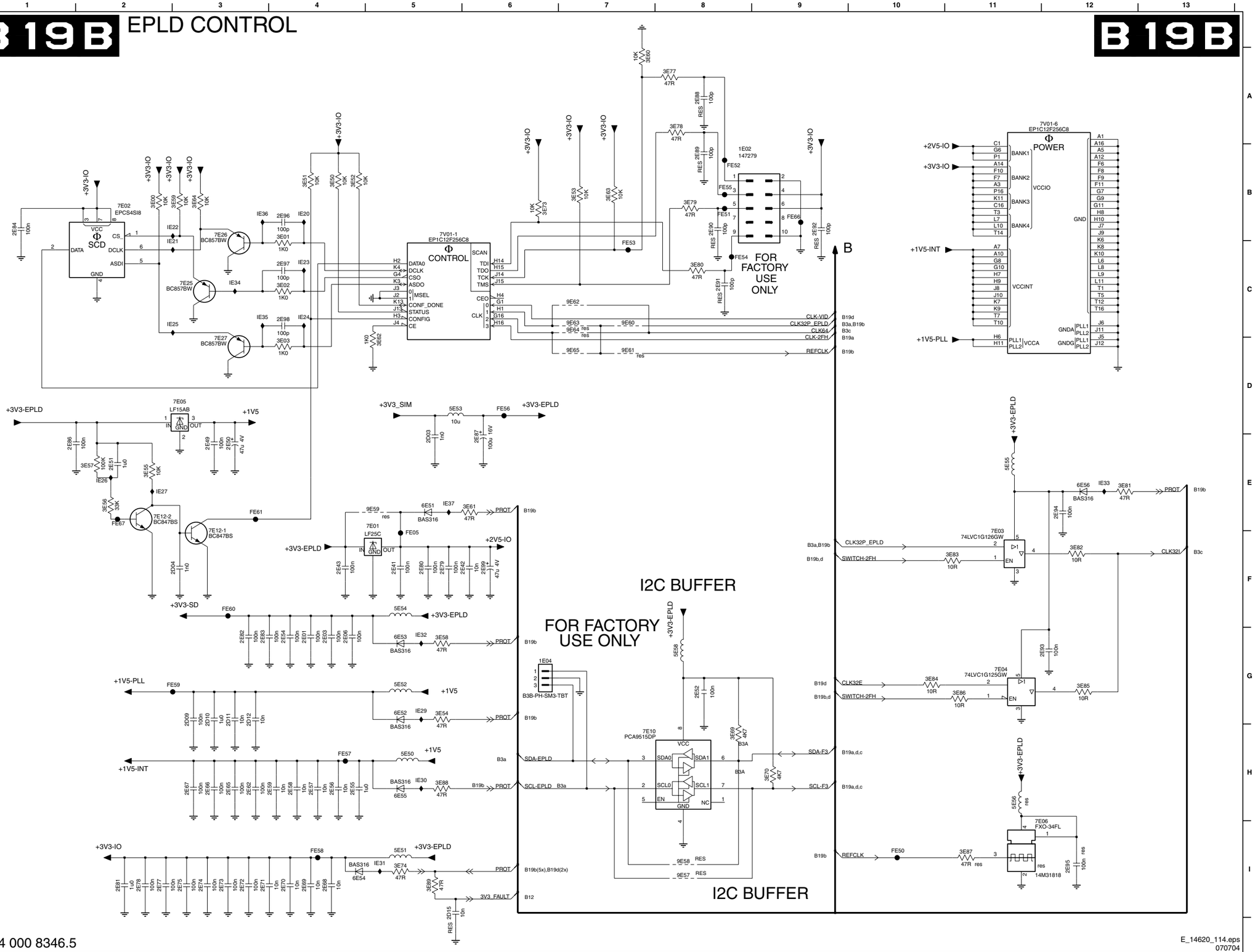
2L00 B3 IL11 B5
2L01 A4 IL12 C5
2L02 A4
2L03 A4
2L04 A4
2L05 A4
2L06 A5
2L07 A5
2L08 C4
2L09 C4
2L10 A5
2L11 F6
2L12 B4
2L13 B4
2L14 B4
2L15 B4
2L16 B4
2L17 B5
2L18 E5
2L19 A1
2L20 C4
2L21 C4
2L25 H10
2L26 H2
2L27 H2
2L28 D3
2L29 E3
2L30 F3
2L31 H2
2L32 H2
2L33 A2
2L34 A3
2L48 D2
2L49 E2
2L50 F2
2L51 C3
2L52 C6
2L54 F6
2L56 G4
2L57 E6
2L58 A3
2L59 E5
2L60 G4
3L02 E5
3L03 H5
3L04 C2
3L05 E2
3L06 H5
3L08 H3
3L11 F2
3L12 G3
3L19 D4
3L20 E4
3L21 F4
3L28 G6
3L29 C4
3L30 E4
3L31 F4
3L32 G4
3L33 G5
5L02 C2
5L04 E2
5L06 F2
5L13 A3
5L14 B3
5L15 C3
5L16 A3
5L17 B3
5L18 B3
7L01 C6
7L02 A2
AL02 G10
AL06 C1
AL07 E1
AL08 F1
FE02 A3
FL03 G10
FL04 G10
FL05 H10
FL09 C3
FL10 E3
FL11 G4
FL12 F3
FL13 G4
FL15 G10
FL17 A1
IL06 F6
IL07 H3
IL08 H3
IL09 H6
IL10 A5

SSB: EPLD Control

B 19B EPLD CONTROL

B 19B



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SSB: EPLD OSD

B 19 C EPLD OSD

B 19 C

A/D CONVERTER

CLAMP

A/D

SYNC PROCESSING AND CLOCK GENERATION

SERIAL REGISTER AND PWR MANAGMENT

REF

7E24 AD9283BRS-80

7E23 AD9883AKST

7E22 BC847BW

8-BIT ADC

2E02 D1
2E04 D2
2E05 B4
2E07 A5
2E08 C5
2E09 A6
2E10 B5
2E11 B6
2E12 B6
2E13 B6
2E14 B6
2E15 B6
2E16 B5
2E17 B6
2E18 B6
2E19 B6
2E20 C6
2E21 D7
2E22 D7
2E23 E7
2E24 E7
2E25 F7
2E26 G7
2E27 G7
2E28 H4
2E29 H4
2E30 H4
2E32 F1
2E34 H4
2E35 I12
2E39 B1
2E48 H6
2E53 G6
3E04 D1
3E05 C1
3E06 D6
3E07 E6
3E08 F6
3E09 E1
3E10 E2
3E11 G6
3E12 G6
3E13 E1
3E14 G7
3E15 F1
3E16 H5
3E18 H7
3E19 I7
3E37 B1
3E90 D1
3E91 H12
5E00 A5
5E01 B5
5E02 B5
5E03 C5
7E22 E1
7E23 C8
7E24 B2
9E74 E2
AL10 H12
FE01 G6
FE03 G6
FE04 H12
FL01 B4
IE00 H4
IE01 H5
IE03 E1
IE04 E2
IE05 F2
IL01 A7
IL02 B7
IL03 C7
IL05 G8

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SSB: EPLD I/O

B 19 D EPLD I/O

B 19 D

7V01-2 EP1C12F256C8 BANK 1

7V01-5 EP1C12F256C8 BANK 4

7V01-3 EP1C12F256C8 BANK 2

7V01-4 EP1C12F256C8 BANK 3

7V02 DS90C385MTD TTL PARALLEL-TO-LVDS

7V03 MSM56V16160F-7TS DRAM 512K X 16 X 2

LVDS TRANSMITTER

8204 000 8346.5

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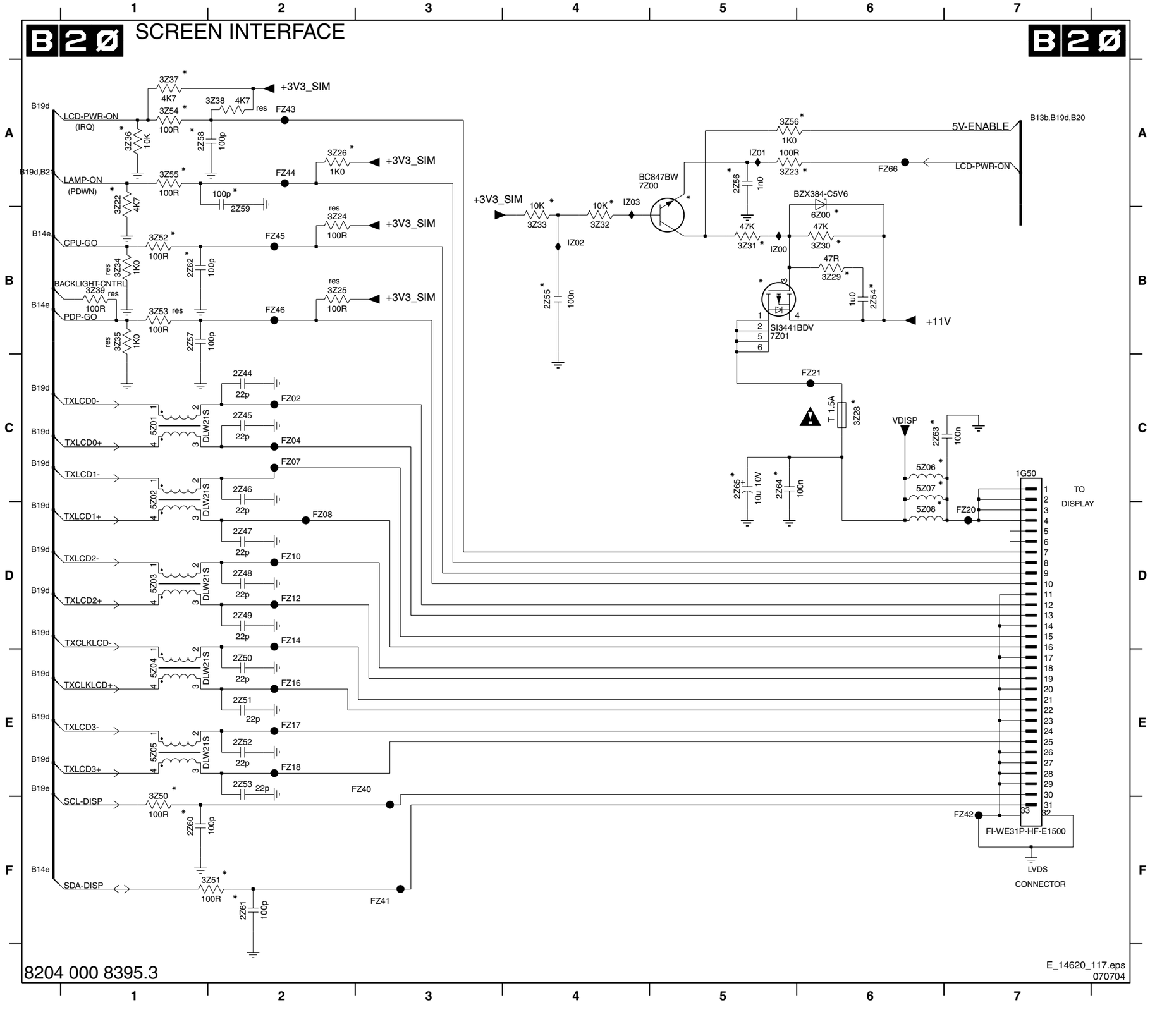
2V06 B13
2V07 A11
2V08 A12
2V09 A12
2V10 A12
2V11 E6
2V12 D6
2V16 C13
2V17 C14
2V18 D13
2V19 D14
2V20 E13
2V21 E14
2V22 G14
2V23 G14
2V24 G14
2V25 G14
3V01 H12
3V02 H12
3V07 G10
3V08 B13
3V14 A11
3V15 A14
3V16 A14
3V17 H12
3V18 I2
3V19 I12
3V20 I12
3V21-1 H8
3V21-2 H7
3V21-3 H8
3V21-4 G7
3V22-1 H8
3V22-2 H7
3V22-3 H8
3V22-4 H7
3V23-1 H7
3V23-2 H8
3V23-3 H7
3V23-4 H8
3V24-1 H7
3V24-2 H8
3V24-3 H7
3V24-4 I8
3V25 G12
3V26 H12
3V27 H12
3V28 H12
3V29 H12
3V30 H12
3V31 I12
3V32 I12
3V33 I12
3V34 I12
3V35 F6
3V36 B6
3V37 G2
3V38 G1
3V39 H5
3V40 H1
3V50 D5
3V51 D6
3V52 D6
3V53 E6
3V54 E6
3V55 E5
3V56 F6
3V57 F6
5V06 A12
5V07 A12
5V08 A13
6V01 A11
6V02 A13
6V03 A13
6V05 I2
7V01-2 A2
7V01-3 D2
7V01-4 G3
7V01-5 A7
7V02 B11
7V03 G6
7V04-1 D6
7V04-2 F6
7V06 F6
9E66 D8
9E67 E8
9E68 E8
9E69 E8
9E70 D8
9E71 E8
9E72 F8
9E73 F8
9E75 E3
9E76 F3
9E77 D8
AV01 F9
IV01 E3
IV02 A14
IV03 A14
IV04 A11
IV05 B7

SSB: Screen Interface



1G50	C7	5Z05	E1
2Z44	C2	5Z06	C6
2Z45	C2	5Z07	C6
2Z46	C2	5Z08	D6
2Z47	D2	6Z00	B6
2Z48	D2	7Z00	A4
2Z49	D2	7Z01	B5
2Z50	E2	FZ02	C2
2Z51	E2	FZ04	C2
2Z52	E2	FZ07	C2
2Z53	E2	FZ08	D2
2Z54	B6	FZ10	D2
2Z55	B4	FZ12	D2
2Z56	A5	FZ14	D2
2Z57	B1	FZ16	E2
2Z58	A1	FZ17	E2
2Z59	A2	FZ18	E2
2Z60	F1	FZ20	D7
2Z61	F2	FZ21	C6
2Z62	B1	FZ40	E3
2Z63	C6	FZ41	F3
2Z64	C5	FZ42	F7
2Z65	C5	FZ43	A2
3Z22	A1	FZ44	A2
3Z23	A5	FZ45	B2
3Z24	B2	FZ46	B2
3Z25	B2	FZ66	A6
3Z26	A2	IZ00	B5
3Z28	C6	IZ01	A5
3Z29	B6	IZ02	B4
3Z30	B6	IZ03	A4
3Z31	B5		
3Z32	B4		
3Z33	B4		
3Z34	B1		
3Z35	B1		
3Z36	A1		
3Z37	A1		
3Z38	A2		
3Z39	B1		
3Z50	F1		
3Z51	F2		
3Z52	B1		
3Z53	B1		
3Z54	A1		
3Z55	A1		
3Z56	A5		
5Z01	C1		
5Z02	C1		
5Z03	D1		
5Z04	E1		

SSB: Connection

0Y00 A1	0Y10 A2	0Y20 B1	0Y30 B2	1M07 F10	1Y02 A10	1Y12 F4	1Y23 F8	1Y33 B15	1Y45 C2	2Y09 F2	2Y18 F6	2Y28 C13	2Y39 B7	2Y50 D5	3Y05 G2	3Y17 B13	3Y27 E11	3Y39 G2	5Y11 G6	5Y21 C8	9Y06 H6	FY01 F14	FY29 F4	FY42 F7	FY51 B13	FY60 B9	FY69 G9	FY78 F8
0Y01 A1	0Y11 A2	0Y21 B1	0Y31 B2	1M09 G10	1Y04 A10	1Y13 F3	1Y24 F8	1Y34 B15	2Y00 E14	2Y10 H2	2Y19 F6	2Y29 C13	2Y40 C7	2Y51 B8	3Y06 A5	3Y18 C13	3Y28 D11	3Y40 E6	5Y12 H6	5Y22 C7	9Y09 E2	FY03 F14	FY30 H2	FY43 G7	FY52 B13	FY61 C7	FY70 G9	FY79 F3
0Y02 A1	0Y12 A3	0Y22 B1	0Y32 B3	1M17 A4	1Y05 A10	1Y14 F3	1Y25 F8	1Y35 B15	2Y01 F14	2Y11 A5	2Y20 E6	2Y30 D13	2Y41 C9	2Y52 G3	3Y08 H2	3Y19 C13	3Y30 E2	5Y00 H2	5Y14 F6	5Y23 F9	9Y12 A5	FY05 F15	FY31 H2	FY44 F7	FY53 B14	FY62 C9	FY71 G9	FY80 E12
0Y03 A1	0Y13 A2	0Y23 B1	0Y33 B3	1M20 F8	1Y06 A10	1Y15 F3	1Y26 E8	1Y37 B15	2Y02 F14	2Y12 H2	2Y21 E6	2Y31 D13	2Y42 D7	2Y53 F9	3Y09 E6	3Y20 C12	3Y33 A6	5Y01 G6	5Y15 E13	7Y01 B5	9Y13 F13	FY22 E3	FY32 D9	FY45 G7	FY54 B14	FY63 C8	FY72 G9	FY81 E12
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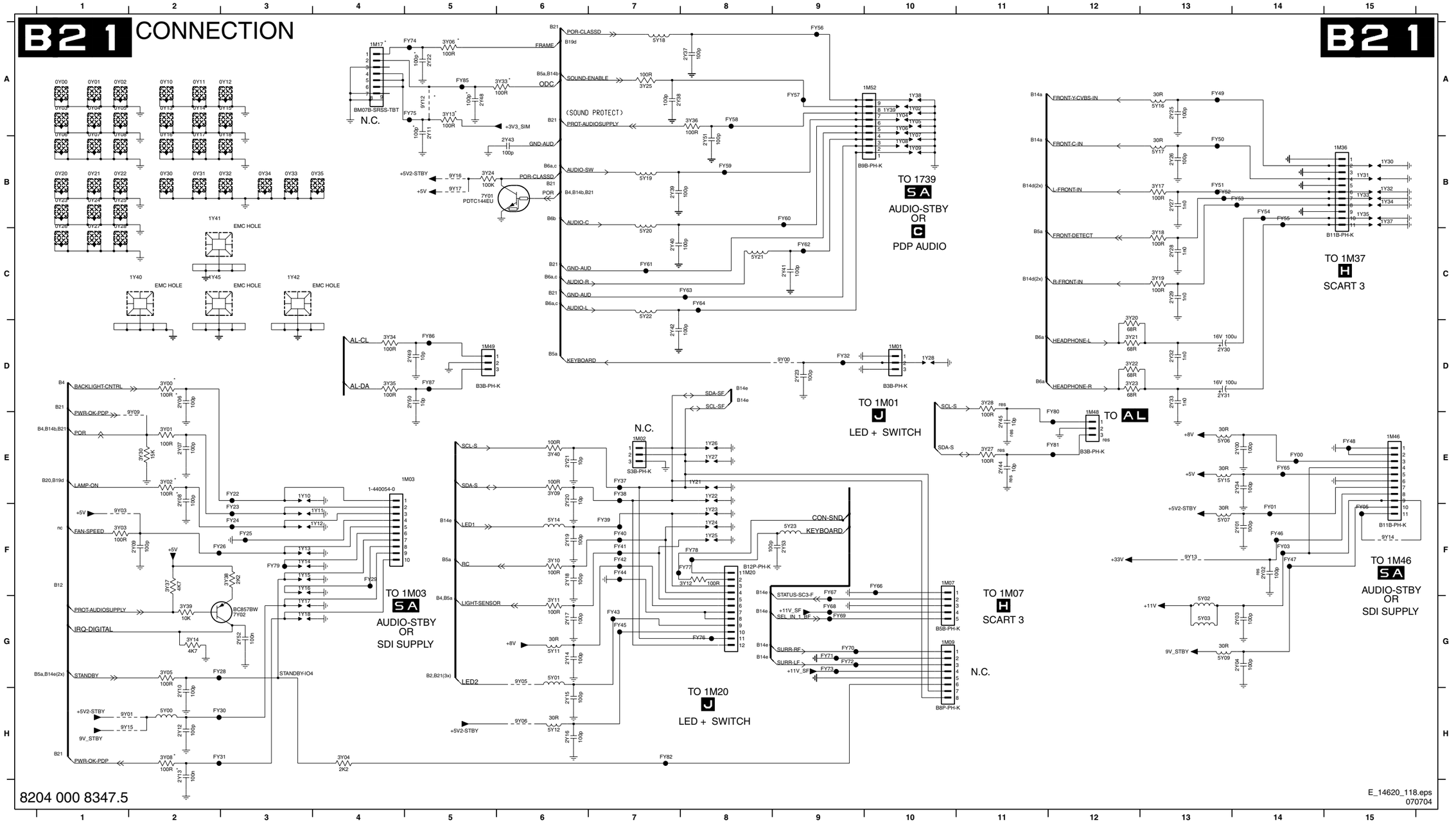
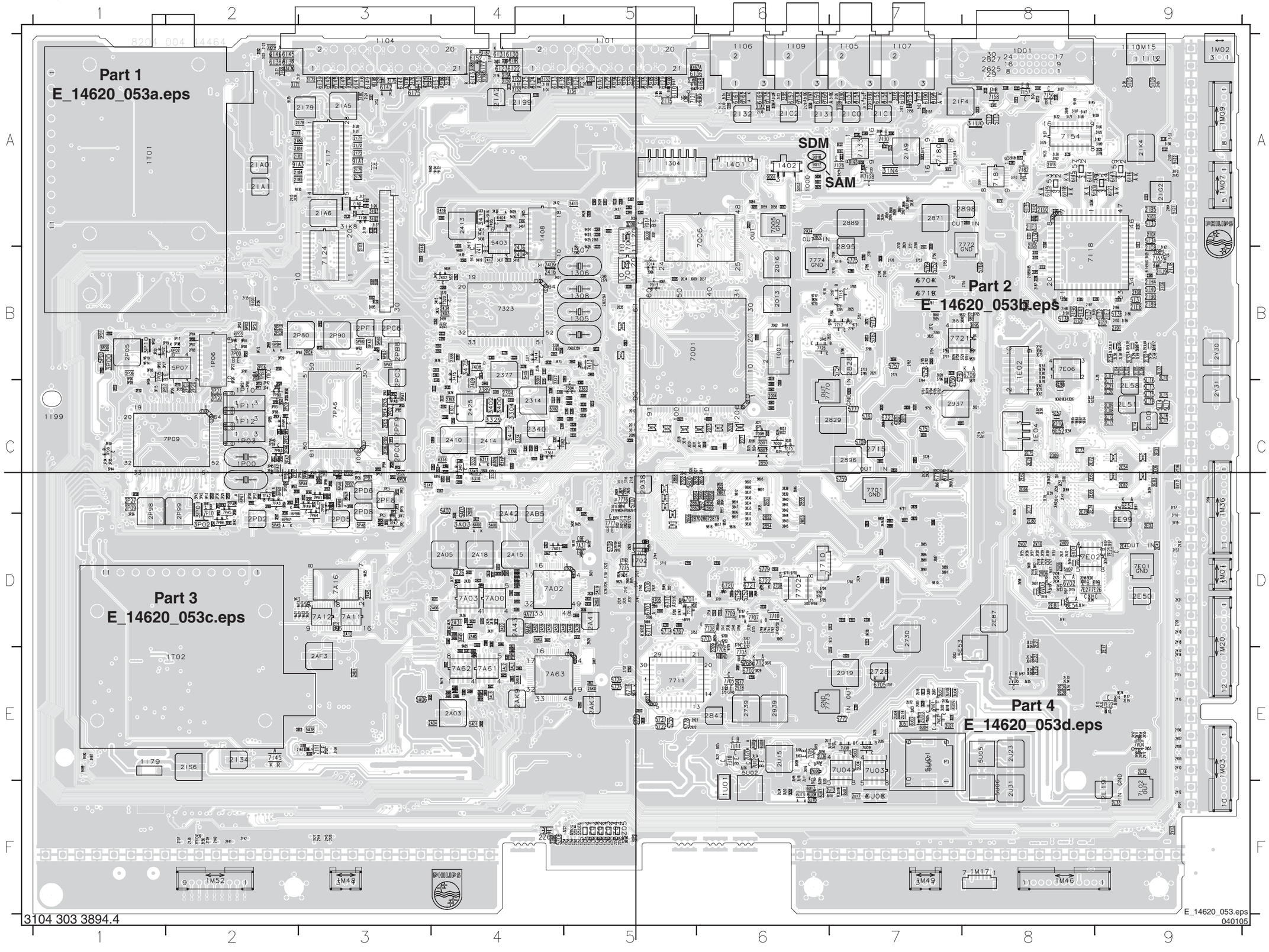


Layout SSB (Top Side Overview)



3104 303 3894.4

Layout SSB Mapping (Top Side)

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1307	B5
1308	B4
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1402	A6
1408	A4
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1703	D5
1710	D7
1D01	A8
1E02	B8
1E04	C8
1I01	A5
1I04	A4
1I05	A7
1I06	A6
1I07	A7
1I09	A6
1I11	A3
1I53	A8
1I56	A9
1I57	A8
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1I79	E1
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1M02	A9
1M03	E9
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1M09	A9
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1M17	F8
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1M36	C9
1M46	F8
1M48	F3
1M49	F7
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9I85	B8
9I87	E1
9I89	E1
9I90	E1
9I95	B3
9I97	B3
9IA1	A3
9IA3	A2
9IA6	A5
9IA7	A5
9ID0	E3
9IF0	A7
9IF1	A7
9IF2	A7
9IF3	A8
9IF4	A8
9P00	B1
9P01	B2
9P02	B1
9P03	B1
9P06	C1
9P08	B1
9P13	C2
9P14	B1
9P15	C1
9P19	B1
9P26	C2
9P27	C2
9P29	B2
9P70	B3
9P72	B2
9PA0	C3
9PA1	C2
9PA2	C3
9PA3	C2
9PA4	D3
9PA5	C3
9PA6	C3
9PA7	C2
9PA8	C2
9PB1	C2
9PB2	B3
9PB3	C2
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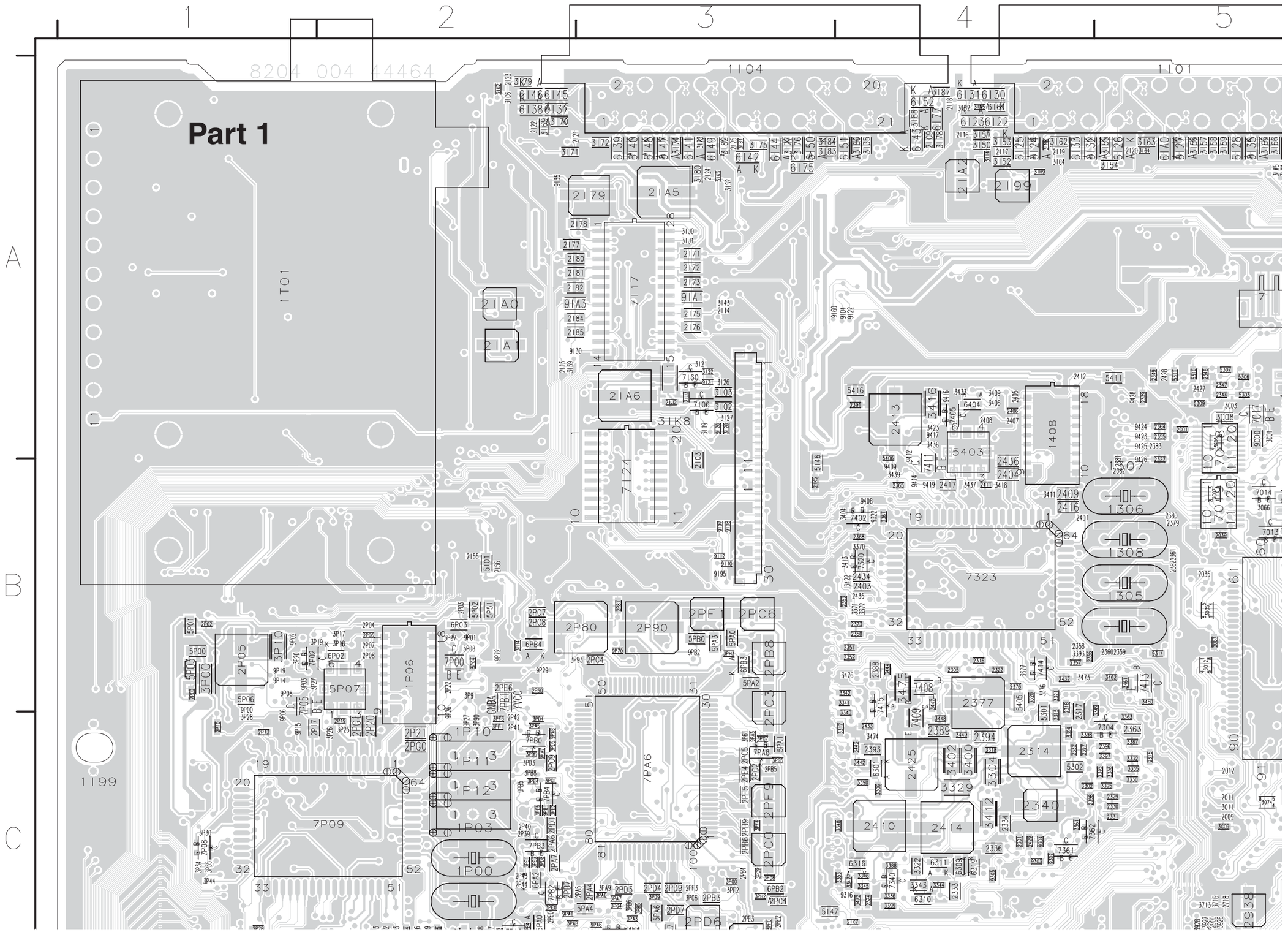
9PB5	C2
9PB8	D3
9Y01	F9

E_14620_053m.eps
270504

Layout SSB (Top Side Part 1)



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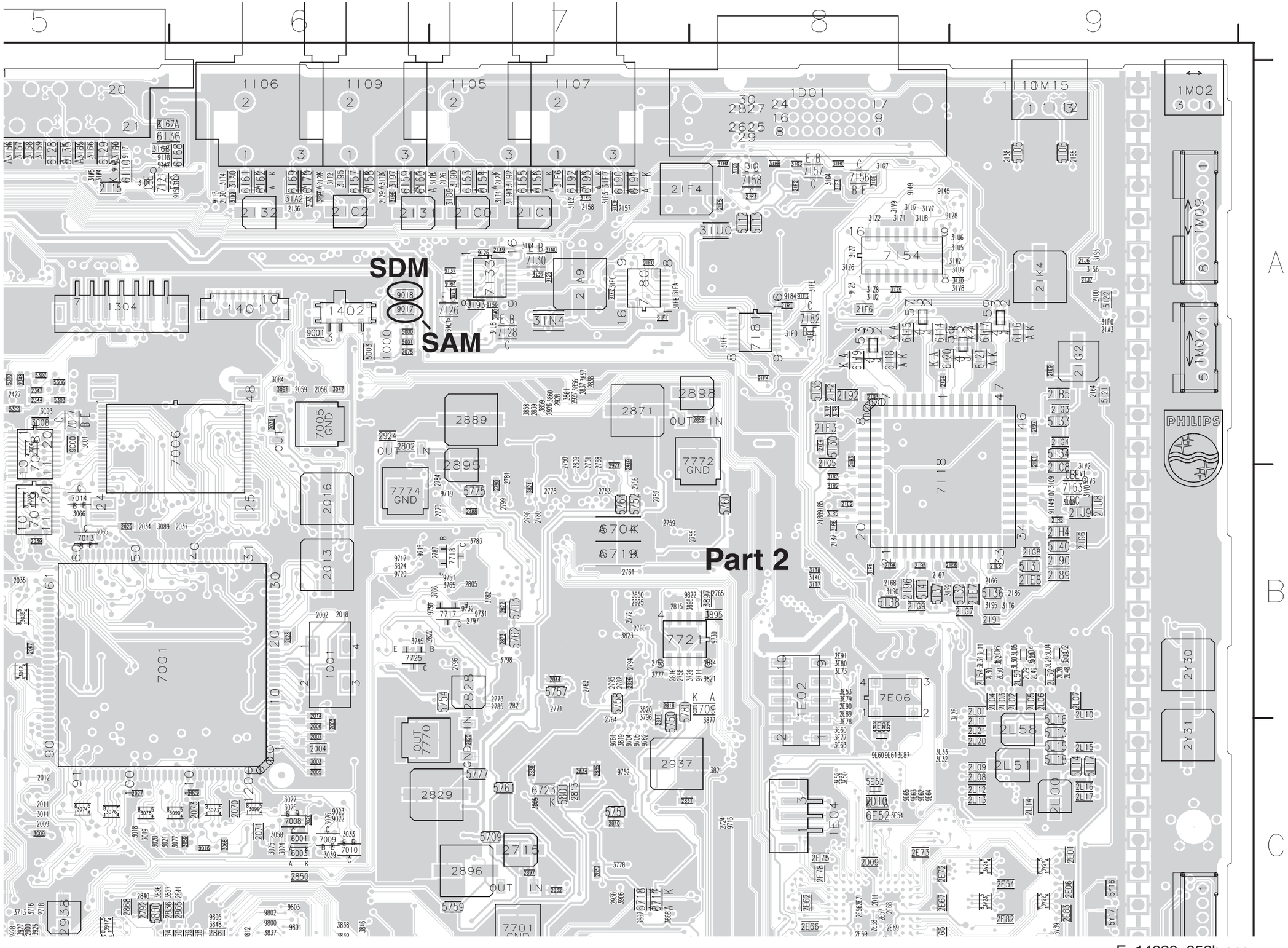
Layout SSB (Top Side Part 2)



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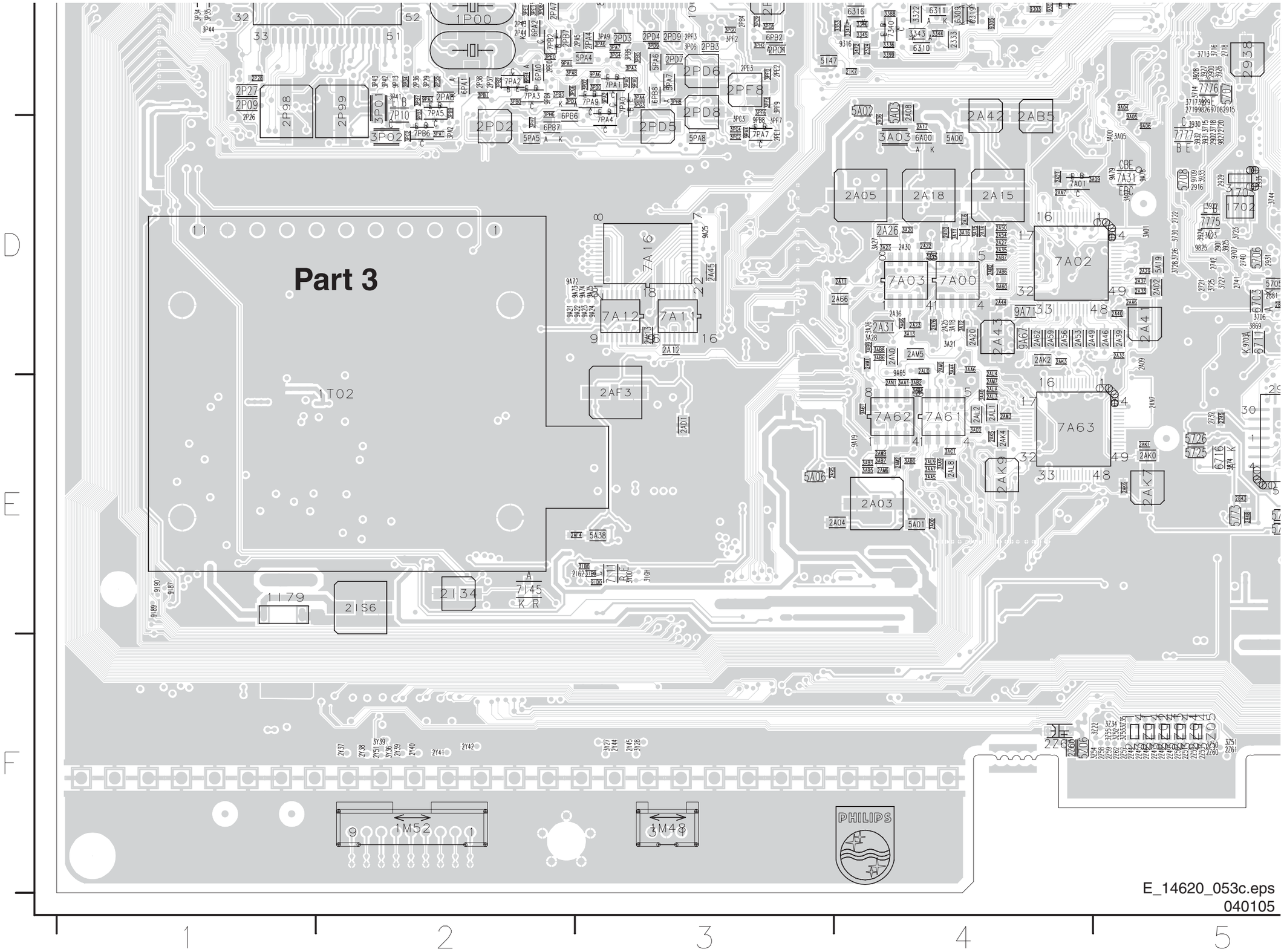
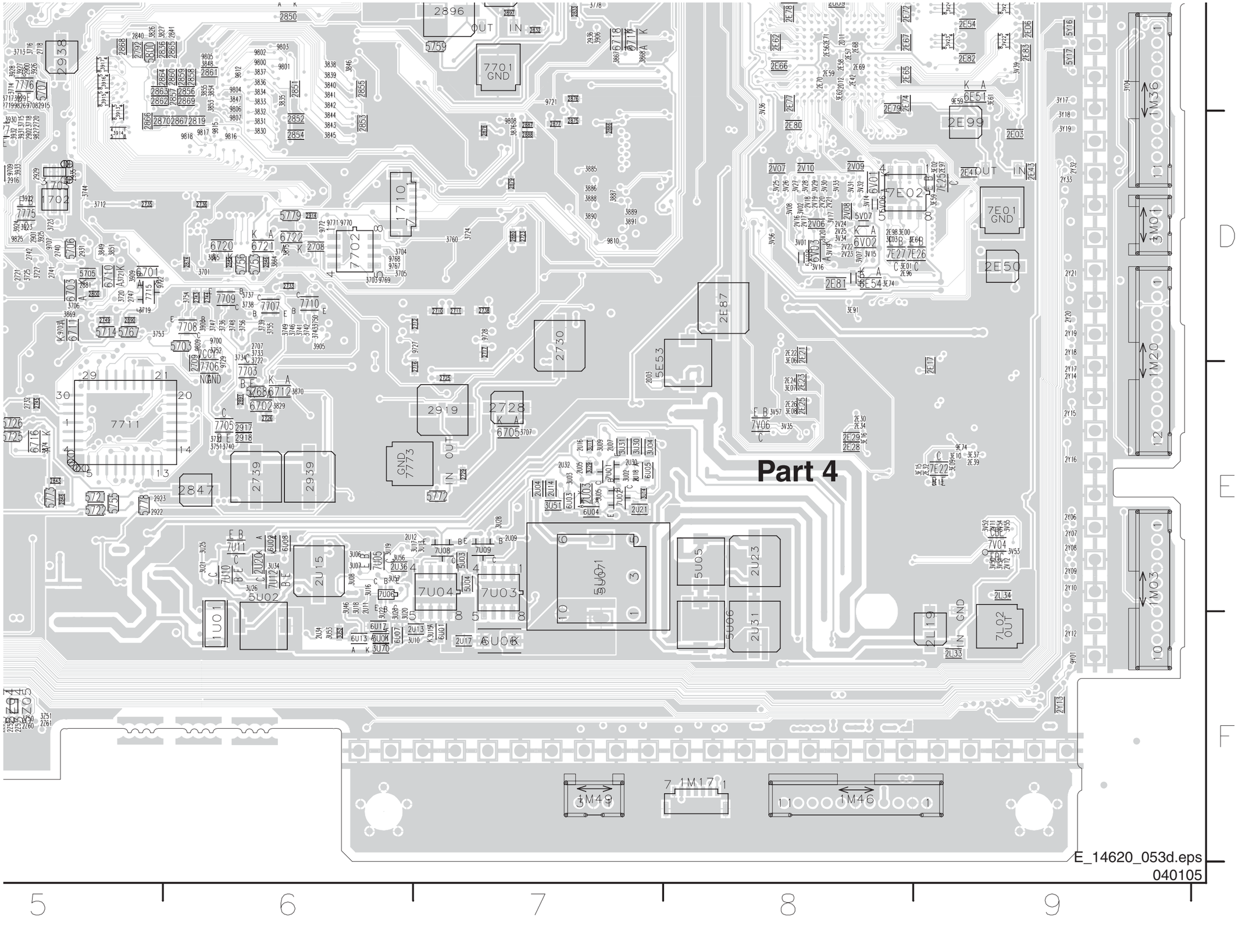
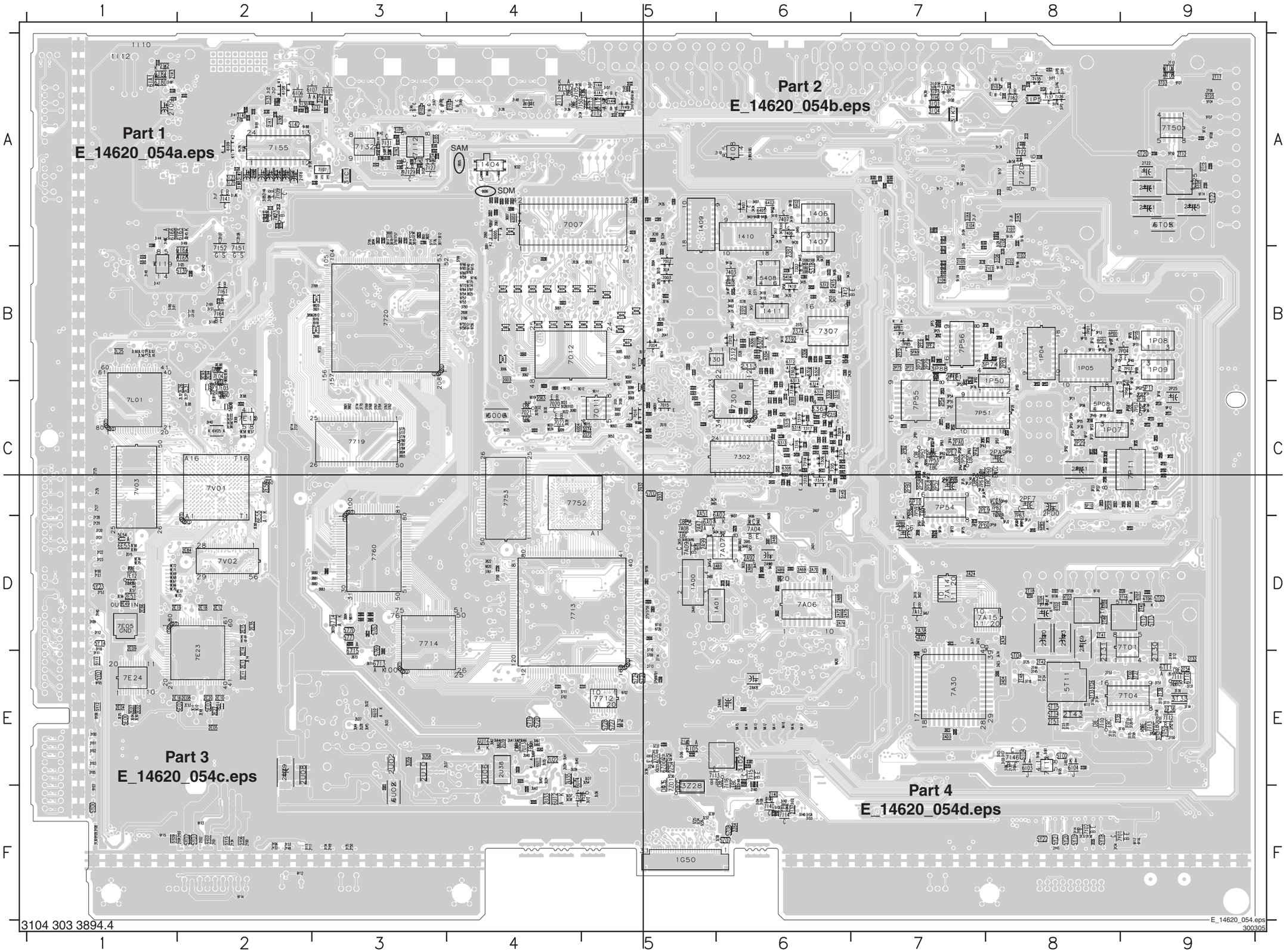
Layout SSB (Top Side Part 3)



Layout SSB (Top Side Part 4)



Layout SSB (Bottom Side Overview)



Layout SSB Mapping (Bottom Side)

1301	B5	2812	B3	2I59	E8	2PF7	C8	3031	B5	3441	B6	3C12	B5	3IH1	A5	3P66	B8	3V18	C2	5Y15	F2	7712	E5	9015	C5	9I65	A3
1404	A4	2817	D3	2I60	F6	2PG2	C9	3032	C4	3445	A6	3E04	E1	3IH2	F6	3P67	B7	3V37	C2	5Y18	F8	7713	D4	9019	C4	9I66	A3
1406	A6	2823	A3	2I69	B2	2PG6	D7	3034	B4	3450	B6	3E05	E1	3IH4	F6	3P68	B7	3V38	C2	5Y19	F8	7714	D3	9021	C4	9I67	A3
1407	A6	2825	A3	2I70	B2	2T01	A9	3036	C4	3451	B6	3E11	E2	3IH7	A3	3P69	B7	3V40	C2	5Y20	F8	7719	C3	9024	C4	9I68	A2
1409	A5	2827	A3	2IA4	A5	2T02	D9	3037	C4	3452	B6	3E12	E2	3IH8	A8	3P70	B7	3Y00	E1	5Y21	F8	7720	B3	9025	C4	9I78	B8
1410	B6	2882	D3	2IB7	E6	2T03	D8	3038	C4	3453	C6	3E14	E2	3IHG	A7	3P71	C8	3Y01	E1	5Y22	F8	7752	C5	9308	C6	9I79	A3
1411	B6	2883	D3	2IB8	A1	2T04	A9	3040	B5	3454	C6	3E18	D2	3II0	A8	3P72	B8	3Y02	E1	5Y23	D1	7753	C4	9309	C6	9I81	A2
1A00	D5	2884	D3	2IB9	B2	2T05	A9	3041	B5	3455	C6	3E19	D2	3II1	A8	3P74	B7	3Y03	E1	5Z07	F6	7760	D3	9310	C6	9I88	A2
1A01	D5	2885	D3	2IC3	A3	2T06	A9	3042	C5	3456	B6	3E51	D1	3II2	A8	3P75	D7	3Y05	E1	5Z08	F6	7A04	D6	9311	C6	9I91	A2
1G50	F5	2892	E3	2IC5	B1	2T07	D8	3045	A4	3457	B6	3E55	D1	3II3	A8	3P76	C7	3Y06	F2	6002	A4	7A06	D6	9312	C6	9I92	A7
1P04	B8	2893	D3	2IC6	A2	2T09	A9	3046	A4	3459	C6	3E56	D1	3II5	A2	3P79	C8	3Y08	F1	6004	C4	7A07	D6	9313	C6	9I93	A7
1P05	C8	2894	D3	2IC7	A2	2T10	D9	3048	B5	3463	B6	3E57	D1	3II6	A2	3P80	C8	3Y09	D1	6005	A4	7A08	D5	9318	B6	9I94	A7
1P07	C8	2920	D5	2IE0	B8	2T11	D8	3049	B5	3465	C6	3E58	D1	3II7	A2	3P81	C7	3Y10	D1	6006	C4	7A09	D5	9319	B6	9I96	B8
1P08	B9	2932	C5	2IF0	A1	2T12	A9	3050	B5	3467	C6	3E69	C2	3II8	B2	3P82	B7	3Y11	E1	6303	B6	7A13	D7	9401	A6	9I98	A2
1P09	C9	2933	C5	2IF8	A2	2T13	A9	3051	B5	3468	B6	3E70	C2	3II9	B2	3P85	B8	3Y12	D1	6304	B6	7A14	D7	9402	A6	9I99	F6
1P50	C8	2A01	D6	2IF9	A2	2T14	D8	3052	B4	3470	C6	3E81	C2	3IJ2	A2	3P86	B7	3Y13	F2	6306	B6	7A15	D8	9403	A6	9IA2	A3
2003	B4	2A07	C6	2IG1	A8	2T15	A9	3053	C5	3471	C6	3E82	B2	3IJ3	A2	3P87	B7	3Y14	F8	6307	B6	7A30	E7	9404	B6	9IA4	A5
2010	C5	2A19	D7	2IH1	B1	2T16	D9	3054	B4	3700	D4	3E83	C2	3IJ4	A2	3P88	B7	3Y20	D1	6308	C6	7E03	B2	9405	A6	9IA5	A5
2017	B5	2A24	D7	2IH3	A5	2T17	A9	3055	B4	3702	E4	3E84	B2	3IJ6	A2	3P92	C8	3Y21	D1	6312	B6	7E04	C2	9406	B6	9IB1	A7
2019	A5	2A34	D8	2IH6	A2	2T18	D8	3056	B4	3709	E5	3E85	B2	3IJ7	A2	3P94	C8	3Y22	D1	6313	B6	7E05	D1	9407	B6	9IB2	A7
2022	C4	2A38	D7	2IH7	A2	2T19	D8	3057	B4	3710	D5	3E86	B2	3IJ8	A7	3P95	C8	3Y23	D1	6314	C6	7E10	C2	9410	B6	9IB3	A2
2023	B4	2A47	D5	2IH8	A2	2T20	D8	3061	B4	3711	E4	3E88	D2	3IK4	A7	3P96	C7	3Y24	F8	6317	C6	7E12	D1	9413	B6	9ID1	A3
2024	B4	2A51	C5	2IH9	A2	2T21	A9	3062	B4	3757	A3	3E89	D1	3IK5	A8	3P97	D7	3Y25	F8	6334	B6	7E23	E2	9415	B6	9ID2	A3
2026	B5	2A64	D6	2IJ0	A8	2T22	A9	3064	C5	3758	E5	3E90	E1	3IK7	A7	3P98	C7	3Y30	F1	6402	A6	7E24	E1	9418	A6	9ID3	A2
2033	B5	2A69	D6	2IJ1	A7	2T30	E9	3067	B5	3759	D5	3I01	A8	3IK9	B2	3P99	C7	3Y33	F2	6403	B6	7I01	A8	9420	A6	9ID4	A2
2036	B4	2A70	D6	2IJ4	A8	2T31	E8	3069	C5	3761	D4	3I02	B8	3IN1	A7	3PC0	C8	3Y34	F3	6405	A6	7I02	A3	9421	C6	9ID5	A2
2038	B4	2A72	D6	2IJ5	E5	2T32	E9	3070	C4	3762	C3	3I03	B8	3IN2	A3	3PC5	B7	3Y35	F3	6713	E3	7I03	A4	9422	B6	9ID6	A2
2040	B4	2A74	D6	2IK1	A2	2T33	E8	3072	B4	3763	C3	3I04	A7	3IN3	A3	3PD7	C8	3Y37	F8	6714	D3	7I04	A4	9427	B6	9ID7	A2
2041	B5	2A75	D6	2IK2	A1	2T34	E8	3079	C5	3764	C3	3I05	B7	3IN8	A3	3PF5	B7	3Y38	F8	6715	E3	7I05	A5	9701	E5	9ID8	A2
2052	A4	2A79	D6	2IK3	A1	2T35	E8	3080	C4	3767	C3	3I06	B8	3IO5	A3	3PG1	C7	3Y40	D1	6A01	C5	7I07	A3	9702	E5	9ID9	A2
2053	A4	2A80	D6	2IK6	C6	2T36	E9	3081	B4	3768	C3	3I07	A5	3IO6	A3	3PG7	D7	3Z23	E5	6A02	C6	7I08	A6	9706	D5	9P04	B8
2054	A4	2A81	D6	2IL0	A7	2T37	E8	3082	B4	3769	C3	3I08	A8	3IP0	A8	3PG8	C7	3Z24	F5	6E53	D1	7I09	A2	9710	D5	9P05	B9
2055	A4	2A83	D6	2IN8	A2	2T38	E9	3083	B4	3770	C3	3I09	A8	3IP1	A8	3PH5	D8	3Z25	F5	6E55	D2	7I10	E8	9712	B4	9P07	C9
2056	A4	2A88	D6	2IN9	A2	2T40	D9	3085	B5	3771	A3	3I10	B7	3IP2	A8	3PH9	D7	3Z26	F5	6E56	C2	7I12	A3	9714	C2	9P09	B9
2057	A4	2A89	D6	2IR0	A3	2T41	D8	3086	B5	3772	A3	3I11	B7	3IP3	A7	3PI0	B7	3Z28	E5	6I01	A3	7I13	E5	9715	B4	9P10	B8
2060	A4	2A90	D6	2L18	B1	2T42	E8	3087	B4	3773	A3	3I12	B7	3IP4	A8	3PJ0	D8	3Z29	E5	6I03	E8	7I14	F6	9716	B4	9P11	B8
2061	A4	2A91	D5	2L25	B1	2T43	E8	3088	C5	3774	C3	3I13	B7	3IP5	A8	3PJ1	D8	3Z30	E5	6I04	E8	7I15	E6	9723	B3	9P12	C9
2063	C4	2A92	D6	2L26	C2	2T44	E8	3092	C5	3775	C3	3I14	B7	3IP6	A8	3PJ2	D8	3Z31	E5	6I05	E5	7I16	E6	9726	D5	9P16	B8
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2072	C5	2AA5	D6	2L31	C2	2T46	D8	3094	C5	3777	C3	3I16	B7	3IP8	A7	3PJ4	C7	3Z33	E5	6I07	A3	7I20	A8	9753	B4	9P18	B9
2074	C5	2AA9	D5	2L32	C2	2T47	E9	3095	C5	3779	C3	3I17	A7	3IP9	A3	3PJ5	C7	3Z36	E5	6I08	A2	7I22	A8	9754	B4	9P20	C8
2300	B6	2AB0	D5	2L56	B1	2T48	E8	3096	C5	3780	C3	3I18	A7	3IQ0	A7	3PJ6	C7	3Z37	F5	6I09	A2	7I23	A2	9755	B4	9P21	C8
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2321	C5	2AK8	E6	2P30	C8	2U24	E4	3311	C6	3811	A3	3I40	A2	3IV4	A2	3T16	E8	5404	B6	6P10	C7	7I50	A5	9820	D4	9P73	D7
2323	C5	2AN5	E6	2P31	C9	2U25	E4	3312	C6	3812	A3	3I41	A2	3IV5	A2	3T17	E8	5408	B6	6PB1	B7	7I51	B2	9823	B3	9P74	D7
2325	B6	2AN6	E6	2P32	D9	2U26	F4	3313	C6	3814	A3	3I42	B2	3IV6	A2	3T18	E8	5702	C5	6PB5	D8	7I52	B2	9A00	D6	9P75	D7
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2335	C6	2D04	D1	2P46	C9	2U29	F2	3316	C6	3818	A3	3I46	A1	3IW7	A2	3T22	E9	5723	E5	6T02	D8	7I62	A8	9A03	D6	9T02	D8
2337	C6	2D15	D1	2P47	C8	2U33	F4	3319	C6	3822	D4	3I47	B1	3IW8	A2	3T23	E8	5724	E5	6T03	A9	7I64	B2	9A07	D6	9T03	D8
2338	C6	2E02	E1	2P49	C8	2U35	E4	3323	B6	3825	B4	3I48	B1	3IW9	A6	3T24	E8	5727	E5	6T04	D8	7L01	B1	9A08	D6	9T04	A9
2341	C6	2E04	E1	2P51	C8	2U37	E3	3324	B6	3871	E3	3I49	A2	3IZ3	A2	3T25	E8	5728	E5	6T05	A9	7P01	B8	9A10	E6	9T05	A9
2342	C6	2E05	E2	2P52	C7	2U38	E4	3325	C6	3872	D3	3I85	A3	3IZ4	A2	3T26	E8	5763	D3	6T06	D9	7P03	B9	9A11	E6	9T06	D8
2343	C6	2E07	E1	2P53	C7	2U39	E4	3326	B6	3873	E3	3I98	A5	3IZ5	A2	3T27	E9	5769	E3	6T07	D9	7P04	B9	9A12	E6	9T07	A9
2345	A5	2E08	E2	2P54	C7	2U40	E4	3327	B6	3880	D3	3IA1	A5	3L02	B1	3T28	D8	5770	D3	6T08	A9	7P06	C9	9A13	E6	9T08	A9
2346	A5	2E09	D1	2P55	C7	2U41	E4	3328	B6	3881	D3	3IA4	A8	3L03	C2	3T29	E9	5771	D3	6T10	E9	7P07	C9	9A14	E6	9T09	D8
2354	B6	2E10	E2	2P56	C7	2U42	E4	3331	C5	3882	D3	3IA5	A8	3L06	C2	3T30	E9	5A07	D7	6T11	E9	7P11	C9	9A15	E6	9T10	D8
2366	B6	2E11	E2	2P57	C7	2Y00	F2	3333	B5	3883	D3	3IA6	A3	3L08	C2	3T31	E9	5E00	E1	6U02	E3	7P51	C7	9A16	E6	9T11	E8
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Personal Notes:

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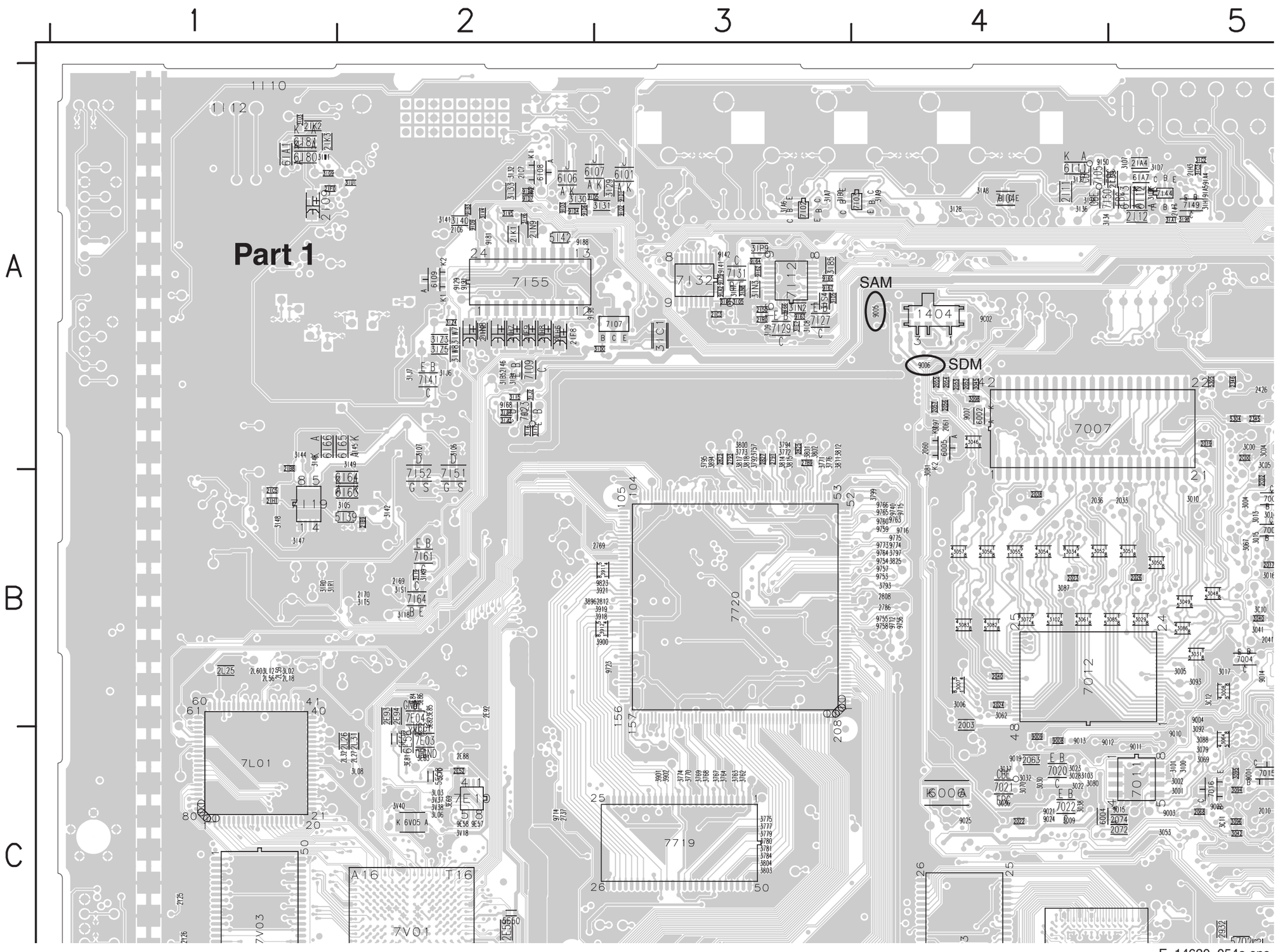
131004

Layout SSB (Bottom Side Part 1)



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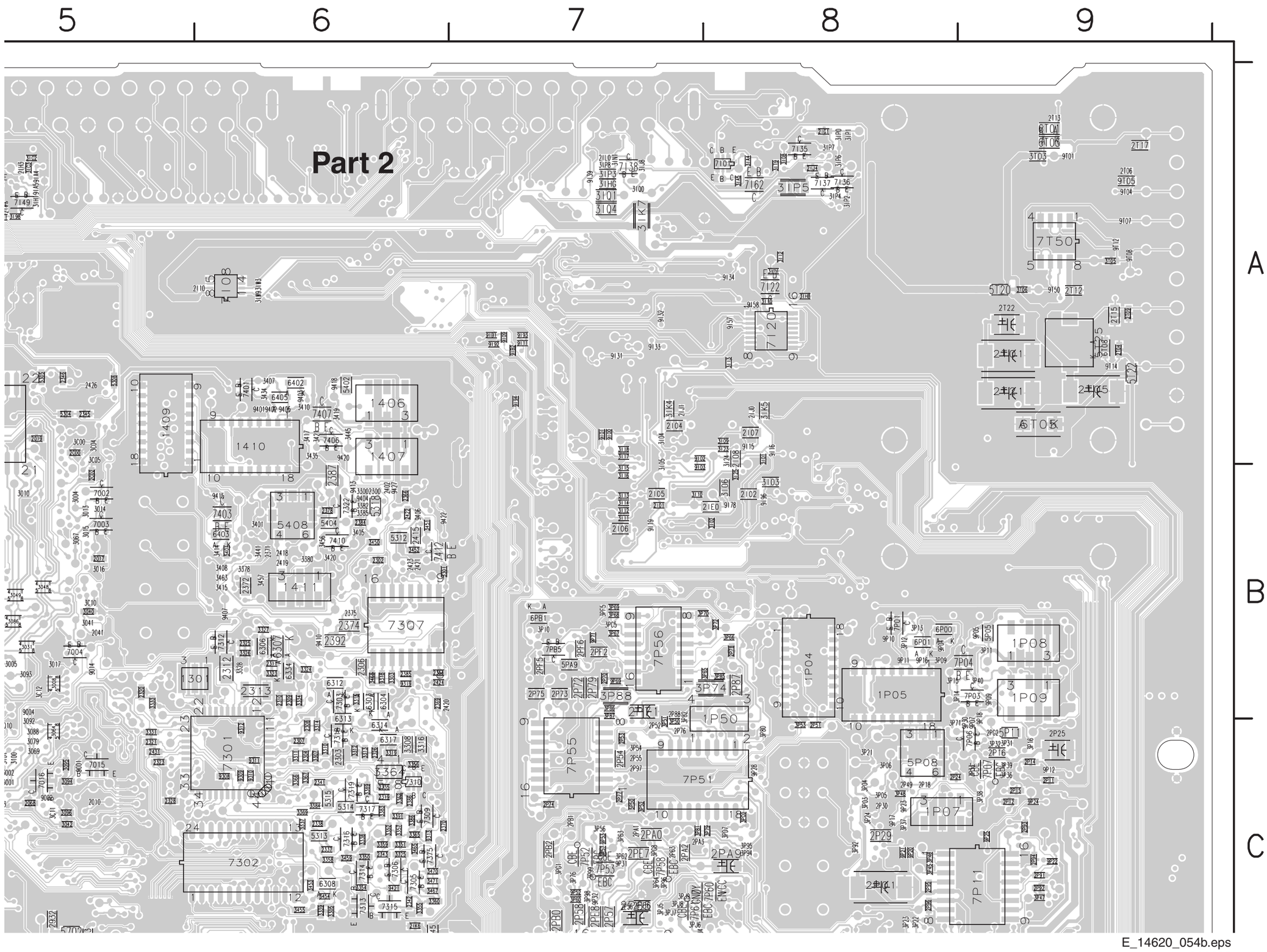
Layout SSB (Bottom Side Part 2)



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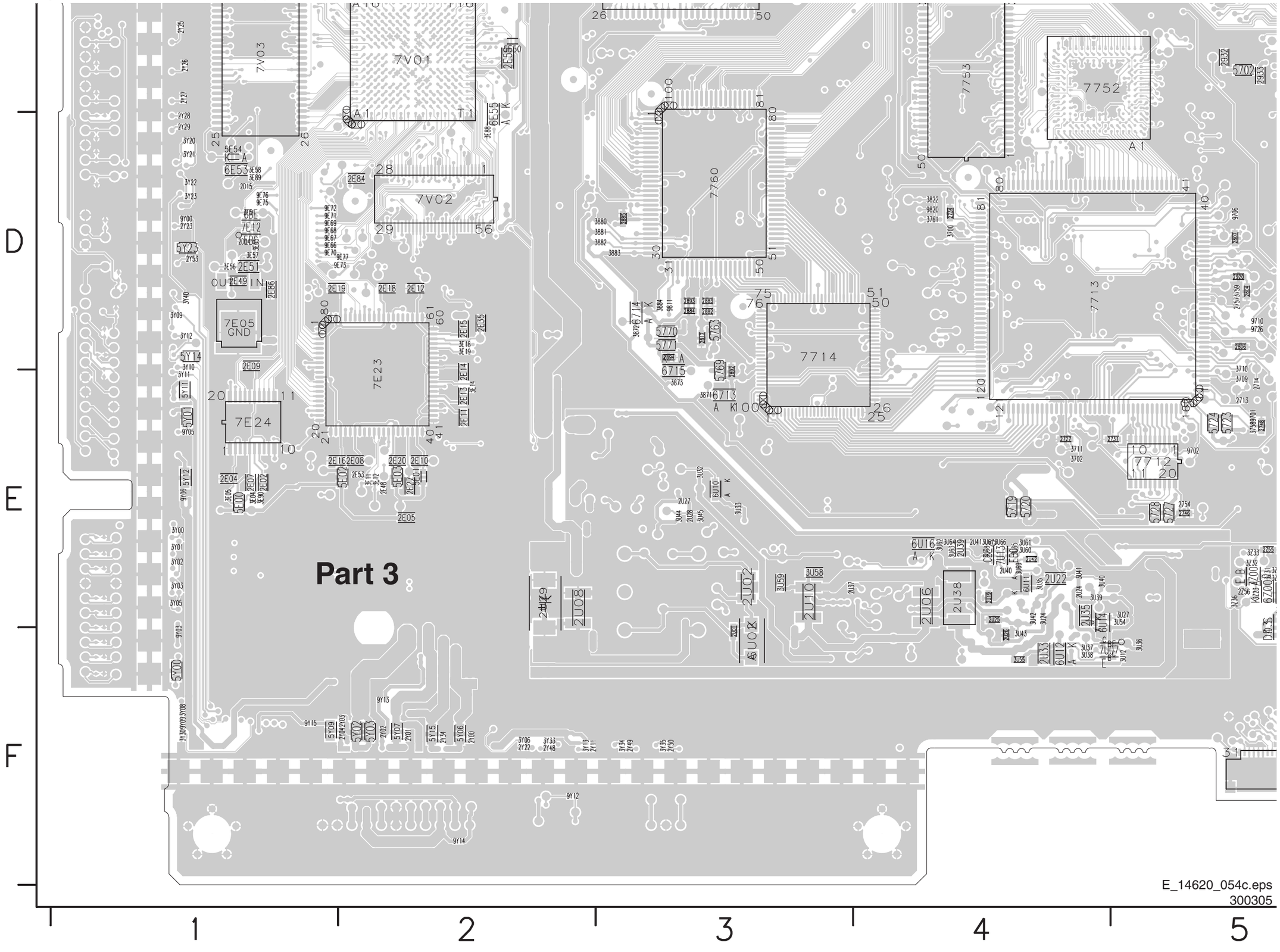
Layout SSB (Bottom Side Part 3)



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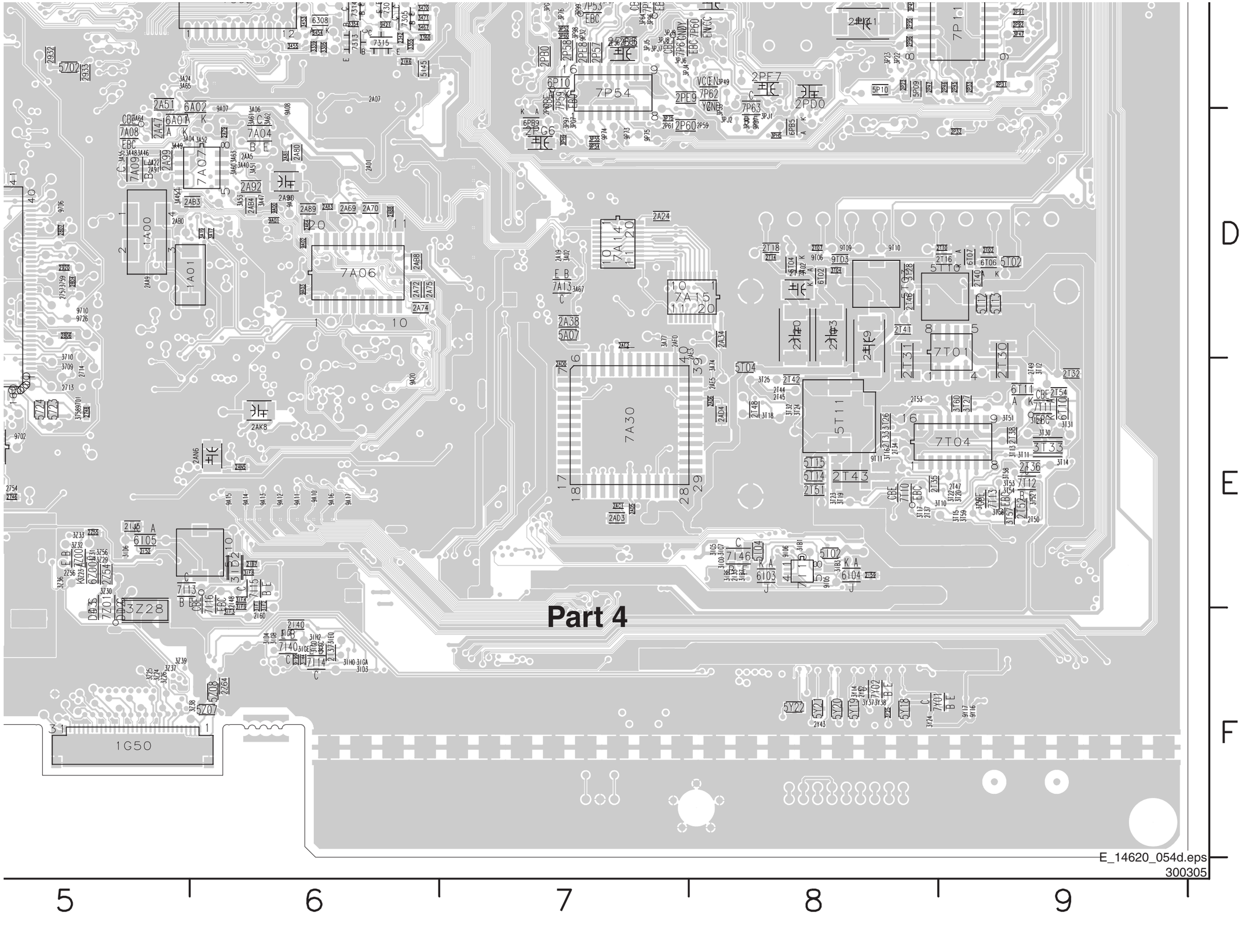
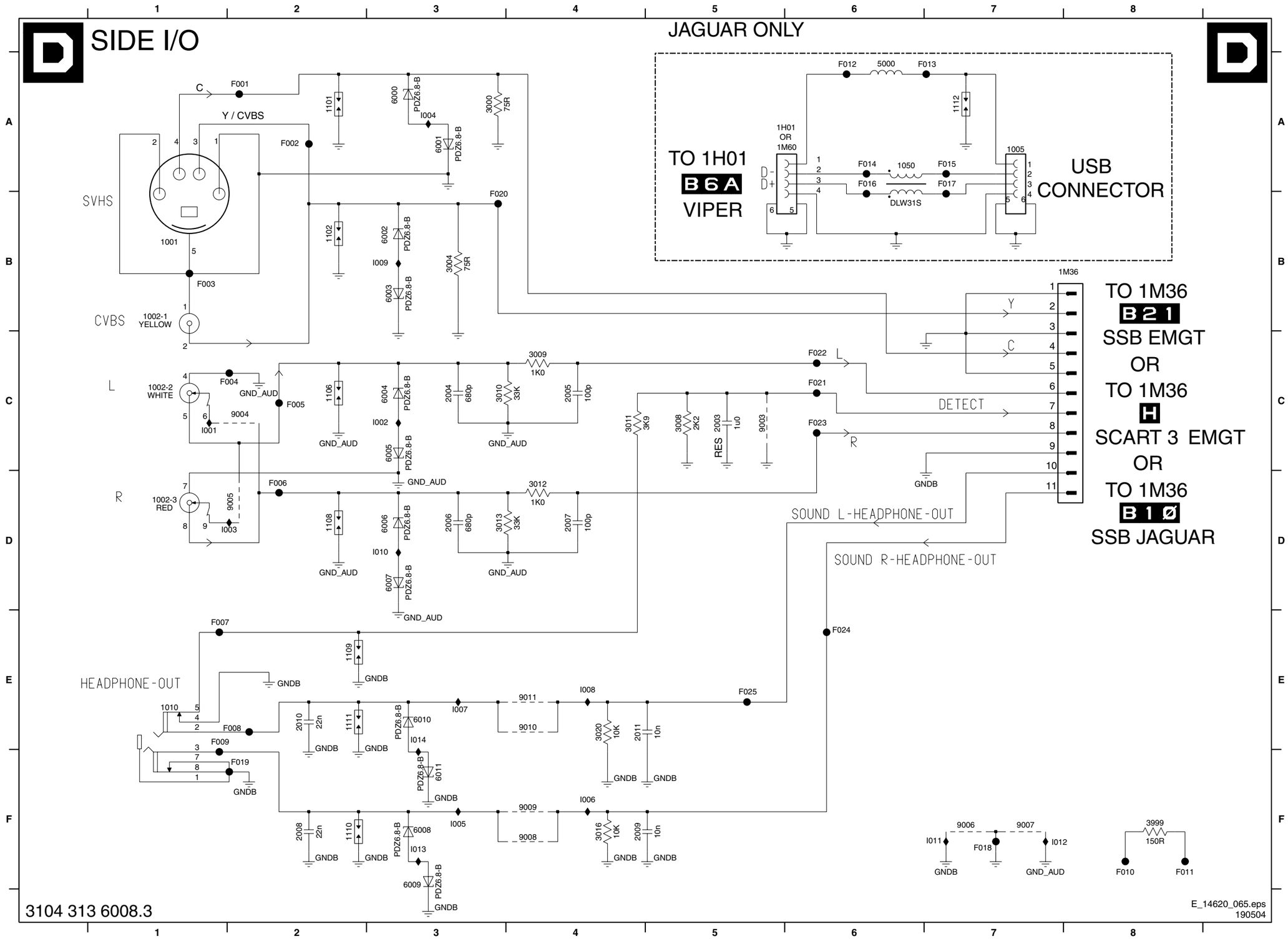


Side I/O Panel



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1002-1	B1	F004	C2
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1002-3	D1	F006	D2
1005	A7	F007	E1
1010	E1	F008	E2
1050	A6	F009	E1
1101	A2	F010	F8
1102	B2	F011	F8
1106	C2	F012	A6
1108	D2	F013	A7
1109	E2	F014	A6
1110	F2	F015	A7
1111	E2	F016	A6
1112	A7	F017	A7
1H01	A6	F018	F7
1M36	B8	F019	F2
2003	C5	F020	B3
2004	C3	F021	C6
2005	C4	F022	C6
2006	D3	F023	C6
2007	D4	F024	E6
2008	F2	F025	E5
2009	F4	I001	C1
2010	E2	I002	C3
2011	E4	I003	D2
3000	A3	I004	A3
3004	B3	I005	F3
3008	C5	I006	F4
3009	C4	I007	E3
3010	C3	I008	E4
3011	C4	I009	B3
3012	D4	I010	D3
3013	D3	I011	F7
3016	F4	I012	F7
3020	E4	I013	F3
3999	F8	I014	E3
5000	A6		
6000	A3		
6001	A3		
6002	B3		
6003	B3		
6004	C3		
6005	C3		
6006	D3		
6007	D3		
6008	F3		
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9003	C5		
9004	C2		
9005	D1		
9006	F7		
9007	F7		
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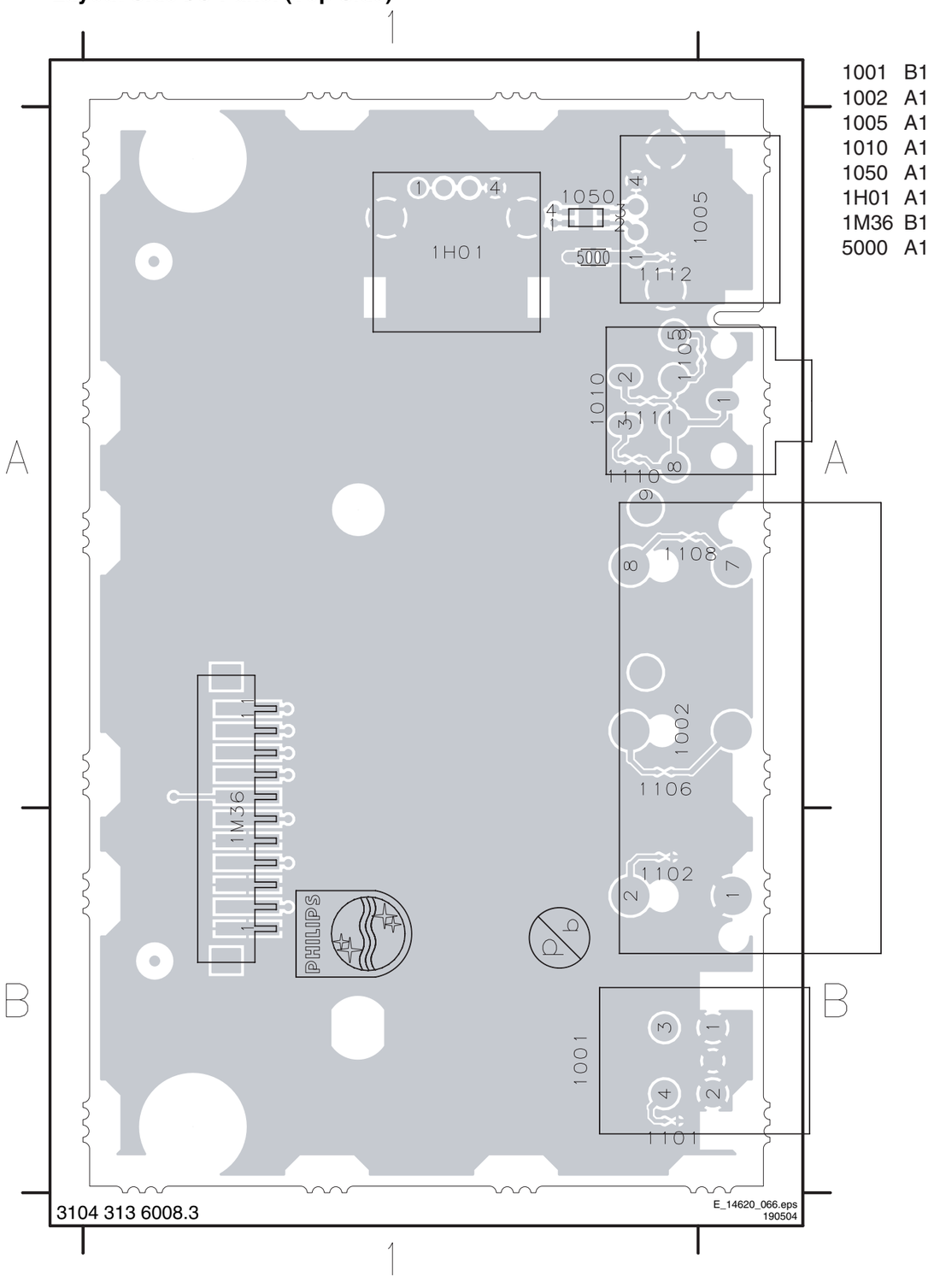
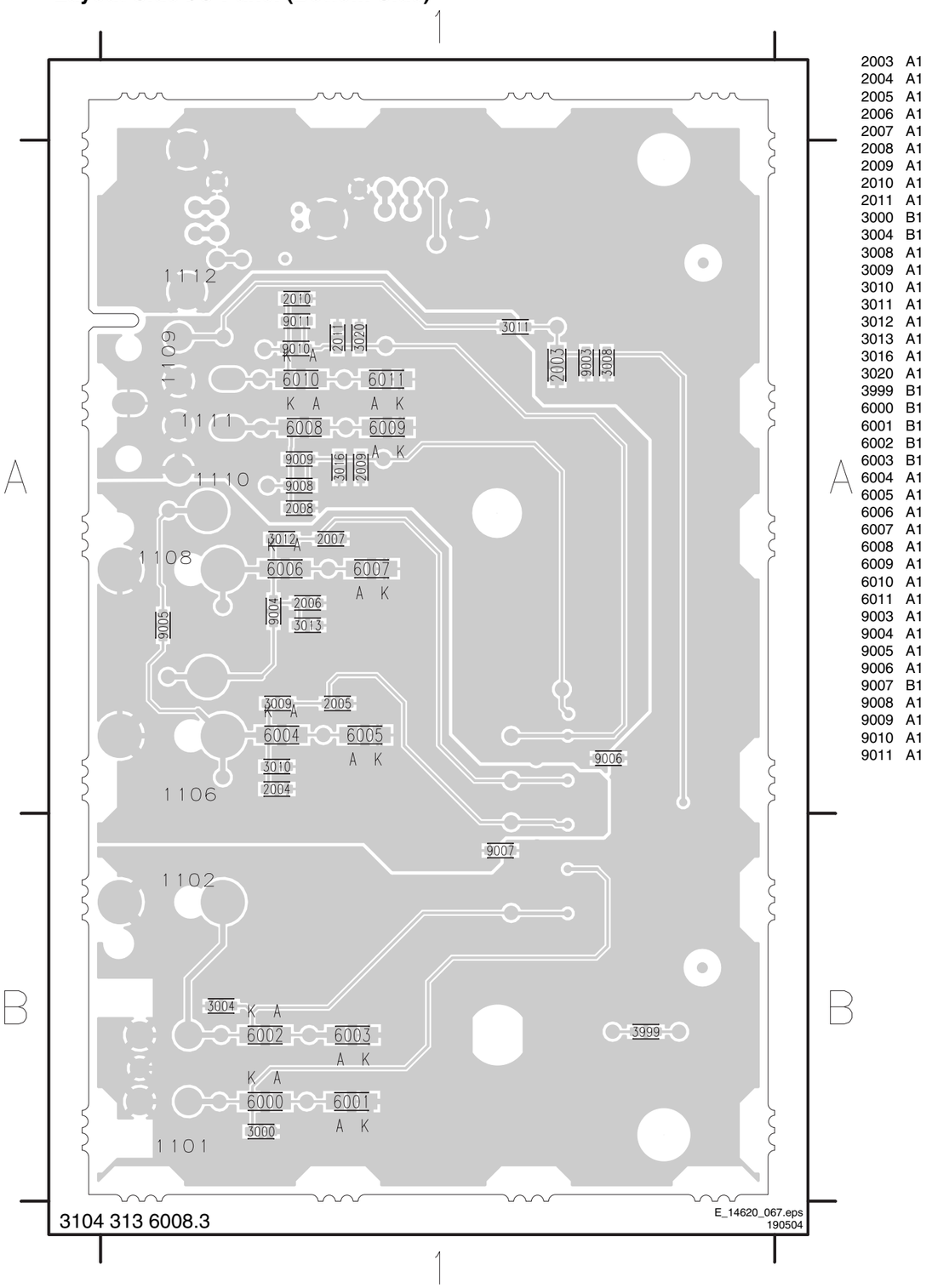
Layout Side I/O Panel (Top Side)

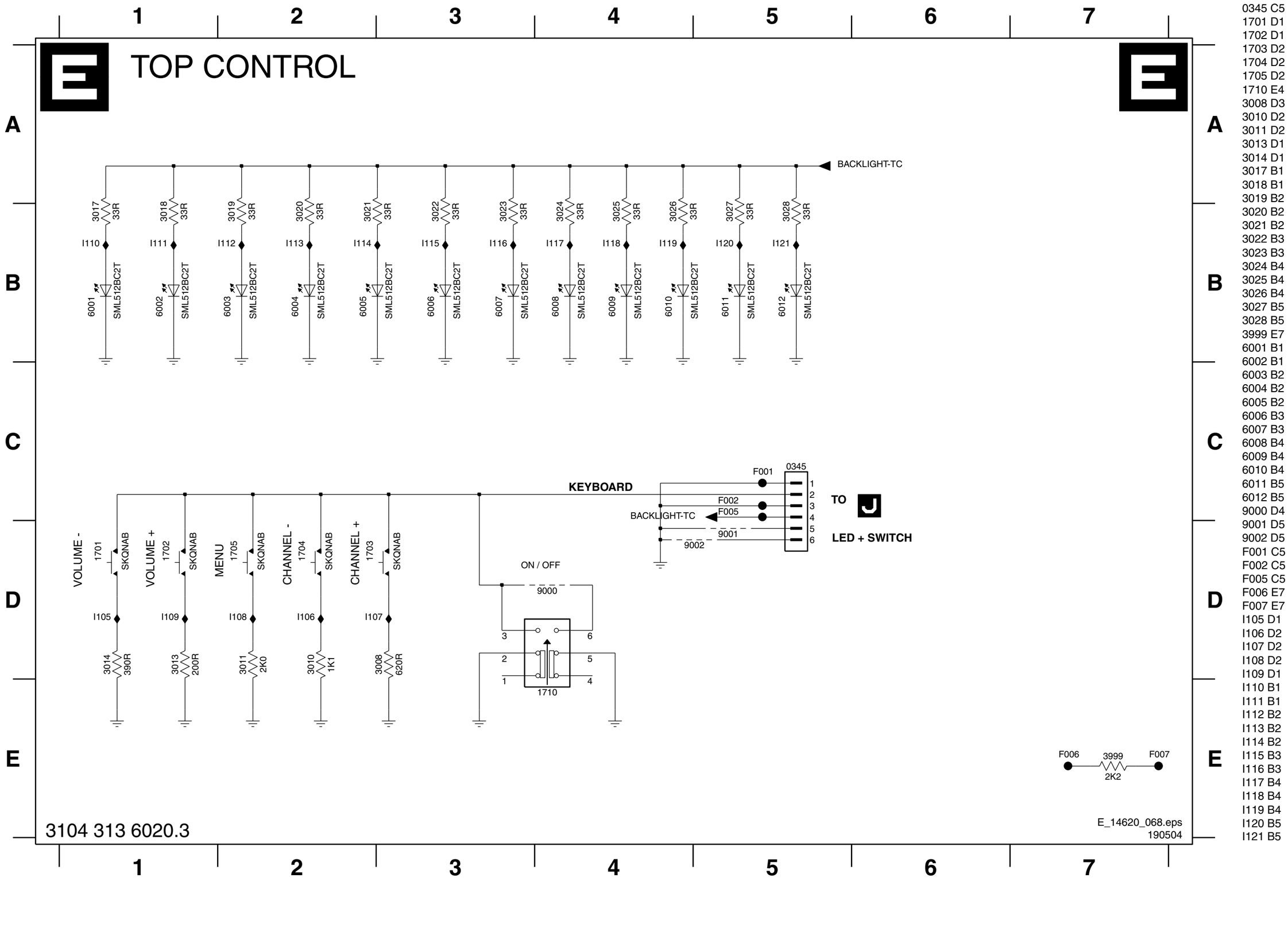


Layout Side I/O Panel (Bottom Side)



Top Control Panel

TOP CONTROL



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Layout Top Control Panel (Top Side)

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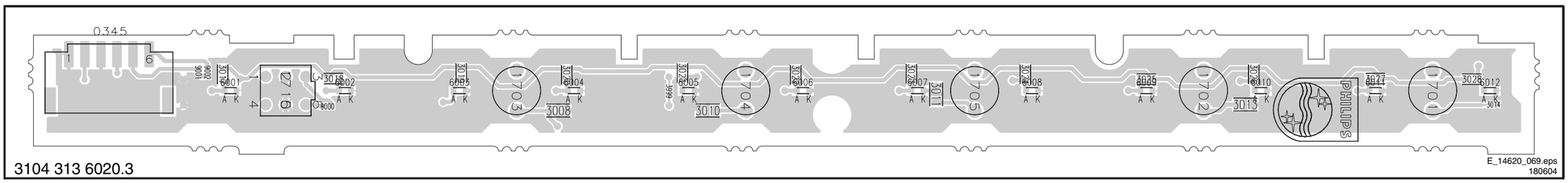
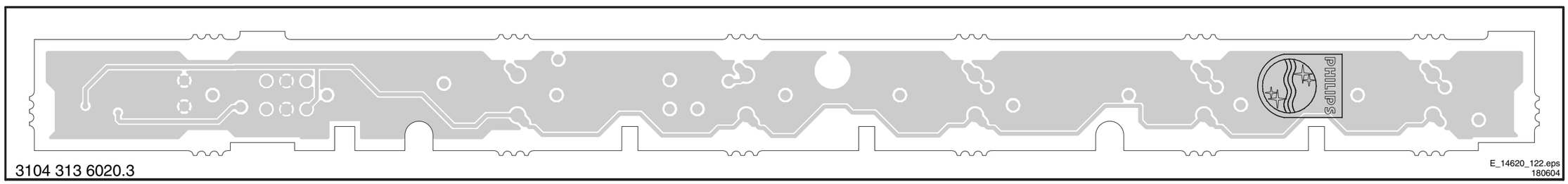


Layout Top Control Panel (Bottom Side)



SCART 3 Panel

SCART 3

SCART

TO 1M36 SIDE I/O **D**

ONLY FOR ITV

ONLY FOR ITV

TO 1M07 SSB EMG **B21**

TO 1M36 SSB EMG **B21**

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0244 B13 F513 A13
1003 B1 F514 A12
1005 C13 F515 A13
1500 B3 F516 A12
1501 C2 F517 C13
1502 C3 F518 C12
1504 E2 F519 C12
1505 E2 F520 E5
1506 D3 F521 E1
1507 D2 F522 E1
1508 C2 F523 F12
1509 B2 F524 F2
1510 D2 F525 F12
1511 B2 F526 F12
1512 C2 F527 F1
1513 C2 F528 G2
1514 E2 F529 G1
1M07 E12 F530 G12
1M36 F1 F531 A12
1M37 F12 F532 A5
2500 A4 F536 A9
2501 A3 F538 C2
2502 B4 F539 B5
2503 C3 F540 C5
2504 E6 F541 D7
2505 C5 F542 D5
2506 C6 F543 E5
2507 A9 F544 B10
2508 A9 F545 C10
2509 F6 F546 C12
2510 D4 F547 D12
2511 D9 F548 D13
2512 E8 F549 E12
2513 F9 I503 A3
2515 E5 I504 B2
2516 E6 I505 A4
2517 B5 I508 B3
2520 B12 I516 B3
2521 B12 I518 B4
2522 C12 I519 C3
2523 D11 I549 C2
2524 D12 I550 C2
3500 A3 I551 D2
3501 A3 I552 D2
3502 B4 I560 A5
3503 B3 I562 B5
3504 B3 I564 B7
3505 C4 I565 C7
3506 C2 I570 E5
3507 D2 I571 E6
3508 E2 I572 E7
3509 E3 I573 E7
3510 E3 I575 E7
3511 A6 I576 B6
3512 A6 I577 B6
3513 A7 I578 E8
3514 A7 I579 E7
3515 A7 I580 E9
3516 A8 I581 E6
3517 D8 I582 E6
3522 D3 I583 F9
3523 E8 c001 F7
3524 E9
3525 E9
3526 C3
3527 F8
3528 F8
3529 F9
3530 B12
3531 B12
3532 C12
3533 D12
3534 D12
3535 F9
3536 D9
3543 D3
3999 E1
6500 A3
6501 B3
6502 C3
6503 C3
6504 D8
6505 F2
6506 E2
6507 D3
6508 A8
7501 E9
7502 F9
7515 A6
7516 D6
9500 E4
9501 E7
9502 C7
9503 A12
9504 C12
9505 C12
9506 A12
9516 H8
9517 H7
9521 G7
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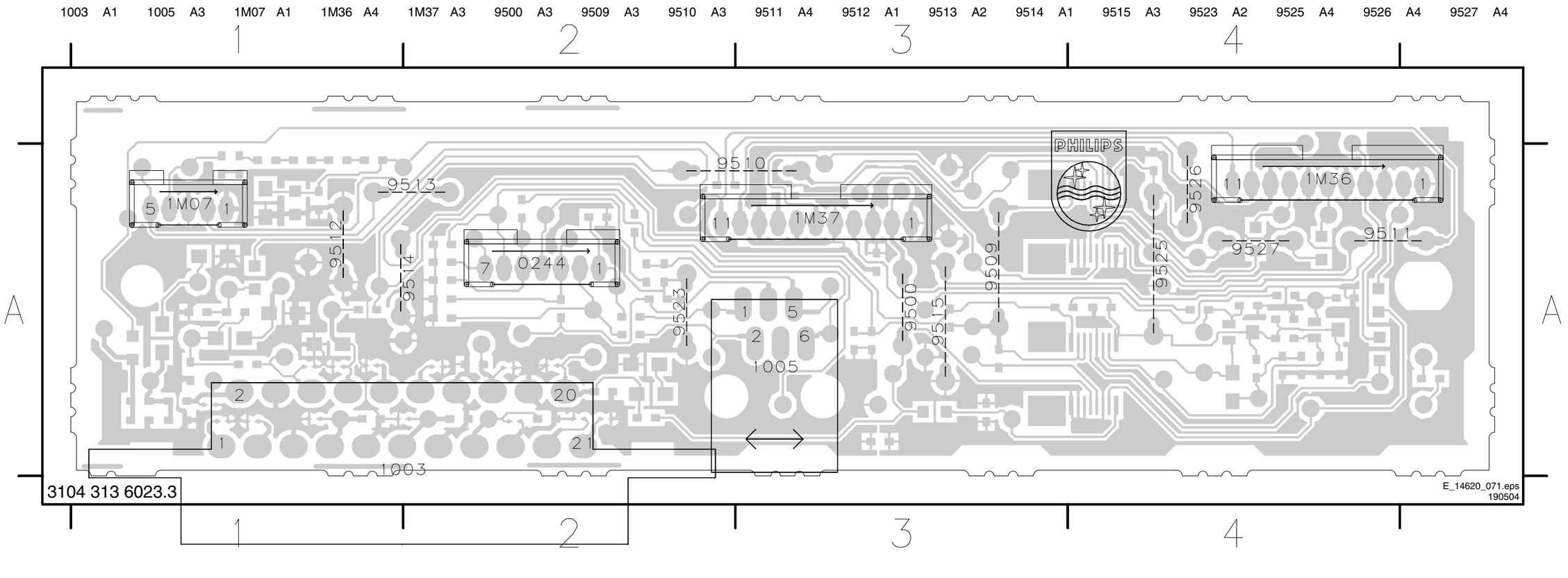
F501 B2
F502 C2
F503 D2
F510 A13
F512 A12

Layout SCART 3 Panel (Top Side)



Layout SCART 3 Panel (Bottom Side)

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2501 A4	2506 A1	2511 A1	2517 A1	2524 A3	3504 A4	3509 A3	3514 A4	3523 A1	3528 A1	3533 A3	3999 A1	6504 A1	7501 A1	9502 A2	9508 A3	
2502 A4	2507 A4	2512 A1	2520 A3	3500 A4	3505 A4	3510 A3	3515 A4	3524 A1	3529 A1	3534 A3	6500 A4	6505 A3	7502 A1	9503 A3	9516 A2	
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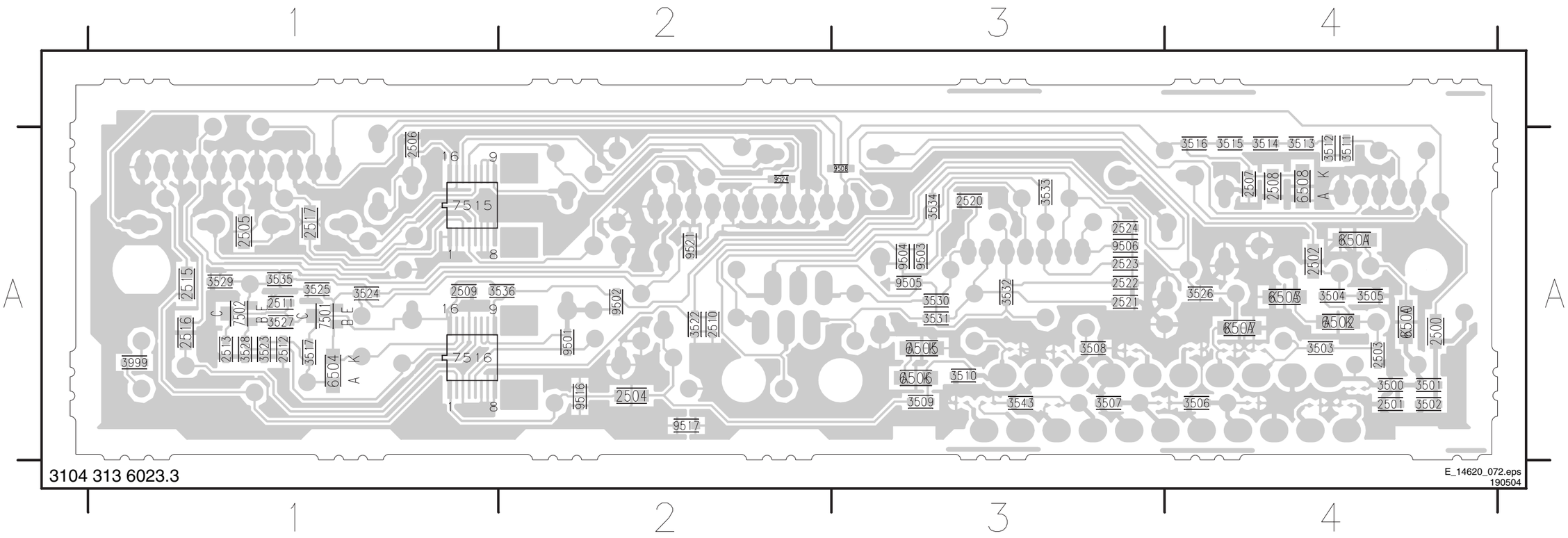
2504 A2	2509 A1	2515 A1	2522 A3	3502 A4	3507 A3	3512 A4	3517 A1	3526 A4	3531 A3	3536 A2	6502 A4	6507 A4	7516 A2	9505 A3	9521 A2	



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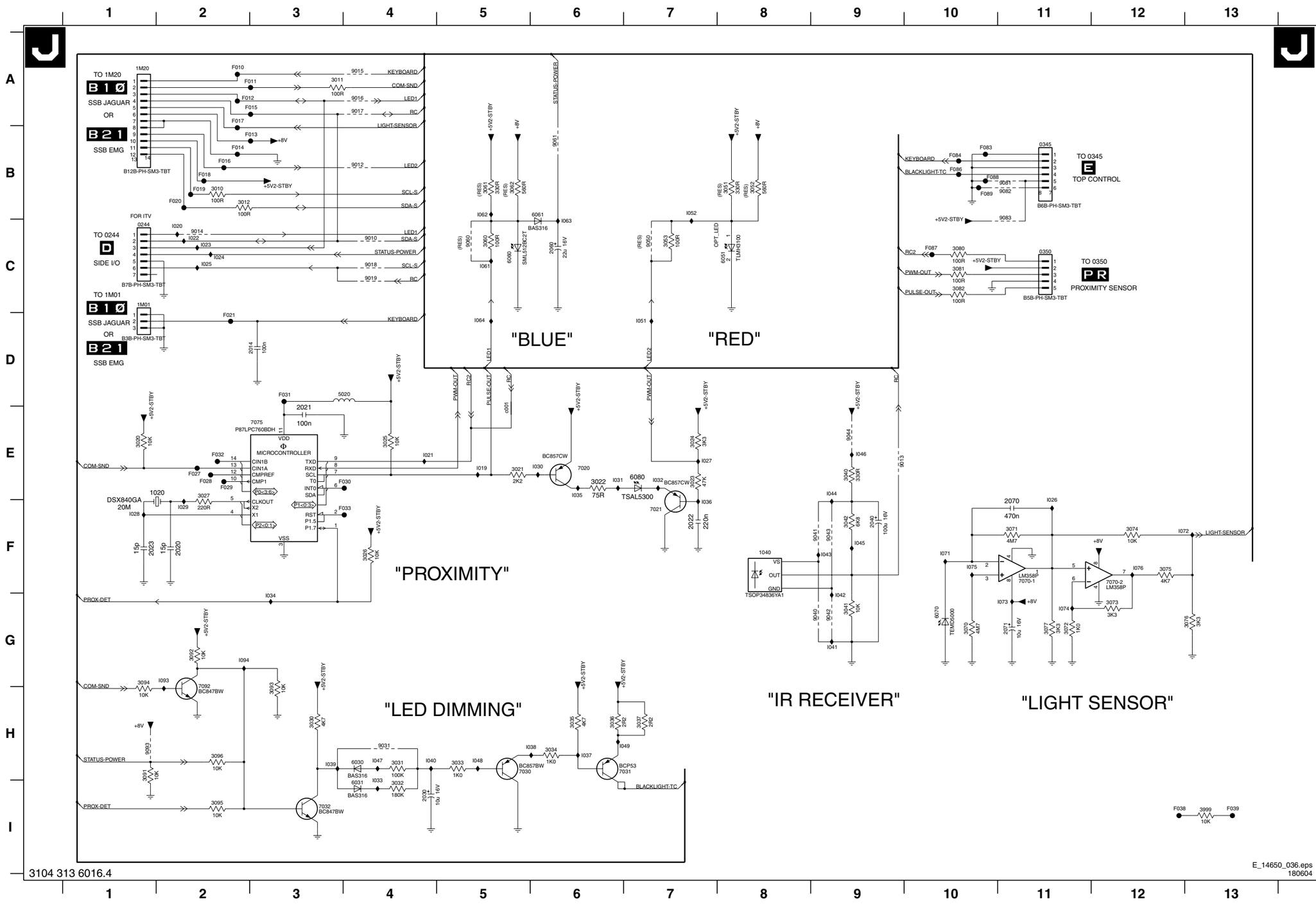
LED and Switch Panel



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1020 E2	F020 B2	3021 E5	I022 E6
1040 F8	F021 D2	3022 E6	I023 C2
1M01 C1	F027 E2	3023 E7	I024 C2
1M20 A1	F028 E2	3024 E7	I025 C2
2014 D3	F029 E2	3025 E4	I026 F11
2020 F2	F030 E4	3026 F4	I027 E7
2021 E3	F031 D3	3027 E2	I028 F1
2022 F7	F032 E2	3030 H3	I029 F2
2023 F1	F033 F4	3031 H4	I030 E6
2030 I4	F038 I12	3032 I4	I031 E6
2040 F9	F039 I13	3033 H5	I032 E7
2060 C6	F083 B10	3034 H6	I033 I4
2070 F11	F084 B10	3035 H6	I034 G3
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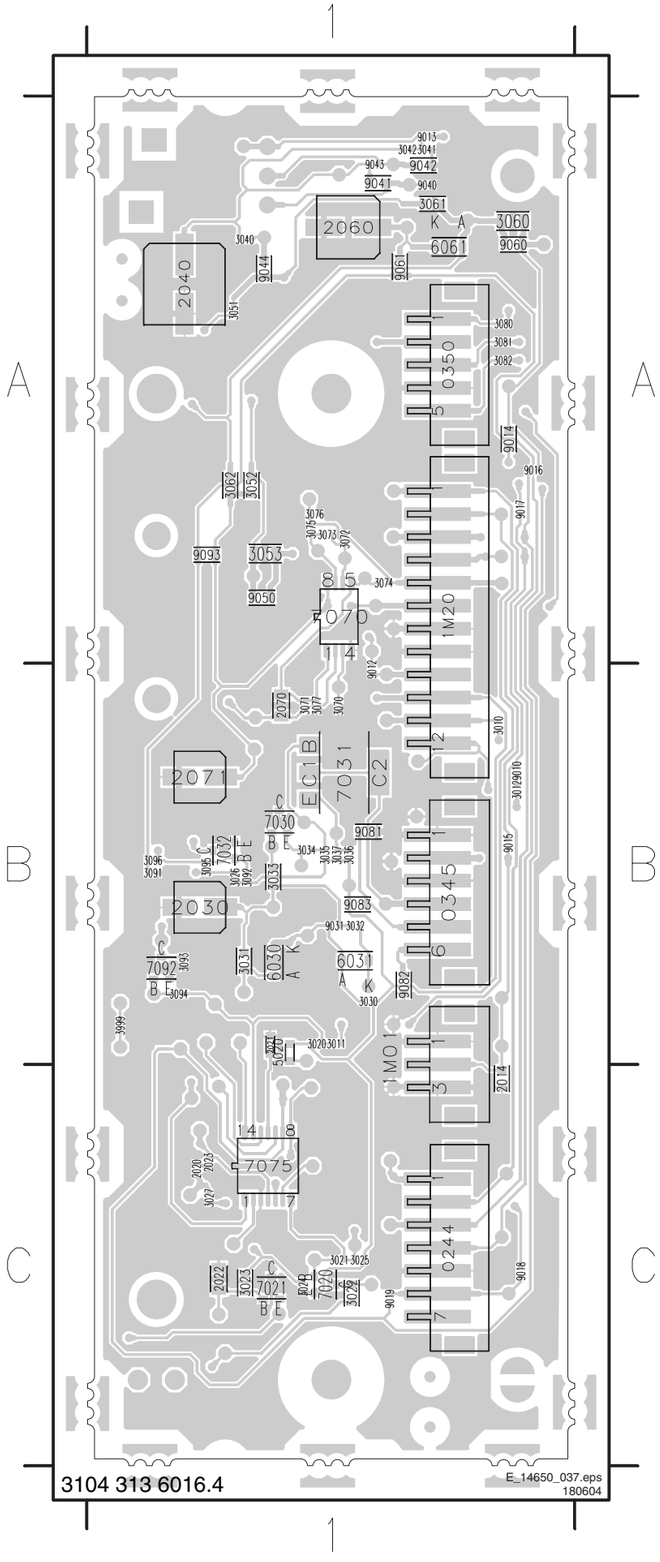
3010 B2	F087 C10	3037 H7	I036 F7
3011 A3	F088 B10	3040 E9	I037 H6
3012 B2	F089 B10	3041 G9	I038 H6
3020 E1	I019 E5	3042 F9	I039 H3
3021 E5	I020 C2	3051 B8	I040 H6
3022 E6	I021 E4	3052 B8	I041 G9
3023 E7	I022 C2	3053 C7	I042 G9
3024 E7	I023 C2	3060 C5	I043 F9
3025 E4	I024 C2	3061 B5	I044 E9
3026 F4	I025 C2	3062 B5	I045 F9
3027 E2	I026 F11	3070 G10	I046 E9
3030 H3	I027 E7	3071 F11	I047 H4
3031 H4	I028 F1	3072 G11	I048 H5
3032 I4	I029 F2	3073 G12	I049 H7
3033 H5	I030 E6	3074 F12	I051 D7
3034 H6	I031 E6	3075 F12	I052 B7
3035 H6	I032 E7	3076 G13	I061 C5
3036 H6	I033 I4	3077 G11	I062 B5
3037 H7	I034 G3	3080 C10	I063 C6
3040 E9	I035 E6	3081 C10	I064 D5
3041 G9	I036 F7	3082 C10	I071 F10
3042 F9	I037 H6	3091 H1	I072 F12
3051 B8	I038 H6	3092 G2	I073 G11
3052 B8	I039 H3	3093 H3	I074 G11
3053 C7	I040 H4	3094 G1	I075 F10
3060 C5	I041 G9	3095 I2	I076 F12
3061 B5	I042 G9	3096 H2	I093 G2
3062 B5	I043 F9	3999 I13	I094 G2
3070 G10	I044 E9	5020 D4	c001 E5
3071 F11	I045 F9	6030 H4	
3072 G11	I046 E9	6031 I4	
3073 G12	I047 H4	6051 C8	
3074 F12	I048 H5	6060 C5	
3075 F12	I049 H7	6061 B6	
3076 G13	I051 D7	6070 G10	
3077 G11	I052 B7	6080 E7	
3080 C10	I061 C5	7020 E6	
3081 C10	I062 B5	7021 F7	
3082 C10	I063 C6	7030 H5	
3091 H1	I064 D5	7031 H6	
3092 G2	I071 F10	7032 I3	
3093 H3	I072 F12	7070-1 F11	
3094 G1	I073 G11	7070-2 F12	
3095 I2	I074 G11	7075 E3	
3096 H2	I075 F10	7092 H2	
3999 I13	I076 F12	9010 C4	
5020 D4	I093 G2	9012 B4	
6030 H4	I094 G2	9013 E9	
6031 I4	c001 E5	9014 C2	
6051 C8		9015 A4	
6060 C5		9016 A4	
6061 B6		9017 A4	
6070 G10		9018 C4	
6080 E7		9019 C4	
7020 E6		9031 H4	
7021 F7		9040 G9	
7030 H5		9041 F9	
7031 H6		9042 G9	
7032 I3		9043 F9	
7070-1 F11		9044 E9	
7070-2 F12		9050 C7	
7075 E3		9060 C5	
7092 H2		9061 B6	
9010 C4		9081 B11	
9012 B4		9082 B11	
9013 E9		9083 C11	
9014 C2		9093 H1	
9015 A4		F010 A2	
9016 A4		F011 A3	
9017 A4		F012 A2	
9018 C4		F013 B3	
9019 C4		F014 B2	
9031 H4		F015 A3	
9040 G9		F016 B2	
9041 F9			
9042 G9			
9043 F9			
9044 E9			
9050 C7			
9060 C5			
9061 B6			
9081 B11			
9082 B11			
9083 C11			
9093 H1			
F010 A2			
F011 A3			
F012 A2			
F013 B3			
F014 B2			
F015 A3			
F016 B2			

Layout LED and Switch Panel (Top Side)



0244 C1
0345 B1
0350 A1
1040 A1
1M01 B1
1M20 A1
2014 C1
2020 C1
2021 B1
2022 C1
2023 C1
2030 B1
2040 A1
2060 A1
2070 B1
2071 B1
3010 B1
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3012 B1
3020 B1
3021 C1
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3060 A1
3061 A1
3062 A1
3070 B1
3071 B1
3072 A1
3073 A1
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6031 B1
6061 A1
6080 C1
7020 C1
7021 C1
7030 B1
7031 B1
7032 B1
7070 A1
7075 C1
7092 B1
9010 B1
9012 B1
9013 A1
9014 A1
9015 B1
9016 A1
9017 A1
9018 C1
9019 C1
9031 B1
9040 A1
9041 A1
9042 A1
9043 A1
9044 A1
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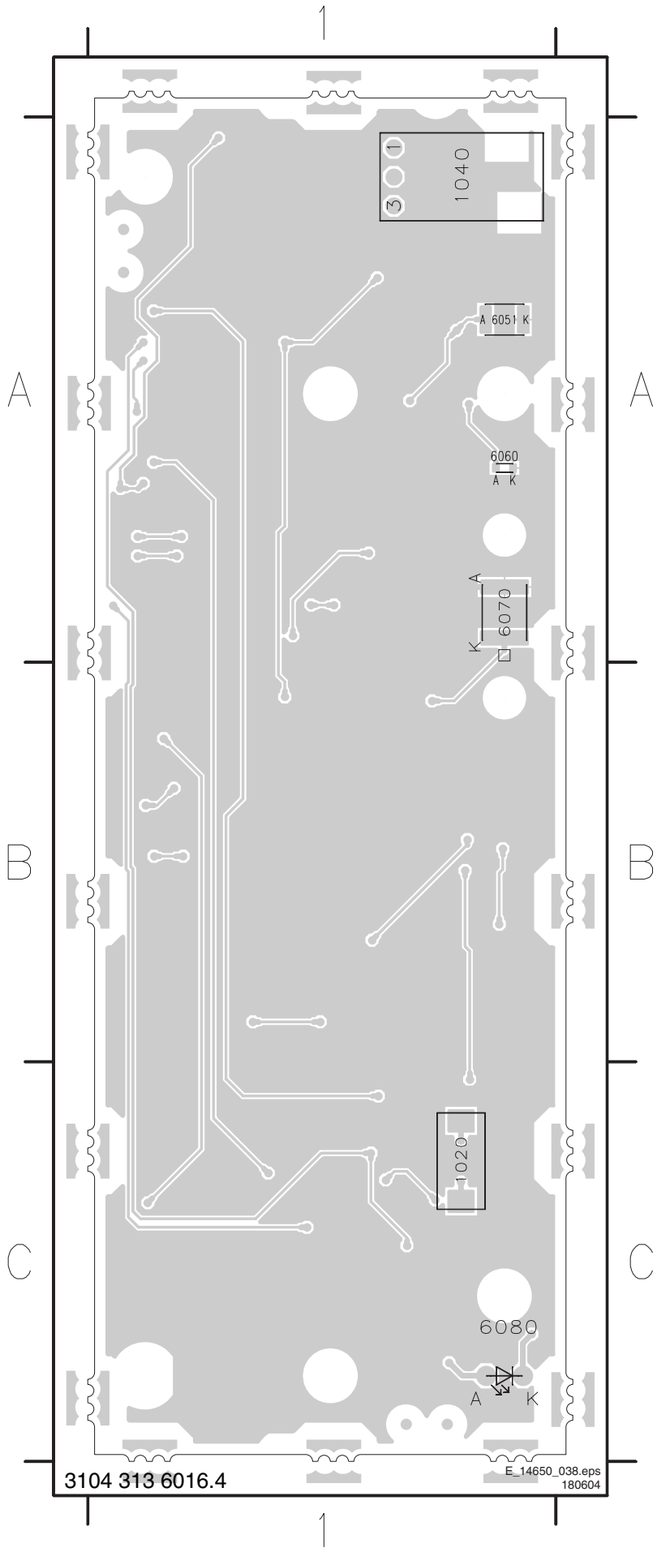
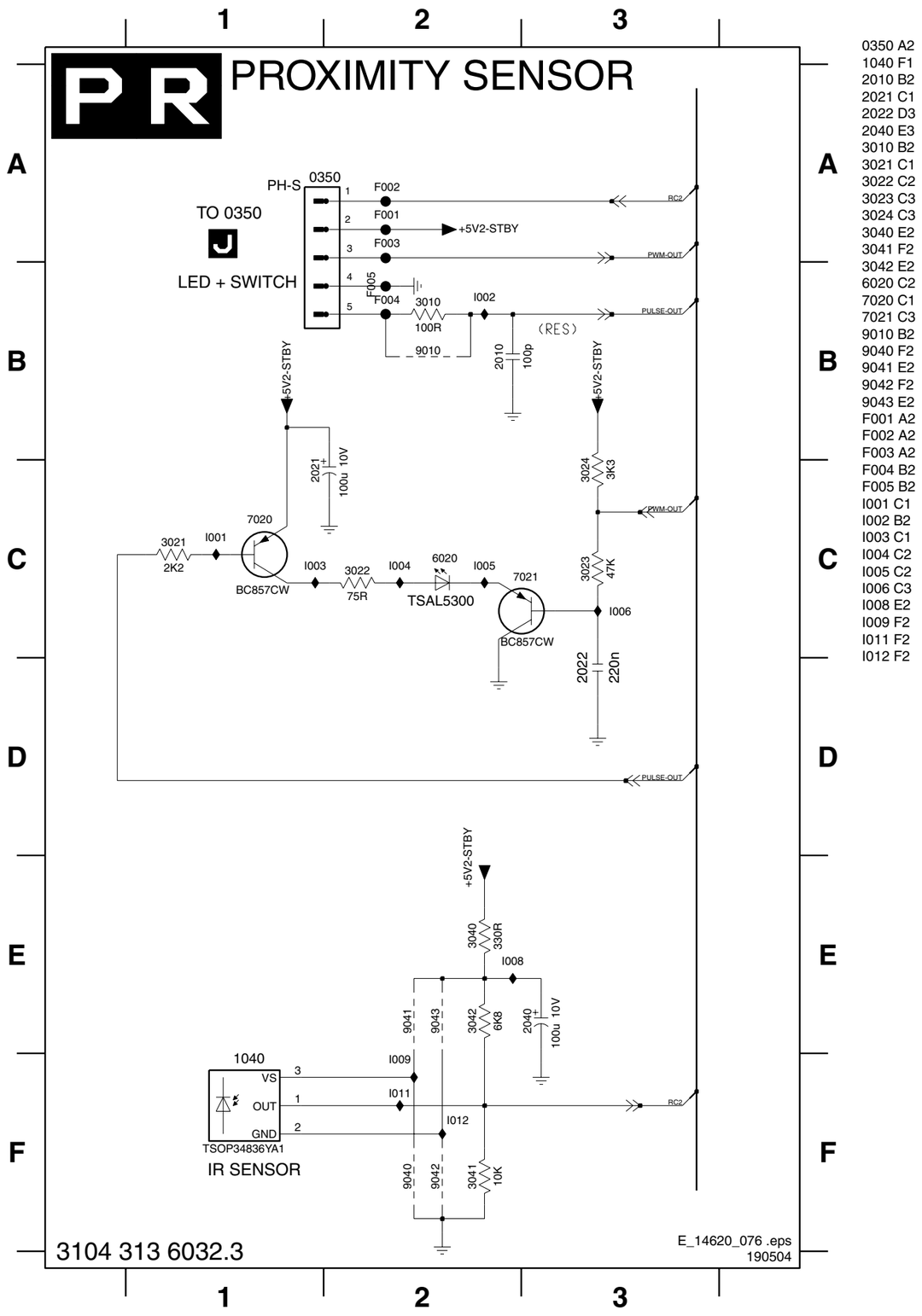
9060 A1
9061 A1
9081 B1
9082 B1
9083 B1
9093 A1

Layout LED and Switch Panel (Bottom Side)



1020 C1
1040 A1
6051 A1
6060 A1
6070 A1
6080 C1

Proximity Sensor

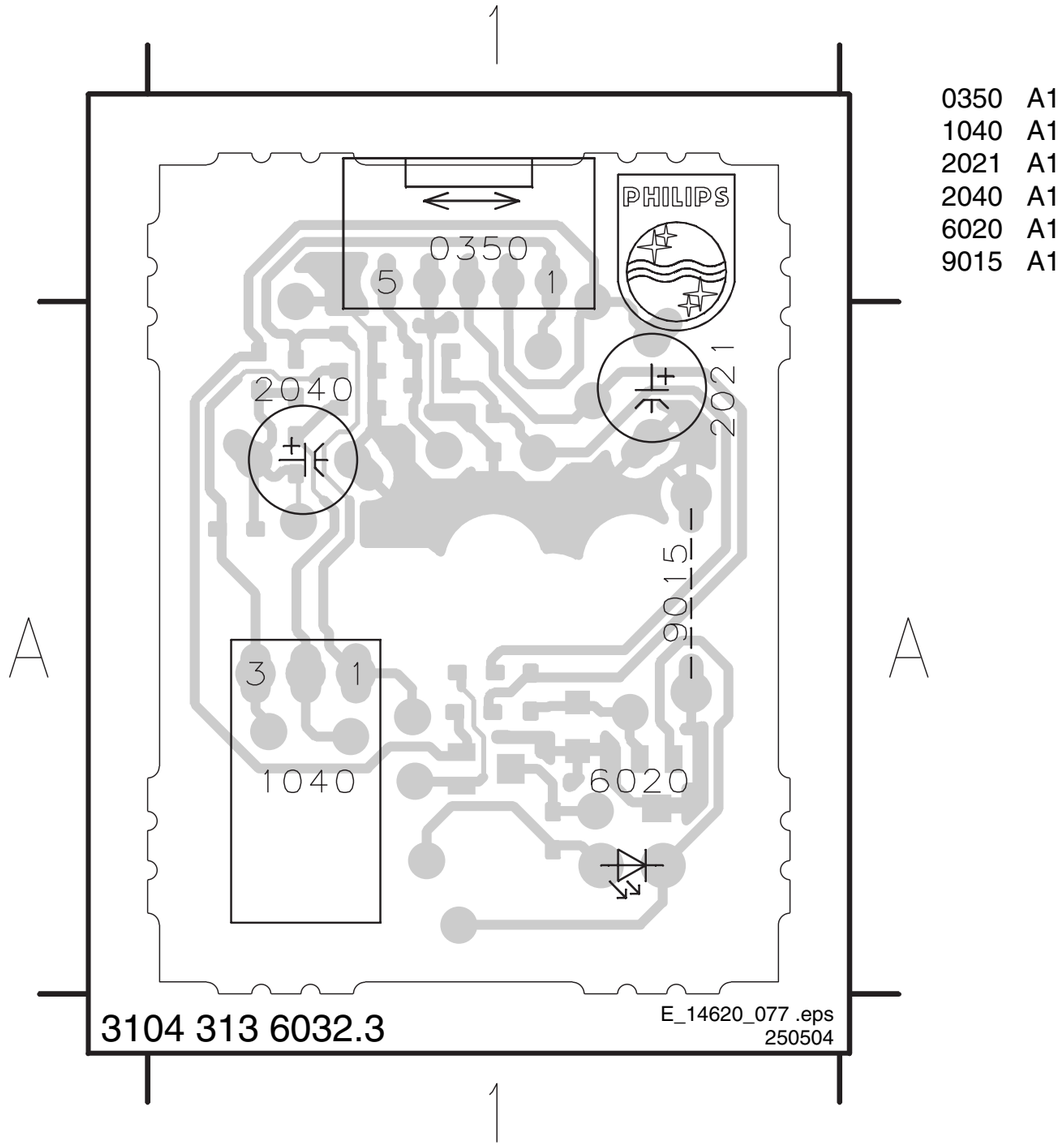


0350 A2
1040 F1
2010 B2
2021 C1
2022 D3
2040 E3
3010 B2
3021 C1
3022 C2
3023 C3
3024 C3
3040 E2
3041 F2
3042 E2
6020 C2
7020 C1
7021 C3
9010 B2
9040 F2
9041 E2
9042 F2
9043 E2
F001 A2
F002 A2
F003 A2
F004 B2
F005 B2
I001 C1
I002 B2
I003 C1
I004 C2
I005 C2
I006 C3
I008 E2
I009 F2
I011 F2
I012 F2

Personal Notes:

E_06532_012.eps
131004

Layout Proximity Sensor (Top Side)

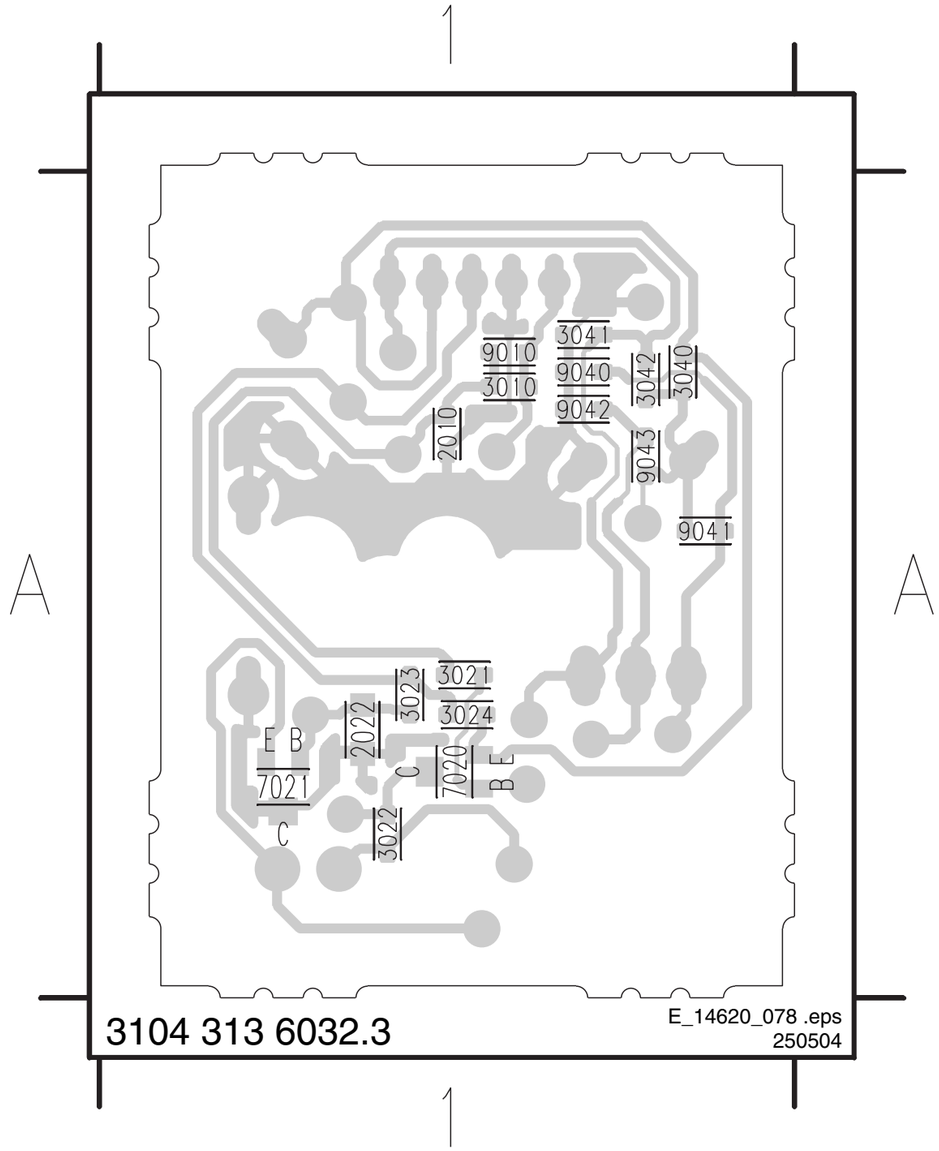


0350 A1
1040 A1
2021 A1
2040 A1
6020 A1
9015 A1

3104 313 6032.3

E_14620_077 .eps
250504

Layout Proximity Sensor (Bottom Side)



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1040 A1
2010 A1
2021 A1
2022 A1
2040 A1
3010 A1
3021 A1
3022 A1
3023 A1
3024 A1
3040 A1
3041 A1
3042 A1
6020 A1
7020 A1
7021 A1
9010 A1
9015 A1
9040 A1
9041 A1
9042 A1
9043 A1

3104 313 6032.3

E_14620_078 .eps
250504

LCD Standby Audio Panel: Connections

SA1 CONNECTIONS

SA1

TO DISPLAY 1314 — PH-B — GND-SSP
TO DISPLAY 1315 — PH-B
TO DISPLAY 1316 — B12P-PH-K — GND-SSP
TO DISPLAY 1317 — B12P-PH-K — GND-SSP
1318 — B6B-PH-K
+5V_SW, +5V_SW
9008 RES — F137
9009 RES — F138
9002 RES — GND-SSP
9003 RES — GND-SSP
ON_OFF SA1 (3x)
DIM_CONTROL SA1
DIM_CONTROL SA1
POR SA2
ON_OFF SA1 (3x)
DIM_CONTROL SA1
ON_OFF SA1 (3x)
STANDBY SA2
PROT_AUDIOSUPPLY SA2
+5V2-RELAY-IO2
F111 F113 F115 F121 F139 F122
+5V_SW 9113 GND-SSP
1M03 — PH-B
TO 1313 — 440091-7
TO 1312 — 440091-7
F102 F104 F105 F106 F107 F119
GND-SSP
TO 1303 A4 LCD SUPPLY 42"
1303 — B4P-VH — F103 — +24V_2
1M10 — B4P-VH — F110
TO AL AMBI LIGHT
1320 — B3P-VH — GND-SSP
TO 1320 A4 LCD SUPPLY 42"
1304 — B4P-VH — F101 — +12V_+24V — 9018 — F108 — +12V_A
TO 1304 A2 LCD SUPPLY 30"/37"/42"
TO 1304 AS1 LC04
9004 5018 68u RES 9010
9005 5019 68u RES 9011
F120
9006 9007
1309 — B3P-VH — F112 — GND-SSP
TO 1309 A2 LCD SUPPLY 30"/37"/42"
TO 1309 AS2 LC04
3190 1K2, 3191 1K2, 3192 1K2 — GND-SSP
TO 1M03 B21 SSB EMG
OR
TO 1M03 B1Ø SSB JAGUAR
1M46 — B11B-PH-K
F131 — GND-SSP
F135 +8V6
F136 +12V
F109 +5V_SW
GND-SSP
F114 VTUN — +5V2 — F132
+12V
9V_STBY — F117
9V_STBY_SW
9001
TO 1M46 B21 SSB EMG
OR
TO 1M46 B1Ø SSB JAGUAR
0001 GND screw 1 GND-SSP

8204 000 8314.5

E_14620_132.eps
281204

0001 E1
1303 A9
1304 B9
1309 D9
1312 A8
1313 A7
1314 B1
1315 B2
1316 A3
1317 A4
1318 A5
1320 B9
1M03 B7
1M10 A9
1M46 D7
3190 D9
3191 D9
3192 D9
5018 C8
5019 D8
9001 E6
9002 B5
9003 B5
9004 C8
9005 D8
9006 C9
9007 C9
9008 A5
9009 A5
9010 C8
9011 D8
9018 B10
9113 B6
F101 B10
F102 A8
F103 A9
F104 A7
F105 A7
F106 A7
F107 B7
F108 B10
F109 E6
F110 B9
F111 B6
F112 D10
F113 B6
F114 E6
F115 B6
F117 E6
F119 B7
F120 C8
F121 B6
F122 C6
F131 D6
F132 E6
F135 D6
F136 D6
F137 A5
F138 B5
F139 C6

LCD Standby Audio Panel: Standby

SA2 STANDBY

Caution: Both ⏚ and ⏚ symbols can indicate a HOT ground in this schematic!!

SA2

COLD GROUND

HOT GROUND

TO 1306 AS1 LC04

TO 1306 A1 LCD SUPPLY 30"/37"/42"

TO 1307 AS1 LC04

TO 1307 A1 LCD SUPPLY 30"/37"/42"

TO 1305 AS1 LC04

TO 1305 A1 LCD SUPPLY 30"/37"/42"

HOT GROUND COLD GROUND

8204 000 8314.5

E_14620_133.eps 281204

1301 B2	3508 F13	9021 B3	I191 G5
1305 D13	3509 A7	9022 B4	I192 H9
1306 B3	3510 F12	9023 B3	I197 C9
1307 H4	3511 B9	9110 H10	I198 D7
1310 A13	3512 C9	9111 D1	I199 D5
1311 A12	3513 D10	9112 E9	I501 F7
2101 C2	3515 B8	F100 D5	I502 F7
2102 F2	3516 A9	F123 B4	I503 F6
2103 D2	3517 A11	F124 B4	I504 F12
2105 D2	3528 C11	F125 D13	I505 F13
2107 A4	3529 C12	F126 E13	I506 F13
2108 B4	3530 D13	F127 H4	I507 F13
2109 F7	3531 C13	F128 H4	I508 A8
2110 F2	3532 C12	F129 H4	I509 A9
2111 E2	3533 D12	F130 H4	I510 A10
2112 D4	3534 H9	F133 H8	I511 A10
2118 D7	3535 H9	F134 H8	I512 H9
2123 E4	3536 H10	I100 B4	I513 D1
2124 H2	3537 H9	I101 A6	
2129 B6	3538 F8	I102 A7	
2131 C10	3539 H10	I103 C9	
2132 C11	3540 G13	I104 B10	
2140 F8	3541 G12	I105 B7	
2141 D7	3542 H13	I106 C11	
2143 D7	3544 G12	I107 C8	
2144 F2	3560 E12	I108 C9	
2145 D3	3561 F12	I109 C11	
2149 G7	3562 E12	I110 C3	
2150 G5	3999 H8	I111 C3	
2152 B4	5102 D1	I112 C10	
2153 F5	5103 E7	I113 B4	
2154 G10	5104 C5	I114 B6	
2159 D2	5105 C5	I115 C12	
2160 C9	5106 D1	I116 C10	
2162 D2	5108 D5	I117 C12	
2163 F2	5110 B6	I118 C5	
2506 C6	5112 D7	I119 C4	
2507 B7	5115 D8	I120 C6	
2508 C7	5500 B6	I121 C13	
2509 F13	5501 B4	I122 C2	
2510 E8	5504 B4	I123 C6	
2511 B9	5505 B4	I124 C5	
2512 E10	5506 E9	I125 D8	
2513 E7	5507 B9	I126 D9	
2515 B10	5508 E9	I127 C8	
2533 F11	6103 C1	I128 D7	
2534 E8	6104 D3	I129 D7	
2535 D10	6105 C4	I130 C4	
2536 D12	6106 F3	I131 C2	
2537 D13	6107 E7	I132 C4	
2538 H9	6108 F3	I133 C5	
2539 E8	6113 C7	I134 D3	
2540 H13	6114 G2	I135 D3	
2544 G13	6115 D4	I136 D2	
3100 F3	6116 F4	I137 E7	
3101 D3	6117 C3	I138 E7	
3102 D2	6118 B3	I139 E12	
3103 D2	6119 B3	I140 C1	
3104 D3	6120 G7	I141 D3	
3105 D2	6121 G7	I142 D2	
3106 E1	6122 E7	I143 D3	
3107 F1	6125 C8	I144 D2	
3108 D4	6130 B10	I145 D3	
3109 F1	6132 C10	I146 D4	
3110 F1	6133 C9	I147 E2	
3111 D2	6134 C9	I148 E10	
3112 G1	6140 D7	I149 E7	
3113 E7	6142 F3	I150 E13	
3114 F6	6144 D3	I151 E13	
3117 D3	6147 D5	I152 E12	
3122 B6	6148 F8	I153 E1	
3123 F7	6149 F9	I154 E4	
3124 F7	6150 G4	I155 E4	
3125 E3	6151 G5	I156 E4	
3126 E4	6153 H6	I157 F6	
3127 F4	6156 H5	I158 F7	
3128 F6	6504 A7	I159 F8	
3132 D9	6505 E7	I160 F8	
3134 C10	6508 G9	I161 F9	
3135 C10	6510 E13	I162 E2	
3137 D8	6511 A8	I163 F9	
3138 D3	6531 F10	I164 F7	
3140 C8	6532 C11	I165 F7	
3141 F10	6540 F12	I166 F3	
3142 F9	6562 E13	I167 F4	
3145 G2	7100 F4	I168 F9	
3146 F4	7101 D4	I169 F2	
3147 H3	7102 C4	I170 G8	
3148 E4	7105 E4	I171 F5	
3149 E4	7131 B10	I172 F2	
3150 D4	7140 F10	I173 F2	
3152 D3	7150 H6	I174 F3	
3153 C8	7501 F6	I175 F5	
3155 G5	7505 G13	I176 G7	
3156 G6	7506 C11	I177 F2	
3157 H5	7507 C12	I178 G13	
3158 G6	7508 H10	I179 G12	
3159 E8	7509 G12	I180 G5	
3160 D4	7510 F13	I181 G2	
3161 C10	7511 A8	I182 G13	
3171 C9	7512 A10	I183 G5	
3172 C10	7531 E11	I184 G6	
3175 F8	7532 D9	I185 F3	
3506 G12	9019 A8	I189 H10	
3507 F13	9020 C3	I190 G2	

LCD Standby Audio Panel: Audio

0044 F13	2705 A7	2715 F4	2726 E3	2758 G9	2780 E5	2790 E2	3701 E6	3711 D5	3722 C2
0045 B2	2706 B4	2716 E4	2727 E3	2759 F8	2781 D5	2791 C7	3702 B6	3712 E3	3723 C2
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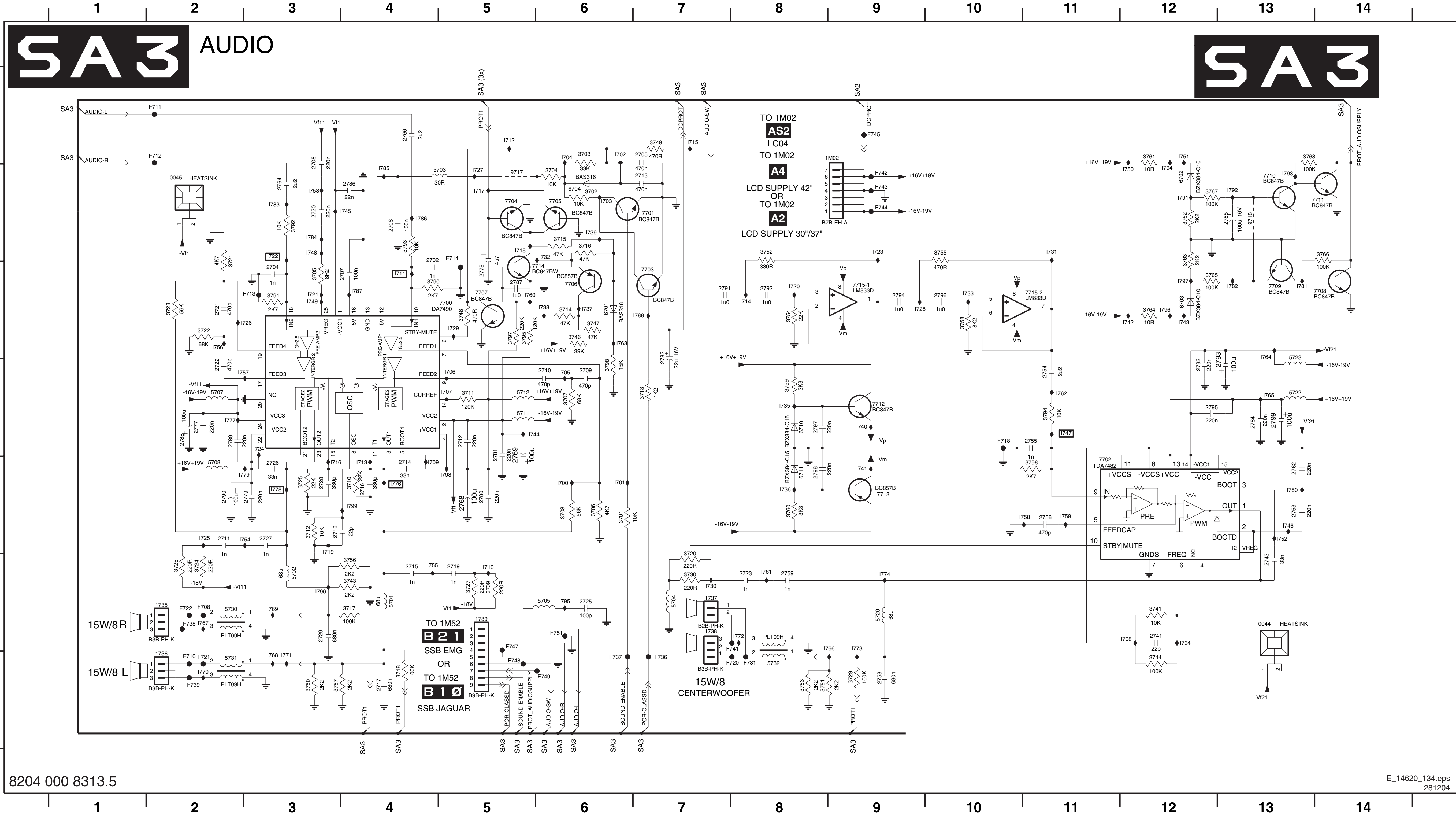
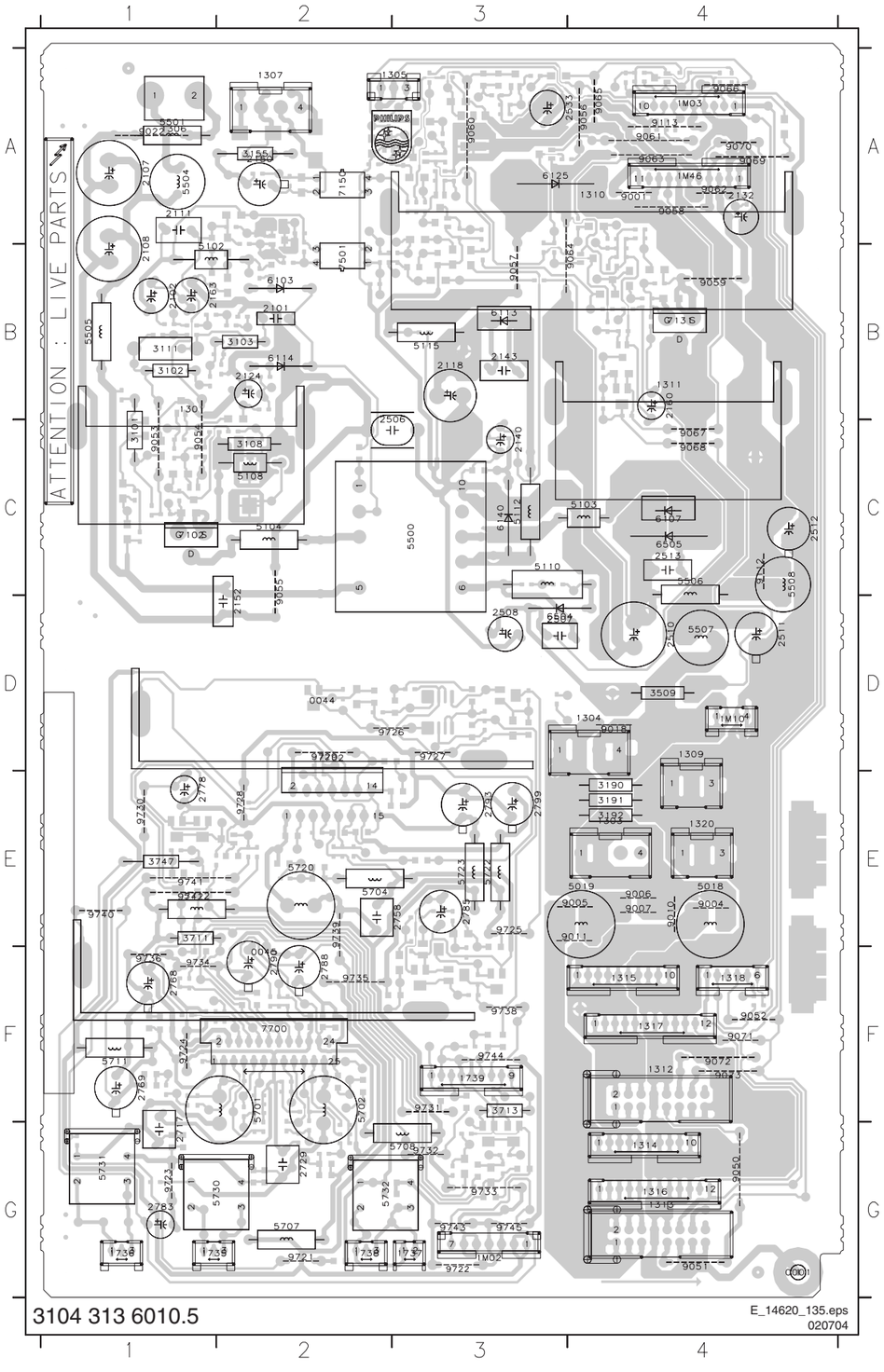
1736 G2	2708 A3	2718 E3	2729 F3	2764 B3	2783 C7	2793 D13	3704 B6	3714 C6	3725 E3
1737 F7	2709 D6	2719 F5	2741 F12	2766 A4	2784 D13	2794 C9	3705 C3	3715 B6	3726 F2
1738 F7	2710 D6	2720 B3	2743 F13	2768 E5	2785 B13	2795 D12	3706 E6	3716 B6	3727 F5
1739 F5	2711 E2	2721 C2	2753 E13	2769 D5	2786 B4	2796 C10	3707 D6	3717 F4	3729 G9
1M02 A9	2712 D5	2722 D2	2754 D11	2777 D2	2787 C5	2797 D8	3708 E6	3718 G4	3730 F7
2702 C4	2713 B7	2723 F8	2755 D11	2778 C5	2788 D2	2798 E8	3709 F5	3720 F7	3741 F12
2704 C3	2714 E4	2725 F6	2756 E11	2779 E3	2789 D2	2799 D13	3710 E4	3721 B2	3743 F4

3744 G12	3755 B10	3765 C12	3796 E11	5711 D5	6703 C12	7706 C6	7715-2 C11	F720 G8	F743 B9
3746 C6	3756 F4	3766 B14	3797 C5	5712 D5	6704 B6	7707 C5	9717 B5	F721 G2	F744 B9
3747 C6	3757 G3	3767 B12	3798 D6	5720 F9	6710 D8	7708 C13	9718 B13	F722 F2	F745 A9
3748 C5	3758 C10	3768 A13	5701 F4	5722 D13	6711 E8	7709 C13	F708 F2	F731 G8	F747 F5
3749 A7	3759 D8	3790 C4	5702 F3	5723 D13	7700 C5	7710 B13	F710 G2	F736 G7	F748 G5
3750 G3	3760 E8	3791 C3	5703 B5	5730 F2	7701 B7	7711 B13	F711 A2	F737 G6	F749 G6
3751 G8	3761 A12	3792 B3	5704 F7	5731 G2	7702 E11	7712 D9	F712 A2	F738 F2	F751 F6
3752 B8	3762 B12	3793 B4	5705 F6	5732 G8	7703 C7	7713 E9	F713 C3	F739 G2	I700 E6
3753 G8	3763 B12	3794 D11	5707 D2	6701 C6	7704 B5	7714 C5	F714 B5	F741 F8	I701 E6
3754 C8	3764 C12	3795 C5	5708 E2	6702 B12	7705 B6	7715-1 C9	F718 D10	F742 B9	I702 A6

I703 B6	I713 E4	I723 B9	I733 C10	I743 C12	I753 B3	I763 C6	I773 F9	I784 B3	I795 F6
I704 A6	I714 C8	I724 D3	I734 F12	I744 D5	I754 E3	I764 C13	I774 F9	I785 B4	I796 C12
I705 D6	I715 A7	I725 E2	I735 D8	I745 B4	I755 F4	I765 D13	I776 E4	I786 B4	I797 C12
I706 D5	I716 E3	I726 C3	I736 E8	I746 E13	I756 C2	I766 F9	I777 D2	I787 C4	I798 E5
I707 D5	I717 B5	I727 B5	I737 C6	I747 D11	I757 D2	I767 F2	I778 E3	I788 C7	I799 E4
I708 F12	I718 B5	I728 C9	I738 C6	I748 B3	I758 E11	I768 G3	I779 E3	I790 F3	
I709 E4	I719 E3	I729 C5	I739 B6	I749 C3	I759 E11	I769 F3	I780 E13	I791 B12	
I710 F5	I720 C8	I730 F7	I740 D9	I750 B12	I760 C5	I770 G2	I781 C13	I792 B13	
I711 C4	I721 C3	I731 B11	I741 E9	I751 A12	I761 F8	I771 G3	I782 C13	I793 B13	
I712 A5	I722 B3	I732 B6	I742 C12	I752 E13	I762 D11	I772 F8	I783 B3	I794 B12	



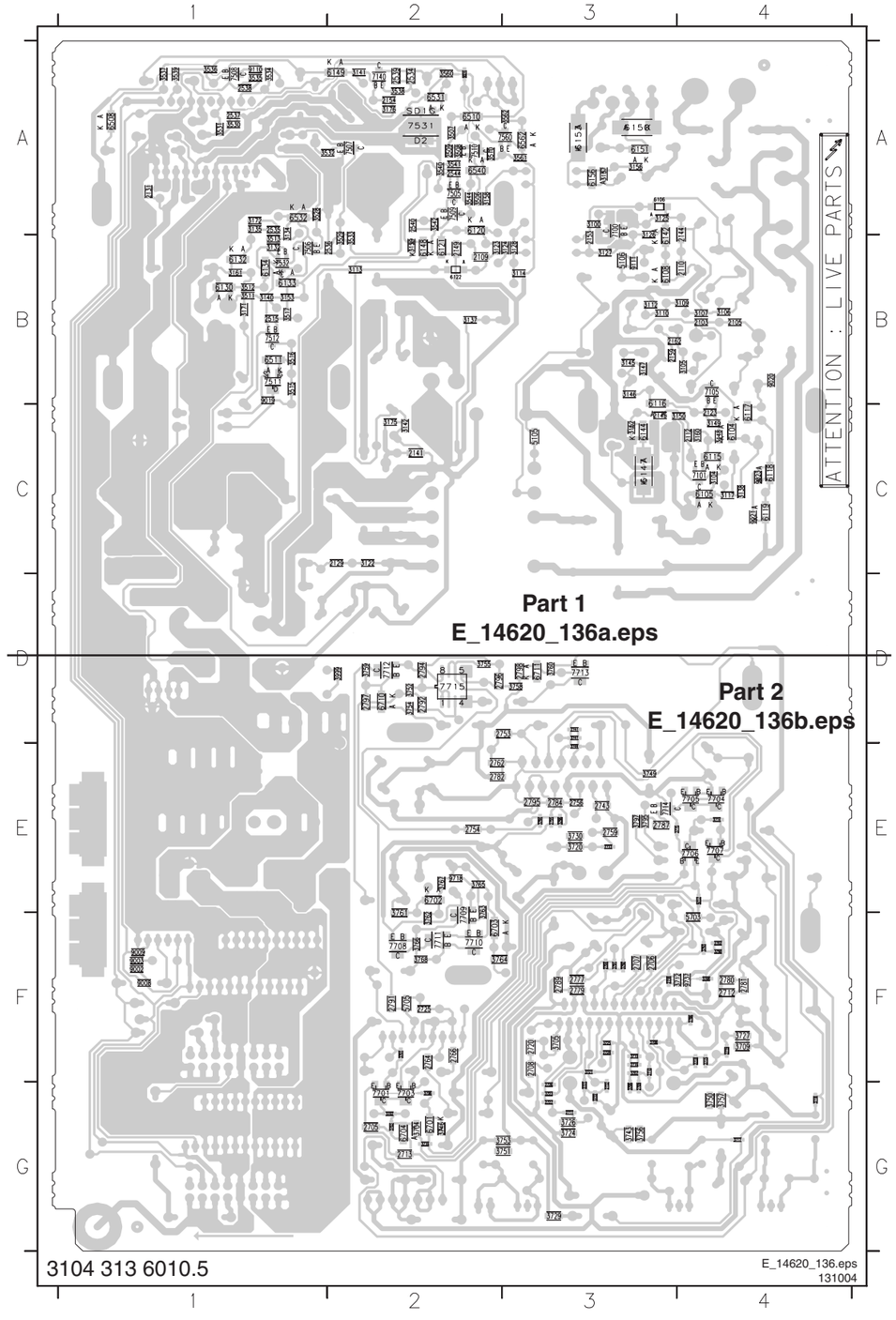
Layout LCD Standby Audio Panel (Top Side)



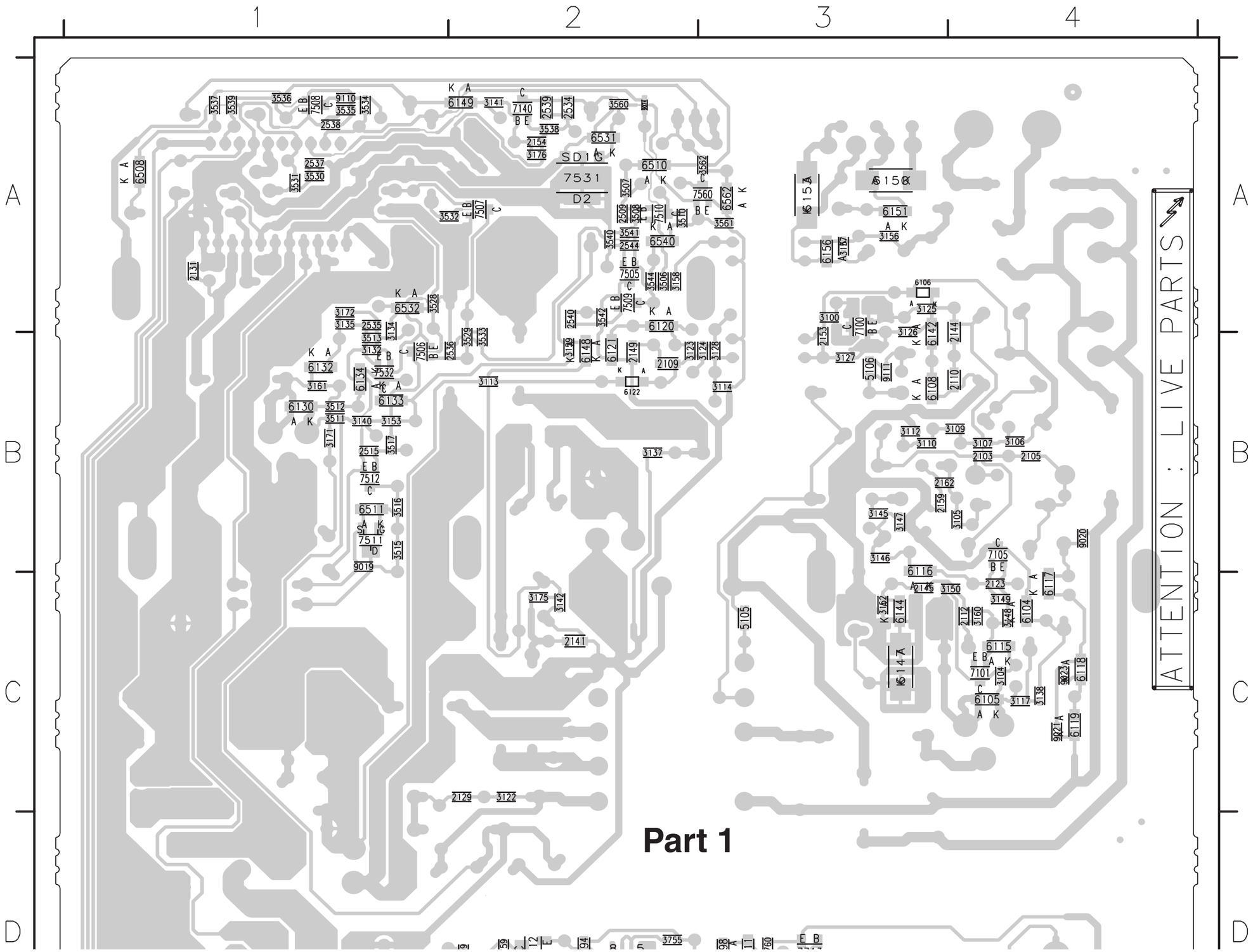
0001 G4 5507 D4
0044 D1 5508 C4
0045 E1 5701 F2
1301 B1 5702 F2
1303 E4 5704 E2
1304 D4 5707 G2
1305 A3 5708 G3
1306 A1 5711 F1
1307 A2 5712 E1
1309 D4 5720 E2
1310 A3 5722 E3
1311 B4 5723 E3
1312 F4 5730 G2
1313 G4 5731 G1
1314 G4 5732 G3
1315 F4 6103 B2
1316 G4 6107 C4
1317 F4 6113 B3
1318 F4 6114 B2
1320 E4 6125 A3
1735 G1 6140 C3
1736 G1 6504 D3
1737 G3 6505 C4
1738 G2 7102 C1
1739 F3 7131 B4
1M02 G3 7150 A2
1M03 A4 7501 B2
1M10 D4 7700 F2
1M46 A4 7702 E3
2101 B2 9001 A4
2102 B1 9004 E4
2107 A1 9005 E4
2108 A1 9006 E4
2111 A1 9007 E4
2118 B3 9010 E4
2124 B2 9011 E4
2132 A4 9018 D4
2140 C3 9022 A1
2143 B3 9050 G4
2150 A2 9051 G4
2152 D2 9052 F4
2160 B4 9053 B1
2163 B1 9054 B1
2506 B2 9055 C2
2507 D3 9056 A4
2508 D3 9057 A3
2510 D4 9058 A4
2511 D4 9059 B4
2512 C4 9060 A3
2513 C4 9061 A4
2533 A4 9062 A4
2717 F1 9063 A4
2729 G2 9064 A3
2758 E3 9065 A4
2768 F1 9066 A4
2769 F1 9067 C4
2778 E1 9068 C4
2783 G1 9069 A4
2785 E3 9070 A4
2788 F2 9071 F4
2790 E2 9072 F4
2793 E3 9073 F4
2799 E3 9112 C4
3101 B1 9113 A4
3102 B1 9721 G2
3103 B2 9722 G3
3108 C2 9723 G1
3111 B1 9724 F1
3155 A2 9725 E3
3190 E3 9726 D2
3191 E3 9727 D3
3192 E3 9728 E2
3509 D4 9729 D2
3711 F1 9730 E1
3713 F3 9731 F3
3747 E1 9732 G3
5018 E4 9733 G3
5019 E4 9734 F1
5102 B2 9735 F3
5103 C4 9736 F1
5104 C2 9738 F3
5108 C1 9739 F2
5110 C3 9740 E1
5112 C3 9741 E1
5115 B3 9742 E1
5500 C3 9743 G3
5501 A1 9744 F3
5504 A1 9745 G3
5505 B1
5506 C4

Layout LCD Standby Audio Panel (Overview Bottom Side)

2103 B4 2149 B2 2538 A1 2710 F3 2722 G3 2756 E3 2786 F4 3104 C4 3123 B2 3140 B1 3155 A3 3190 E1 3515 B1 3536 A1 3701 F2 3712 F4 3724 G3 7704 E4
2105 B4 2153 B3 2539 A2 2711 G3 2723 E3 2759 E3 2787 E3 3105 B4 3124 B3 3141 A2 3156 A3 3191 E1 3516 B1 3537 A1 3702 G2 3713 F2 3725 F3 7705 E4
2109 B2 2154 A2 2540 A2 2712 F4 2725 F2 2762 E2 2789 F3 3106 B4 3125 A3 3142 C2 3157 A3 3192 E1 3517 B1 3538 A2 3703 G2 3714 E4 3726 G3 7706 E3
2110 B4 2159 B3 2544 A2 2713 G2 2726 G3 2764 F2 2791 F2 3107 B4 3126 A3 3145 B3 3158 A2 3506 A2 3528 A1 3539 A1 3704 G2 3715 E3 3727 F4 7707 E4
2112 C4 2162 B3 2702 F4 2714 F4 2727 G3 2766 F2 2792 D2 3109 B4 3127 B3 3146 B3 3159 B2 3507 A2 3529 B2 3540 A2 3705 F3 3716 G2 3729 G3 7708 F2
2123 C4 2509 A2 2704 F3 2715 F4 2728 F3 2777 F3 2794 D2 3110 B3 3128 B3 3147 B3 3160 C4 3508 A2 3530 A1 3541 A2 3706 G3 3717 G4 3730 E3 7709 F2
2129 C2 2515 B1 2705 G2 2716 F3 2741 D3 2779 F3 2795 E3 3112 B3 3132 B1 3148 C4 3161 B1 3509 D1 3531 A1 3542 A2 3707 F3 3718 G4 3741 D3 7710 F2
2131 A1 2534 A2 2706 F3 2718 F3 2743 E3 2780 F4 2796 D2 3113 B2 3134 A1 3149 C4 3171 B1 3510 A2 3532 A2 3544 A2 3708 F3 3720 E3 3743 G3 7711 F2
2141 C2 2535 A1 2707 F3 2719 F4 2753 D3 2781 F4 2797 D2 3114 B3 3135 A1 3150 C4 3172 A1 3511 B1 3533 B2 3560 A2 3709 F4 3721 F3 3744 E3 7712 D2
2144 A4 2536 B2 2708 F3 2720 F3 2754 E2 2782 E2 2798 D3 3117 C4 3137 B2 3152 C3 3175 C2 3512 B1 3534 A1 3561 A3 3710 F3 3722 G3 3746 G2 7713 D3
2145 C3 2537 A1 2709 G3 2721 G3 2755 E3 2784 E3 3100 A3 3122 C2 3138 C4 3153 B1 3176 A2 3513 B1 3535 A1 3562 A3 3711 E4 3723 G3 3747 E4 7714 E3
3748 F4 7715 D2
3749 E3 9002 F1
3750 G4 9003 F1
3751 G3 9008 F1
3752 D2 9009 F1
3753 G3 9019 B1
3754 D2 9020 B4
3755 D2 9021 C4
3756 G3 9023 C4
3757 G4 9074 A2
3758 D3 9110 A1
3759 D2 9111 B3
3760 D3 9717 E4
3761 F2 9718 E2
3762 F2 9737 F4
3763 E2
3764 F2
3765 E2
3766 F2
3767 E2
3768 F2
3790 F4
3791 F3
3792 F3
3793 F4
3794 E3
3795 E3
3796 E3
3797 E3
3798 G2
3999 D2
5105 C3
5106 B3
5703 F4
5705 F2
6104 C4
6105 C4
6106 A3
6108 B3
6115 C4
6116 B3
6117 B4
6118 C4
6119 C4
6120 A2
6121 B2
6122 B2
6130 B1
6132 B1
6133 B1
6134 B1
6142 B3
6144 C3
6147 C3
6148 B2
6149 A2
6150 A3
6151 A3
6153 A3
6156 A3
6508 A1
6510 A2
6511 B1
6531 A2
6532 A1
6540 A2
6562 A3
6701 G2
6702 E2
6703 F3
6704 G2
6710 D2
6711 D3
7100 A3
7101 C4
7105 B4
7140 A2
7505 A2
7506 B1
7507 A2
7508 A1
7509 A2
7510 A2
7511 B1
7512 B1
7531 A2
7532 B1
7560 A3
7701 G2
7703 G2



Layout LCD Standby Audio Panel (Part 1 Bottom Side)



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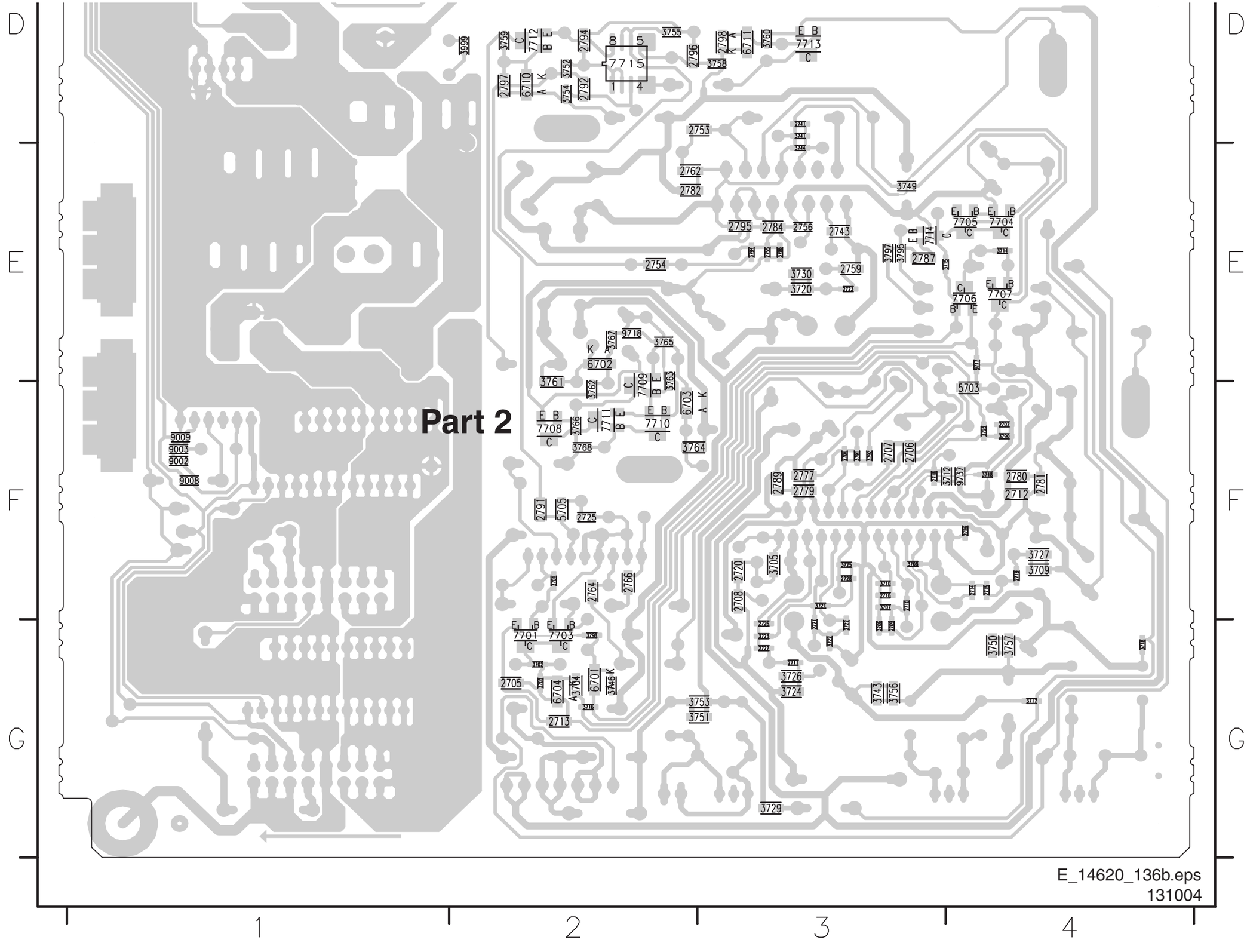
131004

Layout LCD Standby Audio Panel (Part 2 Bottom Side)



8. Alignments

Index of this chapter:

Note: 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

8.1.1 Start 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 chassis ground (with the exception of the voltages on the primary side of the power supply).
  Caution: never use heatsinks as ground.
- Test probe: Ri > 10 Mohm, Ci < 20 pF.
- Use an isolated trimmer/screwdriver to perform alignments.

8.1.2 Initial Settings

Perform all electrical adjustments with the following initial settings (via the "Active Control" button on the RC):
1. To avoid the working of the lightsensor, set "Active Control" to "Off".
2. Set "Smart Picture" to "Natural".
3. Set "Active Display" to "Off"

8.1.3 Alignment Sequence

- First, set the correct options:
  - In SAM, select SERVICE OPTIONS -> OPT. NO,
  - Fill in the option settings according to the set sticker (see also paragraph "Option Settings"),
  - Select STORE OPTIONS and push "OK" on the remote control,
  - After storing, the set must be restarted!
- Warming up (>10 minutes).
- White-D alignment.

8.2 Hardware Alignments

8.2.1 12 or 24 V Backlight Voltage Alignment

Switch the set "on" and measure the voltage between pin 1 of connector 1304 and pin 1 of connector 1309 (ground). Align potmeter R3026 until this voltage is:
- 12 V_{DC} +/- 0.1 V (for Sharp displays).
- 24 V_{DC} +/- 0.1 V (for LG.Philips displays).

Caution: This voltage must be aligned very precisely: when it is too high (> 27 V), it can destroy the inverters. When it is too low (< 23 V) the backlight will not start up.

Note: The 42" models have a double PSU, therefore an extra potmeter must be aligned: measure the voltage between pin 1 of connector 1303 and pin 1 of connector 1320 (ground). Align R3U26 until this voltage is 24 V_{DC} +/- 0.1 V.

8.3 Software Alignments

Put the set in SAM mode (see the "Service Modes, Error Codes and Fault Finding" section). The SAM menu will now appear on the screen. Select ALIGNMENTS and go to one of the sub menus. The alignments are explained below.

Notes:
- All changes must be stored manually.
- If an empty EAROM (permanent memory) is detected, all settings are set to pre-programmed default values.

8.3.1 General

For the next alignments, supply the following test signals via a video generator to the RF input:
- **EU/AP-PAL** models: a PAL B/G TV-signal with a signal strength of at least 1 mV and a frequency of 475.25 MHz
- **US/AP-NTSC** models: an NTSC M/N TV-signal with a signal strength of at least 1 mV and a frequency of 61.25 MHz (channel 3).
- **LATAM** models: an NTSC M or PAL M TV-signal with a signal strength of at least 1 mV and a frequency of 61.25 MHz (channel 3).

Luma Gain
Fixed setting of "1".

Delta Luma Gain for Aux (only when a 2nd Tuner is present)
Fixed setting of "0 dB".

IF AFC
Alignment procedure:
1. During the IF AFC-parameter adjustment, one can see OSD feedback on the screen.
2. The OSD feedback can give 4 kinds of messages:
3. The first item ("IN/OUT") informs you whether you are in or out of the AFC-window.
4. The second item ("HIGH/LOW") informs you whether the AFC-frequency is too high or too low.

Table 8-1 AFC

AFC-window	AFC-frequency vs. reference
Out	High
In	High
[In]	[Low]
Out	Low

1. Adjust the IF AFC parameter until the **first** value is within the AFC window (= IN).
2. Next, adjust the IF AFC parameter until the **second** value is LOW.

IF LPRIME AFC (only for EU sets)
Same procedure as described above, but with SECAM L/L' signal source.

TUNER AGC
Measure the DC voltage on pin 1 of the (main) Tuner. You can adjust this voltage by adjusting the TUNER AGC item in the

SAM menu. Alignment is correct when the DC voltage is just below 3.5 V.

IF AFC Tuner 2
Use the same procedure as described above (under IF AFC) with the set switched to the DW source.

IF LPRIME AFC Tuner 2
Use the same procedure as described above (under IF LPRIME AFC) with the set switched to the DW source.

Tuner AGC Tuner 2
Use the same procedure as described above (under TUNER AGC) with the set switched to the DW source. Measure on pin 1 of the DW Tuner.

Blend Intensity
Use this alignment when you replace the microcontroller, NVM, or the EBILD. It aligns the level of transparency of the menu-picture blended into the main-picture. Fixed setting of "16".

8.3.2 2fh ADC Alignment

Only necessary to align, when the A/D convertor or NVM is replaced. Use the default values as mentioned in the table.

Table 8-2 "2fH ADC alignment"

Menu item	Value
Red Gain RGB	106
Blue Gain RGB	112
Green Gain RGB	133
Red Offset RGB	40
Blue Offset RGB	41
Green Offset RGB	43
Red Gain YPbPr *	115
Blue Gain YPbPr *	118
Green Gain YPbPr *	102
Red Offset YPbPr *	59
Blue Offset YPbPr *	56
Green Offset YPbPr *	35
* = only for sets with YPbPr input	

8.3.3 White D Alignment

- Set ACTIVE CONTROL to "Off".
- In the TV -> PICTURE user menu set:
  - DYNAMIC CONTRAST to "Off".
  - COLOUR ENHANCEMENT to "Off".
  - COLOUR to "0".
  - CONTRAST to "100".
  - BRIGHTNESS to "43".
- Go to the SAM and select ALIGNMENTS -> WHITE POINT.

Method 1 (with colour analyser):
- Use a 100% white screen as input signal and set the following values:
  - COLOR TEMPERATURE: "Tint to be aligned".
  - WHITEPOINTRED: "127".
  - WHITEPOINTGREEN: "127".
  - WHITEPOINTBLUE: "127".
  - RED BL OFFSET: "7"
  - GREEN BL OFFSET: "7".
- Measure with a calibrated (phosphor- independent) colour analyser in the centre of the screen. Use a contactless analyser (e.g. Minolta CA-210) to align an LCD TV. The colour analyser may not touch the screen surface. Consequently, the measurement needs to be done in a dark environment.
  Note: The colour analyser needs to be calibrated for LCD!
- Adjust, by means of decreasing the value of one or two whitepoints, the correct x,y coordinates (see table "White D alignment values"). Tolerance: dx,dy: ± 0.004.
- Repeat this step for the other Colour Temperatures that need to be aligned.
- When finished press "Store" to store the aligned values to the NVM.

Table 8-3 White D alignment values

Coordinates	Cool	Normal	Warm
X	0.276	0.287	0.314
Y	0.281	0.292	0.320

Method 2 (without colour analyser):
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).
1. Select a COLOUR TEMPERATURE (e.g. COOL, NORMAL, or WARM).
2. Set the RED, GREEN and BLUE default values according to the values in the "Tint settings" table.
3. When finished press "Store" to store the aligned values to the NVM.

Table 8-4 Tint settings

	Cool			Normal			Warm		
	32"	37"	42"	32"	37"	42"	32"	37"	42"
R	127	125	126	127	127	127	127	127	127
G	126	127	122	123	127	120	116	121	114
B	112	125	127	104	118	116	86	101	98

8.3.4 Lum. Del.

With this Luminance Delay alignment, you place the luminance information exactly on the chrominance information (brightness is pushed onto the colour). Use a colour bar / grey scale pattern as test signal.
- **LUM. DELAY PAL BG:** Apply a PAL BG colour bar / grey scale pattern as a test signal. Adjust this parameter until the transients of the colour part and black and white part of the test pattern are at the same position.
  Default value is "**7**".
- **LUM. DELAY PAL I:** Apply a PAL I colour bar/grey scale pattern as a test signal. Adjust this parameter until the transients of the colour part and black and white part of the test pattern are at the same position.
  Default value is "**9**".
- **LUM. DELAY SECAM:** Apply a SECAM colour bar/grey scale pattern as a test signal. Adjust this parameter until the transients of the colour part and black and white part of the test pattern are at the same position.
  Default value is "**9**".
- **LUM. DELAY BYPASS:** apply a NTSC colour bar/ greyscale pattern as a test signal. Adjust this value until the transients of the colour and black and white part of the test area are at the same position.
  Default value is "**6**".

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 is only active after the TV is switched "off" and "on" again with the Mains switch (the EAROM is then read again).

8.4.2 Dealer Options

Table 8-5 Dealer option overview

Menu name	Subjects	Options	Description
Personal Options	Picture Mute	Yes	Picture (blue) mute active in case no picture detected
		No	Noise in case of no picture detected
	Virgin Mode	Yes	TV starts up (once) with language selection menu after mains switch "on" for the first time (virgin mode)
		No	TV does not starts up (once) with language selection menu after mains switch "on" for the first time (virgin mode)
	Auto Store Mode (only for EU and AP-PAL/M sets)	None	Autostore mode disabled (not in installation menu)
		PDC-VPS	Autostore mode via ATS (PDC/VPS) enabled
		TXT page	Autostore mode via ACI enabled
		PDC-VPS-TXT	Autostore mode via ACI or ATS enabled
	TXT Preference (only for EU and AP-PAL sets)	TOP	Preference to TOP Teletext
		FLOF	Preference to FLOF Teletext
	DVD door lock (only for sets with integrated DVD)	Yes	To disable the DVD tray opening function
		No	To enable the DVD tray opening function
	AmbiLight Demo (only when Ambi Light option is “on”)	Yes	Activation of AmbiLight demo via local "MENU" button possible
		No	Activation of AmbiLight demo via local "MENU" button not possible

8.4.3 SERVICE OPTIONS

Select the sub menu's to set the initialisation codes (options) of the set via text menus.

Table 8-6 Service option overview

Menu-item	Subjects	Options	Description
Dual Screen	PIP/Dual Screen	Yes / No	Feature present / not present
	Text/EPG	Yes / No	Feature present / not present
	DS/PIP Tuner	Yes / No	Feature present / not present (only selectable if PIP/Dual Screen option is "on")
Teletext	Flash RAM	Yes / No	Flash RAM present / not present
	NexTView type	None	Feature not present
		Textguide only	Feature present, but only as text guide
		Nextview 2c3	Feature present, for countries that support NexTView
Display	Screen	Value "000"	42 inch PDP SDI
		Value "001"	50 inch PDP SDI
		Value "002"	42 inch PDP FHP
		Value "003"	30 inch LCD LPL
		Value "004"	37 inch LCD LPL
		Value "005"	42 inch LCD LPL
		Value "006"	32 inch LCD Sharp
		Value "007"	42 inch PDP SDI VGA
		Value "008"	37 inch PDP FHP

Menu-item	Subjects	Options	Description
Video Repro	Featurebox type	1050i/1250i	HD input
		Eagle 1B	"Eagle version 1B" present (Pixel Plus 1)
		Eagle 1C	"Eagle version 1C" present (Pixel Plus 2)
	Lightsensor	Yes / No	Feature present / not present
	3D Combfilter	Yes / No	Only selectable when Columbus is present
	Improved Noise Reduction	Yes / No	Only selectable when Columbus is present
	PixelPlus Version	1	Standard PP: only selectable with Eagle 1C
		2	Improved PP: only selectable with Eagle 1C
	720p	Yes / No	Enable for high resolution displays
Source Selection	EXT3 1Fh (2003)	Yes / No	Not selectable
Audio Repro	Acoustic System	FTV Top	Cabinet design (xxPF9986 and xxPF9996 with NXT). See styling 499 in Product Survey.
		Soft Wrap	Cabinet design (xxPF9956 and xxPF9966 standard). See styling 496 in Product Survey.
		Wrap	Cabinet design (xxPF9956 and xxPF9966 standard). See styling 500 in Product Survey.
		FTV2.3	Cabinet design (for future)
	AVL	Yes / No	Enable / disable Automatic Volume Limiter
Miscellaneous	Home Cinema	Yes / No	Model with / without Home Cinema Link (EU only)
	AmbiLight	Yes / No	Rear lighting feature present / not present
	Integrated RC	Yes / No	Control pheripheral equipment via TV IR receiver (EU only)
	Tuner type	UV1316 / TEDE9	Model with Philips tuner / Alps tuner
	P50 DVD menu line	Yes / No	Enable / disable DVD control via user menu with TV RC (EU only)
	Hotel Mode	Yes / No	Enable / disable Hotel Mode
	Intelligent Lights	Yes / No	Proximity sensor present / not present
Option no.	Group 1		Group 1 option code overview (see set sticker)
	Group 2		Group 2 option code overview (see set sticker)

8.4.4 OPT. NO. (Option numbers)

Select this sub menu to set all options at once (expressed in two long strings of numbers).

Table 8-7 Option number overview (indication only, use sticker inside set as reference)

Model Number	12 NC	Options Group 1	Options Group 2
32PF9976/12 (with Sharp LCD)	8670 000 21855	46436 40992 49472 04096	04118 01537 16448 49601
32PF9976/12 (with LPL LCD)	8670 000 21855	46436 40992 49472 04096	04118 01025 16448 00449
32PF9986/12 (with Sharp LCD)	8670 000 20663	62948 40992 49488 04097	04118 01537 16480 49632
32PF9986/12 (with LPL LCD)	8670 000 20663	62948 40992 49488 04097	04118 01025 16480 00480
37PF9986/12	8670 000 20667	62948 40992 49488 04097	04118 01025 16480 03040
42PF9986/12	8670 000 20669	62948 40992 49488 04097	04118 01281 16480 03296

An option number (or "option byte") represents a number of different options. When you change these numbers directly, you can set all options very quickly. All options are controlled via eight option numbers.
When the EAROM is replaced, all options will require resetting. To be certain that the factory settings are reproduced exactly, you must set both option number lines.
Note: You can find the correct option numbers on a sticker inside the TV set.

Example: The options sticker gives the following option numbers:
- 62948 40992 49488 04097
- 04118 01537 16480 49632

The first line (group 1) indicates options 1 to 4, the second line (group 2) options 5 to 8.
Every 5-digit number represents 16 bits (so the maximum value will be 65536 if all options are set).
When all the correct options are set, the sum of the decimal values of each Option Byte (OB) will give the option number.

Note: As the info was not up-to-date at the time of writing, the option number explanation is not given in this manual. As soon it becomes available, a Service Info or update manual will be send via the appropriate channels

Table 8-8 Option overview

Byte	Bit (dec. value)	Subject	Options	Settings (in decimal values)	Remarks
1	0 (1)	Video Repro	Feauture Box Type	3= Eagle 1B, 4= Eagle 1C, 5= 1050i/1250i	
	1 (2)				
	2 (4)				
	3 (8)	Personal	Ambi Light Demo	0= Off, 8= On	
	4 (16)	Video Repro	Auto Scavem	0= No, 16= Yes	Only selectable for CRT sets.
	5 (32)		Improv. Noise Reduction	0= No, 32= Yes	Fixed to "Yes" in case Columbus is present
	6 (64)		Light Sensor	0= No, 64= Yes	
	7 (128)	Miscellaneous	Ambi Light	0= No, 128= Yes	
	8 (256)	Video Repro	Digital Option	0 (No)= Dig. Natural Motion (for PP1) or PixelPlus (for PP2), 256 (Yes)= PixelPlus (for PP1) or PixelPlus2 (for PP2)	This depends on the "Pixel Plus Version" option (see also Byte 1 - bit 14), and gives the info that is visible in the user menu.
	9 (512)		n.a.		
	10 (1024)	Source Selection	1152i	0= Off, 1024= On	
	11 (2048)	Video Repro	n.a.		
	12 (4096)		Signalling Bits	0= No, 4096= Yes	Fixed to: "Yes" in EU and AP-P, "No" for other versions.
	13 (8192)		3D Comb Filter	0= No (2D Comb), 8192= Yes (3D Comb)	
	14 (16384)		PP (Pixel Plus) Version	0= “1”, 16384= “2”	Only selectable when "Feature Box" option is "Eagle 1C". See also Byte 1- bit 8 "Digital Option".
	15 (32768)		720p	0= No, 32768= Yes	
2	0 (1)	Audio Repro	n.a.		
	1 (2)		Dolby Pro Logic	0= No, 2= Yes	
	2 (4)		Virtual Rear Speakers	0= No, 4= Yes	Fixed to: "Yes" for sets with Dolby Pro Logic.
	3 (8)		Cordless Rear Speakers	0= No, 8= Yes	Fixed to: "No" for all versions, except for EU.
	4 (16)		Dolby Digital	0= No, 16= Yes	When Dolby Digital is "Yes", the AVL (Byte 8 - bit 6) option must be "No".
	5 (32)		Virtual Dolby	0= No, 32= Yes	Fixed to: "No" in case the "Dolby Pro Logic" option (Byte 2 - Bit 1) unequals "none".
	6 (64)		Subwoofer	0= No Subwoofer present, 64= Subwoofer present.	
	7 (128)				
	8 (256)	Chassis/Region	Chassis	0= EM6, 256= EM5, 512 = EM3	FTx2.x= EM6
	9 (512)				
	10 (1024)				
	11 (2048)				
	12 (4096)	Teletext	n.a.		
	13 (8192)		Flash RAM	0= No, 8192= Yes	NexTView type 2C3 and 2 need a Flash RAM.
	14 (16384)		NexTView type	0= None, 16384= Textguide only, 32768= NexTView 2C3, 49152= NexTView 2	Only available for EU.
	15 (32768)				
3	0 (1)	n.a.	n.a.		
	1 (2)	n.a.	n.a.		
	2 (4)	n.a.	n.a.		
	3 (8)	n.a.	n.a.		
	4 (16)	Dual Screen	PIP/Dual Screen	0= No, 16= Yes	
	5 (32)		n.a.		
	6 (64)		TXT/EPG Dual Screen	0= No, 64= Yes.	Fixed to: "Off" for AP-N, US, and LA versions.
	7 (128)		n.a.		
	8 (256)	Display	CRT type (Aspect Ratio)	0= 4:3, 256= 16:9	
	9 (512)		Picture Rotation	0= No, 512= Yes	Only selectable for CRT sets.
	10 (1024)		Monitor	0= No, 1024= Yes	Reserved for Flat TV monitor.
	11 (2048)	Miscellaneous	Integrated Radio	0= No, 2048= Yes	
	12 (4096)		Stand Alone	0= No, 4096= Yes	Reserved for Flat TV monitor.
	13 (8192)		Integrated DVD	0= No, 8192= Yes	
	14 (16384)		Home Cinema	0= No, 16384= Yes	Fixed to: "No" in all versions except for EU.
	15 (32768)		Integraded RC	0= No, 32768= Yes	Fixed to: "No" in all versions except for EU.
4	0 (1)	Dual Screen	DS/PIP (Aux) Tuner	0= Aux Tuner not present, 1= Aux Tuner present	Only selectable in the EU version, provided the "PIP/Dual Screen" option is "Yes".
	1 (2)		DS/PIP (Aux) Tuner Type	0= UV1316, 2= TEDE9	
	2 (4)	Miscellaneous	38.0 (or China) IF	0= No, 4= Yes	Fixed to: "No" in all versions except for AP-P.
	3 (8)		Tuner Type	0= UV1316, 8= TEDE9	
	4 (16)	Teletext	n.a.		
	5 (32)		n.a.		
	6 (64)		n.a.		
	7 (128)		n.a.		
	8 (256)	Miscellaneous	Integrated Dig. Module	0= No, 256= Yes	
	9 (512)		Integrated HDD	0= No, 512= Yes	
	10 (1024)		n.a.		
	11 (2048)		n.a.		
	12 (4096)		Anti Aging	0= No, 4096= Yes	Fixed to: "Yes" for FTV.
	13 (8192)	Personal	DVD Door Lock	0= No, 8192= Yes	
	14 (16384)		n.a.		
	15 (32768)		n.a.		

Byte	Bit (dec. value)	Subject	Options	Settings (in decimal values)	Remarks
5	0 (1)	Personal	n.a.		
	1 (2)		Auto Store Mode	0= None, 2= PDC/VPS, 4= TXT Page, 6= PDC/VPS/TXT Page	Fixed to: "None" in the AP-N and US versions.
	2 (4)				
	3 (8)		2CS Korea	0= BTSC, 8= Korean Stereo	As the MSP can not automatically detect if Korean stereo (2CS) or BTSC is transmitted, this option is needed to tell the MSP what detection should be done.
	4 (16)		Blue (or Picture) Mute	0= No, 16 = Yes	
	5 (32)		n.a.		
	6 (64)		Virgin Mode	0= No, 64= Yes	
	7 (128)	Miscellaneous	Hotel Mode	0= No, 128= Yes	
	8 (256)	Personal	Flex TV Demo	0= No, 256= Yes	
	9 (512)		n.a.		
	10 (1024)		n.a.		
	11 (2048)		n.a.		
	12 (4096)		TXT Preference	0= Top, 4096= FLOF	Only available in the EU version.
	13 (8192)		n.a.		
	14 (16384)		n.a.		
	15 (32768)		n.a.		
6	0 (1)	Miscellaneous	P50 DVD Menu Line	0= No, 1= Yes	Fixed to: "No" in all versions except for EU.
	1 (2)		n.a.		
	2 (4)		n.a.		
	3 (8)		n.a.		
	4 (16)	Chassis/Region	Region	0= EU, 16= AP-P, 32= AP-N, 48= US, 64= Latam, 80= Australia	
	5 (32)				
	6 (64)				
	7 (128)				
	8 (256)	Display	Screen	"000" (0)= 42-inch PDP (SDI), "001" (256)= 50-inch PDP (SDI), "002" (512)= 42-inch PDP (FHP), "003" (768)= 30-inch LCD (LPL), , "004" (1024)= 37-inch LCD (LPL), "005" (1280)= 42-inch LCD (LPL), "006" (1536)= 32-inch LCD (Sharp), "007" (1792)= 42-inch PDP (SDI) VGA, "008" (2048)= 37-inch PDP (FHP).	Fixed to "0" in case of CRT.
	9 (512)				
	10 (1024)				
	11 (2048)				
	12 (4096)				
	13 (8192)				
	14 (16384)				
	15 (32768)				
7	0 (1)	Source Selection	EXT4 1fH	0= No, 1= Yes	
	1 (2)		EXT1 2fH	0= No, 2= Yes	
	2 (4)		n.a.		
	3 (8)		n.a.		
	4 (16)		n.a.		
	5 (32)		EXT3 1fH	0= No, 32= Yes	
	6 (64)		DVI/VGA	0= No, 64= Yes	
	7 (128)		HDMI (Europe)	0= No, 128= Yes	
	8 (256)		AV3 1fH	0= No, 256= Yes	
	9 (512)		AV1 2fH	0= No, 512= Yes	
	10 (1024)		AV2 2fH	0= No, 1024= Yes	
	11 (2048)		n.a.		
	12 (4096)		n.a.		
	13 (8192)		n.a.		
	14 (16384)		n.a.		
	15 (32768)		HDMI (Non Europe)	0= No, 32768= Yes	
8	0 (1)	Audio Repro	Acoustic System	0= FTV-Top (499), 1= Soft Wrap (496, 498), 2= Wrap (496, 498), 3= FTV2.3 (505), 4= FL9 Monitor (n.a.), 5= FL10 (n.a.), 6= FL11 or FL11-upgr. (380, 382, 406, 425, 426, 534), 7= FL12 (296, 305, 395, 408, 428, 444), 8= FL14 (n.a.), 9= PV02 (462), 10= FL13A (456), 11= Soft Design Line (336, 383), 12= Tech Design Line (419), 14= FL13B (456), 15= Others	Used for setting dynamic audio parameters. Between brackets the styling numbers are mentioned as listed in the quarterly Product Survey.
	1 (2)				
	2 (4)				
	3 (8)				
	4 (16)	Miscellaneous	n.a.		
	5 (32)		Intelligent Lights	0= No, 32= Yes	
	6 (64)	Audio Repro	AVL	0= No, 64= Yes	Switch to "No" when Dolby Digital is present.
	7 (128)	???	1080i Screen	0= 2fH path, 128= 3fH path	
	8 (256)	Display	CRT Size	0= 28", 256= 32", 512= 36" MEC, 768= 29", 1024= 34", 1280= 38", 1536= 28" Mk2, 1792= 36" PH, 2048= 32" MEC, 2304= 32" PH, 2560= 30", 2816= 37", 3072= 42", 3328= 50", 3840= Others	
	9 (512)				
	10 (1024)				
	11 (2048)				
	12 (4096)		Anti Moire Filter	0= No, 4096= Yes	Only for CRT
	13 (8192)		Display Type	0= LCD (LPL), 8192= PDP, 16384= CRT, 24576= LCoS, 32768= PTV, 40960= LCD (AUO), 49152= LCD (Sharp)	
	14 (16384)				
	15 (32768)				

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

Index of this chapter:

Note:

- Only **new** (not recently published) circuits are described here. For the other circuit descriptions, see a.o. the FTL13 and EM5.3 manuals.
- In the following text, the model year 2003 refers to the FTL13x chassis, while the model year 2004 refers to the new FTL2.x chassis.
- 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 and circuit diagrams. Where necessary, you will find a separate drawing for clarification.

9.1 Introduction

This chassis contains, compared to its predecessor, the following **new** features/components:

- **New Small Signal Board (SSB)** with lower height due to a.o. flat mounted tuners. This board is completely shielded (i.s.o. only the FBX).
- **FEM (Falconic Embedded Memories):** this is a new Falconic IC with internal Field memories and jagged line removal.
- **Improved 2D/3D Comb filter:** The new key components are Columbus and SDRAM. When SDRAM is used, a 3D comb filter (or temporal comb filtering) is possible. Without SDRAM, only 2D comb filtering (or spatial comb filtering) is possible. This is improved with respect to the previous 2D comb filter.
- **Improved noise reduction:** This is a second function of the Columbus and SDRAM. Noise reduction is possible without SDRAM (2D) and with SDRAM (3D).
- **Pixel Plus 2:** Eagle 1B is replaced by Eagle 1C.
  - Algorithms for Horizontal LTI and Vertical LTI are improved.
  - "Thin Line Control" as part of the sharpness control.
  - "Face Depending Peaking" should allow less sharpness in faces different from the rest of the picture. This could be used to anti age faces versus the rest of the picture.
  - "Vivid Colours 1" will result in more saturated colours.
  - The range/amount of "Blue Stretch" is extended.
  - More steps of "Green Enhancement".
  - Improved "Colour Dependent Sharpness".
  - Increased range of skin gain and skin tone.
- **Proximity sensor:** to detect a motion when the customer is approaching the set, and then to light up the LEDs on the set for 6 s (detection area is 1.5 - 2 m).
- **Improved/new AutoTV functions:** AutoTV 2004 has some new hardware configurations. Applying an LCD panel requires to have contrast reserve and backlight regulation. Applying a PDP panel requires to have contrast reserve as well (no backlight regulation). The Eagle 1C is detected automatically. Columbus improved noise reduction is used when the Columbus is present.
- **Ambient Light:** To be able to control lamps at the rear of the TV with respect to the measured ambient light level from the light sensor or the picture content, a control output from AutoTV has been foreseen.
- **DVI input** for Europe, **HDMI input** for NAFTA and AP.

The chassis consists of a full sized SSB, two Power Supply boards (one for the stand-by supply and one for the main supply), and some smaller PWBs for I/O and Control functions. The main functionalities are:

- **Stand-by Supply**: The Stand-by Supply is a new board that also includes the (class D) Audio Amplifier and the power supply interfacing to the LCD panel.
- **Main Supply**: LLC power supply, based on the one used in the plasma monitors (FMxx chassis). This supply (single sided) is built up very conventional, with hardly any surface mounted components on the copper side.
- **SSB**: Core TV functionalities, being TXT/control, video and audio decoding, feature box, video featuring, and sync/geometry control. The SSB is a high tech module (four layer, two sides reflow technology, full SMC) with very high component density and full shielding for EMC-reasons. Despite this, it is designed in such a way, that repair on component level is possible. To achieve this, attention was paid to:
  - Clearance around surface mounted ICs (for replacing).
  - Detailed diagnostics and fault finding is possible via ComPair.
  - Software upgrading (only for main software) is possible via ComPair.

On the next drawings, it is indicated where all the functional cells are located on the SSB (mind you that this is just an indication):

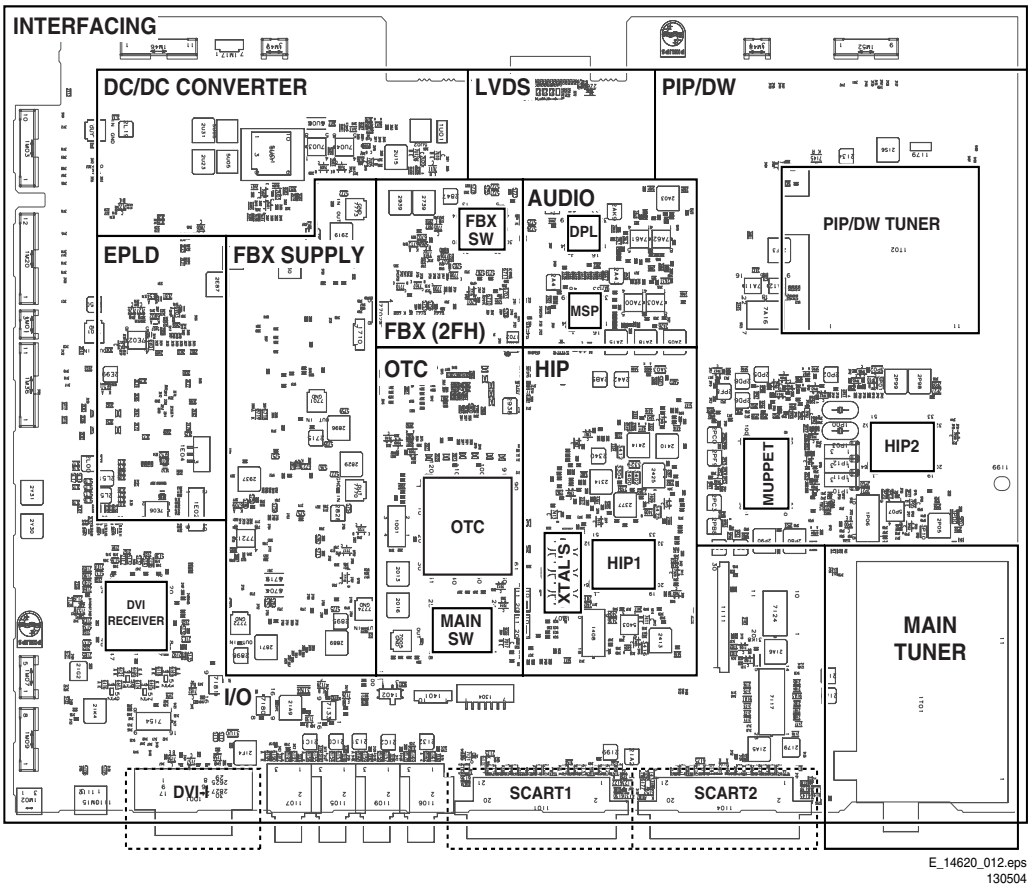


Figure 9-1 SSB top view

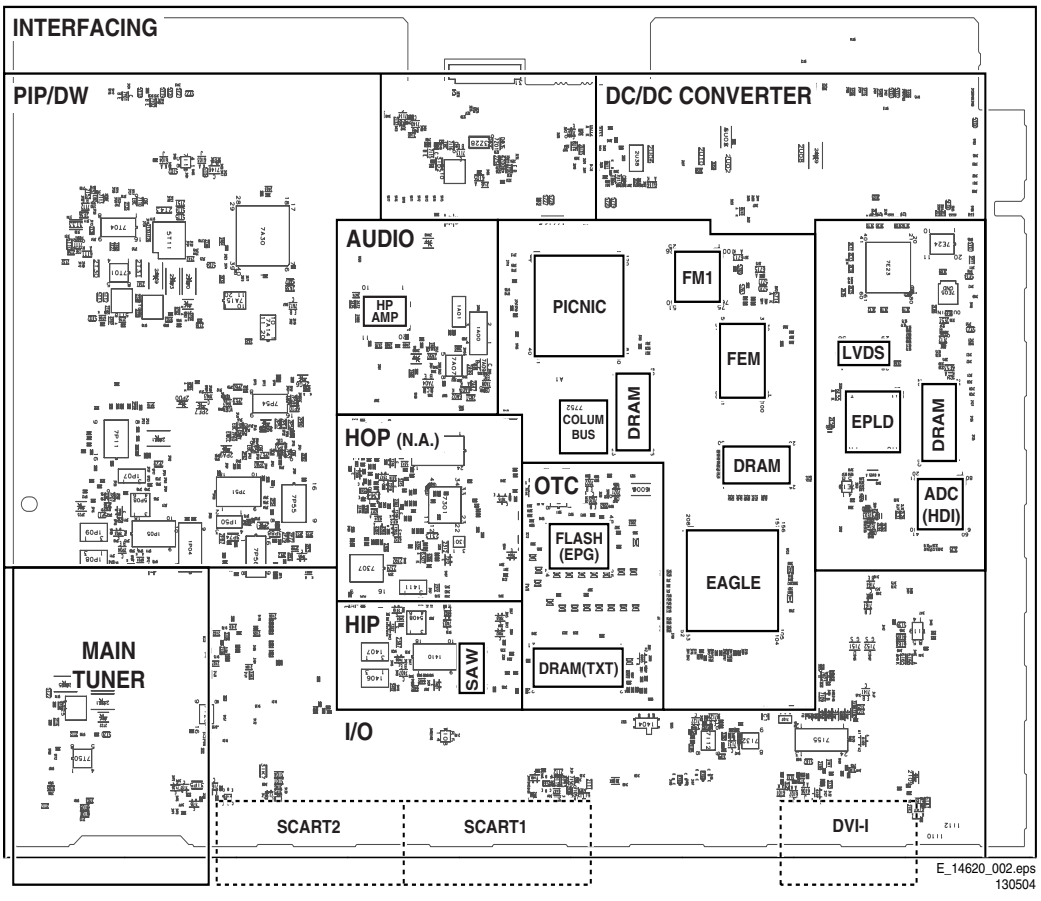


Figure 9-2 SSB bottom view

9.2 Power Supply LCD

9.2.1 General

Changes in 2004:
- All displays:
  - The sound supplies are +18V and -18V.
  - A loudspeaker DC protection is added (via TS7030 on the Main Supply).
  - A POK (Power OK) is generated when the 12V from the Aux supply is stabilised.
  - The STAND-BY supply is integrated in the Sound Amplifier panel.
- For **Sharp** displays (32") only:
  - 12V supply for the lamps i.s.o. 24V.
  - 12V to 5V DC/DC converter on SSB.

9.2.2 Block Diagram

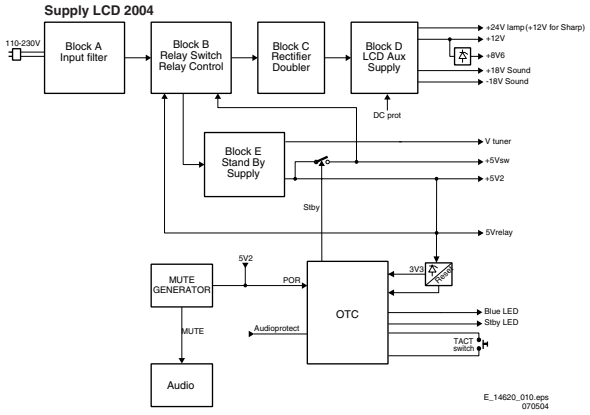


Figure 9-3 Block diagram LCD power supply

Main Supply (Block "D")

Diversity
- Mains input voltage diversity (1308):
  - EU: 198 - 264 V_{AC}.
  - US: 108 - 132 V_{AC} (doubler).
  - AP multi: 90 - 275 V_{AC} (auto doubler with AVS10 control IC and triac).
  - China: 160 - 270 V_{AC}.
- Mains filter diversity:
  - EU, China: 1 x mains filter + harmonic coil.
  - US, AP: 2 x mains filter + inrush current resistor.
- Screen size diversity:
  - One module for 30" to 37" sets.
  - Two (almost identical) modules on one PWB for 42" sets.

Specifications
- 12 V / 3 A on connector 1304 (for Ambient Light and to generate +8V6).
- 24 V / 5 A for LCD backlight on connector 1304 (for Sharp 12 V, 9 A).
- +18V, -18V sound on connector 1M02.
- +8V6 (derived from +12V from the Main Supply, switched "off" in Stand-by).
- Output voltage: over-voltage protection of resonant supply.
- Output current protection of resonant supply.
- Current protection at some safety fault conditions.

Stand-by mode

- The resonant supply is switched "off" via relay 1450 that is driven by the Stand-by Supply (via connector 1305).

Outputs

- 130-400 V_{DC} (full range) for Stand-by Supply (connector 1306).
- Mains over-voltage and safety protection for Stand-by Supply (connector 1307).

Inputs

- Relay drive voltage (for STAND-BY/ON mode) on connector 1305.
- DC_PROT signal to protect loudspeakers when there is a DC voltage across the loudspeakers (1M02).

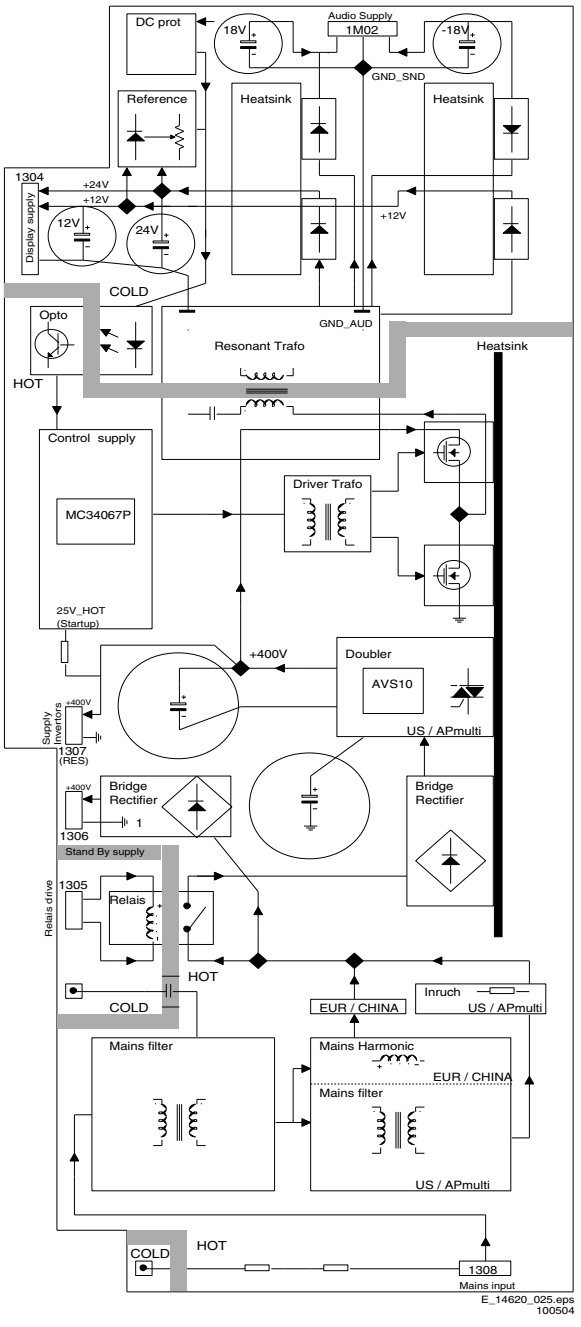


Figure 9-4 Functional diagram Main Supply (one module)

Stand-by Supply (Block "E")
The Stand-by Supply is based upon the "Fly Back Converter" principle. A description of this principle can be found in the FM2x Service Manuals.

Specifications
- Class D audio amplifier on same panel.
- Low profile.
- Full range (90 - 270 V_{AC}) and for all screen sizes (however NOT exchangeable due to component diversity).

Outputs
- +5V2.
- +5V_SW (switched "off" in Stand-by).
- V_TUN (Tuner voltage, switched "off" in Stand-by).

Inputs
- 130-400 V_{DC} from the Mains Filter panel (1306).
- STAND-BY_INFO from SSB (1M03).
- Over-voltage / safety protection from the Main Supply (1307 -> 6150/51/53 -> 7150 -> 7505/09 -> 7560).
  - Protection against over-voltage of the mains.
  - Protection against short-circuit of mains elco's with doubler.

Interfacing between SSB and Main Supply
- +24V (or +12V) from MF supply (1304) to Display (backlight) (1312, 1313, or 1314, 1315 or 1316, 1317).
- +12V from MF supply (1304) to SSB (1M46) and Ambient Light circuit (1M10).

DC/DC Converter (only for Sharp displays)
The DC/DC converter, which is present on the SSB, is based upon the "Synchronous Buck Converter" principle. A description of this principle can be found in the FTL13 Service Manual.

9.2.3 Start-up sequence

Connect the mains voltage
1. A voltage of 130-400 V_{DC} (depends on region) will be available at the Stand-by Supply panel.
2. The +5V2 becomes available for the SSB.

Close the functional switch
1. +5V2_RELAY_IO will be present (= supply for relay and P). A POR is generated.
2. If STAND-BY bit is "low", the +5V_SW will be present for the SSB.
3. The relay is closed.
4. The Main Supply will start up.
5. The +24V (+12V for Sharp displays) and the Audio Supply becomes available.
6. +12V ready from MF panel -> +8V6 on Stand-by Supply panel is ready to SSB

9.2.4 Power States

There are four different power states. Their characteristics are summarised in Table "Power states".

Table 9-1 Power states

Power States	Switch	LCD
OUT (Mains cord disconnected)	X	No power.
OFF	OFF	Stand-by supply is working. Main supply not working. 2003: OTC is not powered. 2004: OTC is powered and is in low power stand-by. No LED is "on". No P50 or EPG. Proximity sensor is OFF. No time extraction started. No ambient light. RC6 ignored.
STAND-BY (1)	ON	Stand-by supply is working. Red LED is "on" in EU and US.
SEMI STAND-BY (Going to ON)	ON	Stand-by supply is working. Main supply is working. LCD and LCD backlight not active. EPG loading and P50 recording are possible (EU). Time extraction (EU and US). 2003: Red and Green LEDs are "on". 2004: Blue LED is "on".
ON	ON	The set is working. 2003: Green LED is "on" in EU and US. 2004: Blue LED is "on".
SEMI STAND-BY (Coming from ON)	ON	Stand-by supply is working. Main supply is working. LCD and backlight not active. EPG loading and P50 recording are possible (EU). 2003: Red and Green LEDs are "on". 2004: Red LED is "on".
SEMI STAND-BY (Ambient light ON)	ON	Stand-by supply is working. Main supply is working. LCD and backlight not active. Red LED is "on".

(1) Stand-by, entered via the remote or via a protection. A special case of STAND-BY state is SERVICE STAND-BY STATE. It can be entered by a service engineer with a "Dealer Service Tool". In this state, an IR LED can be used for Diagnostics (for reading error codes). It is the starting condition for the "stepwise start-up".

Notes:
- Region US uses a red LED for STAND-BY and a blue LED for ON, like in Europe. Otherwise, there is no visible difference between OFF and STAND-BY.
- In SEMI-STAND-BY coming from STAND-BY, the blue LED is "on",
- In SEMI-STAND-BY coming from ON, the red LED is "on".

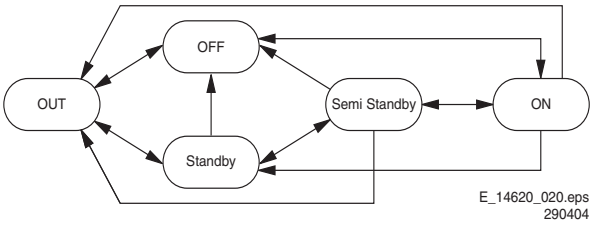


Figure 9-5 Power state diagram

- **OUT:** The set is OUT when the mains cord is disconnected. When the mains cord is connected, the set goes to OFF or to STAND-BY state, depending on the last status in the NVM. From all states, the set can be set to the OUT state by disconnecting the mains cord or by a mains interruption.
- **OFF:** In the OFF state, the OTC is powered but is in low power STAND-BY state. No LEDs are "on", RC6 is ignored, no EPG or P50 is possible, Proximity is set to "off", time extraction is not started (if it was done before this state, the clock stays running). This state can only be changed by the tact switch; the set goes via SEMI-STAND-BY to ON. From all states, we can go to the OFF state by the tact switch.
- **STAND-BY:** The set is in STAND-BY if the STAND-BY bit is set. This state can change with the RC6 "on" command, for EPG loading, P50 recording, for time extraction, or for ambient light. The next state is SEMI-STAND-BY and to ON if the STAND-BY bit is not set.
- **SEMI-STAND-BY:** State between STAND-BY or OFF and ON state. All supply voltages are present, but the screen is blanked.
- **ON:** set is ON.

9.2.5 POR detection

Situation in 2003:
By starting up or switching "off" the set by the ON/OFF switch or with (dis)connecting the mains cord, the power supply generates a POR. In case of mains spikes within the limits, there should be no POR. The POR line is "high" by starting up and shutting down and is "low" when the set is "on". This line mutes the audio amplifier and the audio outputs. The POR is also inverted and sent to the OTC (POR_FLASH). After a POR, the software starts the set, and there is a delay of 1 s after switching "off" for the backlights.

Changes in 2004:
Since the ON/OFF switch is always closed (not present anymore), there is no POR by starting up. The POR line is connected to +5V2 and is always "high". Only when the mains cord is reconnected, the Stand-by supply starts up, and the POR line follows the start up of the 5V2.

9.3 Video

For a detailed description of the Feature Box (PICNIC, Columbus, FEM, and Eagle 1C), see the EM5.3 Service Manual.

9.4 Synchronisation

See the FTL13 manual for a (more) detailed description.

9.5 Audio

See the FTL13 manual for a (more) detailed description.

9.6 Control

See the FTL13 manual for a (more) detailed description.

9.7 Proximity Sensor (if present)

9.7.1 Introduction

The function of Proximity Sensor is to detect a motion when the customer is approaching the set. It will then light up the LEDs on the set for 6 s (detection area is 1.5 - 2 m). Its functionality is based upon IR emission, IR detection, and LED lighting processes. These three different phases are defined as follows:

1. First, it emits a signal through an IR transmitter.
2. Then it detects a reflection of this signal caused by a person approaching the set.
3. Finally, it lights up the different LEDs.

There are two IR transmitters used to cover the complete front, and detection is done with the existing IR receiver. It detects the reflected signal coming from the customer when he/she is approaching the set. If the customer presses a button on the keyboard of the Top Control, the lighting phase is also activated (or re-triggering).
The output of the module will control the lighting of the LED with a fade in/out effect.
The function can be switched “off/on” in the set-up menu.
The module is powered by the 5V_STAND-BY and works in “Stand-by” and in “On” state.

The control of the proximity sensor is done by a separate microprocessor. The communication between this processor and the OTC is done by the RC5 line. The following info is sent via this line:

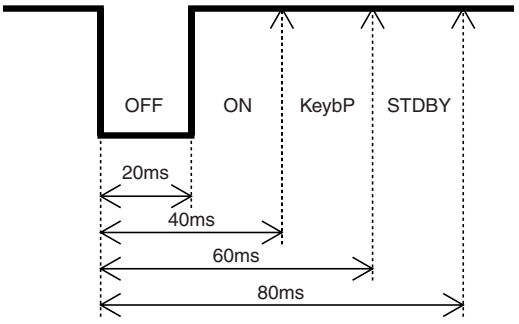


Figure 9-6 Pulses proximity microprocessor.

- Proximity OFF: negative pulse of 20 ms. The feature is switched "off" -> no detection.
- Proximity ON: negative pulse of 40 ms. The feature is turned "on" -> detection possible.
- Keyboard pressed: negative pulse of 60 ms. This gives a command to the proximity uP to turn "on" the LEDs.
- OTC goes to STAND-BY: negative pulse of 80 ms. This gives an indication that the set is in "Stand-by" mode.

9.7.2 Block Diagram

The function diagram is shown in the next figure.

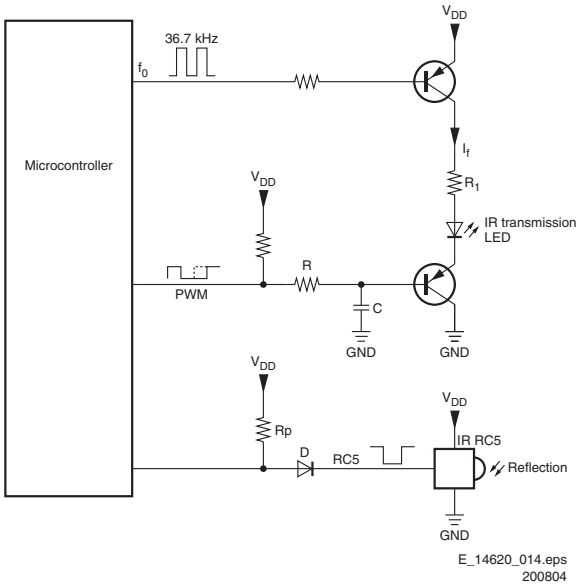


Figure 9-7 Emitting and detecting diagram

Emitting phase

IR Transmission (fo)
The IR transmission is realised with diode D6080 (TSAL5300). This IR emitting diode is modulated with a 36.7 kHz signal. This frequency (fo) is the same as the carrier frequency of the remote control system (RC5/6). The microcontroller IC7075 (87LPC760) generates a specific pattern: during one second 10 times 100 periods (T0= 1/f0) of the modulation signal is sent with a duty cycle of 50%. A timer port of the microcontroller is used to generate the 36.7 kHz

AGC of the transmission (PWM)
The Automatic Gain Control (AGC) allows managing the power of the IR emitting diode according to the detected reflection signal. The microcontroller generates a Pulse Width Modulation (PWM) signal that will change as soon as there is a reflection signal received by the RC5/6 system. If there is no reflection signal detected, the power will increase (average PWM signal tends to "0"). If a detection signal appears and remains, the power of the IR diode will decrease (average PWM signal tend to "1"). The average PWM signal is realised with a RC filter.
The maximum power depends on the forward current (If) in the IR diode. This current can be adjusted with the resistance R3022: the higher this resistance, the lower the IR power. During the start up of the Proximity sensor feature, a calibration mode will adapt the power of the IR diode. It is clear that the distance of the detection will decrease while the PWM signal tends to "1".
If a fixed object is placed in front of the TV set, the power will be adjusted and the detection zone will be limited from the TV set until the object. A timer port of the microcontroller is used to generate the PWM signal.

Detecting phase

IR detection (Reflection)
The IR detection is done via the existing remote control system (RC5/6). This IR receiver system detects all signals that get a carrier frequency of 36.7 kHz (f0). When a signal is detected, the output of the RC5/6 system will go to "0".
For the proximity sensor, we use this detection process to activate the LED signal. The microcontroller receives the detection signal coming from the reflection. There is a reflection when the modulated pattern (sent through the IR transmitting diode) hits an object or a person in the detection zone. The IR receiver demodulates the pattern signal that is directly decoded by the microcontroller. It is clear that the reflection will depend on the colour and texture of the customers clothing, or the object (table, chair...).
The figure shows the connection between the microcontroller and the RC5/6 system. The input port (an interruption pin) of the microcontroller is used for this.

Detection zone
The detection zone is defined when the IR diode power is at its maximum (average PWM signal is "0").
The Proximity sensor is more sensitive with bright and reflective clothes or surfaces. The detection zone is quite directive and is limited to one side of the set. Therefore, a divergence lens should be placed in front of the IR emitting diode to increase the detection zone and /or the IR diode orientation has to change on the main switch board.

Lighting phase

Fade in/out effect and current driver:
When the microcontroller detects a reflection signal, it will switch on the blue LEDs located on the Top Control. The light of the LED will increase gradually to full intensity (fade in effect). This effect will take 1 s. The light will remain "on" during 6 s, then it will switch "off" gradually within 3 s (fade out effect). The light can re-trigger if the microcontroller receives the keyboard press information (as described in the "keyboard press detection" paragraph).
The fade in/out effect is realised with a simple electronic circuit (see following figure). The timing can be adjusted by changing the value of the resistors R3031 and R3032.

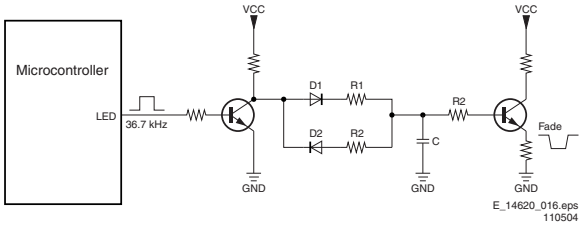


Figure 9-8 Fade in/out circuitry

A current driver circuit is used to power at least ten blue LEDs (see next figure). This current driver can supply around 120 mA thanks to the transistor TS7031.

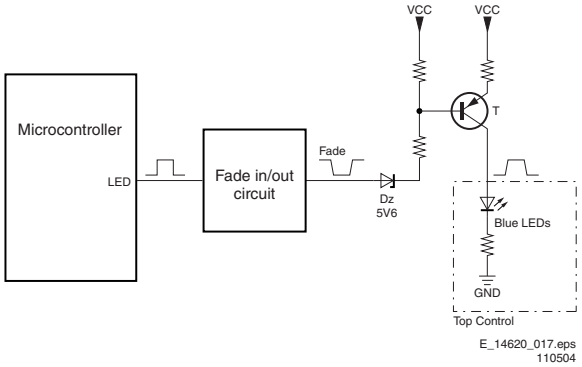


Figure 9-9 LED driver circuitry

Keyboard press detection
If the user manages to approach the set without activating the sensor but presses any button on the Top Control, the blue light will switch "on". If the user activates any button within the lighting phase, the light stays on for another 6 s.

The keyboard press detection is done by communication via the RC5/6 line. Because the OTC already receives the information KEYBOARD_PRESS, we can use the communication protocol between the OTC and the microcontroller via the RC5/6 line to switch "on" the blue LEDs.

9.8 Ambient Light (if present)

9.8.1 Introduction

At the rear left and right side of the TV-set, three gas discharging lamps are mounted. With the red, green, and blue lamps, each colour can be made.

- Ambient light is adjustable with three variables: Hue, Saturation, and Brightness.
- Hue and saturation are controlled via menu control or via smart settings.
- The brightness is controlled via menu or via a cycle generator.
- The light sensor influences the brightness.
- Switching "on" or "off" goes via a ramp up or down.
- The ambient light may be active or passive.

In the user set up menu the following items are added:

- Ambient Light.
- Lights "On/Off".
- Ambient Light: "Personal/Normal/Warm/Cool".

Two extra keys are added on the Remote Control:

- ON/OFF: A (normal) press on this key switches the Ambient Light "On/Off".
- MODE: In case the set is "On", to toggle the smart modes.

Specifications:

- Lamp current frequency= 43 kHz.
- Lamp dimming frequency= 85 Hz.
- PWM duty cycle range= 30 %
- Each lamp is only driven one third of the period to avoid crosstalk (drive lamps at 33.3 % to have no losses in output).

9.8.2 Block diagram

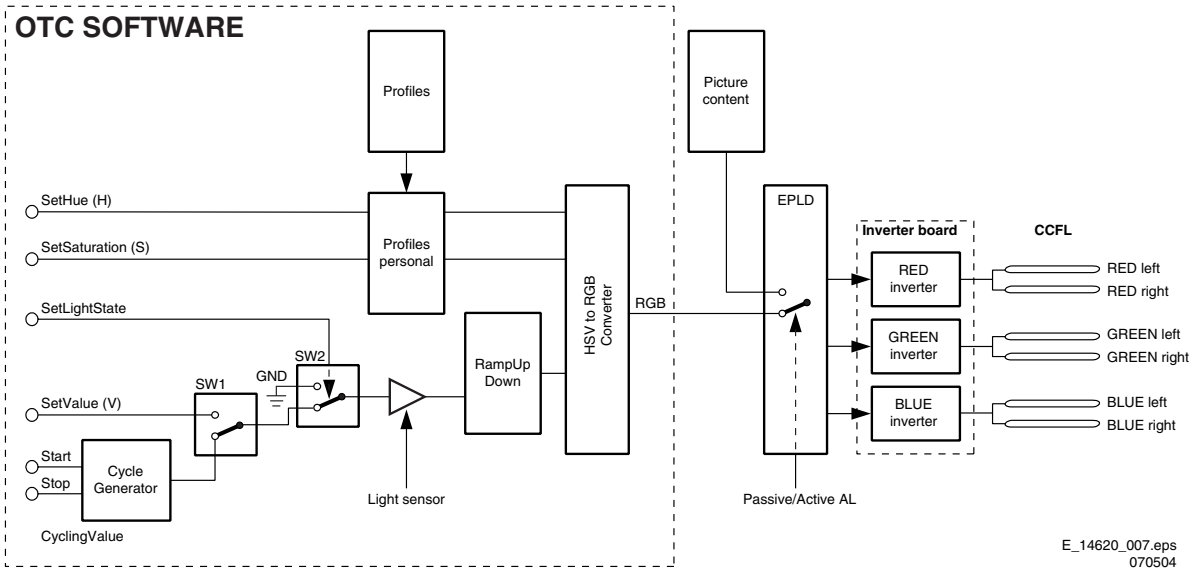


Figure 9-10 Ambient light block diagram

All mentioned blocks (from "Cycle Generator" to "HSV-to-RGB Converter" are implemented in the main software. Via I^2C, the RGB values are sent to the EPLD (where a selection is made between "active" and "passive" mode) and again via I^2C the Inverter board is addressed.
In "passive" mode, the RGB values from the "HSV-to-RGB Converter" are used, while in "active" mode the picture content is used to steer the ambient lights.

Cycle Generator
The Cycle Generator (for fade in/out) starts with a long press on the "On/Off" button on the RC. It stops when the button is released.

Light sensor
The light sensor influences the Brightness: when the room is darker, the ambient light is reduced. The amount of dimming is set according to an algorithm in the Auto TV software. In "active" Ambient Light mode, the light sensor does not influence the Brightness.

Ramp Up/down
The Brightness is changing with a speed from min. to max. in 2 s.

HSV to RGB converter.
The HSV (Hue, Saturation, Value) values are converted to RGB values.

Outputs
The outputs are RGB values and can individually be decreased.

The EPLD
In "passive" mode, the EPLD sends the info from the OTC directly to the inverter board. In "active" mode, the EPLD calculates the RGB values. Hue and Saturation are not adjustable, Brightness is adjustable.

9.8.3 Inverter Board

This board is for Service a "Black Box". This means that it is not repairable on component level, but if it is defect, the board must be swapped. See the Spare Parts List for the order code.

Some specifications:

- There are three inverters to drive the lamps, each inverter drives the Left and Right lamp for one colour.
- DC-to-AC converter: 2.3 kV.

- Able to drive Cold Cathode Fluorescent Lamps (CCFL). There are two lamp units, three lamps (RGB) per unit= six lamps.
- The lamps are driven with Pulse Width Modulation (PWM).
- The inverters and lamps are supplied with 12V from main supply.

9.9 Software Upgrading

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

See the FTL13 manual for a (more) detailed description.

9.10 Abbreviation list

1080i	1080 visible lines, interlaced
1080p	1080 visible lines, progressive scan
2DNR	Spatial (2D) Noise Reduction
3DNR	Temporal (3D) Noise Reduction
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 sets directly from 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
ANR	Automatic Noise Reduction: one of the algorithms of Auto TV
AR	Aspect Ratio: 4 by 3 or 16 by 9
Artistic	See OTC 2.5: main processor
ASF	Auto Screen Fit: algorithm that adapts aspect ratio to remove horizontal black bars but without throwing away video information
ATV	See Auto TV
AUDIO_C	Audio Centre
AUDIO_L	Audio Left
AUDIO_R	Audio Right
AUDIO_SL	Audio Surround Left
AUDIO-SR	Audio surround right
AUDIO_SW	Audio Sub woofer
Auto TV	A hardware and software control system that measures picture content, and adapts image parameters in a dynamic way
B/G	Monochrome TV system. Sound carrier distance is 5.5 MHz. B= VHF-band, G= UHF-band
B-SC1-IN	Blue SCART1 in
B-SC2-IN	Blue SCART2 in
B-TXT	Blue teletext
CL	Constant Level: audio output to connect with an external amplifier
ComPair	Computer aided rePair
CRT	Cathode Ray Tube or picture tube
CSM	Customer Service Mode
CTI	Colour Transient Improvement: manipulates steepness of chroma transients
CVBS	Composite Video Blanking and Synchronisation
CVBS-TER	CVBS terrestrial
COLUMBUS	COLour LUMinance Baseband Universal Subsystem. IC performing noise reduction and 2D/3D comb filtering
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	Direction For Use: description for the end user
D/K	Monochrome TV system. Sound carrier distance is 6.5 MHz. D= VHF-band, K= UHF-band
DNR	Digital Noise Reduction: noise reduction feature of the box

DPL	Dolby ProLogic
DSP	Digital Signal Processing
DST	Dealer Service Tool: special remote control designed for dealers to enter e.g. service mode
DVD	Digital Versatile Disc
DVI(-d)(-i)	Digital Visual Interface (d= digital only) (i= integrated); a digital video interface to a display, designed to replace the analogue YPbPr or RGB interface
Eagle	Feature box IC performing peaking, zooming and sub pixel LTI in both horizontal and vertical direction, CTI and other colour features
EDID	Extended Display Identification Data (VESA standard)
EEPROM	Electrically Erasable and Programmable Read Only Memory
EHT	Extra High Tension
EPG	Electronic Program Guide: system used by broadcasters to transmit TV guide information (= NexTView)
EPLD	Erasable Programmable Logic Device
EU	EUrope
EXT	External (source), entering the set via SCART or via cinches
FALCONIC	SAA4992H, Feature Box IC performing Digital Natural Motion, 3DNR, and vertical zoom and vertical peaking
FBL	Fast Blanking: DC signal accompanying RGB signals
FBL-PIP	The fast blanking signal for PIP
FBL-TXT	The fast blanking signal for TXT. It has a higher priority than FBL-PIP
FBX	Feature Box: part of small signal / separate module which contains 100 Hz processing, extra featuring and AutoTV algorithms (FBX6= based on PICNIC, FBX7= based on PICNIC and Eagle)
FDS	Full Dual Screen
FEM	Falconic Embedded Memory; IC (SAA4998H) that is the successor of the SAA4993H with jagged line removal and embedded memory
FHP	Fujitsu Hitachi Plasma display Ltd.
FLOF	Full Level One Features, TXT standard
FLASH	Flash memory
FM	Field Memory or Frequency Modulation
G-TXT	Green teletext
GND-DRIVE	A separate ground for the line drive towards the line driver
HA	Horizontal Acquisition: horizontal sync pulse coming out of the HIP
HD at HOME	A signal from the OTC, to switch the HOP to the Pixel Plus standard (75 Hz frame)
HIP	High-end video Input Processor (TDA9320): video and chroma decoder of EM5E
HOP	High-end video Output Processor (TDA9330): video, sync, and geometry controller of EM5E
HP	Head phone
I	Monochrome TV system. Sound carrier distance is 6.0 MHz. VHF- and UHF-band
Interlaced	Scan mode where two fields are used to form one frame. Each field contains half the number of the total amount of lines. The fields are written in 'pairs', causing line flicker
I/O	Input/Output
I^2C	Inter IC bus (also called IIC)
IF	Intermediate Frequency
Interlaced	Scan mode where two fields are used to form one frame. Each field contains half the number of the total amount of lines. The fields are written in "pairs", causing line flicker
Last Status	The settings last chosen by the customer, 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
LCD	Liquid Crystal Display
LPL	LG-Philips LCD
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
LNA	Low Noise Adapter
LORE	LOcal REgression based noise reduction
LSP	Large signal panel
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. M= 525 lines @ 60 Hz, N= 625 lines @ 50 Hz
MSP	Multi-standard Sound Processor: ITT sound decoder of EM5E
MUTE	Mute-Line
NC	Not Connected
NICAM	Near Instantaneously Companded Audio Multiplexing; This is a digital sound system, mainly used in Europe
NTSC	National Television Standard Committee; Colour system mainly used in North America and Japan. Colour carrier NTSC M/N= 3.579545 MHz, NTSC 4.43= 4.433619 MHz (this is a VCR norm, it is not transmitted off-air)
NVM	Non Volatile Memory: IC containing TV related data e.g. alignments
O/C	Open Circuit
ON/OFF LED	On/Off control signal for the LED
OSD	On Screen Display
OTC	On screen display Teletext and Control; also named Artistic (SAA5800)
P50	Project 50 communication: protocol between TV and peripherals
PAL	Phase Alternating Line; Colour system mainly used in West Europe (colour carrier= 4.433619 MHz) and South America (colour carrier PAL M= 3.575612 MHz and PAL N= 3.582056 MHz)
PCB	Printed Circuit Board
PDP	Plasma Display Panel
PFC	Power Factor Corrector (or Pre-conditioner)
PICNIC	Peripheral Integrated Combined Network IC (SAA4978): main IC for 100 Hz featuring and feature processing
PIP	Picture In Picture
PLL	Phase Locked Loop; Used for e.g. FST tuning systems. The customer can directly provide the desired frequency
POR	Power On Reset; Signal to reset the µP

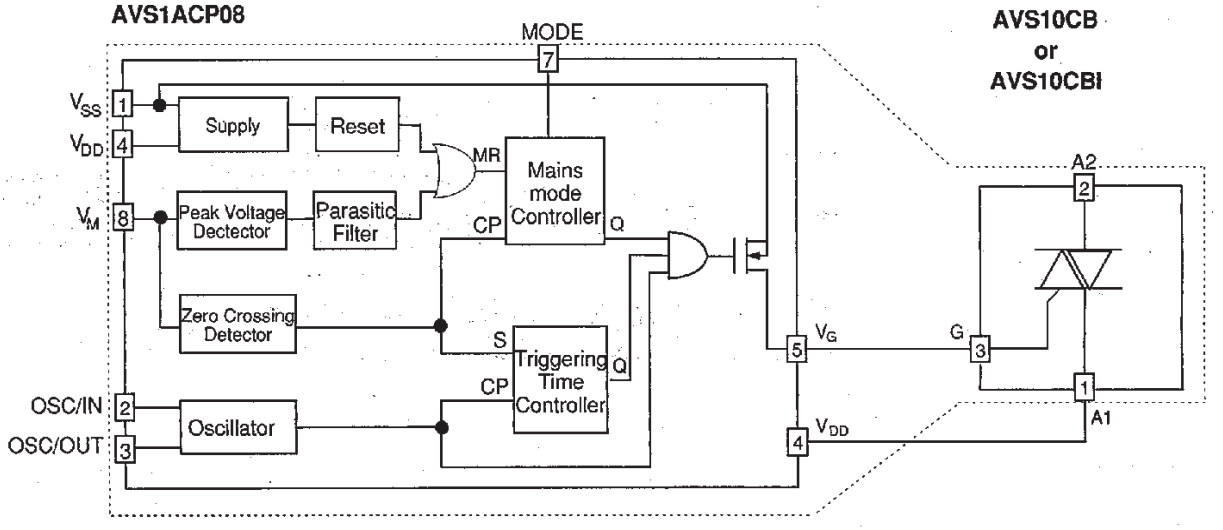
Progressive Scan	Scan mode where all scan lines are displayed in one frame at the same time, creating a double vertical resolution.
PSU	Power Supply Unit
PWB	Printed Wiring Board
RAM	Random Access Memory
R-TXT	Red teletext
RC	Remote Control
RC5 / RC6	Signal protocol from the remote control receiver
RESET	Reset signal
RGB	Red, Green, and Blue colour space; The primary colour signals for TV. By mixing levels of R, G, and B, all colours (Y/C) are reproduced
RGBHV	Red, Green, Blue, Horizontal sync, and Vertical sync
ROM	Read Only Memory
SAM	Service Alignment Mode
S/C	Short Circuit
SCL-F	Clock signal on fast I^2C bus
SD	Standard Definition
SDA-F	Data signal on fast I^2C bus
SDI	Samsung Display Industry
SECAM	SÉquence Couleur Avec Mémoire; Colour system mainly used in France and East Europe. The chroma is FM modulated and the R-Y and B-Y signals are transmitted line sequentially. Colour carriers= 4.406250 MHz and 4.250000 MHz
SIF	Sound Intermediate Frequency
SMD	Surface Mounted Device
SMPS	Switched Mode Power Supply
SNERT	Synchronous No parity Eight bit Reception and Transmit
SSB	Small Signal Board
STBY	Stand-by
SW	Sub woofer
SVGA	800x600 (4:3)
SVHS	Super Video Home System
TMDS	Transition Minimised Differential Signalling
TOP	Table Of Pages; TXT standard
TXT	Teletext
uP	Microprocessor
UV	Colour difference signals
UVSH	UHF, VHF, S-, and Hyper-band
VA	Vertical Acquisition
V-a	Addressing voltage for the plasma display
VDS	Virtual Dolby Surround
VESA	Video Electronics Standards Association
VFB	Vertical Flyback Pulse: vertical sync pulse coming from the Feature Box
VGA	Video Graphics Array; 640x480 (4:3)
VL	Variable Level out: processed audio output towards external amplifier
V-ra	Setting voltage for V_a
V-rs	Setting voltage for V_s
V-s	Sustain voltage for the plasma display
WSS	Wide Screen Signalling; used by broadcasters to transmit e.g. PALPLUS and 16:9 Aspect Ratio
WXGA	Wide eXtended Graphics Array; 1280x768 (15:9) or 1366x768 (16:9)
WYSIWYR	What You See Is What You Record: record selection that follows main picture and sound
XGA	Extended Graphics Array; 1024x768 (4:3)
XTAL	Quartz crystal
Y	Luminance signal
Y100	Y from Feature Box
YPbPr	This is a scaled version of the YUV colour space. Y= Luminance, Pb/Pr= Colour difference signals B-Y and R-Y, other amplitudes w.r.t. to YUV
Y-OUT	Luminance-signal to HOP IC
YUV	Colour space used by the NTSC and PAL video systems. Y is the luminance and U/V are the colour difference signals

9.11 IC Data Sheets

In this paragraph, the internal block diagrams and pinning are given of ICs that are drawn as a 'black box' in the electrical diagrams (with the exception of 'memory' and 'logic' ICs).

9.11.1 Diagram A1 and A3, AVS1ACP08 (IC7805 and IC7H05)

BLOCK DIAGRAM



PIN CONFIGURATION

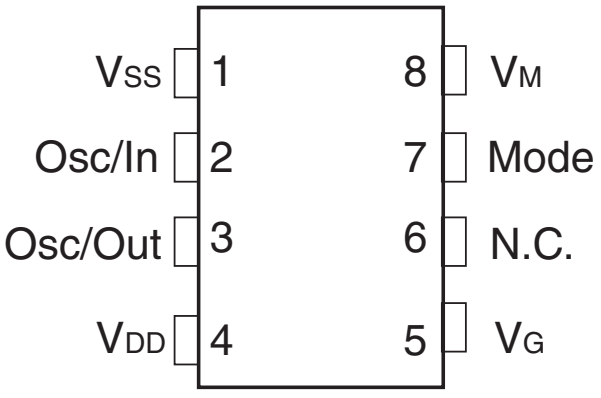


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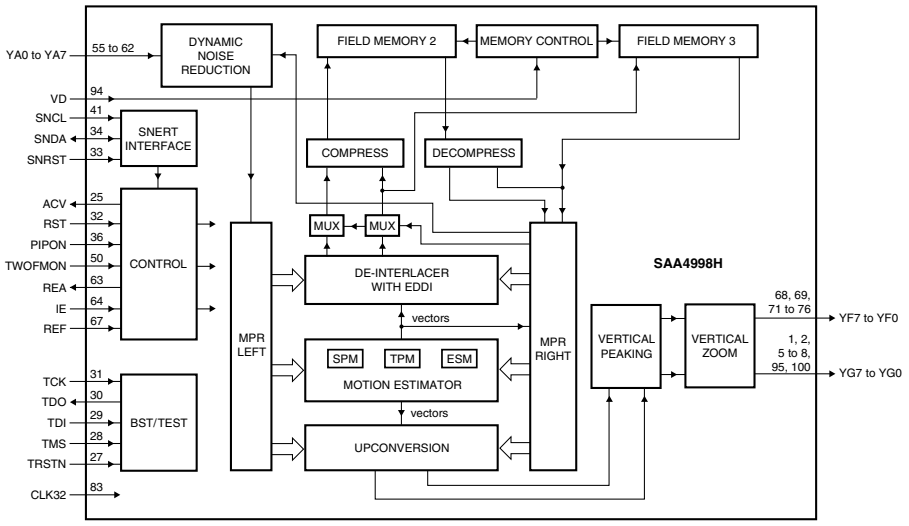
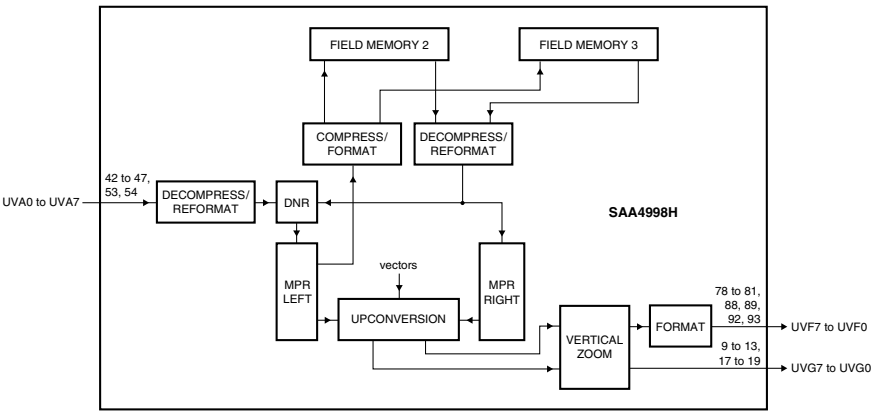
Figure 9-11 Internal block diagram and pin configuration

9.11.2 Diagram B3B, SAA4998 (IC7760)

Block diagram of the luminance part in full FALCONIC mode.



Block diagram of the chrominance part in full FALCONIC mode.



Pin configuration

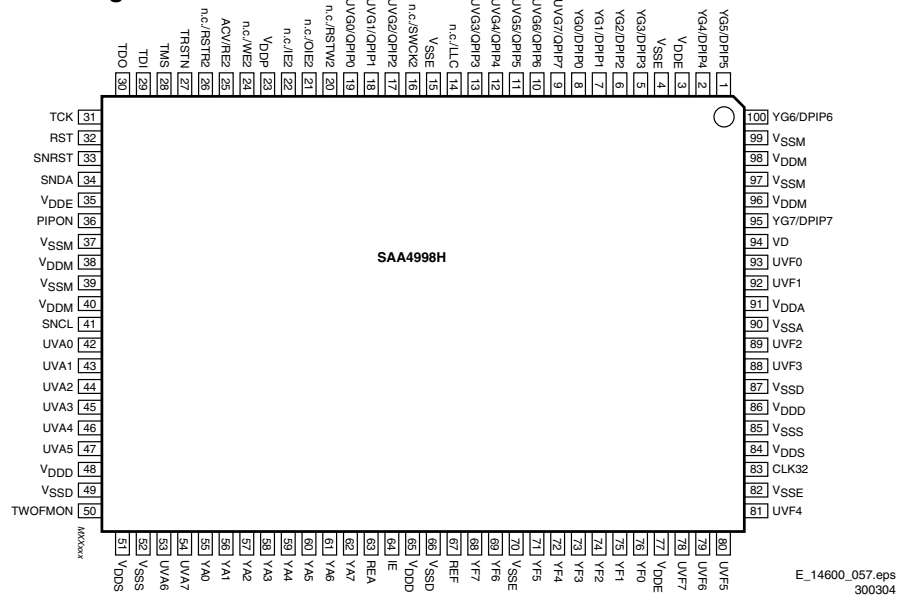
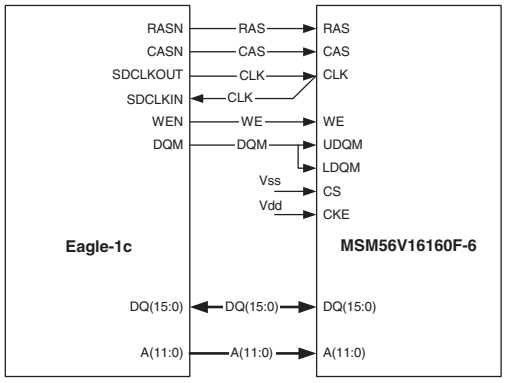


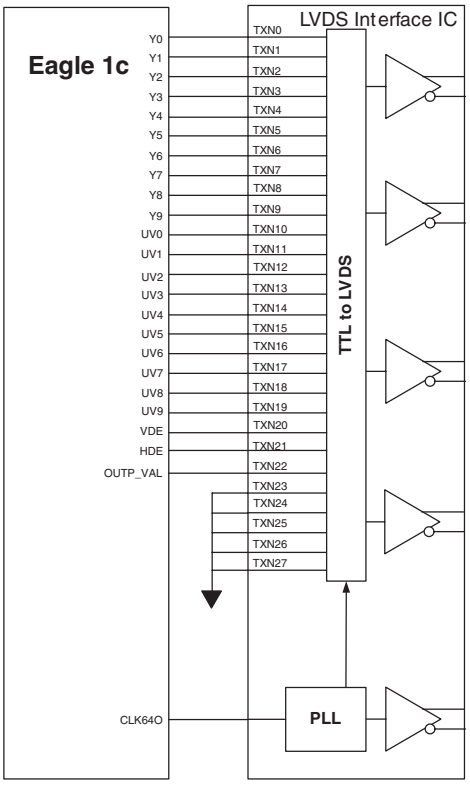
Figure 9-12 Internal block diagram and pin configuration

9.11.3 Diagram B3C, T6TX5EF (IC7720)

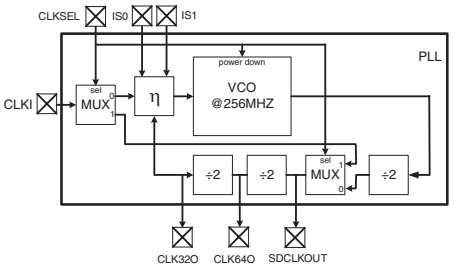
Interface between Eagle and External SDRAM



EAGLE IC digital output interface to LVDS device



Internal Clock generation



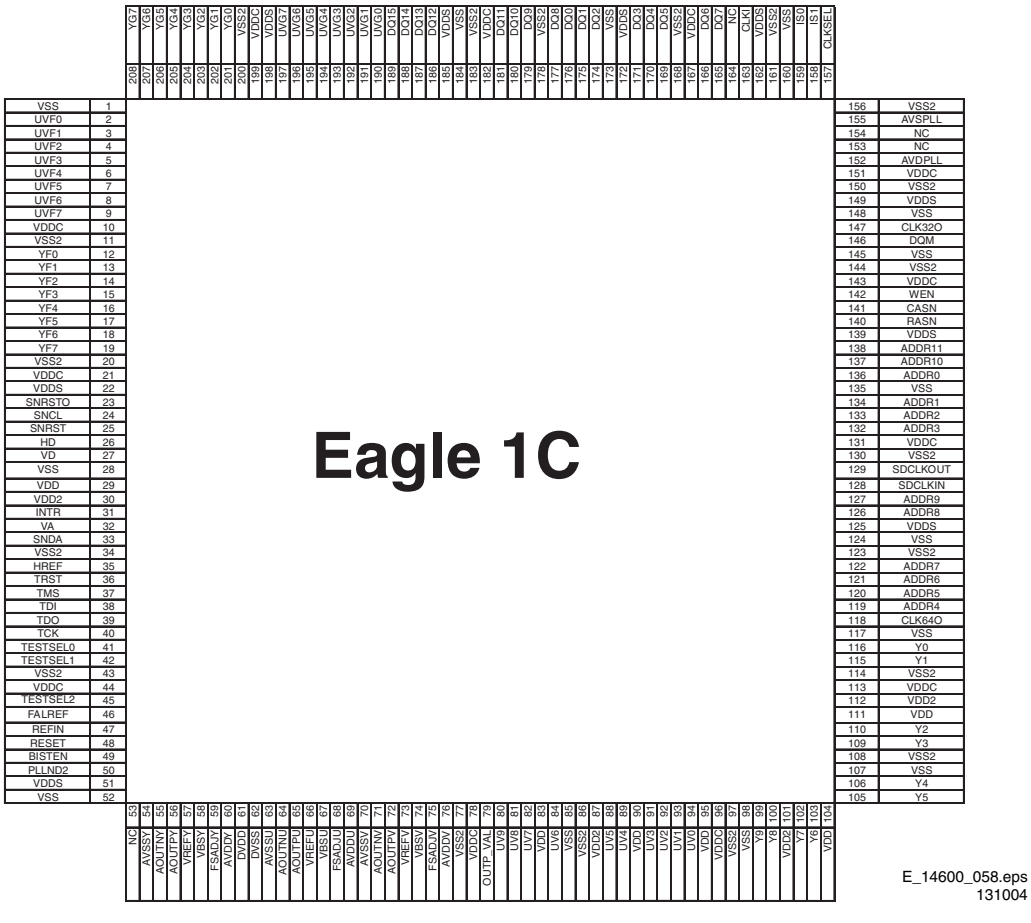


Figure 9-13 Internal block diagram and pin configuration

9.11.4 Diagram B3C, CY2305SC-1 (IC7721)

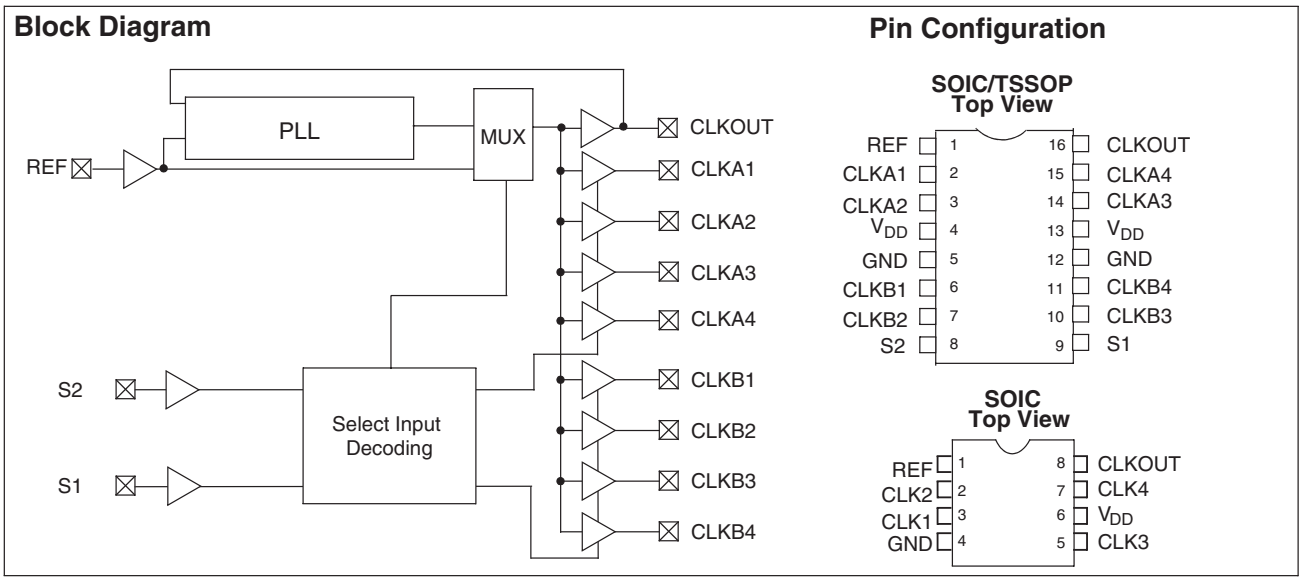


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Figure 9-14 Internal block diagram and pin configuration.

9.11.5 Diagram B3D, T6TU5XB (IC7752)

Figure 1 Package outline (top view)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
A	WEB/ DAVB	UVA0 /Di0	UVA2 /Di2	UVA4 /Di4	UVA6 /Di6	UVA8 /Di8	SEL656	TST1	YA2	YA4	YA6	YA8	VA	HREF	SDA	A
B	YB8	VSS	UVA1 /Di1	UVA3 /Di3	UVA5 /Di5	UVA7 /Di7	YA0 /Di9	BISTEN	YA1	YA3	YA5	YA7	WEA/ DAVA	VSS	SCL	B
C	YB7	YB6	VSS	VDDS	VSS	VSS	VDDC	VDDC	VSS	VSS	VDDC	VDDS	VSS	SNDA	SNRST	C
D	YB5	YB4	VDDC	N.C.									VSS	SNCL	TCK	D
E	YB3	YB2	VSS										VDDC	TMS	TDO	E
F	TST2	YB1	VSS										VSS	TRST	TDI	F
G	CLKASB	YB0 /Do9	VDDS										VDDS	A0ICC	RESET	G
H	CLKASA	UVB8/ Do8	TST3										VDDC	CLK EXT	CLKSEL	H
J	UVB7 /Do7	UVB6/ Do6	VSS										VSS	CLK	WEN	J
K	UVB5 /Do5	UVB4/ Do4	VDDC										VSS	CASN	RASN	K
L	UVB3 /Do3	UVB2 /Do2	VSS										VDDS	DQM	DQ16	L
M	UVB1 /Do1	UVB0 /Do0	VDDS										VSS	DQ14	DQ15	M
N	AVD	N.C.	VDDS	VSS	VSS	VDDC	VSS	VDDS	VDDC	VSS	VDDS	VSS	VSS	VDDS	DQ13	N
P	AVS	VSS	A7	A9	A2	A0	A11	DQ7	DQ6	DQ4	DQ3	DQ1	VDDS	VSS	DQ12	P
R	A4	A5	A6	A8	A3	A1	A10	DQ8	VSS	DQ5	VSS	DQ2	DQ9	DQ10	DQ11	R
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	

COLUMBUS TOP-VIEW

PPA Version 2.7

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Figure 9-15 Pin configuration

9.11.6 Diagram B6B, MAS3528E (IC7A30)

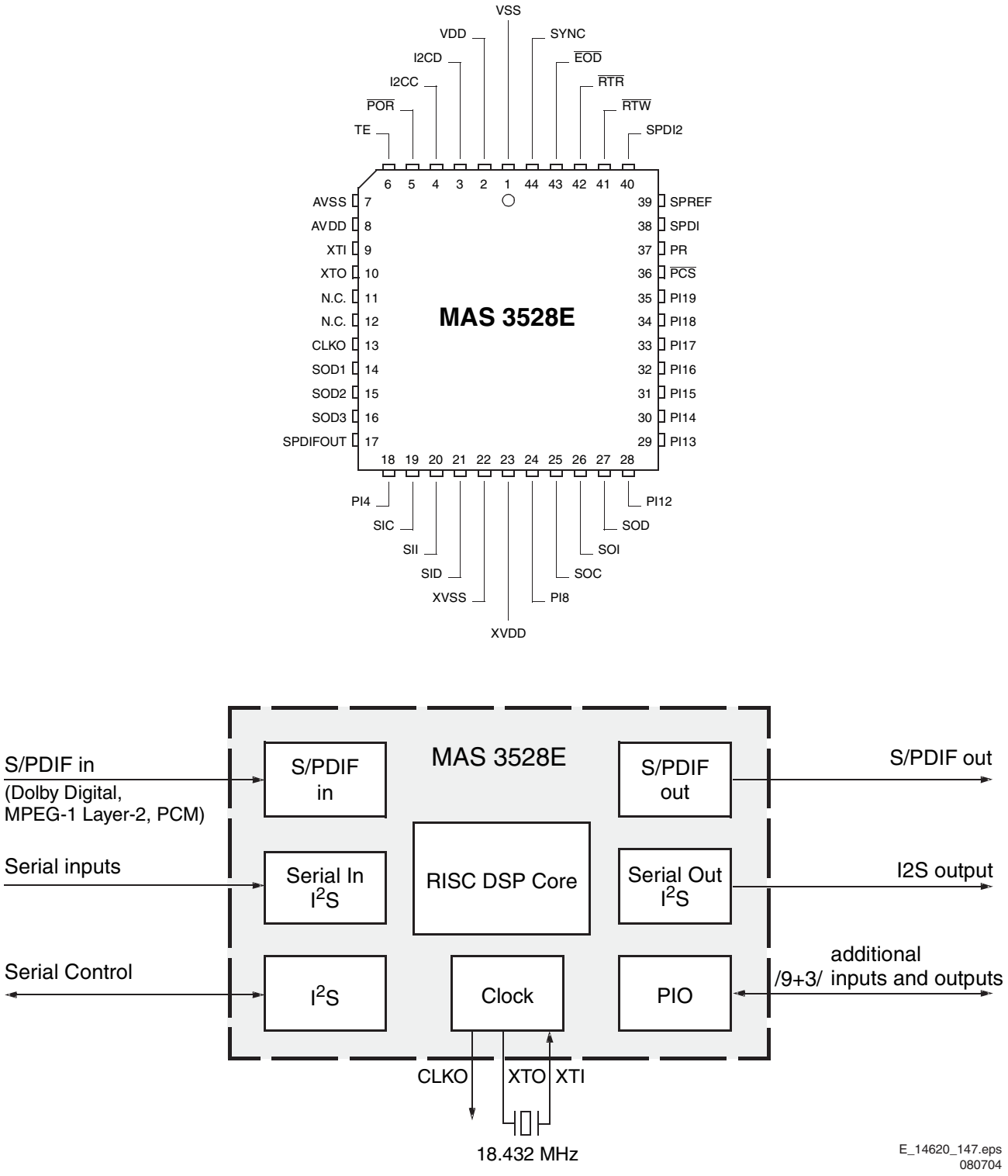
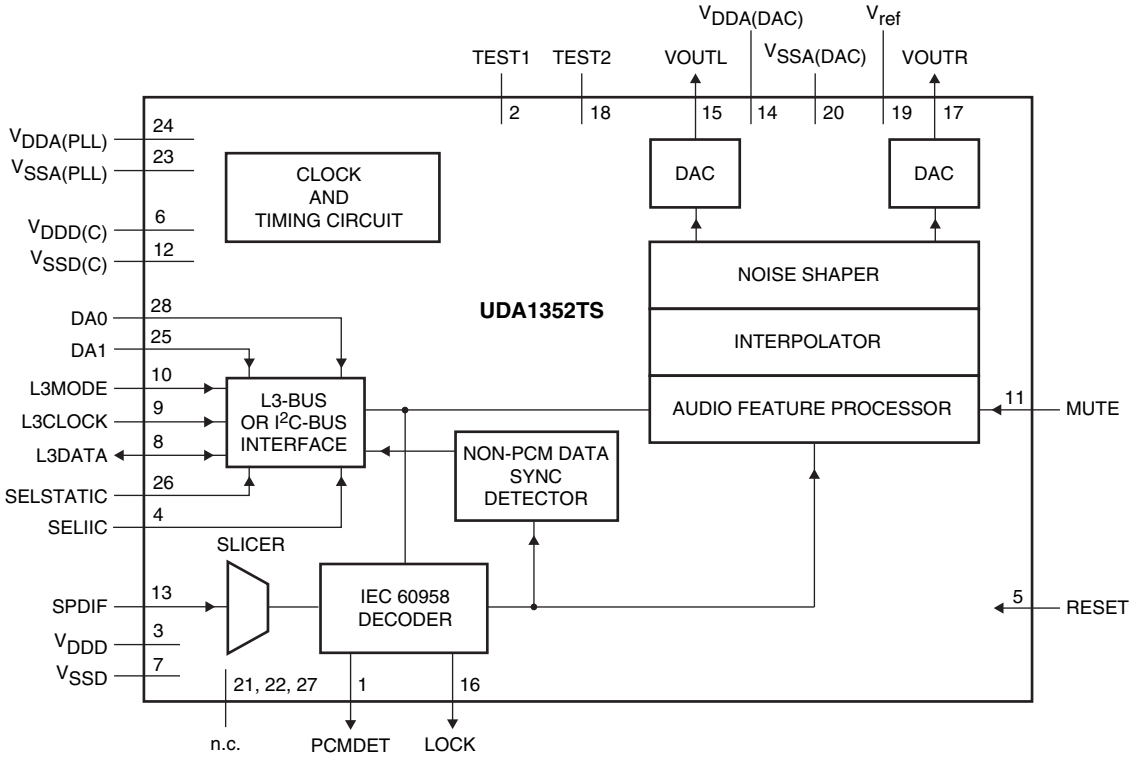


Figure 9-16 Internal block diagram and pin configuration

9.11.7 Diagram B14D, UDA1352TS (IC7I25)

BLOCK DIAGRAM



PIN CONFIGURATION

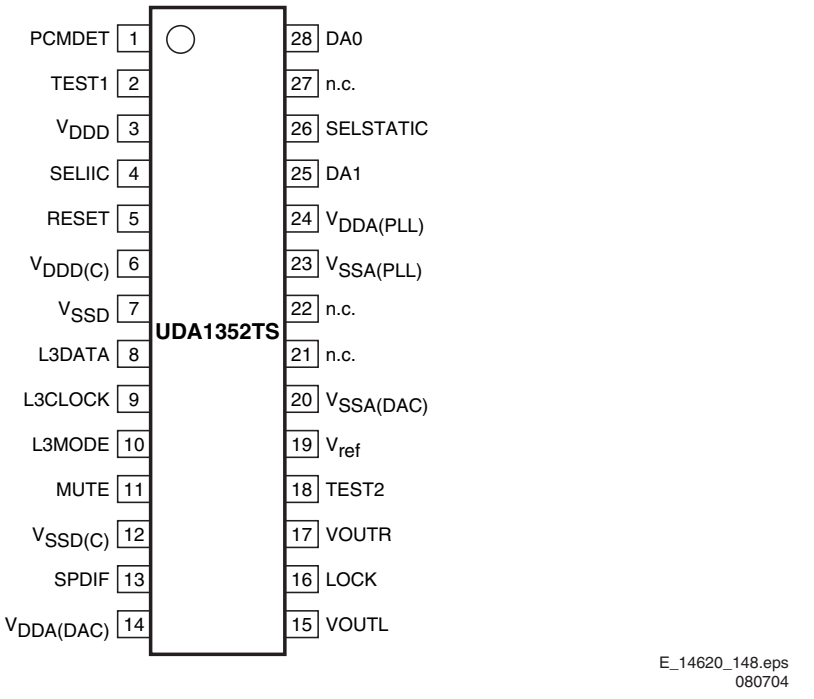


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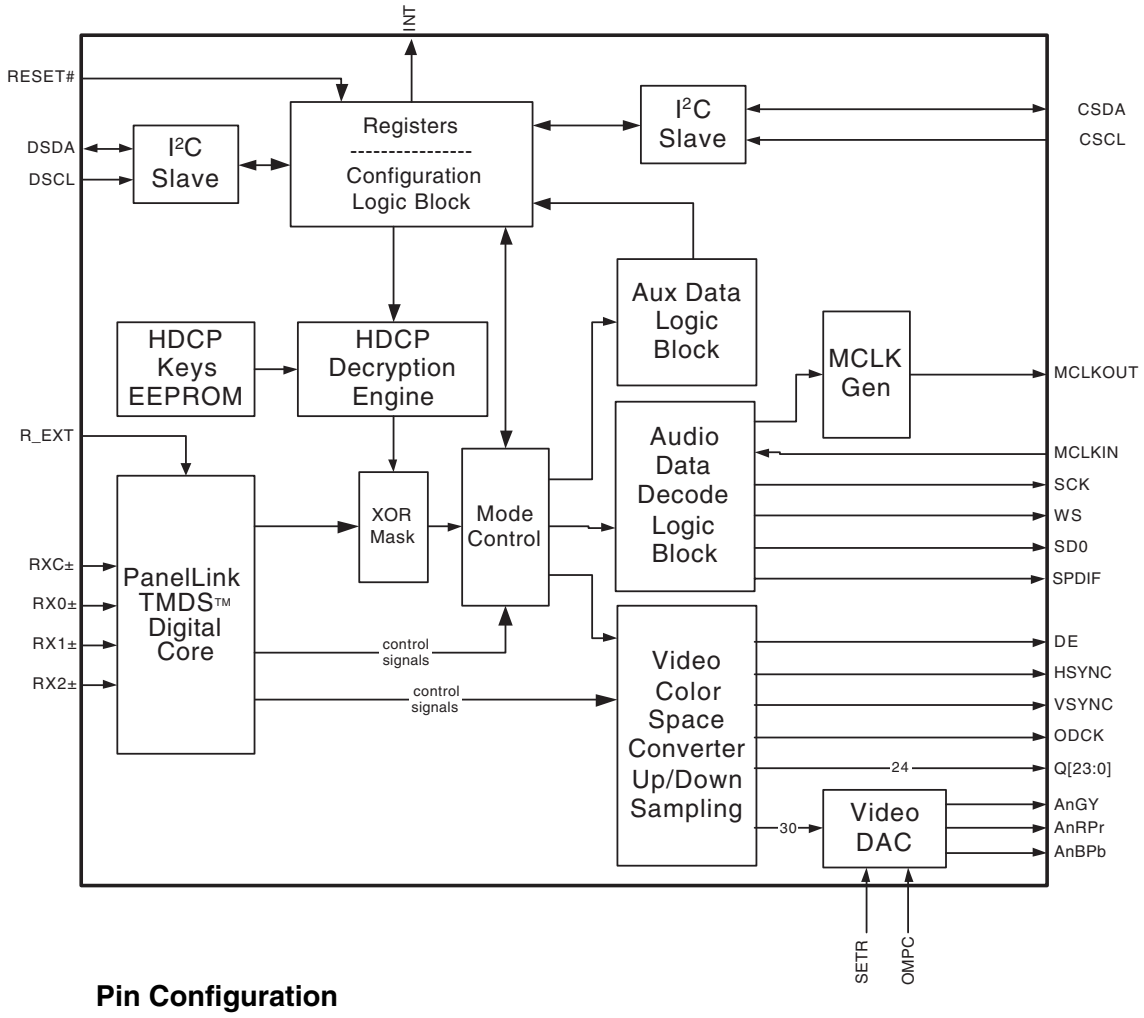
Figure 9-17 Internal block diagram and pin configuration

9.11.8 Diagram B14F, Sil9993CT100 (IC7I18)

Block Diagram



Pin Configuration

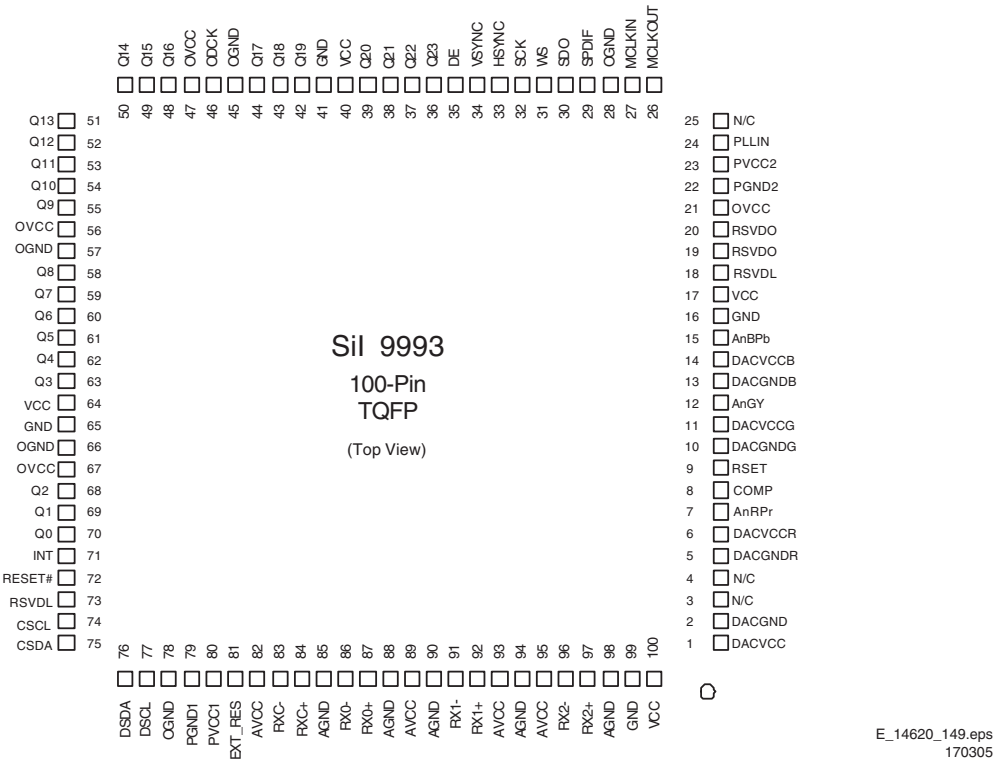
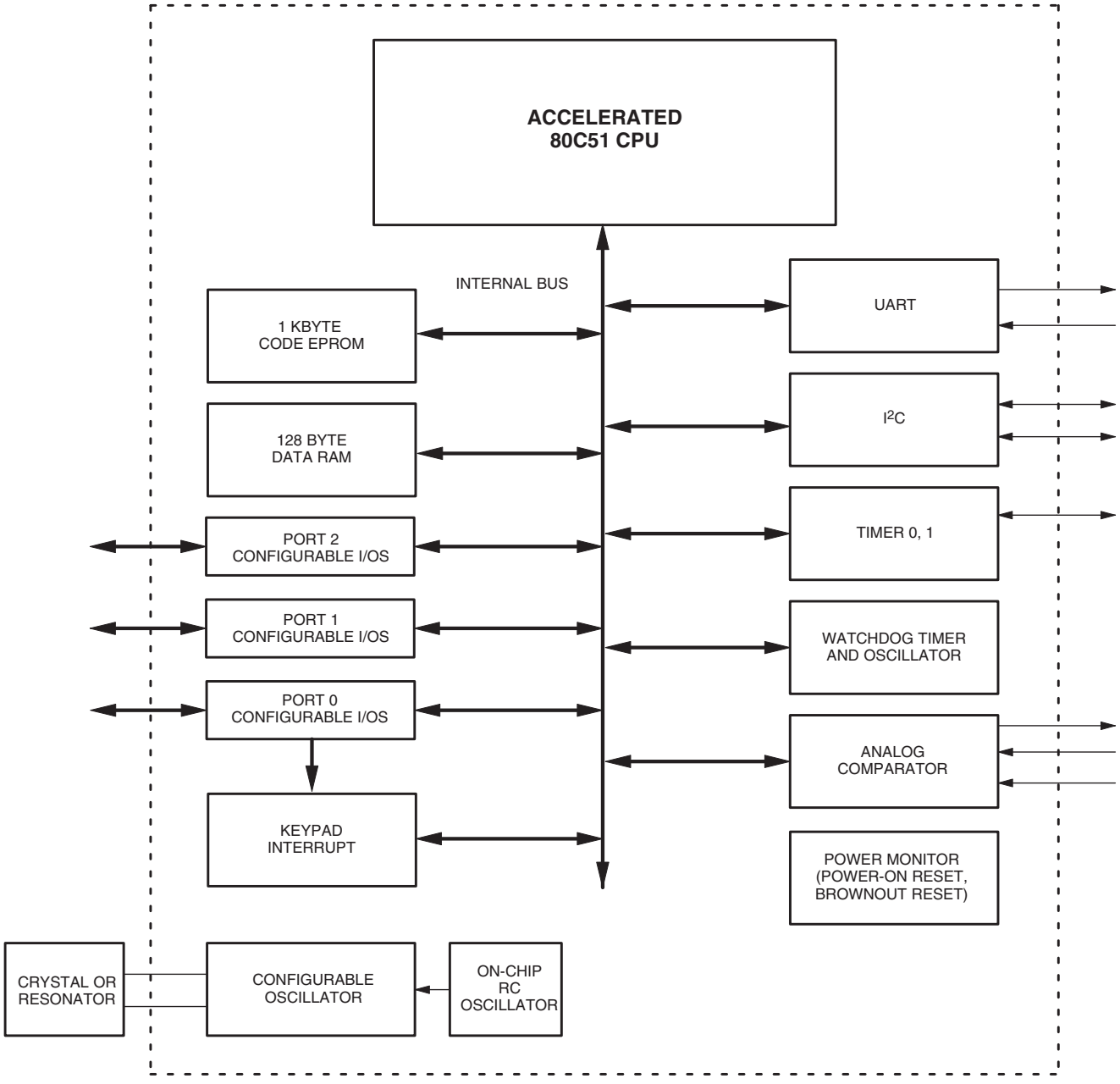


Figure 9-18 Internal block diagram and pin configuration

9.11.9 Diagram J, P87LPC760BDH (IC7075)

BLOCK DIAGRAM



PIN CONFIGURATION

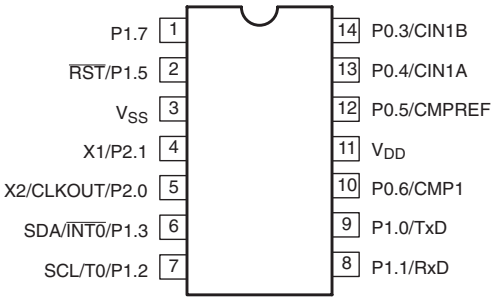


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Figure 9-19 Internal block diagram and pin configuration

10. Spare Parts List

Set Level (FTL2.1E Top)

Various

0175	3104 328 36681	Ambi Light assy 32/37" L
0175	3104 328 36701	Ambi Light assy 42" L
0176	3104 328 36691	Ambi Light assy 32/37" R
0176	3104 328 36711	Ambi Light assy 42" R
1004	9322 206 51682	LC420W02-A4 (LPL)
1004	9322 206 52682	LC370W01-A5 (LPL)
1004	9322 209 35682	LQ315T3LZ13 (Sharp)
1004	9322 211 11682	LC420W02-A4K3 (LPL)
8250	3104 311 08891	Cbl 31P/480/30P (42")
8250	3104 311 08901	Cbl 31P/230/30P (32/37")
8302	3104 311 04721	Cable 7P/680/7P
8302	3104 311 08931	Cable 7P/1000/7P
8303	3104 311 06921	Cable 4P/560/4P
8303	3104 311 08261	Cable 4P/820/4P
8304	3104 311 06921	Cable 4P/560/4P
8304	3104 311 08271	Cable 4P/340/4P
8304	3104 311 08291	Cable 4P/680/4P
8305	3104 311 01731	Cable 3P/400/3P
8305	3104 311 07581	Cable 3P/560P3P
8305	3104 311 08401	Cable 3P/280/3P
8305	3104 311 08411	Cable 3P/340/3P
8305	3104 311 08421	Cable 3P/400/3P
8306	3104 311 01431	Cable 2P3/340/2P3
8306	3104 311 08341	Cable 2P3/280/2P3
8306	3104 311 08351	Cable 2P3/340/2P3
8307	3104 311 04321	Cable 9P/450/9P
8307	3104 311 06921	Cable 4P/560/4P
8307	3104 311 08371	Cable 4P/340/4P
8309	3104 311 06921	Cable 4P/560/4P
8309	3104 311 08301	Cable 3P/340/3P
8309	3104 311 08321	Cable 3P/680/3P
8310	3104 311 07061	Cable 4P/280/4P
8310	3104 311 07371	Cable 4P/340/4P
8310	3104 311 08121	Cable 4P/340/4P
8310	3104 311 08131	Cable 4P/400/4P
8311	3104 311 09061	Cable 3P+3P11/460/3P
8311	3104 311 09081	Cable 3P+3P11/750/3P
8311	8204 000 77021	Cable 3P+3P11/1160/3P
8311	8204 000 77031	Cable 3P+3P11/1320/3P
8311	8204 000 77061	Cable 3P+3P11/970/3P
8313	3104 311 09061	Cable 3P+3P11/460/3P
8313	3104 311 09071	Cable 3P+3P11/250/3P
8313	3104 311 09081	Cable 3P+3P11/750/3P
8313	3104 311 09451	Cable 3P+3P11/600/3P
8313	8204 000 76981	Cable 3P+3P11/220/3P
8314	3104 311 07441	Cable 10P/680/10P
8315	3104 311 07441	Cable 10P/680/10P
8316	3104 311 07261	Cable 12P/120/12P
8316	3104 311 07981	Cable 12P/180/12P
8317	3104 311 07481	Cable 12P/820/12P
8317	3104 311 08191	Cable 12P/1K2/12P
8317	3104 311 08201	Cable 12P/1300/12P
8318	3104 311 07421	Cable 6P/680/6P
8320	3104 311 06921	Cable 4P/560/4P
8320	3104 311 08331	Cable 3P/820/3P
8350	3104 311 07601	Cable 5P/1K0/5P
8735	3104 311 06721	Cable 2P3/680/2P
8735	3104 311 07491	Cable 2P3/480/2P
8736	3104 311 06721	Cable 2P3/680/2P
8736	3104 311 07551	Cable 2P3/1600/2P

MF Supply [A] (FTL2.1E Top)

Various

1005▲	4822 071 55002	Fuse 5A 250V T
1006▲	4822 071 55002	Fuse 5A 250V T
1007▲	4822 071 55002	Fuse 5A 250V T
1303	2422 025 04475	Connector 4p m
1303	2422 025 10647	Connector 4p m
1304	2422 025 10647	Connector 4p m
1304	2422 025 10648	Connector 8p m
1305	4822 267 10735	Connector 3p
1306	2422 025 16374	Connector 2p m
1307	2422 025 10647	Connector 4p m
1308	4822 265 20723	Connector 2p
1309	2422 025 04475	Connector 4p m
1309	2422 025 11143	Connector 3p m
1320	2422 025 04475	Connector 4p m
1320	2422 025 11143	Connector 3p m
1400▲	4822 070 33152	Fuse 3.15A
1400▲	4822 253 50145	Fuse 3.15A T
1401▲	4822 252 11224	Fuse 1A T 250V
1402▲	4822 252 60151	Surge protect
1403	4822 265 11253	Fuse holder
1405	4822 265 11253	Fuse holder
1410	4822 265 11253	Fuse holder
1411	4822 265 11253	Fuse holder
1420	3104 311 08391	Cable 3p/140/3p Wh
1450▲	2422 132 07411	Relay 1p 5V 5A
1B06	4822 267 10735	Connector 3p
1C05	4822 267 10735	Connector 3p
1D00▲	4822 070 33152	Fuse 3.15A
1D02▲	4822 252 60151	Surge protect
1D10	4822 265 11253	Fuse holder
1D50▲	2422 132 07411	Relay 1p 5V 5A
1M02	2422 025 11244	Connector 7p m
1U07▲	4822 071 55002	Fuse T5A 250V

⊣⊢

2000▲	2020 554 90169	470pF 10% 250V
2000▲	2252 811 95022	1.5nF 20% 250V
2002	4822 124 11767	470µF 20% 25V
2003	4822 124 80061	1000µF 20% 25V
2007	2020 552 96684	470nF 10% 25V 0805
2007▲	4822 126 14583	470nF 10% 16V 0805
2008	4822 126 14583	470nF 10% 16V 0805
2009	2238 867 18101	100pF 1% 50V 0603
2010	4822 124 40207	100µF 20% 25V
2011	2022 333 00119	10nF 5% 1.6kV
2011	4822 121 70617	10nF 5% 1.6kV
2012	4822 126 13862	1.5nF 10% 2kV
2013	4822 126 13862	1.5nF 10% 2kV
2014	2252 811 95018	2.2nF 20% 250V
2014	4822 126 13451	2.2nF 10% 2kV
2015	5322 126 11583	10nF 10% 50V 0603
2016	2238 586 59812	100nF 20% 50V 0603
2017	2022 333 00119	10nF 5% 1.6kV
2017	4822 121 70617	10nF 5% 1.6kV
2019	5322 126 11583	10nF 10% 50V 0603
2020	2020 021 00012	2200µF 20% 16V
2020	4822 124 12417	2200µF 20% 25V
2021	2020 021 00012	2200µF 20% 16V
2021	2238 867 18101	100pF 1% 50V 0603
2021	4822 124 12417	2200µF 20% 25V
2022	2020 021 00012	2200µF 20% 16V
2022	4822 124 11583	2200µF 20% 35V
2022	4822 124 81168	2200 µF 20% 35V
2023	2020 552 96684	470nF 10% 25V 0805
2023	4822 126 14583	470nF 10% 16V 0805
2024	2020 552 96326	220nF 10% 16V
2025	2020 552 96683	220nF 10% 50V
2025	4822 121 51319	1µF 10% 63V
2026	4822 126 14238	2.2nF 50V 0603
2027	3198 017 31530	15nF 20% 50V 0603
2028	5322 126 11578	1nF 10% 50V 0603
2029	5322 126 11578	1nF 10% 50V 0603
2031	5322 126 11583	10nF 10% 50V 0603
2032	4822 126 13193	4.7nF 10% 63V
2033	2020 552 96683	220nF 10% 50V
2033	4822 121 51319	1µF 10% 63V
2034	2238 867 18101	100pF 1% 50V 0603
2035	2238 867 18101	100pF 1% 50V 0603
2035	5322 126 11578	1nF 10% 50V 0603
2036	4822 126 14583	470nF 10% 16V 0805
2037	4822 126 14583	470nF 10% 16V 0805
2038	2020 021 00012	2200µF 20% 16V
2038	4822 124 11583	2200µF 20% 35V
2038	4822 124 81168	2200 µF 20% 35V
2039	4822 126 14583	470nF 10% 16V 0805
2039	5322 126 11583	10nF 10% 50V 0603
2040	4822 126 14249	560pF 10% 50V 0603
2041	2020 552 96683	220nF 10% 50V
2042	2020 552 96683	220nF 10% 50V
2043	2020 552 96683	220nF 10% 50V
2044	5322 126 11578	1nF 10% 50V 0603
2045	5322 126 11578	1nF 10% 50V 0603
2046	3198 017 34730	47nF 16V 0603
2047	5322 126 11583	10nF 10% 50V 0603
2048	5322 126 11578	1nF 10% 50V 0603
2050	5322 126 11578	1nF 10% 50V 0603
2051	2020 552 96683	220nF 10% 50V
2052	2020 552 96683	220nF 10% 50V
2053	2020 552 96683	220nF 10% 50V
2060	4822 126 14238	2.2nF 50V 0603
2061	4822 126 14238	2.2nF 50V 0603
2062	4822 126 14238	2.2nF 50V 0603
2063	4822 126 13881	470pF 5% 50V
2064	4822 126 13881	470pF 5% 50V
2065	4822 126 14238	2.2nF 50V 0603
2071	5322 126 11578	1nF 10% 50V 0603
2072	5322 126 11578	1nF 10% 50V 0603
2077	4822 126 14238	2.2nF 50V 0603
2290	5322 126 11583	10nF 10% 50V 0603
2291	4822 126 13881	470pF 5% 50V
2292	2020 021 91354	1000µF 20% 50V
2292	4822 124 12417	2200µF 20% 25V
2293	4822 126 13881	470pF 5% 50V
2294	2020 021 91354	1000µF 20% 50V
2294	4822 124 12417	2200µF 20% 25V
2400▲	2222 338 22474	470nF 20% 275V
2401▲	2222 338 22474	470nF 20% 275V
2405▲	2020 554 90167	220pF 10% 250V
2407▲	2020 554 90167	220pF 10% 250V
2407▲	2252 811 95017	470pF 10% 250V
2407▲	2252 811 95065	220pF 10% 250V
2503	2020 024 90718	10µF 20% 450V
2803	2222 365 55563	56nF 10% 400V
2804	2222 365 55563	56nF 10% 400V
2816	2020 024 90749	330µF 20% 400V
2817	4822 121 70162	10nF 5% 400V
2B90	5322 126 11583	10nF 10% 50V 0603
2B91	4822 126 13881	470pF 5% 50V
2B92	2020 021 91354	1000µF 20% 50V
2B92	4822 124 12417	2200µF 20% 25V
2B93	4822 126 13881	470pF 5% 50V
2B94	2020 021 91354	1000µF 20% 50V
2B94	4822 124 12417	2200µF 20% 25V
2D00▲	2222 338 22474	470nF 20% 275V
2D01▲	2222 338 22474	470nF 20% 275V
2D05▲	2020 554 90167	220pF 10% 250V
2D07	2020 554 90167	220pF 10% 250V
2H03	2222 365 55563	56nF 10% 400V
2H04	2222 365 55563	56nF 10% 400V
2H16	2020 024 90749	330µF 20% 400V
2H17	4822 121 70162	10nF 5% 400V
2U00▲	2020 554 90169	470pF 10% 250V
2U02	4822 124 11767	470µF 20% 25V
2U03	4822 124 80061	1000µF 20% 25V
2U07	2020 552 96684	470nF 10% 25V 0805
2U08	4822 126 14583	470nF 10% 16V 0805
2U09	2238 867 18101	100pF 1% 50V 0603
2U10	4822 124 40207	100µF 20% 25V
2U11	4822 121 70617	10nF 5% 1.6kV
2U12	4822 126 13862	1.5nF 10% 2kV
2U13	4822 126 13862	1.5nF 10% 2kV
2U14	2252 811 95018	2.2nF 20% 250V
2U14	4822 126 13451	2.2nF 10% 2kV
2U15	5322 126 11583	10nF 10% 50V 0603
2U16	2238 586 59812	100nF 20% 50V 0603
2U17	4822 121 70617	10nF 5% 1.6kV
2U19	5322 126 11583	10nF 10% 50V 0603
2U21	2238 867 18101	100pF 1% 50V 0603
2U22	4822 124 11583	2200µF 20% 35V
2U22	4822 124 81168	2200 µF 20% 35V
2U23	2020 552 96684	470nF 10% 25V 0805
2U24	2020 552 96326	220nF 10% 16V
2U25	4822 121 51319	1µF 10% 63V
2U26	4822 126 14238	2.2nF 50V 0603
2U27	3198 017 31530	15nF 20% 50V 0603
2U29	5322 126 11578	1nF 10% 50V 0603
2U32	4822 126 13193	4.7nF 10% 63V
2U33	4822 121 51319	1µF 10% 63V
2U34	2238 867 18101	100pF 1% 50V 0603
2U38	4822 124 11583	2200µF 20% 35V
2U38	4822 124 81168	2200 µF 20% 35V
2U39	5322 126 11583	10nF 10% 50V 0603
2U40	4822 126 14249	560pF 10% 50V 0603
2U45	5322 126 11578	1nF 10% 50V 0603
2U46	3198 017 34730	47nF 16V 0603
2U47	5322 126 11583	10nF 10% 50V 0603
2U48	5322 126 11578	1nF 10% 50V 0603
2U50	5322 126 11578	1nF 10% 50V 0603
2U60	4822 126 14238	2.2nF 50V 0603
2U61	4822 126 14238	2.2nF 50V 0603
2U62	4822 126 14238	2.2nF 50V 0603
2U63	4822 126 13881	470pF 5% 50V
2U64	4822 126 13881	470pF 5% 50V
2U65	4822 126 14238	2.2nF 50V 0603
2U71	5322 126 11578	1nF 10% 50V 0603
2U72	5322 126 11578	1nF 10% 50V 0603
2U77	4822 126 14238	2.2nF 50V 0603

–WW–

3000▲	4822 052 10478	4.7Ω 5% 0.33W
3001	4822 051 30101	100Ω 5% 0.062W

3002	4822 051 30103	10kΩ 5% 0.062W
3002	4822 051 30393	39kΩ 5% 0.062W
3003	4822 117 13632	100kΩ 1% 0603 0.62W
3004	4822 051 30273	27kΩ 5% 0.062W
3005	4822 051 30333	33kΩ 5% 0.062W
3006	4822 051 30103	10kΩ 5% 0.062W
3007	4822 051 30103	10kΩ 5% 0.062W
3008	4822 051 30331	330Ω 5% 0.062W
3009	4822 051 30332	3.3Ω 5% 0.062W
3010	4822 051 30471	47Ω 5% 0.062W
3011	4822 051 30471	47Ω 5% 0.062W
3012	4822 051 30153	15kΩ 5% 0.062W
3013	4822 051 30103	10kΩ 5% 0.062W
3014▲	4822 052 10101	100Ω 5% 0.33W
3015▲	4822 052 10479	47Ω 5% 0.33W
3016	4822 051 30222	2.2kΩ 5% 0.062W
3016	4822 051 30332	3.3Ω 5% 0.062W
3017▲	4822 052 10101	100Ω 5% 0.33W
3018▲	4822 052 10479	47Ω 5% 0.33W
3019	4822 051 30222	2.2kΩ 5% 0.062W
3019	4822 051 30332	3.3Ω 5% 0.062W
3020	4822 051 30222	2.2kΩ 5% 0.062W
3020	4822 051 30332	3.3Ω 5% 0.062W
3021	4822 117 12971	15Ω 5% 0603 0.62W
3021	9965 000 23109	22Ω 5% 0603
3022	4822 051 30681	680Ω 5% 0.062W
3023	4822 051 30153	15kΩ 5% 0.062W
3024	2322 704 61803	18kΩ 1% 0603
3025	4822 117 12903	1.8kΩ 1% 0.063W 0603
3026	4822 101 11383	Potm. 470Ω 30% linear
3027	4822 117 13632	100kΩ 1% 0603 0.62W
3028	4822 051 30102	1kΩ 5% 0.062W
3028	4822 051 30332	3.3Ω 5% 0.062W
3029	4822 051 30222	2.2kΩ 5% 0.062W
3029	4822 051 30332	3.3Ω 5% 0.062W
3030	4822 051 30183	18kΩ 5% 0.062W
3031	4822 051 30103	10kΩ 5% 0.062W
3031	4822 051 30223	22kΩ 5% 0.062W
3032	4822 051 30103	10kΩ 5% 0.062W
3033	4822 052 11108	1Ω 5% 0.5W
3034	4822 051 30102	1kΩ 5% 0.062W
3035	4822 051 30332	3.3Ω 5% 0.062W
3036	4822 117 13632	100kΩ 1% 0603 0.62W
3037	4822 051 30153	15kΩ 5% 0.062W
3038	4822 051 30333	33kΩ 5% 0.062W
3039	4822 051 30102	1kΩ 5% 0.062W
3040	5322 117 13056	8.2kΩ 1% 0.063W 0603
3041	4822 051 30333	33kΩ 5% 0.062W
3042	4822 051 30123	12kΩ 5% 0.1W
3043	4822 051 30109	10Ω 5% 0.062W
3044	4822 051 30471	47Ω 5% 0.062W
3045	4822 117 12971	15Ω 5% 0603 0.62W
3045	9965 000 23109	22Ω 5% 0603
3046	4822 117 12971	15Ω 5% 0603 0.62W
3046	9965 000 23109	22Ω 5% 0603
3047	4822 051 30479	47Ω 5% 0.062W
3048	4822 051 30272	2.7kΩ 5% 0.062W
3049	4822 051 30333	33kΩ 5% 0.062W
3050	4822 050 28204	820kΩ 1% 0.6W
3051	4822 051 30472	4.7Ω 5% 0.062W
3052	2322 704 63303	33kΩ 1% 0603
3052	2322 704 67502	7.5kΩ 1% 0.5W
3053	4822 050 26804	680kΩ 1% 0.6W
3054	4822 051 30472	4.7Ω 5% 0.062W
3055	4822 051 30221	220Ω 5% 0.062W
3056	4822 051 30221	220Ω 5% 0.062W
3057	4822 051 30221	220Ω 5% 0.062W
3058	4822 053 20565	5.6MΩ 5% 0.25W
3059	4822 051 30222	2.2kΩ 5% 0.062W
3061	4822 051 30683	68kΩ 5% 0.062W
3064	4822 051 30103	10kΩ 5% 0.062W
3065	4822 051 30682	6.8Ω 5% 0.062W
3065	4822 117 12925	47kΩ 1% 0.063W 0603
3065	4822 117 13632	100kΩ 1% 0603 0.62W
3066	4822 051 30103	10kΩ 5% 0.062W
3067	4822 051 30101	100Ω 5% 0.062W
3068	4822 051 30222	2.2kΩ 5% 0.062W
3070	4822 051 30102	1kΩ 5% 0.062W
3071	4822 051 30103	10kΩ 5% 0.062W
3075	4822 051 30102	1kΩ 5% 0.062W
3076	4822 050 22702	2.7kΩ 1% 0.6W
3077	4822 050 22702	2.7kΩ 1% 0.6W
3078	4822 050 22702	2.7kΩ 1% 0.6W
3079	4822 050 22702	2.7kΩ 1% 0.6W
3080	4822 050 22702	2.7kΩ 1% 0.6W
3081	4822 050 22702	2.7kΩ 1% 0.6W
3082	4822 050 22702	2.7kΩ 1% 0.6W
3100	4822 051 30109	10Ω 5% 0.062W
3292	4822 051 30561	560Ω 5% 0.062W
3400▲	2122 550 00158	VDR 1mA 612V
3401▲	4822 053 21475	4.7MΩ 5% 0.5W
3402▲	4822 053 21475	4.7MΩ 5% 0.5W
3403▲	4822 053 21475	4.7MΩ 5% 0.5W
3404	4822 116 83872	220Ω 5% 0.5W
3406▲	4822 052 10101	100Ω 5% 0.33W
3407▲	4822 052 10101	100Ω 5% 0.33W
3810	2322 257 41123	12kΩ 5% 5W
3999	4822 051 30102	1kΩ 5% 0.062W
3B92	4822 051 30561	560Ω 5% 0.062W
3D00▲	2122 550 00158	VDR 1mA 612V
3D04	4822 116 83872	220Ω 5% 0.5W
3H10	2322 257 41123	12kΩ 5% 5W
3U00▲	4822 052 10478	4.7Ω 5% 0.33W
3U01	4822 051 30101	100Ω 5% 0.062W
3U02	4822 051 30103	10kΩ 5% 0.062W
3U03	4822 117 13632	100kΩ 1% 0603 0.62W
3U04	4822 051 30273	27kΩ 5% 0.062W
3U05	4822 051 30333	33kΩ 5% 0.062W
3U06	4822 051 30103	10kΩ 5% 0.062W
3U07	4822 051 30103	10kΩ 5% 0.062W
3U08	4822 051 30331	330Ω 5% 0.062W
3U09	4822 051 30332	3.3Ω 5% 0.062W
3U10	4822 051 30471	47Ω 5% 0.062W
3U11	4822 051 30471	47Ω 5% 0.062W
3U12	4822 051 30153	15kΩ 5% 0.062W
3U13	4822 051 30103	10kΩ 5% 0.062W
3U14▲	4822 052 10101	100Ω 5% 0.33W
3U15▲	4822 052 10479	47Ω 5% 0.33W
3U16	4822 051 30222	2.2kΩ 5% 0.062W
3U17▲	4822 052 10101	100Ω 5% 0.33W
3U18▲	4822 052 10479	47Ω 5% 0.33W
3U19	4822 051 30222	2.2kΩ 5% 0.062W
3U20	4822 051 30222	2.2kΩ 5% 0.062W
3U21	9965 000 23109	22Ω 5% 0603
3U22	4822 051 30681	680Ω 5% 0.062W
3U23	4822 051 30153	15kΩ 5% 0.062W
3U24	5322 117 13033	15kΩ 1% 0.063W 0603
3U25	4822 117 12903	1.8kΩ 1% 0.063W 0603
3U26	4822 101 11383	Potm. 470Ω 30% linear
3U27	4822 117 13632	100kΩ 1% 0603 0.62W
3U28	4822 051 30102	1kΩ 5% 0.062W
3U29	4822 051 30222	2.2kΩ 5% 0.062W
3U30	4822 051 30183	18kΩ 5% 0.062W
3U31	4822 051 30223	22kΩ 5% 0.062W
3U32	4822 051 30103	10kΩ 5% 0.062W
3U34	4822 051 30102	1kΩ 5% 0.062W
3U38	4822 051 30333	33kΩ 5% 0.062W
3U40	5322 117 13056	8.2kΩ 1% 0.063W 0603
3U41	4822 051 30333	33kΩ 5% 0.062W
3U43	4822 051 30109	10Ω 5% 0.062W
3U45	9965 000 23109	22Ω 5% 0603
3U46	9965 000 23109	22Ω 5% 0603
3U47	4822 051 30479	47Ω 5% 0.062W
3U48	4822 051 30272	2.7kΩ 5% 0.062W
3U50	4822 050 28204	820kΩ 1% 0.6W
3U52	4822 051 30221	220Ω 5% 0.062W
3U53	4822 050 26804	680kΩ 1% 0.6W
3U55	4822 051 30221	220Ω 5% 0.062W
3U56	4822 051 30221	220Ω 5% 0.062W
3U57	4822 051 30221	220Ω 5% 0.062W
3U58	4822 053 20565	5.6MΩ 5% 0.25W
3U61	4822 051 30683	68kΩ 5% 0.062W
3U64	4822 051 30103	10kΩ 5% 0.062W
3U65	4822 051 30682	6.8Ω 5% 0.062W
3U65	4822 117 12925	47kΩ 1% 0.063W 0603
3U66	4822 051 30103	10kΩ 5% 0.062W
3U67	4822 051 30101	100Ω 5% 0.062W
3U68	4822 051 30222	2.2kΩ 5% 0.062W
3U70	4822 051 30102	1kΩ 5% 0.062W
3U71	4822 051 30103	10kΩ 5% 0.062W
3U75	4822 051 30102	1kΩ 5% 0.062W
9002	4822 051 30008	Jumper 0603
9009	4822 051 30008	Jumper 0603
9030	4822 051 30008	Jumper 0603
9047	4822 051 30008	Jumper 0603
9085	4822 051 30008	Jumper 0603
9U02	4822 051 30008	Jumper 0603
9U57	4822 051 30008	Jumper 0603

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5001▲	2422 531 02444	Transf. S13932-04Y
5002▲	3104 308 21111	Transf. BS51312-01
5002▲	8204 000 77321	Transf. 2652.0002
5004	4822 526 10704	Bead 50 Ω at 100MHz
5005	4822 157 11411	Bead 80Ω at 100MHz
5005	4822 526 10704	Bead 50 Ω at 100MHz
5007	4822 157 11411	Bead 80Ω at 100MHz
5007	4822 526 10704	Bead 50 Ω at 100MHz
5008	4822 157 11411	Bead 80Ω at 100MHz
5008	4822 526 10704	Bead 50 Ω at 100MHz
5009	4822 157 11411	Bead 80Ω at 100MHz
5010	4822 157 11411	Bead 80Ω at 100MHz
5013	4822 157 11411	Bead 80Ω at 100MHz
5013	4822 526 10704	Bead 50 Ω at 100MHz
5015	4822 157 11411	Bead 80Ω at 100MHz
5016	4822 157 11411	Bead 80Ω at 100MHz
5017	4822 526 10704	Bead 50 Ω at 100MHz
5025	4822 157 11411	Bead 80Ω at 100MHz
5026	4822 157 11411	Bead 80Ω at 100MHz
5026	4822 526 10704	Bead 50 Ω at 100MHz
5027	4822 157 11411	Bead 80Ω at 100MHz
5028	4822 157 11411	Bead 80Ω at 100MHz
5028	4822 526 10704	Bead 50 Ω at 100MHz
5029	4822 526 10704	Bead 50 Ω at 100MHz
5030	4822 526 10704	Bead 50 Ω at 100MHz
5031	4822 526 10704	Bead 50 Ω at 100MHz
5032	4822 526 10704	Bead 50 Ω at 100MHz
5033	4822 526 10704	Bead 50 Ω at 100MHz
5034	4822 526 10704	Bead 50 Ω at 100MHz
5040	4822 157 11411	Bead 80Ω at 100MHz
5041	4822 526 10704	Bead 50 Ω at 100MHz
5291	2422 536 00776	33µH 10%
5292	2422 536 00776	33µH 10%
5293	2422 536 00776	33µH 10%
5400▲	4822 157 11523	Line filter 5mH/2A
5401▲	2422 549 43291	Filter 47mH 2A
5402▲	2422 549 43291	Filter 47mH 2A
5403▲	3104 308 21101	Coil DTH40203H65
5403▲	3104 308 21191	Coil DTH40323H65
5B91	4822 157 71467	39µH 10%
5B92	4822 157 71467	39µH 10%
5B93	4822 157 71467	39µH 10%
5D00▲	4822 157 11523	Line filter 5mH/2A
5D01▲	2422 549 43291	Filter 47mH 2A
5D02▲	2422 549 43291	Filter 47mH 2A
5D03▲	3104 308 21101	Coil DTH40203H65
5U01▲	2422 531 02444	Transf. S13932-04Y
5U02▲	3104 308 21111	Transf. BS51312-01
5U04	4822 526 10704	Bead 50 Ω at 100MHz
5U05	4822 157 11411	Bead 80Ω at 100MHz
5U07	4822 157 11411	Bead 80Ω at 100MHz
5U08	4822 157 11411	Bead 80Ω at 100MHz
5U09	4822 157 11411	Bead 80Ω at 100MHz
5U10	4822 157 11411	Bead 80Ω at 100MHz
5U13	4822 157 11411	Bead 80Ω at 100MHz
5U15	4822 157 11411	Bead 80Ω at 100MHz
5U16	4822 157 11411	Bead 80Ω at 100MHz
5U17	4822 526 10704	Bead 50 Ω at 100MHz
5U25	4822 157 11411	Bead 80Ω at 100MHz
5U26	4822 157 11411	Bead 80Ω at 100MHz
5U40	4822 157 11411	Bead 80Ω at 100MHz
5U41	4822 526 10704	Bead 50 Ω at 100MHz

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6001	4822 130 11397	BAS316
6002	4822 130 11397	BAS316
6003	4822 130 11397	BAS316
6004	4822 130 11397	BAS316
6004	4822 130 80622	BAT54
6005	4822 130 11397	BAS316
6005	4822 130 80622	BAT54
6006	4822 130 11397	BAS316
6007	4822 130 11397	BAS316
6008	4822 130 11397	BAS316
6009	4822 130 11152	UDZ18B
6010	4822 130 11397	BAS316
6011	4822 130 11397	BAS316
6012	9322 197 30685	SML4744
6013	9322 197 30685	SML4744
6014	4822 130 11596	BYW29EX-200
6017	4822 130 11397	BAS316
6020	4822 130 11397	BAS316
6021	9322 192 03687	STPS20H100CFP
6021	9322 207 11687	STPS20L45CT
6022	4822 130 11148	UDZ4.7B
6023	4822 130 11397	BAS316
6025	9322 207 11687	STPS20L45CT
6027	4822 130 11397	BAS316
6028	4822 130 11397	BAS316
6030	4822 130 11397	BAS316
6044	9322 205 63687	STPS20L40CT
6044	9322 207 11687	STPS20L45CT
6045	9322 207 11687	STPS20L45CT
6051	4822 130 11397	BAS316
6054	4822 130 11551	UDZS10B
6077	9322 202 55685	BYG22D
6078	5322 130 31938	BYV27-200
6078	9322 202 55685	BYG22D
6079	9322 202 55685	BYG22D
6080	9322 202 55685	BYG22D
6081	9340 548 67115	PDZ22B
6156	9322 099 61685	BYG10J
6157	9322 099 61685	BYG10J
6158	9322 099 61685	BYG10J
6159	9322 099 61685	BYG10J
6291	4822 130 11572	STPS8H100F
6293	4822 130 11572	STPS8H100F
6460	4822 130 11397	BAS316

6461	4822 130 11397	BAS316
6506	4822 130 83147	DF06M
6807	9322 199 39682	GBJ6J-B12
6807	9322 199 74682	GBJ6J-B15
6B91	4822 130 11596	BYW29EX-200
6B93	4822 130 11596	BYW29EX-200
6D60	4822 130 11397	BAS316
6D61	4822 130 11397	BAS316
6H07	9322 199 74682	GBJ6J-B15
6U01	4822 130 11397	BAS316
6U02	4822 130 11397	BAS316
6U03	4822 130 11397	BAS316
6U04	4822 130 11397	BAS316
6U04	4822 130 80622	BAT54
6U05	4822 130 11397	BAS316
6U05	4822 130 80622	BAT54
6U06	4822 130 11397	BAS316
6U07	4822 130 11397	BAS316
6U08	4822 130 11397	BAS316
6U09	4822 130 11152	UDZ18B
6U10	4822 130 11397	BAS316
6U11	4822 130 11397	BAS316
6U12	9322 197 30685	SML4744
6U13	9322 197 30685	SML4744
6U17	4822 130 11397	BAS316
6U20	4822 130 11397	BAS316
6U21	9322 192 03687	STPS20H100CFP
6U22	4822 130 11148	UDZ4.7B
6U23	4822 130 11397	BAS316
6U27	4822 130 11397	BAS316
6U28	4822 130 11397	BAS316
6U51	4822 130 11397	BAS316
6U77	9322 202 55685	BYG22D
6U78	5322 130 31938	BYV27-200
6U79	9322 202 55685	BYG22D
6U81	9340 548 67115	PDZ22B

7001	9322 108 21682	MC34067P
7002	9322 149 04682	TCET1102
7004	3198 010 42310	BC847BW
7005	9322 192 18687	STP15NK50ZFP
7005	9322 205 26687	FQPF18N50V2
7006	9322 192 18687	STP15NK50ZFP
7006	9322 205 26687	FQPF18N50V2
7007	3198 010 42320	BC857BW
7008	3198 010 42320	BC857BW
7009	3198 010 42320	BC857BW
7010	4822 209 16406	TL431ACD
7010	9322 125 09668	TL431AID
7017	3198 010 42320	BC857BW
7018	3198 010 42310	BC847BW
7030	3198 010 42310	BC847BW
7031	3198 010 42310	BC847BW
7U01	9322 108 21682	MC34067P
7U02	9322 149 04682	TCET1102
7U04	3198 010 42310	BC847BW
7U05	9322 192 18687	STP15NK50ZFP
7U06	9322 192 18687	STP15NK50ZFP
7U07	3198 010 42320	BC857BW
7U08	3198 010 42320	BC857BW
7U09	3198 010 42320	BC857BW
7U10	4822 209 16406	TL431ACD
7U17	3198 010 42320	BC857BW
7U18	3198 010 42310	BC847BW
7U30	3198 010 42310	BC847BW

Ambi Light Inverter Panel [AL] (FTL2.1E Top)

Various

0615	3104 317 09401	SW (check Prod. Survey)
1010▲	2422 086 00657	Fuse 3A 125V F SMD
1050	2422 543 01431	Xtal 20MHz 16pF
1M10	2422 025 09406	Connector 4p m
1M11	2422 025 12485	Connector 11p m
1M12	4822 267 10735	Connector 3p m
1M13	2422 025 12485	Connector 11p m
1M14	4822 267 10735	Connector 3p m
1M48	2422 025 10768	Connector 3p m

2001	2020 012 00018	1000µF 20% 16V
2002	2238 586 59812	100nF 20% 50V 0603
2003	2020 552 96618	1nF 10% 50V 0402
2004	2020 552 96618	1nF 10% 50V 0402
2005	3198 034 01590	15pF 1% 50V 0402
2006	3198 034 01590	15pF 1% 50V 0402
2007	4822 126 14238	2.2nF 50V 0603
2008	4822 126 14238	2.2nF 50V 0603
2009	4822 126 14238	2.2nF 50V 0603
2010	4822 126 14238	2.2nF 50V 0603
2011	4822 126 14238	2.2nF 50V 0603
2012	4822 126 14238	2.2nF 50V 0603
2021	2020 552 96683	220nF 10% 50V
2023	2020 552 96683	220nF 10% 50V
2024	2020 552 96683	220nF 10% 50V
2030	2020 552 96683	220nF 10% 50V
2032	2020 552 96683	220nF 10% 50V
2033	2020 552 96683	220nF 10% 50V
2040	2020 552 96683	220nF 10% 50V
2043	2020 552 96683	220nF 10% 50V
2045	2020 552 96683	220nF 10% 50V
2050	2020 552 96683	220nF 10% 50V
2052	2020 552 96683	220nF 10% 50V
2055	2020 552 96683	220nF 10% 50V
2060	2020 552 96683	220nF 10% 50V
2062	2020 552 96683	220nF 10% 50V
2064	2020 552 96683	220nF 10% 50V
2071	2020 552 96683	220nF 10% 50V
2074	2020 552 96683	220nF 10% 50V
2075	2020 552 96683	220nF 10% 50V

3001	4822 117 13545	100Ω 1% 0402
3002	4822 117 13545	100Ω 1% 0402
3003	4822 117 13596	220Ω 5% 0.01W 0402
3004	4822 051 20471	470Ω 5% 0.1W
3005	4822 051 20561	560Ω 5% 0.1W
3006	2322 762 60102	1kΩ 5% 2512
3007	2322 762 60102	1kΩ 5% 2512
3008	4822 051 20471	470Ω 5% 0.1W
3009	4822 051 20561	560Ω 5% 0.1W
3010	2322 762 60102	1kΩ 5% 2512
3011	2322 762 60102	1kΩ 5% 2512
3012	4822 051 20471	470Ω 5% 0.1W
3013	4822 051 20561	560Ω 5% 0.1W
3014	2322 762 60102	1kΩ 5% 2512
3015	2322 762 60102	1kΩ 5% 2512
3016	3198 031 04720	4.7kΩ 5% 0402
3017	3198 031 04720	4.7kΩ 5% 0402
3018	3198 031 04720	4.7kΩ 5% 0402
3019	3198 031 04720	4.7kΩ 5% 0402
3020	3198 031 04720	4.7kΩ 5% 0402
3022	4822 117 13545	100Ω 1% 0402
3023	4822 117 13545	100Ω 1% 0402
3024	3198 031 04720	4.7kΩ 5% 0402
3025	3198 031 04720	4.7kΩ 5% 0402
3028	4822 117 13606	10kΩ 5% 0.01W 0402
3029	3198 031 04720	4.7kΩ 5% 0402
3030	3198 031 04720	4.7kΩ 5% 0402
3031	3198 031 04720	4.7kΩ 5% 0402
3999	3198 021 31820	1.8kΩ 5% 0.062W 0603
3999	4822 051 30102	1kΩ 5% 0.062W

5002	2422 536 00923	22µH 10% LHL10
5004▲	3104 308 21271	Transf. BD21416-00
5005▲	3104 308 21271	Transf. BD21416-00
5006▲	3104 308 21271	Transf. BD21416-00
5007	2422 536 00923	22µH 10% LHL10
5008	2422 536 00923	22µH 10% LHL10

6000	4822 130 11397	BAS316
6001	4822 130 11397	BAS316
6002	4822 130 11397	BAS316
6003	4822 130 11397	BAS316
6004	4822 130 11397	BAS316
6005	4822 130 11397	BAS316
6006	4822 130 11152	UDZ18B
6007	4822 130 11152	UDZ18B
6008	4822 130 11152	UDZ18B
6009	4822 130 11152	UDZ18B
6010	4822 130 11152	UDZ18B
6011	4822 130 11152	UDZ18B

7001		For SW see item 0615
7002	9322 202 58668	LD1117DT50
7009	3198 010 42310	BC847BW
7010	3198 010 42310	BC847BW
7011	3198 010 42310	BC847BW
7015	9322 214 20668	SI4946EY
7016	9322 214 20668	SI4946EY
7017	9322 214 20668	SI4946EY
7018	3198 010 42310	BC847BW
7019	3198 010 42310	BC847BW
7020	3198 010 42310	BC847BW

Small Signal Board [B] (FTL2.1E Top)

Various

0601	3104 317 08781	SW (see Prod. Survey)
0602	3104 317 07861	SW (see Prod. Survey)
0603	3104 317 06591	SW (see Prod. Survey)
0605	3104 317 47611	SW (see Prod. Survey) Only for 32-in Sharp LCD
0605	3104 317 47621	SW (see Prod. Survey) For all, except 32" Sharp
1000	2422 086 11092	Fuse 500mA 50V F SMD
1001	2422 543 89022	Xtal 6MHz 20p
1305	2422 543 01184	Xtal 4.433619MHz 20p
1308	2422 543 01183	Xtal 3.579545MHz 16p
1403	2422 086 11092	Fuse 500mA 50V F SMD
1404	2422 127 00543	Switch 1p 2 pos
1407	2422 549 44324	Filt. 5.5/5.74MHz
1408	2422 549 44372	SAW 38.9MHz K3953L
1409	2422 549 44369	SAW 38.9MHz K9656L
1702	2422 540 98456	Resonator 12MHz
1A00	2422 543 89019	Xtal 18.432MHz 12p
1D01	2422 033 00515	Socket DVI-I 29p f
1E02	2422 025 17274	Connector 10p m
1E04	2422 025 17103	Connector 3p m SMD
1G50	2422 025 18427	Connector 31p f
1I01	2422 025 18133	Socket SCART
1I04	2422 025 18133	Socket SCART
1I05	2422 026 05054	Soc CINCH 2p f WhRd
1I05	2422 026 05539	Socket Cinch 2p f WhRd
1I06	2422 026 05527	Socket Cinch 2p f
1I07	2422 026 05054	Soc CINCH 2p f WhRd
1I53	2422 549 45325	Bead 67Ω at 100MHz
1I56	2422 549 45325	Bead 67Ω at 100MHz
1I57	2422 549 45325	Bead 67Ω at 100MHz
1I59	2422 549 45325	Bead 67Ω at 100MHz
1I63▲	2422 086 00623	Fuse 3A T 125V
1I79▲	2422 086 00623	Fuse 3A T 125V
1M01	2422 025 10768	Connector 3p m
1M03	2422 025 10771	Connector 10p m
1M07	4822 267 10637	Connector 5p
1M15	4822 267 10748	Connector 3p
1M17	2422 025 17765	Connector 7p m
1M20	2422 025 10772	Connector 12p m
1M36	2422 025 10655	Connector 11p m
1M46	2422 025 10655	Connector 11p m
1M48	2422 025 10768	Connector 3p m
1M49	2422 025 10768	Connector 3p m
1M52	2422 025 10769	Connector 9p m
1P00	2422 543 01184	Xtal 4.433619MHz 20p
1P03	2422 543 01183	Xtal 3.579545MHz 16p
1P04	2422 549 44369	SAW 38.9MHz K9656L
1P06	2422 549 44372	SAW 38.9MHz K3953L
1P09	2422 549 44324	Filt. 5.5/5.74MHz
1P10	4822 242 81299	Filter 6.5 MHz
1P11	4822 242 10314	Filter 5.5 MHz
1P12	4822 242 81265	Filter 6.0 MHz
1T01	3139 147 20201	Tuner UV1318ST/AIH-3
1T02	3139 147 19801	Tuner UV1318S/A IH -3
1U01▲	2422 086 11112	Fuse 1A T 125V
8192	3104 311 07711	Wire phono M/170/IEC
8220	3104 311 07281	Cable 12P/680/12P
8301	3104 311 06831	Cable 3P/680/3P
8301	3104 311 07011	Cable 3P/820/3P
8303	3104 311 06511	Cable 10p/280/10p
8303	3104 311 07841	Cable 10P/220/10P
8303	3104 311 07971	Cable 10P/280/10P
8307	3104 311 05691	Cable 5p/100/5p
8308	3104 311 06751	Cable 2P3/120/Inlet
8308	3104 311 06951	Cable 2P3/180/2P
8308	3104 311 08061	Cable 2P3/120/Inlet
8317	3104 311 07871	Cable 7P/180/7P
8320	3104 311 06541	Cable 10P/560/10P
8320	3104 311 07291	Cable 12P/820/12P
8336	3104 311 07001	Cable 11P/400/11P
8336	3104 311 07111	Cable 11P/340/11P
8336	3104 311 07131	Cable 11P/340/11P
8336	3104 311 07461	Cable 11P/560/11P
8336	3104 311 07471	Cable 11P/680/11P
8337	3104 311 06991	Cable 11P/280/11P
8337	3104 311 07451	Cable 11P/220/11P
8346	3104 311 06991	Cable 11P/280/11P
8346	3104 311 07401	Cable 11P/180/11P
8348	3104 311 00351	Cable 3p/400/3p
8348	3104 311 02141	Cable 3P/480/3P

8348	3104 311 07781	Cable 3p/480/3p Wh
8349	3104 311 07781	Cable 3p/480/3p Wh
8349	3104 311 08871	Cable 3P/480/3P
8350	3104 311 07601	Cable 5P/1K0/5P
8350	3104 311 07961	Cable 5P/1K2/5P
8352	3104 311 06061	Cable 9P/180/9P
8352	3104 311 06811	Cable 9P/340/9P
8436	3104 311 07471	Cable 11P/680/11P

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2002	3198 034 02790	47pF 1% 50V 0402
2003	2238 780 15654	220nF 10% 16V 0805
2004	2238 780 15654	220nF 10% 16V 0805
2005	2238 586 59812	100nF 20% 50V 0603
2006	2238 586 59812	100nF 20% 50V 0603
2007	2238 586 59812	100nF 20% 50V 0603
2008	2238 586 59812	100nF 20% 50V 0603
2010	3198 034 04790	27pF 1% 50V 0402
2011	3198 034 04790	27pF 1% 50V 0402
2012	3198 034 04790	27pF 1% 50V 0402
2013	2020 021 91557	100µF 20% 16V
2016	4822 124 12095	100µF 20% 16V
2017	2238 586 59812	100nF 20% 50V 0603
2018	4822 126 14324	33pF 5% 50V 0402
2019	2238 586 59812	100nF 20% 50V 0603
2020	2238 869 15221	220pF 1% 50V 0402
2022	2238 586 59812	100nF 20% 50V 0603
2023	2238 586 59812	100nF 20% 50V 0603
2024	2238 586 59812	100nF 20% 50V 0603
2025	2238 586 59812	100nF 20% 50V 0603
2026	2238 586 59812	100nF 20% 50V 0603
2027	2238 586 59812	100nF 20% 50V 0603
2028	2238 586 59812	100nF 20% 50V 0603
2029	2238 586 59812	100nF 20% 50V 0603
2031	2238 586 59812	100nF 20% 50V 0603
2033	2238 869 75829	82pF 5% 50V 0402
2034	2238 869 75829	82pF 5% 50V 0402
2035	2238 869 75829	82pF 5% 50V 0402
2036	2238 869 75829	82pF 5% 50V 0402
2037	2238 869 75829	82pF 5% 50V 0402
2038	2238 586 59812	100nF 20% 50V 0603
2039	2238 586 59812	100nF 20% 50V 0603
2040	2238 586 59812	100nF 20% 50V 0603
2063	2238 586 59812	100nF 20% 50V 0603
2067	2238 586 59812	100nF 20% 50V 0603
2074	2238 586 59812	100nF 20% 50V 0603
2075	2238 586 59812	100nF 20% 50V 0603
2305	2238 586 59812	100nF 20% 50V 0603
2316	2238 586 59812	100nF 20% 50V 0603
2322	2238 586 59812	100nF 20% 50V 0603
2324	5322 126 11583	10nF 10% 50V 0603
2350	2238 586 59812	100nF 20% 50V 0603
2351	2238 586 59812	100nF 20% 50V 0603
2352	2238 586 59812	100nF 20% 50V 0603
2356	2238 586 59812	100nF 20% 50V 0603
2357	2238 586 59812	100nF 20% 50V 0603
2358	3198 035 03320	3.3nF 5% 50V 0402
2359	3198 034 01590	15pF 1% 50V 0402
2360	3198 034 01280	1.2pF 1% 50V 0402
2361	3198 034 01280	1.2pF 1% 50V 0402
2362	3198 034 01290	12pF 1% 50V 0402
2365	2238 586 59812	100nF 20% 50V 0603
2366	2238 586 59812	100nF 20% 50V 0603
2367	2238 586 59812	100nF 20% 50V 0603
2368	2238 586 59812	100nF 20% 50V 0603
2369	2238 586 59812	100nF 20% 50V 0603
2370	2238 586 59812	100nF 20% 50V 0603
2371	2020 552 96793	4.7nF 10% 50V 0402
2371	3198 035 14720	4.7nF 5% 25V 0402
2372	2022 552 05679	1µF 10% 16V 0805
2373	2238 586 59812	100nF 20% 50V 0603
2374	2022 552 05679	1µF 10% 16V 0805
2375	2238 787 15641	22nF 5% 16V 0402
2376	2238 586 59812	100nF 20% 50V 0603
2377	2020 021 91557	100µF 20% 16V
2378	2238 586 59812	100nF 20% 50V 0603
2384	2238 586 59812	100nF 20% 50V 0603
2387	2022 552 05679	1µF 10% 16V 0805
2390	2238 586 59812	100nF 20% 50V 0603
2391	2238 586 59812	100nF 20% 50V 0603
2392	2022 552 05679	1µF 10% 16V 0805
2394	2022 552 05679	1µF 10% 16V 0805
2403	2238 586 59812	100nF 20% 50V 0603
2404	2022 552 05679	1µF 10% 16V 0805
2405	2020 552 96793	4.7nF 10% 50V 0402
2405	3198 035 14720	4.7nF 5% 25V 0402
2406	2238 869 15221	220pF 1% 50V 0402
2407	4822 126 14524	68pF 5% 50V 0402
2408	3198 034 03380	3.3pF 1% 50V 0402
2409	2022 552 05679	1µF 10% 16V 0805
2410	2020 021 91557	100µF 20% 16V
2411	2238 586 59812	100nF 20% 50V 0603
2412	2020 552 96793	4.7nF 10% 50V 0402
2412	3198 035 14720	4.7nF 5% 25V 0402
2414	2020 021 91557	100µF 20% 16V
2415	2238 586 59812	100nF 20% 50V 0603
2416	2022 552 05679	1µF 10% 16V 0805
2417	4822 126 14583	470nF 10% 16V 0805
2418	3198 034 05680	5.6pF 1% 50V 0402
2425	2020 021 91557	100µF 20% 16V
2432	2238 586 59812	100nF 20% 50V 0603
2433	2238 586 59812	100nF 20% 50V 0603
2434	2238 586 59812	100nF 20% 50V 0603
2435	2020 552 96618	1nF 10% 50V 0402
2436	2020 552 96448	1µF 10% 16V 0805
2707	3198 034 02790	47pF 1% 50V 0402
2707	4822 126 14519	22pF 5% 50V 0402
2708	2238 586 59812	100nF 20% 50V 0603
2709	2238 586 59812	100nF 20% 50V 0603
2710	2238 586 59812	100nF 20% 50V 0603
2711	2238 586 59812	100nF 20% 50V 0603
2712	2238 586 59812	100nF 20% 50V 0603
2713	4822 126 14519	22pF 5% 50V 0402
2714	4822 126 14519	22pF 5% 50V 0402
2715	2020 021 91854	10µF 20% 16V
2716	2238 586 59812	100nF 20% 50V 0603
2717	2238 586 59812	100nF 20% 50V 0603
2718	3198 034 01590	15pF 1% 50V 0402
2719	3198 034 01590	15pF 1% 50V 0402
2720	3198 034 01590	15pF 1% 50V 0402
2721	2238 869 15101	100pF 5% 50V 0402
2722	2238 869 15101	100pF 5% 50V 0402
2723	2238 586 59812	100nF 20% 50V 0603
2725	2238 586 59812	100nF 20% 50V 0603
2726	2238 586 59812	100nF 20% 50V 0603
2727	2238 586 59812	100nF 20% 50V 0603
2728	2020 021 91854	10µF 20% 16V
2729	2238 586 59812	100nF 20% 50V 0603
2730	2020 021 91557	100µF 20% 16V
2731	2238 586 59812	100nF 20% 50V 0603
2732	2020 552 96618	1nF 10% 50V 0402
2733	2238 586 59812	100nF 20% 50V 0603
2734	2238 586 59812	100nF 20% 50V 0603
2735	2238 586 59812	100nF 20% 50V 0603
2736	2238 586 59812	100nF 20% 50V 0603
2738	2238 586 59812	100nF 20% 50V 0603
2739	2020 021 91557	100µF 20% 16V
2740	2238 787 15641	22nF 5% 16V 0402
2741	2238 787 15641	22nF 5% 16V 0402
2742	2238 787 15641	22nF 5% 16V 0402
2743	2238 586 59812	100nF 20% 50V 0603
2744	2238 586 59812	100nF 20% 50V 0603
2745	2238 586 59812	100nF 20% 50V 0603
2746	2238 586 59812	100nF 20% 50V 0603
2747	4822 126 14524	68pF 5% 50V 0402
2748	2238 586 59812	100nF 20% 50V 0603
2749	2238 586 59812	100nF 20% 50V 0603
2750	2020 552 96618	1nF 10% 50V 0402
2750	2238 586 59812	100nF 20% 50V 0603
2751	2020 552 96618	1nF 10% 50V 0402
2751	2238 586 59812	100nF 20% 50V 0603
2752	2020 552 96618	1nF 10% 50V 0402
2752	2238 586 59812	100nF 20% 50V 0603
2753	2020 552 96618	1nF 10% 50V 0402
2753	2238 586 59812	100nF 20% 50V 0603
2754	2020 552 96618	1nF 10% 50V 0402
2755	2020 552 96618	1nF 10% 50V 0402
2755	2238 586 59812	100nF 20% 50V 0603
2756	2020 552 96618	1nF 10% 50V 0402
2756	2238 586 59812	100nF 20% 50V 0603
2757	2238 787 15641	22nF 5% 16V 0402
2759	2020 552 96618	1nF 10% 50V 0402
2759	2238 586 59812	100nF 20% 50V 0603
2760	2238 586 59812	100nF 20% 50V 0603
2760	2238 787 15641	22nF 5% 16V 0402
2761	2238 586 59812	100nF 20% 50V 0603
2761	2238 787 15641	22nF 5% 16V 0402
2762	2238 586 59812	100nF 20% 50V 0603
2762	2238 787 15641	22nF 5% 16V 0402
2763	2238 586 59812	100nF 20% 50V 0603
2763	2238 787 15641	22nF 5% 16V 0402
2764	2238 586 59812	100nF 20% 50V 0603
2764	2238 787 15641	22nF 5% 16V 0402
2768	2238 586 59812	100nF 20% 50V 0603
2768	2238 787 15641	22nF 5% 16V 0402
2769	2020 552 96618	1nF 10% 50V 0402
2769	2238 586 59812	100nF 20% 50V 0603
2770	2020 552 96618	1nF 10% 50V 0402
2770	2238 586 59812	100nF 20% 50V 0603
2771	2020 552 96618	1nF 10% 50V 0402
2771	2238 586 59812	100nF 20% 50V 0603
2772	2238 586 59812	100nF 20% 50V 0603
2772	2238 787 15641	22nF 5% 16V 0402
2773	2020 552 96618	1nF 10% 50V 0402
2773	2238 586 59812	100nF 20% 50V 0603
2777	2020 552 96618	1nF 10% 50V 0402
2777	2238 586 59812	100nF 20% 50V 0603
2778	2020 552 96618	1nF 10% 50V 0402
2778	2238 586 59812	100nF 20% 50V 0603
2780	2020 552 96618	1nF 10% 50V 0402
2780	2238 586 59812	100nF 20% 50V 0603
2781	2020 552 96618	1nF 10% 50V 0402
2781	2238 586 59812	100nF 20% 50V 0603
2782	2020 552 96618	1nF 10% 50V 0402
2782	2238 586 59812	100nF 20% 50V 0603
2784	2238 586 59812	100nF 20% 50V 0603
2784	2238 787 15641	22nF 5% 16V 0402
2785	2238 586 59812	100nF 20% 50V 0603
2785	2238 787 15641	22nF 5% 16V 0402
2788	2238 586 59812	100nF 20% 50V 0603
2789	2238 586 59812	100nF 20% 50V 0603
2790	2238 586 59812	100nF 20% 50V 0603
2791	2238 586 59812	100nF 20% 50V 0603
2792	2238 586 59812	100nF 20% 50V 0603
2793	2238 586 59812	100nF 20% 50V 0603
2794	2020 552 96618	1nF 10% 50V 0402
2794	2238 586 59812	100nF 20% 50V 0603
2795	2020 552 96618	1nF 10% 50V 0402
2795	2238 586 59812	100nF 20% 50V 0603
2796	2020 552 96618	1nF 10% 50V 0402
2796	2238 586 59812	100nF 20% 50V 0603
2797	2020 552 96618	1nF 10% 50V 0402
2797	2238 586 59812	100nF 20% 50V 0603
2798	2020 552 96618	1nF 10% 50V 0402
2798	2238 586 59812	100nF 20% 50V 0603
2799	2020 552 96618	1nF 10% 50V 0402
2799	2238 586 59812	100nF 20% 50V 0603
2800	2238 586 59812	100nF 20% 50V 0603
2802	2238 586 59812	100nF 20% 50V 0603
2804	2238 586 59812	100nF 20% 50V 0603
2805	2020 552 96618	1nF 10% 50V 0402
2805	2238 586 59812	100nF 20% 50V 0603
2806	2238 586 59812	100nF 20% 50V 0603
2807	2238 586 59812	100nF 20% 50V 0603
2808	2020 552 96618	1nF 10% 50V 0402
2808	2238 586 59812	100nF 20% 50V 0603
2809	2020 552 96618	1nF 10% 50V 0402
2809	2238 586 59812	100nF 20% 50V 0603
2810	2238 586 59812	100nF 20% 50V 0603
2811	2238 586 59812	100nF 20% 50V 0603
2812	3198 031 02290	22Ω 5% 0.1W 0402
2813	2238 586 59812	100nF 20% 50V 0603
2817	2238 586 59812	100nF 20% 50V 0603
2819	2238 586 59812	100nF 20% 50V 0603
2821	2238 586 59812	100nF 20% 50V 0603
2821	2238 787 15641	22nF 5% 16V 0402
2822	2238 586 59812	100nF 20% 50V 0603
2822	2238 787 15641	22nF 5% 16V 0402
2823	2238 586 59812	100nF 20% 50V 0603
2824	2238 586 59812	100nF 20% 50V 0603
2825	2238 586 59812	100nF 20% 50V 0603
2826	2238 586 59812	100nF 20% 50V 0603
2827	2238 586 59812	100nF 20% 50V 0603
2829	2020 021 91557	100µF 20% 16V
2830	2238 586 59812	100nF 20% 50V 0603
2831	2238 586 59812	100nF 20% 50V 0603
2832	2238 586 59812	100nF 20% 50V 0603
2833	2238 586 59812	100nF 20% 50V 0603
2834	2238 586 59812	100nF 20% 50V 0603
2835	2238 586 59812	100nF 20% 50V 0603
2836	2238 586 59812	100nF 20% 50V 0603
2837	2238 869 15101	100pF 5% 50V 0402
2838	2238 869 15101	100pF 5% 50V 0402
2839	2238 869 15101	100pF 5% 50V 0402
2840	4822 126 14519	22pF 5% 50V 0402
2841	4822 126 14519	22pF 5% 50V 0402
2844	2238 586 59812	100nF 20% 50V 0603
2845	2238 586 59812	100nF 20% 50V 0603
2846	2238 586 59812	100nF 20% 50V 0603
2847	2020 021 91854	10µF 20% 16V
2848	2238 586 59812	100nF 20% 50V 0603
2849	2238 586 59812	100nF 20% 50V 0603
2850	2238 586 59812	100nF 20% 50V 0603
2851	2238 586 59812	100nF 20% 50V 0603
2852	2238 586 59812	100nF 20% 50V 0603
2853	2238 586 59812	100nF 20% 50V 0603
2854	2238 586 59812	100nF 20% 50V 0603
2855	2238 586 59812	100nF 20% 50V 0603
2856	2238 586 59812	100nF 20% 50V 0603
2857	2238 586 59812	100nF 20% 50V 0603
2858	2238 586 59812	100nF 20% 50V 0603
2859	2238 586 59812	100nF 20% 50V 0603
2860	2238 586 59812	100nF 20% 50V 0603
2861	2238 586 59812	100nF 20% 50V 0603
2862	2238 586 59812	100nF 20% 50V 0603
2863	2238 586 59812	100nF 20% 50V 0603
2864	2238 586 59812	100nF 20% 50V 0603
2865	2238 586 59812	100nF 20% 50V 0603
2866	2238 586 59812	100nF 20% 50V 0603
2867	2238 586 59812	100nF 20% 50V 0603

2868	2238 586 59812	100nF 20% 50V 0603
2869	2238 586 59812	100nF 20% 50V 0603
2870	2238 586 59812	100nF 20% 50V 0603
2871	2020 021 91557	100µF 20% 16V
2872	2238 586 59812	100nF 20% 50V 0603
2873	2238 586 59812	100nF 20% 50V 0603
2874	2238 586 59812	100nF 20% 50V 0603
2875	2238 586 59812	100nF 20% 50V 0603
2876	2238 586 59812	100nF 20% 50V 0603
2877	2238 586 59812	100nF 20% 50V 0603
2878	2238 586 59812	100nF 20% 50V 0603
2879	2238 586 59812	100nF 20% 50V 0603
2880	2238 586 59812	100nF 20% 50V 0603
2881	3198 034 02790	47pF 1% 50V 0402
2882	2238 586 59812	100nF 20% 50V 0603
2883	2238 586 59812	100nF 20% 50V 0603
2884	2238 586 59812	100nF 20% 50V 0603
2885	2238 586 59812	100nF 20% 50V 0603
2886	2238 586 59812	100nF 20% 50V 0603
2887	2238 586 59812	100nF 20% 50V 0603
2888	2238 586 59812	100nF 20% 50V 0603
2889	2020 021 91557	100µF 20% 16V
2890	2238 586 59812	100nF 20% 50V 0603
2891	2238 586 59812	100nF 20% 50V 0603
2892	2238 586 59812	100nF 20% 50V 0603
2893	2238 586 59812	100nF 20% 50V 0603
2894	2238 586 59812	100nF 20% 50V 0603
2895	2020 021 91854	10µF 20% 16V
2896	2020 021 91557	100µF 20% 16V
2897	2238 586 59812	100nF 20% 50V 0603
2898	2020 021 91854	10µF 20% 16V
2899	2238 586 59812	100nF 20% 50V 0603
2914	2238 586 59812	100nF 20% 50V 0603
2917	2238 586 59812	100nF 20% 50V 0603
2919	2020 021 91557	100µF 20% 16V
2920	2238 586 59812	100nF 20% 50V 0603
2921	2238 586 59812	100nF 20% 50V 0603
2922	2020 552 96628	10nF 10% 16V 0402
2923	2020 552 96628	10nF 10% 16V 0402
2924	2238 586 59812	100nF 20% 50V 0603
2925	2020 552 96618	1nF 10% 50V 0402
2926	2238 869 15101	100pF 5% 50V 0402
2927	2238 869 15101	100pF 5% 50V 0402
2928	2238 869 15101	100pF 5% 50V 0402
2937	2020 021 91557	100µF 20% 16V
2939	2020 021 91557	100µF 20% 16V
2A00	2020 552 96618	1nF 10% 50V 0402
2A01	2020 552 96618	1nF 10% 50V 0402
2A02	2022 552 05679	1µF 10% 16V 0805
2A03	2020 021 91557	100µF 20% 16V
2A04	2022 552 05679	1µF 10% 16V 0805
2A05	2020 021 91557	100µF 20% 16V
2A06	2020 552 96618	1nF 10% 50V 0402
2A07	2020 552 96618	1nF 10% 50V 0402
2A08	2022 552 05679	1µF 10% 16V 0805
2A10	2238 586 59812	100nF 20% 50V 0603
2A11	2238 586 59812	100nF 20% 50V 0603
2A14	2020 552 96618	1nF 10% 50V 0402
2A15	2020 021 91557	100µF 20% 16V
2A16	2238 586 59812	100nF 20% 50V 0603
2A17	2020 552 96618	1nF 10% 50V 0402
2A18	2020 021 91557	100µF 20% 16V
2A20	2022 552 05679	1µF 10% 16V 0805
2A21	2238 586 59812	100nF 20% 50V 0603
2A22	2238 586 59812	100nF 20% 50V 0603
2A23	2238 586 59812	100nF 20% 50V 0603
2A25	2238 869 15101	100pF 5% 50V 0402
2A26	2022 552 05679	1µF 10% 16V 0805
2A26	2238 586 59812	100nF 20% 50V 0603
2A27	2020 552 96618	1nF 10% 50V 0402
2A29	2238 869 15101	100pF 5% 50V 0402
2A30	2238 869 15101	100pF 5% 50V 0402
2A31	2022 552 05679	1µF 10% 16V 0805
2A31	2238 586 59812	100nF 20% 50V 0603
2A32	2238 869 15101	100pF 5% 50V 0402
2A33	2238 586 59812	100nF 20% 50V 0603
2A35	2020 552 96618	1nF 10% 50V 0402
2A36	2238 869 15101	100pF 5% 50V 0402
2A37	2238 869 15101	100pF 5% 50V 0402
2A39	2022 552 05679	1µF 10% 16V 0805
2A40	2238 586 59812	100nF 20% 50V 0603
2A41	2020 021 91854	10µF 20% 16V
2A42	2020 021 91854	10µF 20% 16V
2A43	2020 021 91854	10µF 20% 16V
2A44	2238 586 59812	100nF 20% 50V 0603
2A46	2022 552 05679	1µF 10% 16V 0805
2A47	2020 552 96618	1nF 10% 50V 0402
2A47	2022 552 05679	1µF 10% 16V 0805
2A49	2022 552 05679	1µF 10% 16V 0805
2A50	2020 552 96618	1nF 10% 50V 0402
2A53	2022 552 05679	1µF 10% 16V 0805
2A54	2020 552 96618	1nF 10% 50V 0402
2A56	2022 552 05679	1µF 10% 16V 0805
2A59	2022 552 05679	1µF 10% 16V 0805
2A62	2022 552 05679	1µF 10% 16V 0805
2A64	2238 586 59812	100nF 20% 50V 0603
2A66	2022 552 05679	1µF 10% 16V 0805
2A69	2022 552 05679	1µF 10% 16V 0805
2A70	2022 552 05679	1µF 10% 16V 0805
2A72	2022 552 05679	1µF 10% 16V 0805
2A74	2022 552 05679	1µF 10% 16V 0805
2A75	2022 552 05679	1µF 10% 16V 0805
2A76	2238 586 59812	100nF 20% 50V 0603
2A79	2238 586 59812	100nF 20% 50V 0603
2A80	2022 552 05679	1µF 10% 16V 0805
2A81	2020 552 96618	1nF 10% 50V 0402
2A83	2238 586 59812	100nF 20% 50V 0603
2A88	2238 586 59812	100nF 20% 50V 0603
2A89	2022 552 05679	1µF 10% 16V 0805
2A90	4822 124 12313	22µF 10V 20%
2A91	2238 869 15101	100pF 5% 50V 0402
2A92	2020 552 96618	1nF 10% 50V 0402
2A92	2022 552 05679	1µF 10% 16V 0805
2A95	2238 869 15221	220pF 1% 50V 0402
2A99	2020 552 96618	1nF 10% 50V 0402
2A99	2022 552 05679	1µF 10% 16V 0805
2AA5	2238 869 15101	100pF 5% 50V 0402
2AA6	2020 552 96618	1nF 10% 50V 0402
2AA7	2020 552 96618	1nF 10% 50V 0402
2AA9	3198 034 05680	5.6pF 1% 50V 0402
2AB0	3198 034 05680	5.6pF 1% 50V 0402
2AB2	2020 552 96618	1nF 10% 50V 0402
2AB3	2022 552 05679	1µF 10% 16V 0805
2AB4	2022 552 05679	1µF 10% 16V 0805
2AB5	2020 021 91854	10µF 20% 16V
2AB6	2020 552 96618	1nF 10% 50V 0402
2AB7	2020 552 96618	1nF 10% 50V 0402
2AB8	2022 552 05679	1µF 10% 16V 0805
2C00	2238 586 59812	100nF 20% 50V 0603
2C01	2238 586 59812	100nF 20% 50V 0603
2C02	2238 586 59812	100nF 20% 50V 0603
2D04	2020 552 96618	1nF 10% 50V 0402
2D09	2238 586 59812	100nF 20% 50V 0603
2D10	2022 552 05679	1µF 10% 16V 0805
2D11	2020 552 96628	10nF 10% 16V 0402
2D12	2020 552 96628	10nF 10% 16V 0402
2E01	2238 586 59812	100nF 20% 50V 0603
2E02	2238 586 59812	100nF 20% 50V 0603
2E02	3198 035 71040	100nF 10% 16V 0402
2E03	2238 586 59812	100nF 20% 50V 0603
2E04	2238 586 59812	100nF 20% 50V 0603
2E06	2238 586 59812	100nF 20% 50V 0603
2E07	2238 586 59812	100nF 20% 50V 0603
2E08	2238 586 59812	100nF 20% 50V 0603
2E09	2238 586 59812	100nF 20% 50V 0603
2E10	2238 586 59812	100nF 20% 50V 0603
2E11	2238 586 59812	100nF 20% 50V 0603
2E12	2238 586 59812	100nF 20% 50V 0603
2E13	2238 586 59812	100nF 20% 50V 0603
2E14	2238 586 59812	100nF 20% 50V 0603
2E15	2238 586 59812	100nF 20% 50V 0603
2E16	2238 586 59812	100nF 20% 50V 0603
2E17	2238 586 59812	100nF 20% 50V 0603
2E18	2238 586 59812	100nF 20% 50V 0603
2E19	2238 586 59812	100nF 20% 50V 0603
2E20	2238 586 59812	100nF 20% 50V 0603
2E21	3198 017 34730	47nF 16V 0603
2E22	4822 126 14519	22pF 5% 50V 0402
2E23	3198 017 34730	47nF 16V 0603
2E24	4822 126 14519	22pF 5% 50V 0402
2E25	3198 017 34730	47nF 16V 0603
2E26	4822 126 14519	22pF 5% 50V 0402
2E27	2238 586 59812	100nF 20% 50V 0603
2E28	3198 017 34730	47nF 16V 0603
2E29	3198 017 33330	33nF 20% 16V 0603
2E29	4822 126 14549	33nF 16V 0603
2E30	3198 035 14720	4.7nF 5% 25V 0402
2E34	3198 035 03320	3.3nF 5% 50V 0402
2E35	2238 586 59812	100nF 20% 50V 0603
2E39	2238 869 15109	10pF 5% 50V 0402
2E41	2022 552 05679	1µF 10% 16V 0805
2E41	2238 586 59812	100nF 20% 50V 0603
2E42	2020 552 96628	10nF 10% 16V 0402
2E43	2238 586 59812	100nF 20% 50V 0603
2E49	2238 586 59812	100nF 20% 50V 0603
2E50	4822 124 23237	22µF 6.3V
2E50	4822 124 81058	47µF 20% 4V
2E51	2022 552 05679	1µF 10% 16V 0805
2E52	2238 586 59812	100nF 20% 50V 0603
2E54	2238 586 59812	100nF 20% 50V 0603
2E55	2022 552 05679	1µF 10% 16V 0805
2E56	2020 552 96628	10nF 10% 16V 0402
2E57	2020 552 96628	10nF 10% 16V 0402
2E58	2020 552 96628	10nF 10% 16V 0402
2E59	2020 552 96628	10nF 10% 16V 0402
2E62	2238 586 59812	100nF 20% 50V 0603
2E65	2238 586 59812	100nF 20% 50V 0603
2E66	2238 586 59812	100nF 20% 50V 0603
2E67	2238 586 59812	100nF 20% 50V 0603
2E68	2020 552 96628	10nF 10% 16V 0402
2E69	2020 552 96628	10nF 10% 16V 0402
2E70	2020 552 96628	10nF 10% 16V 0402
2E71	2020 552 96628	10nF 10% 16V 0402
2E72	2238 586 59812	100nF 20% 50V 0603
2E73	2238 586 59812	100nF 20% 50V 0603
2E74	2238 586 59812	100nF 20% 50V 0603
2E75	2238 586 59812	100nF 20% 50V 0603
2E77	2238 586 59812	100nF 20% 50V 0603
2E78	2238 586 59812	100nF 20% 50V 0603
2E79	2238 586 59812	100nF 20% 50V 0603
2E80	2238 586 59812	100nF 20% 50V 0603
2E81	2022 552 05679	1µF 10% 16V 0805
2E82	2238 586 59812	100nF 20% 50V 0603
2E83	2238 586 59812	100nF 20% 50V 0603
2E84	2238 586 59812	100nF 20% 50V 0603
2E86	2238 586 59812	100nF 20% 50V 0603
2E87	4822 124 12095	100µF 20% 16V
2E88	2238 869 15101	100pF 5% 50V 0402
2E89	2238 869 15101	100pF 5% 50V 0402
2E90	2238 869 15101	100pF 5% 50V 0402
2E91	2238 869 15101	100pF 5% 50V 0402
2E92	2238 869 15101	100pF 5% 50V 0402
2E93	2238 586 59812	100nF 20% 50V 0603
2E94	2238 586 59812	100nF 20% 50V 0603
2E96	2238 869 15101	100pF 5% 50V 0402
2E97	2238 869 15101	100pF 5% 50V 0402
2E98	2238 869 15101	100pF 5% 50V 0402
2E99	4822 124 81058	47µF 20% 4V
2I00	2238 869 15101	100pF 5% 50V 0402
2I11	2022 552 05679	1µF 10% 16V 0805
2I12	2022 552 05679	1µF 10% 16V 0805
2I12	4822 126 14585	100nF 10% 0805 50V
2I13	2020 552 96628	10nF 10% 16V 0402
2I14	2020 552 96623	2.2nF 10% 50V 0402
2I15	2020 552 96448	1µF 10% 16V 0805
2I15	2022 552 05679	1µF 10% 16V 0805
2I16	2238 869 15101	100pF 5% 50V 0402
2I17	2238 869 15101	100pF 5% 50V 0402
2I18	2238 869 15101	100pF 5% 50V 0402
2I19	2238 869 15101	100pF 5% 50V 0402
2I20	3198 035 03310	330pF 5% 50V 0402
2I21	2238 869 15101	100pF 5% 50V 0402
2I22	2238 869 15101	100pF 5% 50V 0402
2I23	2238 869 15101	100pF 5% 50V 0402
2I24	2238 869 15101	100pF 5% 50V 0402
2I25	3198 035 03310	330pF 5% 50V 0402
2I26	2238 869 15101	100pF 5% 50V 0402
2I27	2238 869 15101	100pF 5% 50V 0402
2I30	2238 869 15101	100pF 5% 50V 0402
2I32	4822 124 23002	10µF 16V
2I36	2238 869 15101	100pF 5% 50V 0402
2I38	2238 869 15101	100pF 5% 50V 0402
2I46	2020 552 96618	1nF 10% 50V 0402
2I47	2020 552 96618	1nF 10% 50V 0402
2I49	2238 586 59812	100nF 20% 50V 0603
2I50	2238 586 59812	100nF 20% 50V 0603
2I57	2238 869 15101	100pF 5% 50V 0402
2I58	2238 869 15101	100pF 5% 50V 0402
2I64	2238 869 15101	100pF 5% 50V 0402
2I65	2238 869 15101	100pF 5% 50V 0402
2I69	2238 869 75829	82pF 5% 50V 0402
2I69	4822 126 14324	33pF 5% 50V 0402
2I70	2238 869 75829	82pF 5% 50V 0402
2I70	4822 126 14324	33pF 5% 50V 0402
2I71	2022 552 05679	1µF 10% 16V 0805
2I72	2022 552 05679	1µF 10% 16V 0805
2I73	2022 552 05679	1µF 10% 16V 0805
2I75	2022 552 05679	1µF 10% 16V 0805
2I76	2022 552 05679	1µF 10% 16V 0805
2I77	2022 552 05679	1µF 10% 16V 0805
2I78	2022 552 05679	1µF 10% 16V 0805
2I79	5322 124 41945	22µF 20% 35V
2I80	2022 552 05679	1µF 10% 16V 0805
2I81	2022 552 05679	1µF 10% 16V 0805
2I82	2022 552 05679	1µF 10% 16V 0805
2I84	2022 552 05679	1µF 10% 16V 0805
2I85	2022 552 05679	1µF 10% 16V 0805
2I86	2238 869 75829	82pF 5% 50V 0402
2I86	4822 126 14324	33pF 5% 50V 0402
2I87	2238 869 15101	100pF 5% 50V 0402
2I88	2238 869 15101	100pF 5% 50V 0402
2I89	2022 552 05679	1µF 10% 16V 0805
2I90	2022 552 05679	1µF 10% 16V 0805
2I91	2238 586 59812	100nF 20% 50V 0603
2I92	2022 552 05679	1µF 10% 16V 0805
2I93	2238 586 59812	100nF 20% 50V 0603
2I94	2238 586 59812	100nF 20% 50V 0603
2I95	2238 586 59812	100nF 20% 50V 0603
2I96	2022 552 05679	1µF 10% 16V 0805
2I97	2238 586 59812	100nF 20% 50V 0603
2I98	2238 586 59812	100nF 20% 50V 0603
2I99	2022 552 05679	1µF 10% 16V 0805

2I99	4822 124 23002	10µF 16V
2IA0	2022 552 05679	1µF 10% 16V 0805
2IA0	4822 124 23002	10µF 16V
2IA1	2022 552 05679	1µF 10% 16V 0805
2IA1	4822 124 23002	10µF 16V
2IA2	2022 552 05679	1µF 10% 16V 0805
2IA2	4822 124 23002	10µF 16V
2IA3	2020 552 96618	1nF 10% 50V 0402
2IA4	2022 552 05679	1µF 10% 16V 0805
2IA4	4822 126 14585	100nF 10% 0805 50V
2IA5	2020 021 91557	100µF 20% 16V
2IA9	2020 021 91557	100µF 20% 16V
2IB3	2238 586 59812	100nF 20% 50V 0603
2IB5	2022 552 05679	1µF 10% 16V 0805
2IB8	2238 586 59812	100nF 20% 50V 0603
2IB9	2238 586 59812	100nF 20% 50V 0603
2IC0	4822 124 23002	10µF 16V
2IC1	4822 124 23002	10µF 16V
2IC3	2238 586 59812	100nF 20% 50V 0603
2IC5	2238 586 59812	100nF 20% 50V 0603
2IC6	3198 034 04790	27pF 1% 50V 0402
2IC7	3198 034 04790	27pF 1% 50V 0402
2IC8	2022 552 05679	1µF 10% 16V 0805
2IC9	3198 035 02210	220pF 5% 50V 0402
2IC9	4822 126 13883	220pF 5% 50V
2IE1	2238 586 59812	100nF 20% 50V 0603
2IE2	2238 586 59812	100nF 20% 50V 0603
2IE3	2022 552 05679	1µF 10% 16V 0805
2IE4	2238 586 59812	100nF 20% 50V 0603
2IE5	2238 586 59812	100nF 20% 50V 0603
2IE6	2238 586 59812	100nF 20% 50V 0603
2IE7	2022 552 05679	1µF 10% 16V 0805
2IE8	2022 552 05679	1µF 10% 16V 0805
2IE9	2238 586 59812	100nF 20% 50V 0603
2IF1	2238 586 59812	100nF 20% 50V 0603
2IF2	2238 586 59812	100nF 20% 50V 0603
2IF3	2238 586 59812	100nF 20% 50V 0603
2IF4	4822 124 80151	47µF 16V
2IF5	2238 586 59812	100nF 20% 50V 0603
2IF8	2022 552 05679	1µF 10% 16V 0805
2IF8	4822 124 11946	22µF 20% 16V
2IF9	2022 552 05679	1µF 10% 16V 0805
2IF9	4822 124 11946	22µF 20% 16V
2IG1	2238 586 59812	100nF 20% 50V 0603
2IG2	5322 124 41945	22µF 20% 35V
2IG3	2238 586 59812	100nF 20% 50V 0603
2IG4	2238 586 59812	100nF 20% 50V 0603
2IG5	2238 586 59812	100nF 20% 50V 0603
2IG6	2238 586 59812	100nF 20% 50V 0603
2IG7	2238 586 59812	100nF 20% 50V 0603
2IG8	2238 586 59812	100nF 20% 50V 0603
2IG9	2238 586 59812	100nF 20% 50V 0603
2IH1	2238 586 59812	100nF 20% 50V 0603
2IH2	2238 586 59812	100nF 20% 50V 0603
2IH3	2020 552 96618	1nF 10% 50V 0402
2IH4	2022 552 05679	1µF 10% 16V 0805
2IH5	2238 586 59812	100nF 20% 50V 0603
2IH6	2022 552 05679	1µF 10% 16V 0805
2IH6	4822 124 11946	22µF 20% 16V
2IH7	2022 552 05679	1µF 10% 16V 0805
2IH7	4822 124 11946	22µF 20% 16V
2IH8	2022 552 05679	1µF 10% 16V 0805
2IH8	4822 124 11946	22µF 20% 16V
2IH9	2022 552 05679	1µF 10% 16V 0805
2IH9	4822 124 11946	22µF 20% 16V
2IJ4	2238 586 59812	100nF 20% 50V 0603
2IJ8	2022 552 05679	1µF 10% 16V 0805
2IJ9	2022 552 05679	1µF 10% 16V 0805
2IK1	2238 780 15654	220nF 10% 16V 0805
2IK5	2238 586 59812	100nF 20% 50V 0603
2IK6	2238 586 59812	100nF 20% 50V 0603
2IK7	2238 586 59812	100nF 20% 50V 0603
2IL0	2238 869 15109	10pF 5% 50V 0402
2IN8	2238 586 59812	100nF 20% 50V 0603
2IN9	2238 586 59812	100nF 20% 50V 0603
2IR7	4822 124 12095	100µF 20% 16V
2IS6	4822 124 12095	100µF 20% 16V
2L00	4822 124 23237	22µF 6.3V
2L01	2238 586 59812	100nF 20% 50V 0603
2L02	2238 586 59812	100nF 20% 50V 0603
2L03	2238 586 59812	100nF 20% 50V 0603
2L04	2238 586 59812	100nF 20% 50V 0603
2L05	2238 586 59812	100nF 20% 50V 0603
2L06	2238 586 59812	100nF 20% 50V 0603
2L07	2238 586 59812	100nF 20% 50V 0603
2L08	2238 586 59812	100nF 20% 50V 0603
2L09	2238 586 59812	100nF 20% 50V 0603
2L10	2238 586 59812	100nF 20% 50V 0603
2L11	2238 586 59812	100nF 20% 50V 0603
2L12	2238 586 59812	100nF 20% 50V 0603
2L13	2238 586 59812	100nF 20% 50V 0603
2L14	2238 586 59812	100nF 20% 50V 0603
2L15	2238 586 59812	100nF 20% 50V 0603
2L16	2238 586 59812	100nF 20% 50V 0603
2L17	2238 586 59812	100nF 20% 50V 0603
2L19	4822 124 23237	22µF 6.3V
2L20	2238 586 59812	100nF 20% 50V 0603
2L21	2238 586 59812	100nF 20% 50V 0603
2L25	2238 586 59812	100nF 20% 50V 0603
2L26	3198 017 33330	33nF 20% 16V 0603
2L26	4822 126 14549	33nF 16V 0603
2L27	3198 035 14720	4.7nF 5% 25V 0402
2L28	2238 869 75829	82pF 5% 50V 0402
2L28	3198 034 03990	39pF 1% 50V 0402
2L29	3198 034 03990	39pF 1% 50V 0402
2L29	4822 126 14519	22pF 5% 50V 0402
2L30	2238 869 75829	82pF 5% 50V 0402
2L30	3198 034 03990	39pF 1% 50V 0402
2L31	3198 017 34730	47nF 16V 0603
2L32	3198 035 03320	3.3nF 5% 50V 0402
2L33	2238 586 59812	100nF 20% 50V 0603
2L34	2238 586 59812	100nF 20% 50V 0603
2L48	3198 034 01590	15pF 1% 50V 0402
2L50	3198 034 01590	15pF 1% 50V 0402
2L51	4822 124 23237	22µF 6.3V
2L52	3198 017 34730	47nF 16V 0603
2L54	3198 017 34730	47nF 16V 0603
2L56	2020 552 96618	1nF 10% 50V 0402
2L57	3198 017 34730	47nF 16V 0603
2L58	4822 124 23237	22µF 6.3V
2L60	2238 869 15101	100pF 5% 50V 0402
2L60	3198 034 04790	27pF 1% 50V 0402
2P00	2238 586 59812	100nF 20% 50V 0603
2P01	2020 004 90297	100µF 20% 16V
2P02	2238 586 59812	100nF 20% 50V 0603
2P03	2020 552 96793	4.7nF 10% 50V 0402
2P03	3198 035 14720	4.7nF 5% 25V 0402
2P04	2020 552 96793	4.7nF 10% 50V 0402
2P04	3198 035 14720	4.7nF 5% 25V 0402
2P06	2238 869 15221	220pF 1% 50V 0402
2P07	4822 126 14524	68pF 5% 50V 0402
2P08	3198 034 02780	27pF 1% 50V 0402
2P09	2022 552 05679	1µF 10% 16V 0805
2P10	2238 586 59812	100nF 20% 50V 0603
2P11	2238 586 59812	100nF 20% 50V 0603
2P12	2238 586 59812	100nF 20% 50V 0603
2P13	2238 586 59812	100nF 20% 50V 0603
2P14	2238 586 59812	100nF 20% 50V 0603
2P15	2238 586 59812	100nF 20% 50V 0603
2P16	2238 586 59812	100nF 20% 50V 0603
2P17	4822 126 14583	470nF 10% 16V 0805
2P18	3198 034 05680	5.6pF 1% 50V 0402
2P19	2238 586 59812	100nF 20% 50V 0603
2P20	2022 552 05679	1µF 10% 16V 0805
2P21	2022 552 05679	1µF 10% 16V 0805
2P23	2238 586 59812	100nF 20% 50V 0603
2P24	2238 586 59812	100nF 20% 50V 0603
2P25	3198 032 55130	10µF 20% 20V
2P26	2238 787 15641	22nF 5% 16V 0402
2P27	2022 552 05679	1µF 10% 16V 0805
2P28	2238 586 59812	100nF 20% 50V 0603
2P29	2022 552 05679	1µF 10% 16V 0805
2P29	3198 017 41050	1µF 10V 0603
2P30	2020 552 96793	4.7nF 10% 50V 0402
2P30	3198 035 14720	4.7nF 5% 25V 0402
2P31	2238 586 59812	100nF 20% 50V 0603
2P32	2238 586 59812	100nF 20% 50V 0603
2P33	2238 586 59812	100nF 20% 50V 0603
2P34	2238 586 59812	100nF 20% 50V 0603
2P35	2238 586 59812	100nF 20% 50V 0603
2P36	3198 035 03320	3.3nF 5% 50V 0402
2P37	3198 034 01590	15pF 1% 50V 0402
2P38	3198 034 01280	1.2pF 1% 50V 0402
2P43	3198 034 01290	12pF 1% 50V 0402
2P44	3198 034 01280	1.2pF 1% 50V 0402
2P45	2238 586 59812	100nF 20% 50V 0603
2P46	2238 586 59812	100nF 20% 50V 0603
2P47	2238 586 59812	100nF 20% 50V 0603
2P57	2022 552 05679	1µF 10% 16V 0805
2P57	3198 017 34730	47nF 16V 0603
2P58	2022 552 05679	1µF 10% 16V 0805
2P58	3198 017 34730	47nF 16V 0603
2P60	2022 552 05679	1µF 10% 16V 0805
2P65	2020 004 90283	10µF 20% 10V 1206
2P65	2020 004 90297	100µF 20% 16V
2P66	2238 586 59812	100nF 20% 50V 0603
2P70	2238 586 59812	100nF 20% 50V 0603
2P71	2020 004 90283	10µF 20% 10V 1206
2P72	2022 552 05679	1µF 10% 16V 0805
2P73	2022 552 05679	1µF 10% 16V 0805
2P74	2238 586 59812	100nF 20% 50V 0603
2P75	2022 552 05679	1µF 10% 16V 0805
2P78	2238 586 59812	100nF 20% 50V 0603
2P79	2022 552 05679	1µF 10% 16V 0805
2P80	4822 124 12095	100µF 20% 16V
2P81	2238 586 59812	100nF 20% 50V 0603
2P90	4822 124 12095	100µF 20% 16V
2P98	4822 124 12095	100µF 20% 16V
2P99	4822 124 12095	100µF 20% 16V
2PA0	2022 552 05679	1µF 10% 16V 0805
2PA1	3198 034 01510	150pF 1% 50V 0402
2PA2	2238 586 59812	100nF 20% 50V 0603
2PA3	3198 034 01510	150pF 1% 50V 0402
2PA4	2238 586 59812	100nF 20% 50V 0603
2PA5	3198 034 01510	150pF 1% 50V 0402
2PA6	2238 586 59812	100nF 20% 50V 0603
2PA7	2238 586 59812	100nF 20% 50V 0603
2PA8	2238 586 59812	100nF 20% 50V 0603
2PA9	2020 004 90283	10µF 20% 10V 1206
2PB0	2022 552 05679	1µF 10% 16V 0805
2PB1	3198 034 01510	150pF 1% 50V 0402
2PB2	2238 586 59812	100nF 20% 50V 0603
2PB3	2238 586 59812	100nF 20% 50V 0603
2PB4	3198 034 01510	150pF 1% 50V 0402
2PB6	2238 586 59812	100nF 20% 50V 0603
2PB7	2238 586 59812	100nF 20% 50V 0603
2PB8	4822 124 23002	10µF 16V
2PB9	2238 586 59812	100nF 20% 50V 0603
2PC0	4822 124 23002	10µF 16V
2PC1	2238 586 59812	100nF 20% 50V 0603
2PC2	2238 586 59812	100nF 20% 50V 0603
2PC4	2238 586 59812	100nF 20% 50V 0603
2PC5	2238 586 59812	100nF 20% 50V 0603
2PC7	2238 586 59812	100nF 20% 50V 0603
2PC8	2238 586 59812	100nF 20% 50V 0603
2PC9	2238 586 59812	100nF 20% 50V 0603
2PD0	2020 004 90283	10µF 20% 10V 1206
2PD1	2238 586 59812	100nF 20% 50V 0603
2PD3	2238 586 59812	100nF 20% 50V 0603
2PD4	2238 586 59812	100nF 20% 50V 0603
2PD5	4822 124 23002	10µF 16V
2PD6	4822 124 23002	10µF 16V
2PD7	2238 586 59812	100nF 20% 50V 0603
2PD9	2238 586 59812	100nF 20% 50V 0603
2PE4	2238 586 59812	100nF 20% 50V 0603
2PE5	2238 586 59812	100nF 20% 50V 0603
2PE6	2238 586 59812	100nF 20% 50V 0603
2PE7	2022 552 05679	1µF 10% 16V 0805
2PE7	2238 586 59812	100nF 20% 50V 0603
2PE8	2022 552 05679	1µF 10% 16V 0805
2PE8	2238 586 59812	100nF 20% 50V 0603
2PE9	2022 552 05679	1µF 10% 16V 0805
2PE9	4822 126 14585	100nF 10% 0805 50V
2PF1	4822 124 23002	10µF 16V
2PF2	2238 586 59812	100nF 20% 50V 0603
2PF3	3198 034 01510	150pF 1% 50V 0402
2PF7	2020 004 90283	10µF 20% 10V 1206
2PF8	4822 124 23002	10µF 16V
2PF9	4822 124 23002	10µF 16V
2PG0	2022 552 05679	1µF 10% 16V 0805
2PG1	2020 552 96448	1µF 10% 16V 0805
2PG6	2020 004 90283	10µF 20% 10V 1206
2T01	3198 032 28210	220µF 20% 6.3V
2T02	2238 586 15641	22nF 10% 50V 0603
2T03	3198 032 28210	220µF 20% 6.3V
2T04	2238 586 15641	22nF 10% 50V 0603
2T05	3198 032 28210	220µF 20% 6.3V
2T06	2020 552 96628	10nF 10% 16V 0402
2T09	3198 017 34730	47nF 16V 0603
2T10	3198 017 34730	47nF 16V 0603
2T12	2238 586 59812	100nF 20% 50V 0603
2T13	2020 552 96628	10nF 10% 16V 0402
2T13	5322 126 11583	10nF 10% 50V 0603
2T14	5322 126 11583	10nF 10% 50V 0603
2T15	2022 552 05679	1µF 10% 16V 0805
2T16	2022 552 05679	1µF 10% 16V 0805
2T19	3198 032 28210	220µF 20% 6.3V
2T20	3198 032 28210	220µF 20% 6.3V
2T21	3198 032 28210	220µF 20% 6.3V
2T30	2022 552 05635	22µF 10% 16V
2T31	2022 552 05635	22µF 10% 16V
2T32	2238 586 59812	100nF 20% 50V 0603
2T33	2238 586 59812	100nF 20% 50V 0603
2T34	2020 552 96618	1nF 10% 50V 0402
2T34	2020 552 96621	1.5nF 10% 50V 0402
2T35	2238 586 59812	100nF 20% 50V 0603
2T36	2022 552 05679	1µF 10% 16V 0805
2T37	2020 552 96628	10nF 10% 16V 0402
2T38	2238 586 59812	100nF 20% 50V 0603
2T40	2238 586 59812	100nF 20% 50V 0603
2T41	5322 126 11578	1nF 10% 50V 0603
2T42	2238 787 15641	22nF 5% 16V 0402
2T42	2238 916 15641	22nF 10% 25V 0603
2T43	2022 552 05635	22µF 10% 16V
2T44	2020 552 96628	10nF 10% 16V 0402
2T45	2020 552 96628	10nF 10% 16V 0402
2T46	5322 126 11578	1nF 10% 50V 0603
2T47	3198 035 04710	470pF 50V 0402
2T48	2238 586 59812	100nF 20% 50V 0603
2T49	2020 552 96618	1nF 10% 50V 0402
2T49	2020 552 96621	1.5nF 10% 50V 0402
2T50	2020 552 96628	10nF 10% 16V 0402

2T51	2022 552 05679	1µF 10% 16V 0805
2T52	2022 552 05679	1µF 10% 16V 0805
2T53	3198 035 03320	3.3nF 5% 50V 0402
2T54	2238 586 59812	100nF 20% 50V 0603
2U03	2022 552 05679	1µF 10% 16V 0805
2U04	4822 126 14583	470nF 10% 16V 0805
2U05	2020 552 96618	1nF 10% 50V 0402
2U06	2022 552 05635	22µF 10% 16V
2U07	2238 869 75829	82pF 5% 50V 0402
2U08	2022 552 05635	22µF 10% 16V
2U09	2020 552 96618	1nF 10% 50V 0402
2U10	2022 552 05635	22µF 10% 16V
2U11	2020 552 96618	1nF 10% 50V 0402
2U12	2020 552 96628	10nF 10% 16V 0402
2U13	2238 780 15654	220nF 10% 16V 0805
2U14	4822 126 14583	470nF 10% 16V 0805
2U15	4822 124 12095	100µF 20% 16V
2U16	2020 552 96793	4.7nF 10% 50V 0402
2U16	3198 035 14720	4.7nF 5% 25V 0402
2U17	4822 126 14583	470nF 10% 16V 0805
2U18	3198 034 01210	120pF 1% 50V 0402
2U19	2238 586 59812	100nF 20% 50V 0603
2U20	2022 552 05679	1µF 10% 16V 0805
2U21	4822 126 14583	470nF 10% 16V 0805
2U22	2022 552 05679	1µF 10% 16V 0805
2U23	4822 124 12095	100µF 20% 16V
2U24	2020 552 96618	1nF 10% 50V 0402
2U25	2238 586 59812	100nF 20% 50V 0603
2U26	2238 586 59812	100nF 20% 50V 0603
2U27	3198 035 26820	6.8nF 10% 16V 0402
2U28	3198 035 26820	6.8nF 10% 16V 0402
2U30	3198 034 01210	120pF 1% 50V 0402
2U31	4822 124 12095	100µF 20% 16V
2U32	3198 035 03320	3.3nF 5% 50V 0402
2U33	2022 552 05679	1µF 10% 16V 0805
2U34	2238 787 15641	22nF 5% 16V 0402
2U35	2022 552 05679	1µF 10% 16V 0805
2U36	2238 586 59812	100nF 20% 50V 0603
2U37	2020 552 96623	2.2nF 10% 50V 0402
2U39	2238 586 59812	100nF 20% 50V 0603
2U40	2020 552 96623	2.2nF 10% 50V 0402
2U40	4822 126 14238	2.2nF 50V 0603
2U41	3198 035 26820	6.8nF 10% 16V 0402
2U42	3198 017 34730	47nF 16V 0603
2V11	3198 035 04710	470pF 50V 0402
2V12	3198 035 04710	470pF 50V 0402
2Y00	2238 869 15101	100pF 5% 50V 0402
2Y01	2238 869 15101	100pF 5% 50V 0402
2Y02	2238 869 15101	100pF 5% 50V 0402
2Y03	2238 869 15101	100pF 5% 50V 0402
2Y06	2020 552 96618	1nF 10% 50V 0402
2Y06	2238 869 15101	100pF 5% 50V 0402
2Y07	2238 869 15101	100pF 5% 50V 0402
2Y08	2020 552 96618	1nF 10% 50V 0402
2Y08	2238 869 15101	100pF 5% 50V 0402
2Y09	2238 869 15101	100pF 5% 50V 0402
2Y10	2238 869 15101	100pF 5% 50V 0402
2Y11	2020 552 96618	1nF 10% 50V 0402
2Y11	2238 869 15101	100pF 5% 50V 0402
2Y12	2238 869 15101	100pF 5% 50V 0402
2Y13	2238 869 15101	100pF 5% 50V 0402
2Y14	2238 869 15101	100pF 5% 50V 0402
2Y15	2238 869 15101	100pF 5% 50V 0402
2Y16	2238 869 15101	100pF 5% 50V 0402
2Y17	2238 869 15101	100pF 5% 50V 0402
2Y18	2238 869 15101	100pF 5% 50V 0402
2Y19	2238 869 15101	100pF 5% 50V 0402
2Y20	2238 869 15101	100pF 5% 50V 0402
2Y21	2238 869 15101	100pF 5% 50V 0402
2Y22	2020 552 96618	1nF 10% 50V 0402
2Y22	2238 869 15101	100pF 5% 50V 0402
2Y23	2238 869 15101	100pF 5% 50V 0402
2Y25	2238 869 15101	100pF 5% 50V 0402
2Y26	2238 869 15101	100pF 5% 50V 0402
2Y27	2020 552 96618	1nF 10% 50V 0402
2Y28	2020 552 96618	1nF 10% 50V 0402
2Y29	2020 552 96618	1nF 10% 50V 0402
2Y30	4822 124 12095	100µF 20% 16V
2Y31	4822 124 12095	100µF 20% 16V
2Y32	2020 552 96618	1nF 10% 50V 0402
2Y33	2020 552 96618	1nF 10% 50V 0402
2Y34	2238 869 15101	100pF 5% 50V 0402
2Y36	2238 869 15101	100pF 5% 50V 0402
2Y37	2238 869 15101	100pF 5% 50V 0402
2Y38	2238 869 15101	100pF 5% 50V 0402
2Y39	2238 869 15101	100pF 5% 50V 0402
2Y40	2238 869 15101	100pF 5% 50V 0402
2Y41	2238 869 15101	100pF 5% 50V 0402
2Y42	2238 869 15101	100pF 5% 50V 0402
2Y43	2238 869 15101	100pF 5% 50V 0402
2Y44	2238 869 15101	100pF 5% 50V 0402
2Y45	2238 869 15101	100pF 5% 50V 0402
2Y49	2238 869 15101	100pF 5% 50V 0402
2Y49	2238 869 15109	10pF 5% 50V 0402
2Y50	2238 869 15101	100pF 5% 50V 0402
2Y50	2238 869 15109	10pF 5% 50V 0402
2Y51	2238 869 15101	100pF 5% 50V 0402
2Y52	3198 035 71040	100nF 10% 16V 0402
2Y53	2238 869 15101	100pF 5% 50V 0402
2Z44	4822 126 14519	22pF 5% 50V 0402
2Z45	4822 126 14519	22pF 5% 50V 0402
2Z46	4822 126 14519	22pF 5% 50V 0402
2Z47	4822 126 14519	22pF 5% 50V 0402
2Z48	4822 126 14519	22pF 5% 50V 0402
2Z49	4822 126 14519	22pF 5% 50V 0402
2Z50	4822 126 14519	22pF 5% 50V 0402
2Z51	4822 126 14519	22pF 5% 50V 0402
2Z52	4822 126 14519	22pF 5% 50V 0402
2Z53	4822 126 14519	22pF 5% 50V 0402
2Z54	2022 552 05679	1µF 10% 16V 0805
2Z55	2238 586 59812	100nF 20% 50V 0603
2Z56	2020 552 96618	1nF 10% 50V 0402
2Z59	2238 869 15101	100pF 5% 50V 0402
2Z63	2238 586 59812	100nF 20% 50V 0603
2Z64	2238 586 59812	100nF 20% 50V 0603

–WW–

3001	3198 031 04720	4.7kΩ 5% 0402
3002	3198 031 04720	4.7kΩ 5% 0402
3003	4822 117 13525	24kΩ 1% 0.62W 0603
3005	4822 117 13606	10kΩ 5% 0.01W 0402
3006	4822 117 13543	470Ω 5% 0402
3007	2350 033 10471	4 x 470Ω 5%
3008	2350 033 10101	4 x 100Ω 5%
3008	2350 033 11221	4 x 220Ω 5%
3009	3198 031 01810	180Ω 5% 0402
3009	4822 117 13606	10kΩ 5% 0.01W 0402
3010	4822 117 13606	10kΩ 5% 0.01W 0402
3011	3198 031 04720	4.7kΩ 5% 0402
3012	2350 033 10101	4 x 100Ω 5%
3013	4822 117 13606	10kΩ 5% 0.01W 0402
3014	3198 031 06820	6.8kΩ 5% 0.01W 0402
3015	3198 031 04740	470kΩ 5% 0402
3016	2322 706 71502	1.5kΩ 1% 0402
3017	3198 031 04720	4.7kΩ 5% 0402
3018	4822 117 13606	10kΩ 5% 0.01W 0402
3019	3198 031 04720	4.7kΩ 5% 0402
3020	4822 117 13606	10kΩ 5% 0.01W 0402
3021	4822 117 13606	10kΩ 5% 0.01W 0402
3022	3198 031 01220	1.2kΩ 5% 0.01W 0402
3022	3198 031 01230	12kΩ 5% 0402
3023	4822 117 13601	22kΩ 5% 0402
3023	4822 117 13602	2.2kΩ 5% 0.01W 0402
3023	4822 117 13605	Jumper 0402
3024	3198 031 02730	27kΩ 5% 0402
3025	4822 117 13596	220Ω 5% 0.01W 0402
3026	3198 031 04720	4.7kΩ 5% 0402
3027	3198 031 04730	47Ω 5% 0402
3028	3198 031 04720	4.7kΩ 5% 0402
3029	2350 033 10101	4 x 100Ω 5%
3030	3198 031 04720	4.7kΩ 5% 0402
3031	2350 033 10101	4 x 100Ω 5%
3032	4822 117 13606	10kΩ 5% 0.01W 0402
3033	4822 117 11297	100kΩ 5% 0.1W
3033	4822 117 13606	10kΩ 5% 0.01W 0402
3034	2350 033 10101	4 x 100Ω 5%
3035	2350 033 10101	4 x 100Ω 5%
3036	3198 031 04720	4.7kΩ 5% 0402
3036	3198 031 04730	47Ω 5% 0402
3037	4822 117 13548	1kΩ 5% 0402
3038	4822 117 13606	10kΩ 5% 0.01W 0402
3039	3198 031 01810	180Ω 5% 0402
3046	2350 033 10101	4 x 100Ω 5%
3047	4822 051 30008	Jumper 0603
3048	2350 033 10101	4 x 100Ω 5%
3049	2350 033 10101	4 x 100Ω 5%
3050	2350 033 10101	4 x 100Ω 5%
3051	2350 033 10101	4 x 100Ω 5%
3052	2350 033 10101	4 x 100Ω 5%
3053	4822 117 13606	10kΩ 5% 0.01W 0402
3054	2350 033 10101	4 x 100Ω 5%
3055	2350 033 10101	4 x 100Ω 5%
3056	2350 033 10101	4 x 100Ω 5%
3057	2350 033 10101	4 x 100Ω 5%
3059	2322 704 66201	620Ω 1% 0603
3061	2350 033 10101	4 x 100Ω 5%
3062	4822 117 13606	10kΩ 5% 0.01W 0402
3064	2350 033 10101	4 x 100Ω 5%
3065	3198 031 04720	4.7kΩ 5% 0402
3066	3198 031 04730	47Ω 5% 0402
3067	3198 031 04740	470kΩ 5% 0402
3069	3198 031 01820	1.8kΩ 5% 0.01W 0402
3070	3198 031 02730	27kΩ 5% 0402
3072	2350 033 10101	4 x 100Ω 5%
3073	2350 033 10471	4 x 470Ω 5%
3074	2350 033 10471	4 x 470Ω 5%
3076	2350 033 10471	4 x 470Ω 5%
3077	3198 031 04720	4.7kΩ 5% 0402
3078	2350 033 10471	4 x 470Ω 5%
3079	3198 031 01820	1.8kΩ 5% 0.01W 0402
3080	4822 117 13606	10kΩ 5% 0.01W 0402
3081	4822 117 13543	470Ω 5% 0402
3082	2350 033 10101	4 x 100Ω 5%
3083	2350 033 10101	4 x 100Ω 5%
3084	4822 117 13606	10kΩ 5% 0.01W 0402
3085	2350 033 10101	4 x 100Ω 5%
3086	2350 033 10101	4 x 100Ω 5%
3087	4822 117 13545	100Ω 1% 0402
3088	3198 031 01820	1.8kΩ 5% 0.01W 0402
3089	4822 117 13545	100Ω 1% 0402
3090	2350 033 10471	4 x 470Ω 5%
3091	4822 051 30008	Jumper 0603
3092	3198 031 01820	1.8kΩ 5% 0.01W 0402
3093	4822 117 13606	10kΩ 5% 0.01W 0402
3097	4822 117 13543	470Ω 5% 0402
3099	2350 033 10471	4 x 470Ω 5%
3100	4822 117 13596	220Ω 5% 0.01W 0402
3101	4822 117 13596	220Ω 5% 0.01W 0402
3102	2350 033 10101	4 x 100Ω 5%
3103	4822 117 13543	470Ω 5% 0402
3304	2322 750 63908	3.9Ω 5% Fuse 1206
3370	4822 117 13545	100Ω 1% 0402
3371	4822 117 13546	47Ω 5% 0402
3372	4822 117 13543	470Ω 5% 0402
3376	4822 117 13545	100Ω 1% 0402
3377	4822 117 13545	100Ω 1% 0402
3378	3198 031 01530	15kΩ 5% 0.01W 0402
3380	4822 117 13545	100Ω 1% 0402
3382	4822 117 13543	470Ω 5% 0402
3385	4822 117 13543	470Ω 5% 0402
3393	4822 117 11297	100kΩ 5% 0.1W
3400▲	4822 117 11152	4.7Ω 5%
3402▲	2322 750 63908	3.9Ω 5% Fuse 1206
3404	3198 031 05610	560Ω 5% 0.01W 0402
3405	4822 117 13548	1kΩ 5% 0402
3406	2322 705 70279	27Ω 5% 0402
3408	4822 117 13545	100Ω 1% 0402
3411	3198 031 02720	2.7kΩ 5% 0.01W 0402
3412▲	4822 117 11152	4.7Ω 5%
3413	3198 031 02710	270Ω 5% 0.1W 0402
3414	3198 031 04720	4.7kΩ 5% 0402
3415	4822 117 13602	2.2kΩ 5% 0.01W 0402
3418	3198 031 03910	390Ω 1% 0402
3419	3198 031 03390	33Ω 1% 0402
3422	4822 117 13548	1kΩ 5% 0402
3435	3198 031 04720	4.7kΩ 5% 0402
3436	3198 031 01810	180Ω 5% 0402
3437	4822 117 13543	470Ω 5% 0402
3439	4822 117 13597	330Ω 5% 0402 0.01W
3441	3198 031 05620	5.6kΩ 5% 0.01W 0402
3445	4822 117 13543	470Ω 5% 0402
3463	3198 031 04720	4.7kΩ 5% 0402
3473	4822 117 13548	1kΩ 5% 0402
3474	3198 031 01090	10Ω 5% 0.01W 0402
3475▲	5322 117 11726	10Ω 5%
3476	3198 031 05610	560Ω 5% 0.01W 0402
3700	3198 031 02290	22Ω 5% 0.1W 0402
3701	4822 117 13548	1kΩ 5% 0402
3702	3198 031 01090	10Ω 5% 0.01W 0402
3703	3198 031 04720	4.7kΩ 5% 0402
3706	4822 117 13545	100Ω 1% 0402
3707	4822 117 13545	100Ω 1% 0402
3709	4822 117 13545	100Ω 1% 0402
3710	4822 117 13545	100Ω 1% 0402
3712	3198 031 04730	47Ω 5% 0402
3713	3198 031 01810	180Ω 5% 0402
3714	3198 031 01810	180Ω 5% 0402
3715	3198 031 01810	180Ω 5% 0402
3716	4822 117 11297	100kΩ 5% 0.1W
3717	4822 117 11297	100kΩ 5% 0.1W
3718	4822 117 11297	100kΩ 5% 0.1W
3719	3198 031 03320	3.3kΩ 5% 0402
3720	4822 117 13606	10kΩ 5% 0.01W 0402
3721	4822 117 13545	100Ω 1% 0402
3722	4822 117 13548	1kΩ 5% 0402
3724	4822 117 13545	100Ω 1% 0402
3725	3198 031 03320	3.3kΩ 5% 0402
3726	3198 031 01220	1.2kΩ 5% 0.01W 0402
3727	3198 031 01510	150Ω 5% 0.01W 0402
3728	3198 031 01510	150Ω 5% 0.01W 0402
3729	4822 117 13605	Jumper 0402
3730	3198 031 05610	560Ω 5% 0.01W 0402
3730	3198 031 06810	680Ω 5% 0.01W 0402
3732	3198 031 04730	47Ω 5% 0402
3733	4822 117 13548	1kΩ 5% 0402
3734	4822 117 13545	100Ω 1% 0402
3736	4822 117 13545	100Ω 1% 0402
3737	4822 117 13548	1kΩ 5% 0402
3738	4822 117 13548	1kΩ 5% 0402
3739	3198 031 01230	12kΩ 5% 0402

3740	3198 031 04720	4.7kΩ 5% 0402
3742	4822 117 13601	22kΩ 5% 0402
3743	4822 117 13606	10kΩ 5% 0.01W 0402
3744	4822 117 13602	2.2kΩ 5% 0.01W 0402
3745	4822 117 13548	1kΩ 5% 0402
3746	3198 031 03920	3.9kΩ 5% 0402
3747	3198 031 04730	47Ω 5% 0402
3748	2322 705 70124	120kΩ 5% 0402
3749	3198 031 03920	3.9kΩ 5% 0402
3750	3198 031 03920	3.9kΩ 5% 0402
3751	3198 031 03320	3.3kΩ 5% 0402
3752	4822 117 13605	Jumper 0402
3753	4822 117 13605	Jumper 0402
3754	4822 117 13545	100Ω 1% 0402
3755	3198 031 04720	4.7kΩ 5% 0402
3756	4822 117 13606	10kΩ 5% 0.01W 0402
3757	3198 031 01510	150Ω 5% 0.01W 0402
3758	3198 031 04720	4.7kΩ 5% 0402
3759	4822 117 13596	220Ω 5% 0.01W 0402
3762	3198 031 03390	33Ω 1% 0402
3762	3198 031 06890	68Ω 5% 0402
3763	3198 031 03390	33Ω 1% 0402
3763	3198 031 06890	68Ω 5% 0402
3764	3198 031 03390	33Ω 1% 0402
3764	3198 031 06890	68Ω 5% 0402
3766	4822 117 13548	1kΩ 5% 0402
3767	3198 031 03390	33Ω 1% 0402
3767	3198 031 06890	68Ω 5% 0402
3768	3198 031 03390	33Ω 1% 0402
3768	3198 031 06890	68Ω 5% 0402
3769	3198 031 03390	33Ω 1% 0402
3769	3198 031 06890	68Ω 5% 0402
3770	3198 031 03390	33Ω 1% 0402
3770	3198 031 06890	68Ω 5% 0402
3771	3198 031 07590	75Ω 5% 0402
3772	3198 031 07590	75Ω 5% 0402
3773	3198 031 07590	75Ω 5% 0402
3774	3198 031 03390	33Ω 1% 0402
3774	3198 031 06890	68Ω 5% 0402
3775	3198 031 03390	33Ω 1% 0402
3775	3198 031 06890	68Ω 5% 0402
3776	3198 031 07590	75Ω 5% 0402
3777	3198 031 03390	33Ω 1% 0402
3777	3198 031 06890	68Ω 5% 0402
3778	3198 031 04720	4.7kΩ 5% 0402
3779	3198 031 03390	33Ω 1% 0402
3779	3198 031 06890	68Ω 5% 0402
3780	3198 031 03390	33Ω 1% 0402
3780	3198 031 06890	68Ω 5% 0402
3781	3198 031 03390	33Ω 1% 0402
3781	3198 031 06890	68Ω 5% 0402
3782	4822 117 13548	1kΩ 5% 0402
3784	3198 031 03390	33Ω 1% 0402
3784	3198 031 06890	68Ω 5% 0402
3792	3198 031 01510	150Ω 5% 0.01W 0402
3793	4822 117 13602	2.2kΩ 5% 0.01W 0402
3794	3198 031 07590	75Ω 5% 0402
3795	3198 031 01510	150Ω 5% 0.01W 0402
3797	3198 031 04720	4.7kΩ 5% 0402
3800	3198 031 07590	75Ω 5% 0402
3801	3198 031 01510	150Ω 5% 0.01W 0402
3802	3198 031 01510	150Ω 5% 0.01W 0402
3803	3198 031 03390	33Ω 1% 0402
3803	3198 031 06890	68Ω 5% 0402
3804	3198 031 03390	33Ω 1% 0402
3804	3198 031 06890	68Ω 5% 0402
3805	4822 117 13545	100Ω 1% 0402
3811	3198 031 07590	75Ω 5% 0402
3812	3198 031 07590	75Ω 5% 0402
3814	3198 031 07590	75Ω 5% 0402
3815	3198 031 07590	75Ω 5% 0402
3817	3198 031 07590	75Ω 5% 0402
3818	3198 031 07590	75Ω 5% 0402
3820	3198 031 04720	4.7kΩ 5% 0402
3821	3198 031 03390	33Ω 1% 0402
3823	3198 031 06890	68Ω 5% 0402
3826	4822 117 13545	100Ω 1% 0402
3827	4822 117 13545	100Ω 1% 0402
3828	4822 117 13605	Jumper 0402
3829	4822 117 13545	100Ω 1% 0402
3830	3198 031 06890	68Ω 5% 0402
3831	3198 031 06890	68Ω 5% 0402
3832	3198 031 06890	68Ω 5% 0402
3833	3198 031 06890	68Ω 5% 0402
3834	3198 031 06890	68Ω 5% 0402
3835	3198 031 06890	68Ω 5% 0402
3836	3198 031 06890	68Ω 5% 0402
3837	3198 031 06890	68Ω 5% 0402
3838	3198 031 06890	68Ω 5% 0402
3839	3198 031 06890	68Ω 5% 0402
3840	3198 031 06890	68Ω 5% 0402
3841	3198 031 06890	68Ω 5% 0402
3842	3198 031 06890	68Ω 5% 0402
3843	3198 031 06890	68Ω 5% 0402
3844	3198 031 06890	68Ω 5% 0402
3845	3198 031 06890	68Ω 5% 0402
3846	3198 031 04720	4.7kΩ 5% 0402
3850	2322 705 70829	82Ω 5% 0402
3850	2322 705 87829	82Ω 5% 0402
3853	3198 031 04730	47Ω 5% 0402
3855	3198 031 04720	4.7kΩ 5% 0402
3856	3198 031 01090	10Ω 5% 0.01W 0402
3857	3198 031 01090	10Ω 5% 0.01W 0402
3858	3198 031 01090	10Ω 5% 0.01W 0402
3859	3198 031 01090	10Ω 5% 0.01W 0402
3860	3198 031 01090	10Ω 5% 0.01W 0402
3861	3198 031 01090	10Ω 5% 0.01W 0402
3864	4822 117 13545	100Ω 1% 0402
3865	4822 117 13545	100Ω 1% 0402
3867	4822 117 13545	100Ω 1% 0402
3868	4822 117 13545	100Ω 1% 0402
3869	4822 117 13545	100Ω 1% 0402
3870	4822 117 13545	100Ω 1% 0402
3871	4822 117 13545	100Ω 1% 0402
3872	4822 117 13545	100Ω 1% 0402
3873	4822 117 13545	100Ω 1% 0402
3875	4822 117 13545	100Ω 1% 0402
3880	3198 031 04730	47Ω 5% 0402
3881	3198 031 04730	47Ω 5% 0402
3882	3198 031 04730	47Ω 5% 0402
3883	3198 031 04730	47Ω 5% 0402
3884	3198 031 04730	47Ω 5% 0402
3885	4822 117 13548	1kΩ 5% 0402
3886	4822 117 13548	1kΩ 5% 0402
3887	4822 117 13548	1kΩ 5% 0402
3888	4822 117 13548	1kΩ 5% 0402
3889	4822 117 13548	1kΩ 5% 0402
3890	4822 117 13548	1kΩ 5% 0402
3891	4822 117 13548	1kΩ 5% 0402
3894	3198 031 01510	150Ω 5% 0.01W 0402
3896	4822 117 13605	Jumper 0402
3900	3198 031 06890	68Ω 5% 0402
3901	3198 031 06890	68Ω 5% 0402
3902	3198 031 06890	68Ω 5% 0402
3903	4822 117 11297	100kΩ 5% 0.1W
3905	3198 031 04720	4.7kΩ 5% 0402
3909	4822 117 13545	100Ω 1% 0402
3911	2350 033 11689	4x 68Ω 5% Netw.
3912	2350 033 11689	4x 68Ω 5% Netw.
3913	2350 033 11229	4x 22Ω 5% Netw.
3914	2350 033 11229	4x 22Ω 5% Netw.
3915	2350 033 11229	4x 22Ω 5% Netw.
3916	2350 033 11229	4x 22Ω 5% Netw.
3917	2350 033 11229	4x 22Ω 5% Netw.
3918	3198 031 06890	68Ω 5% 0402
3919	3198 031 06890	68Ω 5% 0402
3921	3198 031 06890	68Ω 5% 0402
3A00	4822 117 13601	22kΩ 5% 0402
3A01	4822 117 13606	10kΩ 5% 0.01W 0402
3A03▲	4822 117 13568	6.8Ω 5% 1206
3A04	4822 117 13601	22kΩ 5% 0402
3A05	4822 117 13601	22kΩ 5% 0402
3A06	4822 117 11297	100kΩ 5% 0.1W
3A07	4822 117 11297	100kΩ 5% 0.1W
3A09	4822 117 13601	22kΩ 5% 0402
3A11	4822 117 11297	100kΩ 5% 0.1W
3A12	3198 031 04730	47Ω 5% 0402
3A13	3198 031 04730	47Ω 5% 0402
3A14	3198 031 04730	47Ω 5% 0402
3A15	4822 117 11297	100kΩ 5% 0.1W
3A16	4822 117 13545	100Ω 1% 0402
3A17	4822 117 13545	100Ω 1% 0402
3A18	3198 031 06830	68kΩ 5% 0.01W 0402
3A19	4822 117 13545	100Ω 1% 0402
3A20	4822 117 11297	100kΩ 5% 0.1W
3A21	3198 031 02730	27kΩ 5% 0402
3A21	3198 031 06830	68kΩ 5% 0.01W 0402
3A22	4822 117 11297	100kΩ 5% 0.1W
3A23	3198 031 06830	68kΩ 5% 0.01W 0402
3A24	3198 031 06810	680Ω 5% 0.01W 0402
3A24	4822 117 13545	100Ω 1% 0402
3A26	3198 031 06830	68kΩ 5% 0.01W 0402
3A27	3198 031 06820	6.8kΩ 5% 0.01W 0402
3A28	3198 031 06820	6.8kΩ 5% 0.01W 0402
3A40	3198 031 04730	47Ω 5% 0402
3A45	3198 031 04730	47Ω 5% 0402
3A46	3198 031 04720	4.7kΩ 5% 0402
3A47	3198 031 04730	47Ω 5% 0402
3A48	4822 117 11297	100kΩ 5% 0.1W
3A49	3198 031 04730	47Ω 5% 0402
3A51	3198 031 04720	4.7kΩ 5% 0402
3A52	3198 031 03930	39kΩ 5% 0402
3A52	3198 031 05630	56kΩ 5% 0402
3A53	3198 031 03930	39kΩ 5% 0402
3A53	3198 031 05630	56kΩ 5% 0402
3A55	4822 117 13597	330Ω 5% 0402 0.01W
3A60	4822 117 11297	100kΩ 5% 0.1W
3A61	4822 117 13597	330Ω 5% 0402 0.01W
3A62	4822 117 11297	100kΩ 5% 0.1W
3A63	4822 117 13601	22kΩ 5% 0402
3A64	3198 031 04730	47Ω 5% 0402
3A64	4822 117 13597	330Ω 5% 0402 0.01W
3A65	3198 031 01050	1MΩ 5% 0402
3A65	4822 117 11297	100kΩ 5% 0.1W
3A66	4822 117 11297	100kΩ 5% 0.1W
3C00	4822 117 13602	2.2kΩ 5% 0.01W 0402
3C01	3198 031 01090	10Ω 5% 0.01W 0402
3C03	4822 117 13606	10kΩ 5% 0.01W 0402
3C04	4822 117 13606	10kΩ 5% 0.01W 0402
3C05	4822 117 13543	470Ω 5% 0402
3C08	4822 051 30103	10kΩ 5% 0.062W
3C10	4822 117 13545	100Ω 1% 0402
3C11	4822 117 13545	100Ω 1% 0402
3C12	3198 031 06890	68Ω 5% 0402
3E00	4822 117 13606	10kΩ 5% 0.01W 0402
3E01	4822 117 13548	1kΩ 5% 0402
3E02	4822 117 13548	1kΩ 5% 0402
3E03	4822 117 13548	1kΩ 5% 0402
3E04	4822 117 13548	1kΩ 5% 0402
3E05	3198 031 01520	1.2kΩ 5% 0.01W 0402
3E06	4822 117 13545	100Ω 1% 0402
3E07	4822 117 13545	100Ω 1% 0402
3E08	4822 117 13545	100Ω 1% 0402
3E11	4822 117 13543	470Ω 5% 0402
3E12	4822 117 13543	470Ω 5% 0402
3E14	4822 117 13548	1kΩ 5% 0402
3E16	3198 031 02720	2.7kΩ 5% 0.01W 0402
3E18	4822 117 13545	100Ω 1% 0402
3E19	4822 117 13545	100Ω 1% 0402
3E37	4822 117 13545	100Ω 1% 0402
3E50	4822 117 13606	10kΩ 5% 0.01W 0402
3E51	4822 117 13606	10kΩ 5% 0.01W 0402
3E52	4822 117 13606	10kΩ 5% 0.01W 0402
3E53	4822 117 13606	10kΩ 5% 0.01W 0402
3E54	4822 117 13546	47Ω 5% 0402
3E55	4822 117 13606	10kΩ 5% 0.01W 0402
3E56	4822 117 13603	33kΩ 5% 0402
3E57	4822 117 11297	100kΩ 5% 0.1W
3E58	4822 117 13546	47Ω 5% 0402
3E59	4822 117 13606	10kΩ 5% 0.01W 0402
3E61	4822 117 13546	47Ω 5% 0402
3E62	4822 117 13548	1kΩ 5% 0402
3E63	4822 117 13606	10kΩ 5% 0.01W 0402
3E64	4822 117 13606	10kΩ 5% 0.01W 0402
3E69	3198 031 04720	4.7kΩ 5% 0402
3E70	3198 031 04720	4.7kΩ 5% 0402
3E73	4822 117 13606	10kΩ 5% 0.01W 0402
3E74	4822 117 13546	47Ω 5% 0402
3E77	4822 117 13546	47Ω 5% 0402
3E78	4822 117 13546	47Ω 5% 0402
3E79	4822 117 13546	47Ω 5% 0402
3E80	4822 117 13546	47Ω 5% 0402
3E81	4822 117 13546	47Ω 5% 0402
3E82	3198 031 01090	10Ω 5% 0.01W 0402
3E83	3198 031 01090	10Ω 5% 0.01W 0402
3E84	3198 031 01090	10Ω 5% 0.01W 0402
3E85	3198 031 01090	10Ω 5% 0.01W 0402
3E86	3198 031 01090	10Ω 5% 0.01W 0402
3E88	4822 117 13546	47Ω 5% 0402
3E89	4822 117 13546	47Ω 5% 0402
3E90	3198 031 06890	68Ω 5% 0402
3E91	3198 031 03390	33Ω 1% 0402
3I07	4822 117 13606	10kΩ 5% 0.01W 0402
3I08	4822 117 13597	330Ω 5% 0402 0.01W
3I28	4822 117 13545	100Ω 1% 0402
3I29	4822 051 30759	75Ω 5% 0.062W
3I30	4822 051 30759	75Ω 5% 0.062W
3I31	4822 051 30759	75Ω 5% 0.062W
3I32	4822 117 13548	1kΩ 5% 0402
3I33	4822 051 30101	100Ω 5% 0.062W
3I34	4822 117 13606	10kΩ 5% 0.01W 0402
3I35	4822 051 30101	100Ω 5% 0.062W
3I36	4822 117 13601	22kΩ 5% 0402
3I37	4822 117 13601	22kΩ 5% 0402
3I38	4822 117 13601	22kΩ 5% 0402
3I39	3198 031 04720	4.7kΩ 5% 0402
3I40	4822 051 30101	100Ω 5% 0.062W
3I41	4822 117 13548	1kΩ 5% 0402
3I42	4822 117 13548	1kΩ 5% 0402
3I42	4822 117 13602	2.2kΩ 5% 0.01W 0402
3I43	3198 031 04720	4.7kΩ 5% 0402
3I44	4822 117 13606	10kΩ 5% 0.01W 0402
3I45	3198 031 04730	47Ω 5% 0402
3I46	4822 117 13545	100Ω 1% 0402
3I47	4822 117 13602	2.2kΩ 5% 0.01W 0402
3I49	4822 117 13545	100Ω 1% 0402
3I50	4822 051 30271	270Ω 5% 0.062W
3I51	4822 051 30101	100Ω 5% 0.062W
3I51	4822 117 13545	100Ω 1% 0402
3I52	4822 051 30271	270Ω 5% 0.062W
3I53	4822 051 30101	100Ω 5% 0.062W
3I53	4822 117 13545	100Ω 1% 0402

3I54	4822 051 30101	100Ω 5% 0.062W
3I54	4822 117 13545	100Ω 1% 0402
3I55	4822 051 30759	75Ω 5% 0.062W
3I56	4822 051 30101	100Ω 5% 0.062W
3I56	4822 117 13545	100Ω 1% 0402
3I57	4822 051 30759	75Ω 5% 0.062W
3I58	4822 051 30101	100Ω 5% 0.062W
3I58	4822 117 13545	100Ω 1% 0402
3I59	4822 051 30759	75Ω 5% 0.062W
3I60	4822 051 30759	75Ω 5% 0.062W
3I61	4822 051 30101	100Ω 5% 0.062W
3I61	4822 117 13545	100Ω 1% 0402
3I62	4822 051 30101	100Ω 5% 0.062W
3I62	4822 117 13545	100Ω 1% 0402
3I63	4822 051 30392	3.9Ω 5% 0.063W 0603
3I64	3198 031 08220	8.2kΩ 5% 0.5W
3I65	4822 051 30101	100Ω 5% 0.062W
3I65	4822 117 13545	100Ω 1% 0402
3I66	4822 051 30759	75Ω 5% 0.062W
3I67	4822 051 30759	75Ω 5% 0.062W
3I68	4822 051 30101	100Ω 5% 0.062W
3I68	4822 117 13545	100Ω 1% 0402
3I69	4822 051 30271	270Ω 5% 0.062W
3I70	4822 051 30101	100Ω 5% 0.062W
3I70	4822 117 13545	100Ω 1% 0402
3I71	4822 051 30271	270Ω 5% 0.062W
3I72	4822 051 30101	100Ω 5% 0.062W
3I72	4822 117 13545	100Ω 1% 0402
3I75	4822 051 30101	100Ω 5% 0.062W
3I75	4822 117 13545	100Ω 1% 0402
3I76	4822 051 30101	100Ω 5% 0.062W
3I76	4822 117 13545	100Ω 1% 0402
3I77	4822 051 30759	75Ω 5% 0.062W
3I78	4822 051 30759	75Ω 5% 0.062W
3I79	4822 051 30101	100Ω 5% 0.062W
3I79	4822 117 13545	100Ω 1% 0402
3I80	4822 051 30101	100Ω 5% 0.062W
3I80	4822 117 13545	100Ω 1% 0402
3I81	3198 031 08220	8.2kΩ 5% 0.5W
3I82	4822 051 30392	3.9Ω 5% 0.063W 0603
3I83	4822 051 30101	100Ω 5% 0.062W
3I83	4822 117 13545	100Ω 1% 0402
3I84	4822 051 30759	75Ω 5% 0.062W
3I86	4822 051 30759	75Ω 5% 0.062W
3I87	4822 051 30101	100Ω 5% 0.062W
3I87	4822 117 13545	100Ω 1% 0402
3I88	4822 051 30759	75Ω 5% 0.062W
3I89	4822 051 30271	270Ω 5% 0.062W
3I90	4822 051 30101	100Ω 5% 0.062W
3I90	4822 117 13545	100Ω 1% 0402
3I91	4822 051 30271	270Ω 5% 0.062W
3I92	4822 051 30101	100Ω 5% 0.062W
3I92	4822 117 13545	100Ω 1% 0402
3I98	4822 117 11297	100kΩ 5% 0.1W
3I98	4822 117 13605	Jumper 0402
3I99	4822 051 30271	270Ω 5% 0.062W
3IA0	4822 051 30101	100Ω 5% 0.062W
3IA0	4822 117 13545	100Ω 1% 0402
3IA1	4822 117 11297	100kΩ 5% 0.1W
3IA2	4822 051 30101	100Ω 5% 0.062W
3IA2	4822 117 13545	100Ω 1% 0402
3IA3	4822 117 13601	22kΩ 5% 0402
3IA4	4822 117 13548	1kΩ 5% 0402
3IA5	4822 117 13548	1kΩ 5% 0402
3IA6	4822 117 13548	1kΩ 5% 0402
3IA7	4822 117 13548	1kΩ 5% 0402
3IA8	4822 117 13548	1kΩ 5% 0402
3IB2	4822 117 13545	100Ω 1% 0402
3IB4	4822 117 13601	22kΩ 5% 0402
3IB5	4822 117 13601	22kΩ 5% 0402
3IC1▲	4822 117 13574	1.5Ω 5% 1206
3IC2	4822 117 13601	22kΩ 5% 0402
3IC3	4822 117 13601	22kΩ 5% 0402
3IC4	4822 117 13545	100Ω 1% 0402
3IC6	4822 117 13545	100Ω 1% 0402
3IC8	3198 031 05610	560Ω 5% 0.01W 0402
3IC9	4822 117 13601	22kΩ 5% 0402
3ID0	3198 031 04720	4.7kΩ 5% 0402
3ID1	3198 031 01540	150kΩ 5% 0402
3ID5	3198 031 01090	10Ω 5% 0.01W 0402
3ID7	4822 117 11297	100kΩ 5% 0.1W
3ID8	4822 117 11297	100kΩ 5% 0.1W
3ID9	3198 031 05610	560Ω 5% 0.01W 0402
3IE2	4822 117 13545	100Ω 1% 0402
3IE3	4822 117 13545	100Ω 1% 0402
3IE7	3198 031 01090	10Ω 5% 0.01W 0402
3IE9	4822 117 13601	22kΩ 5% 0402
3IF0	4822 117 13545	100Ω 1% 0402
3IF5	4822 117 13601	22kΩ 5% 0402
3IF6	4822 051 30101	100Ω 5% 0.062W
3IF6	4822 117 13545	100Ω 1% 0402
3IF7	4822 051 30101	100Ω 5% 0.062W
3IF7	4822 117 13545	100Ω 1% 0402
3IG0	3198 031 05610	560Ω 5% 0.01W 0402
3IG0	4822 117 13548	1kΩ 5% 0402
3IG1	3198 031 01090	10Ω 5% 0.01W 0402
3IG3	3198 031 05610	560Ω 5% 0.01W 0402
3IG3	4822 117 13548	1kΩ 5% 0402
3IG4	3198 031 01090	10Ω 5% 0.01W 0402
3IG6	3198 031 05610	560Ω 5% 0.01W 0402
3IG6	4822 117 13548	1kΩ 5% 0402
3IG7	3198 031 01090	10Ω 5% 0.01W 0402
3IH1	3198 031 04730	47Ω 5% 0402
3IH7	3198 031 05610	560Ω 5% 0.01W 0402
3IH8	3198 031 04730	47Ω 5% 0402
3IH9	3198 031 04730	47Ω 5% 0402
3IHA	4822 117 13545	100Ω 1% 0402
3IHB	4822 117 13545	100Ω 1% 0402
3IHC	4822 117 13545	100Ω 1% 0402
3IHG	4822 117 12903	1.8kΩ 1% 0.063W 0603
3II0	4822 117 13606	10kΩ 5% 0.01W 0402
3II1	4822 117 13601	22kΩ 5% 0402
3II2	4822 117 13601	22kΩ 5% 0402
3II3	3198 031 04730	47Ω 5% 0402
3II4	3198 031 04730	47Ω 5% 0402
3II6	4822 117 13601	22kΩ 5% 0402
3II7	4822 117 13601	22kΩ 5% 0402
3II8	4822 117 13548	1kΩ 5% 0402
3II9	4822 117 13548	1kΩ 5% 0402
3IJ0	4822 117 13545	100Ω 1% 0402
3IJ1	4822 117 13545	100Ω 1% 0402
3IJ8	4822 117 13548	1kΩ 5% 0402
3IK0	4822 117 13548	1kΩ 5% 0402
3IK2	4822 117 13601	22kΩ 5% 0402
3IK3	4822 117 13601	22kΩ 5% 0402
3IK7▲	4822 117 11152	4.7Ω 5%
3IL1	3198 031 05610	560Ω 5% 0.01W 0402
3IL3	3198 031 01090	10Ω 5% 0.01W 0402
3IL8	3198 031 05610	560Ω 5% 0.01W 0402
3IM0	3198 031 01090	10Ω 5% 0.01W 0402
3IM4	3198 031 05610	560Ω 5% 0.01W 0402
3IN0	3198 031 01090	10Ω 5% 0.01W 0402
3IN1	4822 117 13548	1kΩ 5% 0402
3IN4	4822 117 11748	Fuse 2.2Ω 5% 1206
3IN5	4822 117 13601	22kΩ 5% 0402
3IN6	4822 117 13601	22kΩ 5% 0402
3IN8	3198 031 01090	10Ω 5% 0.01W 0402
3IO5	4822 117 13606	10kΩ 5% 0.01W 0402
3IO6	4822 117 13606	10kΩ 5% 0.01W 0402
3IP0	3198 031 08220	8.2kΩ 5% 0.5W
3IP1	4822 117 13602	2.2kΩ 5% 0.01W 0402
3IP2	4822 117 13596	220Ω 5% 0.01W 0402
3IP3	4822 051 30689	68Ω 5% 0.063W 0603
3IP3	4822 051 30759	75Ω 5% 0.062W
3IP4	3198 031 02710	270Ω 5% 0.1W 0402
3IP5▲	4822 117 11748	Fuse 2.2Ω 5% 1206
3IP6	4822 117 13548	1kΩ 5% 0402
3IP7	3198 031 02720	2.7kΩ 5% 0.01W 0402
3IP8	4822 117 13548	1kΩ 5% 0402
3IQ0	3198 031 01090	10Ω 5% 0.01W 0402
3IQ5	3198 031 04730	47Ω 5% 0402
3IQ6	4822 117 13545	100Ω 1% 0402
3IQ7	4822 117 13545	100Ω 1% 0402
3IQ8	3198 031 03320	3.3kΩ 5% 0402
3IQ9	4822 117 13548	1kΩ 5% 0402
3IR1	3198 031 02710	270Ω 5% 0.1W 0402
3IR2	3198 031 04720	4.7kΩ 5% 0402
3IR3	3198 031 04720	4.7kΩ 5% 0402
3IR4	4822 117 13545	100Ω 1% 0402
3IR5	4822 117 13546	47Ω 5% 0402
3IR6	4822 117 13546	47Ω 5% 0402
3IR7	4822 117 13543	470Ω 5% 0402
3IR8	3198 031 03320	3.3kΩ 5% 0402
3IR9	2322 706 71201	120Ω 1% 0402
3IS0	2322 706 71201	120Ω 1% 0402
3IS1	2322 706 71201	120Ω 1% 0402
3IS2	4822 117 13545	100Ω 1% 0402
3IS5	2322 706 71201	120Ω 1% 0402
3IS7	4822 117 11297	100kΩ 5% 0.1W
3IT0	3198 031 04730	47Ω 5% 0402
3IT1	3198 031 04730	47Ω 5% 0402
3IT4	3198 031 04730	47Ω 5% 0402
3IT5	2322 706 71201	120Ω 1% 0402
3IT6	2322 706 71201	120Ω 1% 0402
3IT7	4822 117 13548	1kΩ 5% 0402
3IT8	4822 117 13548	1kΩ 5% 0402
3IT9	4822 117 13597	330Ω 5% 0402 0.01W
3IU0▲	4822 117 11748	Fuse 2.2Ω 5% 1206
3IV0	3198 031 08220	8.2kΩ 5% 0.5W
3IV1	4822 117 13548	1kΩ 5% 0402
3IV2	4822 117 13543	470Ω 5% 0402
3IV3	4822 117 13548	1kΩ 5% 0402
3IV4	4822 117 13548	1kΩ 5% 0402
3IV5	4822 117 13548	1kΩ 5% 0402
3IV6	4822 117 13548	1kΩ 5% 0402
3IW4	3198 031 06820	6.8kΩ 5% 0.01W 0402
3IW4	4822 117 13548	1kΩ 5% 0402
3IW5	3198 031 02720	2.7kΩ 5% 0.01W 0402
3IW5	4822 117 13548	1kΩ 5% 0402
3IW6	4822 117 13548	1kΩ 5% 0402
3IY1	4822 117 13601	22kΩ 5% 0402
3IY2	3198 031 01540	150kΩ 5% 0402
3IY3	4822 117 11297	100kΩ 5% 0.1W
3IY4	4822 117 11297	100kΩ 5% 0.1W
3L03	4822 117 13545	100Ω 1% 0402
3L04	4822 117 13545	100Ω 1% 0402
3L05	4822 117 13545	100Ω 1% 0402
3L06	4822 117 13545	100Ω 1% 0402
3L08	3198 031 02720	2.7kΩ 5% 0.01W 0402
3L11	4822 117 13545	100Ω 1% 0402
3L12	4822 117 13543	470Ω 5% 0402
3L28	4822 117 13543	470Ω 5% 0402
3L29	3198 031 01510	150Ω 5% 0.01W 0402
3L30	3198 031 01510	150Ω 5% 0.01W 0402
3L31	3198 031 01510	150Ω 5% 0.01W 0402
3L32	4822 117 13543	470Ω 5% 0402
3L33	4822 117 13543	470Ω 5% 0402
3P00▲	4822 117 11748	Fuse 2.2Ω 5% 1206
3P01▲	4822 117 11748	Fuse 2.2Ω 5% 1206
3P02▲	4822 117 11151	1Ω 5%
3P03	4822 117 13602	2.2kΩ 5% 0.01W 0402
3P04	3198 031 04720	4.7kΩ 5% 0402
3P05	3198 031 05620	5.6kΩ 5% 0.01W 0402
3P06	4822 117 13545	100Ω 1% 0402
3P07	3198 031 02720	2.7kΩ 5% 0.01W 0402
3P07	4822 051 30272	2.7kΩ 5% 0.062W
3P08	3198 031 04720	4.7kΩ 5% 0402
3P11	4822 117 13546	47Ω 5% 0402
3P16	3198 031 04720	4.7kΩ 5% 0402
3P18	4822 117 13546	47Ω 5% 0402
3P22	4822 117 13545	100Ω 1% 0402
3P23	4822 117 13545	100Ω 1% 0402
3P24	3198 031 01530	15kΩ 5% 0.01W 0402
3P25	3198 031 03910	390Ω 1% 0402
3P26	4822 117 13543	470Ω 5% 0402
3P27	3198 031 01810	180Ω 5% 0402
3P28	3198 031 03910	390Ω 1% 0402
3P28	3198 031 08210	820Ω 5% 0.5W
3P29	4822 117 11297	100kΩ 5% 0.1W
3P30	4822 117 13545	100Ω 1% 0402
3P31	4822 117 13543	470Ω 5% 0402
3P32	3198 031 05610	560Ω 5% 0.01W 0402
3P33	4822 117 13548	1kΩ 5% 0402
3P34	4822 117 13546	47Ω 5% 0402
3P35	4822 117 13543	470Ω 5% 0402
3P36	4822 117 13548	1kΩ 5% 0402
3P40	3198 031 01210	120Ω 5% 0.01W 0402
3P44	4822 117 13545	100Ω 1% 0402
3P48	4822 117 13545	100Ω 1% 0402
3P49	3198 031 03910	390Ω 1% 0402
3P56	3198 031 01090	10Ω 5% 0.01W 0402
3P57	3198 031 06810	680Ω 5% 0.01W 0402
3P58	4822 117 13545	100Ω 1% 0402
3P59	4822 117 13545	100Ω 1% 0402
3P60	3198 031 06810	680Ω 5% 0.01W 0402
3P61	3198 031 02730	27kΩ 5% 0402
3P62	3198 031 01090	10Ω 5% 0.01W 0402
3P63	3198 031 06810	680Ω 5% 0.01W 0402
3P64	3198 031 04720	4.7kΩ 5% 0402
3P65	4822 117 13545	100Ω 1% 0402
3P66	4822 117 13545	100Ω 1% 0402
3P67	3198 031 04720	4.7kΩ 5% 0402
3P68	3198 031 04720	4.7kΩ 5% 0402
3P69	3198 031 04720	4.7kΩ 5% 0402
3P70	3198 031 04720	4.7kΩ 5% 0402
3P72	3198 031 04720	4.7kΩ 5% 0402
3P74▲	4822 117 11748	Fuse 2.2Ω 5% 1206
3P75	4822 117 13545	100Ω 1% 0402
3P76	3198 031 01090	10Ω 5% 0.01W 0402
3P85	3198 031 04720	4.7kΩ 5% 0402
3P86	4822 117 13606	10kΩ 5% 0.01W 0402
3P87	4822 117 13606	10kΩ 5% 0.01W 0402
3P88▲	2322 750 63908	3.9Ω 5% Fuse 1206
3P90	3198 031 05610	560Ω 5% 0.01W 0402
3P91	3198 031 05610	560Ω 5% 0.01W 0402
3P92	3198 031 05610	560Ω 5% 0.01W 0402
3P96	3198 031 04720	4.7kΩ 5% 0402
3P97	3198 031 04720	4.7kΩ 5% 0402
3P98	3198 031 01090	10Ω 5% 0.01W 0402
3P99	3198 031 06810	680Ω 5% 0.01W 0402
3PA0	4822 117 13596	220Ω 5% 0.01W 0402
3PA1	4822 117 13545	100Ω 1% 0402
3PA3	4822 117 13545	100Ω 1% 0402
3PA7	4822 117 13545	100Ω 1% 0402
3PA8	4822 117 13596	220Ω 5% 0.01W 0402
3PA9	3198 031 03930	39kΩ 5% 0402
3PB2	3198 031 01520	1.2kΩ 5% 0.01W 0402
3PB4	3198 031 01520	1.2kΩ 5% 0.01W 0402
3PB6	3198 031 01220	1.2kΩ 5% 0.01W 0402
3PB7	4822 117 13545	100Ω 1% 0402
3PB8	3198 031 01820	1.8kΩ 5% 0.01W 0402
3PB9	3198 031 03320	3.3kΩ 5% 0402

3PC0	3198 031 03320	3.3kΩ 5% 0402
3PC1	4822 117 13545	100Ω 1% 0402
3PC2	4822 117 13545	100Ω 1% 0402
3PC4	3198 031 06810	680Ω 5% 0.01W 0402
3PC5	3198 031 04720	4.7kΩ 5% 0402
3PC6	3198 031 03930	39kΩ 5% 0402
3PC7	4822 117 13596	220Ω 5% 0.01W 0402
3PC8	4822 117 13545	100Ω 1% 0402
3PD0	4822 117 13596	220Ω 5% 0.01W 0402
3PD2	4822 117 13545	100Ω 1% 0402
3PD3	3198 031 01820	1.8kΩ 5% 0.01W 0402
3PD5	3198 031 03320	3.3kΩ 5% 0402
3PD7	3198 031 01220	1.2kΩ 5% 0.01W 0402
3PD8	3198 031 03320	3.3kΩ 5% 0402
3PD9	3198 031 03320	3.3kΩ 5% 0402
3PE0	3198 031 01520	1.2kΩ 5% 0.01W 0402
3PE2	3198 031 01520	1.2kΩ 5% 0.01W 0402
3PE9	4822 117 13597	330Ω 5% 0402 0.01W
3PF0	3198 031 01210	120Ω 5% 0.01W 0402
3PF1	3198 031 01520	1.2kΩ 5% 0.01W 0402
3PF2	3198 031 02710	270Ω 5% 0.1W 0402
3PF3	3198 031 03320	3.3kΩ 5% 0402
3PF4	4822 117 13601	22kΩ 5% 0402
3PF5	4822 117 13548	1kΩ 5% 0402
3PF6	3198 031 05610	560Ω 5% 0.01W 0402
3PF7	4822 117 13543	470Ω 5% 0402
3PF7	4822 117 13545	100Ω 1% 0402
3PF8	3198 031 08210	820Ω 5% 0.5W
3PF9	3198 031 01210	120Ω 5% 0.01W 0402
3PG0	3198 031 05610	560Ω 5% 0.01W 0402
3PG1	3198 031 06890	68Ω 5% 0402
3PG2	3198 031 06810	680Ω 5% 0.01W 0402
3PG3	3198 031 06810	680Ω 5% 0.01W 0402
3PG4	3198 031 06810	680Ω 5% 0.01W 0402
3PG5	3198 031 06810	680Ω 5% 0.01W 0402
3PG6	3198 031 06810	680Ω 5% 0.01W 0402
3PG7	3198 031 04720	4.7kΩ 5% 0402
3PG8	4822 117 13548	1kΩ 5% 0402
3PH2	4822 117 13546	47Ω 5% 0402
3PH3	4822 117 13546	47Ω 5% 0402
3PH4	4822 117 13546	47Ω 5% 0402
3PH5	4822 117 13546	47Ω 5% 0402
3PH6	4822 117 13546	47Ω 5% 0402
3PH7	4822 117 13546	47Ω 5% 0402
3PH8	4822 117 13546	47Ω 5% 0402
3PH9	4822 117 13546	47Ω 5% 0402
3PI0	4822 117 13546	47Ω 5% 0402
3PJ0	3198 031 01090	10Ω 5% 0.01W 0402
3PJ1	3198 031 06810	680Ω 5% 0.01W 0402
3PJ2	4822 117 13597	330Ω 5% 0402 0.01W
3PJ3	3198 031 01210	120Ω 5% 0.01W 0402
3PJ4	3198 031 06810	680Ω 5% 0.01W 0402
3PJ5	3198 031 08210	820Ω 5% 0.5W
3PJ7	4822 117 13602	2.2kΩ 5% 0.01W 0402
3PJ8	3198 031 01820	1.8kΩ 5% 0.01W 0402
3PJ9	3198 031 04720	4.7kΩ 5% 0402
3T10	4822 117 13606	10kΩ 5% 0.01W 0402
3T11	4822 117 13606	10kΩ 5% 0.01W 0402
3T12	4822 117 13548	1kΩ 5% 0402
3T13	4822 117 13606	10kΩ 5% 0.01W 0402
3T14	3198 031 04730	47Ω 5% 0402
3T15	4822 117 13548	1kΩ 5% 0402
3T15	4822 117 13606	10kΩ 5% 0.01W 0402
3T16	4822 117 11297	100kΩ 5% 0.1W
3T17	4822 117 13606	10kΩ 5% 0.01W 0402
3T18	3198 031 02720	2.7kΩ 5% 0.01W 0402
3T19	4822 117 13596	220Ω 5% 0.01W 0402
3T20	2322 706 71002	1kΩ 1% 0402
3T22	3198 031 04720	4.7kΩ 5% 0402
3T23	4822 117 13548	1kΩ 5% 0402
3T24	2322 706 73902	3.9kΩ 1% 0402
3T25	3198 031 06820	6.8kΩ 5% 0.01W 0402
3T26	4822 117 13613	2.2Ω 5% 0603
3T27	4822 051 30109	10Ω 5% 0.062W
3T27	4822 117 13613	2.2Ω 5% 0603
3T28	4822 051 30109	10Ω 5% 0.062W
3T29	4822 117 13606	10kΩ 5% 0.01W 0402
3T30	4822 117 13606	10kΩ 5% 0.01W 0402
3T31	4822 117 13545	100Ω 1% 0402
3T32	4822 117 13548	1kΩ 5% 0402
3T33▲	5322 117 11726	10Ω 5%
3T51	4822 117 13548	1kΩ 5% 0402
3T52	4822 117 13606	10kΩ 5% 0.01W 0402
3T53	3198 031 04740	470kΩ 5% 0402
3T54	4822 117 13606	10kΩ 5% 0.01W 0402
3T55	4822 117 13606	10kΩ 5% 0.01W 0402
3T56	4822 117 13606	10kΩ 5% 0.01W 0402
3T57	4822 051 30101	100Ω 5% 0.062W
3T58	3198 031 04730	47Ω 5% 0402
3T59	4822 117 13606	10kΩ 5% 0.01W 0402
3T60	4822 117 13608	4.7Ω 5% 0603 0.62W
3U01	4822 051 30102	1kΩ 5% 0.062W
3U02	4822 117 13548	1kΩ 5% 0402
3U03	4822 117 13603	33kΩ 5% 0402
3U04	4822 051 20121	120Ω 5% 0.1W
3U05	4822 051 30102	1kΩ 5% 0.062W
3U05	4822 117 13548	1kΩ 5% 0402
3U06	4822 117 13543	470Ω 5% 0402
3U07	3198 031 02290	22Ω 5% 0.1W 0402
3U08	2322 706 71502	1.5kΩ 1% 0402
3U09	3198 031 05620	5.6kΩ 5% 0.01W 0402
3U10	3198 031 01210	120Ω 5% 0.01W 0402
3U10	4822 117 13596	220Ω 5% 0.01W 0402
3U11	4822 051 30121	120Ω 5% 0.062W
3U12	4822 117 13601	22kΩ 5% 0402
3U13	4822 117 13606	10kΩ 5% 0.01W 0402
3U14	4822 051 30102	1kΩ 5% 0.062W
3U15	2322 706 73302	3.3kΩ 1% 0402
3U16	3198 031 01210	120Ω 5% 0.01W 0402
3U17	3198 031 04780	4.7Ω 5% 0402
3U18	2322 704 61002	1kΩ 1%
3U18	2322 706 71002	1kΩ 1% 0402
3U19	3198 031 04720	4.7kΩ 5% 0402
3U20	2322 704 61002	1kΩ 1%
3U20	2322 706 71002	1kΩ 1% 0402
3U21	3198 031 04730	47Ω 5% 0402
3U22	3198 031 02710	270Ω 5% 0.1W 0402
3U23	3198 031 01090	10Ω 5% 0.01W 0402
3U24	4822 117 13601	22kΩ 5% 0402
3U25	3198 031 02240	220kΩ 5% 0.1W 0402
3U26	4822 117 13601	22kΩ 5% 0402
3U27	4822 117 13601	22kΩ 5% 0402
3U28	3198 031 04730	47Ω 5% 0402
3U29	4822 051 30109	10Ω 5% 0.062W
3U30	4822 051 20121	120Ω 5% 0.1W
3U31	4822 051 20121	120Ω 5% 0.1W
3U32	3198 031 01830	18kΩ 5% 0.01W 0402
3U33	4822 117 13606	10kΩ 5% 0.01W 0402
3U34	3198 031 04740	470kΩ 5% 0402
3U35	4822 117 13606	10kΩ 5% 0.01W 0402
3U36	4822 117 13602	2.2kΩ 5% 0.01W 0402
3U37	4822 117 13601	22kΩ 5% 0402
3U38	4822 117 13602	2.2kΩ 5% 0.01W 0402
3U39	4822 117 13601	22kΩ 5% 0402
3U40	3198 031 01540	150kΩ 5% 0402
3U41	4822 117 13548	1kΩ 5% 0402
3U42	4822 117 13606	10kΩ 5% 0.01W 0402
3U43	4822 117 13601	22kΩ 5% 0402
3U44	3198 031 01050	1MΩ 5% 0402
3U45	3198 031 01050	1MΩ 5% 0402
3U46	2322 706 74703	47kΩ 1% 0402
3U46	5322 117 13029	47kΩ 1% 0.063W 0603
3U51	9965 000 23109	22Ω 5% 0603
3U52	4822 051 30102	1kΩ 5% 0.062W
3U53	3198 031 01830	18kΩ 5% 0.01W 0402
3U54	4822 117 13545	100Ω 1% 0402
3U55	4822 051 30102	1kΩ 5% 0.062W
3U56	3198 031 04720	4.7kΩ 5% 0402
3U57	4822 117 13606	10kΩ 5% 0.01W 0402
3U60	4822 117 13548	1kΩ 5% 0402
3U61	4822 117 13606	10kΩ 5% 0.01W 0402
3U62	4822 117 13548	1kΩ 5% 0402
3U63	4822 117 13602	2.2kΩ 5% 0.01W 0402
3U64	4822 117 13548	1kΩ 5% 0402
3U65	4822 117 13548	1kΩ 5% 0402
3U66	4822 117 13606	10kΩ 5% 0.01W 0402
3U67	4822 117 13545	100Ω 1% 0402
3U68	4822 117 13606	10kΩ 5% 0.01W 0402
3U69	4822 117 13548	1kΩ 5% 0402
3U70	4822 051 30102	1kΩ 5% 0.062W
3V01	3198 031 01810	180Ω 5% 0402
3V02	3198 031 01810	180Ω 5% 0402
3V17	3198 031 01810	180Ω 5% 0402
3V18	3198 031 03910	390Ω 1% 0402
3V19	3198 031 01810	180Ω 5% 0402
3V20	3198 031 01810	180Ω 5% 0402
3V21	2350 033 11339	4 x 33Ω 5%
3V21	2350 033 11689	4x 68Ω 5% Netw.
3V22	2350 033 11339	4 x 33Ω 5%
3V22	2350 033 11689	4x 68Ω 5% Netw.
3V23	2350 033 11339	4 x 33Ω 5%
3V23	2350 033 11689	4x 68Ω 5% Netw.
3V24	2350 033 11339	4 x 33Ω 5%
3V24	2350 033 11689	4x 68Ω 5% Netw.
3V25	3198 031 01810	180Ω 5% 0402
3V26	3198 031 01810	180Ω 5% 0402
3V27	3198 031 01810	180Ω 5% 0402
3V28	3198 031 01810	180Ω 5% 0402
3V29	3198 031 01810	180Ω 5% 0402
3V30	3198 031 01810	180Ω 5% 0402
3V31	3198 031 01810	180Ω 5% 0402
3V32	3198 031 01810	180Ω 5% 0402
3V33	3198 031 01810	180Ω 5% 0402
3V34	3198 031 01810	180Ω 5% 0402
3V35	4822 117 13545	100Ω 1% 0402
3V36	4822 117 13545	100Ω 1% 0402
3V37	4822 117 13545	100Ω 1% 0402
3V38	4822 117 13545	100Ω 1% 0402
3V39	3198 031 04720	4.7kΩ 5% 0402
3V40	4822 117 13545	100Ω 1% 0402
3V50	4822 117 13606	10kΩ 5% 0.01W 0402
3V51	4822 117 13606	10kΩ 5% 0.01W 0402
3V52	3198 031 04730	47Ω 5% 0402
3V52	4822 117 13606	10kΩ 5% 0.01W 0402
3V53	3198 031 04730	47Ω 5% 0402
3V53	4822 117 13606	10kΩ 5% 0.01W 0402
3V54	4822 117 13606	10kΩ 5% 0.01W 0402
3V55	4822 117 13606	10kΩ 5% 0.01W 0402
3V56	4822 117 13545	100Ω 1% 0402
3Y00	4822 117 13545	100Ω 1% 0402
3Y01	4822 117 13545	100Ω 1% 0402
3Y02	4822 117 13545	100Ω 1% 0402
3Y03	4822 117 13545	100Ω 1% 0402
3Y04	4822 117 13602	2.2kΩ 5% 0.01W 0402
3Y05	4822 117 13545	100Ω 1% 0402
3Y06	4822 117 13543	470Ω 5% 0402
3Y06	4822 117 13545	100Ω 1% 0402
3Y07	4822 117 13545	100Ω 1% 0402
3Y08	4822 117 13545	100Ω 1% 0402
3Y09	4822 117 13545	100Ω 1% 0402
3Y10	4822 117 13545	100Ω 1% 0402
3Y11	4822 117 13545	100Ω 1% 0402
3Y12	4822 117 13545	100Ω 1% 0402
3Y13	4822 117 13543	470Ω 5% 0402
3Y13	4822 117 13545	100Ω 1% 0402
3Y14	3198 031 04720	4.7kΩ 5% 0402
3Y14	4822 051 30102	1kΩ 5% 0.062W
3Y14	4822 117 13548	1kΩ 5% 0402
3Y15	4822 051 30102	1kΩ 5% 0.062W
3Y15	4822 117 13548	1kΩ 5% 0402
3Y16	4822 051 30102	1kΩ 5% 0.062W
3Y16	4822 117 13548	1kΩ 5% 0402
3Y17	4822 117 13545	100Ω 1% 0402
3Y18	4822 117 13545	100Ω 1% 0402
3Y19	4822 117 13545	100Ω 1% 0402
3Y20	3198 031 06890	68Ω 5% 0402
3Y20	4822 117 12521	68Ω 1% 0.1W
3Y21	3198 031 06890	68Ω 5% 0402
3Y22	3198 031 06890	68Ω 5% 0402
3Y23	3198 031 06890	68Ω 5% 0402
3Y24	4822 117 11297	100kΩ 5% 0.1W
3Y25	4822 117 13545	100Ω 1% 0402
3Y27	4822 117 13545	100Ω 1% 0402
3Y28	4822 117 13545	100Ω 1% 0402
3Y29	3198 031 05620	5.6kΩ 5% 0.01W 0402
3Y30	3198 031 01530	15kΩ 5% 0.01W 0402
3Y34	4822 117 13545	100Ω 1% 0402
3Y35	4822 117 13545	100Ω 1% 0402
3Y36	4822 117 13545	100Ω 1% 0402
3Y37	3198 031 04720	4.7kΩ 5% 0402
3Y37	4822 117 13545	100Ω 1% 0402
3Y38	4822 117 13602	2.2kΩ 5% 0.01W 0402
3Y39	4822 117 13606	10kΩ 5% 0.01W 0402
3Y40	4822 117 13545	100Ω 1% 0402
3Z22	3198 031 04720	4.7kΩ 5% 0402
3Z23	4822 117 13545	100Ω 1% 0402
3Z27▲	4822 117 11151	1Ω 5%
3Z28▲	2422 086 00644	Fuse 2A T 125V
3Z28▲	4822 117 11151	1Ω 5%
3Z29	4822 117 13546	47Ω 5% 0402
3Z30	3198 031 04730	47Ω 5% 0402
3Z30	4822 117 13606	10kΩ 5% 0.01W 0402
3Z31	3198 031 04730	47Ω 5% 0402
3Z31	4822 117 13606	10kΩ 5% 0.01W 0402
3Z32	4822 117 13606	10kΩ 5% 0.01W 0402
3Z33	4822 117 13606	10kΩ 5% 0.01W 0402
3Z37	3198 031 04720	4.7kΩ 5% 0402
3Z55	4822 117 13545	100Ω 1% 0402
3Z56	4822 117 13548	1kΩ 5% 0402
9001	4822 117 13605	Jumper 0402
9002	4822 117 13605	Jumper 0402
9007	4822 117 13605	Jumper 0402
9010	4822 117 13605	Jumper 0402
9011▲	4822 117 13605	Jumper 0402
9012	4822 117 13605	Jumper 0402
9013	4822 117 13605	Jumper 0402
9016	4822 051 30008	Jumper 0603
9019	4822 117 13605	Jumper 0402
9020	4822 117 13605	Jumper 0402
9023	4822 117 13605	Jumper 0402
9024	4822 117 13605	Jumper 0402
9322	4822 117 13605	Jumper 0402
9410	4822 117 13605	Jumper 0402
9413	4822 117 13605	Jumper 0402
9416	4822 117 13605	Jumper 0402
9417	4822 117 13605	Jumper 0402
9418	4822 117 13605	Jumper 0402
9419	4822 117 13605	Jumper 0402
9420	4822 117 13605	Jumper 0402
9423	4822 117 13605	Jumper 0402
9424	4822 117 13605	Jumper 0402
9425	4822 117 13605	Jumper 0402

9426	4822 117 13605	Jumper 0402
9427	4822 117 13545	100Ω 1% 0402
9428	4822 117 13605	Jumper 0402
9702	4822 117 13605	Jumper 0402
9704	4822 117 13605	Jumper 0402
9706	4822 117 13605	Jumper 0402
9707	4822 117 13605	Jumper 0402
9708	4822 117 13605	Jumper 0402
9709	4822 117 13605	Jumper 0402
9710	4822 117 13605	Jumper 0402
9713	4822 117 13605	Jumper 0402
9714	4822 117 13605	Jumper 0402
9715	4822 117 13605	Jumper 0402
9716	4822 117 13605	Jumper 0402
9717	4822 117 13605	Jumper 0402
9718	4822 117 13605	Jumper 0402
9720	4822 117 13605	Jumper 0402
9721	4822 117 13605	Jumper 0402
9722	4822 117 13605	Jumper 0402
9723	4822 117 13605	Jumper 0402
9724	4822 117 13605	Jumper 0402
9727	4822 117 13605	Jumper 0402
9728	4822 117 13605	Jumper 0402
9730	4822 117 13605	Jumper 0402
9732	4822 117 13605	Jumper 0402
9750	4822 117 13605	Jumper 0402
9751	4822 117 13605	Jumper 0402
9752	4822 117 13605	Jumper 0402
9753	4822 117 13605	Jumper 0402
9754	4822 117 13605	Jumper 0402
9755	4822 117 13605	Jumper 0402
9756	4822 117 13605	Jumper 0402
9757	4822 117 13605	Jumper 0402
9758	4822 117 13605	Jumper 0402
9760	4822 117 13605	Jumper 0402
9761	4822 117 13605	Jumper 0402
9762	4822 117 13605	Jumper 0402
9763	4822 117 13605	Jumper 0402
9765	4822 117 13605	Jumper 0402
9766	4822 117 13605	Jumper 0402
9772	4822 117 13605	Jumper 0402
9773	4822 117 13605	Jumper 0402
9774	4822 117 13605	Jumper 0402
9775	4822 117 13605	Jumper 0402
9800	4822 117 13605	Jumper 0402
9801	4822 117 13605	Jumper 0402
9802	4822 117 13605	Jumper 0402
9803	4822 117 13605	Jumper 0402
9804	4822 117 13605	Jumper 0402
9805	4822 117 13605	Jumper 0402
9806	4822 117 13605	Jumper 0402
9808	4822 117 13605	Jumper 0402
9809	4822 117 13605	Jumper 0402
9811	4822 117 13605	Jumper 0402
9812	4822 117 13605	Jumper 0402
9813	2350 033 11689	4x 68Ω 5% Netw.
9814	2350 033 11689	4x 68Ω 5% Netw.
9815	2350 033 11229	4x 22Ω 5% Netw.
9815	4822 117 13605	Jumper 0402
9816	2350 033 11229	4x 22Ω 5% Netw.
9816	4822 117 13605	Jumper 0402
9817	2350 033 11229	4x 22Ω 5% Netw.
9817	4822 117 13605	Jumper 0402
9818	4822 117 13605	Jumper 0402
9819	2350 033 11229	4x 22Ω 5% Netw.
9820	2350 033 11229	4x 22Ω 5% Netw.
9820	4822 117 13605	Jumper 0402
9821	3198 031 06890	68Ω 5% 0402
9821	4822 117 13605	Jumper 0402
9822	3198 031 06890	68Ω 5% 0402
9822	4822 117 13605	Jumper 0402
9823	3198 031 06890	68Ω 5% 0402
9824	3198 031 06890	68Ω 5% 0402
9825	3198 031 06890	68Ω 5% 0402
9825	4822 117 13605	Jumper 0402
9826	3198 031 06890	68Ω 5% 0402
9826	4822 117 13605	Jumper 0402
9827	3198 031 06890	68Ω 5% 0402
9827	4822 117 13605	Jumper 0402
9A02	4822 117 13605	Jumper 0402
9A03	4822 117 13605	Jumper 0402
9A07	4822 117 13605	Jumper 0402
9A10	4822 117 13605	Jumper 0402
9A11	4822 117 13605	Jumper 0402
9A12	4822 117 13605	Jumper 0402
9A13	4822 117 13605	Jumper 0402
9A14	4822 117 13605	Jumper 0402
9A15	4822 117 13605	Jumper 0402
9A16	4822 117 13605	Jumper 0402
9A17	4822 117 13605	Jumper 0402
9A25	4822 117 13605	Jumper 0402
9A65	4822 117 13605	Jumper 0402
9C02	4822 117 13605	Jumper 0402
9E60	4822 117 13605	Jumper 0402
9E62	4822 117 13605	Jumper 0402
9E65	4822 117 13605	Jumper 0402
9E66	4822 117 13605	Jumper 0402
9E67	4822 117 13605	Jumper 0402
9E68	4822 117 13605	Jumper 0402
9E69	4822 117 13605	Jumper 0402
9E70	4822 117 13605	Jumper 0402
9E71	4822 117 13605	Jumper 0402
9E72	4822 117 13605	Jumper 0402
9E73	4822 117 13605	Jumper 0402
9E74	4822 117 13605	Jumper 0402
9E76	4822 117 13605	Jumper 0402
9E77	4822 117 13605	Jumper 0402
9I00	4822 117 13605	Jumper 0402
9I01	4822 117 13605	Jumper 0402
9I02	4822 117 13605	Jumper 0402
9I03	4822 117 13605	Jumper 0402
9I07	4822 117 13605	Jumper 0402
9I15	4822 117 13605	Jumper 0402
9I16	4822 117 13605	Jumper 0402
9I18	4822 117 13605	Jumper 0402
9I19	4822 117 13605	Jumper 0402
9I24	4822 117 13605	Jumper 0402
9I28	4822 117 13605	Jumper 0402
9I39	4822 117 13605	Jumper 0402
9I45	4822 117 13605	Jumper 0402
9I46	4822 117 13605	Jumper 0402
9I47	4822 117 13605	Jumper 0402
9I48	4822 117 13605	Jumper 0402
9I49	4822 117 13605	Jumper 0402
9I68	4822 117 13605	Jumper 0402
9I77	4822 117 13605	Jumper 0402
9I85	4822 117 13605	Jumper 0402
9IA1	4822 051 20008	Jumper 0805
9IA1	4822 117 13605	Jumper 0402
9IA3	4822 051 20008	Jumper 0805
9IA3	4822 117 13605	Jumper 0402
9IA5	4822 117 13605	Jumper 0402
9IA7	4822 117 13605	Jumper 0402
9ID0	4822 117 13605	Jumper 0402
9ID1	4822 117 13605	Jumper 0402
9ID3	4822 117 13605	Jumper 0402
9ID5	4822 117 13605	Jumper 0402
9ID8	4822 117 13605	Jumper 0402
9ID9	4822 117 13605	Jumper 0402
9P02	4822 117 13605	Jumper 0402
9P03	4822 117 13605	Jumper 0402
9P05	4822 117 13605	Jumper 0402
9P09	4822 117 13605	Jumper 0402
9P12	4822 117 13605	Jumper 0402
9P13	4822 117 13605	Jumper 0402
9P15	4822 117 13605	Jumper 0402
9P17	4822 117 13605	Jumper 0402
9P24	4822 117 13605	Jumper 0402
9P28	4822 117 13605	Jumper 0402
9P29	4822 117 13605	Jumper 0402
9P52	4822 117 13605	Jumper 0402
9P53	4822 117 13605	Jumper 0402
9P54	4822 117 13605	Jumper 0402
9P69	4822 117 13605	Jumper 0402
9P70	4822 117 13605	Jumper 0402
9P71	4822 117 13605	Jumper 0402
9P73	4822 117 13605	Jumper 0402
9P74	4822 117 13605	Jumper 0402
9P75	4822 117 13605	Jumper 0402
9PA2	4822 117 13605	Jumper 0402
9PA7	4822 117 13605	Jumper 0402
9PB1	4822 117 13605	Jumper 0402
9PB2	4822 117 13605	Jumper 0402
9PB4	4822 117 13605	Jumper 0402
9PB5	4822 117 13605	Jumper 0402
9PB8	4822 117 13605	Jumper 0402
9T01	4822 117 13601	22kΩ 5% 0402
9T02	4822 051 30223	22kΩ 5% 0.062W
9T02	4822 117 13601	22kΩ 5% 0402
9T04	4822 117 13605	Jumper 0402
9T06	4822 117 13605	Jumper 0402
9T07	4822 117 13605	Jumper 0402
9T08	4822 117 13605	Jumper 0402
9T09	4822 117 13605	Jumper 0402
9T10	4822 117 13605	Jumper 0402
9T11	4822 117 13605	Jumper 0402
9T12	4822 117 13605	Jumper 0402
9T14	4822 117 13605	Jumper 0402
9T50	4822 117 13605	Jumper 0402
9Y00	4822 117 13605	Jumper 0402
9Y01	4822 117 13605	Jumper 0402
9Y03	4822 117 13605	Jumper 0402
9Y05	4822 117 13605	Jumper 0402
9Y06	4822 117 13605	Jumper 0402
9Y12	4822 117 13605	Jumper 0402
9Y13	4822 117 13605	Jumper 0402
9Y14	4822 117 13605	Jumper 0402
9Y16	4822 117 13605	Jumper 0402

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5003	4822 157 11716	Bead 30Ω at 100MHz
5401	3198 018 56880	6.8µH 10% 0603
5403	2422 549 00195	Bead 40.4MHz
5404	4822 157 11506	Bead 120Ω at 100MHz
5405	4822 157 11506	Bead 120Ω at 100MHz
5406	3198 018 52280	2.2µF 10% 1008
5408	2422 549 44983	Trimmer 78MHz 5CCB
5411	4822 157 11892	0.22µH 10% 0805
5415	4822 157 11716	Bead 30Ω at 100MHz
5416	4822 157 11716	Bead 30Ω at 100MHz
5703	4822 157 11716	Bead 30Ω at 100MHz
5705	4822 157 11876	6.8µH 10% 0805
5713	4822 157 11716	Bead 30Ω at 100MHz
5714	4822 157 11716	Bead 30Ω at 100MHz
5719	4822 157 11716	Bead 30Ω at 100MHz
5720	4822 157 11716	Bead 30Ω at 100MHz
5722	4822 157 11716	Bead 30Ω at 100MHz
5723	4822 157 11716	Bead 30Ω at 100MHz
5726	4822 157 11716	Bead 30Ω at 100MHz
5728	4822 157 11716	Bead 30Ω at 100MHz
5750	4822 157 11716	Bead 30Ω at 100MHz
5751	4822 157 11716	Bead 30Ω at 100MHz
5752	4822 157 11716	Bead 30Ω at 100MHz
5753	4822 157 11716	Bead 30Ω at 100MHz
5755	4822 157 11716	Bead 30Ω at 100MHz
5756	4822 157 11716	Bead 30Ω at 100MHz
5757	4822 157 11716	Bead 30Ω at 100MHz
5758	4822 157 11716	Bead 30Ω at 100MHz
5759	4822 157 11716	Bead 30Ω at 100MHz
5760	4822 157 11716	Bead 30Ω at 100MHz
5761	4822 157 11716	Bead 30Ω at 100MHz
5762	4822 157 11716	Bead 30Ω at 100MHz
5763	4822 157 11716	Bead 30Ω at 100MHz
5764	4822 157 11716	Bead 30Ω at 100MHz
5767	4822 157 11716	Bead 30Ω at 100MHz
5768	4822 157 11716	Bead 30Ω at 100MHz
5769	4822 157 11716	Bead 30Ω at 100MHz
5770	4822 157 11716	Bead 30Ω at 100MHz
5771	4822 157 11716	Bead 30Ω at 100MHz
5772	4822 157 11716	Bead 30Ω at 100MHz
5775	4822 157 11716	Bead 30Ω at 100MHz
5777	4822 157 11716	Bead 30Ω at 100MHz
5778	4822 157 11876	6.8µH 10% 0805
5779	4822 157 11716	Bead 30Ω at 100MHz
5800	4822 157 11716	Bead 30Ω at 100MHz
5801	4822 157 11716	Bead 30Ω at 100MHz
5A00	4822 157 11716	Bead 30Ω at 100MHz
5A01	4822 157 11716	Bead 30Ω at 100MHz
5A02	4822 157 11716	Bead 30Ω at 100MHz
5A03	4822 157 11716	Bead 30Ω at 100MHz
5A06	4822 157 11716	Bead 30Ω at 100MHz
5A19	4822 157 11828	22µH 20% 0805
5E00	4822 156 21729	Bead 1kΩ 100MHz 0805
5E01	2422 549 42896	Bead 120Ω 100MHz
5E01	4822 156 21729	Bead 1kΩ 100MHz 0805
5E02	4822 156 21729	Bead 1kΩ 100MHz 0805
5E03	4822 156 21729	Bead 1kΩ 100MHz 0805
5E50	2422 549 43062	Bead 600Ω at 100MHz
5E50	4822 157 11499	Bead 60Ω at 100MHz
5E51	2422 549 42896	Bead 120Ω 100MHz
5E51	2422 549 43062	Bead 600Ω at 100MHz
5E52	2422 549 43062	Bead 600Ω at 100MHz
5E53	2422 535 94134	10µH 20% 0805
5E53	2422 536 00779	10µH 20%
5E54	2422 549 43062	Bead 600Ω at 100MHz
5E54	4822 157 11499	Bead 60Ω at 100MHz
5E55	2422 549 43062	Bead 600Ω at 100MHz
5E58	2422 549 43062	Bead 600Ω at 100MHz
5I01	4822 157 11876	6.8µH 10% 0805
5I05	4822 157 11716	Bead 30Ω at 100MHz
5I06	4822 157 11716	Bead 30Ω at 100MHz
5I12	4822 157 11716	Bead 30Ω at 100MHz
5I13	4822 157 11716	Bead 30Ω at 100MHz
5I21	4822 157 11716	Bead 30Ω at 100MHz
5I22	4822 157 11716	Bead 30Ω at 100MHz
5I30	4822 157 11716	Bead 30Ω at 100MHz
5I31	4822 157 11716	Bead 30Ω at 100MHz
5I32	4822 157 11716	Bead 30Ω at 100MHz
5I33	4822 157 11716	Bead 30Ω at 100MHz
5I34	4822 157 11716	Bead 30Ω at 100MHz
5I35	4822 157 11716	Bead 30Ω at 100MHz
5I36	3198 018 34770	0.47µH 10% 0805
5I36	4822 157 11892	0.22µH 10% 0805
5I37	3198 018 34770	0.47µH 10% 0805
5I37	4822 157 11892	0.22µH 10% 0805
5I38	3198 018 34770	0.47µH 10% 0805
5I38	4822 157 11892	0.22µH 10% 0805
5I39	4822 157 11716	Bead 30Ω at 100MHz
5I40	4822 157 11716	Bead 30Ω at 100MHz
5I41	4822 157 11716	Bead 30Ω at 100MHz

5I42	4822 156 21729	Bead 1kΩ 100MHz 0805
5I45	4822 157 11716	Bead 30Ω at 100MHz
5I46	4822 157 11716	Bead 30Ω at 100MHz
5I47	4822 157 11716	Bead 30Ω at 100MHz
5L02	3198 018 51080	1µH 10% 0603
5L02	3198 018 54770	0.47µF 10% 0603
5L04	3198 018 54770	0.47µF 10% 0603
5L06	3198 018 51080	1µH 10% 0603
5L06	3198 018 54770	0.47µF 10% 0603
5L13	4822 156 21729	Bead 1kΩ 100MHz 0805
5L14	4822 156 21729	Bead 1kΩ 100MHz 0805
5L15	4822 156 21729	Bead 1kΩ 100MHz 0805
5L16	4822 157 11716	Bead 30Ω at 100MHz
5L17	4822 157 11716	Bead 30Ω at 100MHz
5L18	4822 157 11716	Bead 30Ω at 100MHz
5P00	4822 157 11716	Bead 30Ω at 100MHz
5P01	4822 157 11716	Bead 30Ω at 100MHz
5P02	3198 018 32770	0.27µH 10% 0805
5P03	4822 157 11716	Bead 30Ω at 100MHz
5P04	3198 018 56880	6.8µH 10% 0603
5P06	4822 157 10586	2.2µH 10% 0805
5P07	2422 549 00195	Bead 40.4MHz
5P08	2422 549 44983	Trimmer 78MHz 5CCB
5P09	4822 157 11716	Bead 30Ω at 100MHz
5P10	4822 157 11716	Bead 30Ω at 100MHz
5P51	4822 157 11716	Bead 30Ω at 100MHz
5PA0	4822 157 71694	0.82µH 10%
5PA1	3198 018 31290	12µH 10%
5PA2	4822 157 10977	4.7µH 10%
5PA3	4822 157 10977	4.7µH 10%
5PA4	4822 157 71694	0.82µH 10%
5PA5	3198 018 31290	12µH 10%
5PA6	3198 018 31290	12µH 10%
5PA7	3198 018 31290	12µH 10%
5PA8	3198 018 31290	12µH 10%
5PA9	4822 157 11716	Bead 30Ω at 100MHz
5PB0	4822 157 11716	Bead 30Ω at 100MHz
5T02	4822 157 71206	Bead 600Ω 100MHz
5T03	2422 535 94134	10µH 20% 0805
5T04	4822 157 71206	Bead 600Ω 100MHz
5T10	2422 536 00779	10µH 20%
5T11	2422 535 94995	10µF 20% 10145
5T14	2422 549 44197	Bead 220Ω at 100MHz
5T15	2422 549 44197	Bead 220Ω at 100MHz
5T20	4822 157 71206	Bead 600Ω 100MHz
5T22	4822 157 71206	Bead 600Ω 100MHz
5T25	2422 535 94134	10µH 20% 0805
5U01	3104 308 20661	Transf. BD13118-02
5U02	2422 535 94134	10µH 20% 0805
5U02	2422 536 00779	10µH 20%
5U03	2422 549 44197	Bead 220Ω at 100MHz
5U03	4822 157 11716	Bead 30Ω at 100MHz
5U04	2422 549 44197	Bead 220Ω at 100MHz
5U04	4822 157 11716	Bead 30Ω at 100MHz
5U05	2422 535 94134	10µH 20% 0805
5U05	2422 536 00779	10µH 20%
5U06	2422 535 94134	10µH 20% 0805
5U06	2422 536 00779	10µH 20%
5Y00	4822 157 11716	Bead 30Ω at 100MHz
5Y01	4822 157 11716	Bead 30Ω at 100MHz
5Y02	2422 549 44197	Bead 220Ω at 100MHz
5Y03	2422 549 44197	Bead 220Ω at 100MHz
5Y06	4822 157 11716	Bead 30Ω at 100MHz
5Y07	4822 157 11716	Bead 30Ω at 100MHz
5Y11	4822 157 11716	Bead 30Ω at 100MHz
5Y12	4822 157 11716	Bead 30Ω at 100MHz
5Y13	4822 157 11716	Bead 30Ω at 100MHz
5Y14	4822 157 11716	Bead 30Ω at 100MHz
5Y15	4822 157 11716	Bead 30Ω at 100MHz
5Y16	4822 157 11716	Bead 30Ω at 100MHz
5Y17	4822 157 11716	Bead 30Ω at 100MHz
5Y18	4822 157 11716	Bead 30Ω at 100MHz
5Y19	2422 549 43769	Bead 30Ω at 100MHz
5Y19	4822 157 11716	Bead 30Ω at 100MHz
5Y20	4822 157 11716	Bead 30Ω at 100MHz
5Y21	4822 117 10353	150Ω 1% 0.1W
5Y21	4822 157 11716	Bead 30Ω at 100MHz
5Y22	4822 117 10353	150Ω 1% 0.1W
5Y22	4822 157 11716	Bead 30Ω at 100MHz
5Y23	4822 157 11716	Bead 30Ω at 100MHz
5Z01	2422 549 45325	Bead 67Ω at 100MHz
5Z02	2422 549 45325	Bead 67Ω at 100MHz
5Z03	2422 549 45325	Bead 67Ω at 100MHz
5Z04	2422 549 45325	Bead 67Ω at 100MHz
5Z05	2422 549 45325	Bead 67Ω at 100MHz
5Z06	2422 549 44197	Bead 220Ω at 100MHz
5Z07	2422 549 44197	Bead 220Ω at 100MHz
5Z08	2422 549 44197	Bead 220Ω at 100MHz
5Z09	2422 549 44197	Bead 220Ω at 100MHz

6001	4822 130 80622	BAT54

6002	4822 130 11397	BAS316
6003	4822 130 80622	BAT54
6004	4822 130 80622	BAT54
6005	4822 130 11422	PLVA2650A
6006	4822 130 11564	UDZ3.9B
6403	9340 552 30115	BA591
6701	4822 130 11397	BAS316
6702	4822 130 11397	BAS316
6703	4822 130 11397	BAS316
6705	4822 130 11397	BAS316
6710	4822 130 11397	BAS316
6711	4822 130 11397	BAS316
6712	4822 130 11397	BAS316
6713	4822 130 11397	BAS316
6714	4822 130 11397	BAS316
6715	4822 130 11397	BAS316
6717	4822 130 11397	BAS316
6718	4822 130 11397	BAS316
6719	9322 128 69685	S1D
6720	4822 130 11397	BAS316
6721	4822 130 11397	BAS316
6722	4822 130 11397	BAS316
6723	4822 130 11397	BAS316
6A00	4822 130 11551	UDZS10B
6A01	4822 130 11397	BAS316
6A02	4822 130 10838	UDZ3.3B
6A02	9322 159 70685	MM3Z9V1
6E51	4822 130 11397	BAS316
6E52	4822 130 11397	BAS316
6E53	4822 130 11397	BAS316
6E54	4822 130 11397	BAS316
6E55	4822 130 11397	BAS316
6E56	4822 130 11397	BAS316
6I01	4822 130 10328	BAV99W
6I06	4822 130 10328	BAV99W
6I07	4822 130 10328	BAV99W
6I08	4822 130 11423	PLVA2656A
6I09	4822 130 11423	PLVA2656A
6I10	4822 130 11397	BAS316
6I11	4822 130 11397	BAS316
6I12	4822 130 11397	BAS316
6I13	4822 130 11397	BAS316
6I14	4822 130 10328	BAV99W
6I15	4822 130 10328	BAV99W
6I16	4822 130 10328	BAV99W
6I17	4822 130 10328	BAV99W
6I18	4822 130 10328	BAV99W
6I19	4822 130 10328	BAV99W
6I20	4822 130 10328	BAV99W
6I21	4822 130 10328	BAV99W
6I22	4822 130 11416	PDZ6.8B
6I23	4822 130 11416	PDZ6.8B
6I24	4822 130 11416	PDZ6.8B
6I25	4822 130 11416	PDZ6.8B
6I26	4822 130 11416	PDZ6.8B
6I27	4822 130 11416	PDZ6.8B
6I28	4822 130 11416	PDZ6.8B
6I29	4822 130 11416	PDZ6.8B
6I30	4822 130 11416	PDZ6.8B
6I31	4822 130 11416	PDZ6.8B
6I32	4822 130 11416	PDZ6.8B
6I33	4822 130 11416	PDZ6.8B
6I35	4822 130 11416	PDZ6.8B
6I36	4822 130 11416	PDZ6.8B
6I37	4822 130 11416	PDZ6.8B
6I38	4822 130 11416	PDZ6.8B
6I39	4822 130 11416	PDZ6.8B
6I40	4822 130 11416	PDZ6.8B
6I41	4822 130 11416	PDZ6.8B
6I42	4822 130 11416	PDZ6.8B
6I43	4822 130 11416	PDZ6.8B
6I44	4822 130 11416	PDZ6.8B
6I45	4822 130 11416	PDZ6.8B
6I46	4822 130 11416	PDZ6.8B
6I47	4822 130 11416	PDZ6.8B
6I48	4822 130 11416	PDZ6.8B
6I49	9322 129 41685	BZM55-C12
6I50	4822 130 11416	PDZ6.8B
6I51	4822 130 11416	PDZ6.8B
6I52	4822 130 11416	PDZ6.8B
6I53	4822 130 11416	PDZ6.8B
6I54	4822 130 11416	PDZ6.8B
6I55	4822 130 11416	PDZ6.8B
6I56	4822 130 11416	PDZ6.8B
6I61	4822 130 11416	PDZ6.8B
6I63	4822 130 11397	BAS316
6I64	4822 130 11397	BAS316
6I65	4822 130 11397	BAS316
6I66	4822 130 11397	BAS316
6I68	4822 130 11416	PDZ6.8B
6I69	4822 130 11416	PDZ6.8B
6I70	4822 130 11416	PDZ6.8B
6I75	4822 130 11416	PDZ6.8B
6I77	4822 130 11416	PDZ6.8B

6I90	4822 130 11416	PDZ6.8B
6I91	4822 130 11416	PDZ6.8B
6I92	4822 130 11416	PDZ6.8B
6I93	4822 130 11416	PDZ6.8B
6I99	4822 130 11422	PLVA2650A
6I99	4822 130 11423	PLVA2656A
6IA0	9322 129 41685	BZM55-C12
6IA7	4822 130 11397	BAS316
6P03	9340 552 30115	BA591
6P10	9322 102 64685	UDZ2.7B
6PA1	4822 130 11397	BAS316
6PB1	4822 130 11397	BAS316
6PB2	4822 130 11397	BAS316
6PB3	4822 130 11397	BAS316
6PB4	4822 130 11397	BAS316
6PB5	4822 130 11397	BAS316
6PB6	4822 130 11397	BAS316
6PB7	4822 130 11397	BAS316
6PB8	4822 130 11397	BAS316
6PB9	4822 130 11397	BAS316
6T01	4822 130 11397	BAS316
6T02	4822 130 11397	BAS316
6T03	4822 130 11397	BAS316
6T04	4822 130 11397	BAS316
6T08	9340 548 71115	PDZ33B
6T10	4822 130 11397	BAS316
6T11	9340 548 58115	PDZ9.1B
6U01	4822 130 11397	BAS316
6U03	4822 130 11397	BAS316
6U04	4822 130 11397	BAS316
6U05	9322 129 41685	BZM55-C12
6U06	9322 203 37685	BZG05C3V9
6U07	4822 130 11416	PDZ6.8B
6U08	4822 130 80622	BAT54
6U09	4822 130 80622	BAT54
6U10	4822 130 11522	UDZ15B
6U11	4822 130 11397	BAS316
6U12	9340 548 52115	PDZ5.1B
6U13	9340 548 58115	PDZ9.1B
6U14	4822 130 10328	BAV99W
6U14	4822 130 11397	BAS316
6U15	4822 130 11397	BAS316
6U16	9340 548 52115	PDZ5.1B
6U17	4822 130 11416	PDZ6.8B
6V05	9322 085 77685	TLMG3100
6Z00	3198 020 55680	BZX384-C5V6

7001	9352 684 81557	SAA5801H/015
7002	3198 010 42320	BC857BW
7003	3198 010 42310	BC847BW
7004	3198 010 42310	BC847BW
7005	9322 172 45668	LF33ABDT
7006		For SW see item 0601
7007	9322 157 20668	MSM51V18165F-60J
7008	3198 010 42310	BC847BW
7009	3198 010 42310	BC847BW
7010	3198 010 42320	BC857BW
7011	9322 130 41668	M24C64-WMN6
7012	9322 199 93668	M29W400DT-55N6
7013	3198 010 42310	BC847BW
7014	3198 010 42320	BC857BW
7017	9340 310 30215	PDTC144ET
7018	9352 115 40118	74LVC245APW
7019	9352 115 40118	74LVC245APW
7020	3198 010 42310	BC847BW
7021	9340 425 30115	BC847BPN
7022	3198 010 42320	BC857BW
7022	9340 310 30215	PDTC144ET
7320	3198 010 42310	BC847BW
7322	3198 010 42310	BC847BW
7323	9352 625 24518	TDA9321H/N2
7402	3198 010 42310	BC847BW
7403	3198 010 42310	BC847BW
7407	3198 010 42320	BC857BW
7410	3198 010 42310	BC847BW
7411	3198 010 42310	BC847BW
7414	3198 010 42310	BC847BW
7415	3198 010 42310	BC847BW
7701	9322 170 14668	LF15ABDT
7703	3198 010 42310	BC847BW
7705	3198 010 42310	BC847BW
7706	3198 010 70400	74LVC1G14GW
7707	3198 010 42310	BC847BW
7708	3198 010 42310	BC847BW
7709	3198 010 42310	BC847BW
7710	3198 010 42310	BC847BW
7711	2422 486 80938	Socket 32p f PLCC
7711		For SW see item 0605
7712	9351 870 00118	74HC573PW
7713	9352 688 09557	SAA4978H/V204
7714	9965 000 02179	MS81V04160-25TB

7715	4822 209 73852	PMBT2369
7717	4822 209 73852	PMBT2369
7719	9322 206 19672	MSM56V16160F-7T3-FG
7720	9322 207 36702	T6TX5EF-0001
7725	4822 209 73852	PMBT2369
7752	9322 202 21671	T6TU5XB-0001
7753	9322 206 19672	MSM56V16160F-7T3-FG
7760	9352 730 86557	SAA4998H/V1
7772	9322 170 14668	LF15ABDT
7773	9322 179 78668	LF18ABDT
7774	9322 142 88668	LF25CDT
7A00	4822 209 30095	LM833D
7A01	3198 010 42310	BC847BW
7A02	9322 196 03702	MSP3411G-QI-B8V3
7A03	4822 209 30095	LM833D
7A04	4822 130 60373	BC856B
7A06	5322 209 16349	TDA7309D
7A07	9322 183 05668	TS482ID
7A08	9340 425 20115	BC847BS
7A09	4822 130 60373	BC856B
7A10	9340 425 20115	BC847BS
7A31	9340 425 20115	BC847BS
7E01	9322 142 88668	LF25CDT
7E02		For SW see item 0602
7E03	9352 687 21165	74LVC1G126GW
7E04	9352 687 20125	74LVC1G125GW
7E05	9322 170 14668	LF15ABDT
7E10	9352 686 35118	PCA9515DP
7E12	9340 425 20115	BC847BS
7E23	9322 181 72671	AD9883AKST-110
7E24	9322 205 36668	AD9283BRSZ-50
7E25	3198 010 42320	BC857BW
7E26	3198 010 42320	BC857BW
7E27	3198 010 42320	BC857BW
7I01	9340 425 20115	BC847BS
7I02	9340 425 20115	BC847BS
7I03	9340 425 20115	BC847BS
7I04	3198 010 42310	BC847BW
7I05	9340 425 30115	BC847BPN
7I07	4822 130 60142	BC869
7I09	3198 010 42310	BC847BW
7I12	9351 869 40118	74HC4053PW
7I17	9322 116 87668	TEA6422D
7I18	9322 183 61682	SII907BCQ52
7I19		For SW see item 0603
7I20	9351 869 40118	74HC4053PW
7I21	9340 425 30115	BC847BPN
7I22	3198 010 42310	BC847BW
7I23	9340 425 20115	BC847BS
7I26	3198 010 42320	BC857BW
7I27	3198 010 42320	BC857BW
7I28	3198 010 42320	BC857BW
7I29	3198 010 42320	BC857BW
7I30	3198 010 42320	BC857BW
7I31	3198 010 42320	BC857BW
7I32	9351 869 40118	74HC4053PW
7I33	9351 869 40118	74HC4053PW
7I35	3198 010 42310	BC847BW
7I36	3198 010 42310	BC847BW
7I37	3198 010 42320	BC857BW
7I38	3198 010 42310	BC847BW
7I44	9340 425 20115	BC847BS
7I45	4822 130 11155	PDTC114ET
7I49	9340 310 30215	PDTC144ET
7I50	9340 425 30115	BC847BPN
7I51	9340 560 35235	BSH112
7I52	9340 560 35235	BSH112
7I53	9340 425 30115	BC847BPN
7I55	4822 209 12776	TDA8601T/C1
7I55	4822 209 16095	BA7657F
7I56	3198 010 42310	BC847BW
7I56	3198 010 42320	BC857BW
7I57	3198 010 42310	BC847BW
7I57	3198 010 42320	BC857BW
7I58	3198 010 42310	BC847BW
7I58	3198 010 42320	BC857BW
7I62	3198 010 42310	BC847BW
7I64	3198 010 42310	BC847BW
7I71	9340 425 30115	BC847BPN
7L01	9322 181 72671	AD9883AKST-110
7L02	4822 209 17398	LD1117DT33
7P00	3198 010 42310	BC847BW
7P04	3198 010 42320	BC857BW
7P05	3198 010 42310	BC847BW
7P06	3198 010 42310	BC847BW
7P07	9340 425 20115	BC847BS
7P08	3198 010 42310	BC847BW
7P09	9352 625 24518	TDA9321H/N2
7P52	9340 425 20115	BC847BS
7P53	9340 425 10115	BC857BS
7P54	4822 209 12776	TDA8601T/C1
7P54	9322 208 56668	BA7609F
7P55	9350 399 00118	TDA9820T/V1
7P56	4822 209 17345	M62320FP
7P58	9340 425 20115	BC847BS
7P59	9340 425 20115	BC847BS
7P60	9352 690 58125	74LVC1G66GW
7P61	9340 425 20115	BC847BS
7P62	9352 690 58125	74LVC1G66GW
7P63	3198 010 42320	BC857BW
7PA0	3198 010 42310	BC847BW
7PA1	3198 010 42310	BC847BW
7PA2	3198 010 42310	BC847BW
7PA5	3198 010 42310	BC847BW
7PA6	9352 639 83557	SAB9083H/N4
7PA7	3198 010 42310	BC847BW
7PA8	3198 010 42310	BC847BW
7PA9	3198 010 42310	BC847BW
7PB1	9352 683 81115	74LVC1G32GW
7PB2	3198 010 42310	BC847BW
7PB5	3198 010 42310	BC847BW
7PB6	3198 010 42310	BC847BW
7T01	9322 160 70668	SI4936ADY
7T04	9322 182 77668	L6910
7T10	9340 425 20115	BC847BS
7T11	9340 425 30115	BC847BPN
7T12	3198 010 42310	BC847BW
7T13	9340 425 30115	BC847BPN
7U01	4822 130 60373	BC856B
7U02	4822 130 60373	BC856B
7U03	9322 091 04668	SI4410DY
7U04	9322 091 04668	SI4410DY
7U05	3198 010 42320	BC857BW
7U06	9340 425 20115	BC847BS
7U07	9340 425 30115	BC847BPN
7U08	4822 130 42804	BC817-25
7U09	4822 130 42804	BC817-25
7U10	3198 010 42310	BC847BW
7U11	3198 010 42310	BC847BW
7U12	3198 010 42310	BC847BW
7U13	9340 425 30115	BC847BPN
7V01	9322 200 14671	EP1C12F256C8
7V03	9322 206 19672	MSM56V16160F-7T3-FG
7V04	9340 425 20115	BC847BS
7Y01	4822 130 10255	MUN2213
7Y01	9340 310 30215	PDTC144ET
7Y02	3198 010 42320	BC857BW
7Z00	3198 010 42310	BC847BW
7Z01	9322 204 10685	SI3441BDV

Side I/O Panel [D] (FTL2.1E Top)

Various

1001	2422 026 05133	Connector SVHS 4p f
1002	4822 267 10975	Soc. CINCH f YeWhRd
1010	4822 267 31014	Soc. headphone
1M36	2422 025 17179	Connector 11p m

⊣⊢

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

⊣WW⊢

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

⊣▷⊢

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

Top Control Panel [E] (FTL2.1E Top)

Various

0345	2422 025 16544	Connector 6p m
1014	3104 328 28921	Top control 2K4
1701	4822 276 13775	Switch 1p 0.1A 12V
1702	4822 276 13775	Switch 1p 0.1A 12V
1703	4822 276 13775	Switch 1p 0.1A 12V
1704	4822 276 13775	Switch 1p 0.1A 12V
1705	4822 276 13775	Switch 1p 0.1A 12V
1710	4822 276 14007	Switch 2p 0.1A 12V
8345	3104 311 07041	Cable 6P/1000/6P

⊣WW⊢

3008	4822 117 10845	620Ω 1% 0.1W
3010	4822 117 11534	1.1kΩ 1% 0.1W
3011	4822 117 11951	2kΩ 1% 0.1W
3013	4822 117 13528	200Ω 1% 0.125W 0805
3014	3198 031 03910	390Ω 1% 0402
3017	4822 051 30339	33Ω 5% 0.062W
3018	4822 051 30339	33Ω 5% 0.062W
3019	4822 051 30339	33Ω 5% 0.062W
3020	4822 051 30339	33Ω 5% 0.062W
3021	4822 051 30339	33Ω 5% 0.062W
3022	4822 051 30339	33Ω 5% 0.062W
3023	4822 051 30339	33Ω 5% 0.062W
3024	4822 051 30339	33Ω 5% 0.062W
3025	4822 051 30339	33Ω 5% 0.062W
3026	4822 051 30339	33Ω 5% 0.062W
3027	4822 051 30339	33Ω 5% 0.062W
3028	4822 051 30339	33Ω 5% 0.062W
3999	4822 117 13602	2.2kΩ 5% 0.01W 0402
9000	4822 117 13605	Jumper 0402

⊣▷⊢

6001	9322 198 19685	SML512BC2T
6002	9322 198 19685	SML512BC2T
6003	9322 198 19685	SML512BC2T
6004	9322 198 19685	SML512BC2T
6005	9322 198 19685	SML512BC2T
6006	9322 198 19685	SML512BC2T
6007	9322 198 19685	SML512BC2T
6008	9322 198 19685	SML512BC2T
6009	9322 198 19685	SML512BC2T
6010	9322 198 19685	SML512BC2T
6011	9322 198 19685	SML512BC2T
6012	9322 198 19685	SML512BC2T

SCART3 Panel [H] (FTL2.1E Top)

Various

1003	2422 025 14911	Socket Euro 21p f
1M07	4822 267 10637	Connector 5p
1M36	2422 025 10655	Connector 11p m
1M37	2422 025 10655	Connector 11p m

⊣⊢

2500	2022 552 05679	1µF 10% 16V 0805
2501	2020 552 94427	100pF 5% 50V
2502	2022 552 05679	1µF 10% 16V 0805
2503	2020 552 94427	100pF 5% 50V
2504	2022 552 05679	1µF 10% 16V 0805
2505	2022 552 05679	1µF 10% 16V 0805
2506	2238 586 59812	100nF 20% 50V 0603
2507	5322 126 11578	1nF 10% 50V 0603

2508	2022 552 05679	1µF 10% 16V 0805
2509	2238 586 59812	100nF 20% 50V 0603
2510	4822 126 14241	330pF 0603 50V
2511	2238 586 59812	100nF 20% 50V 0603
2512	2238 586 59812	100nF 20% 50V 0603
2513	2238 586 59812	100nF 20% 50V 0603
2515	2022 552 05679	1µF 10% 16V 0805
2516	2022 552 05679	1µF 10% 16V 0805
2517	2022 552 05679	1µF 10% 16V 0805

3500	4822 051 30101	100Ω 5% 0.062W
3501	4822 051 30101	100Ω 5% 0.062W
3502	4822 051 30223	22kΩ 5% 0.062W
3503	4822 051 30101	100Ω 5% 0.062W
3504	4822 051 30101	100Ω 5% 0.062W
3505	4822 051 30223	22kΩ 5% 0.062W
3506	4822 051 30759	75Ω 5% 0.062W
3507	4822 051 30759	75Ω 5% 0.062W
3508	4822 051 30759	75Ω 5% 0.062W
3509	4822 051 30101	100Ω 5% 0.062W
3510	4822 051 30759	75Ω 5% 0.062W
3511	4822 051 30479	47Ω 5% 0.062W
3512	4822 051 30479	47Ω 5% 0.062W
3513	4822 051 30479	47Ω 5% 0.062W
3514	4822 051 30479	47Ω 5% 0.062W
3515	4822 051 30479	47Ω 5% 0.062W
3516	4822 051 30479	47Ω 5% 0.062W
3517	4822 117 12925	47kΩ 1% 0.063W 0603
3522	4822 051 30272	2.7kΩ 5% 0.062W
3523	4822 051 30223	22kΩ 5% 0.062W
3524	4822 051 30479	47Ω 5% 0.062W
3525	4822 051 30102	1kΩ 5% 0.062W
3526	5322 117 13056	8.2kΩ 1% 0.063W 0603
3527	4822 051 30683	68kΩ 5% 0.062W
3528	4822 051 30223	22kΩ 5% 0.062W
3529	4822 051 30102	1kΩ 5% 0.062W
3535	4822 051 30479	47Ω 5% 0.062W
3536	4822 051 30103	10kΩ 5% 0.062W
3543	4822 051 30759	75Ω 5% 0.062W
3599	4822 051 30102	1kΩ 5% 0.062W
3999	4822 051 30102	1kΩ 5% 0.062W
9502	4822 051 30008	Jumper 0603
9508	4822 051 30008	Jumper 0603
9509	3198 036 90010	Wire 0.58mm
9510	3198 036 90010	Wire 0.58mm
9511	3198 036 90010	Wire 0.58mm
9512	3198 036 90010	Wire 0.58mm
9513	3198 036 90010	Wire 0.58mm
9514	3198 036 90010	Wire 0.58mm
9515	3198 036 90010	Wire 0.58mm
9521	4822 051 30008	Jumper 0603
9523	3198 036 90010	Wire 0.58mm
9524	4822 051 30008	Jumper 0603
9525	3198 036 90010	Wire 0.58mm
9526	3198 036 90010	Wire 0.58mm

6500	4822 130 11416	PDZ6.8B
6501	4822 130 11416	PDZ6.8B
6502	4822 130 11416	PDZ6.8B
6503	4822 130 11416	PDZ6.8B
6504	4822 130 11397	BAS316
6505	4822 130 11416	PDZ6.8B
6506	4822 130 11416	PDZ6.8B
6507	9322 129 41685	BZM55-C12
6508	4822 130 11551	UDZS10B

7501	3198 010 42310	BC847BW
7502	3198 010 42310	BC847BW
7515	9351 869 40118	74HC4053PW
7516	9351 869 40118	74HC4053PW

LED/Switch Panel [J] (FTL2.1E Top)

Various

0075	3104 317 06821	SW (see Prod. Survey)
0164	3122 358 76351	LED holder IR
0345	2422 025 16961	Connector 6p m SMD
0350	2422 025 16966	Connector 5p m SMD
1020	2422 543 01431	Xtal 20MHz 16pF
1M01	2422 025 17103	Connector 3p m SMD
1M20	2422 025 17441	Connector 12p m

2020	3198 034 01590	15pF 1% 50V 0402
2021	2238 586 59812	100nF 20% 50V 0603
2022	2238 780 15654	220nF 10% 16V 0805
2023	3198 034 01590	15pF 1% 50V 0402
2030	4822 124 23002	10µF 16V
2040	4822 124 12095	100µF 20% 16V
2060	5322 124 41945	22µF 20% 35V
2070	4822 126 14583	470nF 10% 16V 0805
2071	4822 124 23002	10µF 16V

3010	4822 117 13545	100Ω 1% 0402
3011	4822 117 13545	100Ω 1% 0402
3021	4822 117 13602	2.2kΩ 5% 0.01W 0402
3022	2322 702 60568	5.6Ω 5% 0603
3022	4822 051 30759	75Ω 5% 0.062W
3023	4822 117 12925	47kΩ 1% 0.063W 0603
3024	3198 031 03320	3.3kΩ 5% 0402
3025	4822 117 13606	10kΩ 5% 0.01W 0402
3026	4822 117 13606	10kΩ 5% 0.01W 0402
3027	4822 117 13596	220Ω 5% 0.01W 0402
3028	4822 117 13606	10kΩ 5% 0.01W 0402
3029	4822 117 13606	10kΩ 5% 0.01W 0402
3030	3198 031 04720	4.7kΩ 5% 0402
3031	4822 117 12889	270kΩ 1% 0.063W 0603
3031	4822 117 13632	100kΩ 1% 0603 0.62W
3032	2322 705 70184	180Ω 5% 0402
3033	4822 051 30102	1kΩ 5% 0.062W
3034	4822 117 13548	1kΩ 5% 0402
3035	3198 031 04720	4.7kΩ 5% 0402
3036	3198 031 02280	2.2Ω 5% 0.1W 0402
3037	3198 031 02280	2.2Ω 5% 0.1W 0402
3040	4822 117 13597	330Ω 5% 0402 0.01W
3041	4822 117 13606	10kΩ 5% 0.01W 0402
3042	3198 031 06820	6.8kΩ 5% 0.01W 0402
3051	4822 117 13597	330Ω 5% 0402 0.01W
3060	4822 117 13606	10kΩ 5% 0.01W 0402
3061	4822 051 30331	330Ω 5% 0.062W
3062	4822 117 11373	100Ω 1% 0805
3063	4822 117 13606	10kΩ 5% 0.01W 0402
3064	4822 117 11373	100Ω 1% 0805
3070	2322 705 70475	4.7MΩ 5% 0402
3071	2322 705 70475	4.7MΩ 5% 0402
3072	4822 117 13548	1kΩ 5% 0402
3073	3198 031 03320	3.3kΩ 5% 0402
3074	4822 117 13606	10kΩ 5% 0.01W 0402
3075	3198 031 04720	4.7kΩ 5% 0402
3078	3198 031 03320	3.3kΩ 5% 0402
3079	3198 031 03320	3.3kΩ 5% 0402
3081	4822 117 13545	100Ω 1% 0402
3088	4822 117 13545	100Ω 1% 0402
3090	4822 117 13545	100Ω 1% 0402
3999	4822 117 13606	10kΩ 5% 0.01W 0402
9013	4822 117 13605	Jumper 0402
9019	4822 117 13605	Jumper 0402
9022	4822 051 30008	Jumper 0603
9024	4822 051 30008	Jumper 0603
9026	4822 117 13605	Jumper 0402
9027	4822 117 13605	Jumper 0402
9040	4822 117 13605	Jumper 0402
9043	4822 117 13605	Jumper 0402

5020	2422 549 43062	Bead 600Ω at 100MHz

6030	4822 130 11397	BAS316
6031	4822 130 11397	BAS316
6051	4822 130 83915	TLMV3100
6060	9322 198 19685	SML512BC2T
6061	4822 130 11397	BAS316
6070	9322 140 63685	TEMD5000
6080	9322 127 27676	TSAL5300

7020	9340 218 60115	BC857CW
7021	9340 218 60115	BC857CW
7030	3198 010 42320	BC857BW
7031	5322 130 62804	BCP53
7032	3198 010 42310	BC847BW
7060	3198 010 42310	BC847BW
7061	3198 010 42310	BC847BW
7070	9322 192 63668	LM358P
7075		For SW see item 0075

Proximity Sensor Panel [PR] (FTL2.1E Top)

Various

0350	4822 267 10596	Connector 5p
1040	9322 206 81667	TSOP34836YA1

2021	4822 124 41584	100µF 20% 10V
2022	2238 780 15654	220nF 10% 16V 0805
2040	4822 124 41584	100µF 20% 10V

3010	4822 051 30101	100Ω 5% 0.062W
3021	4822 051 30222	2.2kΩ 5% 0.062W
3022	2322 702 60568	5.6Ω 5% 0603
3022	4822 051 30759	75Ω 5% 0.062W
3023	4822 117 12925	47kΩ 1% 0.063W 0603
3024	4822 051 30332	3.3Ω 5% 0.062W
3040	4822 051 30331	330Ω 5% 0.062W
3041	4822 051 30103	10kΩ 5% 0.062W
3042	4822 051 30682	6.8Ω 5% 0.062W
9040	4822 051 30008	Jumper 0603
9043	4822 051 30008	Jumper 0603

6020	9322 127 27676	TSAL5300

7020	9340 218 60115	BC857CW
7021	9340 218 60115	BC857CW

Stand-by Supply/Audio Panel [SA] (FTL2.1E Top)

Various

1303	2422 025 04475	Connector 4p m
1303	2422 025 10647	Connector 4p m
1304	2422 025 10647	Connector 4p m
1305	4822 267 10735	Connector 3p
1306	2422 025 16374	Connector 2p m
1307	2422 025 10647	Connector 4p m
1309	2422 025 04475	Connector 4p m
1309	2422 025 11143	Connector 3p m
1314	2422 025 10771	Connector 10p m
1315	2422 025 10771	Connector 10p m
1316	2422 025 10772	Connector 12p m
1317	2422 025 10772	Connector 12p m
1318	2422 025 08149	Connector 6p m
1320	2422 025 04475	Connector 4p m
1320	2422 025 11143	Connector 3p m
1735	2422 025 10768	Connector 3p m
1736	2422 025 10768	Connector 3p m
1738	2422 025 10768	Connector 3p m
1739	2422 025 10769	Connector 9p m
1M02	2422 025 11244	Connector 7p m
1M03	2422 025 10771	Connector 10p m
1M10	2422 025 09406	Connector 4p m
1M46	2422 025 10655	Connector 11p m

2101	4822 121 51598	2.2nF 5% 400V
2102	4822 124 40207	100µF 20% 25V
2103	2020 552 94427	100pF 5% 50V
2105	2020 552 94427	100pF 5% 50V
2107	2020 024 90718	10µF 20% 450V
2108	2020 024 90718	10µF 20% 450V
2109	2022 552 05679	1µF 10% 16V 0805
2110	2022 552 05679	1µF 10% 16V 0805
2111	4822 121 43526	47nF 5% 250V
2112	5322 126 11583	10nF 10% 50V 0603
2123	2238 586 59812	100nF 20% 50V 0603
2124	4822 124 40248	10µF 20% 63V
2129	5322 126 11578	1nF 10% 50V 0603
2131	2238 586 15641	22nF 10% 50V 0603
2132	4822 124 40207	100µF 20% 25V
2140	4822 124 40248	10µF 20% 63V
2141	4822 126 14583	470nF 10% 16V 0805
2144	2022 552 05679	1µF 10% 16V 0805

2145	4822 126 13881	470pF 5% 50V
2149	2022 552 05679	1µF 10% 16V 0805
2150	4822 124 12379	220µF 25V
2152	4822 121 70162	10nF 5% 400V
2153	5322 126 11582	6.8nF 10% 63V
2154	3198 017 31530	15nF 20% 50V 0603
2160	4822 124 21913	1µF 20% 63V
2163	4822 124 40207	100µF 20% 25V
2506	2252 811 95017	470pF 10% 250V
2507	4822 126 13682	100pF 5% 1kV
2508	4822 124 40764	22µF 100V
2510	2020 021 91668	2200µF 20% 10V
2511	4822 124 12379	220µF 25V
2512	4822 124 12379	220µF 25V
2513	4822 126 10206	2.2nF 10% 500V
2515	4822 126 14238	2.2nF 50V 0603
2533	4822 124 40207	100µF 20% 25V
2534	2020 552 96448	1µF 10% 16V 0805
2535	5322 126 11583	10nF 10% 50V 0603
2536	5322 126 11583	10nF 10% 50V 0603
2537	4822 126 14238	2.2nF 50V 0603
2538	5322 126 11583	10nF 10% 50V 0603
2539	2020 552 96448	1µF 10% 16V 0805
2539	4822 126 14583	470nF 10% 16V 0805
2540	5322 126 11583	10nF 10% 50V 0603
2544	5322 126 11583	10nF 10% 50V 0603
2702	5322 126 11578	1nF 10% 50V 0603
2704	5322 126 11578	1nF 10% 50V 0603
2705	2020 552 96684	470nF 10% 25V 0805
2706	2222 580 15649	100nF 10% 50V 0805
2707	4822 126 14585	100nF 10% 0805 50V
2708	2020 552 96326	220nF 10% 16V
2709	4822 126 13881	470pF 5% 50V
2710	4822 126 13881	470pF 5% 50V
2711	5322 126 11578	1nF 10% 50V 0603
2712	2020 552 96683	220nF 10% 50V
2713	2020 552 96684	470nF 10% 25V 0805
2714	4822 126 14549	33nF 16V 0603
2715	5322 126 11578	1nF 10% 50V 0603
2716	4822 126 14241	330pF 0603 50V
2717	5322 121 42498	680nF 5% 63V
2718	4822 122 33761	22pF 5% 50V
2719	5322 126 11578	1nF 10% 50V 0603
2720	2020 552 96326	220nF 10% 16V
2721	4822 126 13881	470pF 5% 50V
2722	4822 126 13881	470pF 5% 50V
2723	5322 126 11578	1nF 10% 50V 0603
2726	4822 126 14549	33nF 16V 0603
2727	5322 126 11578	1nF 10% 50V 0603
2728	4822 126 14241	330pF 0603 50V
2729	5322 121 42498	680nF 5% 63V
2741	4822 122 33761	22pF 5% 50V
2743	4822 126 12105	33nF 5% 50V 0805
2753	2020 552 96326	220nF 10% 16V
2754	4822 126 14491	2.2µF 10V 0805
2755	5322 126 11578	1nF 10% 50V 0603
2756	4822 126 13881	470pF 5% 50V
2758	5322 121 42498	680nF 5% 63V
2759	5322 126 10511	1nF 5% 50V
2762	2020 552 96326	220nF 10% 16V
2764	4822 126 14491	2.2µF 10V 0805
2766	4822 126 14491	2.2µF 10V 0805
2768	4822 124 40255	100µF 20% 63V
2769	4822 124 40255	100µF 20% 63V
2777	2020 552 96683	220nF 10% 50V
2778	4822 124 40769	4.7µF 20% 100V
2779	2020 552 96683	220nF 10% 50V
2780	2020 552 96683	220nF 10% 50V
2781	2020 552 96683	220nF 10% 50V
2782	2020 552 96683	220nF 10% 50V
2783	4822 124 41751	47µF 20% 50V
2784	2020 552 96683	220nF 10% 50V
2786	2238 586 15641	22nF 10% 50V 0603
2788	4822 124 40255	100µF 20% 63V
2789	2020 552 96683	220nF 10% 50V
2790	4822 124 40255	100µF 20% 63V
2791	2022 552 05679	1µF 10% 16V 0805
2792	2022 552 05679	1µF 10% 16V 0805
2793	4822 124 40255	100µF 20% 63V
2794	2022 552 05679	1µF 10% 16V 0805
2795	2020 552 96683	220nF 10% 50V
2796	2022 552 05679	1µF 10% 16V 0805
2797	4822 126 14076	220nF +80/-20% 25V
2798	4822 126 14076	220nF +80/-20% 25V
2799	4822 124 40255	100µF 20% 63V

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3100	4822 051 30101	100Ω 5% 0.062W
3101	4822 053 20475	4.7MΩ 5% 0.25W
3102	2312 915 11002	1kΩ 1% 0.5W
3103	2312 915 11002	1kΩ 1% 0.5W
3104	4822 051 30479	47Ω 5% 0.062W
3105	4822 051 30221	220Ω 5% 0.062W
3106	4822 051 30391	390Ω 5% 0.062W
3107	4822 051 30391	390Ω 5% 0.062W
3108	4822 053 10478	4.7Ω 5% 1W
3109	4822 051 30391	390Ω 5% 0.062W
3110	4822 051 30391	390Ω 5% 0.062W
3111	4822 053 10152	1.5kΩ 5% 1W
3112	4822 051 30391	390Ω 5% 0.062W
3113	9965 000 23109	22Ω 5% 0603
3114	4822 051 30221	220Ω 5% 0.062W
3117	4822 051 30479	47Ω 5% 0.062W
3121	4822 051 30109	10Ω 5% 0.062W
3122	4822 051 30471	47Ω 5% 0.062W
3123	4822 051 30109	10Ω 5% 0.062W
3124	4822 051 30339	33Ω 5% 0.062W
3125	4822 117 12971	15Ω 5% 0603 0.62W
3126	4822 051 30103	10kΩ 5% 0.062W
3127	4822 051 30562	5.6kΩ 5% 0.063W 0603
3128	4822 117 13608	4.7Ω 5% 0603 0.62W
3132	4822 051 30333	33kΩ 5% 0.062W
3134	4822 051 30102	1kΩ 5% 0.062W
3135	4822 051 30331	330Ω 5% 0.062W
3138	4822 051 30105	1MΩ 5% 0.062W
3140	4822 051 30223	22kΩ 5% 0.062W
3141	4822 051 30471	47Ω 5% 0.062W
3142	4822 051 30123	12kΩ 5% 0.1W
3145	4822 051 30472	4.7Ω 5% 0.062W
3146	4822 051 30479	47Ω 5% 0.062W
3147	4822 051 30223	22kΩ 5% 0.062W
3148	4822 051 30479	47Ω 5% 0.062W
3149	4822 051 30103	10kΩ 5% 0.062W
3150	4822 051 30101	100Ω 5% 0.062W
3152	4822 051 30102	1kΩ 5% 0.062W
3153	4822 051 30223	22kΩ 5% 0.062W
3155	4822 050 21003	10kΩ 1% 0.6W
3156	4822 051 30102	1kΩ 5% 0.062W
3157	4822 051 30223	22kΩ 5% 0.062W
3158	4822 051 30479	47Ω 5% 0.062W
3159	4822 051 30479	47Ω 5% 0.062W
3160	4822 051 30102	1kΩ 5% 0.062W
3161	4822 051 30123	12kΩ 5% 0.1W
3171	4822 051 30101	100Ω 5% 0.062W
3172	4822 051 30333	33kΩ 5% 0.062W
3175	4822 051 30103	10kΩ 5% 0.062W
3176	4822 051 30103	10kΩ 5% 0.062W
3190	4822 050 22702	2.7kΩ 1% 0.6W
3190	4822 053 10122	1.2kΩ 5% 1W
3191	4822 050 22702	2.7kΩ 1% 0.6W
3191	4822 053 10122	1.2kΩ 5% 1W
3192	4822 050 22702	2.7kΩ 1% 0.6W
3192	4822 053 10122	1.2kΩ 5% 1W
3509	4822 053 10222	2.2kΩ 5% 1W
3511	4822 051 30683	68kΩ 5% 0.062W
3512	4822 051 30471	47Ω 5% 0.062W
3513	4822 051 30333	33kΩ 5% 0.062W
3515	4822 117 13632	100kΩ 1% 0603 0.62W
3516	4822 051 30472	4.7Ω 5% 0.062W
3517	4822 051 30223	22kΩ 5% 0.062W
3528	4822 051 30472	4.7Ω 5% 0.062W
3529	4822 051 30101	100Ω 5% 0.062W
3530	4822 051 30223	22kΩ 5% 0.062W
3531	4822 051 30153	15kΩ 5% 0.062W
3532	4822 051 30472	4.7Ω 5% 0.062W
3533	4822 051 30152	1.5Ω 5% 0.062W
3534	4822 051 30103	10kΩ 5% 0.062W
3538	4822 051 30101	100Ω 5% 0.062W
3539	4822 051 30471	47Ω 5% 0.062W
3540	4822 051 30222	2.2kΩ 5% 0.062W
3541	4822 051 30222	2.2kΩ 5% 0.062W
3542	4822 051 30103	10kΩ 5% 0.062W
3544	4822 051 30221	220Ω 5% 0.062W
3560	4822 051 30682	6.8Ω 5% 0.062W
3561	4822 051 30392	3.9Ω 5% 0.063W 0603
3562	4822 117 13608	4.7Ω 5% 0603 0.62W
3701	4822 051 30103	10kΩ 5% 0.062W
3702	4822 051 30103	10kΩ 5% 0.062W
3702	4822 051 30682	6.8Ω 5% 0.062W
3703	4822 051 30333	33kΩ 5% 0.062W
3704	4822 117 10833	10kΩ 1% 0.1W
3705	4822 051 20828	8.2Ω 5% 0.1W
3706	4822 051 30472	4.7Ω 5% 0.062W
3707	4822 051 30683	68kΩ 5% 0.062W
3708	4822 051 30563	56kΩ 5% 0.062W
3709	4822 117 11503	220Ω 1% 0.1W
3710	4822 051 30223	22kΩ 5% 0.062W
3711	4822 050 21204	120kΩ 1% 0.6W
3712	4822 051 30103	10kΩ 5% 0.062W
3713	2312 915 11202	1.2kΩ 1% 0.5W
3714	4822 117 12925	47kΩ 1% 0.063W 0603
3715	4822 117 12925	47kΩ 1% 0.063W 0603
3716	4822 117 12925	47kΩ 1% 0.063W 0603
3717	4822 117 13632	100kΩ 1% 0603 0.62W
3718	4822 117 13632	100kΩ 1% 0603 0.62W
3720	4822 117 11503	220Ω 1% 0.1W
3721	4822 051 30472	4.7Ω 5% 0.062W
3722	4822 051 30683	68kΩ 5% 0.062W
3723	4822 051 30563	56kΩ 5% 0.062W
3724	4822 117 11503	220Ω 1% 0.1W
3725	4822 051 30223	22kΩ 5% 0.062W
3726	4822 117 11503	220Ω 1% 0.1W
3727	4822 117 11503	220Ω 1% 0.1W
3729	4822 117 10837	100kΩ 1% 0.1W
3730	4822 117 11503	220Ω 1% 0.1W
3741	4822 051 30103	10kΩ 5% 0.062W
3743	4822 117 11449	2.2kΩ 5% 0.1W 0805
3744	4822 117 13632	100kΩ 1% 0603 0.62W
3746	4822 051 30223	22kΩ 5% 0.062W
3747	4822 117 12925	47kΩ 1% 0.063W 0603
3748	4822 051 30471	47Ω 5% 0.062W
3749	4822 051 30471	47Ω 5% 0.062W
3750	4822 117 11449	2.2kΩ 5% 0.1W 0805
3751	4822 117 11449	2.2kΩ 5% 0.1W 0805
3752	4822 051 30331	330Ω 5% 0.062W
3753	4822 117 11449	2.2kΩ 5% 0.1W 0805
3754	4822 051 30223	22kΩ 5% 0.062W
3755	4822 051 30471	47Ω 5% 0.062W
3756	4822 117 11449	2.2kΩ 5% 0.1W 0805
3757	4822 117 11449	2.2kΩ 5% 0.1W 0805
3758	5322 117 13056	8.2kΩ 1% 0.063W 0603
3759	4822 051 30332	3.3Ω 5% 0.062W
3760	4822 051 30332	3.3Ω 5% 0.062W
3761	4822 051 20109	10Ω 5% 0.1W
3762	4822 051 30222	2.2kΩ 5% 0.062W
3763	4822 051 30222	2.2kΩ 5% 0.062W
3764	4822 051 20109	10Ω 5% 0.1W
3765	4822 117 13632	100kΩ 1% 0603 0.62W
3766	4822 117 13632	100kΩ 1% 0603 0.62W
3767	4822 117 13632	100kΩ 1% 0603 0.62W
3768	4822 117 13632	100kΩ 1% 0603 0.62W
3790	4822 051 30272	2.7kΩ 5% 0.062W
3791	4822 051 30272	2.7kΩ 5% 0.062W
3792	4822 051 30103	10kΩ 5% 0.062W
3793	4822 051 30103	10kΩ 5% 0.062W
3794	4822 051 30103	10kΩ 5% 0.062W
3796	4822 051 30272	2.7kΩ 5% 0.062W
3798	4822 051 30153	15kΩ 5% 0.062W
3999	4822 051 30102	1kΩ 5% 0.062W
3999	4822 051 30682	6.8Ω 5% 0.062W
9020	4822 051 30008	Jumper 0603
9110	4822 051 30008	Jumper 0603
9717	4822 051 30008	Jumper 0603
9737	4822 051 30008	Jumper 0603

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5102	4822 526 10704	Bead 50 Ω at 100MHz
5103	4822 526 10704	Bead 50 Ω at 100MHz
5104	4822 157 11411	Bead 80Ω at 100MHz
5105	4822 157 11716	Bead 30Ω at 100MHz
5106	3198 018 31090	10µH 10% 0805
5108	4822 526 10704	Bead 50 Ω at 100MHz
5110	4822 157 71736	10µH 5%
5500▲	3104 308 21181	Transf. BS25320-00
5504	2422 536 00776	33µH 10%
5505	4822 157 11411	Bead 80Ω at 100MHz
5506	4822 157 11411	Bead 80Ω at 100MHz
5507	2422 536 00433	15µH 10%
5508	2422 536 00433	15µH 10%
5701	2422 536 00385	68µH 10%
5701	2422 536 00685	68µF 10%
5702	2422 536 00385	68µH 10%
5702	2422 536 00685	68µF 10%
5703	4822 157 11716	Bead 30Ω at 100MHz
5704	4822 157 11411	Bead 80Ω at 100MHz
5707	4822 157 11411	Bead 80Ω at 100MHz
5708	4822 157 11411	Bead 80Ω at 100MHz
5711	4822 157 11411	Bead 80Ω at 100MHz
5712	4822 157 11411	Bead 80Ω at 100MHz
5720	2422 536 00385	68µH 10%
5720	2422 536 00685	68µF 10%
5722	4822 157 11411	Bead 80Ω at 100MHz
5723	4822 157 11411	Bead 80Ω at 100MHz

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6103	4822 130 10871	SBYV27-200
6104	9340 548 69115	PDZ27B
6105	4822 130 11522	UDZ15B
6106	9340 548 66115	PDZ20B
6108	4822 130 80622	BAT54
6114	4822 130 10871	SBYV27-200
6115	4822 130 80622	BAT54
6116	3198 020 55680	BZX384-C5V6
6120	4822 130 11397	BAS316
6121	4822 130 11397	BAS316
6122	9322 129 34685	BZM55-C3V9

6130	9322 129 41685	BZM55-C12
6132	4822 130 11416	PDZ6.8B
6133	4822 130 11397	BAS316
6134	4822 130 11397	BAS316
6140	4822 130 41487	BYV95C
6142	4822 130 80622	BAT54
6144	4822 130 11397	BAS316
6147	9322 200 23685	SML4736
6148	4822 130 11397	BAS316
6149	3198 020 55680	BZX384-C5V6
6150	9340 292 50135	BZG03-C200
6151	9340 548 71115	PDZ33B
6153	9340 292 50135	BZG03-C200
6156	4822 130 11397	BAS316
6504	9340 418 70133	BYV27-600
6505	9322 161 78682	SB360L-7024
6511	9322 129 41685	BZM55-C12
6531	4822 130 11522	UDZ15B
6532	4822 130 11397	BAS316
6540	4822 130 80622	BAT54
6562	9340 548 67115	PDZ22B
6701	4822 130 11397	BAS316
6702	4822 130 11551	UDZS10B
6703	4822 130 11551	UDZS10B
6710	4822 130 11551	UDZS10B
6711	4822 130 11551	UDZS10B

7100	3198 010 42320	BC857BW
7101	9340 219 30115	BC817-25W
7102	9322 160 34687	FQPF3N60
7102	9322 194 27687	STP3NK60ZFP
7105	3198 010 42320	BC857BW
7131	9340 557 69127	PHX9NQ20T
7140	3198 010 42310	BC847BW
7150⚠	9322 149 04682	TCET1102
7501⚠	9322 149 04682	TCET1102
7505	3198 010 42320	BC857BW
7506	3198 010 42310	BC847BW
7507	3198 010 42310	BC847BW
7509	3198 010 42310	BC847BW
7511	9337 331 10215	BST82
7512	9340 422 80115	PMSTA42
7531	9340 436 50115	BSP030
7532	3198 010 42310	BC847BW
7560	9340 219 30115	BC817-25W
7700	9322 163 86682	TDA7490L
7701	3198 010 42310	BC847BW
7701	5322 130 60159	BC846B
7702	9322 147 23682	TDA7481
7703	3198 010 42310	BC847BW
7703	5322 130 60159	BC846B
7704	3198 010 42310	BC847BW
7704	5322 130 60159	BC846B
7705	3198 010 42310	BC847BW
7705	5322 130 60159	BC846B
7706	3198 010 42320	BC857BW
7706	4822 130 60373	BC856B
7707	3198 010 42310	BC847BW
7707	5322 130 60159	BC846B
7708	3198 010 42310	BC847BW
7708	5322 130 60159	BC846B
7709	3198 010 42310	BC847BW
7709	5322 130 60159	BC846B
7710	3198 010 42310	BC847BW
7710	5322 130 60159	BC846B
7711	3198 010 42310	BC847BW
7711	5322 130 60159	BC846B
7712	5322 130 60159	BC846B
7713	4822 130 60373	BC856B
7715	4822 209 30095	LM833D

Set Level (FTL2.2E Wrap)

Various

1004▲	9322 209 35682	LQ315T3LZ13 (Sharp)
1004	9322 217 44682	LC320W01-A6K1 (LPL)
8206	3104 311 08361	Cable 2P3/400/2P3
8302	3104 311 04721	Cable 7P/680/7P
8304	3104 311 08281	Cable 4P/480/4P
8305	3104 311 08431	Cable 3P/480/3P
8307	3104 311 08381	Cable 4P/400/4P
8309	3104 311 08311	Cable 3P/480/4P
8314	3104 311 08531	Cable 10P/820/10P
8315	3104 311 08531	Cable 10P/820/10P
8318	3104 311 06841	Cable 6P/820/6P
8350	3104 311 08901	Cable 31P/230/30P
8735	3104 311 08601	Cable 2P3/820/2xPOSI
8736	3104 311 07551	Cable 2p3/1600/2p

MF Supply Panel [A] (FTL2.2E Wrap)

Various

1007▲	4822 071 55002	Fuse T5A 250V
1304	2422 025 10647	Connector 4p m
1305	4822 267 10735	Connector 3p
1306	2422 025 16374	Connector 2p m
1307	2422 025 10647	Connector 4p m
1308	4822 265 20723	Connector 2p
1309	2422 025 11143	Connector 3p m
1400▲	4822 253 50145	Fuse 3.15A T
1402	4822 252 60151	Surge protect
1410	4822 265 11253	Fuse holder
1411	4822 265 11253	Fuse holder
1450▲	2422 132 07411	Relay 1p 5V 5A
1M02	2422 025 11244	Connector 7p m

⊣⊢

2000▲	2252 811 95022	1.5nF 20% 250V
2002▲	4822 124 11767	470µF 20% 25V
2003▲	4822 124 80061	1000µF 20% 25V
2007▲	4822 126 14583	470nF 10% 16V 0805
2008▲	4822 126 14583	470nF 10% 16V 0805
2009▲	2238 867 18101	100pF 1% 50V 0603
2010▲	4822 124 40207	100µF 20% 25V
2011	2222 375 90161	18nF 1.6kV 5%
2012▲	4822 126 13862	1.5nF 10% 2kV
2013▲	4822 126 13862	1.5nF 10% 2kV
2014▲	4822 126 13451	2.2nF 10% 2kV
2015▲	5322 126 11583	10nF 10% 50V 0603
2016▲	2238 586 59812	100nF 20% 50V 0603
2017	2222 375 90161	18nF 1.6kV 5%
2019	5322 126 11583	10nF 10% 50V 0603
2020	2020 021 00012	2200µF 20% 16V
2021	2020 021 00012	2200µF 20% 16V
2022	4822 124 81168	2200 µF 20% 35V
2023	4822 126 14583	470nF 10% 16V 0805
2024	2020 552 96326	220nF 10% 16V
2025	2020 552 96683	220nF 10% 50V
2026	4822 126 14238	2.2nF 50V 0603
2028	5322 126 11578	1nF 10% 50V 0603
2029	5322 126 11578	1nF 10% 50V 0603
2033	2020 552 96683	220nF 10% 50V
2034	2238 867 18101	100pF 1% 50V 0603
2035	2238 867 18101	100pF 1% 50V 0603
2036	4822 126 14583	470nF 10% 16V 0805
2037	4822 126 14583	470nF 10% 16V 0805
2038	4822 124 81168	2200 µF 20% 35V
2039	4822 126 14583	470nF 10% 16V 0805
2040	4822 126 14249	560pF 10% 50V 0603
2041	2020 552 96683	220nF 10% 50V
2042	2020 552 96683	220nF 10% 50V
2043	2020 552 96683	220nF 10% 50V
2044	5322 126 11578	1nF 10% 50V 0603
2045	5322 126 11578	1nF 10% 50V 0603
2046	3198 017 34730	47nF 16V 0603
2047	5322 126 11583	10nF 10% 50V 0603
2048	5322 126 11578	1nF 10% 50V 0603
2050	5322 126 11578	1nF 10% 50V 0603
2051	2020 552 96683	220nF 10% 50V
2052	2020 552 96683	220nF 10% 50V
2053	2020 552 96683	220nF 10% 50V
2060	4822 126 14238	2.2nF 50V 0603
2061	4822 126 14238	2.2nF 50V 0603
2062	4822 126 14238	2.2nF 50V 0603
2063	4822 126 13881	470pF 5% 50V
2064	4822 126 13881	470pF 5% 50V
2065	4822 126 14238	2.2nF 50V 0603
2071	5322 126 11578	1nF 10% 50V 0603
2072	5322 126 11578	1nF 10% 50V 0603
2077	4822 126 14238	2.2nF 50V 0603
2290	5322 126 11583	10nF 10% 50V 0603
2291	4822 126 13881	470pF 5% 50V
2292	4822 124 12417	2200µF 20% 25V
2293	4822 126 13881	470pF 5% 50V
2294	4822 124 12417	2200µF 20% 25V
2400	2222 338 22474	470nF 20% 275V
2407	2252 811 95017	470pF 10% 250V
2503	2020 024 90718	10µF 20% 450V
2816	2020 024 00001	330µF 20% 400V

⊣WW⊢

3000	4822 052 10478	4.7Ω 5% 0.33W
3001	4822 051 30101	100Ω 5% 0.062W
3002	4822 117 12925	47kΩ 1% 0.063W 0603
3003	4822 117 13632	100kΩ 1% 0603 0.62W
3004	4822 051 30273	27kΩ 5% 0.062W
3005	4822 051 30333	33kΩ 5% 0.062W
3006	4822 051 30103	10kΩ 5% 0.062W
3007	4822 051 30103	10kΩ 5% 0.062W
3008	4822 051 30331	330Ω 5% 0.062W
3009	4822 051 30332	3.3Ω 5% 0.062W
3010	4822 051 30471	47Ω 5% 0.062W
3011	4822 051 30471	47Ω 5% 0.062W
3012	4822 051 30153	15kΩ 5% 0.062W
3013	4822 051 30103	10kΩ 5% 0.062W
3014	4822 052 10101	100Ω 5% 0.33W
3015	4822 052 10479	47Ω 5% 0.33W
3016	4822 051 30332	3.3Ω 5% 0.062W
3017	4822 052 10101	100Ω 5% 0.33W
3018	4822 052 10479	47Ω 5% 0.33W
3019	4822 051 30332	3.3Ω 5% 0.062W
3020	4822 051 30332	3.3Ω 5% 0.062W
3021	4822 117 12971	15Ω 5% 0603 0.62W
3022	4822 051 30681	680Ω 5% 0.062W
3023	4822 051 30153	15kΩ 5% 0.062W
3025	3198 021 31820	1.8kΩ 5% 0.062W 0603
3026	2120 368 90118	Potm. lin. 470Ω hor.
3027	4822 117 13632	100kΩ 1% 0603 0.62W
3028	4822 051 30332	3.3Ω 5% 0.062W
3029	4822 051 30332	3.3Ω 5% 0.062W
3030	4822 051 30183	18kΩ 5% 0.062W
3031	4822 051 30103	10kΩ 5% 0.062W
3032	4822 051 30103	10kΩ 5% 0.062W
3033	4822 052 11108	1Ω 5% 0.5W
3034	4822 051 30102	1kΩ 5% 0.062W
3035	4822 051 30332	3.3Ω 5% 0.062W
3036	4822 117 13632	100kΩ 1% 0603 0.62W
3039	4822 051 30102	1kΩ 5% 0.062W
3040	5322 117 13056	8.2kΩ 1% 0.063W 0603
3041	4822 051 30333	33kΩ 5% 0.062W
3042	4822 051 30123	12kΩ 5% 0.1W
3043	4822 051 30109	10Ω 5% 0.062W
3044	4822 051 30471	47Ω 5% 0.062W
3045	4822 117 12971	15Ω 5% 0603 0.62W
3046	4822 117 12971	15Ω 5% 0603 0.62W
3047	4822 051 30479	47Ω 5% 0.062W
3048	4822 051 30272	2.7kΩ 5% 0.062W
3049	4822 051 30333	33kΩ 5% 0.062W
3050	4822 050 28204	820kΩ 1% 0.6W
3051	4822 051 30472	4.7Ω 5% 0.062W
3052	2322 704 67502	7.5kΩ 1% 0.5W
3053	4822 050 26804	680kΩ 1% 0.6W
3054	4822 051 30472	4.7Ω 5% 0.062W
3055	4822 051 30221	220Ω 5% 0.062W
3056	4822 051 30221	220Ω 5% 0.062W
3057	4822 051 30221	220Ω 5% 0.062W
3058	4822 053 20565	5.6MΩ 5% 0.25W
3059	4822 051 30222	2.2kΩ 5% 0.062W
3061	4822 051 30683	68kΩ 5% 0.062W
3064	4822 051 30103	10kΩ 5% 0.062W
3065	4822 117 13632	100kΩ 1% 0603 0.62W
3066	4822 051 30103	10kΩ 5% 0.062W
3067	4822 051 30101	100Ω 5% 0.062W
3068	4822 051 30222	2.2kΩ 5% 0.062W
3070	4822 051 30102	1kΩ 5% 0.062W
3071	4822 051 30103	10kΩ 5% 0.062W
3075	4822 051 30102	1kΩ 5% 0.062W
3089	4822 051 30103	10kΩ 5% 0.062W
3100	4822 051 30109	10Ω 5% 0.062W
3292	4822 051 30561	560Ω 5% 0.062W
3400	2122 550 00158	VDR 1mA 612V
3401	4822 053 21475	4.7MΩ 5% 0.5W
3402	4822 053 21475	4.7MΩ 5% 0.5W
3403	4822 053 21475	4.7MΩ 5% 0.5W
3404	4822 116 83872	220Ω 5% 0.5W
3810	2322 257 41123	12kΩ 5% 5W
3999	4822 051 30102	1kΩ 5% 0.062W

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5001	2422 531 02444	Transf. S13932-04Y
5002▲	3104 308 21241	Transf. 2652.0002
5005	4822 526 10704	Bead 50 Ω at 100MHz
5007	4822 526 10704	Bead 50 Ω at 100MHz
5008	4822 526 10704	Bead 50 Ω at 100MHz
5009	4822 157 11411	Bead 80Ω at 100MHz
5010	4822 157 11411	Bead 80Ω at 100MHz
5013	4822 526 10704	Bead 50 Ω at 100MHz
5015	4822 157 11411	Bead 80Ω at 100MHz
5016	4822 157 11411	Bead 80Ω at 100MHz
5017	4822 526 10704	Bead 50 Ω at 100MHz
5025	4822 526 10704	Bead 50 Ω at 100MHz
5026	4822 526 10704	Bead 50 Ω at 100MHz
5027	4822 526 10704	Bead 50 Ω at 100MHz
5028	4822 526 10704	Bead 50 Ω at 100MHz
5040	4822 157 11411	Bead 80Ω at 100MHz
5291	2422 536 00776	33µH 10%
5292	2422 536 00776	33µH 10%
5293	2422 536 00776	33µH 10%
5401	2422 549 43291	Filter 47mH 2A
5403	3104 308 21201	Line filter DTH40383H65

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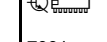
6002	4822 130 11397	BAS316
6003	4822 130 11397	BAS316
6004	4822 130 80622	BAT54
6005	4822 130 80622	BAT54
6006	4822 130 11397	BAS316
6007	4822 130 11397	BAS316
6008	4822 130 11397	BAS316
6009	4822 130 11152	UDZ18B
6010	4822 130 11397	BAS316
6011	4822 130 11397	BAS316
6012	9322 208 80685	BZG05C15
6013	9322 208 80685	BZG05C15
6014	9340 548 67115	PDZ22B
6015	4822 130 11397	BAS316
6017	4822 130 11397	BAS316
6020	4822 130 11397	BAS316
6021	9322 207 11687	STPS20L45CT
6022	4822 130 11148	UDZ4.7B
6023	4822 130 11397	BAS316
6025	9322 207 11687	STPS20L45CT
6027	4822 130 11397	BAS316
6028	4822 130 11397	BAS316
6030	4822 130 11397	BAS316
6044	9322 207 11687	STPS20L45CT
6045	9322 207 11687	STPS20L45CT
6051	4822 130 11397	BAS316
6054	4822 130 11551	UDZS10B
6077	9322 202 55685	BYG22D
6078	9322 202 55685	BYG22D
6079	9322 202 55685	BYG22D
6080	9322 202 55685	BYG22D
6081	9340 548 67115	PDZ22B
6291	4822 130 11572	STPS8H100F
6293	4822 130 11572	STPS8H100F
6460	4822 130 11397	BAS316
6461	4822 130 11397	BAS316
6506	4822 130 83147	DF06M
6807	9322 199 74682	GBJ6J-B15



7001	9322 108 21682	MC34067P
7002	9322 149 04682	TCET1102
7004	3198 010 42310	BC847BW
7005	9322 192 18687	STP15NK50ZFP
7006	9322 205 26687	FQPF18N50V2
7007	3198 010 42320	BC857BW
7008	3198 010 42320	BC857BW
7009	3198 010 42320	BC857BW
7010	9322 125 09668	TL431AID
7017	3198 010 42320	BC857BW
7018	3198 010 42310	BC847BW
7030	3198 010 42310	BC847BW
7031	3198 010 42310	BC847BW

Small Signal Board [B] (FTL2.2E Wrap)

Various

0601	3104 317 08781	SW (see Prod. Survey)
0602	3104 317 07861	SW (see Prod. Survey)
0603	3104 317 06591	SW (see Prod. Survey)

0605	3104 317 47621	SW (see Prod. Survey)
1000▲	2422 086 11092	Fuse 500mA 50V F SMD
1001	2422 543 89022	Xtal 6MHz 20p
1026	3104 328 29591	SCART 3 assy
1305	2422 543 01184	Xtal 4.433619MHz 20p
1308	2422 543 01183	Xtal 3.579545MHz 16p
1404	2422 127 00543	Switch 1p 2pos
1407	2422 549 44324	Filt. 5.5/5.74MHz
1408	2422 549 44372	SAW 38.9MHz K3953L
1409	2422 549 44369	SAW 38.9MHz K9656L
1702	2422 540 98456	Resonator 12MHz
1A00	2422 543 89019	Xtal 18.432MHz 12p
1D01	2422 033 00515	Socket DVI-I 29p f
1E02	2422 025 17274	Connector 10p m
1E04	2422 025 18738	Connector 3P m
1G50	2422 025 18427	Connector 31p f
1I01	2422 025 18133	Socket SCART
1I04	2422 025 18133	Socket SCART
1I05	2422 026 05539	Socket Cinch 2p f WhRd
1I06	2422 026 05527	Socket Cinch 2p f
1I07	2422 026 05054	Socket Cinch 2p f WhRd
1I53	2422 549 45325	Bead 67Ω at 100MHz
1I56	2422 549 45325	Bead 67Ω at 100MHz
1I57	2422 549 45325	Bead 67Ω at 100MHz
1I59	2422 549 45325	Bead 67Ω at 100MHz
1I79▲	2422 086 00623	Fuse 3A T 125V
1M01	2422 025 10768	Connector 3p m
1M03	2422 025 10771	Connector 10p m
1M07	4822 267 10637	Connector 5p
1M15	4822 267 10748	Connector 3p
1M17	2422 025 17765	Connector 7p m
1M20	2422 025 10772	Connector 12p m
1M36	2422 025 10655	Connector 11p m
1M46	2422 025 10655	Connector 11p m
1M49	2422 025 10768	Connector 3p m
1M52	2422 025 10769	Connector 9p m
1T01	3139 147 19801	Tuner UV1318S/A IH -3
1U01▲	2422 086 11112	Fuse 1A T 125V
8220	3104 311 08631	Cable12P/480/12P
8303	3104 311 06511	Cable 10p/280/10p
8307	3104 311 05691	Cable 5p/100/5p
8308	3104 311 06951	Cable 2P3/180/2P
8317	3104 311 07871	Cable 7P/180/7P
8336	3104 311 07451	Cable 11P/220/11P
8337	3104 311 07451	Cable 11P/220/11P
8346	3104 311 06991	Cable 11P/280/11P
8352	3104 311 07381	Cable 9P/220/9P

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2002	3198 034 02790	47pF 1% 50V 0402
2003	2238 780 15654	220nF 10% 16V 0805
2004	2238 780 15654	220nF 10% 16V 0805
2005	2238 586 59812	100nF 20% 50V 0603
2006	2238 586 59812	100nF 20% 50V 0603
2007	2238 586 59812	100nF 20% 50V 0603
2008	2238 586 59812	100nF 20% 50V 0603
2013	2020 021 91557	100µF 20% 16V
2016	4822 124 12095	100µF 20% 16V
2017	2238 586 59812	100nF 20% 50V 0603
2018	4822 126 14324	33pF 5% 50V 0402
2019	2238 586 59812	100nF 20% 50V 0603
2020	2238 869 15221	220pF 1% 50V 0402
2022	2238 586 59812	100nF 20% 50V 0603
2023	2238 586 59812	100nF 20% 50V 0603
2024	2238 586 59812	100nF 20% 50V 0603
2025	2238 586 59812	100nF 20% 50V 0603
2026	2238 586 59812	100nF 20% 50V 0603
2027	2238 586 59812	100nF 20% 50V 0603
2028	2238 586 59812	100nF 20% 50V 0603
2029	2238 586 59812	100nF 20% 50V 0603
2031	2238 586 59812	100nF 20% 50V 0603
2033	2238 869 75829	82pF 5% 50V 0402
2034	2238 869 75829	82pF 5% 50V 0402
2035	2238 869 75829	82pF 5% 50V 0402
2036	2238 869 75829	82pF 5% 50V 0402
2037	2238 869 75829	82pF 5% 50V 0402
2038	2238 586 59812	100nF 20% 50V 0603
2039	2238 586 59812	100nF 20% 50V 0603
2040	2238 586 59812	100nF 20% 50V 0603
2063	2238 586 59812	100nF 20% 50V 0603
2067	2238 586 59812	100nF 20% 50V 0603
2072	2238 586 59812	100nF 20% 50V 0603
2073	3198 017 44740	470nF 10V 0603
2074	2238 586 59812	100nF 20% 50V 0603
2075	2238 586 59812	100nF 20% 50V 0603
2305	2238 586 59812	100nF 20% 50V 0603
2316	2238 586 59812	100nF 20% 50V 0603
2322	2238 586 59812	100nF 20% 50V 0603
2324	5322 126 11583	10nF 10% 50V 0603
2350	2238 586 59812	100nF 20% 50V 0603
2351	2238 586 59812	100nF 20% 50V 0603
2352	2238 586 59812	100nF 20% 50V 0603
2356	2238 586 59812	100nF 20% 50V 0603
2357	2238 586 59812	100nF 20% 50V 0603
2358	3198 035 03320	3.3nF 5% 50V 0402
2359	3198 034 01590	15pF 1% 50V 0402
2360	3198 034 01280	1.2pF 1% 50V 0402
2361	3198 034 01280	1.2pF 1% 50V 0402
2362	3198 034 01290	12pF 1% 50V 0402
2365	2238 586 59812	100nF 20% 50V 0603
2366	2238 586 59812	100nF 20% 50V 0603
2367	2238 586 59812	100nF 20% 50V 0603
2368	2238 586 59812	100nF 20% 50V 0603
2369	2238 586 59812	100nF 20% 50V 0603
2370	2238 586 59812	100nF 20% 50V 0603
2371	3198 035 14720	4.7nF 5% 25V 0402
2372	2022 552 05679	1µF 10% 16V 0805
2373	2238 586 59812	100nF 20% 50V 0603
2374	2022 552 05679	1µF 10% 16V 0805
2375	2238 787 15641	22nF 5% 16V 0402
2376	2238 586 59812	100nF 20% 50V 0603
2377	2020 021 91557	100µF 20% 16V
2378	2238 586 59812	100nF 20% 50V 0603
2384	2238 586 59812	100nF 20% 50V 0603
2387	2022 552 05679	1µF 10% 16V 0805
2391	2238 586 59812	100nF 20% 50V 0603
2392	2022 552 05679	1µF 10% 16V 0805
2394	2022 552 05679	1µF 10% 16V 0805
2403	2238 586 59812	100nF 20% 50V 0603
2404	2022 552 05679	1µF 10% 16V 0805
2405	3198 035 14720	4.7nF 5% 25V 0402
2406	2238 869 15221	220pF 1% 50V 0402
2407	4822 126 14524	68pF 5% 50V 0402
2408	3198 034 03380	3.3pF 1% 50V 0402
2409	2022 552 05679	1µF 10% 16V 0805
2410	2020 021 91557	100µF 20% 16V
2411	2238 586 59812	100nF 20% 50V 0603
2412	3198 035 14720	4.7nF 5% 25V 0402
2414	2020 021 91557	100µF 20% 16V
2415	2238 586 59812	100nF 20% 50V 0603
2416	2022 552 05679	1µF 10% 16V 0805
2417	4822 126 14583	470nF 10% 16V 0805
2418	3198 034 05680	5.6pF 1% 50V 0402
2425	2020 021 91557	100µF 20% 16V
2432	2238 586 59812	100nF 20% 50V 0603
2433	2238 586 59812	100nF 20% 50V 0603
2434	2238 586 59812	100nF 20% 50V 0603
2435	2020 552 96618	1nF 10% 50V 0402
2436	2022 552 05679	1µF 10% 16V 0805
2707	3198 034 02790	47pF 1% 50V 0402
2709	2238 586 59812	100nF 20% 50V 0603
2710	2238 586 59812	100nF 20% 50V 0603
2711	2238 586 59812	100nF 20% 50V 0603
2712	2238 586 59812	100nF 20% 50V 0603
2716	2238 586 59812	100nF 20% 50V 0603
2717	2238 586 59812	100nF 20% 50V 0603
2718	3198 034 01590	15pF 1% 50V 0402
2719	3198 034 01590	15pF 1% 50V 0402
2720	3198 034 01590	15pF 1% 50V 0402
2721	2238 869 15101	100pF 5% 50V 0402
2722	2238 869 15101	100pF 5% 50V 0402
2723	2238 586 59812	100nF 20% 50V 0603
2725	2238 586 59812	100nF 20% 50V 0603
2726	2238 586 59812	100nF 20% 50V 0603
2727	2238 586 59812	100nF 20% 50V 0603
2728	2020 021 91854	10µF 20% 16V
2729	2238 586 59812	100nF 20% 50V 0603
2730	2020 021 91557	100µF 20% 16V
2731	2238 586 59812	100nF 20% 50V 0603
2732	2020 552 96618	1nF 10% 50V 0402
2733	2238 586 59812	100nF 20% 50V 0603
2734	2238 586 59812	100nF 20% 50V 0603
2735	2238 586 59812	100nF 20% 50V 0603
2736	2238 586 59812	100nF 20% 50V 0603
2738	2238 586 59812	100nF 20% 50V 0603
2739	2020 021 91557	100µF 20% 16V
2740	2238 787 15641	22nF 5% 16V 0402
2741	2238 787 15641	22nF 5% 16V 0402
2742	2238 787 15641	22nF 5% 16V 0402
2743	2238 586 59812	100nF 20% 50V 0603
2744	2238 586 59812	100nF 20% 50V 0603
2745	2238 586 59812	100nF 20% 50V 0603
2746	2238 586 59812	100nF 20% 50V 0603
2747	4822 126 14524	68pF 5% 50V 0402
2748	2238 586 59812	100nF 20% 50V 0603
2749	2238 586 59812	100nF 20% 50V 0603
2750	2020 552 96618	1nF 10% 50V 0402
2751	2020 552 96618	1nF 10% 50V 0402
2752	2020 552 96618	1nF 10% 50V 0402
2753	2020 552 96618	1nF 10% 50V 0402
2754	2020 552 96618	1nF 10% 50V 0402
2755	2020 552 96618	1nF 10% 50V 0402
2756	2020 552 96618	1nF 10% 50V 0402
2757	2238 787 15641	22nF 5% 16V 0402
2759	2020 552 96618	1nF 10% 50V 0402
2760	2238 787 15641	22nF 5% 16V 0402
2761	2238 787 15641	22nF 5% 16V 0402
2762	2238 787 15641	22nF 5% 16V 0402
2763	2238 787 15641	22nF 5% 16V 0402
2764	2238 787 15641	22nF 5% 16V 0402
2768	2238 787 15641	22nF 5% 16V 0402
2769	2020 552 96618	1nF 10% 50V 0402
2770	2020 552 96618	1nF 10% 50V 0402
2771	2020 552 96618	1nF 10% 50V 0402
2772	2238 787 15641	22nF 5% 16V 0402
2773	2020 552 96618	1nF 10% 50V 0402
2777	2020 552 96618	1nF 10% 50V 0402
2778	2020 552 96618	1nF 10% 50V 0402
2780	2020 552 96618	1nF 10% 50V 0402
2781	2020 552 96618	1nF 10% 50V 0402
2782	2020 552 96618	1nF 10% 50V 0402
2784	2238 787 15641	22nF 5% 16V 0402
2785	2238 787 15641	22nF 5% 16V 0402
2788	2238 586 59812	100nF 20% 50V 0603
2789	2238 586 59812	100nF 20% 50V 0603
2790	2238 586 59812	100nF 20% 50V 0603
2791	2238 586 59812	100nF 20% 50V 0603
2792	2238 586 59812	100nF 20% 50V 0603
2793	2238 586 59812	100nF 20% 50V 0603
2794	2020 552 96618	1nF 10% 50V 0402
2795	2020 552 96618	1nF 10% 50V 0402
2796	2020 552 96618	1nF 10% 50V 0402
2797	2020 552 96618	1nF 10% 50V 0402
2798	2020 552 96618	1nF 10% 50V 0402
2799	2020 552 96618	1nF 10% 50V 0402
2800	2238 586 59812	100nF 20% 50V 0603
2802	2238 586 59812	100nF 20% 50V 0603
2804	2238 586 59812	100nF 20% 50V 0603
2805	2020 552 96618	1nF 10% 50V 0402
2806	2238 586 59812	100nF 20% 50V 0603
2807	2238 586 59812	100nF 20% 50V 0603
2808	2020 552 96618	1nF 10% 50V 0402
2809	2020 552 96618	1nF 10% 50V 0402
2810	2238 586 59812	100nF 20% 50V 0603
2811	2238 586 59812	100nF 20% 50V 0603
2812	3198 031 02290	22Ω 5% 0.1W 0402
2813	2238 586 59812	100nF 20% 50V 0603
2817	2238 586 59812	100nF 20% 50V 0603
2819	2238 586 59812	100nF 20% 50V 0603
2821	2238 787 15641	22nF 5% 16V 0402
2822	2238 787 15641	22nF 5% 16V 0402
2823	2238 586 59812	100nF 20% 50V 0603
2824	2238 586 59812	100nF 20% 50V 0603
2825	2238 586 59812	100nF 20% 50V 0603
2826	2238 586 59812	100nF 20% 50V 0603
2827	2238 586 59812	100nF 20% 50V 0603
2829	2020 021 91557	100µF 20% 16V
2830	2238 586 59812	100nF 20% 50V 0603
2831	2238 586 59812	100nF 20% 50V 0603
2832	2238 586 59812	100nF 20% 50V 0603
2833	2238 586 59812	100nF 20% 50V 0603
2834	2238 586 59812	100nF 20% 50V 0603
2835	2238 586 59812	100nF 20% 50V 0603
2836	2238 586 59812	100nF 20% 50V 0603
2837	2238 869 15101	100pF 5% 50V 0402
2838	2238 869 15101	100pF 5% 50V 0402
2844	2238 586 59812	100nF 20% 50V 0603
2845	2238 586 59812	100nF 20% 50V 0603
2846	2238 586 59812	100nF 20% 50V 0603
2848	2238 586 59812	100nF 20% 50V 0603
2849	2238 586 59812	100nF 20% 50V 0603
2850	2238 586 59812	100nF 20% 50V 0603
2851	2238 586 59812	100nF 20% 50V 0603
2852	2238 586 59812	100nF 20% 50V 0603
2853	2238 586 59812	100nF 20% 50V 0603
2854	2238 586 59812	100nF 20% 50V 0603
2855	2238 586 59812	100nF 20% 50V 0603
2856	2238 586 59812	100nF 20% 50V 0603
2857	2238 586 59812	100nF 20% 50V 0603
2858	2238 586 59812	100nF 20% 50V 0603
2859	2238 586 59812	100nF 20% 50V 0603
2860	2238 586 59812	100nF 20% 50V 0603
2861	2238 586 59812	100nF 20% 50V 0603
2862	2238 586 59812	100nF 20% 50V 0603
2863	2238 586 59812	100nF 20% 50V 0603
2864	2238 586 59812	100nF 20% 50V 0603
2865	2238 586 59812	100nF 20% 50V 0603
2866	2238 586 59812	100nF 20% 50V 0603
2867	2238 586 59812	100nF 20% 50V 0603
2868	2238 586 59812	100nF 20% 50V 0603
2869	2238 586 59812	100nF 20% 50V 0603
2870	2238 586 59812	100nF 20% 50V 0603
2871	2020 021 91557	100µF 20% 16V
2872	2238 586 59812	100nF 20% 50V 0603
2873	2238 586 59812	100nF 20% 50V 0603
2874	2238 586 59812	100nF 20% 50V 0603
2875	2238 586 59812	100nF 20% 50V 0603
2876	2238 586 59812	100nF 20% 50V 0603
2877	2238 586 59812	100nF 20% 50V 0603
2878	2238 586 59812	100nF 20% 50V 0603

2879	2238 586 59812	100nF 20% 50V 0603
2880	2238 586 59812	100nF 20% 50V 0603
2881	3198 034 02790	47pF 1% 50V 0402
2882	2238 586 59812	100nF 20% 50V 0603
2883	2238 586 59812	100nF 20% 50V 0603
2884	2238 586 59812	100nF 20% 50V 0603
2885	2238 586 59812	100nF 20% 50V 0603
2886	2238 586 59812	100nF 20% 50V 0603
2887	2238 586 59812	100nF 20% 50V 0603
2888	2238 586 59812	100nF 20% 50V 0603
2889	2020 021 91557	100µF 20% 16V
2890	2238 586 59812	100nF 20% 50V 0603
2891	2238 586 59812	100nF 20% 50V 0603
2892	2238 586 59812	100nF 20% 50V 0603
2893	2238 586 59812	100nF 20% 50V 0603
2894	2238 586 59812	100nF 20% 50V 0603
2895	2020 021 91854	10µF 20% 16V
2898	2020 021 91854	10µF 20% 16V
2899	2238 586 59812	100nF 20% 50V 0603
2917	2238 586 59812	100nF 20% 50V 0603
2919	2020 021 91557	100µF 20% 16V
2920	2238 586 59812	100nF 20% 50V 0603
2921	2238 586 59812	100nF 20% 50V 0603
2922	2020 552 96628	10nF 10% 16V 0402
2923	2020 552 96628	10nF 10% 16V 0402
2924	2238 586 59812	100nF 20% 50V 0603
2937	2020 021 91557	100µF 20% 16V
2939	2020 021 91557	100µF 20% 16V
2A00	2020 552 96618	1nF 10% 50V 0402
2A01	2020 552 96618	1nF 10% 50V 0402
2A02	2022 552 05679	1µF 10% 16V 0805
2A03	2020 021 91557	100µF 20% 16V
2A04	2022 552 05679	1µF 10% 16V 0805
2A05	2020 021 91557	100µF 20% 16V
2A06	2020 552 96618	1nF 10% 50V 0402
2A07	2020 552 96618	1nF 10% 50V 0402
2A08	2022 552 05679	1µF 10% 16V 0805
2A10	2238 586 59812	100nF 20% 50V 0603
2A11	2238 586 59812	100nF 20% 50V 0603
2A14	2020 552 96618	1nF 10% 50V 0402
2A15	2020 021 91557	100µF 20% 16V
2A16	2238 586 59812	100nF 20% 50V 0603
2A17	2020 552 96618	1nF 10% 50V 0402
2A18	2020 021 91557	100µF 20% 16V
2A20	2022 552 05679	1µF 10% 16V 0805
2A21	2238 586 59812	100nF 20% 50V 0603
2A22	2238 586 59812	100nF 20% 50V 0603
2A23	2238 586 59812	100nF 20% 50V 0603
2A25	2238 869 15101	100pF 5% 50V 0402
2A26	2022 552 05679	1µF 10% 16V 0805
2A27	2020 552 96618	1nF 10% 50V 0402
2A29	2238 869 15101	100pF 5% 50V 0402
2A30	2238 869 15101	100pF 5% 50V 0402
2A31	2022 552 05679	1µF 10% 16V 0805
2A32	2238 869 15101	100pF 5% 50V 0402
2A33	2238 586 59812	100nF 20% 50V 0603
2A35	2020 552 96618	1nF 10% 50V 0402
2A36	2238 869 15101	100pF 5% 50V 0402
2A37	2238 869 15101	100pF 5% 50V 0402
2A39	2022 552 05679	1µF 10% 16V 0805
2A40	2238 586 59812	100nF 20% 50V 0603
2A41	2020 021 91854	10µF 20% 16V
2A42	2020 021 91854	10µF 20% 16V
2A43	2020 021 91854	10µF 20% 16V
2A44	2238 586 59812	100nF 20% 50V 0603
2A46	2022 552 05679	1µF 10% 16V 0805
2A47	2022 552 05679	1µF 10% 16V 0805
2A49	2022 552 05679	1µF 10% 16V 0805
2A50	2020 552 96618	1nF 10% 50V 0402
2A53	2022 552 05679	1µF 10% 16V 0805
2A54	2020 552 96618	1nF 10% 50V 0402
2A56	2022 552 05679	1µF 10% 16V 0805
2A59	2022 552 05679	1µF 10% 16V 0805
2A62	2022 552 05679	1µF 10% 16V 0805
2A79	2238 586 59812	100nF 20% 50V 0603
2A91	2238 869 15101	100pF 5% 50V 0402
2A92	2022 552 05679	1µF 10% 16V 0805
2A95	2238 869 15221	220pF 1% 50V 0402
2A99	2022 552 05679	1µF 10% 16V 0805
2AA5	2238 869 15101	100pF 5% 50V 0402
2AA6	2020 552 96618	1nF 10% 50V 0402
2AA7	2020 552 96618	1nF 10% 50V 0402
2AA9	3198 034 05680	5.6pF 1% 50V 0402
2AB0	3198 034 05680	5.6pF 1% 50V 0402
2AB2	2020 552 96618	1nF 10% 50V 0402
2AB3	2022 552 05679	1µF 10% 16V 0805
2AB4	2022 552 05679	1µF 10% 16V 0805
2AB5	2020 021 91854	10µF 20% 16V
2AB6	2020 552 96618	1nF 10% 50V 0402
2AB7	2020 552 96618	1nF 10% 50V 0402
2AB8	2022 552 05679	1µF 10% 16V 0805
2C00	2238 586 59812	100nF 20% 50V 0603
2C01	2238 586 59812	100nF 20% 50V 0603
2C02	2238 586 59812	100nF 20% 50V 0603
2D04	2020 552 96618	1nF 10% 50V 0402
2D09	2238 586 59812	100nF 20% 50V 0603
2D10	2022 552 05679	1µF 10% 16V 0805
2D11	2020 552 96628	10nF 10% 16V 0402
2D12	2020 552 96628	10nF 10% 16V 0402
2E01	2238 586 59812	100nF 20% 50V 0603
2E02	2238 586 59812	100nF 20% 50V 0603
2E03	2238 586 59812	100nF 20% 50V 0603
2E04	2238 586 59812	100nF 20% 50V 0603
2E06	2238 586 59812	100nF 20% 50V 0603
2E07	2238 586 59812	100nF 20% 50V 0603
2E08	2238 586 59812	100nF 20% 50V 0603
2E09	2238 586 59812	100nF 20% 50V 0603
2E10	2238 586 59812	100nF 20% 50V 0603
2E11	2238 586 59812	100nF 20% 50V 0603
2E12	2238 586 59812	100nF 20% 50V 0603
2E13	2238 586 59812	100nF 20% 50V 0603
2E14	2238 586 59812	100nF 20% 50V 0603
2E15	2238 586 59812	100nF 20% 50V 0603
2E16	2238 586 59812	100nF 20% 50V 0603
2E17	2238 586 59812	100nF 20% 50V 0603
2E18	2238 586 59812	100nF 20% 50V 0603
2E19	2238 586 59812	100nF 20% 50V 0603
2E20	2238 586 59812	100nF 20% 50V 0603
2E21	3198 017 34730	47nF 16V 0603
2E22	4822 126 14519	22pF 5% 50V 0402
2E23	3198 017 34730	47nF 16V 0603
2E24	4822 126 14519	22pF 5% 50V 0402
2E25	3198 017 34730	47nF 16V 0603
2E26	4822 126 14519	22pF 5% 50V 0402
2E27	2238 586 59812	100nF 20% 50V 0603
2E28	3198 017 34730	47nF 16V 0603
2E29	3198 017 33330	33nF 20% 16V 0603
2E34	3198 035 03320	3.3nF 5% 50V 0402
2E35	2238 586 59812	100nF 20% 50V 0603
2E39	2238 869 15109	10pF 5% 50V 0402
2E41	2238 586 59812	100nF 20% 50V 0603
2E42	2020 552 96628	10nF 10% 16V 0402
2E43	2238 586 59812	100nF 20% 50V 0603
2E49	2238 586 59812	100nF 20% 50V 0603
2E50	4822 124 81058	47µF 20% 4V
2E51	2022 552 05679	1µF 10% 16V 0805
2E52	2238 586 59812	100nF 20% 50V 0603
2E54	2238 586 59812	100nF 20% 50V 0603
2E55	2022 552 05679	1µF 10% 16V 0805
2E56	2020 552 96628	10nF 10% 16V 0402
2E57	2020 552 96628	10nF 10% 16V 0402
2E58	2020 552 96628	10nF 10% 16V 0402
2E59	2020 552 96628	10nF 10% 16V 0402
2E62	2238 586 59812	100nF 20% 50V 0603
2E65	2238 586 59812	100nF 20% 50V 0603
2E66	2238 586 59812	100nF 20% 50V 0603
2E67	2238 586 59812	100nF 20% 50V 0603
2E68	2020 552 96628	10nF 10% 16V 0402
2E69	2020 552 96628	10nF 10% 16V 0402
2E70	2020 552 96628	10nF 10% 16V 0402
2E71	2020 552 96628	10nF 10% 16V 0402
2E72	2238 586 59812	100nF 20% 50V 0603
2E73	2238 586 59812	100nF 20% 50V 0603
2E74	2238 586 59812	100nF 20% 50V 0603
2E75	2238 586 59812	100nF 20% 50V 0603
2E77	2238 586 59812	100nF 20% 50V 0603
2E78	2238 586 59812	100nF 20% 50V 0603
2E79	2238 586 59812	100nF 20% 50V 0603
2E80	2238 586 59812	100nF 20% 50V 0603
2E81	2022 552 05679	1µF 10% 16V 0805
2E82	2238 586 59812	100nF 20% 50V 0603
2E83	2238 586 59812	100nF 20% 50V 0603
2E84	2238 586 59812	100nF 20% 50V 0603
2E86	2238 586 59812	100nF 20% 50V 0603
2E87	4822 124 12095	100µF 20% 16V
2E93	2238 586 59812	100nF 20% 50V 0603
2E94	2238 586 59812	100nF 20% 50V 0603
2E96	2238 869 15101	100pF 5% 50V 0402
2E97	2238 869 15101	100pF 5% 50V 0402
2E98	2238 869 15101	100pF 5% 50V 0402
2E99	4822 124 81058	47µF 20% 4V
2I00	2238 869 15101	100pF 5% 50V 0402
2I11	2022 552 05679	1µF 10% 16V 0805
2I12	4822 126 14585	100nF 10% 0805 50V
2I15	2022 552 05679	1µF 10% 16V 0805
2I16	2238 869 15101	100pF 5% 50V 0402
2I17	2238 869 15101	100pF 5% 50V 0402
2I18	2238 869 15101	100pF 5% 50V 0402
2I19	2238 869 15101	100pF 5% 50V 0402
2I20	3198 035 03310	330pF 5% 50V 0402
2I21	2238 869 15101	100pF 5% 50V 0402
2I22	2238 869 15101	100pF 5% 50V 0402
2I23	2238 869 15101	100pF 5% 50V 0402
2I24	2238 869 15101	100pF 5% 50V 0402
2I25	3198 035 03310	330pF 5% 50V 0402
2I26	2238 869 15101	100pF 5% 50V 0402
2I27	2238 869 15101	100pF 5% 50V 0402
2I30	2238 869 15101	100pF 5% 50V 0402
2I32	4822 124 23002	10µF 16V
2I36	2238 869 15101	100pF 5% 50V 0402
2I38	2238 869 15101	100pF 5% 50V 0402
2I46	2020 552 96618	1nF 10% 50V 0402
2I47	2020 552 96618	1nF 10% 50V 0402
2I50	2238 586 59812	100nF 20% 50V 0603
2I57	2238 869 15101	100pF 5% 50V 0402
2I58	2238 869 15101	100pF 5% 50V 0402
2I64	2238 869 15101	100pF 5% 50V 0402
2I65	2238 869 15101	100pF 5% 50V 0402
2I69	4822 126 14324	33pF 5% 50V 0402
2I70	4822 126 14324	33pF 5% 50V 0402
2I86	4822 126 14324	33pF 5% 50V 0402
2I87	2238 869 15101	100pF 5% 50V 0402
2I88	2238 869 15101	100pF 5% 50V 0402
2I89	2022 552 05679	1µF 10% 16V 0805
2I90	2022 552 05679	1µF 10% 16V 0805
2I91	2238 586 59812	100nF 20% 50V 0603
2I92	2022 552 05679	1µF 10% 16V 0805
2I93	2238 586 59812	100nF 20% 50V 0603
2I94	2238 586 59812	100nF 20% 50V 0603
2I95	2238 586 59812	100nF 20% 50V 0603
2I96	2022 552 05679	1µF 10% 16V 0805
2I97	2238 586 59812	100nF 20% 50V 0603
2I98	2238 586 59812	100nF 20% 50V 0603
2I99	4822 124 23002	10µF 16V
2IA0	4822 124 23002	10µF 16V
2IA1	4822 124 23002	10µF 16V
2IA2	4822 124 23002	10µF 16V
2IA3	2020 552 96618	1nF 10% 50V 0402
2IA4	4822 126 14585	100nF 10% 0805 50V
2IA5	2020 021 91557	100µF 20% 16V
2IA9	2020 021 91557	100µF 20% 16V
2IB3	2238 586 59812	100nF 20% 50V 0603
2IB5	2022 552 05679	1µF 10% 16V 0805
2IB8	2238 586 59812	100nF 20% 50V 0603
2IB9	2238 586 59812	100nF 20% 50V 0603
2IC0	4822 124 23002	10µF 16V
2IC1	4822 124 23002	10µF 16V
2IC3	2238 586 59812	100nF 20% 50V 0603
2IC5	2238 586 59812	100nF 20% 50V 0603
2IC6	3198 034 04790	27pF 1% 50V 0402
2IC7	3198 034 04790	27pF 1% 50V 0402
2IC8	2022 552 05679	1µF 10% 16V 0805
2IC9	4822 126 13883	220pF 5% 50V
2IE1	2238 586 59812	100nF 20% 50V 0603
2IE2	2238 586 59812	100nF 20% 50V 0603
2IE3	2022 552 05679	1µF 10% 16V 0805
2IE4	2238 586 59812	100nF 20% 50V 0603
2IE5	2238 586 59812	100nF 20% 50V 0603
2IE6	2238 586 59812	100nF 20% 50V 0603
2IE7	2022 552 05679	1µF 10% 16V 0805
2IE8	2022 552 05679	1µF 10% 16V 0805
2IE9	2238 586 59812	100nF 20% 50V 0603
2IF1	2238 586 59812	100nF 20% 50V 0603
2IF2	2238 586 59812	100nF 20% 50V 0603
2IF3	2238 586 59812	100nF 20% 50V 0603
2IF4	4822 124 80151	47µF 16V
2IF5	2238 586 59812	100nF 20% 50V 0603
2IF8	4822 124 11946	22µF 20% 16V
2IF9	4822 124 11946	22µF 20% 16V
2IG1	2238 586 59812	100nF 20% 50V 0603
2IG2	5322 124 41945	22µF 20% 35V
2IG3	2238 586 59812	100nF 20% 50V 0603
2IG4	2238 586 59812	100nF 20% 50V 0603
2IG5	2238 586 59812	100nF 20% 50V 0603
2IG6	2238 586 59812	100nF 20% 50V 0603
2IG7	2238 586 59812	100nF 20% 50V 0603
2IG8	2238 586 59812	100nF 20% 50V 0603
2IG9	2238 586 59812	100nF 20% 50V 0603
2IH1	2238 586 59812	100nF 20% 50V 0603
2IH2	2238 586 59812	100nF 20% 50V 0603
2IH3	2020 552 96618	1nF 10% 50V 0402
2IH4	2022 552 05679	1µF 10% 16V 0805
2IH5	2238 586 59812	100nF 20% 50V 0603
2IH6	4822 124 11946	22µF 20% 16V
2IH7	4822 124 11946	22µF 20% 16V
2IH8	4822 124 11946	22µF 20% 16V
2IH9	4822 124 11946	22µF 20% 16V
2IJ4	2238 586 59812	100nF 20% 50V 0603
2IJ8	2022 552 05679	1µF 10% 16V 0805
2IJ9	2022 552 05679	1µF 10% 16V 0805
2IK1	2238 780 15654	220nF 10% 16V 0805
2IK5	2238 586 59812	100nF 20% 50V 0603
2IK6	2238 586 59812	100nF 20% 50V 0603
2IK7	2238 586 59812	100nF 20% 50V 0603
2IL0	2238 869 15109	10pF 5% 50V 0402
2IN8	2238 586 59812	100nF 20% 50V 0603
2IN9	2238 586 59812	100nF 20% 50V 0603
2IS6	4822 124 12095	100µF 20% 16V
2L00	4822 124 23237	22µF 6.3V
2L01	2238 586 59812	100nF 20% 50V 0603
2L02	2238 586 59812	100nF 20% 50V 0603
2L03	2238 586 59812	100nF 20% 50V 0603

2L04	2238 586 59812	100nF 20% 50V 0603
2L05	2238 586 59812	100nF 20% 50V 0603
2L06	2238 586 59812	100nF 20% 50V 0603
2L07	2238 586 59812	100nF 20% 50V 0603
2L08	2238 586 59812	100nF 20% 50V 0603
2L09	2238 586 59812	100nF 20% 50V 0603
2L10	2238 586 59812	100nF 20% 50V 0603
2L11	2238 586 59812	100nF 20% 50V 0603
2L12	2238 586 59812	100nF 20% 50V 0603
2L13	2238 586 59812	100nF 20% 50V 0603
2L14	2238 586 59812	100nF 20% 50V 0603
2L15	2238 586 59812	100nF 20% 50V 0603
2L16	2238 586 59812	100nF 20% 50V 0603
2L17	2238 586 59812	100nF 20% 50V 0603
2L19	4822 124 23237	22µF 6.3V
2L20	2238 586 59812	100nF 20% 50V 0603
2L21	2238 586 59812	100nF 20% 50V 0603
2L25	2238 586 59812	100nF 20% 50V 0603
2L26	3198 017 33330	33nF 20% 16V 0603
2L27	3198 035 14720	4.7nF 5% 25V 0402
2L28	3198 034 03990	39pF 1% 50V 0402
2L29	3198 034 03990	39pF 1% 50V 0402
2L30	3198 034 03990	39pF 1% 50V 0402
2L31	3198 017 34730	47nF 16V 0603
2L32	3198 035 03320	3.3nF 5% 50V 0402
2L33	2238 586 59812	100nF 20% 50V 0603
2L34	2238 586 59812	100nF 20% 50V 0603
2L51	4822 124 23237	22µF 6.3V
2L52	3198 017 34730	47nF 16V 0603
2L54	3198 017 34730	47nF 16V 0603
2L56	2020 552 96618	1nF 10% 50V 0402
2L57	3198 017 34730	47nF 16V 0603
2L58	4822 124 23237	22µF 6.3V
2L60	3198 034 04790	27pF 1% 50V 0402
2P80	4822 124 12095	100µF 20% 16V
2P81	2238 586 59812	100nF 20% 50V 0603
2T01	3198 032 28210	220µF 20% 6.3V
2T04	2238 586 15641	22nF 10% 50V 0603
2T05	3198 032 28210	220µF 20% 6.3V
2T06	2020 552 96628	10nF 10% 16V 0402
2T09	3198 017 34730	47nF 16V 0603
2T12	2238 586 59812	100nF 20% 50V 0603
2T13	2020 552 96628	10nF 10% 16V 0402
2T15	2022 552 05679	1µF 10% 16V 0805
2T21	3198 032 28210	220µF 20% 6.3V
2T30	2222 784 13681	22µF 10% 16V X5R 1812
2T31	2222 784 13681	22µF 10% 16V X5R 1812
2T32	2238 586 59812	100nF 20% 50V 0603
2T33	2238 586 59812	100nF 20% 50V 0603
2T34	2020 552 96618	1nF 10% 50V 0402
2T35	2238 586 59812	100nF 20% 50V 0603
2T36	2022 552 05679	1µF 10% 16V 0805
2T37	2020 552 96628	10nF 10% 16V 0402
2T38	2238 586 59812	100nF 20% 50V 0603
2T40	2238 586 59812	100nF 20% 50V 0603
2T41	5322 126 11578	1nF 10% 50V 0603
2T42	2238 916 15641	22nF 10% 25V 0603
2T43	2222 784 13681	22µF 10% 16V X5R 1812
2T44	2020 552 96628	10nF 10% 16V 0402
2T45	2020 552 96628	10nF 10% 16V 0402
2T46	5322 126 11578	1nF 10% 50V 0603
2T47	3198 035 04710	470pF 50V 0402
2T48	2238 586 59812	100nF 20% 50V 0603
2T49	2020 552 96618	1nF 10% 50V 0402
2T50	2020 552 96628	10nF 10% 16V 0402
2T51	2022 552 05679	1µF 10% 16V 0805
2T52	2022 552 05679	1µF 10% 16V 0805
2T53	3198 035 03320	3.3nF 5% 50V 0402
2T54	2238 586 59812	100nF 20% 50V 0603
2U03	2022 552 05679	1µF 10% 16V 0805
2U04	4822 126 14583	470nF 10% 16V 0805
2U05	2020 552 96618	1nF 10% 50V 0402
2U06	2022 552 05635	22µF 10% 16V
2U07	2238 869 75829	82pF 5% 50V 0402
2U08	2222 784 13681	22µF 10% 16V X5R 1812
2U09	2020 552 96618	1nF 10% 50V 0402
2U10	2022 552 05635	22µF 10% 16V
2U11	2020 552 96618	1nF 10% 50V 0402
2U12	2020 552 96628	10nF 10% 16V 0402
2U13	2238 780 15654	220nF 10% 16V 0805
2U14	4822 126 14583	470nF 10% 16V 0805
2U15	4822 124 12095	100µF 20% 16V
2U16	3198 035 14720	4.7nF 5% 25V 0402
2U17	4822 126 14583	470nF 10% 16V 0805
2U18	3198 034 01210	120pF 1% 50V 0402
2U19	2238 586 59812	100nF 20% 50V 0603
2U20	2022 552 05679	1µF 10% 16V 0805
2U21	4822 126 14583	470nF 10% 16V 0805
2U22	2022 552 05679	1µF 10% 16V 0805
2U23	4822 124 12095	100µF 20% 16V
2U24	2020 552 96618	1nF 10% 50V 0402
2U25	2238 586 59812	100nF 20% 50V 0603
2U26	2238 586 59812	100nF 20% 50V 0603
2U27	3198 035 26820	6.8nF 10% 16V 0402
2U28	3198 035 26820	6.8nF 10% 16V 0402
2U30	3198 034 01210	120pF 1% 50V 0402
2U31	4822 124 12095	100µF 20% 16V
2U32	3198 035 03320	3.3nF 5% 50V 0402
2U33	2022 552 05679	1µF 10% 16V 0805
2U34	2238 787 15641	22nF 5% 16V 0402
2U35	2022 552 05679	1µF 10% 16V 0805
2U36	2238 586 59812	100nF 20% 50V 0603
2U37	2020 552 96623	2.2nF 10% 50V 0402
2U39	2238 586 59812	100nF 20% 50V 0603
2U40	2020 552 96623	2.2nF 10% 50V 0402
2U41	3198 035 26820	6.8nF 10% 16V 0402
2U42	3198 017 34730	47nF 16V 0603
2V11	3198 035 04710	470pF 50V 0402
2V12	3198 035 04710	470pF 50V 0402
2Y00	2238 869 15101	100pF 5% 50V 0402
2Y01	2238 869 15101	100pF 5% 50V 0402
2Y02	2238 869 15101	100pF 5% 50V 0402
2Y03	2238 869 15101	100pF 5% 50V 0402
2Y06	2020 552 96618	1nF 10% 50V 0402
2Y07	2238 869 15101	100pF 5% 50V 0402
2Y08	2020 552 96618	1nF 10% 50V 0402
2Y09	2238 869 15101	100pF 5% 50V 0402
2Y10	2238 869 15101	100pF 5% 50V 0402
2Y11	2020 552 96618	1nF 10% 50V 0402
2Y12	2238 869 15101	100pF 5% 50V 0402
2Y14	2238 869 15101	100pF 5% 50V 0402
2Y15	2238 869 15101	100pF 5% 50V 0402
2Y16	2238 869 15101	100pF 5% 50V 0402
2Y17	2238 869 15101	100pF 5% 50V 0402
2Y18	2238 869 15101	100pF 5% 50V 0402
2Y19	2238 869 15101	100pF 5% 50V 0402
2Y22	2020 552 96618	1nF 10% 50V 0402
2Y23	2238 869 15101	100pF 5% 50V 0402
2Y25	2238 869 15101	100pF 5% 50V 0402
2Y26	2238 869 15101	100pF 5% 50V 0402
2Y27	2020 552 96618	1nF 10% 50V 0402
2Y28	2020 552 96618	1nF 10% 50V 0402
2Y29	2020 552 96618	1nF 10% 50V 0402
2Y30	4822 124 12095	100µF 20% 16V
2Y31	4822 124 12095	100µF 20% 16V
2Y32	2020 552 96618	1nF 10% 50V 0402
2Y33	2020 552 96618	1nF 10% 50V 0402
2Y34	2238 869 15101	100pF 5% 50V 0402
2Y37	2238 869 15101	100pF 5% 50V 0402
2Y38	2238 869 15101	100pF 5% 50V 0402
2Y39	2238 869 15101	100pF 5% 50V 0402
2Y40	2238 869 15101	100pF 5% 50V 0402
2Y41	2238 869 15101	100pF 5% 50V 0402
2Y42	2238 869 15101	100pF 5% 50V 0402
2Y43	2238 869 15101	100pF 5% 50V 0402
2Y49	2238 869 15101	100pF 5% 50V 0402
2Y50	2238 869 15101	100pF 5% 50V 0402
2Y51	2238 869 15101	100pF 5% 50V 0402
2Y52	3198 035 71040	100nF 10% 16V 0402
2Y53	2238 869 15101	100pF 5% 50V 0402
2Z44	4822 126 14519	22pF 5% 50V 0402
2Z45	4822 126 14519	22pF 5% 50V 0402
2Z46	4822 126 14519	22pF 5% 50V 0402
2Z47	4822 126 14519	22pF 5% 50V 0402
2Z48	4822 126 14519	22pF 5% 50V 0402
2Z49	4822 126 14519	22pF 5% 50V 0402
2Z50	4822 126 14519	22pF 5% 50V 0402
2Z51	4822 126 14519	22pF 5% 50V 0402
2Z52	4822 126 14519	22pF 5% 50V 0402
2Z53	4822 126 14519	22pF 5% 50V 0402
2Z55	2238 586 59812	100nF 20% 50V 0603
2Z56	2020 552 96618	1nF 10% 50V 0402
2Z63	2238 586 59812	100nF 20% 50V 0603
2Z64	2238 586 59812	100nF 20% 50V 0603

⊣WW⊢

3001	3198 031 04720	4.7kΩ 5% 0402
3002	3198 031 04720	4.7kΩ 5% 0402
3003	4822 117 13525	24kΩ 1% 0.62W 0603
3005	4822 117 13606	10kΩ 5% 0.01W 0402
3006	4822 117 13543	470Ω 5% 0402
3007	2350 033 10471	4 x 470Ω 5%
3008	2350 033 10101	4 x 100Ω 5%
3009	3198 031 01810	180Ω 5% 0402
3010	4822 117 13606	10kΩ 5% 0.01W 0402
3011	3198 031 04720	4.7kΩ 5% 0402
3012	2350 033 10101	4 x 100Ω 5%
3013	4822 117 13606	10kΩ 5% 0.01W 0402
3014	3198 031 06820	6.8kΩ 5% 0.01W 0402
3015	3198 031 04740	470kΩ 5% 0402
3016	2322 706 71502	1.5kΩ 1% 0402
3017	3198 031 04720	4.7kΩ 5% 0402
3018	4822 117 13606	10kΩ 5% 0.01W 0402
3019	3198 031 04720	4.7kΩ 5% 0402
3020	4822 117 13606	10kΩ 5% 0.01W 0402
3021	4822 117 13606	10kΩ 5% 0.01W 0402
3022	3198 031 01230	12kΩ 5% 0402
3023	4822 117 13601	22kΩ 5% 0402
3024	3198 031 02730	27kΩ 5% 0402
3025	4822 117 13596	220Ω 5% 0.01W 0402
3026	3198 031 04720	4.7kΩ 5% 0402
3027	3198 031 04730	47Ω 5% 0402
3028	3198 031 04720	4.7kΩ 5% 0402
3029	2350 033 10101	4 x 100Ω 5%
3030	3198 031 04720	4.7kΩ 5% 0402
3031	2350 033 10101	4 x 100Ω 5%
3032	4822 117 13606	10kΩ 5% 0.01W 0402
3033	4822 117 11297	100kΩ 5% 0.1W
3034	2350 033 10101	4 x 100Ω 5%
3035	2350 033 10101	4 x 100Ω 5%
3036	3198 031 04730	47Ω 5% 0402
3037	4822 117 13548	1kΩ 5% 0402
3038	4822 117 13606	10kΩ 5% 0.01W 0402
3039	4822 117 13597	330Ω 5% 0402 0.01W
3046	2350 033 10101	4 x 100Ω 5%
3048	2350 033 10101	4 x 100Ω 5%
3049	2350 033 10101	4 x 100Ω 5%
3050	2350 033 10101	4 x 100Ω 5%
3051	2350 033 10101	4 x 100Ω 5%
3052	2350 033 10101	4 x 100Ω 5%
3053	4822 117 13606	10kΩ 5% 0.01W 0402
3054	2350 033 10101	4 x 100Ω 5%
3055	2350 033 10101	4 x 100Ω 5%
3056	2350 033 10101	4 x 100Ω 5%
3057	2350 033 10101	4 x 100Ω 5%
3061	2350 033 10101	4 x 100Ω 5%
3062	4822 117 13606	10kΩ 5% 0.01W 0402
3064	2350 033 10101	4 x 100Ω 5%
3065	3198 031 04720	4.7kΩ 5% 0402
3066	3198 031 04730	47Ω 5% 0402
3067	3198 031 04740	470kΩ 5% 0402
3069	3198 031 01820	1.8kΩ 5% 0.01W 0402
3072	2350 033 10101	4 x 100Ω 5%
3073	2350 033 10471	4 x 470Ω 5%
3074	2350 033 10471	4 x 470Ω 5%
3075	2020 552 96628	10nF 10% 16V 0402
3076	2350 033 10471	4 x 470Ω 5%
3077	3198 031 04720	4.7kΩ 5% 0402
3078	2350 033 10471	4 x 470Ω 5%
3079	3198 031 01820	1.8kΩ 5% 0.01W 0402
3080	4822 117 13606	10kΩ 5% 0.01W 0402
3081	4822 117 13543	470Ω 5% 0402
3082	2350 033 10101	4 x 100Ω 5%
3083	2350 033 10101	4 x 100Ω 5%
3084	4822 117 13606	10kΩ 5% 0.01W 0402
3085	2350 033 10101	4 x 100Ω 5%
3086	2350 033 10101	4 x 100Ω 5%
3087	4822 117 13545	100Ω 1% 0402
3088	3198 031 01820	1.8kΩ 5% 0.01W 0402
3089	4822 117 13545	100Ω 1% 0402
3090	2350 033 10471	4 x 470Ω 5%
3092	3198 031 01820	1.8kΩ 5% 0.01W 0402
3093	4822 117 13606	10kΩ 5% 0.01W 0402
3097	4822 117 13543	470Ω 5% 0402
3099	2350 033 10471	4 x 470Ω 5%
3100	4822 117 13596	220Ω 5% 0.01W 0402
3101	4822 117 13596	220Ω 5% 0.01W 0402
3102	2350 033 10101	4 x 100Ω 5%
3103	4822 117 13543	470Ω 5% 0402
3304	2322 750 63908	3.9Ω 5% Fuse 1206
3370	4822 117 13545	100Ω 1% 0402
3371	4822 117 13546	47Ω 5% 0402
3372	4822 117 13543	470Ω 5% 0402
3376	4822 117 13545	100Ω 1% 0402
3377	4822 117 13545	100Ω 1% 0402
3378	3198 031 01530	15kΩ 5% 0.01W 0402
3380	4822 117 13545	100Ω 1% 0402
3382	4822 117 13543	470Ω 5% 0402
3385	4822 117 13543	470Ω 5% 0402
3393	4822 117 11297	100kΩ 5% 0.1W
3400	4822 117 11152	4.7Ω 5%
3402	2322 750 63908	3.9Ω 5% Fuse 1206
3404	3198 031 05610	560Ω 5% 0.01W 0402
3405	4822 117 13548	1kΩ 5% 0402
3406	2322 705 70279	27Ω 5% 0402
3408	4822 117 13545	100Ω 1% 0402
3411	3198 031 02720	2.7kΩ 5% 0.01W 0402
3412	4822 117 11152	4.7Ω 5%
3413	3198 031 02710	270Ω 5% 0.1W 0402
3414	3198 031 04720	4.7kΩ 5% 0402
3415	4822 117 13602	2.2kΩ 5% 0.01W 0402
3418	3198 031 03910	390Ω 1% 0402
3419	3198 031 03390	33Ω 1% 0402
3422	4822 117 13548	1kΩ 5% 0402
3435	3198 031 04720	4.7kΩ 5% 0402
3436	3198 031 01810	180Ω 5% 0402
3437	4822 117 13543	470Ω 5% 0402
3439	4822 117 13597	330Ω 5% 0402 0.01W
3441	3198 031 05620	5.6kΩ 5% 0.01W 0402
3445	4822 117 13543	470Ω 5% 0402

3463	3198 031 04720	4.7kΩ 5% 0402
3473	4822 117 13548	1kΩ 5% 0402
3474	3198 031 01090	10Ω 5% 0.01W 0402
3475	5322 117 11726	10Ω 5%
3476	3198 031 05610	560Ω 5% 0.01W 0402
3700	3198 031 02290	22Ω 5% 0.1W 0402
3701	4822 117 13548	1kΩ 5% 0402
3702	3198 031 01090	10Ω 5% 0.01W 0402
3706	4822 117 13545	100Ω 1% 0402
3707	4822 117 13545	100Ω 1% 0402
3709	4822 117 13545	100Ω 1% 0402
3710	4822 117 13545	100Ω 1% 0402
3712	3198 031 04730	47Ω 5% 0402
3713	3198 031 01810	180Ω 5% 0402
3714	3198 031 01810	180Ω 5% 0402
3715	3198 031 01810	180Ω 5% 0402
3716	4822 117 11297	100kΩ 5% 0.1W
3717	4822 117 11297	100kΩ 5% 0.1W
3718	4822 117 11297	100kΩ 5% 0.1W
3719	3198 031 03320	3.3kΩ 5% 0402
3720	4822 117 13606	10kΩ 5% 0.01W 0402
3721	4822 117 13545	100Ω 1% 0402
3722	4822 117 13548	1kΩ 5% 0402
3724	4822 117 13545	100Ω 1% 0402
3725	3198 031 03320	3.3kΩ 5% 0402
3726	3198 031 01220	1.2kΩ 5% 0.01W 0402
3727	3198 031 01510	150Ω 5% 0.01W 0402
3728	3198 031 01510	150Ω 5% 0.01W 0402
3729	4822 117 13605	Jumper 0402
3730	3198 031 05610	560Ω 5% 0.01W 0402
3732	3198 031 04730	47Ω 5% 0402
3733	4822 117 13548	1kΩ 5% 0402
3734	4822 117 13545	100Ω 1% 0402
3736	4822 117 13545	100Ω 1% 0402
3737	4822 117 13548	1kΩ 5% 0402
3738	4822 117 13548	1kΩ 5% 0402
3739	3198 031 01230	12kΩ 5% 0402
3740	3198 031 04720	4.7kΩ 5% 0402
3742	4822 117 13601	22kΩ 5% 0402
3743	4822 117 13606	10kΩ 5% 0.01W 0402
3744	4822 117 13602	2.2kΩ 5% 0.01W 0402
3745	4822 117 13548	1kΩ 5% 0402
3746	3198 031 03920	3.9kΩ 5% 0402
3747	3198 031 04730	47Ω 5% 0402
3748	2322 705 70124	120kΩ 5% 0402
3749	3198 031 03920	3.9kΩ 5% 0402
3750	3198 031 03920	3.9kΩ 5% 0402
3751	3198 031 03320	3.3kΩ 5% 0402
3752	4822 117 13605	Jumper 0402
3753	4822 117 13605	Jumper 0402
3754	4822 117 13545	100Ω 1% 0402
3755	3198 031 04720	4.7kΩ 5% 0402
3756	4822 117 13606	10kΩ 5% 0.01W 0402
3757	3198 031 01510	150Ω 5% 0.01W 0402
3758	3198 031 04720	4.7kΩ 5% 0402
3759	4822 117 13596	220Ω 5% 0.01W 0402
3762	3198 031 06890	68Ω 5% 0402
3763	3198 031 06890	68Ω 5% 0402
3764	3198 031 06890	68Ω 5% 0402
3766	4822 117 13548	1kΩ 5% 0402
3767	3198 031 06890	68Ω 5% 0402
3768	3198 031 06890	68Ω 5% 0402
3769	3198 031 06890	68Ω 5% 0402
3770	3198 031 06890	68Ω 5% 0402
3771	3198 031 07590	75Ω 5% 0402
3772	3198 031 07590	75Ω 5% 0402
3773	3198 031 07590	75Ω 5% 0402
3774	3198 031 06890	68Ω 5% 0402
3775	3198 031 06890	68Ω 5% 0402
3776	3198 031 07590	75Ω 5% 0402
3777	3198 031 06890	68Ω 5% 0402
3778	3198 031 04720	4.7kΩ 5% 0402
3779	3198 031 06890	68Ω 5% 0402
3780	3198 031 06890	68Ω 5% 0402
3781	3198 031 06890	68Ω 5% 0402
3782	4822 117 13548	1kΩ 5% 0402
3784	3198 031 06890	68Ω 5% 0402
3792	3198 031 01510	150Ω 5% 0.01W 0402
3793	4822 117 13602	2.2kΩ 5% 0.01W 0402
3794	3198 031 07590	75Ω 5% 0402
3795	3198 031 01510	150Ω 5% 0.01W 0402
3797	3198 031 04720	4.7kΩ 5% 0402
3800	3198 031 07590	75Ω 5% 0402
3801	3198 031 01510	150Ω 5% 0.01W 0402
3802	3198 031 01510	150Ω 5% 0.01W 0402
3803	3198 031 06890	68Ω 5% 0402
3804	3198 031 06890	68Ω 5% 0402
3805	4822 117 13545	100Ω 1% 0402
3811	3198 031 07590	75Ω 5% 0402
3812	3198 031 07590	75Ω 5% 0402
3814	3198 031 07590	75Ω 5% 0402
3815	3198 031 07590	75Ω 5% 0402
3817	3198 031 07590	75Ω 5% 0402
3818	3198 031 07590	75Ω 5% 0402
3820	3198 031 04720	4.7kΩ 5% 0402
3821	3198 031 03390	33Ω 1% 0402
3823	3198 031 06890	68Ω 5% 0402
3826	4822 117 13545	100Ω 1% 0402
3827	4822 117 13545	100Ω 1% 0402
3829	4822 117 13545	100Ω 1% 0402
3830	3198 031 06890	68Ω 5% 0402
3831	3198 031 06890	68Ω 5% 0402
3832	3198 031 06890	68Ω 5% 0402
3833	3198 031 06890	68Ω 5% 0402
3834	3198 031 06890	68Ω 5% 0402
3835	3198 031 06890	68Ω 5% 0402
3836	3198 031 06890	68Ω 5% 0402
3837	3198 031 06890	68Ω 5% 0402
3838	3198 031 06890	68Ω 5% 0402
3839	3198 031 06890	68Ω 5% 0402
3840	3198 031 06890	68Ω 5% 0402
3841	3198 031 06890	68Ω 5% 0402
3842	3198 031 06890	68Ω 5% 0402
3843	3198 031 06890	68Ω 5% 0402
3844	3198 031 06890	68Ω 5% 0402
3845	3198 031 06890	68Ω 5% 0402
3846	3198 031 04720	4.7kΩ 5% 0402
3853	3198 031 04730	47Ω 5% 0402
3855	3198 031 04720	4.7kΩ 5% 0402
3856	3198 031 01090	10Ω 5% 0.01W 0402
3857	3198 031 01090	10Ω 5% 0.01W 0402
3858	3198 031 01090	10Ω 5% 0.01W 0402
3859	3198 031 01090	10Ω 5% 0.01W 0402
3860	3198 031 01090	10Ω 5% 0.01W 0402
3861	3198 031 01090	10Ω 5% 0.01W 0402
3864	4822 117 13545	100Ω 1% 0402
3865	4822 117 13545	100Ω 1% 0402
3867	4822 117 13545	100Ω 1% 0402
3868	4822 117 13545	100Ω 1% 0402
3869	4822 117 13545	100Ω 1% 0402
3870	4822 117 13545	100Ω 1% 0402
3871	4822 117 13545	100Ω 1% 0402
3872	4822 117 13545	100Ω 1% 0402
3873	4822 117 13545	100Ω 1% 0402
3880	3198 031 04730	47Ω 5% 0402
3881	3198 031 04730	47Ω 5% 0402
3882	3198 031 04730	47Ω 5% 0402
3883	3198 031 04730	47Ω 5% 0402
3884	3198 031 04730	47Ω 5% 0402
3885	4822 117 13548	1kΩ 5% 0402
3886	4822 117 13548	1kΩ 5% 0402
3887	4822 117 13548	1kΩ 5% 0402
3888	4822 117 13548	1kΩ 5% 0402
3889	4822 117 13548	1kΩ 5% 0402
3890	4822 117 13548	1kΩ 5% 0402
3891	4822 117 13548	1kΩ 5% 0402
3894	3198 031 01510	150Ω 5% 0.01W 0402
3896	4822 117 13605	Jumper 0402
3900	3198 031 06890	68Ω 5% 0402
3901	3198 031 06890	68Ω 5% 0402
3902	3198 031 06890	68Ω 5% 0402
3903	4822 117 11297	100kΩ 5% 0.1W
3905	3198 031 04720	4.7kΩ 5% 0402
3909	4822 117 13545	100Ω 1% 0402
3911	2350 033 11689	4x 68Ω 5% Netw.
3912	2350 033 11689	4x 68Ω 5% Netw.
3913	2350 033 11229	4x 22Ω 5% Netw.
3914	2350 033 11229	4x 22Ω 5% Netw.
3915	2350 033 11229	4x 22Ω 5% Netw.
3916	2350 033 11229	4x 22Ω 5% Netw.
3917	2350 033 11229	4x 22Ω 5% Netw.
3918	3198 031 06890	68Ω 5% 0402
3919	3198 031 06890	68Ω 5% 0402
3921	3198 031 06890	68Ω 5% 0402
3A00	4822 117 13601	22kΩ 5% 0402
3A01	4822 117 13606	10kΩ 5% 0.01W 0402
3A03	4822 117 13568	6.8Ω 5% 1206
3A04	4822 117 13601	22kΩ 5% 0402
3A05	4822 117 13601	22kΩ 5% 0402
3A06	4822 117 11297	100kΩ 5% 0.1W
3A07	4822 117 11297	100kΩ 5% 0.1W
3A09	4822 117 13601	22kΩ 5% 0402
3A11	4822 117 11297	100kΩ 5% 0.1W
3A12	3198 031 04730	47Ω 5% 0402
3A13	3198 031 04730	47Ω 5% 0402
3A14	3198 031 04730	47Ω 5% 0402
3A15	4822 117 11297	100kΩ 5% 0.1W
3A16	4822 117 13545	100Ω 1% 0402
3A17	4822 117 13545	100Ω 1% 0402
3A18	3198 031 06830	68kΩ 5% 0.01W 0402
3A19	4822 117 13545	100Ω 1% 0402
3A20	4822 117 11297	100kΩ 5% 0.1W
3A21	3198 031 06830	68kΩ 5% 0.01W 0402
3A22	4822 117 11297	100kΩ 5% 0.1W
3A23	3198 031 06830	68kΩ 5% 0.01W 0402
3A24	3198 031 06810	680Ω 5% 0.01W 0402
3A26	3198 031 06830	68kΩ 5% 0.01W 0402
3A27	3198 031 06820	6.8kΩ 5% 0.01W 0402
3A28	3198 031 06820	6.8kΩ 5% 0.01W 0402
3A40	3198 031 01830	18kΩ 5% 0.01W 0402
3A45	3198 031 04730	47Ω 5% 0402
3A46	3198 031 01530	15kΩ 5% 0.01W 0402
3A47	3198 031 04730	47Ω 5% 0402
3A49	3198 031 01830	18kΩ 5% 0.01W 0402
3A51	3198 031 01530	15kΩ 5% 0.01W 0402
3A52	3198 031 05630	56kΩ 5% 0402
3A53	3198 031 05630	56kΩ 5% 0402
3A55	4822 117 13597	330Ω 5% 0402 0.01W
3A60	4822 117 11297	100kΩ 5% 0.1W
3A61	4822 117 13597	330Ω 5% 0402 0.01W
3A63	4822 117 13601	22kΩ 5% 0402
3A64	3198 031 04730	47Ω 5% 0402
3A65	4822 117 11297	100kΩ 5% 0.1W
3A66	4822 117 11297	100kΩ 5% 0.1W
3C00	4822 117 13602	2.2kΩ 5% 0.01W 0402
3C01	3198 031 01090	10Ω 5% 0.01W 0402
3C03	4822 117 13606	10kΩ 5% 0.01W 0402
3C04	4822 117 13606	10kΩ 5% 0.01W 0402
3C05	4822 117 13543	470Ω 5% 0402
3C08	4822 051 30103	10kΩ 5% 0.062W
3C10	4822 117 13545	100Ω 1% 0402
3C11	4822 117 13545	100Ω 1% 0402
3C12	3198 031 06890	68Ω 5% 0402
3E00	4822 117 13606	10kΩ 5% 0.01W 0402
3E01	4822 117 13548	1kΩ 5% 0402
3E02	4822 117 13548	1kΩ 5% 0402
3E03	4822 117 13548	1kΩ 5% 0402
3E04	4822 117 13548	1kΩ 5% 0402
3E05	3198 031 01520	1.2kΩ 5% 0.01W 0402
3E06	4822 117 13545	100Ω 1% 0402
3E07	4822 117 13545	100Ω 1% 0402
3E08	4822 117 13545	100Ω 1% 0402
3E11	4822 117 13543	470Ω 5% 0402
3E12	4822 117 13543	470Ω 5% 0402
3E14	4822 117 13548	1kΩ 5% 0402
3E16	3198 031 02720	2.7kΩ 5% 0.01W 0402
3E18	4822 117 13545	100Ω 1% 0402
3E19	4822 117 13545	100Ω 1% 0402
3E37	4822 117 13545	100Ω 1% 0402
3E50	4822 117 13606	10kΩ 5% 0.01W 0402
3E51	4822 117 13606	10kΩ 5% 0.01W 0402
3E52	4822 117 13606	10kΩ 5% 0.01W 0402
3E53	4822 117 13606	10kΩ 5% 0.01W 0402
3E54	4822 117 13546	47Ω 5% 0402
3E55	4822 117 13606	10kΩ 5% 0.01W 0402
3E56	4822 117 13603	33kΩ 5% 0402
3E57	4822 117 11297	100kΩ 5% 0.1W
3E58	4822 117 13546	47Ω 5% 0402
3E59	4822 117 13606	10kΩ 5% 0.01W 0402
3E61	4822 117 13546	47Ω 5% 0402
3E62	4822 117 13548	1kΩ 5% 0402
3E63	4822 117 13606	10kΩ 5% 0.01W 0402
3E64	4822 117 13606	10kΩ 5% 0.01W 0402
3E69	3198 031 04720	4.7kΩ 5% 0402
3E70	3198 031 04720	4.7kΩ 5% 0402
3E73	4822 117 13606	10kΩ 5% 0.01W 0402
3E74	4822 117 13546	47Ω 5% 0402
3E77	4822 117 13546	47Ω 5% 0402
3E78	4822 117 13546	47Ω 5% 0402
3E79	4822 117 13546	47Ω 5% 0402
3E80	4822 117 13546	47Ω 5% 0402
3E81	4822 117 13546	47Ω 5% 0402
3E82	3198 031 01090	10Ω 5% 0.01W 0402
3E83	3198 031 01090	10Ω 5% 0.01W 0402
3E84	3198 031 01090	10Ω 5% 0.01W 0402
3E85	3198 031 01090	10Ω 5% 0.01W 0402
3E86	3198 031 01090	10Ω 5% 0.01W 0402
3E88	4822 117 13546	47Ω 5% 0402
3E89	4822 117 13546	47Ω 5% 0402
3E90	3198 031 06890	68Ω 5% 0402
3E91	3198 031 03390	33Ω 1% 0402
3I07	4822 117 13606	10kΩ 5% 0.01W 0402
3I08	4822 117 13597	330Ω 5% 0402 0.01W
3I28	4822 117 13545	100Ω 1% 0402
3I29	4822 051 30759	75Ω 5% 0.062W
3I30	4822 051 30759	75Ω 5% 0.062W
3I31	4822 051 30759	75Ω 5% 0.062W
3I32	4822 117 13548	1kΩ 5% 0402
3I33	4822 051 30101	100Ω 5% 0.062W
3I34	4822 117 13606	10kΩ 5% 0.01W 0402
3I35	4822 051 30101	100Ω 5% 0.062W
3I36	4822 117 13601	22kΩ 5% 0402
3I37	4822 117 13601	22kΩ 5% 0402
3I38	4822 117 13601	22kΩ 5% 0402
3I40	4822 051 30101	100Ω 5% 0.062W
3I41	4822 117 13548	1kΩ 5% 0402
3I42	4822 117 13548	1kΩ 5% 0402
3I44	4822 117 13606	10kΩ 5% 0.01W 0402
3I45	3198 031 04730	47Ω 5% 0402
3I46	4822 117 13545	100Ω 1% 0402
3I47	4822 117 13602	2.2kΩ 5% 0.01W 0402
3I49	4822 117 13545	100Ω 1% 0402

3I50	4822 051 30271	270Ω 5% 0.062W
3I51	4822 051 30101	100Ω 5% 0.062W
3I52	4822 051 30271	270Ω 5% 0.062W
3I53	4822 051 30101	100Ω 5% 0.062W
3I54	4822 051 30101	100Ω 5% 0.062W
3I55	4822 051 30759	75Ω 5% 0.062W
3I56	4822 051 30101	100Ω 5% 0.062W
3I57	4822 051 30759	75Ω 5% 0.062W
3I58	4822 051 30101	100Ω 5% 0.062W
3I59	4822 051 30759	75Ω 5% 0.062W
3I60	4822 051 30759	75Ω 5% 0.062W
3I61	4822 051 30101	100Ω 5% 0.062W
3I62	4822 051 30101	100Ω 5% 0.062W
3I63	4822 051 30392	3.9Ω 5% 0.063W 0603
3I64	3198 031 08220	8.2kΩ 5% 0.5W
3I65	4822 051 30101	100Ω 5% 0.062W
3I66	4822 051 30759	75Ω 5% 0.062W
3I67	4822 051 30759	75Ω 5% 0.062W
3I68	4822 051 30101	100Ω 5% 0.062W
3I69	4822 051 30271	270Ω 5% 0.062W
3I70	4822 051 30101	100Ω 5% 0.062W
3I71	4822 051 30271	270Ω 5% 0.062W
3I72	4822 051 30101	100Ω 5% 0.062W
3I75	4822 051 30101	100Ω 5% 0.062W
3I76	4822 051 30101	100Ω 5% 0.062W
3I77	4822 051 30759	75Ω 5% 0.062W
3I78	4822 051 30759	75Ω 5% 0.062W
3I79	4822 051 30101	100Ω 5% 0.062W
3I80	4822 051 30101	100Ω 5% 0.062W
3I81	3198 031 08220	8.2kΩ 5% 0.5W
3I82	4822 051 30392	3.9Ω 5% 0.063W 0603
3I83	4822 051 30101	100Ω 5% 0.062W
3I84	4822 051 30759	75Ω 5% 0.062W
3I86	4822 051 30759	75Ω 5% 0.062W
3I87	4822 051 30101	100Ω 5% 0.062W
3I88	4822 051 30759	75Ω 5% 0.062W
3I89	4822 051 30271	270Ω 5% 0.062W
3I90	4822 051 30101	100Ω 5% 0.062W
3I91	4822 051 30271	270Ω 5% 0.062W
3I92	4822 051 30101	100Ω 5% 0.062W
3I98	4822 117 13605	Jumper 0402
3I99	4822 051 30271	270Ω 5% 0.062W
3IA0	4822 051 30101	100Ω 5% 0.062W
3IA2	4822 051 30101	100Ω 5% 0.062W
3IA3	4822 117 13601	22kΩ 5% 0402
3IA4	4822 117 13548	1kΩ 5% 0402
3IA5	4822 117 13548	1kΩ 5% 0402
3IA6	4822 117 13548	1kΩ 5% 0402
3IA7	4822 117 13548	1kΩ 5% 0402
3IA8	4822 117 13548	1kΩ 5% 0402
3IB2	4822 117 13545	100Ω 1% 0402
3IB4	4822 117 13601	22kΩ 5% 0402
3IB5	4822 117 13601	22kΩ 5% 0402
3IC1	4822 117 13574	1.5Ω 5% 1206
3IC2	4822 117 13601	22kΩ 5% 0402
3IC3	4822 117 13601	22kΩ 5% 0402
3IC4	4822 117 13545	100Ω 1% 0402
3IC6	4822 117 13545	100Ω 1% 0402
3IC8	3198 031 05610	560Ω 5% 0.01W 0402
3IC9	4822 117 13601	22kΩ 5% 0402
3ID0	3198 031 04720	4.7kΩ 5% 0402
3ID1	3198 031 01540	150kΩ 5% 0402
3ID5	3198 031 01090	10Ω 5% 0.01W 0402
3ID7	4822 117 11297	100kΩ 5% 0.1W
3ID8	4822 117 11297	100kΩ 5% 0.1W
3ID9	3198 031 05610	560Ω 5% 0.01W 0402
3IE2	4822 117 13545	100Ω 1% 0402
3IE3	4822 117 13545	100Ω 1% 0402
3IE7	3198 031 01090	10Ω 5% 0.01W 0402
3IE9	4822 117 13601	22kΩ 5% 0402
3IF0	4822 117 13545	100Ω 1% 0402
3IF5	4822 117 13601	22kΩ 5% 0402
3IF6	4822 051 30101	100Ω 5% 0.062W
3IF7	4822 051 30101	100Ω 5% 0.062W
3IG0	3198 031 05610	560Ω 5% 0.01W 0402
3IG1	3198 031 01090	10Ω 5% 0.01W 0402
3IG3	3198 031 05610	560Ω 5% 0.01W 0402
3IG4	3198 031 01090	10Ω 5% 0.01W 0402
3IG6	3198 031 05610	560Ω 5% 0.01W 0402
3IG7	3198 031 01090	10Ω 5% 0.01W 0402
3IH1	3198 031 04730	47Ω 5% 0402
3IH7	3198 031 05610	560Ω 5% 0.01W 0402
3IH8	3198 031 04730	47Ω 5% 0402
3IH9	3198 031 04730	47Ω 5% 0402
3IHA	4822 117 13545	100Ω 1% 0402
3IHB	4822 117 13545	100Ω 1% 0402
3IHC	4822 117 13545	100Ω 1% 0402
3IHG	3198 021 31820	1.8kΩ 5% 0.062W 0603
3II0	4822 117 13606	10kΩ 5% 0.01W 0402
3II1	4822 117 13601	22kΩ 5% 0402
3II2	4822 117 13601	22kΩ 5% 0402
3II3	3198 031 04730	47Ω 5% 0402
3II4	3198 031 04730	47Ω 5% 0402
3II6	4822 117 13601	22kΩ 5% 0402
3II7	4822 117 13601	22kΩ 5% 0402
3II9	4822 117 13548	1kΩ 5% 0402
3IJ8	4822 117 13548	1kΩ 5% 0402
3IK0	4822 117 13548	1kΩ 5% 0402
3IK2	4822 117 13601	22kΩ 5% 0402
3IK3	4822 117 13601	22kΩ 5% 0402
3IK7	4822 117 11152	4.7Ω 5%
3IN1	4822 117 13548	1kΩ 5% 0402
3IN4	4822 117 11748	Fuse 2.2Ω 5% 1206
3IN5	4822 117 13601	22kΩ 5% 0402
3IN6	4822 117 13601	22kΩ 5% 0402
3IN8	3198 031 01090	10Ω 5% 0.01W 0402
3IO5	4822 117 13606	10kΩ 5% 0.01W 0402
3IO6	4822 117 13606	10kΩ 5% 0.01W 0402
3IP0	3198 031 08220	8.2kΩ 5% 0.5W
3IP1	4822 117 13602	2.2kΩ 5% 0.01W 0402
3IP2	4822 117 13596	220Ω 5% 0.01W 0402
3IP3	4822 051 30759	75Ω 5% 0.062W
3IP4	3198 031 02710	270Ω 5% 0.1W 0402
3IP5	4822 117 11748	Fuse 2.2Ω 5% 1206
3IP6	4822 117 13548	1kΩ 5% 0402
3IP7	3198 031 02720	2.7kΩ 5% 0.01W 0402
3IP8	4822 117 13548	1kΩ 5% 0402
3IQ0	3198 031 01090	10Ω 5% 0.01W 0402
3IQ5	3198 031 04730	47Ω 5% 0402
3IQ6	4822 117 13545	100Ω 1% 0402
3IQ7	4822 117 13545	100Ω 1% 0402
3IQ8	3198 031 03320	3.3kΩ 5% 0402
3IQ9	4822 117 13548	1kΩ 5% 0402
3IR1	3198 031 02710	270Ω 5% 0.1W 0402
3IR2	3198 031 04720	4.7kΩ 5% 0402
3IR3	3198 031 04720	4.7kΩ 5% 0402
3IR4	4822 117 13545	100Ω 1% 0402
3IR5	4822 117 13546	47Ω 5% 0402
3IR6	4822 117 13546	47Ω 5% 0402
3IR7	4822 117 13543	470Ω 5% 0402
3IR8	3198 031 03320	3.3kΩ 5% 0402
3IR9	2322 706 71201	120Ω 1% 0402
3IS0	2322 706 71201	120Ω 1% 0402
3IS1	2322 706 71201	120Ω 1% 0402
3IS2	4822 117 13545	100Ω 1% 0402
3IS5	2322 706 71201	120Ω 1% 0402
3IT0	3198 031 04730	47Ω 5% 0402
3IT1	3198 031 04730	47Ω 5% 0402
3IT4	3198 031 04730	47Ω 5% 0402
3IT5	2322 706 71201	120Ω 1% 0402
3IT6	2322 706 71201	120Ω 1% 0402
3IT7	4822 117 13548	1kΩ 5% 0402
3IT8	4822 117 13548	1kΩ 5% 0402
3IT9	4822 117 13597	330Ω 5% 0402 0.01W
3IU0	4822 117 11748	Fuse 2.2Ω 5% 1206
3IV0	3198 031 08220	8.2kΩ 5% 0.5W
3IV1	4822 117 13548	1kΩ 5% 0402
3IV2	4822 117 13543	470Ω 5% 0402
3IV3	4822 117 13548	1kΩ 5% 0402
3IW4	3198 031 06820	6.8kΩ 5% 0.01W 0402
3IW5	3198 031 02720	2.7kΩ 5% 0.01W 0402
3IY1	4822 117 13601	22kΩ 5% 0402
3IY2	3198 031 01540	150kΩ 5% 0402
3IY3	4822 117 11297	100kΩ 5% 0.1W
3IY4	4822 117 11297	100kΩ 5% 0.1W
3L03	4822 117 13545	100Ω 1% 0402
3L04	4822 117 13545	100Ω 1% 0402
3L05	4822 117 13545	100Ω 1% 0402
3L06	4822 117 13545	100Ω 1% 0402
3L08	3198 031 02720	2.7kΩ 5% 0.01W 0402
3L11	4822 117 13545	100Ω 1% 0402
3L12	4822 117 13543	470Ω 5% 0402
3L28	4822 117 13543	470Ω 5% 0402
3L29	3198 031 01510	150Ω 5% 0.01W 0402
3L30	3198 031 01510	150Ω 5% 0.01W 0402
3L31	3198 031 01510	150Ω 5% 0.01W 0402
3L32	4822 117 13543	470Ω 5% 0402
3L33	4822 117 13543	470Ω 5% 0402
3P65	4822 117 13545	100Ω 1% 0402
3P66	4822 117 13545	100Ω 1% 0402
3P67	3198 031 04720	4.7kΩ 5% 0402
3P69	3198 031 04720	4.7kΩ 5% 0402
3P70	3198 031 04720	4.7kΩ 5% 0402
3P72	3198 031 04720	4.7kΩ 5% 0402
3T10	4822 117 13606	10kΩ 5% 0.01W 0402
3T11	4822 117 13606	10kΩ 5% 0.01W 0402
3T12	4822 117 13548	1kΩ 5% 0402
3T13	4822 117 13606	10kΩ 5% 0.01W 0402
3T14	3198 031 04730	47Ω 5% 0402
3T15	4822 117 13606	10kΩ 5% 0.01W 0402
3T16	4822 117 11297	100kΩ 5% 0.1W
3T17	4822 117 13606	10kΩ 5% 0.01W 0402
3T18	3198 031 02720	2.7kΩ 5% 0.01W 0402
3T19	4822 117 13596	220Ω 5% 0.01W 0402
3T20	2322 706 71002	1kΩ 1% 0402
3T22	3198 031 04720	4.7kΩ 5% 0402
3T23	4822 117 13548	1kΩ 5% 0402
3T24	2322 706 73902	3.9kΩ 1% 0402
3T25	3198 031 06820	6.8kΩ 5% 0.01W 0402
3T26	4822 117 13613	2.2Ω 5% 0603
3T27	4822 051 30109	10Ω 5% 0.062W
3T28	4822 051 30109	10Ω 5% 0.062W
3T29	4822 117 13606	10kΩ 5% 0.01W 0402
3T30	4822 117 13606	10kΩ 5% 0.01W 0402
3T31	4822 117 13545	100Ω 1% 0402
3T32	4822 117 13548	1kΩ 5% 0402
3T33	5322 117 11726	10Ω 5%
3T51	4822 117 13548	1kΩ 5% 0402
3T52	4822 117 13606	10kΩ 5% 0.01W 0402
3T53	3198 031 04740	470kΩ 5% 0402
3T54	4822 117 13606	10kΩ 5% 0.01W 0402
3T55	4822 117 13606	10kΩ 5% 0.01W 0402
3T56	4822 117 13606	10kΩ 5% 0.01W 0402
3T57	4822 051 30101	100Ω 5% 0.062W
3T58	3198 031 04730	47Ω 5% 0402
3T59	4822 117 13606	10kΩ 5% 0.01W 0402
3T60	4822 117 13608	4.7Ω 5% 0603 0.62W
3U01	4822 051 30102	1kΩ 5% 0.062W
3U02	4822 117 13548	1kΩ 5% 0402
3U03	4822 117 13603	33kΩ 5% 0402
3U04	4822 051 20121	120Ω 5% 0.1W
3U05	4822 117 13548	1kΩ 5% 0402
3U06	4822 117 13543	470Ω 5% 0402
3U07	3198 031 02290	22Ω 5% 0.1W 0402
3U08	2322 706 71502	1.5kΩ 1% 0402
3U09	3198 031 05620	5.6kΩ 5% 0.01W 0402
3U10	4822 117 13596	220Ω 5% 0.01W 0402
3U11	4822 051 30121	120Ω 5% 0.062W
3U12	4822 117 13601	22kΩ 5% 0402
3U13	4822 117 13606	10kΩ 5% 0.01W 0402
3U14	4822 051 30102	1kΩ 5% 0.062W
3U15	2322 706 73302	3.3kΩ 1% 0402
3U16	3198 031 01210	120Ω 5% 0.01W 0402
3U17	3198 031 04780	4.7Ω 5% 0402
3U18	2322 706 71002	1kΩ 1% 0402
3U19	3198 031 04720	4.7kΩ 5% 0402
3U20	2322 706 71002	1kΩ 1% 0402
3U21	3198 031 04730	47Ω 5% 0402
3U22	3198 031 02710	270Ω 5% 0.1W 0402
3U23	3198 031 01090	10Ω 5% 0.01W 0402
3U24	4822 117 13601	22kΩ 5% 0402
3U25	3198 031 02240	220kΩ 5% 0.1W 0402
3U26	4822 117 13601	22kΩ 5% 0402
3U27	4822 117 13601	22kΩ 5% 0402
3U28	3198 031 04730	47Ω 5% 0402
3U29	4822 051 30109	10Ω 5% 0.062W
3U30	4822 051 20121	120Ω 5% 0.1W
3U31	4822 051 20121	120Ω 5% 0.1W
3U32	3198 031 01830	18kΩ 5% 0.01W 0402
3U33	4822 117 13606	10kΩ 5% 0.01W 0402
3U34	3198 031 04740	470kΩ 5% 0402
3U35	4822 117 13606	10kΩ 5% 0.01W 0402
3U36	4822 117 13602	2.2kΩ 5% 0.01W 0402
3U37	4822 117 13601	22kΩ 5% 0402
3U38	4822 117 13602	2.2kΩ 5% 0.01W 0402
3U39	4822 117 13601	22kΩ 5% 0402
3U40	3198 031 01540	150kΩ 5% 0402
3U41	4822 117 13548	1kΩ 5% 0402
3U42	4822 117 13606	10kΩ 5% 0.01W 0402
3U43	4822 117 13601	22kΩ 5% 0402
3U44	3198 031 01050	1MΩ 5% 0402
3U45	3198 031 01050	1MΩ 5% 0402
3U46	2322 706 74703	47kΩ 1% 0402
3U51	9965 000 23109	22Ω 5% 0603
3U52	4822 051 30102	1kΩ 5% 0.062W
3U53	3198 031 01830	18kΩ 5% 0.01W 0402
3U54	4822 117 13545	100Ω 1% 0402
3U55	4822 051 30102	1kΩ 5% 0.062W
3U56	3198 031 04720	4.7kΩ 5% 0402
3U57	4822 117 13606	10kΩ 5% 0.01W 0402
3U60	4822 117 13548	1kΩ 5% 0402
3U61	4822 117 13606	10kΩ 5% 0.01W 0402
3U62	4822 117 13548	1kΩ 5% 0402
3U63	4822 117 13602	2.2kΩ 5% 0.01W 0402
3U64	4822 117 13548	1kΩ 5% 0402
3U65	4822 117 13548	1kΩ 5% 0402
3U66	4822 117 13606	10kΩ 5% 0.01W 0402
3U67	4822 117 13545	100Ω 1% 0402
3U68	4822 117 13606	10kΩ 5% 0.01W 0402
3U69	4822 117 13548	1kΩ 5% 0402
3U70	4822 051 30102	1kΩ 5% 0.062W
3V01	3198 031 01810	180Ω 5% 0402
3V02	3198 031 01810	180Ω 5% 0402
3V17	3198 031 01810	180Ω 5% 0402
3V19	3198 031 01810	180Ω 5% 0402
3V20	3198 031 01810	180Ω 5% 0402
3V21	2350 033 11689	4x 68Ω 5% Netw.
3V22	2350 033 11689	4x 68Ω 5% Netw.
3V23	2350 033 11689	4x 68Ω 5% Netw.
3V24	2350 033 11689	4x 68Ω 5% Netw.
3V25	3198 031 01810	180Ω 5% 0402
3V26	3198 031 01810	180Ω 5% 0402

3V27	3198 031 01810	180Ω 5% 0402
3V28	3198 031 01810	180Ω 5% 0402
3V29	3198 031 01810	180Ω 5% 0402
3V30	3198 031 01810	180Ω 5% 0402
3V31	3198 031 01810	180Ω 5% 0402
3V32	3198 031 01810	180Ω 5% 0402
3V33	3198 031 01810	180Ω 5% 0402
3V34	3198 031 01810	180Ω 5% 0402
3V35	4822 117 13545	100Ω 1% 0402
3V36	4822 117 13545	100Ω 1% 0402
3V37	4822 117 13545	100Ω 1% 0402
3V38	4822 117 13545	100Ω 1% 0402
3V39	3198 031 04720	4.7kΩ 5% 0402
3V40	4822 117 13545	100Ω 1% 0402
3V50	4822 117 13606	10kΩ 5% 0.01W 0402
3V51	4822 117 13606	10kΩ 5% 0.01W 0402
3V52	4822 117 13606	10kΩ 5% 0.01W 0402
3V53	4822 117 13606	10kΩ 5% 0.01W 0402
3V54	4822 117 13606	10kΩ 5% 0.01W 0402
3V55	4822 117 13606	10kΩ 5% 0.01W 0402
3V56	4822 117 13545	100Ω 1% 0402
3Y00	4822 117 13545	100Ω 1% 0402
3Y02	4822 117 13545	100Ω 1% 0402
3Y04	4822 117 13602	2.2kΩ 5% 0.01W 0402
3Y05	4822 117 13545	100Ω 1% 0402
3Y06	4822 117 13543	470Ω 5% 0402
3Y09	4822 117 13545	100Ω 1% 0402
3Y10	4822 117 13545	100Ω 1% 0402
3Y11	4822 117 13545	100Ω 1% 0402
3Y12	4822 117 13545	100Ω 1% 0402
3Y13	4822 117 13543	470Ω 5% 0402
3Y14	3198 031 04720	4.7kΩ 5% 0402
3Y17	4822 117 13545	100Ω 1% 0402
3Y18	4822 117 13545	100Ω 1% 0402
3Y19	4822 117 13545	100Ω 1% 0402
3Y20	3198 031 06890	68Ω 5% 0402
3Y21	3198 031 06890	68Ω 5% 0402
3Y22	3198 031 06890	68Ω 5% 0402
3Y23	3198 031 06890	68Ω 5% 0402
3Y24	4822 117 11297	100kΩ 5% 0.1W
3Y25	4822 117 13545	100Ω 1% 0402
3Y34	4822 117 13545	100Ω 1% 0402
3Y35	4822 117 13545	100Ω 1% 0402
3Y36	4822 117 13545	100Ω 1% 0402
3Y37	3198 031 04720	4.7kΩ 5% 0402
3Y38	4822 117 13602	2.2kΩ 5% 0.01W 0402
3Y39	4822 117 13606	10kΩ 5% 0.01W 0402
3Y40	4822 117 13545	100Ω 1% 0402
3Z22	3198 031 04720	4.7kΩ 5% 0402
3Z23	4822 117 13545	100Ω 1% 0402
3Z30	4822 117 13606	10kΩ 5% 0.01W 0402
3Z31	4822 117 13606	10kΩ 5% 0.01W 0402
3Z32	4822 117 13606	10kΩ 5% 0.01W 0402
3Z33	4822 117 13606	10kΩ 5% 0.01W 0402
3Z37	3198 031 04720	4.7kΩ 5% 0402
3Z56	4822 117 13548	1kΩ 5% 0402
9001	4822 117 13605	Jumper 0402
9002	4822 117 13605	Jumper 0402
9007	4822 117 13605	Jumper 0402
9010	4822 117 13605	Jumper 0402
9011	4822 117 13605	Jumper 0402
9012	4822 117 13605	Jumper 0402
9013	4822 117 13605	Jumper 0402
9023	4822 117 13605	Jumper 0402
9024	4822 117 13605	Jumper 0402
9322	4822 117 13605	Jumper 0402
9410	4822 117 13605	Jumper 0402
9413	4822 117 13605	Jumper 0402
9416	4822 117 13605	Jumper 0402
9417	4822 117 13605	Jumper 0402
9418	4822 117 13605	Jumper 0402
9419	4822 117 13605	Jumper 0402
9420	4822 117 13605	Jumper 0402
9423	4822 117 13605	Jumper 0402
9424	4822 117 13605	Jumper 0402
9425	4822 117 13605	Jumper 0402
9426	4822 117 13605	Jumper 0402
9427	4822 117 13545	100Ω 1% 0402
9428	4822 117 13605	Jumper 0402
9702	4822 117 13605	Jumper 0402
9704	4822 117 13605	Jumper 0402
9706	4822 117 13605	Jumper 0402
9707	4822 117 13605	Jumper 0402
9708	4822 117 13605	Jumper 0402
9709	4822 117 13605	Jumper 0402
9710	4822 117 13605	Jumper 0402
9713	4822 117 13605	Jumper 0402
9714	4822 117 13605	Jumper 0402
9715	4822 117 13605	Jumper 0402
9716	4822 117 13605	Jumper 0402
9717	4822 117 13605	Jumper 0402
9718	4822 117 13605	Jumper 0402
9720	4822 117 13605	Jumper 0402
9721	4822 117 13605	Jumper 0402
9722	4822 117 13605	Jumper 0402
9723	4822 117 13605	Jumper 0402
9727	4822 117 13605	Jumper 0402
9728	4822 117 13605	Jumper 0402
9730	4822 117 13605	Jumper 0402
9732	4822 117 13605	Jumper 0402
9751	4822 117 13605	Jumper 0402
9752	4822 117 13605	Jumper 0402
9753	4822 117 13605	Jumper 0402
9754	4822 117 13605	Jumper 0402
9755	4822 117 13605	Jumper 0402
9756	4822 117 13605	Jumper 0402
9757	4822 117 13605	Jumper 0402
9758	4822 117 13605	Jumper 0402
9760	4822 117 13605	Jumper 0402
9761	4822 117 13605	Jumper 0402
9762	4822 117 13605	Jumper 0402
9763	4822 117 13605	Jumper 0402
9765	4822 117 13605	Jumper 0402
9766	4822 117 13605	Jumper 0402
9772	4822 117 13605	Jumper 0402
9773	4822 117 13605	Jumper 0402
9774	4822 117 13605	Jumper 0402
9775	4822 117 13605	Jumper 0402
9800	4822 117 13605	Jumper 0402
9801	4822 117 13605	Jumper 0402
9802	4822 117 13605	Jumper 0402
9803	4822 117 13605	Jumper 0402
9804	4822 117 13605	Jumper 0402
9805	4822 117 13605	Jumper 0402
9806	4822 117 13605	Jumper 0402
9808	4822 117 13605	Jumper 0402
9809	4822 117 13605	Jumper 0402
9811	4822 117 13605	Jumper 0402
9812	4822 117 13605	Jumper 0402
9815	4822 117 13605	Jumper 0402
9816	4822 117 13605	Jumper 0402
9817	4822 117 13605	Jumper 0402
9818	4822 117 13605	Jumper 0402
9820	4822 117 13605	Jumper 0402
9821	4822 117 13605	Jumper 0402
9822	4822 117 13605	Jumper 0402
9823	3198 031 06890	68Ω 5% 0402
9825	4822 117 13605	Jumper 0402
9826	4822 117 13605	Jumper 0402
9827	4822 117 13605	Jumper 0402
9A00	4822 117 13605	Jumper 0402
9A01	4822 117 13605	Jumper 0402
9A04	4822 117 13605	Jumper 0402
9A05	4822 117 13605	Jumper 0402
9A06	4822 117 13605	Jumper 0402
9A07	4822 117 13605	Jumper 0402
9A25	4822 117 13605	Jumper 0402
9A65	4822 117 13605	Jumper 0402
9A67	4822 051 20008	Jumper 0805
9A71	4822 051 20008	Jumper 0805
9C02	4822 117 13605	Jumper 0402
9E60	4822 117 13605	Jumper 0402
9E62	4822 117 13605	Jumper 0402
9E65	4822 117 13605	Jumper 0402
9E66	4822 117 13605	Jumper 0402
9E67	4822 117 13605	Jumper 0402
9E68	4822 117 13605	Jumper 0402
9E69	4822 117 13605	Jumper 0402
9E70	4822 117 13605	Jumper 0402
9E71	4822 117 13605	Jumper 0402
9E72	4822 117 13605	Jumper 0402
9E73	4822 117 13605	Jumper 0402
9E74	4822 117 13605	Jumper 0402
9E76	4822 117 13605	Jumper 0402
9E77	4822 117 13605	Jumper 0402
9I00	4822 117 13605	Jumper 0402
9I02	4822 117 13605	Jumper 0402
9I07	4822 117 13605	Jumper 0402
9I15	4822 117 13605	Jumper 0402
9I28	4822 117 13605	Jumper 0402
9I30	4822 117 13605	Jumper 0402
9I31	4822 117 13605	Jumper 0402
9I32	4822 117 13605	Jumper 0402
9I33	4822 117 13605	Jumper 0402
9I34	4822 117 13605	Jumper 0402
9I35	4822 117 13605	Jumper 0402
9I39	4822 117 13605	Jumper 0402
9I45	4822 117 13605	Jumper 0402
9I49	4822 117 13605	Jumper 0402
9I68	4822 117 13605	Jumper 0402
9I85	4822 117 13605	Jumper 0402
9IA5	4822 117 13605	Jumper 0402
9IA7	4822 117 13605	Jumper 0402
9ID0	4822 117 13605	Jumper 0402
9ID1	4822 117 13605	Jumper 0402
9ID3	4822 117 13605	Jumper 0402
9ID5	4822 117 13605	Jumper 0402
9ID8	4822 117 13605	Jumper 0402
9ID9	4822 117 13605	Jumper 0402
9P69	4822 117 13605	Jumper 0402
9P70	4822 117 13605	Jumper 0402
9P71	4822 117 13605	Jumper 0402
9T01	4822 117 13601	22kΩ 5% 0402
9T04	4822 117 13605	Jumper 0402
9T07	4822 117 13605	Jumper 0402
9T08	4822 117 13605	Jumper 0402
9T11	4822 117 13605	Jumper 0402
9T12	4822 117 13605	Jumper 0402
9T14	4822 117 13605	Jumper 0402
9T50	4822 117 13605	Jumper 0402
9Y00	3198 031 01090	10Ω 5% 0.01W 0402
9Y01	4822 117 13605	Jumper 0402
9Y03	4822 117 13605	Jumper 0402
9Y05	4822 117 13605	Jumper 0402
9Y06	4822 117 13605	Jumper 0402
9Y12	4822 117 13605	Jumper 0402
9Y13	4822 117 13605	Jumper 0402
9Y16	4822 117 13605	Jumper 0402
9Y99	4822 320 12423	Speaker cable

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5003	4822 157 11716	Bead 30Ω at 100MHz
5401	3198 018 56880	6.8µH 10% 0603
5403	2422 549 00195	Bead 40.4MHz
5404	4822 157 11506	Bead 120Ω at 100MHz
5405	4822 157 11506	Bead 120Ω at 100MHz
5406	3198 018 52280	2.2µF 10% 1008
5408	2422 549 00232	Trimmer 78MHz 5JKH
5411	4822 157 11892	0.22µH 10% 0805
5416	4822 157 11716	Bead 30Ω at 100MHz
5703	4822 157 11716	Bead 30Ω at 100MHz
5705	4822 157 11876	6.8µH 10% 0805
5713	4822 157 11716	Bead 30Ω at 100MHz
5714	4822 157 11716	Bead 30Ω at 100MHz
5719	4822 157 11716	Bead 30Ω at 100MHz
5720	4822 157 11716	Bead 30Ω at 100MHz
5722	4822 157 11716	Bead 30Ω at 100MHz
5723	4822 157 11716	Bead 30Ω at 100MHz
5726	4822 157 11716	Bead 30Ω at 100MHz
5728	4822 157 11716	Bead 30Ω at 100MHz
5750	4822 157 11716	Bead 30Ω at 100MHz
5751	4822 157 11716	Bead 30Ω at 100MHz
5752	4822 157 11716	Bead 30Ω at 100MHz
5753	4822 157 11716	Bead 30Ω at 100MHz
5755	4822 157 11716	Bead 30Ω at 100MHz
5756	4822 157 11716	Bead 30Ω at 100MHz
5757	4822 157 11716	Bead 30Ω at 100MHz
5758	4822 157 11716	Bead 30Ω at 100MHz
5759	4822 157 11716	Bead 30Ω at 100MHz
5760	4822 157 11716	Bead 30Ω at 100MHz
5761	4822 157 11716	Bead 30Ω at 100MHz
5762	4822 157 11716	Bead 30Ω at 100MHz
5763	4822 157 11716	Bead 30Ω at 100MHz
5764	4822 157 11716	Bead 30Ω at 100MHz
5767	4822 157 11716	Bead 30Ω at 100MHz
5768	4822 157 11716	Bead 30Ω at 100MHz
5769	4822 157 11716	Bead 30Ω at 100MHz
5770	4822 157 11716	Bead 30Ω at 100MHz
5771	4822 157 11716	Bead 30Ω at 100MHz
5772	4822 157 11716	Bead 30Ω at 100MHz
5775	4822 157 11716	Bead 30Ω at 100MHz
5777	4822 157 11716	Bead 30Ω at 100MHz
5778	4822 157 11876	6.8µH 10% 0805
5800	4822 157 11716	Bead 30Ω at 100MHz
5801	4822 157 11716	Bead 30Ω at 100MHz
5A00	4822 157 11716	Bead 30Ω at 100MHz
5A01	4822 157 11716	Bead 30Ω at 100MHz
5A02	4822 157 11716	Bead 30Ω at 100MHz
5A03	4822 157 11716	Bead 30Ω at 100MHz
5A06	4822 157 11716	Bead 30Ω at 100MHz
5A19	4822 157 11828	22µH 20% 0805
5E00	4822 156 21729	Bead 1kΩ 100MHz 0805
5E01	2422 549 42896	Bead 120Ω 100MHz
5E02	4822 156 21729	Bead 1kΩ 100MHz 0805
5E03	4822 156 21729	Bead 1kΩ 100MHz 0805
5E50	4822 157 11499	Bead 60Ω at 100MHz
5E51	2422 549 42896	Bead 120Ω 100MHz
5E52	2422 549 43062	Bead 600Ω at 100MHz
5E53	2422 536 00779	10µH 20%
5E54	4822 157 11499	Bead 60Ω at 100MHz
5E55	2422 549 43062	Bead 600Ω at 100MHz
5E58	2422 549 43062	Bead 600Ω at 100MHz
5I05	4822 157 11716	Bead 30Ω at 100MHz
5I06	4822 157 11716	Bead 30Ω at 100MHz
5I12	4822 157 11716	Bead 30Ω at 100MHz
5I13	4822 157 11716	Bead 30Ω at 100MHz
5I21	4822 157 11716	Bead 30Ω at 100MHz
5I22	4822 157 11716	Bead 30Ω at 100MHz
5I30	4822 157 11716	Bead 30Ω at 100MHz
5I31	4822 157 11716	Bead 30Ω at 100MHz

5I32	4822 157 11716	Bead 30Ω at 100MHz
5I33	4822 157 11716	Bead 30Ω at 100MHz
5I34	4822 157 11716	Bead 30Ω at 100MHz
5I35	4822 157 11716	Bead 30Ω at 100MHz
5I36	4822 157 11892	0.22µH 10% 0805
5I37	4822 157 11892	0.22µH 10% 0805
5I38	4822 157 11892	0.22µH 10% 0805
5I39	4822 157 11716	Bead 30Ω at 100MHz
5I40	4822 157 11716	Bead 30Ω at 100MHz
5I41	4822 157 11716	Bead 30Ω at 100MHz
5I42	4822 156 21729	Bead 1kΩ 100MHz 0805
5I45	4822 157 11716	Bead 30Ω at 100MHz
5I46	4822 157 11716	Bead 30Ω at 100MHz
5I47	4822 157 11716	Bead 30Ω at 100MHz
5L02	3198 018 54770	0.47µF 10% 0603
5L04	3198 018 54770	0.47µF 10% 0603
5L06	3198 018 54770	0.47µF 10% 0603
5L13	4822 156 21729	Bead 1kΩ 100MHz 0805
5L14	4822 156 21729	Bead 1kΩ 100MHz 0805
5L15	4822 156 21729	Bead 1kΩ 100MHz 0805
5L16	4822 157 11716	Bead 30Ω at 100MHz
5L17	4822 157 11716	Bead 30Ω at 100MHz
5L18	4822 157 11716	Bead 30Ω at 100MHz
5P51	4822 157 11716	Bead 30Ω at 100MHz
5T10	2422 536 00779	10µH 20%
5T11	2422 535 94995	10µF 20% 10145
5T14	2422 549 44197	Bead 220Ω at 100MHz
5T15	2422 549 44197	Bead 220Ω at 100MHz
5T20	4822 157 11716	Bead 30Ω at 100MHz
5T22	4822 157 11716	Bead 30Ω at 100MHz
5T25	2422 535 94134	10µH 20% 0805
5U01	3104 308 20661	Transf. BD13118-02
5U02	2422 536 00779	10µH 20%
5U03	2422 549 44197	Bead 220Ω at 100MHz
5U04	2422 549 44197	Bead 220Ω at 100MHz
5U05	2422 536 00779	10µH 20%
5U06	2422 536 00779	10µH 20%
5Y00	4822 157 11716	Bead 30Ω at 100MHz
5Y01	4822 157 11716	Bead 30Ω at 100MHz
5Y02	2422 549 44197	Bead 220Ω at 100MHz
5Y03	2422 549 44197	Bead 220Ω at 100MHz
5Y06	4822 157 11716	Bead 30Ω at 100MHz
5Y07	4822 157 11716	Bead 30Ω at 100MHz
5Y11	4822 157 11716	Bead 30Ω at 100MHz
5Y12	4822 157 11716	Bead 30Ω at 100MHz
5Y14	4822 157 11716	Bead 30Ω at 100MHz
5Y15	4822 157 11716	Bead 30Ω at 100MHz
5Y16	4822 157 11716	Bead 30Ω at 100MHz
5Y17	4822 157 11716	Bead 30Ω at 100MHz
5Y18	4822 157 11716	Bead 30Ω at 100MHz
5Y19	4822 157 11716	Bead 30Ω at 100MHz
5Y20	4822 157 11716	Bead 30Ω at 100MHz
5Y21	4822 117 10353	150Ω 1% 0.1W
5Y22	4822 117 10353	150Ω 1% 0.1W
5Y23	4822 157 11716	Bead 30Ω at 100MHz
5Z01	2422 549 45325	Bead 67Ω at 100MHz
5Z02	2422 549 45325	Bead 67Ω at 100MHz
5Z03	2422 549 45325	Bead 67Ω at 100MHz
5Z04	2422 549 45325	Bead 67Ω at 100MHz
5Z05	2422 549 45325	Bead 67Ω at 100MHz
5Z06	2422 549 44197	Bead 220Ω at 100MHz
5Z07	2422 549 44197	Bead 220Ω at 100MHz
5Z08	2422 549 44197	Bead 220Ω at 100MHz

6001	4822 130 80622	BAT54
6003	4822 130 80622	BAT54
6004	4822 130 80622	BAT54
6005	4822 130 11422	PLVA2650A
6006	4822 130 11564	UDZ3.9B
6403	9340 552 30115	BA591
6701	4822 130 11397	BAS316
6702	4822 130 11397	BAS316
6703	4822 130 11397	BAS316
6705	4822 130 11397	BAS316
6710	4822 130 11397	BAS316
6711	4822 130 11397	BAS316
6712	4822 130 11397	BAS316
6713	4822 130 11397	BAS316
6714	4822 130 11397	BAS316
6715	4822 130 11397	BAS316
6717	4822 130 11397	BAS316
6718	4822 130 11397	BAS316
6719	9322 128 69685	S1D
6720	4822 130 11397	BAS316
6721	4822 130 11397	BAS316
6723	4822 130 11397	BAS316
6A00	4822 130 11551	UDZS10B
6A01	4822 130 11397	BAS316
6A02	9322 159 70685	MM3Z9V1
6E51	4822 130 11397	BAS316
6E52	4822 130 11397	BAS316
6E53	4822 130 11397	BAS316
6E54	4822 130 11397	BAS316
6E55	4822 130 11397	BAS316
6E56	4822 130 11397	BAS316
6I01	4822 130 10328	BAV99W
6I06	4822 130 10328	BAV99W
6I07	4822 130 10328	BAV99W
6I08	4822 130 11423	PLVA2656A
6I09	4822 130 11423	PLVA2656A
6I10	4822 130 11397	BAS316
6I11	4822 130 11397	BAS316
6I12	4822 130 11397	BAS316
6I13	4822 130 11397	BAS316
6I14	4822 130 10328	BAV99W
6I15	4822 130 10328	BAV99W
6I16	4822 130 10328	BAV99W
6I17	4822 130 10328	BAV99W
6I18	4822 130 10328	BAV99W
6I19	4822 130 10328	BAV99W
6I20	4822 130 10328	BAV99W
6I21	4822 130 10328	BAV99W
6I22	4822 130 11416	PDZ6.8B
6I23	4822 130 11416	PDZ6.8B
6I24	4822 130 11416	PDZ6.8B
6I25	4822 130 11416	PDZ6.8B
6I26	4822 130 11416	PDZ6.8B
6I27	4822 130 11416	PDZ6.8B
6I28	4822 130 11416	PDZ6.8B
6I29	4822 130 11416	PDZ6.8B
6I30	4822 130 11416	PDZ6.8B
6I31	4822 130 11416	PDZ6.8B
6I32	4822 130 11416	PDZ6.8B
6I33	4822 130 11416	PDZ6.8B
6I35	4822 130 11416	PDZ6.8B
6I36	4822 130 11416	PDZ6.8B
6I37	4822 130 11416	PDZ6.8B
6I38	4822 130 11416	PDZ6.8B
6I39	4822 130 11416	PDZ6.8B
6I40	4822 130 11416	PDZ6.8B
6I41	4822 130 11416	PDZ6.8B
6I42	4822 130 11416	PDZ6.8B
6I43	4822 130 11416	PDZ6.8B
6I44	4822 130 11416	PDZ6.8B
6I45	4822 130 11416	PDZ6.8B
6I46	4822 130 11416	PDZ6.8B
6I47	4822 130 11416	PDZ6.8B
6I48	4822 130 11416	PDZ6.8B
6I49	9322 129 41685	BZM55-C12
6I50	4822 130 11416	PDZ6.8B
6I51	4822 130 11416	PDZ6.8B
6I52	4822 130 11416	PDZ6.8B
6I53	4822 130 11416	PDZ6.8B
6I54	4822 130 11416	PDZ6.8B
6I55	4822 130 11416	PDZ6.8B
6I56	4822 130 11416	PDZ6.8B
6I61	4822 130 11416	PDZ6.8B
6I63	4822 130 11397	BAS316
6I64	4822 130 11397	BAS316
6I65	4822 130 11397	BAS316
6I66	4822 130 11397	BAS316
6I68	4822 130 11416	PDZ6.8B
6I69	4822 130 11416	PDZ6.8B
6I70	4822 130 11416	PDZ6.8B
6I75	4822 130 11416	PDZ6.8B
6I77	4822 130 11416	PDZ6.8B
6I90	4822 130 11416	PDZ6.8B
6I91	4822 130 11416	PDZ6.8B
6I92	4822 130 11416	PDZ6.8B
6I93	4822 130 11416	PDZ6.8B
6I99	4822 130 11422	PLVA2650A
6IA0	9322 129 41685	BZM55-C12
6IA7	4822 130 11397	BAS316
6T01	4822 130 11397	BAS316
6T03	4822 130 11397	BAS316
6T08	9340 548 71115	PDZ33B
6T10	4822 130 11397	BAS316
6T11	9340 548 58115	PDZ9.1B
6U01	4822 130 11397	BAS316
6U03	4822 130 11397	BAS316
6U04	4822 130 11397	BAS316
6U05	9322 129 41685	BZM55-C12
6U06	9322 203 37685	BZG05C3V9
6U07	4822 130 11416	PDZ6.8B
6U08	4822 130 80622	BAT54
6U09	4822 130 80622	BAT54
6U10	4822 130 11522	UDZ15B
6U11	4822 130 11397	BAS316
6U12	9340 548 52115	PDZ5.1B
6U13	9340 548 58115	PDZ9.1B
6U14	4822 130 10328	BAV99W
6U16	9340 548 52115	PDZ5.1B
6U17	4822 130 11416	PDZ6.8B

7001	9352 684 81557	SAA5801H/015
7002	3198 010 42320	BC857BW
7003	3198 010 42310	BC847BW
7004	3198 010 42310	BC847BW
7005	9322 172 45668	LF33ABDT
7006		For SW see item 0601
7007	9322 157 20668	MSM51V18165F-60J
7008	3198 010 42310	BC847BW
7009	3198 010 42310	BC847BW
7010	3198 010 42320	BC857BW
7011	9322 130 41668	M24C64-WMN6
7012	9322 199 93668	M29W400DT-55N6
7013	3198 010 42310	BC847BW
7014	3198 010 42320	BC857BW
7017	9340 310 30215	PDTC144ET
7018	9352 115 40118	74LVC245APW
7019	9352 115 40118	74LVC245APW
7020	3198 010 42310	BC847BW
7021	9340 425 30115	BC847BPN
7022	3198 010 42320	BC857BW
7320	3198 010 42310	BC847BW
7322	3198 010 42310	BC847BW
7323	9352 625 24518	TDA9321H/N2
7402	3198 010 42310	BC847BW
7403	3198 010 42310	BC847BW
7407	3198 010 42320	BC857BW
7410	3198 010 42310	BC847BW
7411	3198 010 42310	BC847BW
7414	3198 010 42310	BC847BW
7415	3198 010 42310	BC847BW
7703	3198 010 42310	BC847BW
7705	3198 010 42310	BC847BW
7706	3198 010 70400	74LVC1G14GW
7707	3198 010 42310	BC847BW
7708	3198 010 42310	BC847BW
7709	3198 010 42310	BC847BW
7710	3198 010 42310	BC847BW
7711		For SW see item 0605
7712	9351 870 00118	74HC573PW
7713	9352 688 09557	SAA4978H/V204
7714	9965 000 02179	MS81V04160-25TB
7715	4822 209 73852	PMBT2369
7717	4822 209 73852	PMBT2369
7719	9322 206 19672	MSM56V16160F-7T3-FG
7720	9322 207 36702	T6TX5EF-0001
7725	4822 209 73852	PMBT2369
7752	9322 202 21671	T6TU5XB-0001
7753	9322 206 19672	MSM56V16160F-7T3-FG
7760	9352 730 86557	SAA4998H/V1
7772	9322 170 14668	LF15ABDT
7773	9322 179 78668	LF18ABDT
7774	9322 142 88668	LF25CDT
7A00	4822 209 30095	LM833D
7A01	3198 010 42310	BC847BW
7A02	9322 196 03702	MSP3411G-QI-B8V3
7A03	4822 209 30095	LM833D
7A04	4822 130 60373	BC856B
7A07	9322 183 05668	TS482ID
7A08	9340 425 20115	BC847BS
7A09	4822 130 60373	BC856B
7A31	9340 425 20115	BC847BS
7E01	9322 142 88668	LF25CDT
7E02		For SW see item 0602
7E03	9352 687 21165	74LVC1G126GW
7E04	9352 687 20125	74LVC1G125GW
7E05	9322 170 14668	LF15ABDT
7E10	9352 759 98118	PCA9515ADP
7E12	9340 425 20115	BC847BS
7E23	9322 181 72671	AD9883AKST-110
7E24	9322 205 36668	AD9283BRSZ-50
7E25	3198 010 42320	BC857BW
7E26	3198 010 42320	BC857BW
7E27	3198 010 42320	BC857BW
7I01	9340 425 20115	BC847BS
7I02	9340 425 20115	BC847BS
7I03	9340 425 20115	BC847BS
7I04	3198 010 42310	BC847BW
7I05	9340 425 30115	BC847BPN
7I07	4822 130 60142	BC869
7I09	3198 010 42310	BC847BW
7I12	9351 869 40118	74HC4053PW
7I18	9322 183 61682	SII907BCQ52
7I19		For SW see item 0603
7I20	9351 869 40118	74HC4053PW
7I21	9340 425 30115	BC847BPN
7I22	3198 010 42310	BC847BW
7I23	9340 425 20115	BC847BS
7I27	3198 010 42320	BC857BW
7I29	3198 010 42320	BC857BW
7I31	3198 010 42320	BC857BW

7I32	9351 869 40118	74HC4053PW
7I35	3198 010 42310	BC847BW
7I36	3198 010 42310	BC847BW
7I37	3198 010 42320	BC857BW
7I38	3198 010 42310	BC847BW
7I44	9340 425 20115	BC847BS
7I49	9340 310 30215	PDTC144ET
7I50	9340 425 30115	BC847BPN
7I51	9340 560 35235	BSH112
7I52	9340 560 35235	BSH112
7I53	9340 425 30115	BC847BPN
7I55	4822 209 16095	BA7657F
7I56	3198 010 42310	BC847BW
7I57	3198 010 42310	BC847BW
7I58	3198 010 42310	BC847BW
7I62	3198 010 42310	BC847BW
7I71	9340 425 30115	BC847BPN
7L01	9322 181 72671	AD9883AKST-110
7L02	4822 209 17398	LD1117DT33
7P56	4822 209 17345	M62320FP
7T01	9322 160 70668	SI4936ADY
7T04	9322 182 77668	L6910
7T10	9340 425 20115	BC847BS
7T11	9340 425 30115	BC847BPN
7T12	3198 010 42310	BC847BW
7T13	9340 425 30115	BC847BPN
7U01	4822 130 60373	BC856B
7U02	4822 130 60373	BC856B
7U03	9322 091 04668	SI4410DY
7U04	9322 091 04668	SI4410DY
7U05	3198 010 42320	BC857BW
7U06	9340 425 20115	BC847BS
7U07	9340 425 30115	BC847BPN
7U08	4822 130 42804	BC817-25
7U09	4822 130 42804	BC817-25
7U10	3198 010 42310	BC847BW
7U11	3198 010 42310	BC847BW
7U12	3198 010 42310	BC847BW
7U13	9340 425 30115	BC847BPN
7V01	9322 200 14671	EP1C12F256C8
7V03	9322 206 19672	MSM56V16160F-7T3-FG
7V04	9340 425 20115	BC847BS
7Y01	9340 310 30215	PDTC144ET
7Y02	3198 010 42320	BC857BW
7Z00	3198 010 42310	BC847BW

Side I/O Panel [D] (FTL2.2E Wrap)

Various

1001	2422 026 05133	Connector SVHS 4p f
1002	4822 267 10975	Soc. CINCH f YeWhRd
1010	4822 267 31014	Soc. headphone
1M36	2422 025 17179	Connector 11p m

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

⊣WW⊢

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

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

Top Control Panel [E] (FTL2.2E Wrap)

Various

0345	2422 025 16544	Connector 6p m
1701	4822 276 13775	Switch 1p 0.1A 12V
1702	4822 276 13775	Switch 1p 0.1A 12V
1703	4822 276 13775	Switch 1p 0.1A 12V
1704	4822 276 13775	Switch 1p 0.1A 12V
1705	4822 276 13775	Switch 1p 0.1A 12V
1710	2422 128 00119	Switch 2p 0.1A 12V
1710	4822 276 14007	Switch 2p 0.1A 12V
8345	3104 311 08141	Cable 6P/480/6P

⊣WW⊢

3008	4822 117 10845	620Ω 1% 0.1W
3010	4822 117 11534	1.1kΩ 1% 0.1W
3011	4822 117 11951	2kΩ 1% 0.1W
3013	4822 117 13528	200Ω 1% 0.125W 0805
3014	3198 031 03910	390Ω 1% 0402
3017	4822 051 30339	33Ω 5% 0.062W
3018	4822 051 30339	33Ω 5% 0.062W
3019	4822 051 30339	33Ω 5% 0.062W
3020	4822 051 30339	33Ω 5% 0.062W
3021	4822 051 30339	33Ω 5% 0.062W
3022	4822 051 30339	33Ω 5% 0.062W
3023	4822 051 30339	33Ω 5% 0.062W
3024	4822 051 30339	33Ω 5% 0.062W
3025	4822 051 30339	33Ω 5% 0.062W
3026	4822 051 30339	33Ω 5% 0.062W
3027	4822 051 30339	33Ω 5% 0.062W
3028	4822 051 30339	33Ω 5% 0.062W
3999	4822 117 13602	2.2kΩ 5% 0.01W 0402
9000	4822 117 13605	Jumper 0402
9001	4822 117 13605	Jumper 0402
9002	4822 117 13605	Jumper 0402

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6001	9322 198 19685	SML512BC2T
6001	9322 208 45685	SML512BC4TL
6002	9322 198 19685	SML512BC2T
6002	9322 208 45685	SML512BC4TL
6003	9322 198 19685	SML512BC2T
6004	9322 198 19685	SML512BC2T
6004	9322 208 45685	SML512BC4TL
6005	9322 198 19685	SML512BC2T
6005	9322 208 45685	SML512BC4TL
6006	9322 198 19685	SML512BC2T
6007	9322 198 19685	SML512BC2T
6008	9322 198 19685	SML512BC2T
6008	9322 208 45685	SML512BC4TL
6009	9322 198 19685	SML512BC2T
6010	9322 198 19685	SML512BC2T
6010	9322 208 45685	SML512BC4TL
6011	9322 198 19685	SML512BC2T
6011	9322 208 45685	SML512BC4TL
6012	9322 198 19685	SML512BC2T

SCART3 Panel [H] (FTL2.2E Wrap)

Various

1003	2422 025 14911	Socket Euro 21p f
1M07	4822 267 10637	Connector 5p
1M36	2422 025 10655	Connector 11p m
1M37	2422 025 10655	Connector 11p m

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2500	2022 552 05679	1µF 10% 16V 0805
2501	2020 552 94427	100pF 5% 50V
2502	2022 552 05679	1µF 10% 16V 0805
2503	2020 552 94427	100pF 5% 50V
2504	2022 552 05679	1µF 10% 16V 0805
2505	2022 552 05679	1µF 10% 16V 0805
2506	2238 586 59812	100nF 20% 50V 0603
2507	5322 126 11578	1nF 10% 50V 0603
2508	2022 552 05679	1µF 10% 16V 0805
2509	2238 586 59812	100nF 20% 50V 0603
2510	4822 126 14241	330pF 0603 50V
2511	2238 586 59812	100nF 20% 50V 0603
2512	2238 586 59812	100nF 20% 50V 0603
2513	2238 586 59812	100nF 20% 50V 0603
2515	2022 552 05679	1µF 10% 16V 0805
2516	2022 552 05679	1µF 10% 16V 0805
2517	2022 552 05679	1µF 10% 16V 0805

⊣WW⊢

3500	4822 051 30101	100Ω 5% 0.062W
3501	4822 051 30101	100Ω 5% 0.062W
3502	4822 051 30223	22kΩ 5% 0.062W
3503	4822 051 30101	100Ω 5% 0.062W
3504	4822 051 30101	100Ω 5% 0.062W
3505	4822 051 30223	22kΩ 5% 0.062W
3506	4822 051 30759	75Ω 5% 0.062W
3507	4822 051 30759	75Ω 5% 0.062W
3508	4822 051 30759	75Ω 5% 0.062W
3509	4822 051 30101	100Ω 5% 0.062W
3510	4822 051 30759	75Ω 5% 0.062W
3511	4822 051 30479	47Ω 5% 0.062W
3512	4822 051 30479	47Ω 5% 0.062W
3513	4822 051 30479	47Ω 5% 0.062W
3514	4822 051 30479	47Ω 5% 0.062W
3515	4822 051 30479	47Ω 5% 0.062W
3516	4822 051 30479	47Ω 5% 0.062W
3517	4822 117 12925	47kΩ 1% 0.063W 0603
3522	4822 051 30272	2.7kΩ 5% 0.062W
3523	4822 051 30223	22kΩ 5% 0.062W
3524	4822 051 30479	47Ω 5% 0.062W
3525	4822 051 30102	1kΩ 5% 0.062W
3526	5322 117 13056	8.2kΩ 1% 0.063W 0603
3527	4822 051 30683	68kΩ 5% 0.062W
3528	4822 051 30223	22kΩ 5% 0.062W
3529	4822 051 30102	1kΩ 5% 0.062W
3535	4822 051 30479	47Ω 5% 0.062W
3536	4822 051 30103	10kΩ 5% 0.062W
3543	4822 051 30759	75Ω 5% 0.062W
3599	4822 051 30102	1kΩ 5% 0.062W
3999	4822 051 30102	1kΩ 5% 0.062W
9502	4822 051 30008	Jumper 0603
9508	4822 051 30008	Jumper 0603
9521	4822 051 30008	Jumper 0603
9524	4822 051 30008	Jumper 0603

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6500	4822 130 11416	PDZ6.8B
6501	4822 130 11416	PDZ6.8B
6502	4822 130 11416	PDZ6.8B
6503	4822 130 11416	PDZ6.8B
6504	4822 130 11397	BAS316
6505	4822 130 11416	PDZ6.8B
6506	4822 130 11416	PDZ6.8B
6507	9322 129 41685	BZM55-C12
6508	4822 130 11551	UDZS10B

7501	3198 010 42310	BC847BW
7502	3198 010 42310	BC847BW
7515	9351 869 40118	74HC4053PW
7516	9351 869 40118	74HC4053PW

LED/Switch Panel [J] (FTL2.2E Wrap)

Various

0345	2422 025 16961	Connector 6p m SMD
1040	9322 206 81667	TSOP34836YA1
1M01	2422 025 17103	Connector 3p m SMD
1M20	2422 025 17441	Connector 12p m

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2030	4822 124 23002	10µF 16V
2040	4822 124 12095	100µF 20% 16V
2060	5322 124 41945	22µF 20% 35V
2070	4822 126 14583	470nF 10% 16V 0805
2071	4822 124 23002	10µF 16V

⌐WW⌐

3011	4822 117 13545	100Ω 1% 0402
3020	4822 117 13606	10kΩ 5% 0.01W 0402
3030	3198 031 04720	4.7kΩ 5% 0402
3031	4822 117 12889	270kΩ 1% 0.063W 0603
3031	4822 117 13632	100kΩ 1% 0603 0.62W
3032	2322 705 70184	180Ω 5% 0402
3033	4822 051 30102	1kΩ 5% 0.062W
3034	4822 117 13548	1kΩ 5% 0402
3035	3198 031 04720	4.7kΩ 5% 0402
3036	3198 031 02280	2.2Ω 5% 0.1W 0402
3037	3198 031 02280	2.2Ω 5% 0.1W 0402
3040	4822 117 13597	330Ω 5% 0402 0.01W
3041	4822 117 13606	10kΩ 5% 0.01W 0402
3042	3198 031 06820	6.8kΩ 5% 0.01W 0402
3051	4822 117 13597	330Ω 5% 0402 0.01W
3060	4822 117 13606	10kΩ 5% 0.01W 0402
3061	4822 051 30331	330Ω 5% 0.062W
3062	4822 117 11373	100Ω 1% 0805
3063	4822 117 13606	10kΩ 5% 0.01W 0402
3064	4822 117 11373	100Ω 1% 0805
3070	2322 705 70475	4.7MΩ 5% 0402
3071	2322 705 70475	4.7MΩ 5% 0402
3072	4822 117 13548	1kΩ 5% 0402
3073	3198 031 03320	3.3kΩ 5% 0402
3074	4822 117 13606	10kΩ 5% 0.01W 0402
3075	3198 031 04720	4.7kΩ 5% 0402
3076	3198 031 03320	3.3kΩ 5% 0402
3077	3198 031 03320	3.3kΩ 5% 0402
3078	3198 031 03320	3.3kΩ 5% 0402
3079	3198 031 03320	3.3kΩ 5% 0402
3091	4822 117 13606	10kΩ 5% 0.01W 0402
3096	4822 117 13606	10kΩ 5% 0.01W 0402
3999	3198 031 04720	4.7kΩ 5% 0402
9010	4822 117 13605	Jumper 0402
9012	4822 117 13605	Jumper 0402
9013	4822 117 13605	Jumper 0402
9015	4822 117 13605	Jumper 0402
9016	4822 117 13605	Jumper 0402
9017	4822 117 13605	Jumper 0402
9019	4822 117 13605	Jumper 0402
9022	4822 051 30008	Jumper 0603
9024	4822 051 30008	Jumper 0603
9026	4822 117 13605	Jumper 0402
9027	4822 117 13605	Jumper 0402
9040	4822 117 13605	Jumper 0402
9043	4822 117 13605	Jumper 0402

⊳⊢

6030	4822 130 11397	BAS316
6031	4822 130 11397	BAS316
6051	4822 130 11395	TLMH3100
6051	4822 130 83915	TLMV3100
6060	9322 198 19685	SML512BC2T
6060	9322 208 45685	SML512BC4TL
6061	4822 130 11397	BAS316
6070	9322 140 63685	TEMD5000

7030	3198 010 42320	BC857BW
7031	5322 130 62804	BCP53
7032	3198 010 42310	BC847BW
7060	3198 010 42310	BC847BW
7061	3198 010 42310	BC847BW
7070	9322 192 63668	LM358P

Stand-by Supply/Audio Panel [SA] (FTL2.2E Wrap)

Various

1304	2422 025 10647	Connector 4p m
1305	4822 267 10735	Connector 3p
1306	2422 025 16374	Connector 2p m
1307	2422 025 10647	Connector 4p m
1309	2422 025 11143	Connector 3p m
1314	2422 025 10771	Connector 10p m
1315	2422 025 10771	Connector 10p m
1316	2422 025 10772	Connector 12p m
1317	2422 025 10772	Connector 12p m
1318	2422 025 08149	Connector 6p m
1735	4822 267 10918	Connector 3p
1736	2422 025 10768	Connector 3p m
1739	2422 025 10769	Connector 9p m
1M02	2422 025 11244	Connector 7p m
1M03	2422 025 10771	Connector 10p m
1M10	2422 025 09406	Connector 4p m
1M46	2422 025 10655	Connector 11p m

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2101▲	4822 121 51598	2.2nF 5% 400V
2102	4822 124 40207	100µF 20% 25V
2103	2020 552 94427	100pF 5% 50V
2105	2020 552 94427	100pF 5% 50V
2107▲	2020 024 90718	10µF 20% 450V
2108▲	2020 024 90718	10µF 20% 450V
2109	2022 552 05679	1µF 10% 16V 0805
2110	2022 552 05679	1µF 10% 16V 0805
2111	4822 121 43526	47nF 5% 250V
2112	5322 126 11583	10nF 10% 50V 0603
2123	2238 586 59812	100nF 20% 50V 0603
2124	4822 124 40248	10µF 20% 63V
2129	5322 126 11578	1nF 10% 50V 0603
2131	2238 586 15641	22nF 10% 50V 0603
2132	4822 124 40207	100µF 20% 25V
2140	4822 124 40248	10µF 20% 63V
2141	4822 126 14583	470nF 10% 16V 0805
2144	2022 552 05679	1µF 10% 16V 0805
2145	4822 126 13881	470pF 5% 50V
2149	2022 552 05679	1µF 10% 16V 0805
2150	4822 124 12379	220µF 25V
2152	4822 121 70162	10nF 5% 400V
2153	5322 126 11582	6.8nF 10% 63V
2154	3198 017 31530	15nF 20% 50V 0603
2160	4822 124 21913	1µF 20% 63V
2163	4822 124 40207	100µF 20% 25V
2506▲	2252 811 95017	470pF 10% 250V
2507	4822 126 13682	100pF 5% 1kV
2508	4822 124 40764	22µF 100V
2510	2020 021 91668	2200µF 20% 10V
2511	4822 124 12379	220µF 25V
2513▲	4822 126 10206	2.2nF 10% 500V
2515	4822 126 14238	2.2nF 50V 0603
2533	4822 124 40207	100µF 20% 25V
2534	2022 552 05679	1µF 10% 16V 0805
2535	5322 126 11583	10nF 10% 50V 0603
2536	5322 126 11583	10nF 10% 50V 0603
2537	4822 126 14238	2.2nF 50V 0603
2538	5322 126 11583	10nF 10% 50V 0603
2539	2022 552 05679	1µF 10% 16V 0805
2540	5322 126 11583	10nF 10% 50V 0603
2544	5322 126 11583	10nF 10% 50V 0603
2702	5322 126 11578	1nF 10% 50V 0603
2704	5322 126 11578	1nF 10% 50V 0603
2705	2020 552 96684	470nF 10% 25V 0805
2706	2222 580 15649	100nF 10% 50V 0805
2707	4822 126 14585	100nF 10% 0805 50V
2708	2020 552 96326	220nF 10% 16V
2709	4822 126 13881	470pF 5% 50V
2710	4822 126 13881	470pF 5% 50V
2711	5322 126 11578	1nF 10% 50V 0603
2712	2020 552 96683	220nF 10% 50V
2713	2020 552 96684	470nF 10% 25V 0805
2714	3198 017 33330	33nF 20% 16V 0603
2715	5322 126 11578	1nF 10% 50V 0603
2716	4822 126 14241	330pF 0603 50V
2717	5322 121 42498	680nF 5% 63V
2718	4822 122 33761	22pF 5% 50V
2719	5322 126 11578	1nF 10% 50V 0603
2720	2020 552 96326	220nF 10% 16V
2721	4822 126 13881	470pF 5% 50V
2722	4822 126 13881	470pF 5% 50V
2725	2020 552 94427	100pF 5% 50V
2726	3198 017 33330	33nF 20% 16V 0603
2727	5322 126 11578	1nF 10% 50V 0603
2728	4822 126 14241	330pF 0603 50V
2729	5322 121 42498	680nF 5% 63V
2764	4822 126 14491	2.2µF 10V 0805
2766	4822 126 14491	2.2µF 10V 0805
2768	4822 124 40255	100µF 20% 63V
2769	4822 124 40255	100µF 20% 63V
2777	2020 552 96683	220nF 10% 50V
2778	4822 124 40769	4.7µF 20% 100V
2779	2020 552 96683	220nF 10% 50V
2780	2020 552 96683	220nF 10% 50V
2781	2020 552 96683	220nF 10% 50V
2783	4822 124 41751	47µF 20% 50V
2786	2238 586 15641	22nF 10% 50V 0603
2788	4822 124 40255	100µF 20% 63V
2789	2020 552 96683	220nF 10% 50V
2790	4822 124 40255	100µF 20% 63V

⌐WW⌐

3100	4822 051 30101	100Ω 5% 0.062W
3101	4822 053 20475	4.7MΩ 5% 0.25W
3102	2312 915 11002	1kΩ 1% 0.5W
3103	2312 915 11002	1kΩ 1% 0.5W
3104	4822 051 30479	47Ω 5% 0.062W
3105	4822 051 30221	220Ω 5% 0.062W
3106	4822 051 30391	390Ω 5% 0.062W
3107	4822 051 30391	390Ω 5% 0.062W
3108	4822 053 10478	4.7Ω 5% 1W
3109	4822 051 30391	390Ω 5% 0.062W
3110	4822 051 30391	390Ω 5% 0.062W
3111▲	4822 053 10152	1.5kΩ 5% 1W
3112	4822 051 30391	390Ω 5% 0.062W
3113	9965 000 23109	22Ω 5% 0603
3114	4822 051 30221	220Ω 5% 0.062W
3117	4822 051 30479	47Ω 5% 0.062W
3122	4822 051 30471	470Ω 5% 0.062W
3123	4822 051 30109	10Ω 5% 0.062W
3124	4822 051 30339	33Ω 5% 0.062W
3125	4822 117 12971	15Ω 5% 0603 0.62W
3126	4822 051 30103	10kΩ 5% 0.062W
3127	4822 051 30562	5.6kΩ 5% 0.063W 0603
3128	4822 117 13608	4.7Ω 5% 0603 0.62W
3132	4822 051 30333	33kΩ 5% 0.062W
3134	4822 051 30102	1kΩ 5% 0.062W
3135	4822 051 30331	330Ω 5% 0.062W
3138	4822 051 30105	1MΩ 5% 0.062W
3140	4822 051 30223	22kΩ 5% 0.062W
3141	4822 051 30471	470Ω 5% 0.062W
3142	4822 051 30123	12kΩ 5% 0.1W
3145	4822 051 30472	4.7Ω 5% 0.062W
3146	4822 051 30479	47Ω 5% 0.062W
3147	4822 051 30223	22kΩ 5% 0.062W
3148	4822 051 30479	47Ω 5% 0.062W
3149	4822 051 30103	10kΩ 5% 0.062W
3150	4822 051 30101	100Ω 5% 0.062W
3152	4822 051 30102	1kΩ 5% 0.062W
3153	4822 051 30223	22kΩ 5% 0.062W
3155	4822 050 21003	10kΩ 1% 0.6W
3156	4822 051 30102	1kΩ 5% 0.062W
3157	4822 051 30223	22kΩ 5% 0.062W
3158	4822 051 30479	47Ω 5% 0.062W
3159	4822 051 30479	47Ω 5% 0.062W
3160	4822 051 30102	1kΩ 5% 0.062W
3161	4822 051 30123	12kΩ 5% 0.1W
3171	4822 051 30101	100Ω 5% 0.062W
3172	4822 051 30333	33kΩ 5% 0.062W
3175	4822 051 30103	10kΩ 5% 0.062W
3176	4822 051 30103	10kΩ 5% 0.062W
3509	4822 053 10222	2.2kΩ 5% 1W
3511	4822 051 30683	68kΩ 5% 0.062W
3512	4822 051 30471	470Ω 5% 0.062W
3513	4822 051 30333	33kΩ 5% 0.062W
3515	4822 117 13632	100kΩ 1% 0603 0.62W
3516	4822 051 30472	4.7Ω 5% 0.062W
3517	4822 051 30223	22kΩ 5% 0.062W
3528	4822 051 30472	4.7Ω 5% 0.062W
3529	4822 051 30101	100Ω 5% 0.062W
3530	4822 051 30223	22kΩ 5% 0.062W
3531	4822 051 30153	15kΩ 5% 0.062W
3532	4822 051 30472	4.7Ω 5% 0.062W
3533	4822 051 30152	1.5Ω 5% 0.062W
3534	4822 051 30103	10kΩ 5% 0.062W
3538	4822 051 30101	100Ω 5% 0.062W
3539	4822 051 30471	470Ω 5% 0.062W
3540	4822 051 30222	2.2kΩ 5% 0.062W
3541	4822 051 30222	2.2kΩ 5% 0.062W
3542	4822 051 30103	10kΩ 5% 0.062W
3544	4822 051 30221	220Ω 5% 0.062W
3560	4822 051 30682	6.8Ω 5% 0.062W
3561	4822 051 30392	3.9Ω 5% 0.063W 0603
3562	4822 117 13608	4.7Ω 5% 0603 0.62W
3701	4822 051 30103	10kΩ 5% 0.062W
3702	4822 051 30682	6.8Ω 5% 0.062W
3703	4822 051 30333	33kΩ 5% 0.062W
3704	4822 117 10833	10kΩ 1% 0.1W
3705	4822 051 20828	8.2Ω 5% 0.1W
3706	4822 051 30472	4.7Ω 5% 0.062W
3707	4822 051 30683	68kΩ 5% 0.062W
3708	4822 051 30563	56kΩ 5% 0.062W
3709	4822 117 11503	220Ω 1% 0.1W
3710	4822 051 30223	22kΩ 5% 0.062W
3711	4822 050 21204	120kΩ 1% 0.6W
3712	4822 051 30103	10kΩ 5% 0.062W
3713	2312 915 11202	1.2kΩ 1% 0.5W
3714	4822 117 12925	47kΩ 1% 0.063W 0603
3715	4822 117 12925	47kΩ 1% 0.063W 0603
3716	4822 117 12925	47kΩ 1% 0.063W 0603
3717	4822 117 13632	100kΩ 1% 0603 0.62W

3718	4822 117 13632	100kΩ 1% 0603 0.62W
3721	4822 051 30472	4.7Ω 5% 0.062W
3722	4822 051 30683	68kΩ 5% 0.062W
3723	4822 051 30563	56kΩ 5% 0.062W
3724	4822 117 11503	220Ω 1% 0.1W
3725	4822 051 30223	22kΩ 5% 0.062W
3726	4822 117 11503	220Ω 1% 0.1W
3727	4822 117 11503	220Ω 1% 0.1W
3743	4822 117 11449	2.2kΩ 5% 0.1W 0805
3746	4822 051 30223	22kΩ 5% 0.062W
3747	4822 050 24703	47kΩ 1% 0.6W
3748	4822 051 30471	47Ω 5% 0.062W
3750	4822 117 11449	2.2kΩ 5% 0.1W 0805
3756	4822 117 11449	2.2kΩ 5% 0.1W 0805
3757	4822 117 11449	2.2kΩ 5% 0.1W 0805
3759	4822 051 30332	3.3Ω 5% 0.062W
3760	4822 051 30332	3.3Ω 5% 0.062W
3761	4822 051 20109	10Ω 5% 0.1W
3762	4822 051 30222	2.2kΩ 5% 0.062W
3763	4822 051 30222	2.2kΩ 5% 0.062W
3764	4822 051 20109	10Ω 5% 0.1W
3765	4822 051 30103	10kΩ 5% 0.062W
3766	4822 117 13632	100kΩ 1% 0603 0.62W
3767	4822 117 13632	100kΩ 1% 0603 0.62W
3768	4822 117 13632	100kΩ 1% 0603 0.62W
3790	4822 051 30272	2.7kΩ 5% 0.062W
3791	4822 051 30272	2.7kΩ 5% 0.062W
3792	4822 051 30183	18kΩ 5% 0.062W
3793	4822 051 30183	18kΩ 5% 0.062W
3798	4822 051 30153	15kΩ 5% 0.062W
3999	4822 051 30222	2.2kΩ 5% 0.062W
9008	4822 051 30008	Jumper 0603
9020	4822 051 30008	Jumper 0603
9110	4822 051 30008	Jumper 0603
9717	4822 051 30008	Jumper 0603
9737	4822 051 30008	Jumper 0603

5102	4822 526 10704	Bead 50 Ω at 100MHz
5103	4822 526 10704	Bead 50 Ω at 100MHz
5104	4822 157 11411	Bead 80Ω at 100MHz
5105	4822 157 11716	Bead 30Ω at 100MHz
5106	3198 018 31090	10µH 10% 0805
5108	4822 526 10704	Bead 50 Ω at 100MHz
5110	4822 157 71736	10µH 5%
5500	3104 308 21181	Transf. BS25320-00
5504	2422 536 00776	33µH 10%
5505	4822 157 11411	Bead 80Ω at 100MHz
5506	4822 157 11411	Bead 80Ω at 100MHz
5507	2422 536 00433	15µH 10%
5701	2422 536 00385	68µH 10%
5702	2422 536 00385	68µH 10%
5703	4822 157 11716	Bead 30Ω at 100MHz
5705	4822 157 11716	Bead 30Ω at 100MHz
5707	4822 157 11411	Bead 80Ω at 100MHz
5708	4822 157 11411	Bead 80Ω at 100MHz
5711	4822 157 11411	Bead 80Ω at 100MHz
5712	4822 157 11411	Bead 80Ω at 100MHz
5730	2422 549 00112	Line filt. 50V 3A
5731	2422 549 00112	Line filt. 50V 3A

6103	4822 130 10871	SBYV27-200
6104	9340 548 69115	PDZ27B
6105	4822 130 11522	UDZ15B
6106	9340 548 66115	PDZ20B
6108	4822 130 80622	BAT54
6114	4822 130 10871	SBYV27-200
6115	4822 130 80622	BAT54
6116	3198 020 55680	BZX384-C5V6
6120	4822 130 11397	BAS316
6121	4822 130 11397	BAS316
6122	9322 129 34685	BZM55-C3V9
6130	9322 129 41685	BZM55-C12
6132	4822 130 11416	PDZ6.8B
6133	4822 130 11397	BAS316
6134	4822 130 11397	BAS316
6140	4822 130 41487	BYV95C
6142	4822 130 80622	BAT54
6144	4822 130 11397	BAS316
6147	9322 200 23685	SML4736
6148	4822 130 11397	BAS316
6149	3198 020 55680	BZX384-C5V6
6150	9340 292 50135	BZG03-C200
6151	9340 548 71115	PDZ33B
6153	9340 292 50135	BZG03-C200
6156	4822 130 11397	BAS316
6504	9340 418 70133	BYV27-600
6505	9322 161 78682	SB360L-7024
6511	9322 129 41685	BZM55-C12
6531	4822 130 11522	UDZ15B
6532	4822 130 11397	BAS316
6540	4822 130 80622	BAT54
6562	9340 548 67115	PDZ22B
6701	4822 130 11397	BAS316
6702	4822 130 11551	UDZS10B
6703	4822 130 11551	UDZS10B

7100	3198 010 42320	BC857BW
7101	9340 219 30115	BC817-25W
7102▲	9322 160 34687	FQPF3N60
7105	3198 010 42320	BC857BW
7131▲	9340 557 69127	PHX9NQ20T
7140	3198 010 42310	BC847BW
7150▲	9322 149 04682	TCET1102
7501▲	9322 149 04682	TCET1102
7505	3198 010 42320	BC857BW
7506	3198 010 42310	BC847BW
7507	3198 010 42310	BC847BW
7509	3198 010 42310	BC847BW
7511	9337 331 10215	BST82
7512	9340 422 80115	PMSTA42
7531▲	9340 436 50115	BSP030
7532	3198 010 42310	BC847BW
7560	9340 219 30115	BC817-25W
7700	9322 163 86682	TDA7490L
7701	3198 010 42310	BC847BW
7701	5322 130 60159	BC846B
7703	3198 010 42310	BC847BW
7703	5322 130 60159	BC846B
7704	3198 010 42310	BC847BW
7704	5322 130 60159	BC846B
7705	3198 010 42310	BC847BW
7705	5322 130 60159	BC846B
7706	3198 010 42320	BC857BW
7706	4822 130 60373	BC856B
7707	3198 010 42310	BC847BW
7707	5322 130 60159	BC846B
7708	3198 010 42310	BC847BW
7708	5322 130 60159	BC846B
7709	3198 010 42310	BC847BW
7709	5322 130 60159	BC846B
7710	3198 010 42310	BC847BW
7710	5322 130 60159	BC846B
7711	3198 010 42310	BC847BW
7711	5322 130 60159	BC846B

11. Revision List

Manual xxxx xxx xxxx.0

- First release, with only the FTL2.1E chassis covered.

Manual xxxx xxx xxxx.1

- Combination of the FTL2.1E and FTL2.2E manuals.
- All chapters: small textual and graphical improvements.
- Ch. 2: Lead-free text updated.
- Ch. 8: Model specific option codes and Option Bit explanation table added.
- Ch. 10: Parts lists available for both chassis.