

Service Service Service

FTL2.1E & FTL2.2E

AA

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301204

Service Manual

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PHILIPS

1. Technical Specifications, Connections, and Chassis Overview

Index of this chapter:

- 1.1 Technical Specifications
- 1.2 Connections
- 1.3 Chassis Overview

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

1.1 Technical Specifications

1.1.1 Vision

Display type	: 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)
	: XWGA (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

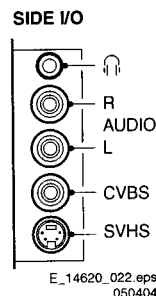


Figure 1-1 Side I/O connections

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} / 75 ohm



1.2.2 Rear Connections

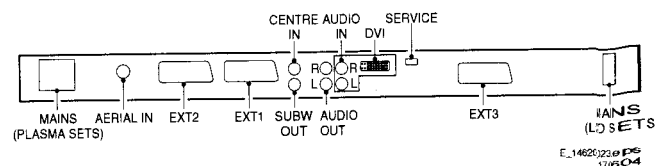
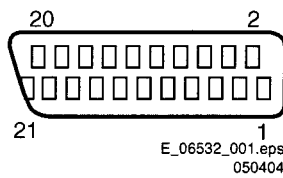


Figure 1-2 Rear connections

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

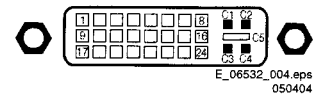
Bu	- Centre	0.5 V _{RMS} / 10 kohm	⊕
Bk	- Sub woofer	0.5 V _{RMS} / 10 kohm	⊕

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 ² C Data (0 - 5 V)	⊕
2	- SCL-S	I ² C 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

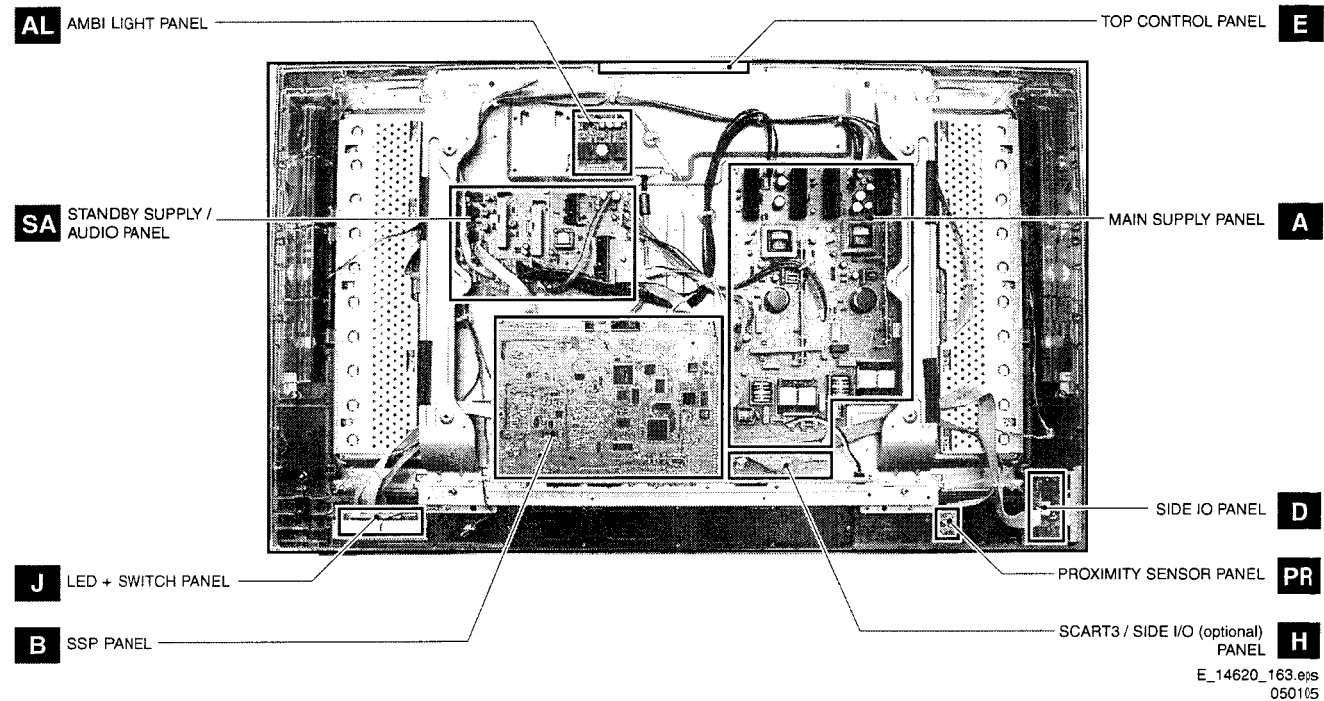


Figure 1-5 PWB locations (FTL2.1 "Top" model)

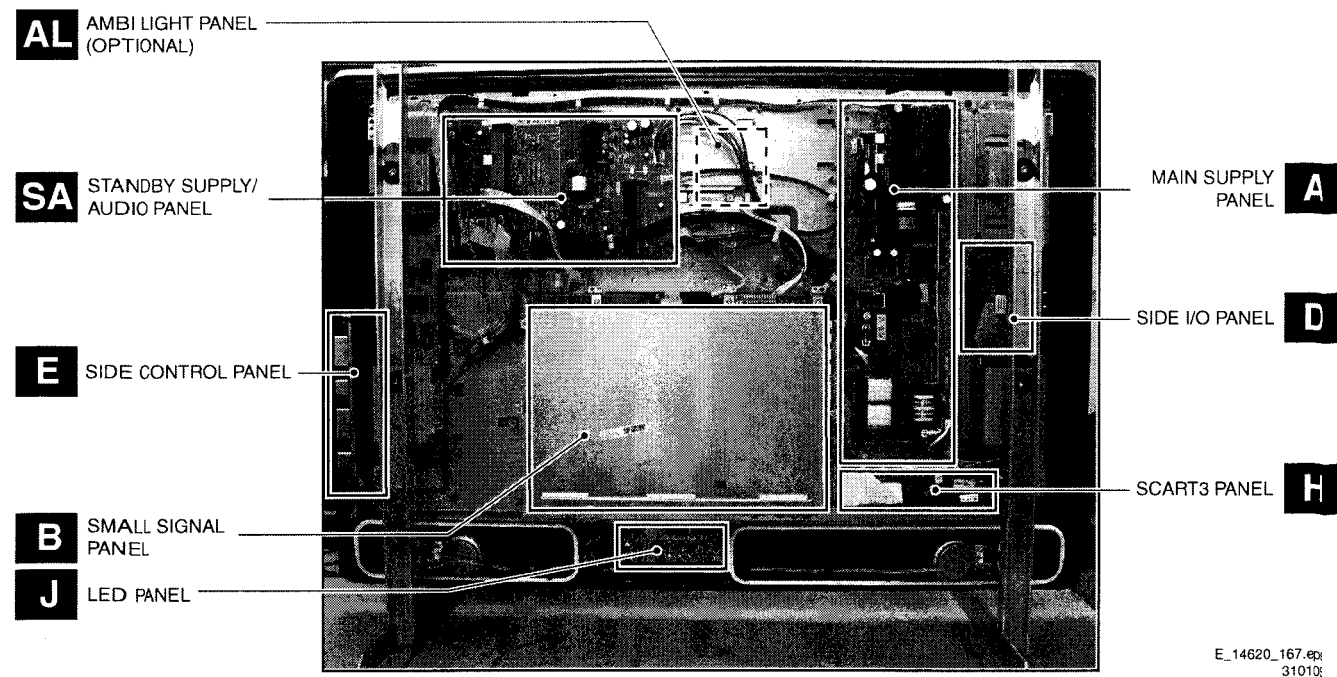


Figure 1-6 PWB locations (FTL2.2 "Wrap" model)

2. Safety Instructions, Warnings, and Notes

Index of this chapter:

- 2.1 Safety Instructions
- 2.2 Warnings
- 2.3 Notes

2.1 Safety Instructions

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

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

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

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

2.2 Warnings

- All ICs and many other semiconductors are susceptible to electrostatic discharges (ESD ). Careless handling during repair can reduce life drastically. Make sure that, during repair, you are connected with the same potential as the mass of the set by a wristband with resistance. Keep components and tools also at this same potential. Available ESD protection equipment:
 - Complete kit ESD3 (small tablemat, wristband, connection box, extension cable and earth cable) 4822 310 10671.
 - Wristband tester 4822 344 13999.
- Be careful during measurements in the high voltage section.
- Never replace modules or other components while the unit is switched "on".
- When you align the set, use plastic rather than metal tools. This will prevent any short circuits and the danger of a circuit becoming unstable.

2.3 Notes

2.3.1 General

- Measure the voltages and waveforms with regard to the chassis (= tuner) ground ($\perp$), or hot ground ($\rightarrow$), 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 ($\mu = \times 10^{-6}$), nano-farads ($n = \times 10^{-9}$), or pico-farads ($p = \times 10^{-12}$).
- Capacitor values may also use the value multiplier as the decimal point indication (e.g. 2p2 indicates 2.2 pF).
- An "asterisk" (*) indicates component usage varies. Refer to the diversity tables for the correct values.
- The correct component values are listed in the 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.

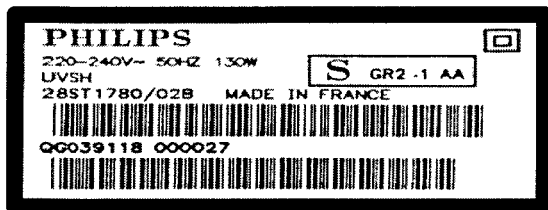
More Information

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.

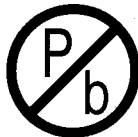


Figure 2-2 Lead-free logo

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:

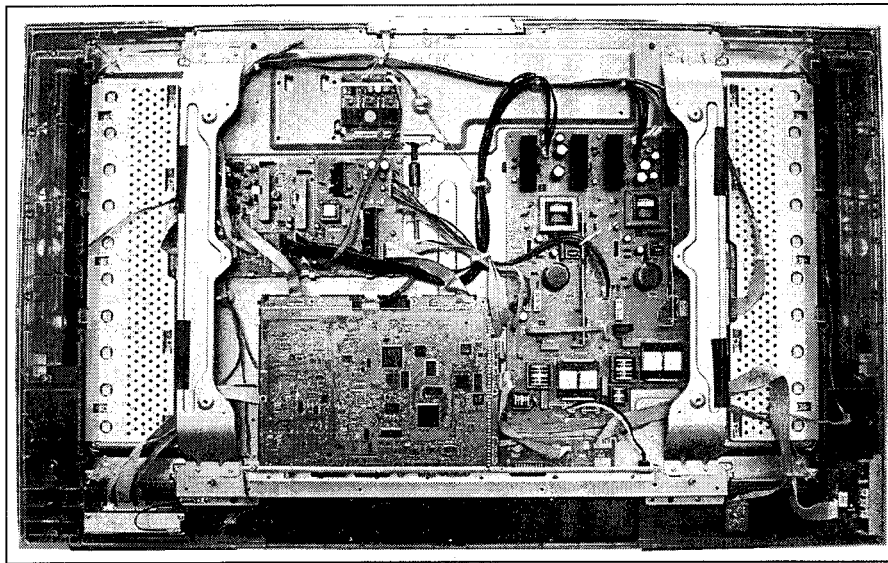
- 4.1 Cable Dressing
- 4.2 Service Positions
- 4.3 Assy/PWB Removal (for FTL2.1 "Top" sets)
- 4.4 Assy/PWB Removal (for FTL2.2 "Wrap" Sets)
- 4.5 Set Re-assembly

Notes:

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

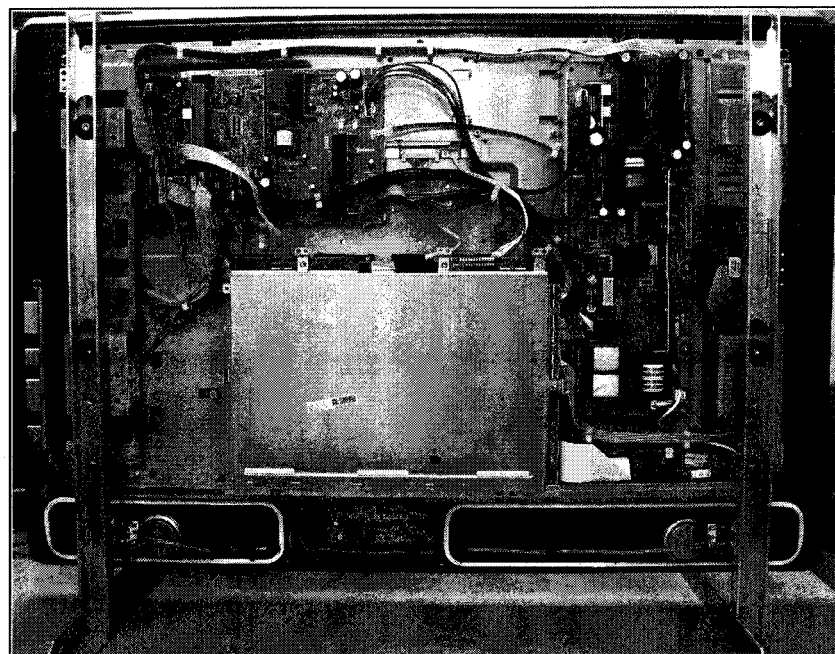
4.1 Cable Dressing

4.1.1 Chassis



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



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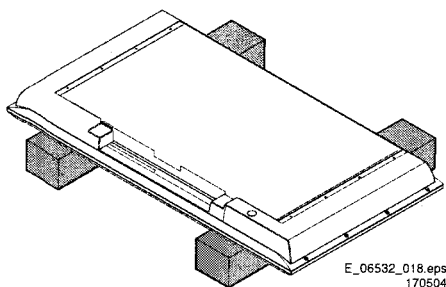
Figure 4-2 Chassis cable dressing (FTL2.2 "Wrap" model)

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

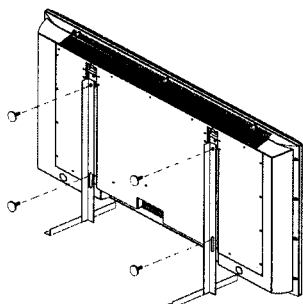


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170504

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



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Figure 4-4 Aluminium stands (Mkl)

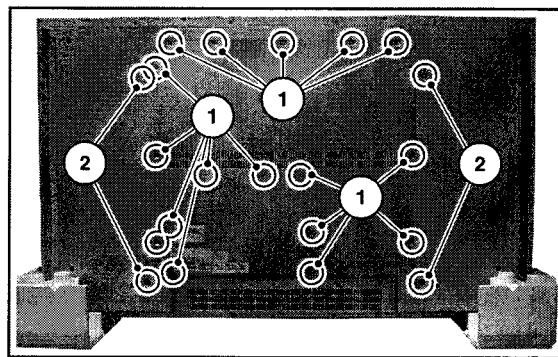
The new Mkl aluminium stands (not on drawing) with order code 3122 785 90690, can also be used to do measurements, alignments, and duration tests. The stands can be (dis)mounted quick and easy by means of sliding them in/out the "mushrooms". The new stands are backwards compatible with the earlier models.

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.

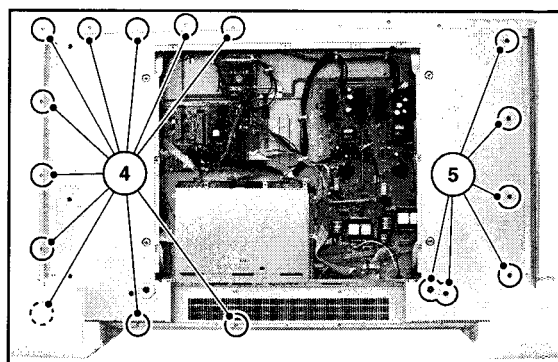


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280704

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



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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).

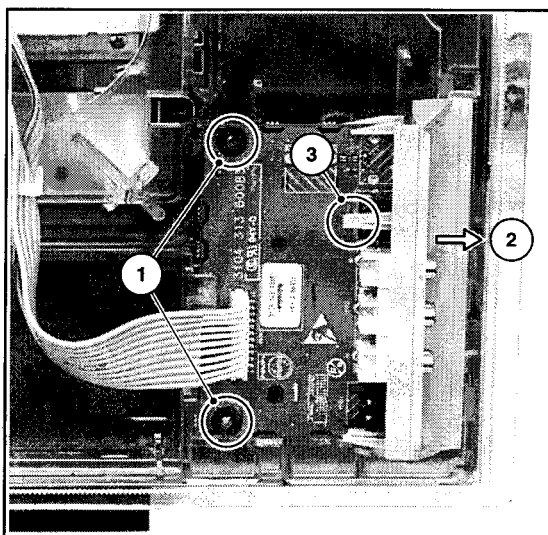
4.3.5 SCART3 Panel

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

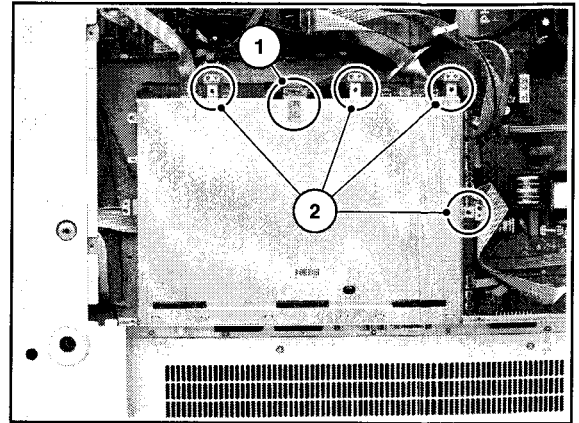
1. Remove the mounting screws.
2. Take out the Proximity panel and disconnect the cable.

4.3.10 LED / Switch Panel

1. Disconnect all cables from the LED / Switch panel.

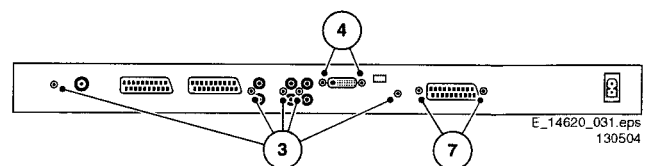
2. Remove the mounting screws from the panel shielding and remove it.
3. Remove the mounting screws from the LED/Switch panel.
4. Take out the LED/Switch panel.

4.3.11 Small Signal Board (SSB)



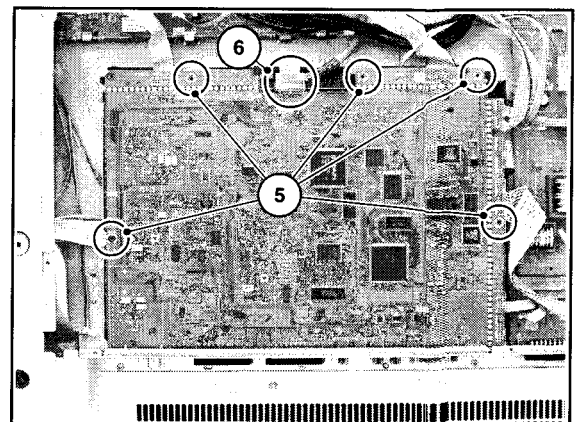
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Figure 4-8 SSB top shielding



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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

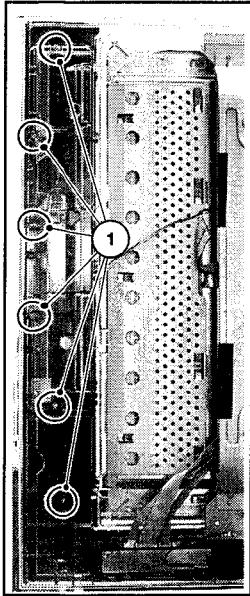
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Figure 4-11 Speaker mounting screws at the rear side

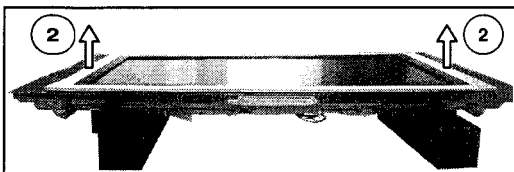
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Figure 4-12 Front cover removal

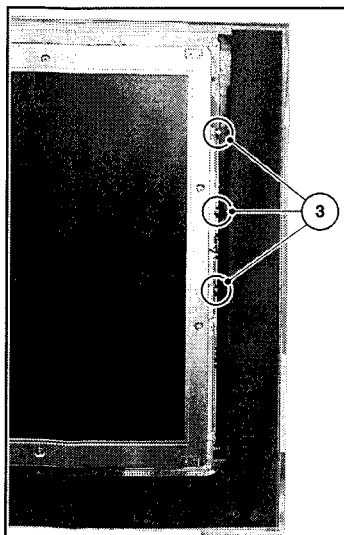
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Figure 4-13 Speaker mounting screws at the front side

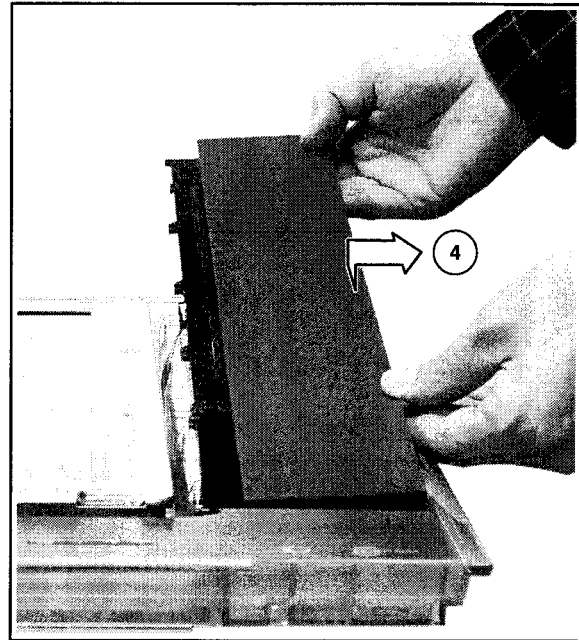
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Figure 4-14 Speaker removal

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 remove 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

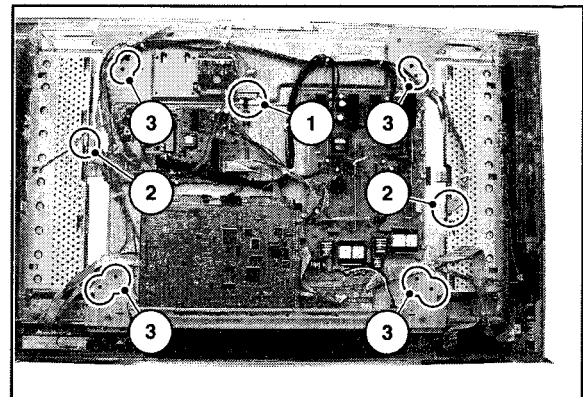
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Figure 4-15 LCD panel (photo: "Top" model)

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 PWs from the LCD panel.

4.3.15 Ambient Lights

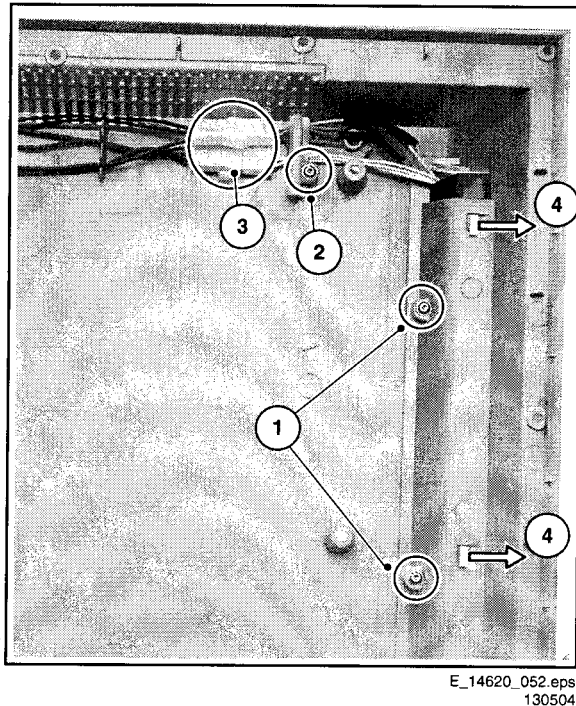


Figure 4-16 Ambient light

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.

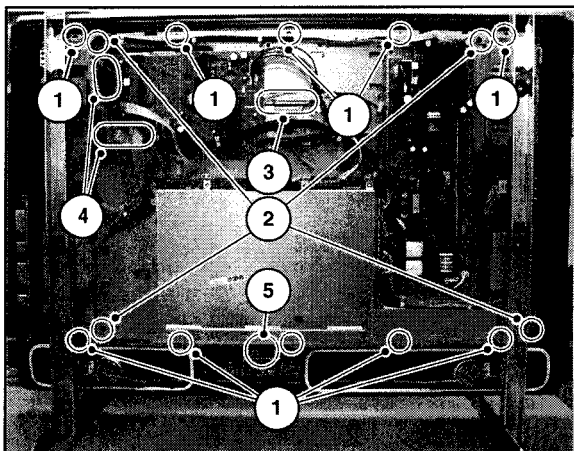
4.4.10 Speakers

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
- 5.2 Service Modes
- 5.3 Problems and Solving Tips (related to CSM)
- 5.4 ComPair
- 5.5 Error Codes
- 5.6 The Blinking LED Procedure
- 5.7 Protections
- 5.8 Repair tips
- 5.9 Software Downloading

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

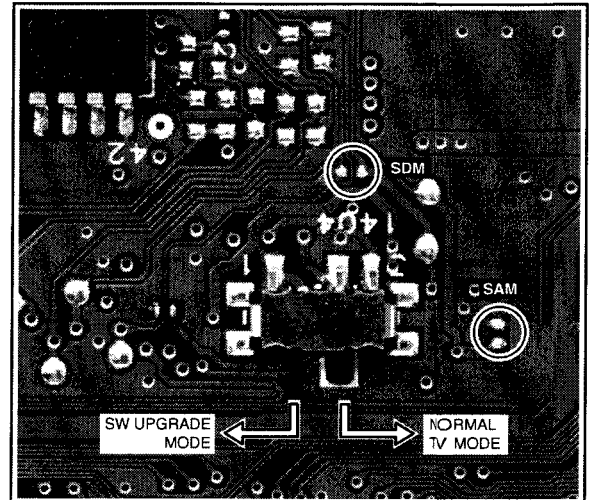
- All picture settings at 50% (brightness, colour, contrast).
- All sound settings at 50%, except volume at 25%.
- All service-unfriendly modes (if present) are disabled, like:
 - (Sleep) timer.
 - Child/parental lock.
 - Blue mute.
 - Automatic volume limiter (AVL).
 - Auto switch-off (when no video 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 ComPar.
- Use the "DEFAULT" button on the DealerService 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:

Presetnr:	--	UTC:	--:--:--
Presetname:	-----	LTO:	--:--:--
		Time:	--:--:--
		Date:	--/--/----
CNI NVM:	----		
CNI F1:	----	Time TXT:	--:--:--
CNI F2:	----	Time 8/30 F1:	--:--:--
CNI VPS:	----	Date 8/30 F1:	--/--/----
Morning Prog:	---	LTO 8/30 F1:	--:--:--
Name 8/30 F1:	-----		
Name 8/30 F2:	-----	WSS G1:	----
Name TXT:	-----	WSS G2:	----
Signal Strength:	---	WSS G3:	----
EPG Service:	---	WSS G4:	----

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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. Use 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 then ask the customer to activate the CSM, in order to identify the status of the set. Now, the service technician can judge the severity of the complaint. In many cases, he can advise the customer how to solve the problem, or he can decide if it is necessary to visit the customer.

The CSM is a read only mode; therefore, modifications in this mode are not possible.

How to activate CSM

Use one of the following methods:

- Press the "MUTE" button on the RC-transmitter **simultaneously** with 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 tune 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 LfRt”, “DD 2/0 LOR0”, “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 LfRt”, “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 I²C level) and is therefore capable of accurately indicating problem areas. You do not have to know anything about I²C commands yourself because ComPair takes care of this.
- ComPair speeds up the repair time since it can automatically communicate with the chassis (when the microprocessor is working) and all repair information is directly available. When ComPair is installed together with the SearchMan electronic manual of the defective chassis, schematics and PWBs are only a mouse click away.

5.4.2 Specifications

ComPair consists of a Windows based 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 I²C level. ComPair can access the I²C bus of the television. ComPair can send and receive I²C commands to the micro controller of the television. In this way, it is possible for ComPair to communicate (read and write) to devices on the I²C 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 extent. 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 17 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.

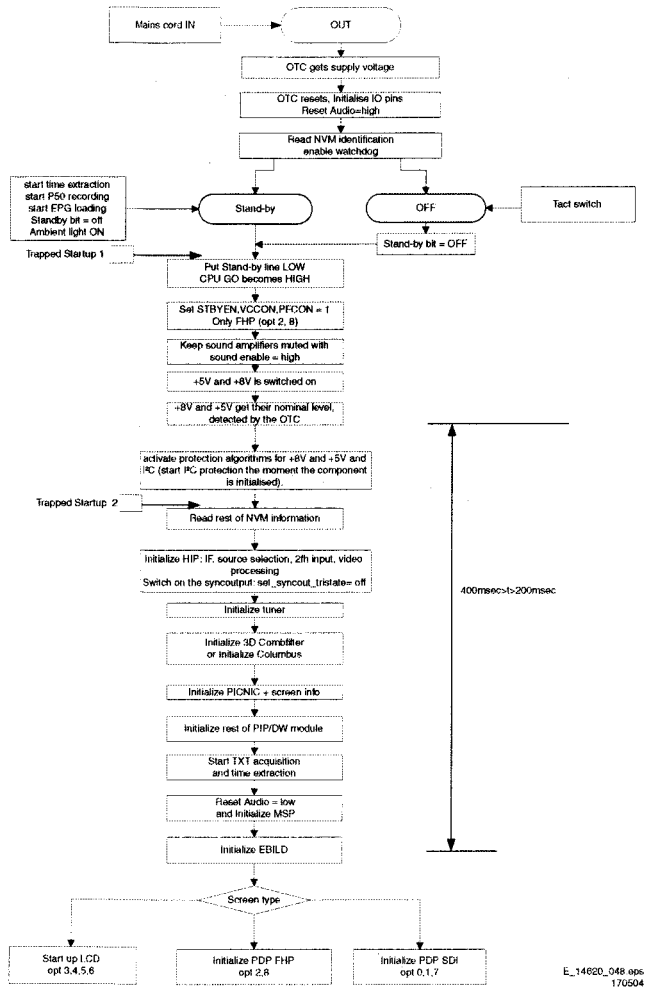


Figure 5-3 Stepwise start-up part 1

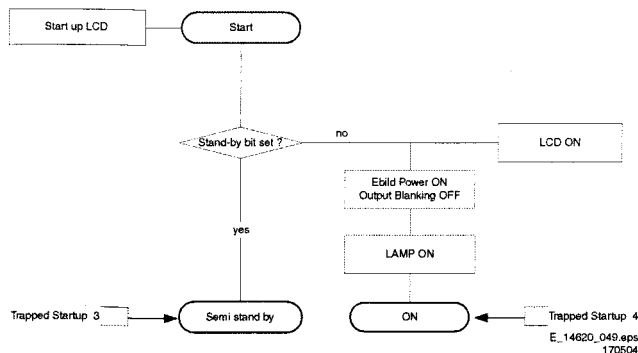


Figure 5-4 Stepwise start-up part 2

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.

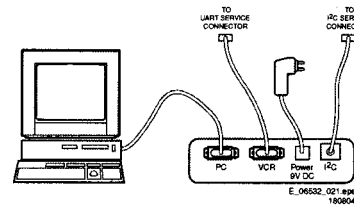


Figure 5-5 ComPair interface connection

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: No errors detected
- 6 0 0 0: Error code 6 is the last and only detected error
- 9 6 0 0: Error code 6 was first detected and error code 9 is the last detected error

- Via the blinking LED procedure (when you have no picture). See next paragraph.
- Via ComPair.

5.5.3 How to clear the Error Buffer

Use one of the following methods:

- By activation of the "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:

- I²C device errors.
- I²C bus errors.
- Protection errors.
- Errors not related to an I²C 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 ² C bus blocked	Spontaneous blinking error 6	/	Slow I ² C 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 ² C bus blocked	Spontaneous blinking error 18	/	Fast I ² C 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	7117	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.

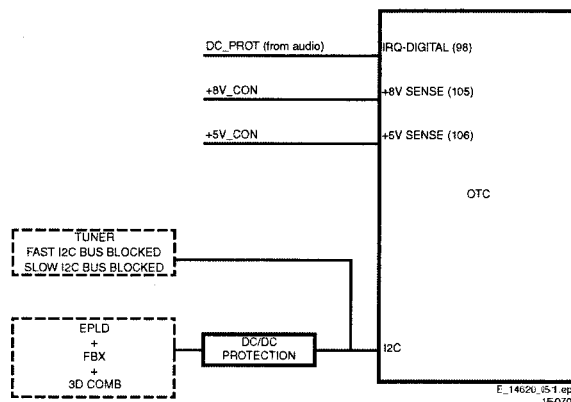


Figure 5-6 Protection diagram

There are several types of protections:

- I²C related protections.
- OTC related protections (via polling on I/O pins or via algorithms).
- Hardware protection

All protections are explained below.

5.7.2 I²C Related Protections

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

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

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 I²C (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 (I²C protection). Error code 55 is logged.

For further diagnoses, you need to overrule the I²C 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 I²C "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

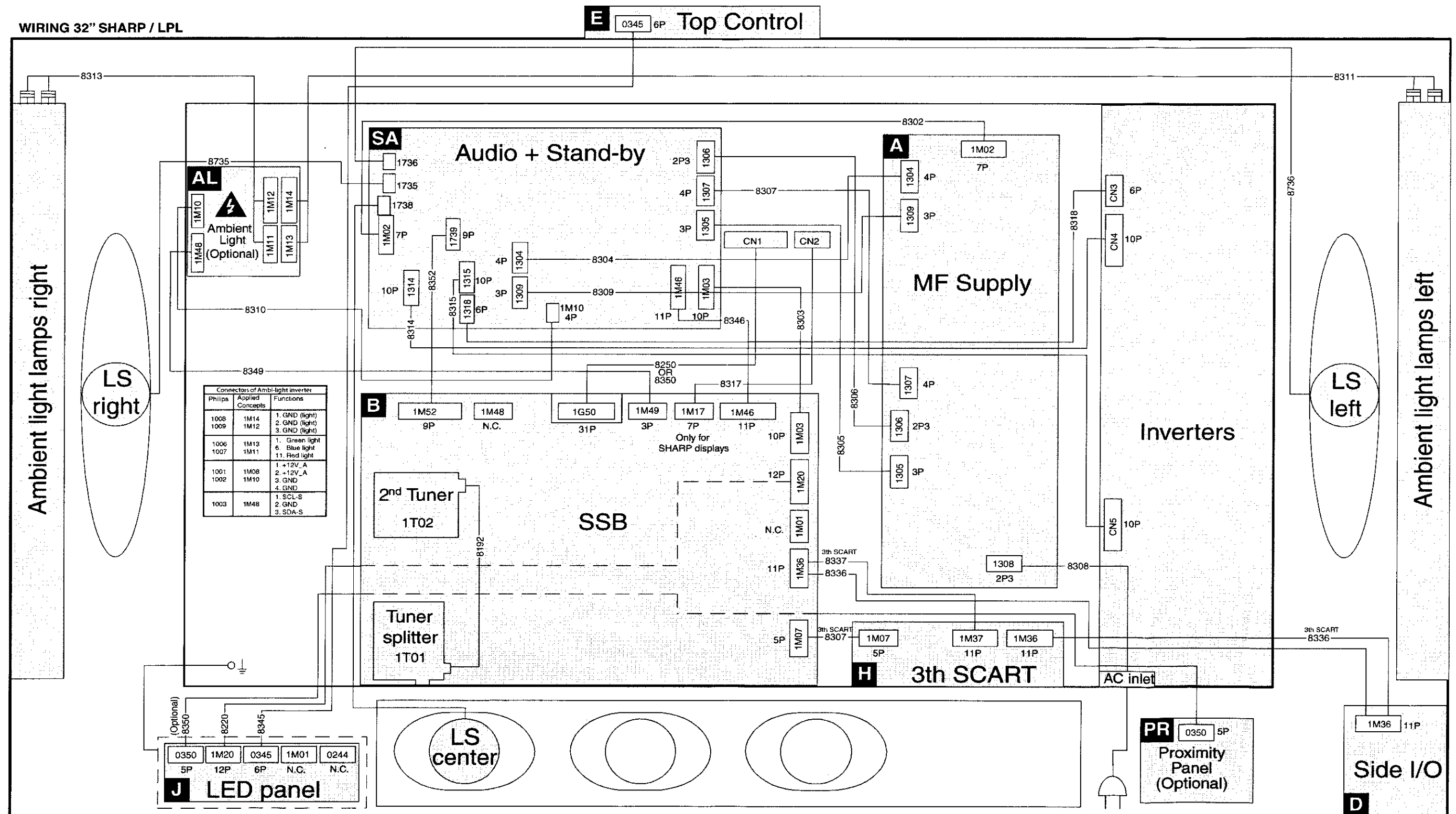
Table 5-4 Repair tips

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 ² C-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 ² C- or fast I ² C-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 ² C-bus which device is loading the bus. (Use I ² C-overview)
No picture, LED blinking with code 1-1-1.	No communication on NVM-I ² C bus to the uP.	As the uP cannot communicate with the NVM I ² C 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 ² C-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.

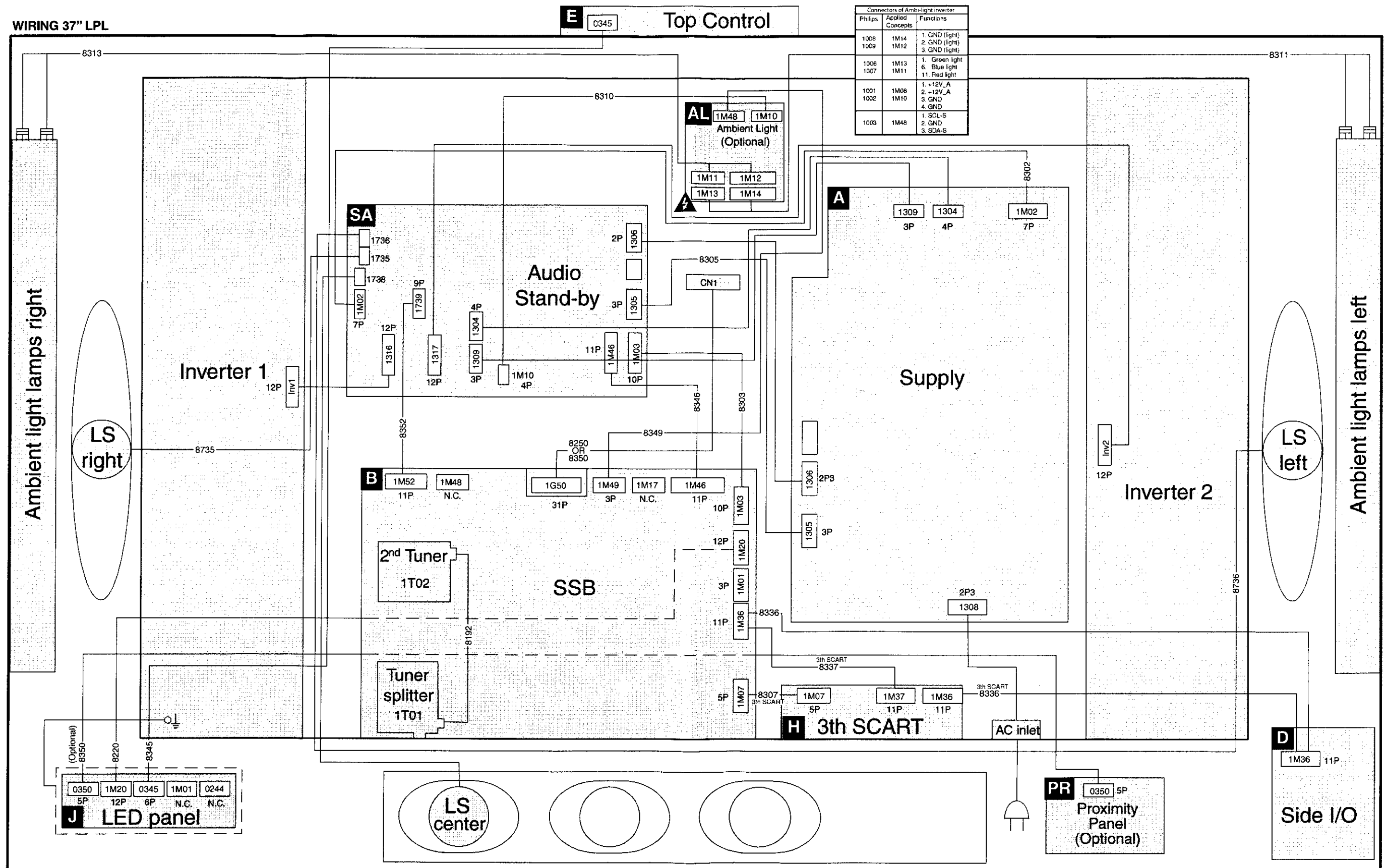
5.9 Software Downloading

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.

Wiring Diagram 32" Sharp/LPL LCD

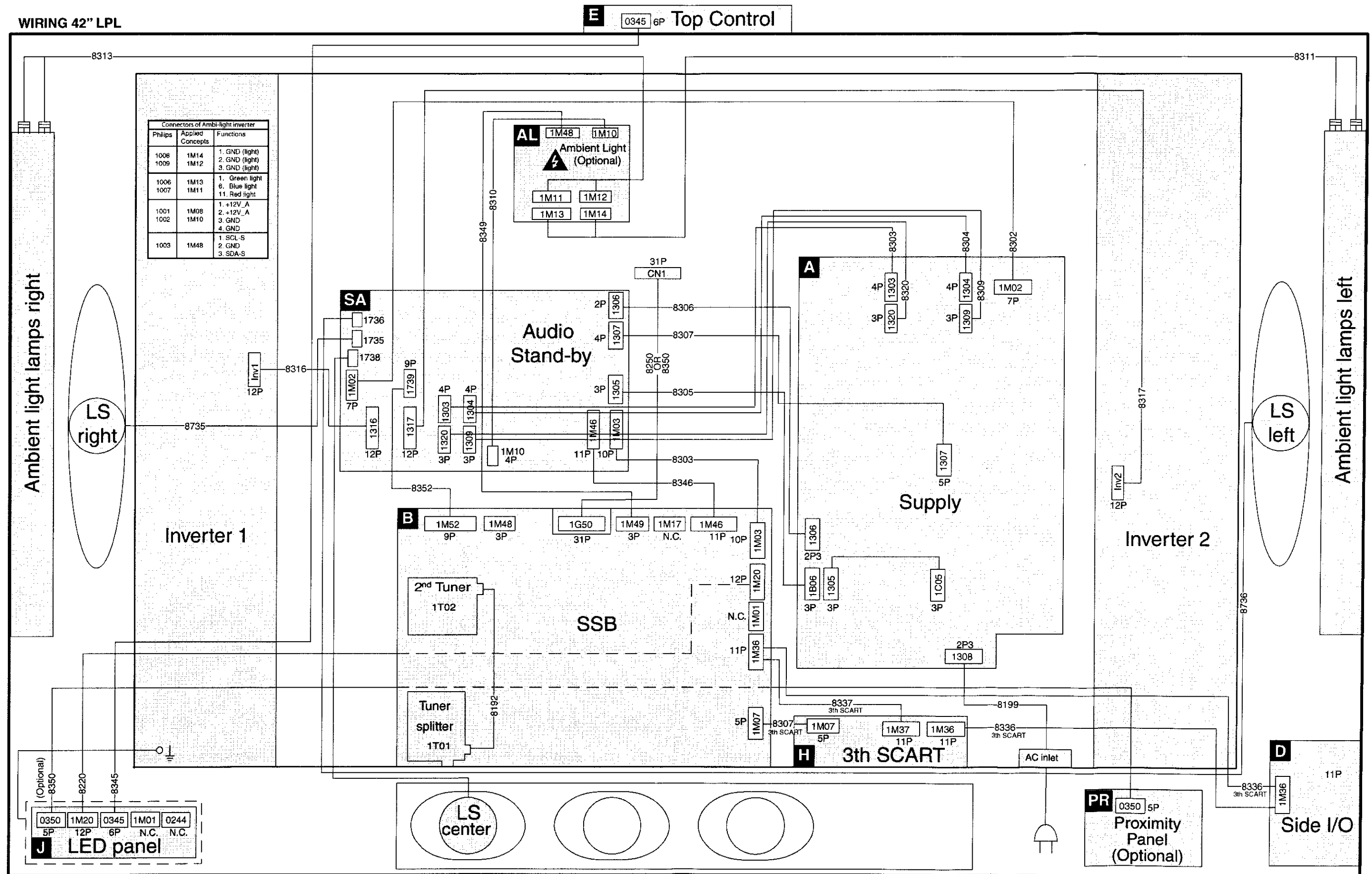


Wiring Diagram 37" LPL LCD

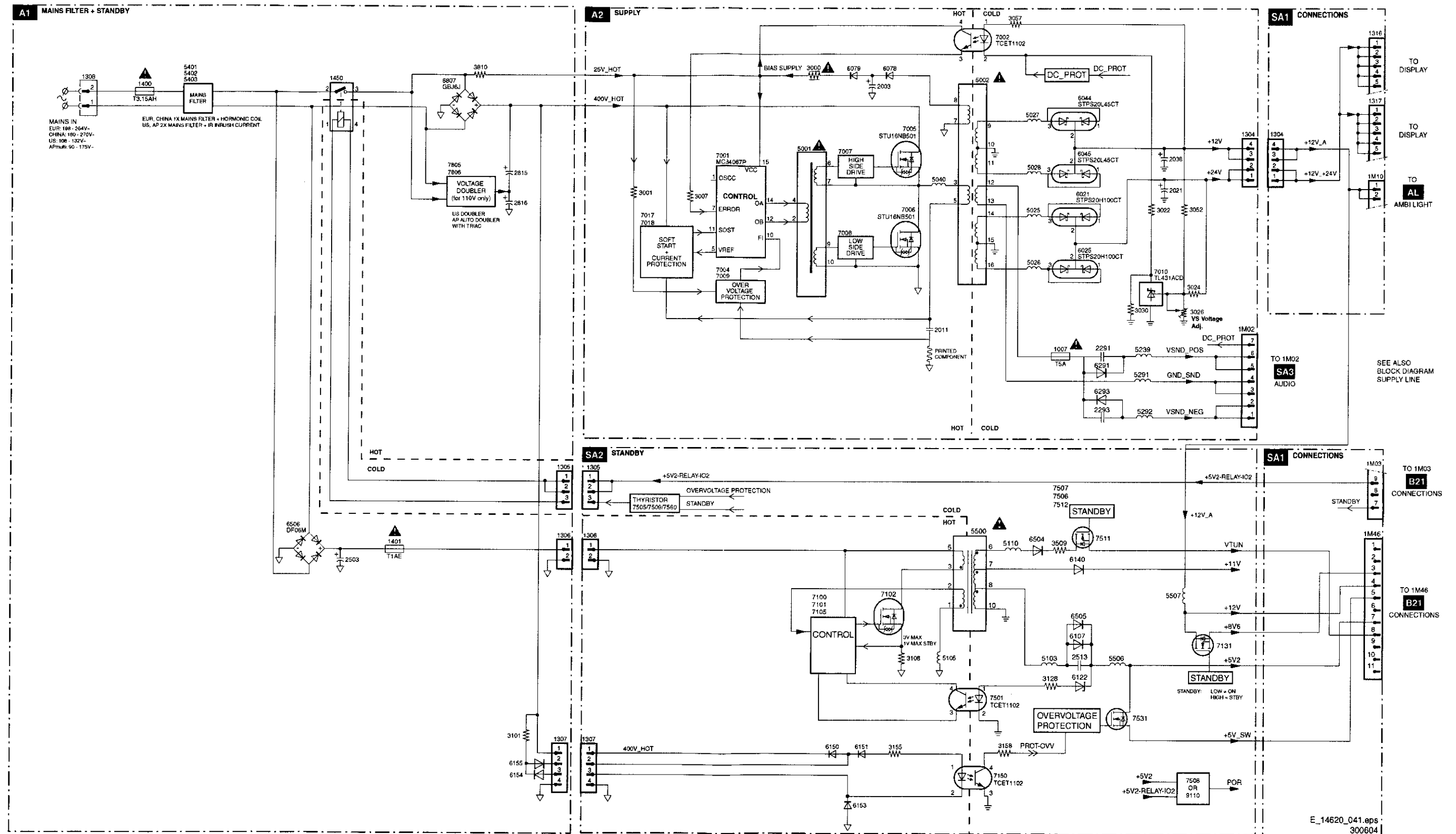


Wiring Diagram 42" LPL LCD

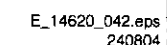
WIRING 42" LPL



SUPPLY + STANDBY 32"

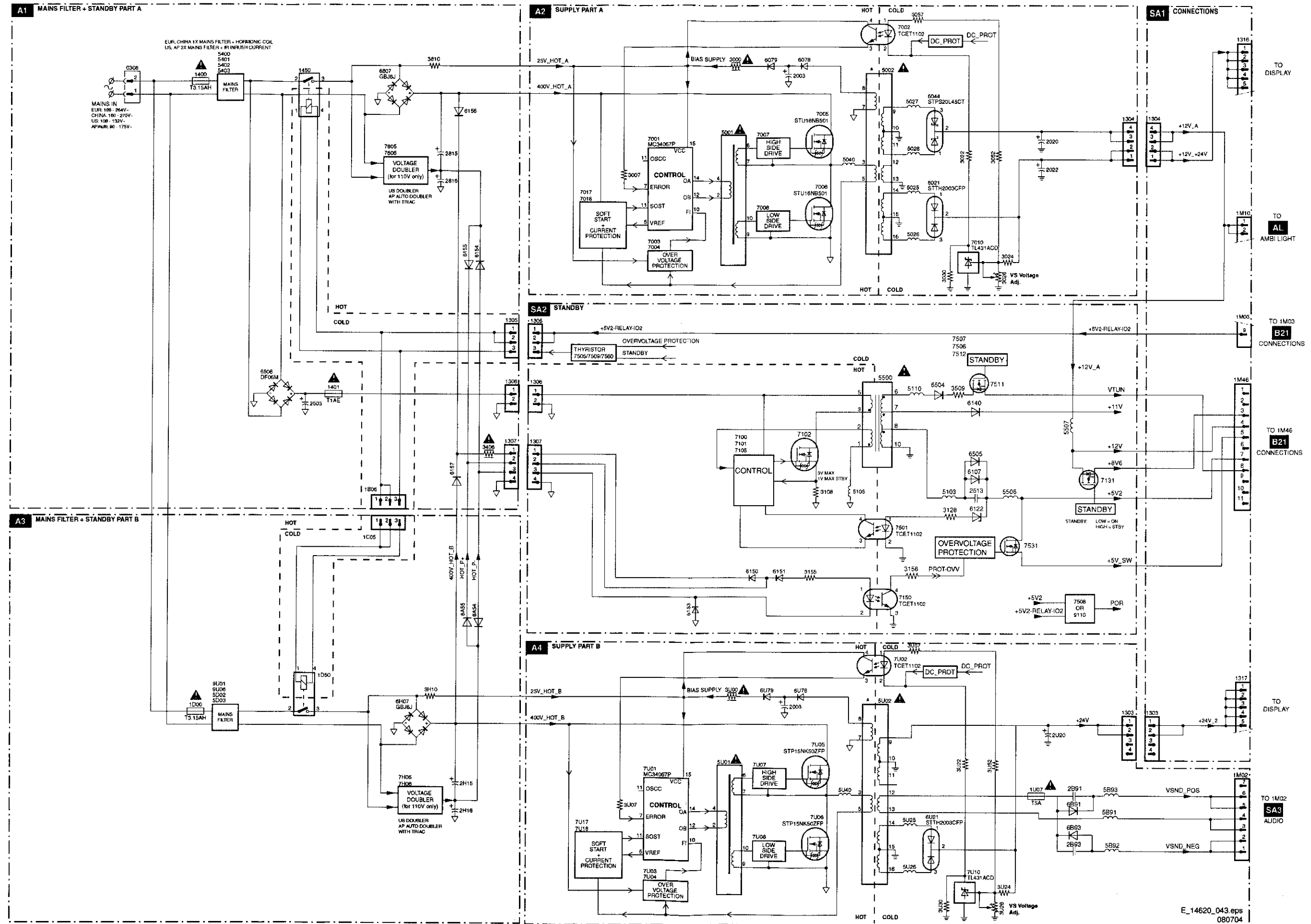


SUPPLY + STANDBY 37"

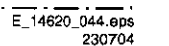


Block Diagram Supply + Standby 42"

SUPPLY + STANDBY 42"

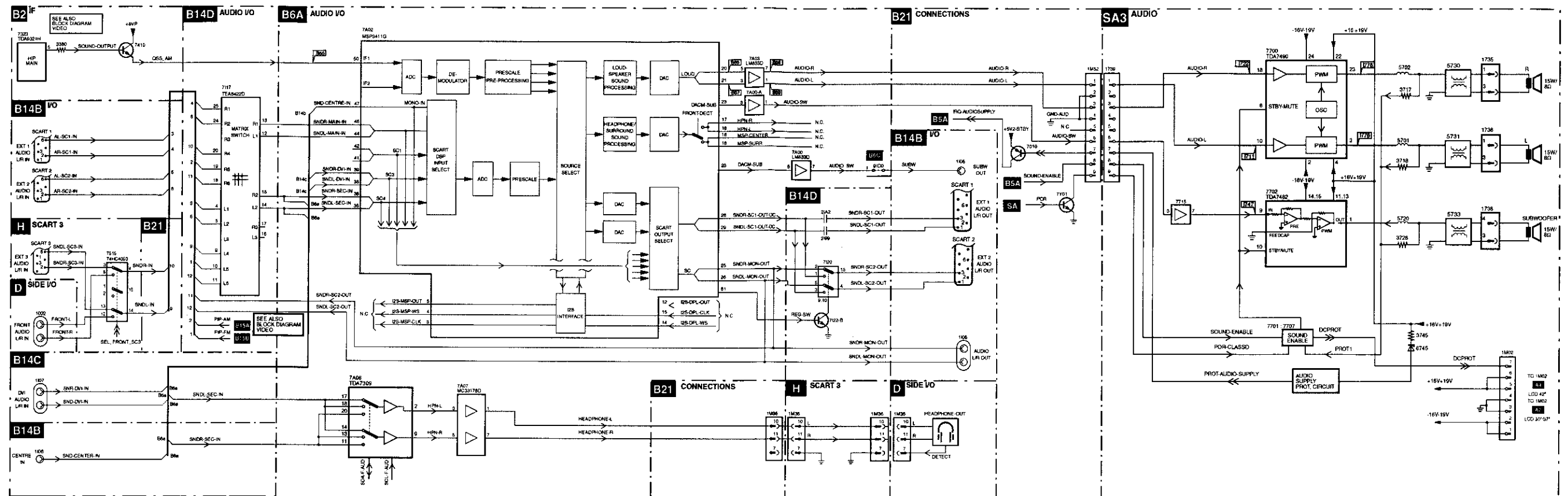


VIDEO

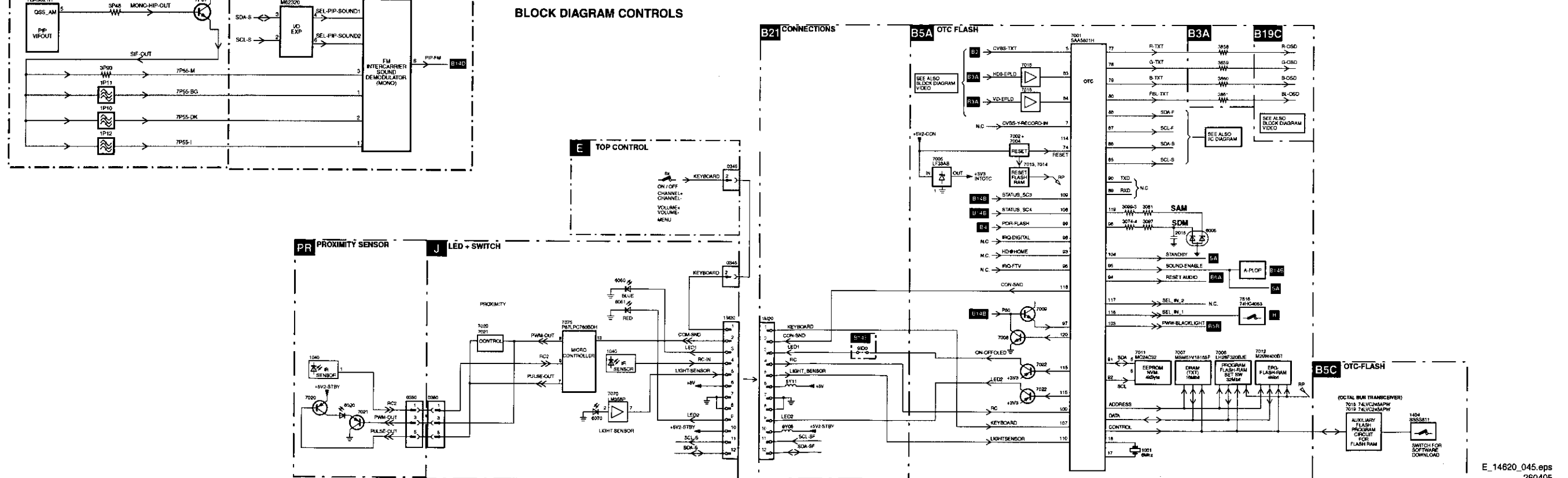


Block Diagram Audio

AUDIO

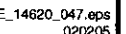


BLOCK DIAGRAM CONTROLS

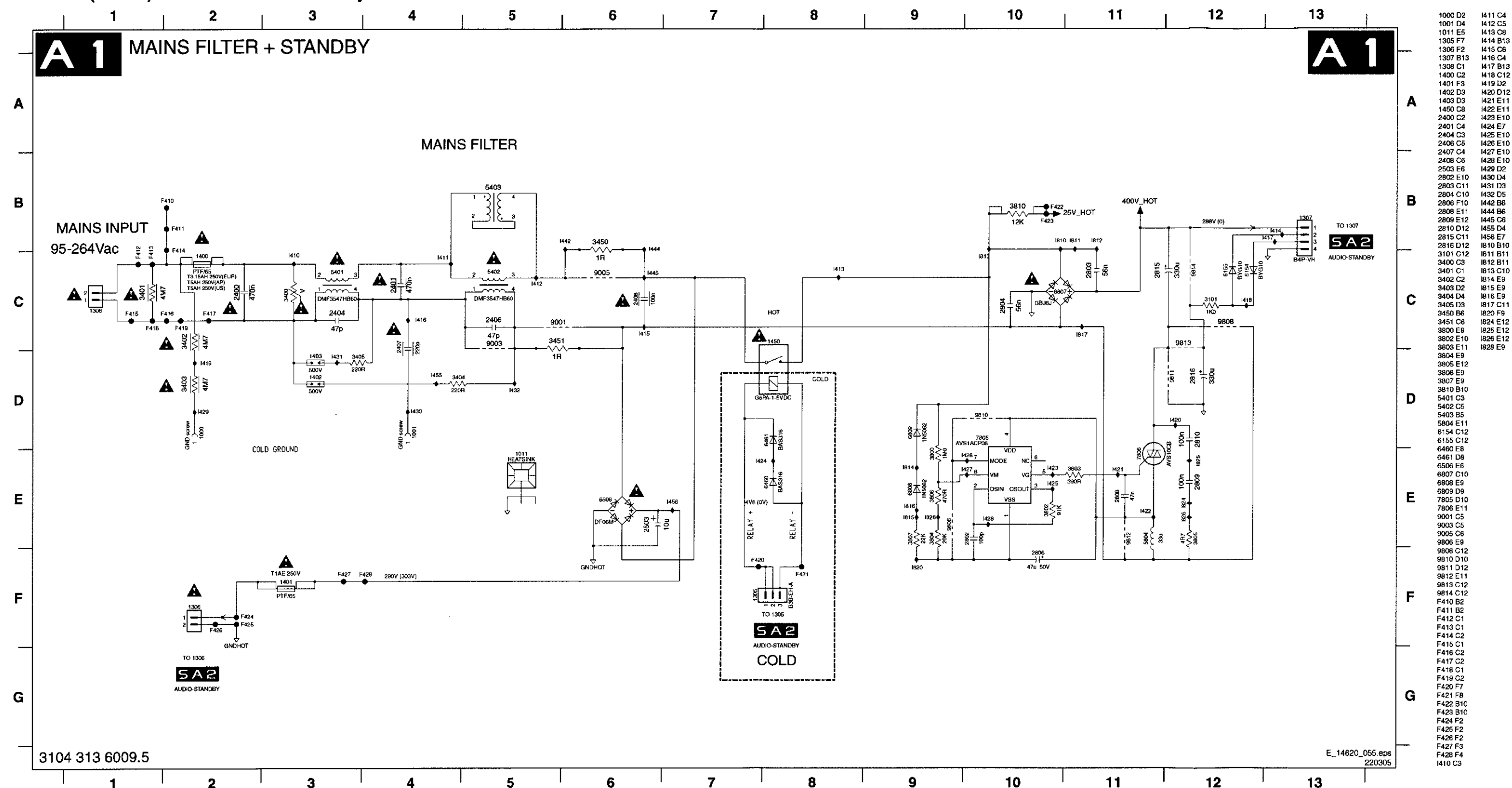


II C

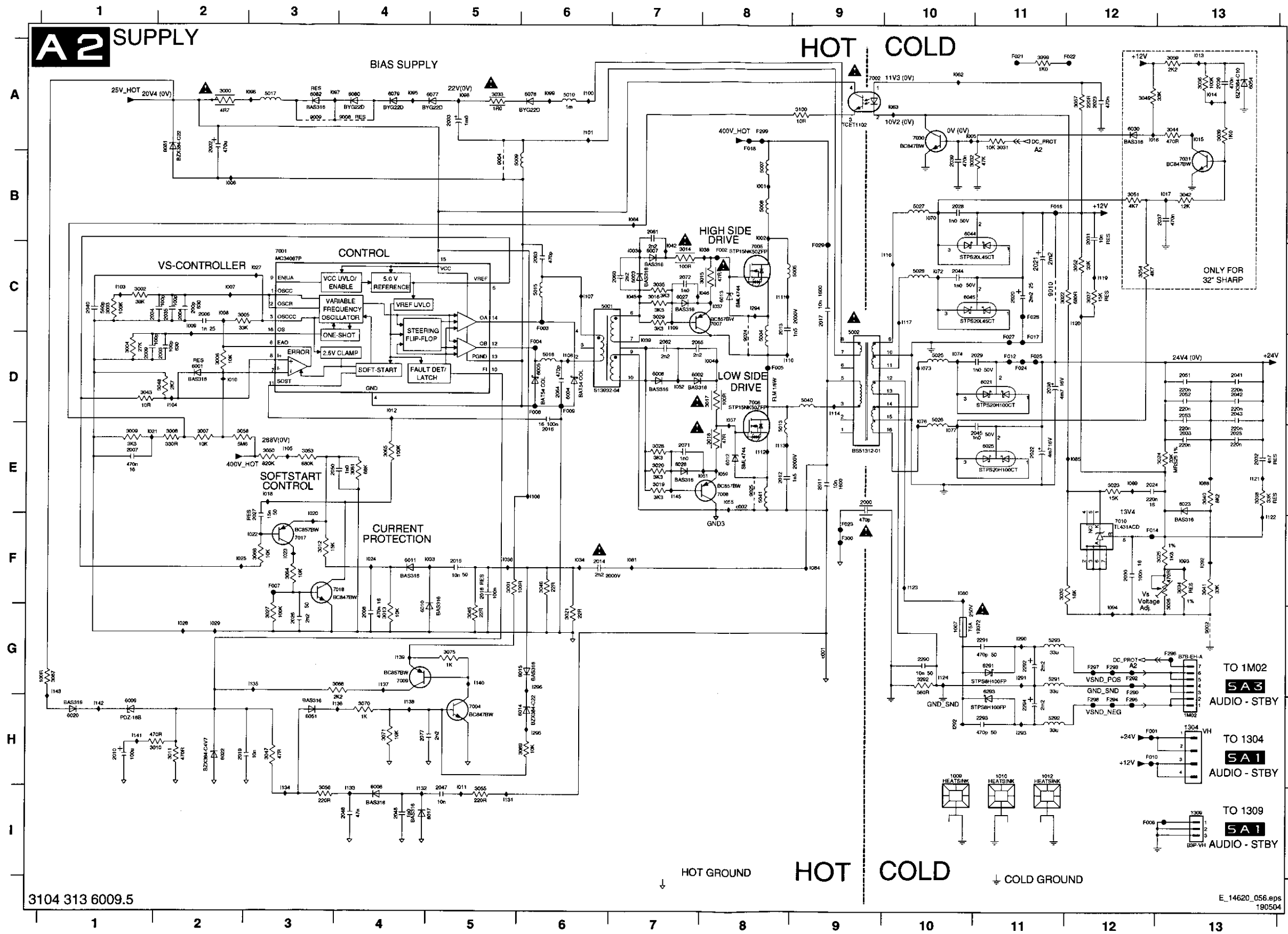
SUPPLY LINES OVERVIEW



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

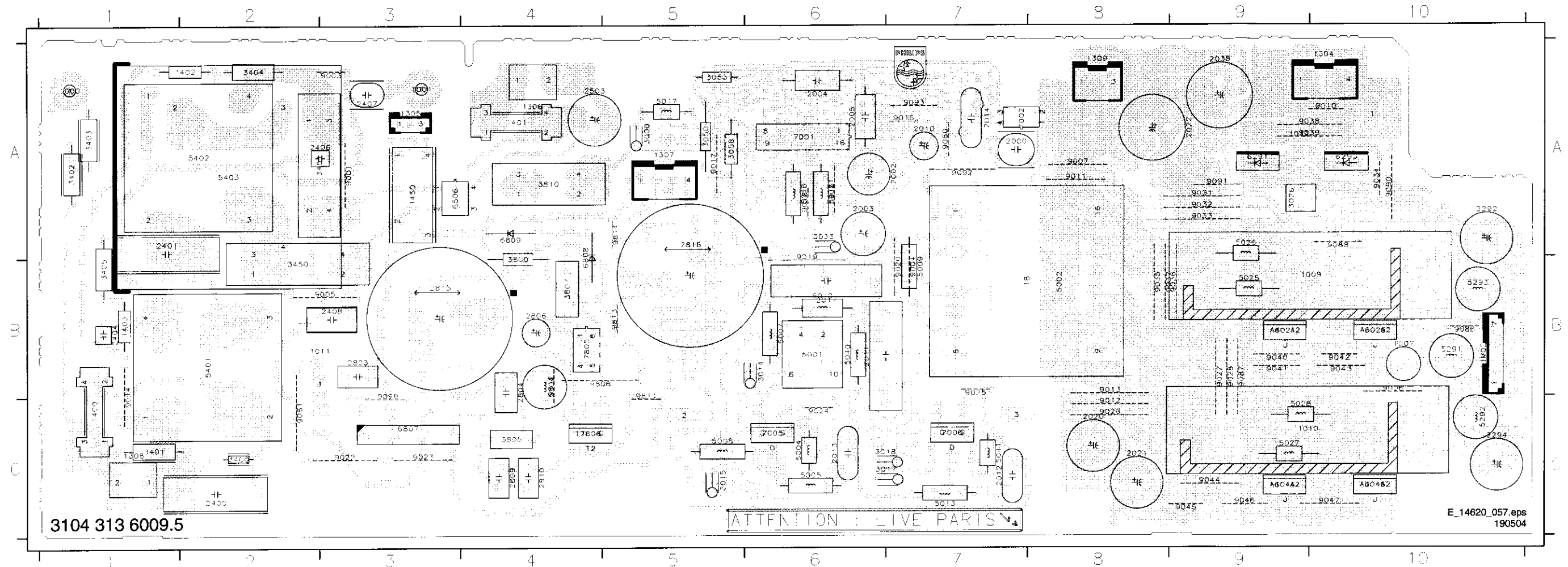


PSU (30-32"): Supply



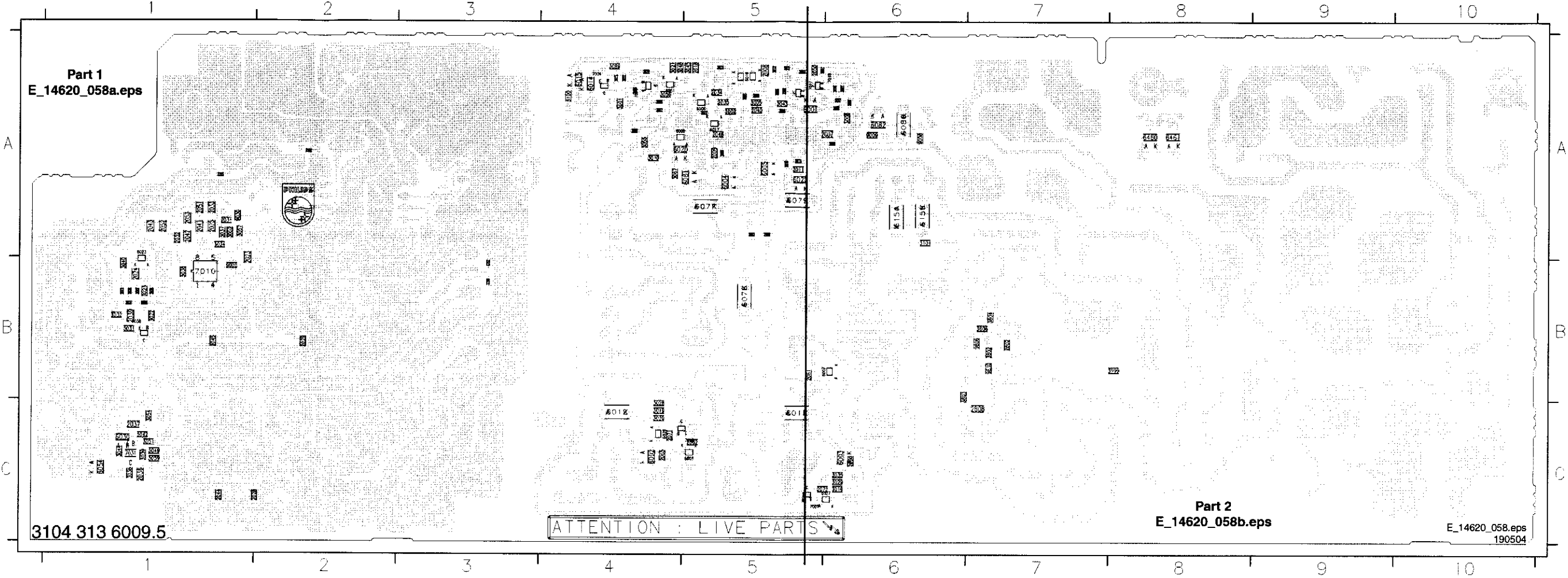
Layout PSU (30-32") (Top Side)

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	7801 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	

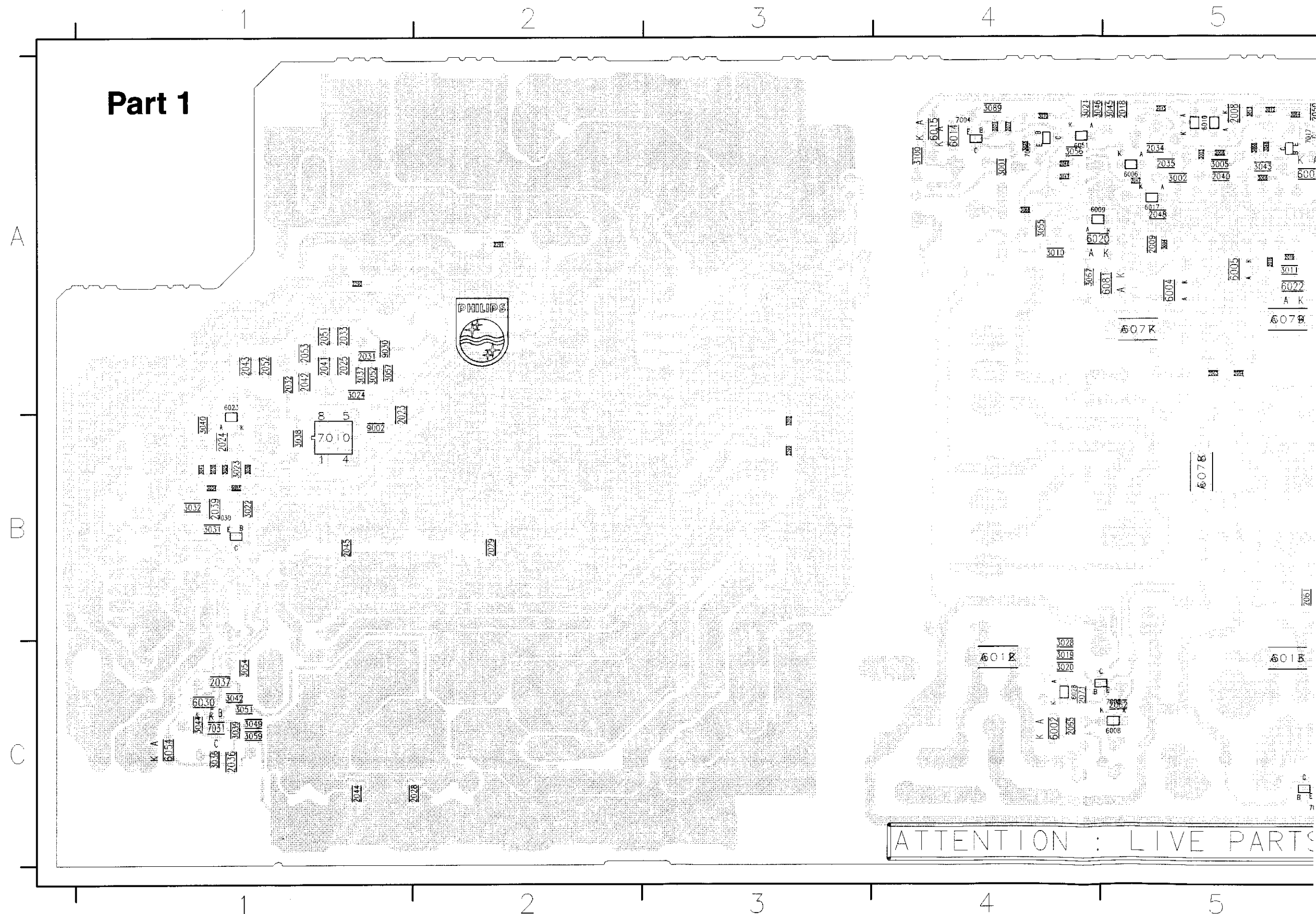


Layout PSU (30-32") (Overview Bottom Side)

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	



Part 1



ATTENTION : LIVE PARTS

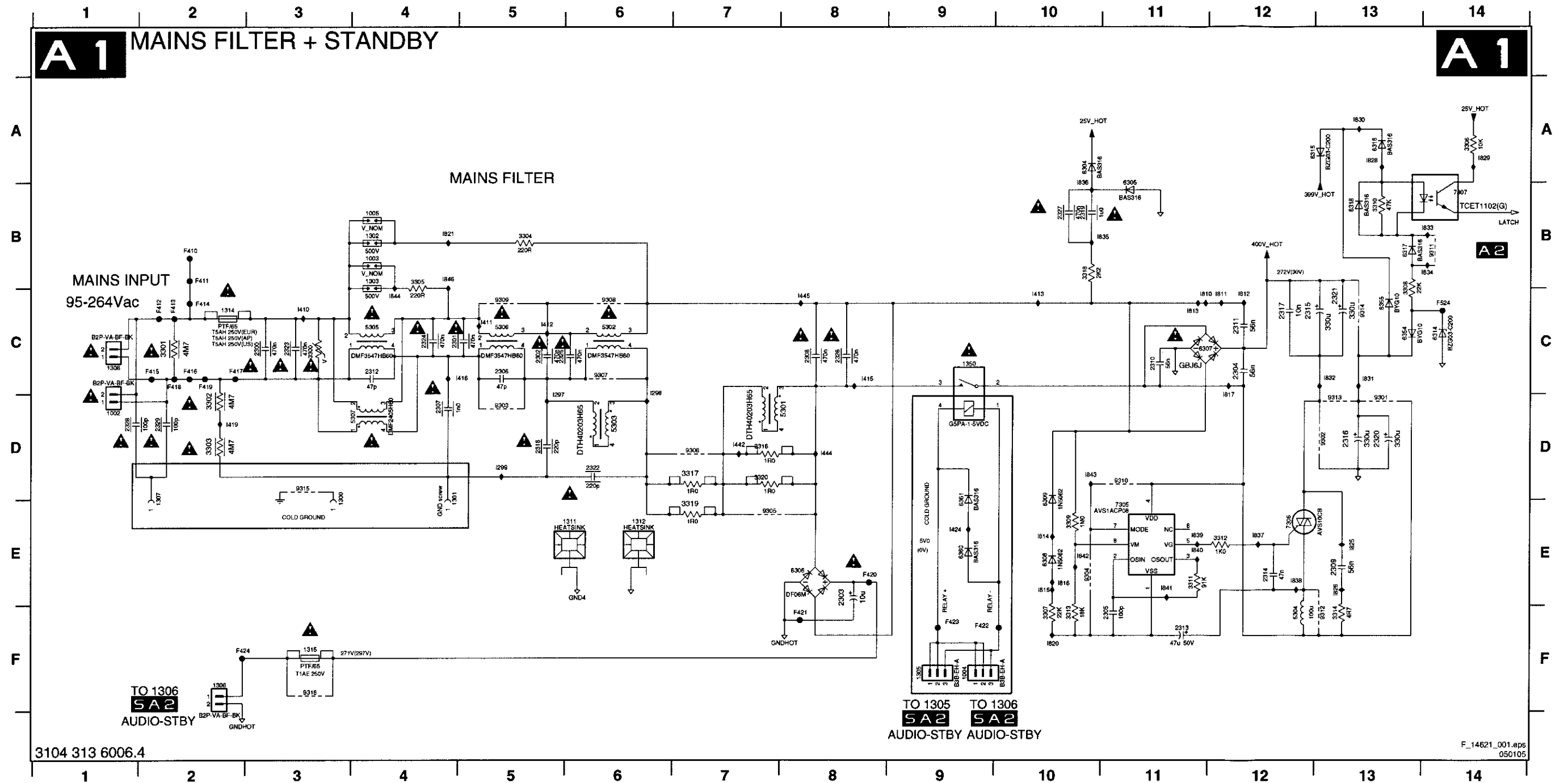
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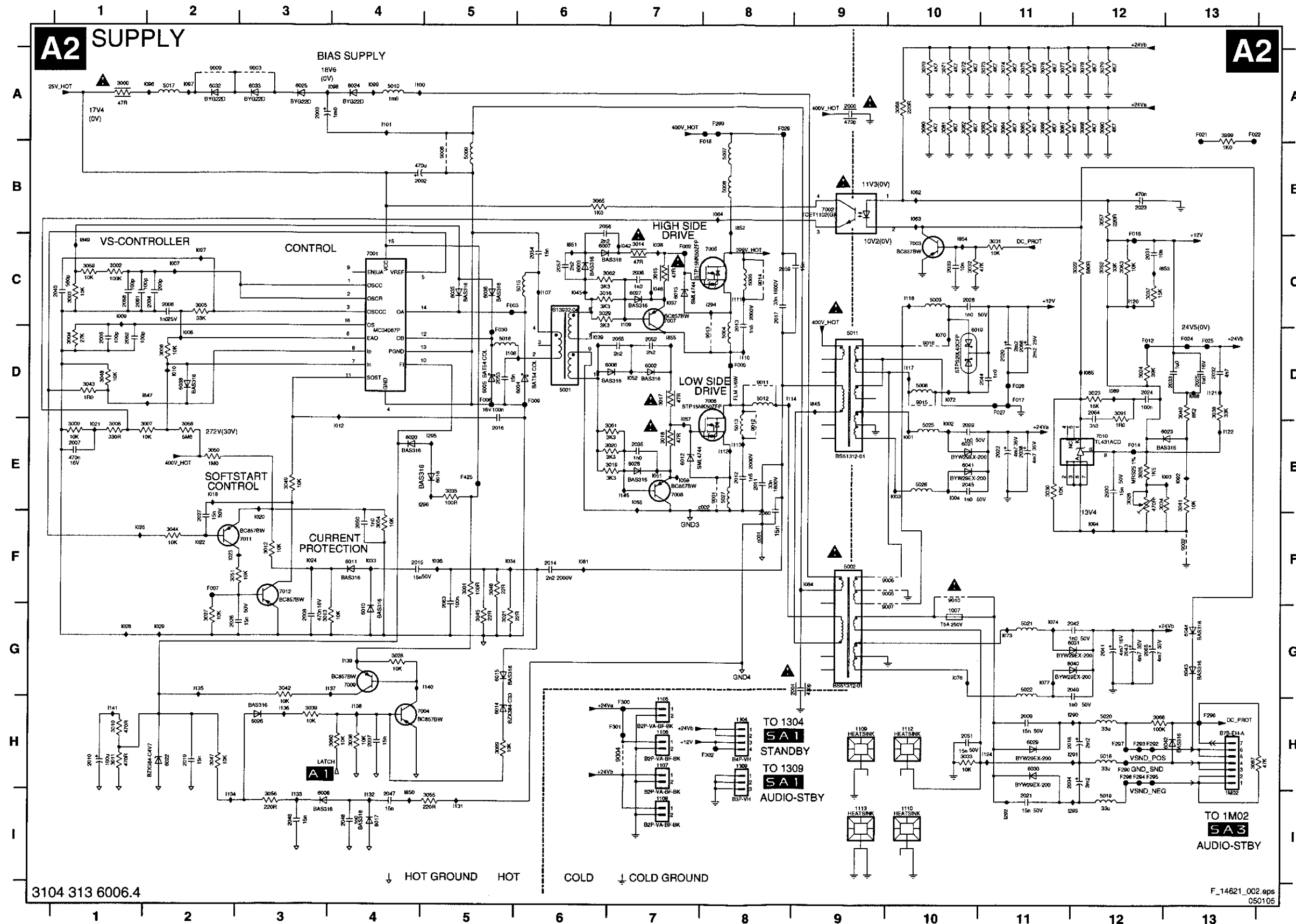
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PSU (37"): Mains Filter and Standby

1002 D1	1304 B4	1311 E6	2301 C4	2307 D4	2313 F11	2318 B10	2325 C5	3301 C2	3307 F10	3313 F10	3320 D7	5306 C5	5308 E10	5318 B13	7306 E12	9305 E7	9311 B14	F410 B2	F416 C2	F422 F9	I299 D5	I415 C5	I810 C11	I816 E10	I828 A13	I834 B14	I840 E11
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	5309 D10	5354 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	5304 A10	5314 C14	5355 C13	7301 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	5305 B11	5315 A12	5360 E9	7302 D13	9308 C6	9314 C13	F413 C2	F419 C2	F424 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	5306 E8	5316 A13	5361 D9	7303 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	5307 C11	5317 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



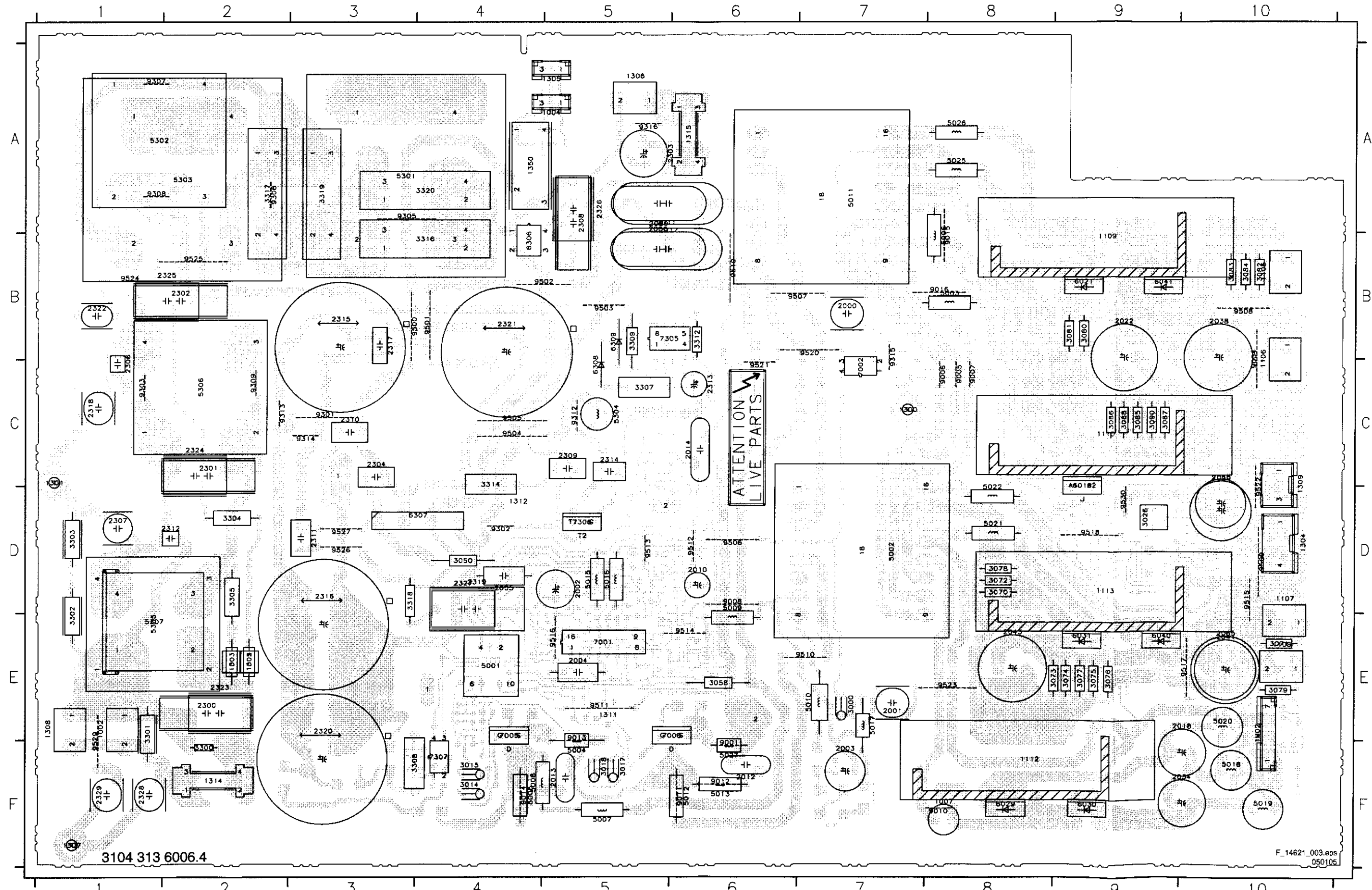
PSU (37"): Supply



1007 G10	3034 E12	6040 G12	1093 E13
1105 H7	3035 E5	6041 E10	1094 F12
1106 H7	3036 H4	6042 H13	1095 A2
1107 H7	3037 C12	6043 G13	1097 A2
1108 I7	3038 D13	6044 G13	1098 A4
1109 H9	3039 H3	7001 C4	1099 A4
1110 H10	3040 D13	7002 B9	1100 A4
1112 H10	3041 E13	7003 C10	1101 A4
1113 B	3042 G3	7004 H4	1107 C6
1304 H8	3043 D1	7005 C8	1108 D5
1309 H8	3044 F2	7006 D8	1109 C7
1M02 I13	3045 G5	7007 C7	1110 D8
2000 A9	3046 F5	7008 E7	1111 C8
2001 G9	3047 H2	7009 G4	1112 E8
2002 B4	3048 D1	7010 E12	1113 E8
2003 A3	3049 E3	7011 F3	1114 D8
2004 C2	3050 E2	7012 F3	1116 C10
2005 D1	3051 F2	9001 E6	1117 D10
2006 C2	3052 C12	9002 F13	1120 C12
2007 E1	3054 F4	9003 A3	1121 D13
2008 G3	3055 I5	9004 H7	1122 E13
2009 H11	3056 I3	9005 F10	1124 H11
2010 H1	3057 B12	9006 F10	1131 I5
2011 E8	3058 E2	9007 G10	1132 I4
2012 E8	3059 C1	9008 B5	1133 I3
2013 C8	3060 H4	9009 A2	1134 I2
2014 F6	3061 E7	9010 F10	1135 G2
2015 F4	3062 C8	9011 D8	1136 H3
2016 E5	3063 C12	9012 E8	1137 G4
2017 C8	3065 B6	9013 D8	1138 H4
2018 H12	3066 H12	9014 C8	1139 G4
2019 H2	3067 H13	9015 D10	1140 G5
2020 D11	3068 A10	9016 D10	1141 H1
2021 H11	3070 A10	F002 C7	1145 E7
2022 E11	3071 A10	F003 C5	1290 H12
2023 B12	3072 A10	F005 D8	1291 H12
2024 D12	3073 A11	F007 F2	1292 I11
2025 D13	3074 A11	F008 D6	1293 I12
2026 G2	3075 A11	F009 D6	1294 C8
2027 F2	3076 A11	F012 D12	1295 E5
2028 C10	3077 A11	F014 E12	1296 E5
2029 E10	3078 A12	F016 C12	1345 D9
2030 E12	3079 A12	F017 D11	1347 D2
2031 C12	3080 A10	F018 B8	1349 C1
2032 D13	3081 A10	F021 A13	1350 I4
2033 D13	3082 A10	F022 A13	1351 C6
2034 H12	3083 A11	F024 D13	1352 B8
2035 E7	3084 A11	F025 D13	1353 C12
2036 C7	3085 A11	F027 D11	1354 C10
2037 H4	3086 A11	F028 D11	1355 D7
2038 E11	3087 A11	F029 A8	1356 F8
2039 C10	3088 A12	F030 D5	1357 E8
2040 C1	3089 H5	F290 H12	
2041 G12	3090 A12	F292 H12	
2042 G12	3091 D12	F293 H12	
2043 G12	3092 A13	F294 H12	
2044 D11	3093 D6	F295 H12	
2045 E10	3094 F9	F296 H12	
2046 I3	3095 C10	F297 H12	
2047 I4	3096 D8	F298 H12	
2048 I4	3097 C8	F299 A8	
2049 G12	3098 D10	F300 H7	
2050 F4	3099 B8	F301 H7	
2051 H10	3099 B8	F302 H8	
2052 D7	3099 B8	F425 E5	
2053 D5	3099 B8	F425 E5	
2054 C6	3099 B8	F425 E5	
2055 D7	3099 B8	F425 E5	
2056 B6	3099 B8	F425 E5	
2057 C6	3099 B8	F425 E5	
2058 C1	3099 B8	F425 E5	
2059 C8	3099 B8	F425 E5	
2060 E8	3099 B8	F425 E5	
2061 C1	3099 B8	F425 E5	
2062 D1	3099 B8	F425 E5	
2063 F5	3099 B8	F425 E5	
2064 D12	3099 B8	F425 E5	
2065 G12	3099 B8	F425 E5	
2066 D11	3099 B8	F425 E5	
3000 A1	3099 B8	F425 E5	
3001 F5	3099 B8	F425 E5	
3002 C1	3099 B8	F425 E5	
3003 C1	3099 B8	F425 E5	
3004 D1	3099 B8	F425 E5	
3005 C2	3099 B8	F425 E5	
3006 D2	3099 B8	F425 E5	
3007 E2	3099 B8	F425 E5	
3008 E1	3099 B8	F425 E5	
3009 E1	3099 B8	F425 E5	
3010 H1	3099 B8	F425 E5	
3011 H1	3099 B8	F425 E5	
3012 F3	3099 B8	F425 E5	
3013 G3	3099 B8	F425 E5	
3014 C7	3099 B8	F425 E5	
3015 C7	3099 B8	F425 E5	
3016 C6	3099 B8	F425 E5	
3017 D7	3099 B8	F425 E5	
3018 E7	3099 B8	F425 E5	
3019 E7	3099 B8	F425 E5	
3020 E7	3099 B8	F425 E5	
3021 G6	3099 B8	F425 E5	
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3025 E12	3099 B8	F425 E5	
3026 E12	3099 B8	F425 E5	
3027 G2	3099 B8	F425 E5	
3028 G4	3099 B8	F425 E5	
3029 C6	3099 B8	F425 E5	
3030 E11	3099 B8	F425 E5	
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3032 C10	3099 B8	F425 E5	
3033 H10	3099 B8	F425 E5	

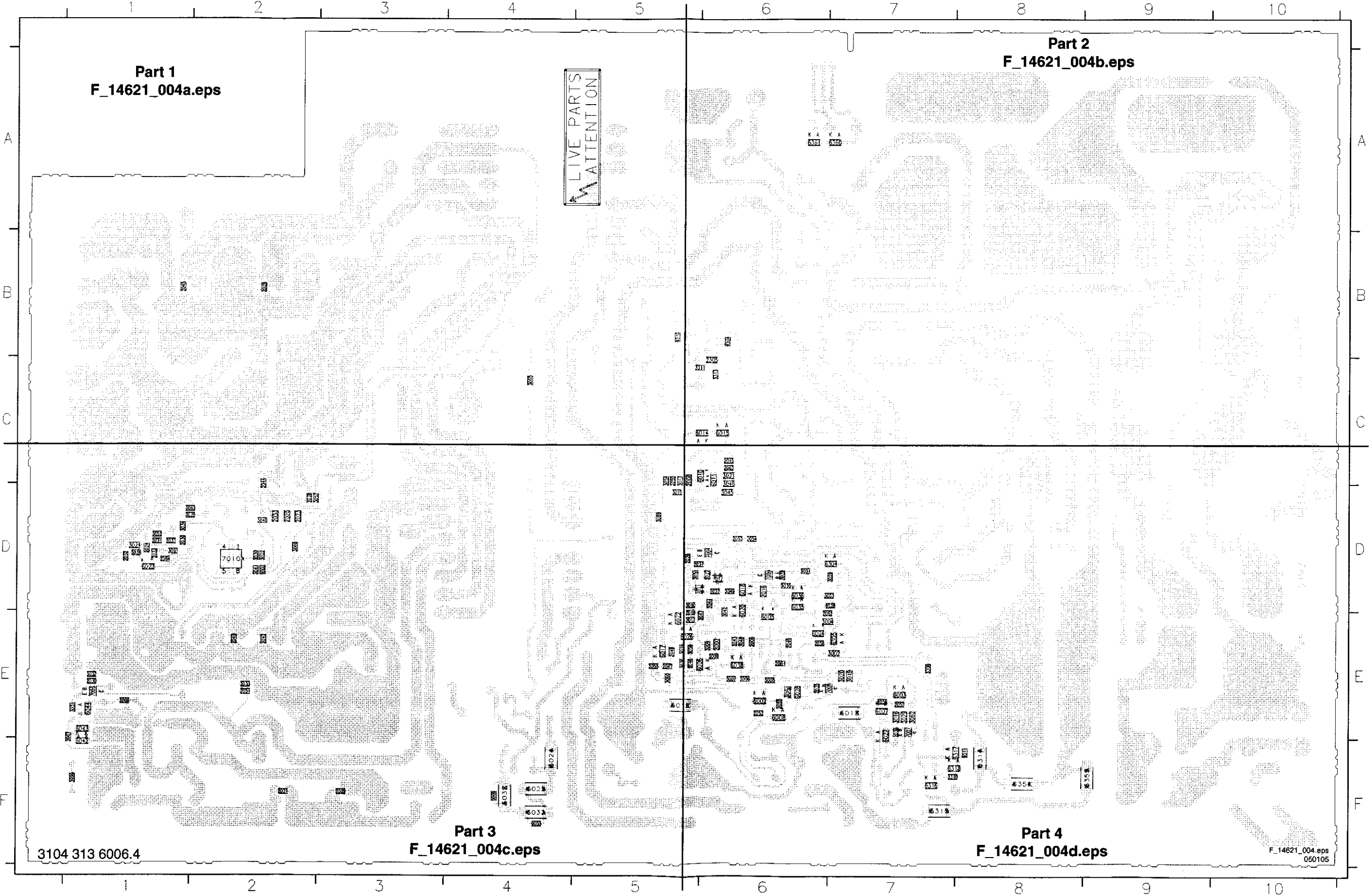
Layout PSU (37") (Top Side)

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	5011	A7	5021	D8	5305	E1	6041	B9	7305	B5	9010	F7	9303	C1	9315	B7	9507	B6	9516	E5	9525	B2
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	5012	F5	5022	C8	5306	C1	6306	B4	7306	D5	9011	F6	9305	A3	9316	A5	9508	B10	9517	E10	9526	D3
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	5013	F6	5025	A8	5307	D1	6307	D3	7307	F4	9012	F6	9306	A2	9300	B3	9509	D10	9518	D9	9527	D3
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	5015	D5	5026	A8	5309	D9	6308	B5	9001	F6	9013	E5	9307	A1	9501	B4	9510	E7	9519	B6	9529	F1
1007	F8	1300	C7	1309	C10	2002	D5	2017	A5	2060	B6	2307	D1	2316	D2	2325	B2	3018	F5	3075	E9	3084	B10	3303	D1	3317	A2	5006	B7	5016	D5	5027	E6	6021	B9	6309	B5	9004	B10	9014	F4	9308	A1	9502	B4	9511	E5	9520	B6	9530	D9
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	5017	E7	5301	A3	6029	F8	7001	E5	9005	C8	9315	B8	9309	C2	9303	B5	9512	D6	9521	B6		
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	5018	F10	5302	A1	6030	F9	7002	B7	9006	C8	9316	B8	9312	C5	9504	C4	9513	D5	9522	C10		
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	5019	F10	5303	A2	6031	E9	7005	F4	9007	C8	9301	C3	9313	C2	9505	C4	9514	E6	9523	E8		
1108	E10	1304	D10	1315	A6	2010	D6	2034	F9	2301	C2	2311	D3	2320	E3	2329	F1	3070	D8	3079	E10	3088	C9	3308	F3	5001	E4	5010	E7	5020	E10	5304	C5	6040	E9	7006	F5	9008	D6	9302	D4	9314	C3	9506	D6	9515	D10	9524	B1		

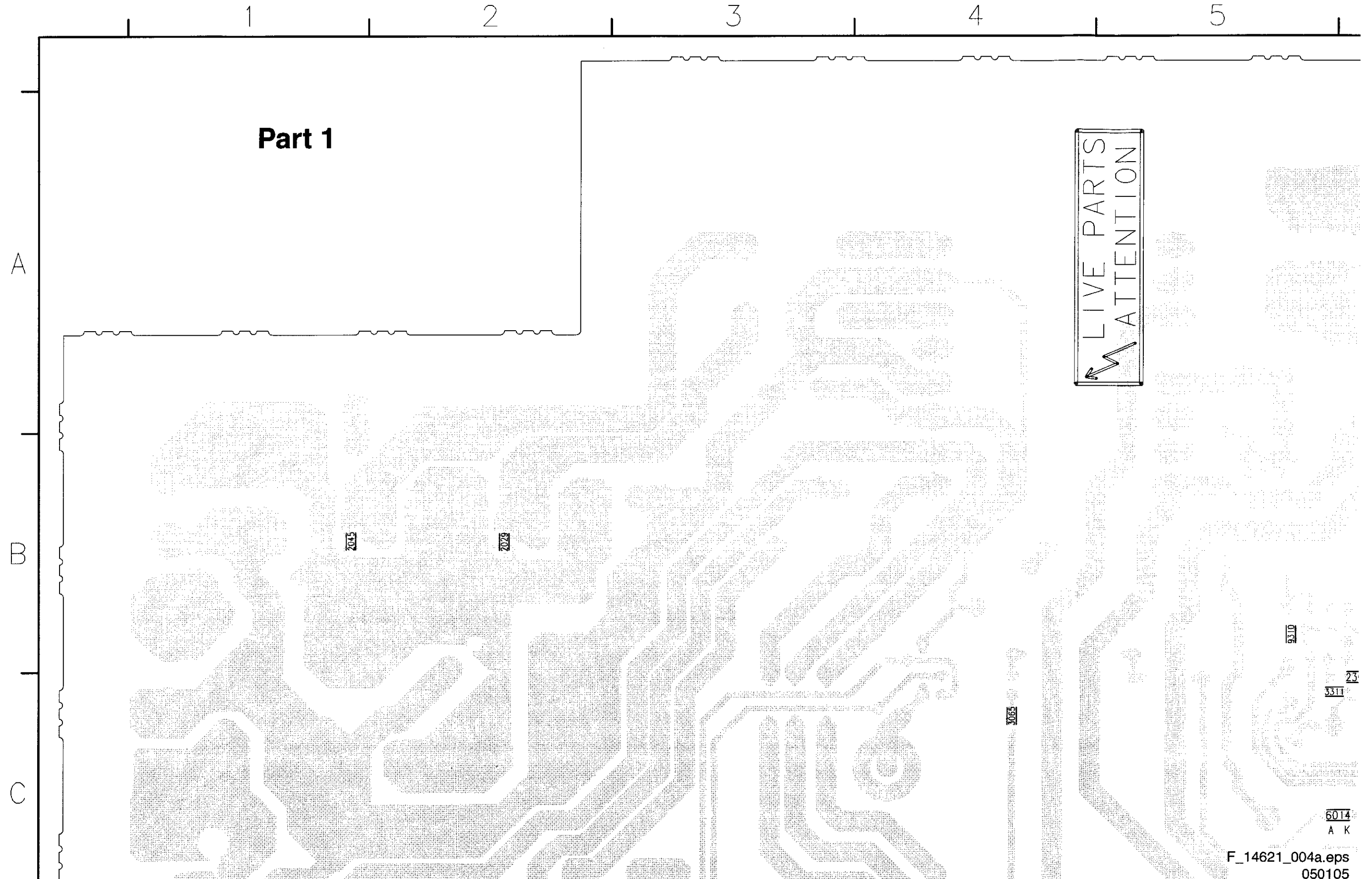


Layout PSU (37") (Overview Bottom Side)

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 E5
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	3069 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)



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

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Part 2

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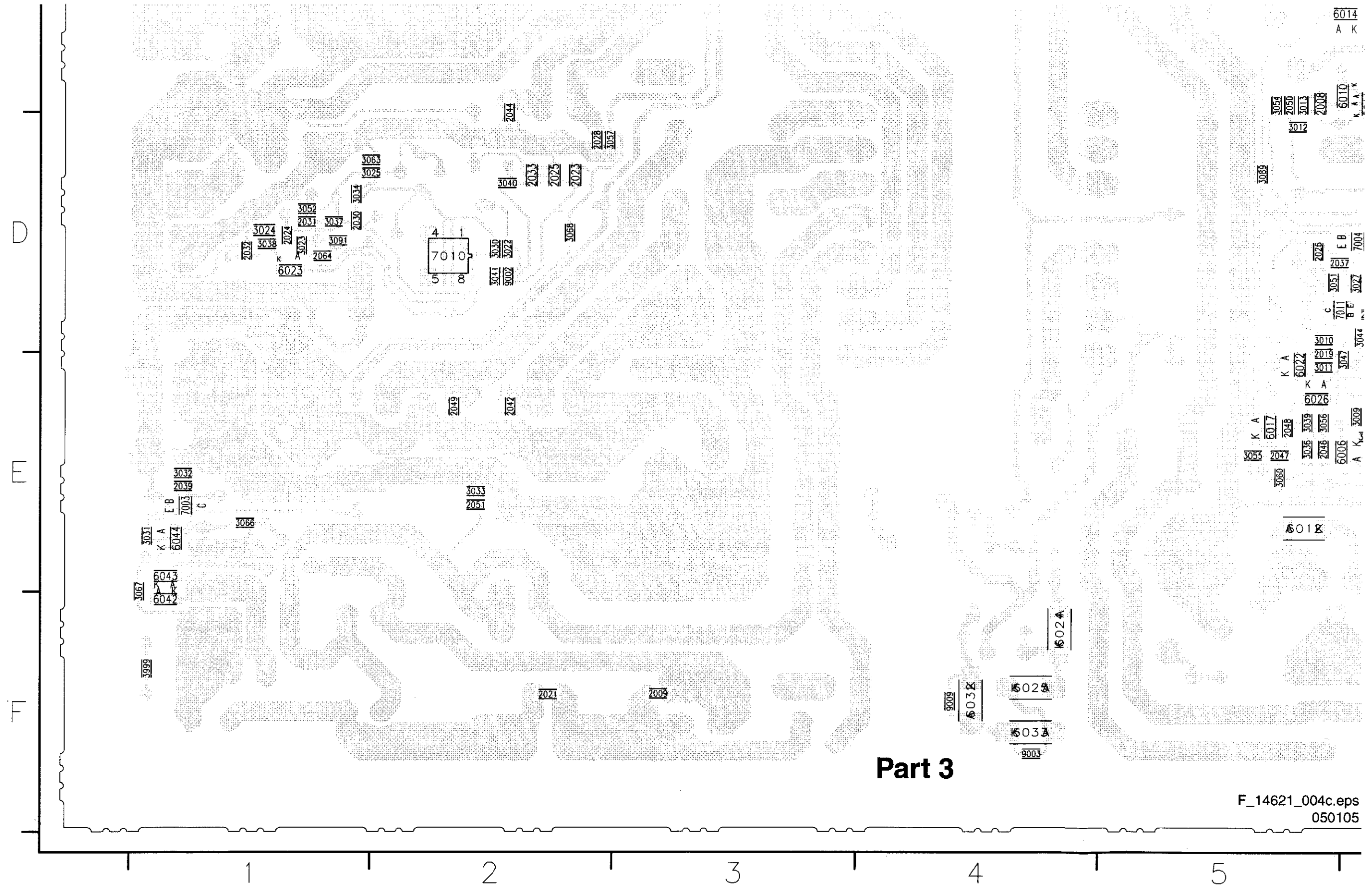
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6015

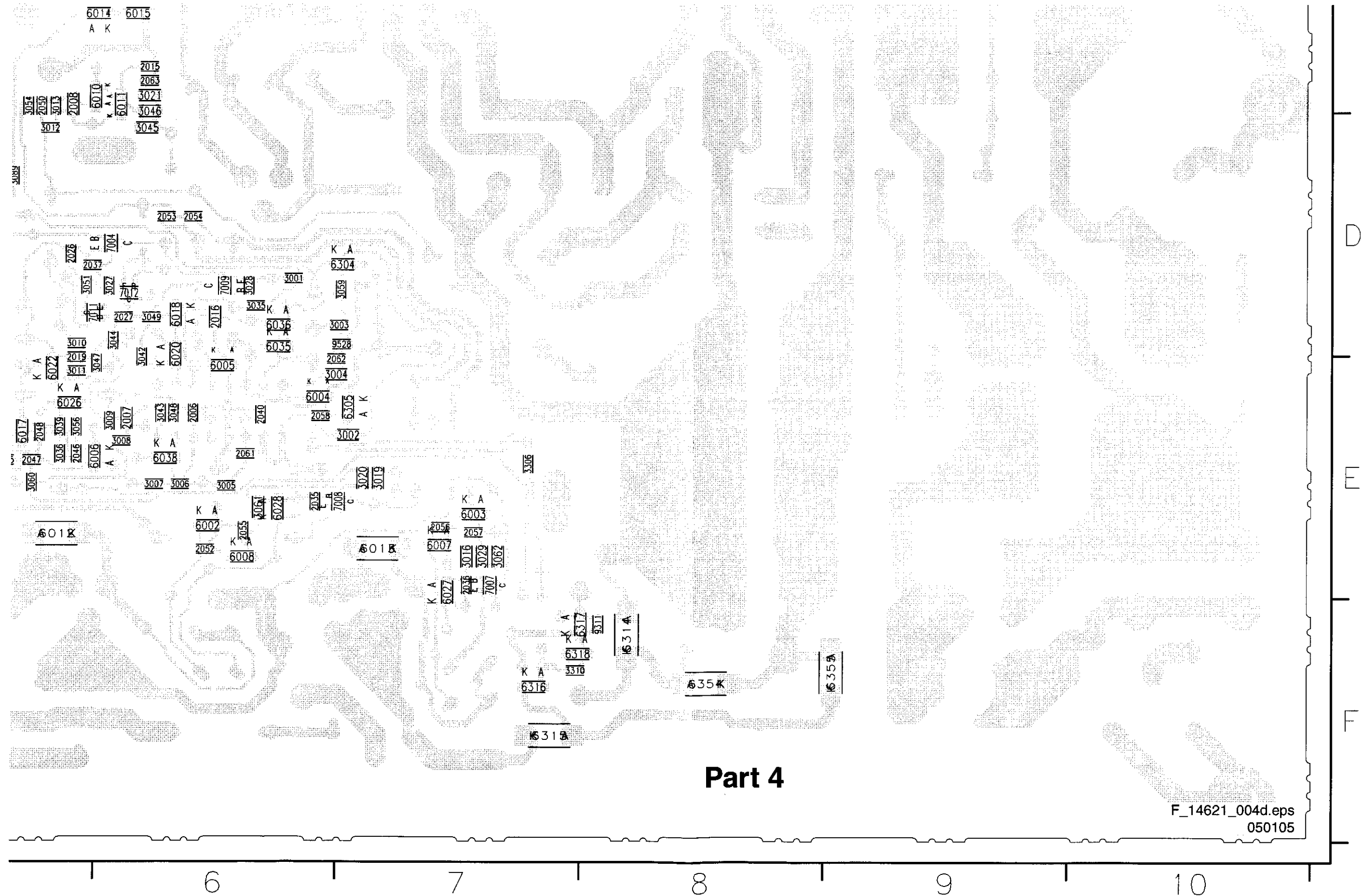
A K

2015

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

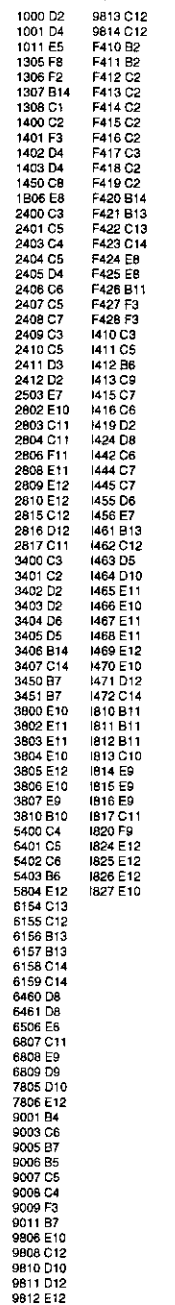


Layout PSU (37") (Part 4 Bottom Side)

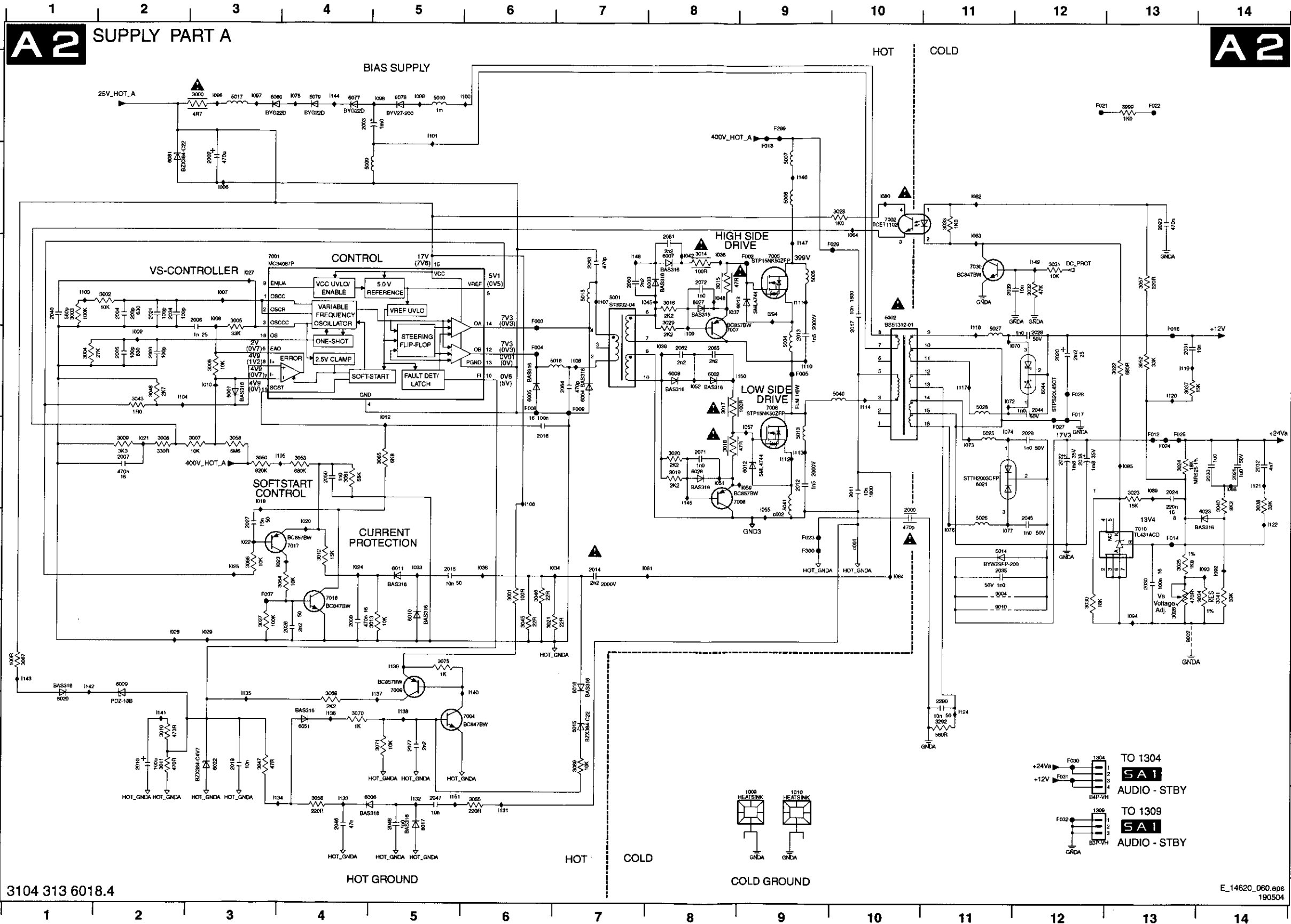


Part 4

A 1 MAINS FILTER + STANDBY PART A

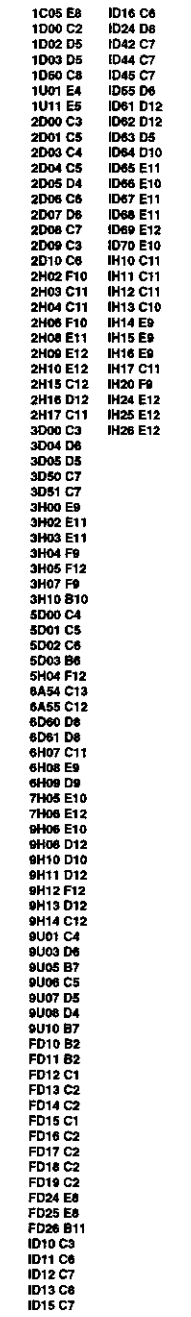


PSU (42"): Supply Part A



1009 B9	3070 H4	1038 C8
1010 B9	3071 H5	1039 D8
1034 H12	3075 G5	1042 C8
1309 I12	3089 H7	1045 C7
2000 F10	3252 H11	1046 C8
2002 B3	3999 A13	1051 E8
2003 A4	5001 C7	1052 D8
2004 C2	5002 C10	1056 E9
2005 D2	5004 D8	1057 E9
2006 C3	5005 C9	1058 E9
2007 E2	5007 B9	1062 B11
2008 G4	5008 B9	1063 B11
2009 D2	5009 B4	1064 B10
2010 H2	5010 A5	1070 D12
2011 E10	5013 E9	1072 D11
2012 E9	5015 C7	1073 E11
2013 D9	5016 D7	1074 E11
2014 F7	5017 A3	1075 F11
2015 F7	5025 E11	1077 F11
2016 E6	5026 F11	1078 A4
2017 C10	5027 D11	1080 S10
2019 H3	5028 D11	1081 F8
2020 D12	5040 D10	1084 F10
2021 C2	5041 E9	1085 E13
2022 E12	6001 D3	1088 E14
2023 B13	6002 D8	1089 E13
2024 E19	6003 C8	1092 F14
2025 E14	6004 D7	1093 F14
2026 G4	6005 D6	1094 G13
2027 F3	6006 I5	1096 A3
2028 D12	6007 C8	1097 A3
2029 E12	6008 D8	1098 A5
2030 F13	6009 G2	1099 A5
2031 D13	6010 G5	1100 A6
2032 E14	6011 F5	1101 A6
2033 E14	6012 E9	1103 C1
2034 C2	6013 C9	1104 D2
2035 F11	6014 F11	1105 E4
2038 E12	6015 H7	1106 E6
2039 C11	6016 G7	1107 C7
2040 C1	6017 I5	1108 D7
2044 D12	6020 H1	1109 D8
2045 F12	6021 E11	1110 D9
2046 I4	6022 H3	1111 C9
2047 I5	6023 F14	1112 E9
2048 I5	6027 C8	1113 E9
2050 E4	6028 E8	1114 D10
2060 C7	6044 D12	1116 C11
2061 C8	6051 H4	1117 D11
2062 D8	6077 A4	1119 D13
2063 C7	6078 A5	1120 D13
2064 D7	6079 A4	1121 E14
2065 D8	6080 A3	1122 F14
2071 E8	6081 B2	1124 H11
2072 C8	7001 C3	1131 I6
2077 H5	7002 B10	1132 I5
2290 H11	7004 H6	1133 I4
3020 A3	7005 C9	1134 I4
3001 F6	7006 D9	1135 H3
3002 C2	7007 D8	1136 H4
3003 C1	7008 E8	1137 H5
3004 D1	7009 G5	1138 H5
3005 C3	7010 F13	1139 G5
3006 D3	7017 F4	1140 G6
3007 E3	7018 F4	1141 H2
3008 E2	7030 C11	1142 G1
3009 E2	9002 G13	1143 G1
3010 H2	9004 F11	1144 A4
3011 H2	9010 G11	1145 E8
3012 F4	F002 C9	1146 B9
3013 G5	F003 C6	1147 C9
3014 C8	F004 D5	1148 C7
3015 C8	F005 D9	1149 C12
3016 C8	F007 F3	1150 D9
3017 D8	F008 D6	1151 I5
3018 E8	F009 D7	1294 C9
3019 E8	F012 E13	6001 F10
3020 E8	F014 F13	6002 F8
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 B3	F024 E13	
3028 G10	F025 E13	
3029 C8	F027 E12	
3030 S12	F028 D12	
3031 C12	F029 C10	
3032 C12	F030 H12	
3033 B11	F031 H12	
3034 F14	F032 I12	
3037 D13	F296 A9	
3038 E14	F300 F9	
3040 E14	I006 B5	
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 I5	I023 F3	
3056 I4	I024 F4	
3057 C13	I025 F3	
3058 E3	I027 C3	
3061 E4	I028 G2	
3064 F4	I029 G3	
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3066 F3	I034 F7	
3067 G1	I036 F6	
3068 H4	I037 C8	

A 3



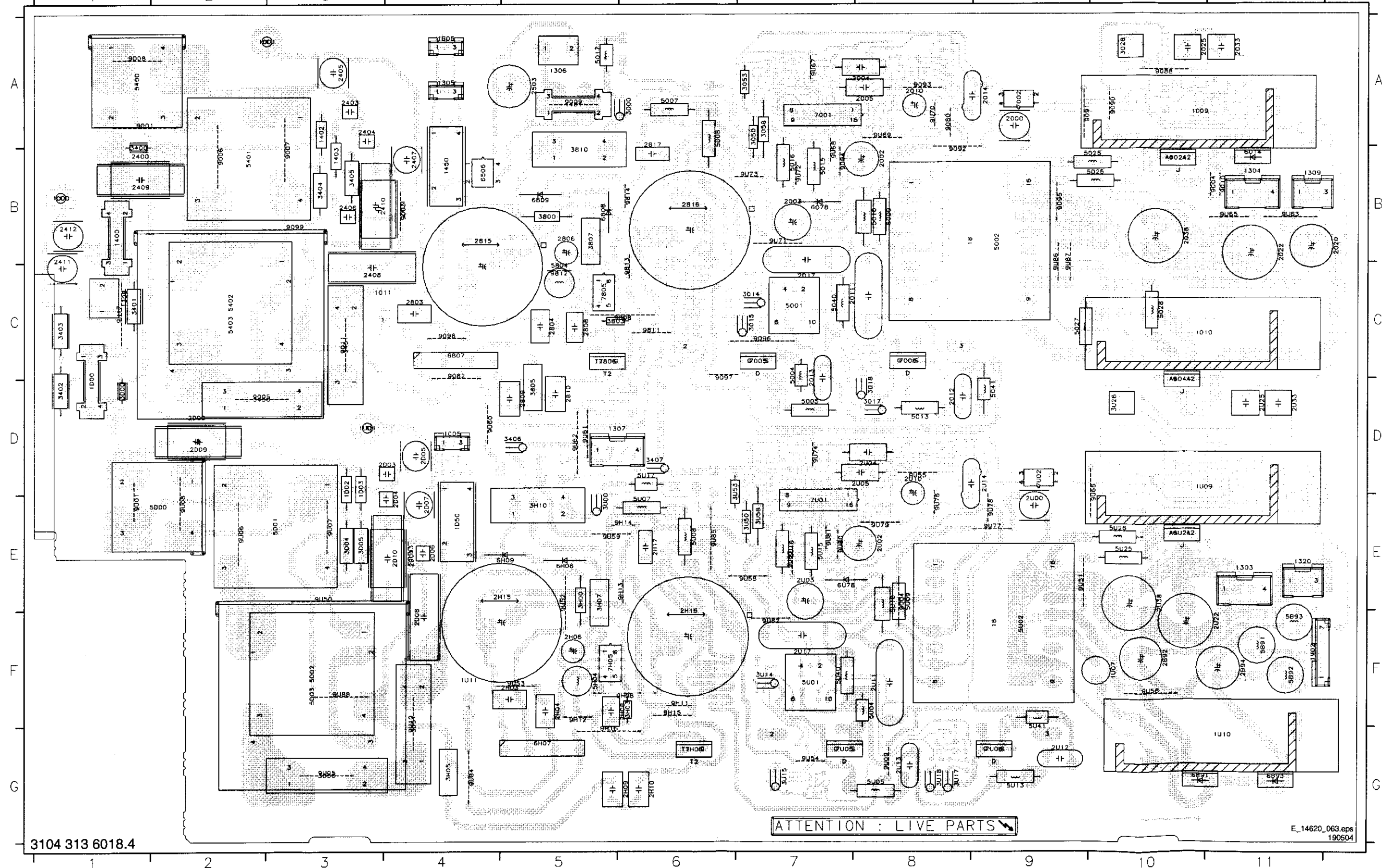
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SUPPLY PART B

13003 H13	3U70 H4	I433 I4
1302 H13	3U71 H5	I434 I4
1302 H14	3U75 G5	I435 G3
1307 G11	3U89 H7	I436 H4
1309 I9	5B91 G13	I437 A5
1310 H10	5B92 H13	I438 H5
2B91 G11	5U01 G7	I439 G9
2B91 G11	5U02 C7	I440 G6
2B92 G12	SU01 C7	I442 G1
2B93 H11	5U04 D9	I443 G1
2B94 H12	5U05 C9	I444 C14
2U00 E10	5U07 B9	I445 E8
2U02 B3	5U08 B9	I446 B8
2U03 H4	5U09 B5	I447 B9
2U04 C2	5U10 A5	I446 C7
2U05 D2	5U13 E9	I449 C12
2U06 G3	5U15 C7	I450 D9
2U07 E2	5U16 D7	I451 I5
2U08 G4	5U17 A3	I900 G12
2U09 D2	6U25 E11	H81 G12
2U09 D2	6U26 F11	I449 H11
2U11 E10	5U40 D10	I952 H12
2U12 E9	5U41 E9	I953 H12
2U13 D9	6B91 G12	I905 A4
2U14 F7	6B93 H12	I906 B2
2U15 F5	6U01 D3	I907 G3
2U16 E6	6U02 D6	I908 C3
2U17 C10	6U03 D6	I909 D2
2U19 H9	6U04 D7	I910 D3
2U21 C2	6U05 D6	I912 D5
2U22 E12	6U06 I5	I916 E3
2U23 B14	6U07 C8	I920 F4
2U24 E3	6U08 D6	I921 E3
2U25 E14	6U09 G2	I922 F3
2U26 G4	6U10 G5	I923 F7
2U27 E12	6U11 F3	I924 F4
2U29 E12	6U12 E9	I925 F3
2U30 F13	6U13 C9	I927 G3
2U32 E14	6U15 H7	I928 G2
2U33 E14	6U16 G7	I929 G3
2U34 C2	6U17 I5	I935 F5
2U35 E12	6U20 H10	I934 F7
2U36 E12	6U21 E12	I936 F5
2U40 C1	6U22 H3	I937 C9
2U45 F12	6U23 E14	I938 C8
2U46 H4	6U27 C8	I939 D8
2U47 I5	6U28 E8	I941 H2
2U48 I5	6U51 H4	I942 C8
2U49 H4	6U77 A4	I943 C8
2U60 C7	6U78 A5	I946 C8
2U61 B8	6U79 A4	I951 E8
2U62 D6	6U81 E2	I952 D9
2U63 C7	7U01 C3	I955 E9
2U64 D7	7U02 B10	I957 E9
2U65 D6	7U04 H6	I959 E9
2U66 D6	7U05 C9	I962 B11
2U72 C8	7U06 D9	I963 B11
2U77 H5	7U07 C8	I964 B10
3B92 G11	7U08 E9	I973 E11
3U00 A3	7U09 G5	I974 E12
3U01 F6	7U10 F13	I976 F11
3U02 C2	7U17 F4	I977 F12
3U03 H12	7U18 C3	I979 B10
3U04 D1	7U30 C11	I980 F11
3U05 C3	8U02 G13	I981 F8
3U06 D9	9U04 B5	I984 F10
3U07 E3	9B90 H14	I985 E13
3U08 E2	9B92 G14	I986 E14
3U09 E2	9B93 G13	I989 E13
3U10 H12	9U13 H13	I992 F14
3U11 H2	9B95 H14	I985 F14
3U12 F4	9B96 G14	I984 G13
3U13 G5	9B97 G13	I986 A3
3U14 C8	9B98 H13	I987 A3
3U15 C8	9C00 F9	I988 A5
3U16 C8	9U02 C9	I989 A5
3U17 F12	9U03 C9	I990 F10
3U18 E8	9U04 D6	cU02 F9
3U19 E8	9U05 D9	
3U20 E8	9U07 F3	
3U21 G6	9U08 D6	
3U22 D13	9U09 D7	
3U23 E13	9U12 E13	
3U24 F13	9U14 F13	
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3U27 G3	9U23 F9	
3U28 B10	9U24 E13	
3U29 C8	9U25 E13	
3U30 F12	9U27 D12	
3U31 F12	9U28 D12	
3U32 C12	9U29 C10	
3U33 B11	9U30 H12	
3U34 F14	9U32 H12	
3U38 E14	9U99 A9	
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3U40 E14	I401 A5	
3U41 F14	I403 C1	
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3U45 G6	I405 E4	
3U46 F6	I406 E6	
3U47 H3	I407 C7	
3U48 D2	I408 D7	
3U50 E3	I409 D8	
3U51 F3	I410 D9	
3U52 E5	I411 C9	
3U55 K6	I412 E9	
3U56 I4	I413 E9	
3U57 C13	I414 D10	
3U58 E3	I420 E13	
3U61 E4	I421 E14	
3U64 F4	I422 F14	
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3U68 F3	I424 G11	
3U67 G1	I425 F11	
3U69 G4	I432 I5	

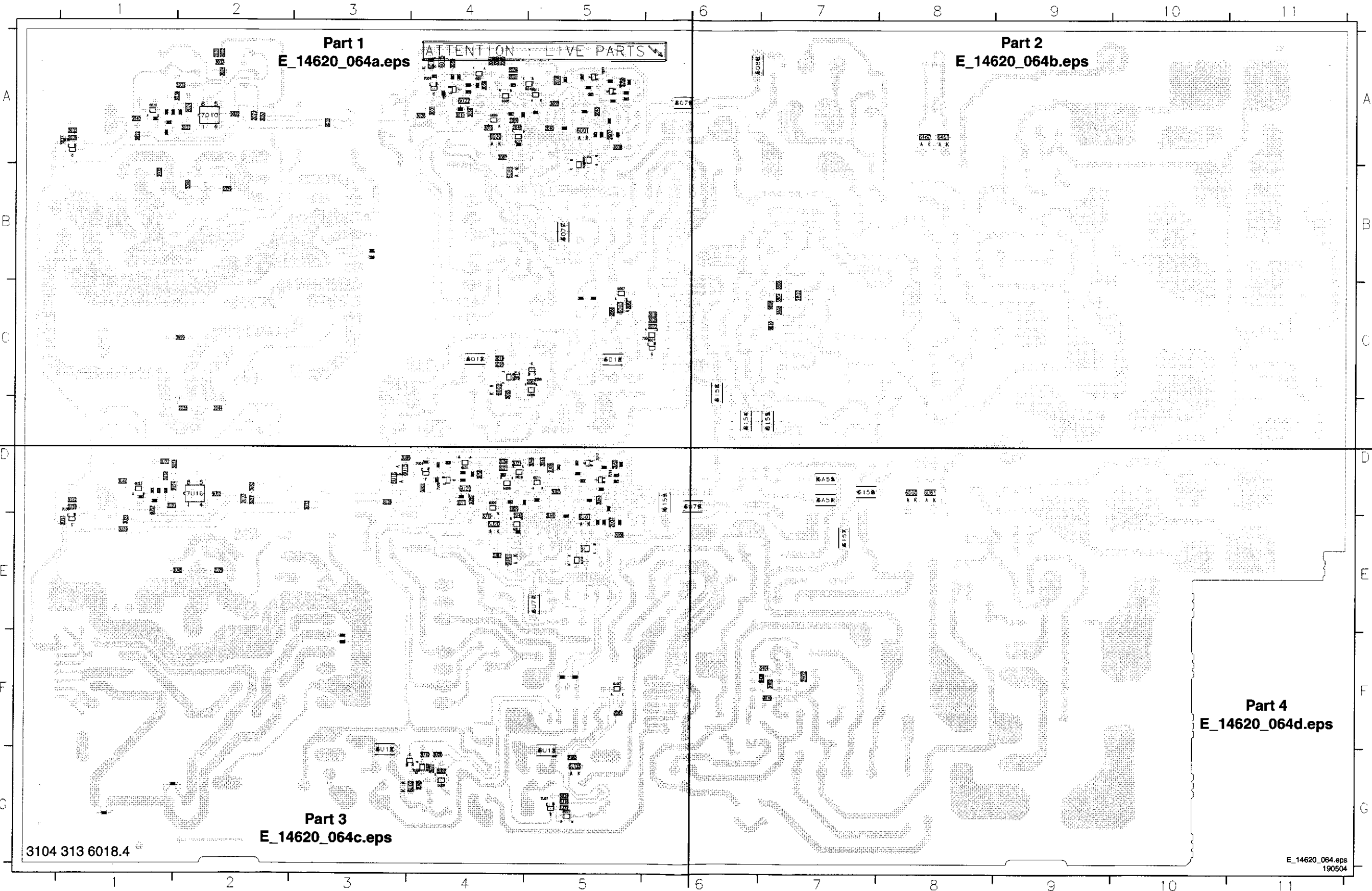
Layout PSU (42") (Top Side)

1000 B1	1400 B1	1U07 F10	2014 A9	2407 B4	2815 B4	2D09 D2	2U03 E7	3000 A6	3404 B3	3D05 E3	3U26 D10	5015 B7	5804 C5	5U07 E6	6021 B10	6U78 E7	9001 A1	9090 A10	9813 C6	9U05 G3	9U58 E7	9U72 B7	9U86 B9
1001 A2	1401 A5	1U09 E10	2017 B7	2408 C3	2816 B6	2D10 E4	2U04 D7	3014 C7	3405 B3	3D50 G2	3U50 E7	5016 B7	5891 F11	5U08 E6	6044 D10	7001 A7	9003 B4	9091 A9	9814 B6	9U06 E2	9U59 E5	9U73 B7	9U87 B9
1009 B10	1402 A3	1U10 G10	2020 C11	2409 B1	2817 A6	2H03 F5	2U05 D7	3015 C6	3406 D5	3D51 G4	3U53 D6	5017 A5	5892 F11	5U09 E8	6078 B7	7002 A9	9004 B11	9092 B8	9808 F6	9U07 E3	9U60 D4	9U74 D7	9U88 F3
1010 C10	1403 A3	1U11 G4	2022 B11	2410 B4	2892 F10	2H04 F5	2U10 D8	3017 D8	3407 D6	3H00 E5	3U58 E7	5025 B10	5893 F11	5U10 E8	6506 B4	7005 D7	9005 D2	9093 A8	9811 F6	9U08 E2	9U61 D5	9U76 E8	
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1303 E11	1B06 A4	2002 B8	2033 A11	2412 B1	2D00 D2	2H08 F5	2U12 G9	3026 A10	3451 C3	3H05 G4	3U52 B9	5027 C9	5D01 E3	5U15 E7	6808 B5	7805 B5	9007 B3	9095 B9	9813 E6	9U10 F4	9U63 B11	9U78 E9	
1304 B11	1C05 D4	2003 B7	2038 B10	2503 A5	2D01 E4	2H09 G5	2U13 G8	3050 A7	3800 B5	3H07 E5	3U54 C7	5028 C10	5D02 F3	5U16 E7	6809 B5	7806 D5	9008 A1	9096 C7	9814 E6	9U50 E3	9U65 B11	9U79 E8	
1305 A4	1D00 D1	2004 A8	2400 B1	2803 C4	2D03 D4	2H10 G6	2U14 D8	3053 A7	3803 C5	3H10 E5	3U55 D7	5005 D7	5D03 F2	5U17 D6	6B91 G10	7H05 F6	9009 A5	9097 D6	9815 F6	9U51 E9	9U66 D10	9U80 E7	
1306 A5	1D02 E3	2005 A8	2401 B4	2804 C5	2D04 E4	2H15 E5	2U17 F7	3058 A7	3805 C5	3U00 D5	3U57 A6	5007 A6	5H04 F5	5U25 E10	6B93 G11	7H06 G6	9010 B11	9098 C4	9816 G5	9U52 E5	9U67 A7	9U81 E7	
1307 D5	1D03 E3	2010 A8	2403 A3	2806 B5	2D05 D4	2H16 E6	2U22 F11	3400 A1	3807 B5	3U14 F7	3U58 A6	5008 A6	5U01 F7	5U26 E10	6H07 G5	7U01 D7	9011 C3	9099 B3	9817 C1	9U53 F5	9U68 B7	9U82 F7	
1308 C1	1D50 E4	2011 C7	2404 A3	2808 C5	2D06 E4	2H17 E6	2U25 D11	3401 C1	3810 B5	3U15 G7	3U59 B8	5009 B8	5U02 F9	5U40 F7	6H08 E5	7U02 D9	9080 A8	9808 C6	9801 E1	9U54 G7	9U69 A8	9U83 E7	
1309 B11	1M02 F11	2012 D9	2405 A3	2809 D4	2D07 E4	2U00 E9	2U33 D11	3402 D1	3D00 D1	3U17 G8	3U51 B7	5010 B7	5U04 F7	5U41 G9	6H09 E5	7U05 G7	9082 C4	9811 C5	9803 E4	9U55 D8	9U70 A8	9U84 G4	
1320 E11	1U01 D3	2013 C7	2406 B3	2810 D5	2D08 E4	2U02 E8	2U38 E10	3403 C1	3D04 E3	3U18 G8	3U53 D8	5013 D8	5U05 G8	6014 A11	6U21 E10	7U06 G9	9088 A10	9812 C5	9804 E8	9U56 F10	9U71 B7	9U85 E6	



Layout PSU (42") (Overview Bottom Side)

2006 A5	2026 A5	2040 A5	2063 C5	2B83 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	3992 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	6D80 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 C6	6158 C6	6U03 G5	6U13 F5	6U77 E4	7030 A1	9085 A1	
2021 A4	2034 A4	2060 C5	2602 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	



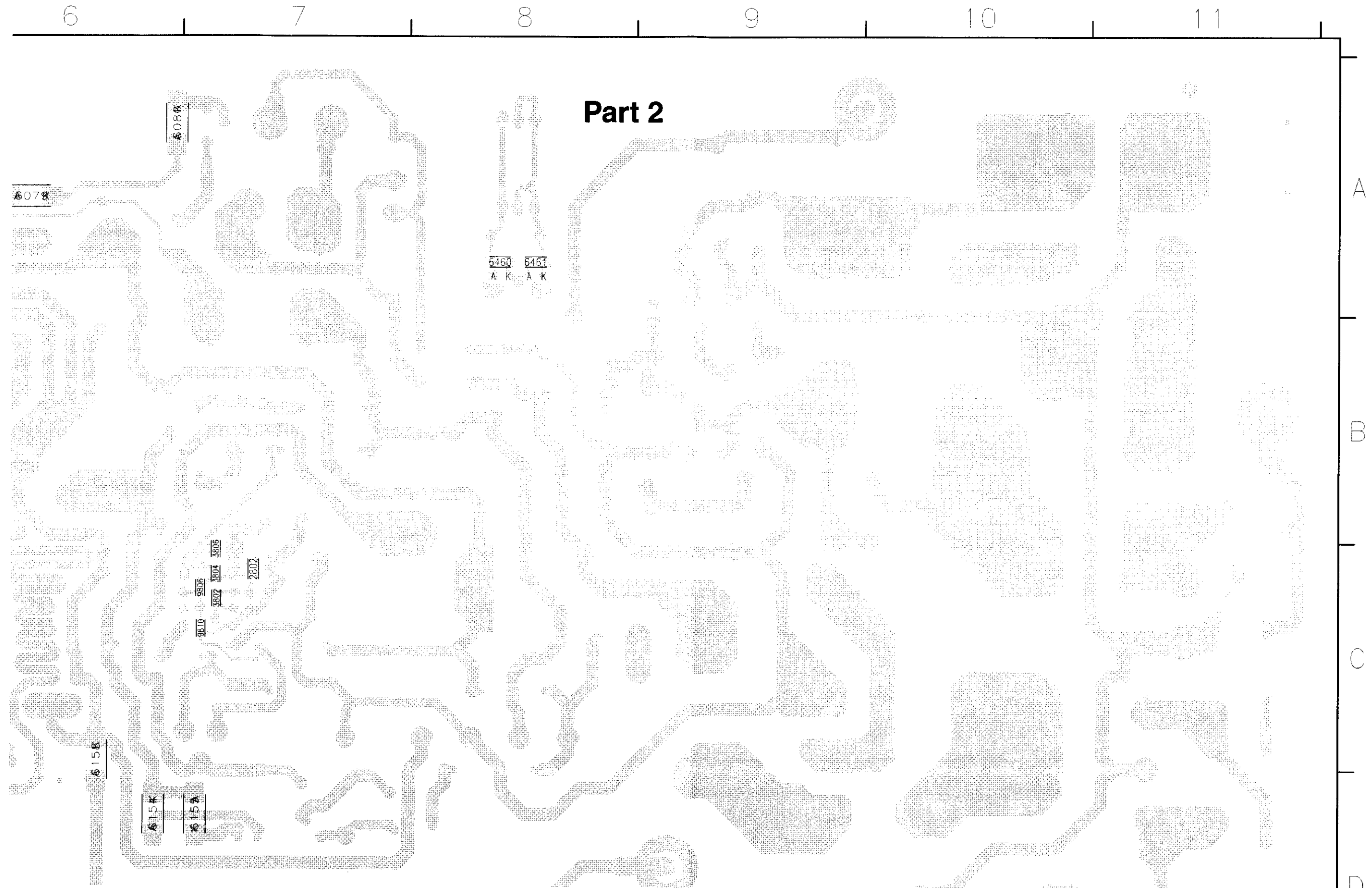
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ATTENTION : LIVE PARTS ⚡

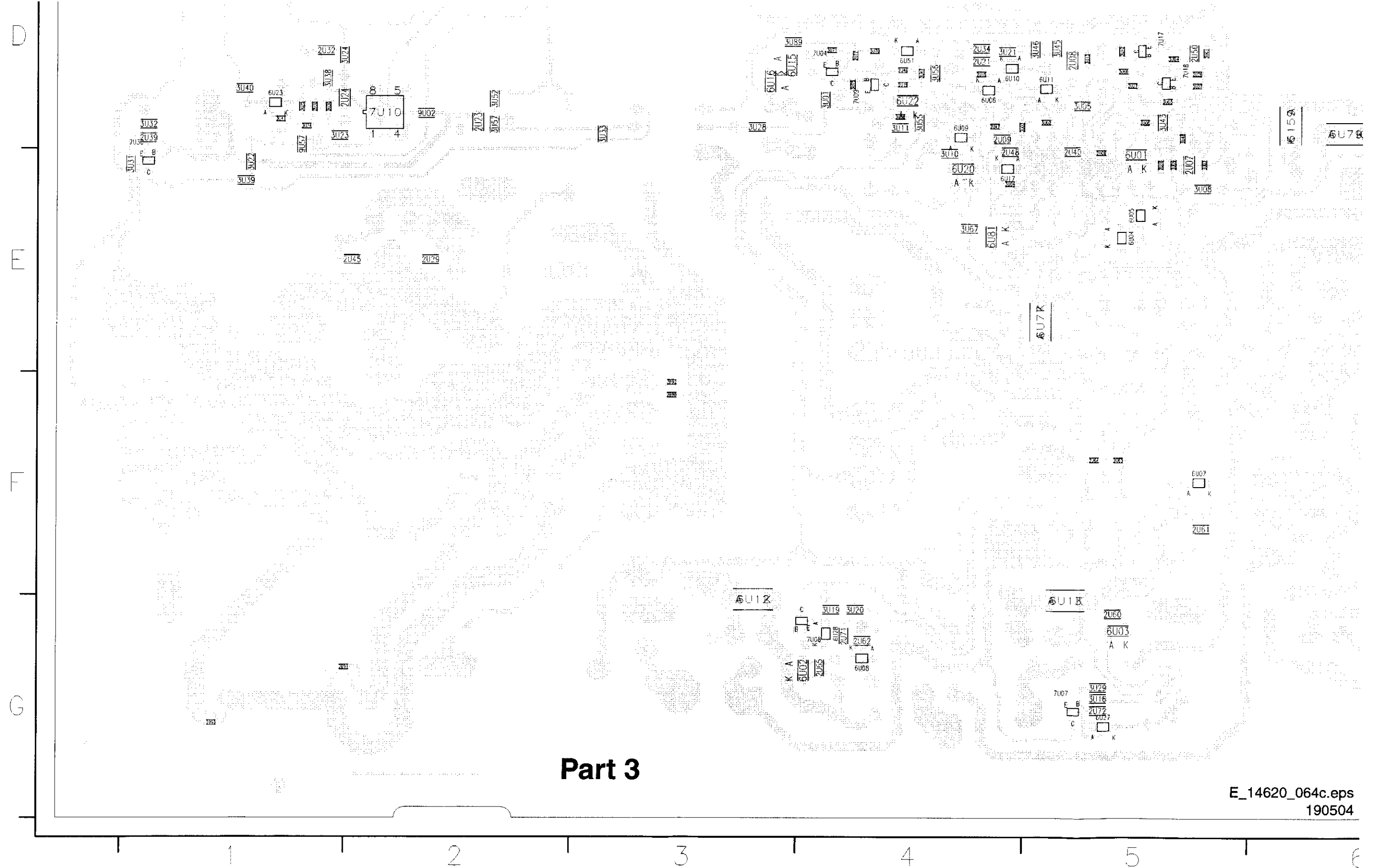
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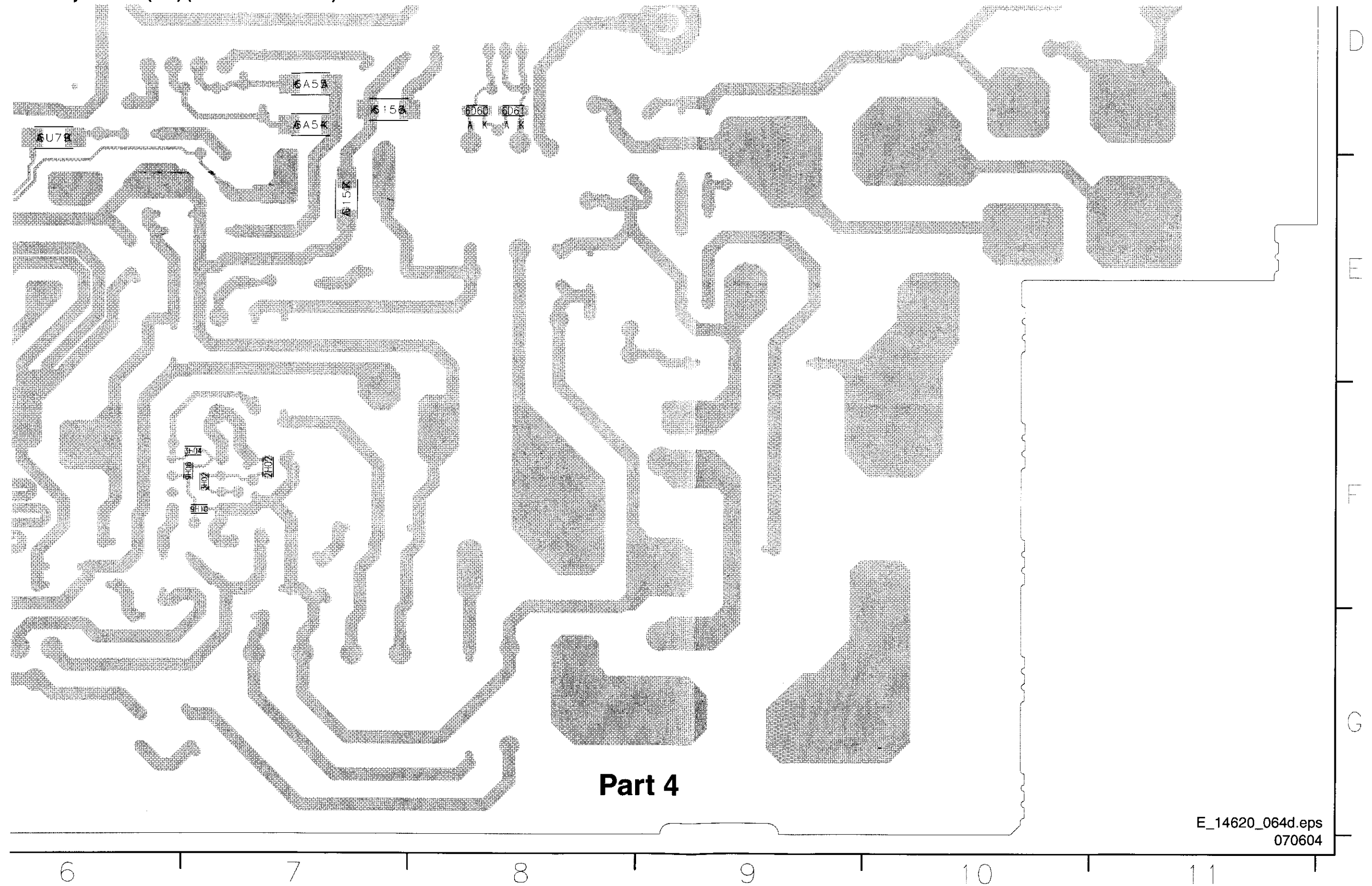
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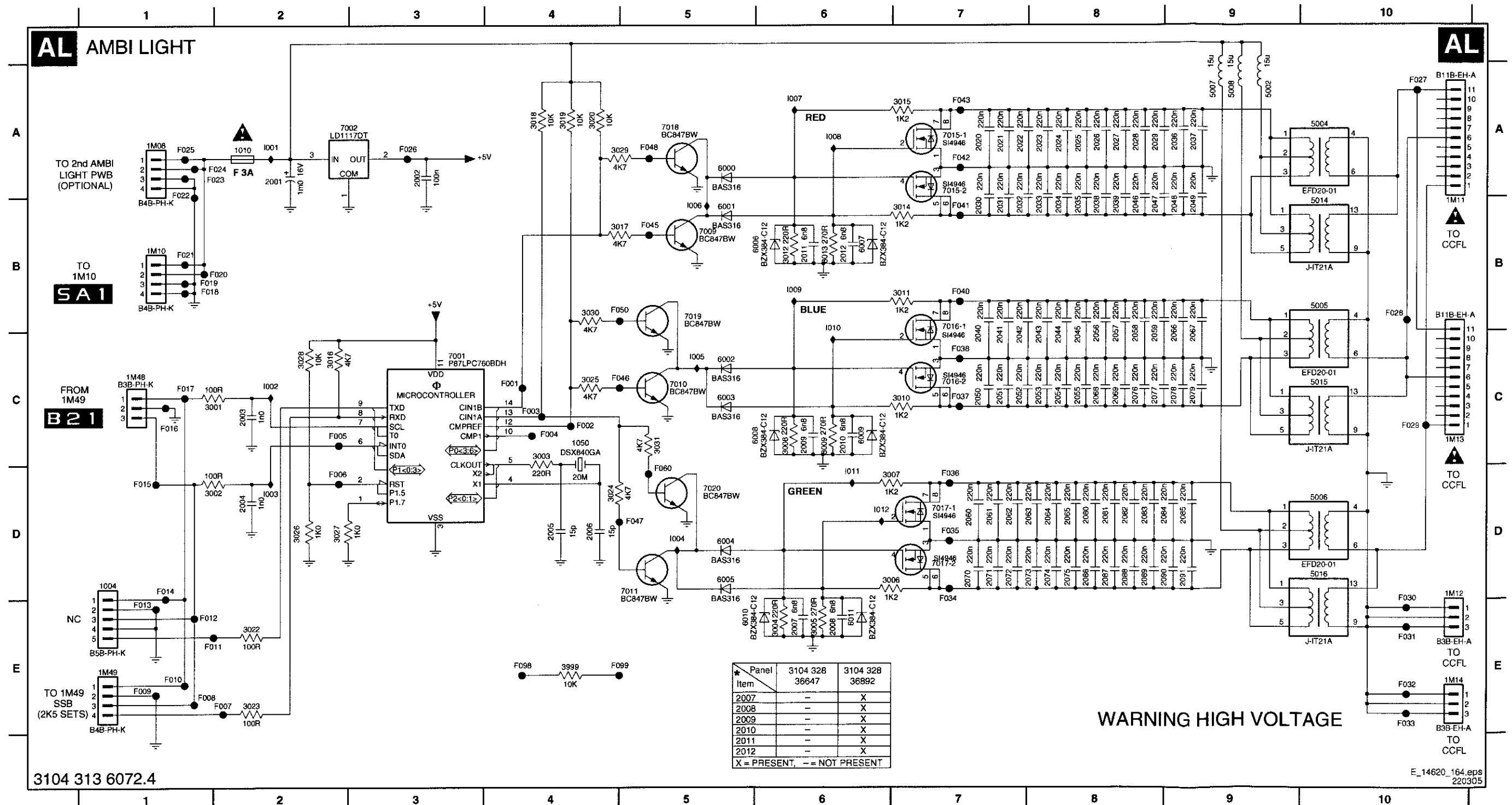


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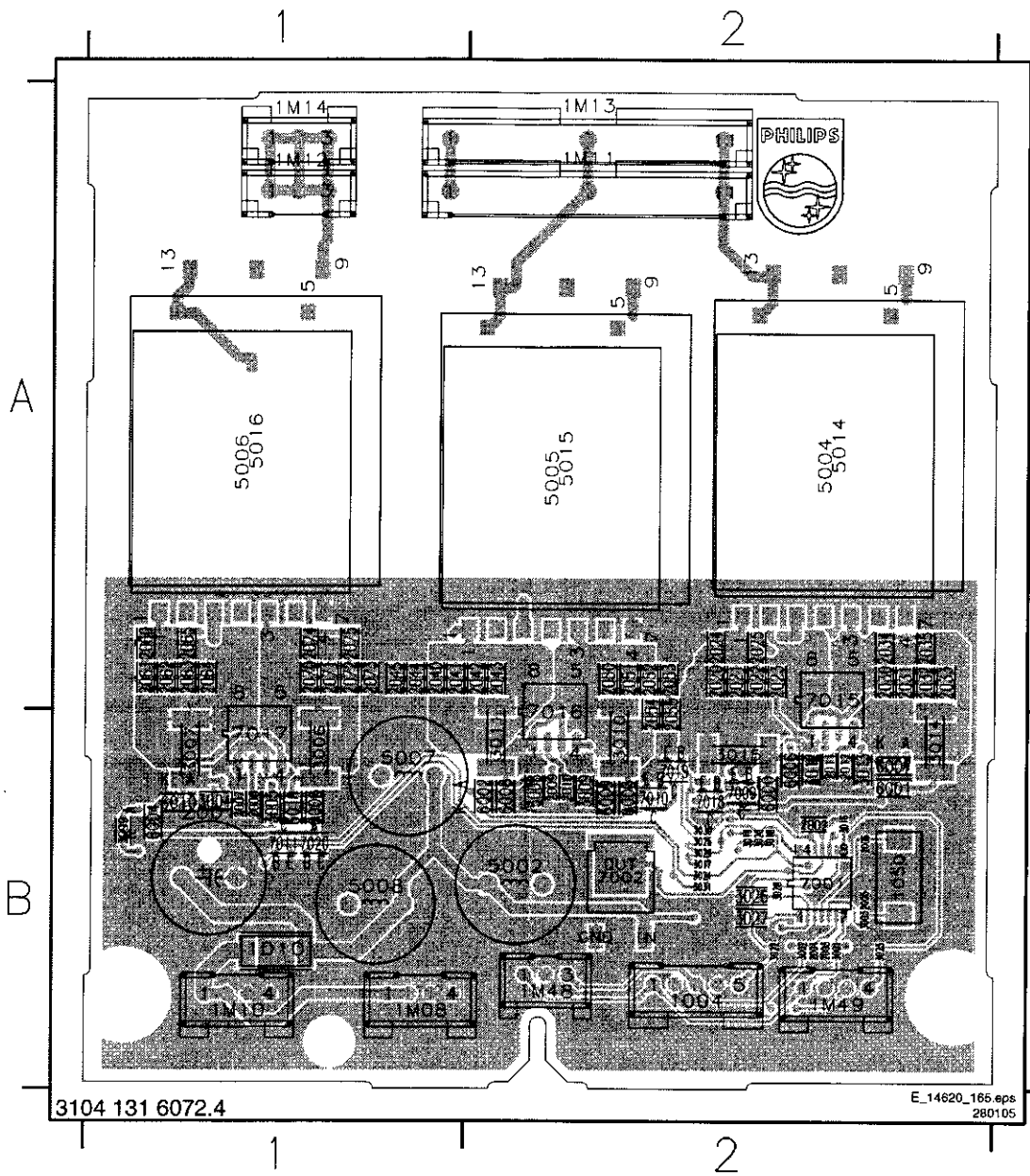


Ambi Light Panel

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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	3032 E2	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	3022 E2	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	

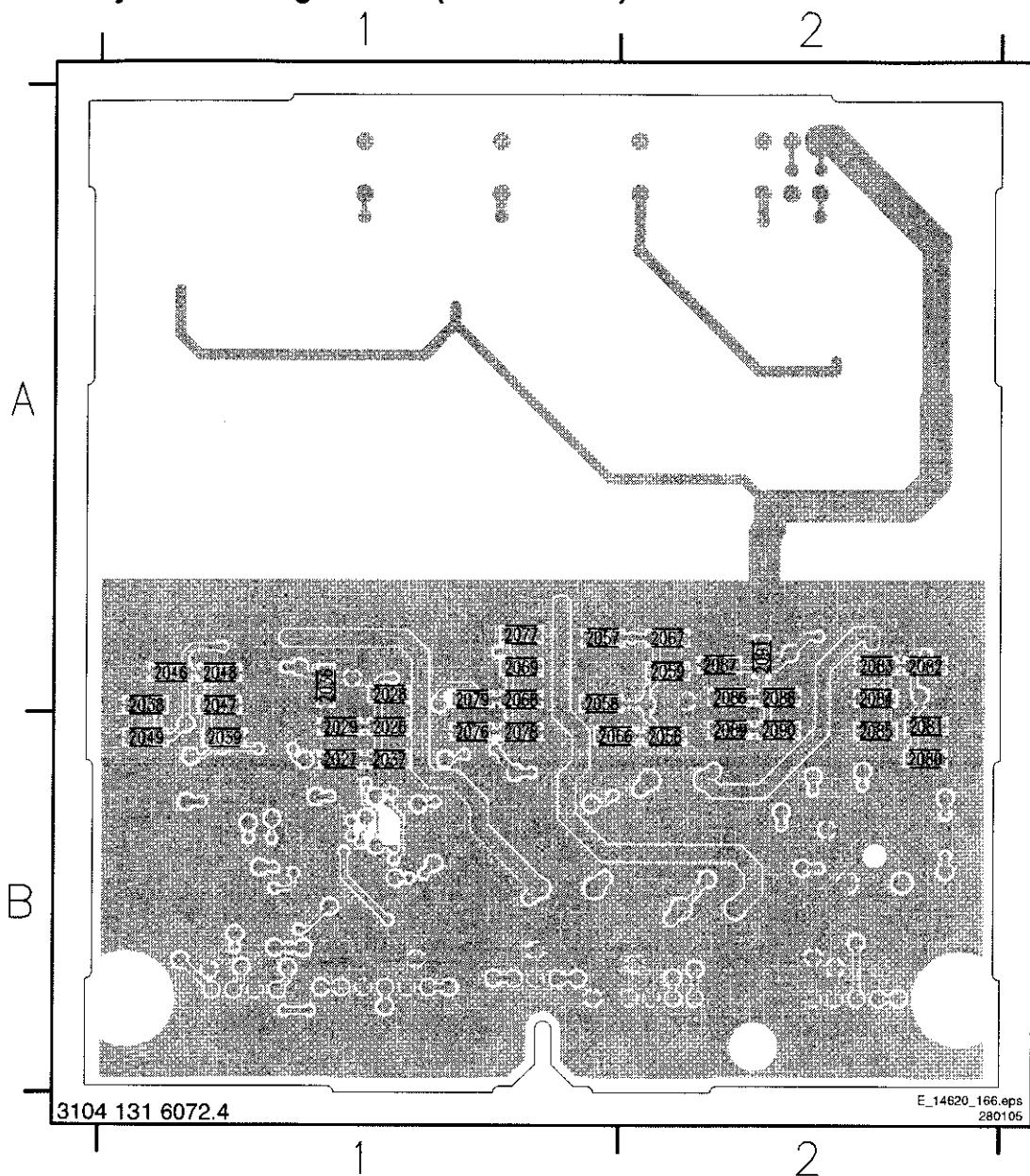


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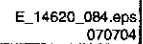
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1M11	A2	3016	B2
1M12	A1	3017	B2
1M13	A2	3018	B2
1M14	A1	3019	B2
1M48	B2	3020	B2
1M49	B2	3022	B2
2001	B1	3023	B2
2002	B2	3024	B2
2003	B2	3025	B2
2004	B2	3026	B2
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2006	B2	3028	B2
2007	B1	3029	B2
2008	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
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2031	A2	6000	B2
2032	A2	6001	B2
2033	A2	6002	B2
2034	A2	6003	B2
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2051	A2	7001	B2
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2063	A1	7018	B2
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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	B1
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

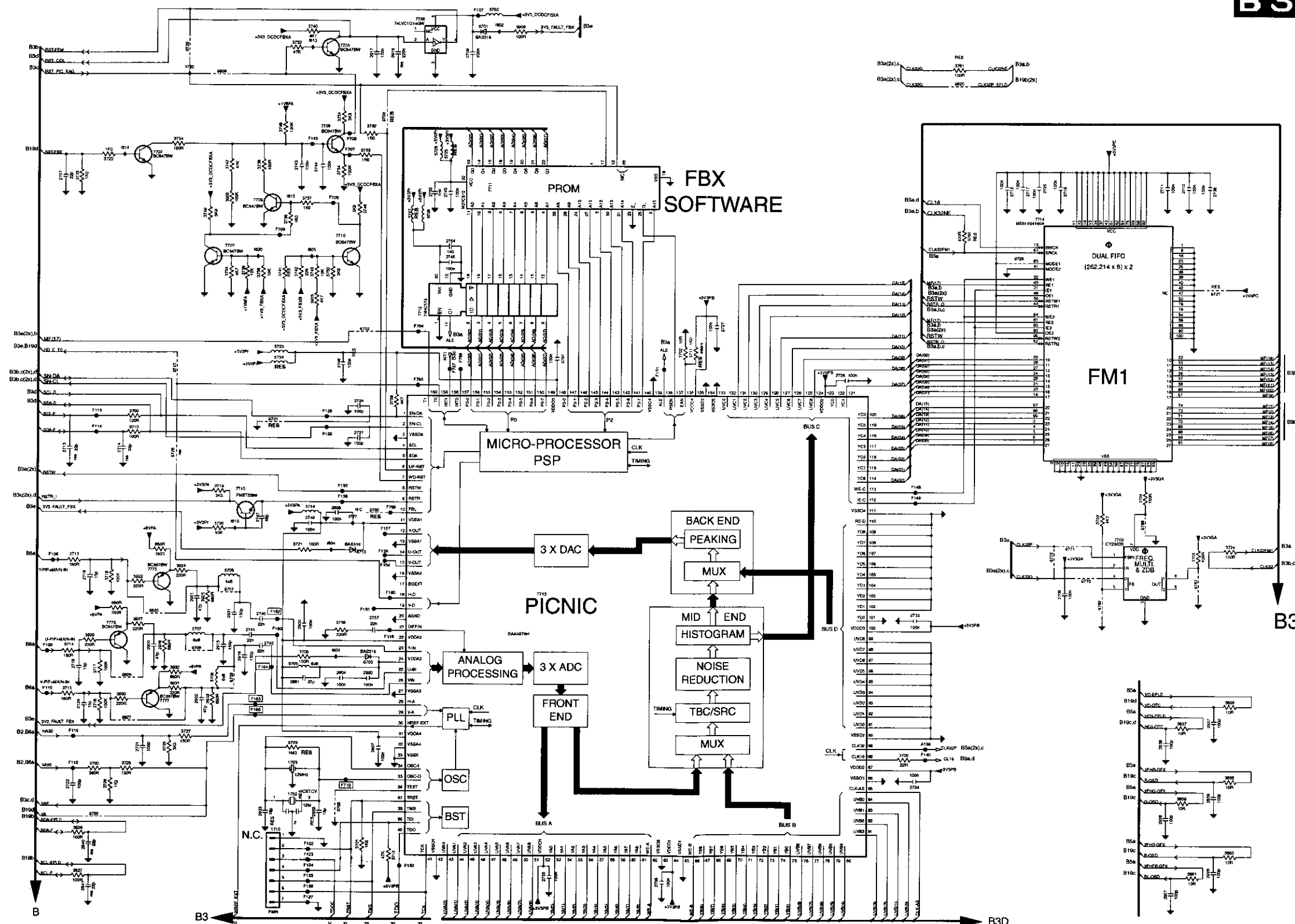
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B3A PICNIC

B3A



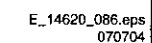
* SEE MAPPING I1 ON B3c

** SEE MAPPING G1 ON B3c

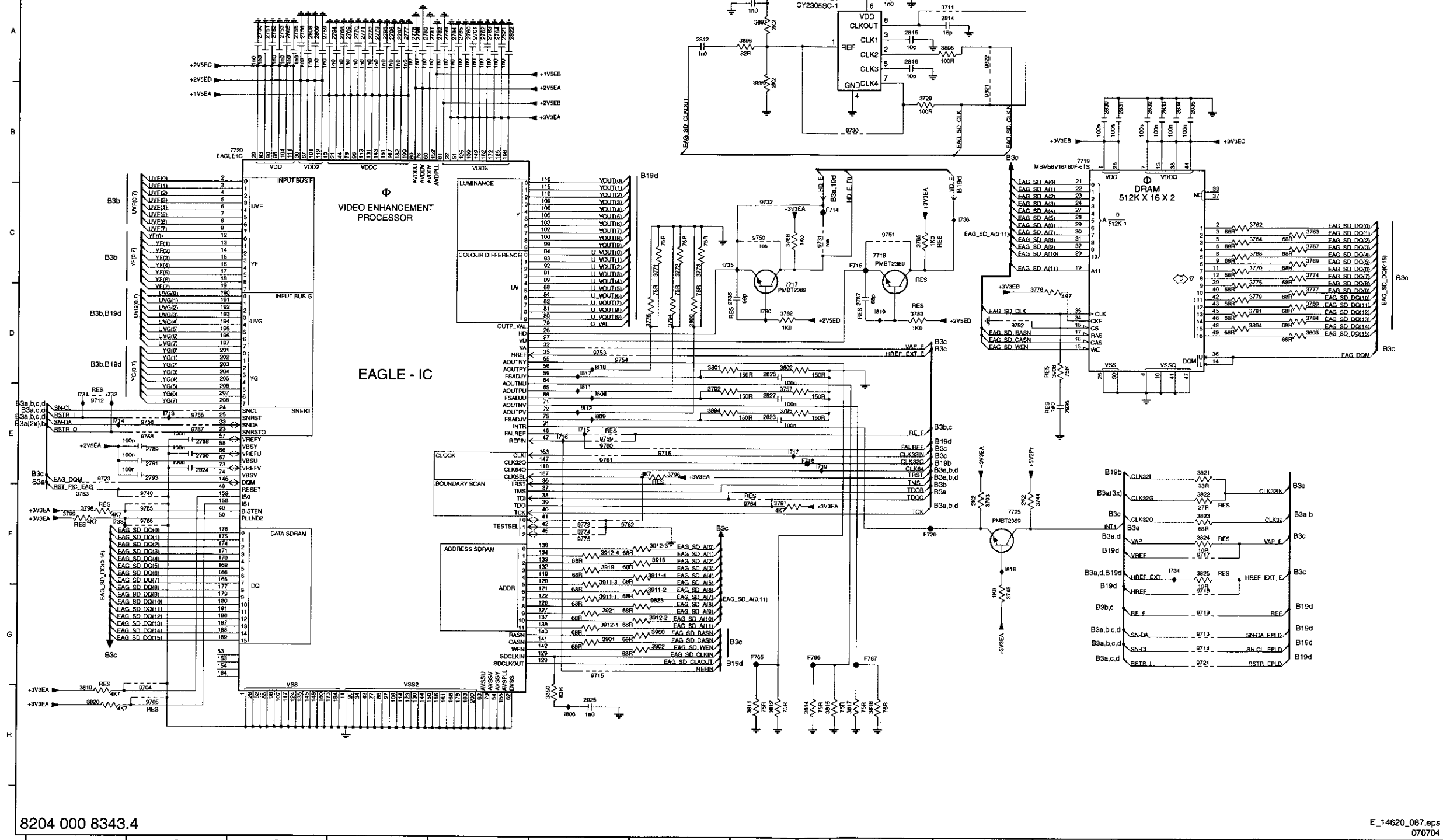
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B 3 B FEM
FALCONIC EMBEDDED MEMORY



B3C EAGLE

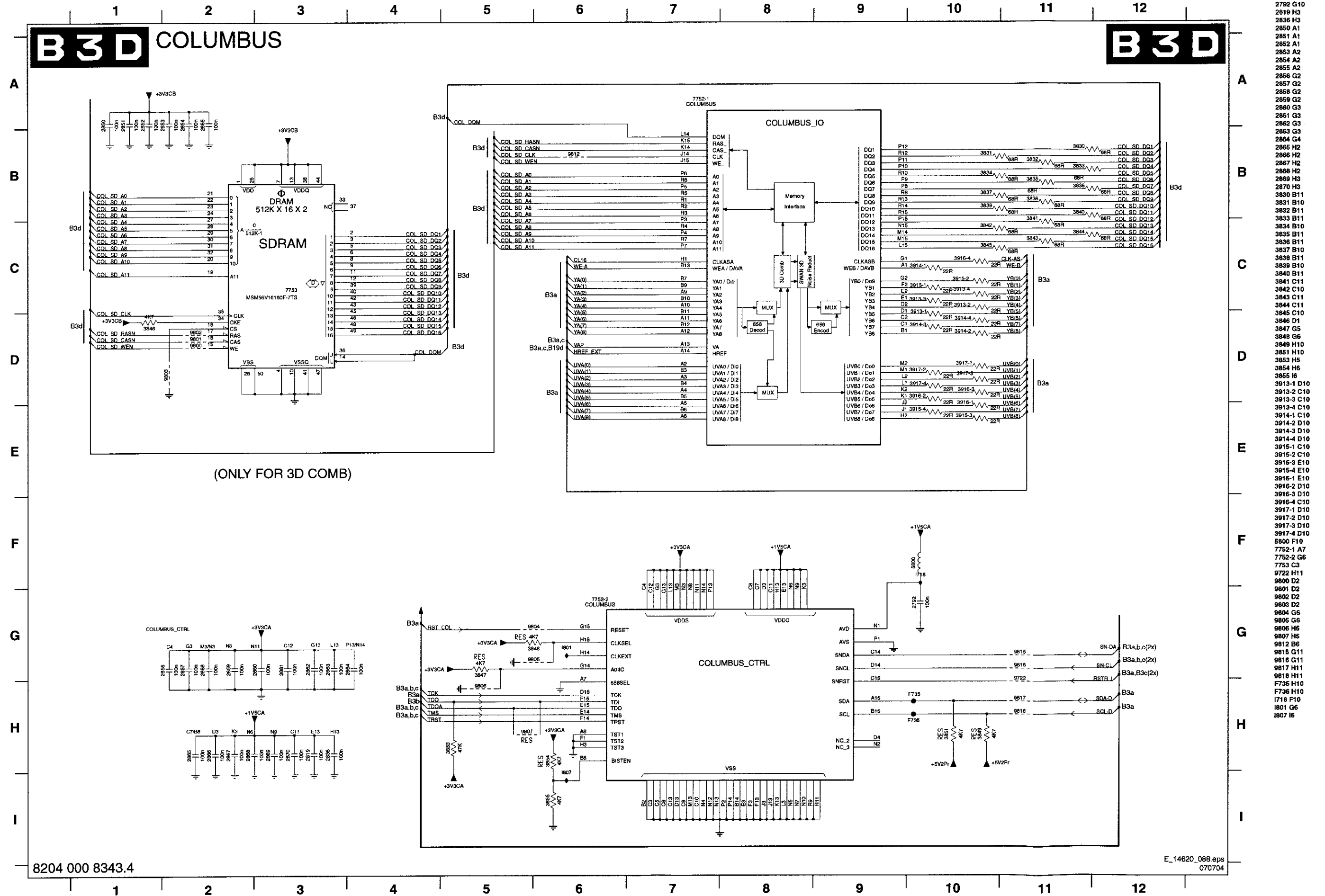
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	2755 A3	3812 H8	1736 C10
	2756 A3	3814 H8	1806 E6
	2758 A9	3815 H8	1808 E6
	2759 A3	3817 H8	1809 E6
	2760 A5	3818 H9	1811 E6
	2761 A5	3819 H1	1812 E6
	2762 A5	3820 H1	1816 F10
	2763 A5	3821 E12	1817 D6
	2764 A5	3822 F12	1818 D6
	2765 A8	3823 F12	1819 D8
	2766 A4	3825 F12	
	2768 A4	3825 F12	
	2770 A4	3850 H6	
	2771 A4	3854 E7	
	2772 A4	3855 A8	
	2773 A4	3856 A8	
	2777 A4	3857 A8	
	2778 A4	3858 A10	
	2780 A4	3900 G7	
	2781 A4	3901 G6	
	2782 A5	3902 G7	
	2784 A5	3906 D11	
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	2786 D7	3911-2 G7	
	2787 D9	3911-3 F6	
	2788 D2	3911-3 G7	
	2789 E2	3912-1 G6	
	2790 E2	3912-2 G7	
	2791 E2	3912-3 F7	
	2793 E3	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	7724 H2	
	2814 A10	7705 E12	
	2815 A9	7711 A10	
	2816 A9	7712 E1	
	2821 A5	7713 G12	
	2822 A5	7714 G12	
	2823 E8	7715 G6	
	2824 E2	7716 E7	
	2825 D8	7717 F12	
	2827 E8	7718 G12	
	2830 B11	7719 G12	
	2831 B11	7721 G12	
	2832 B12	7723 E1	
	2833 B12	7730 B9	
	2834 B12	7732 C8	
	2835 B12	7732 C8	
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	2936 E11	9750 C8	
	3729 B9	9751 C9	
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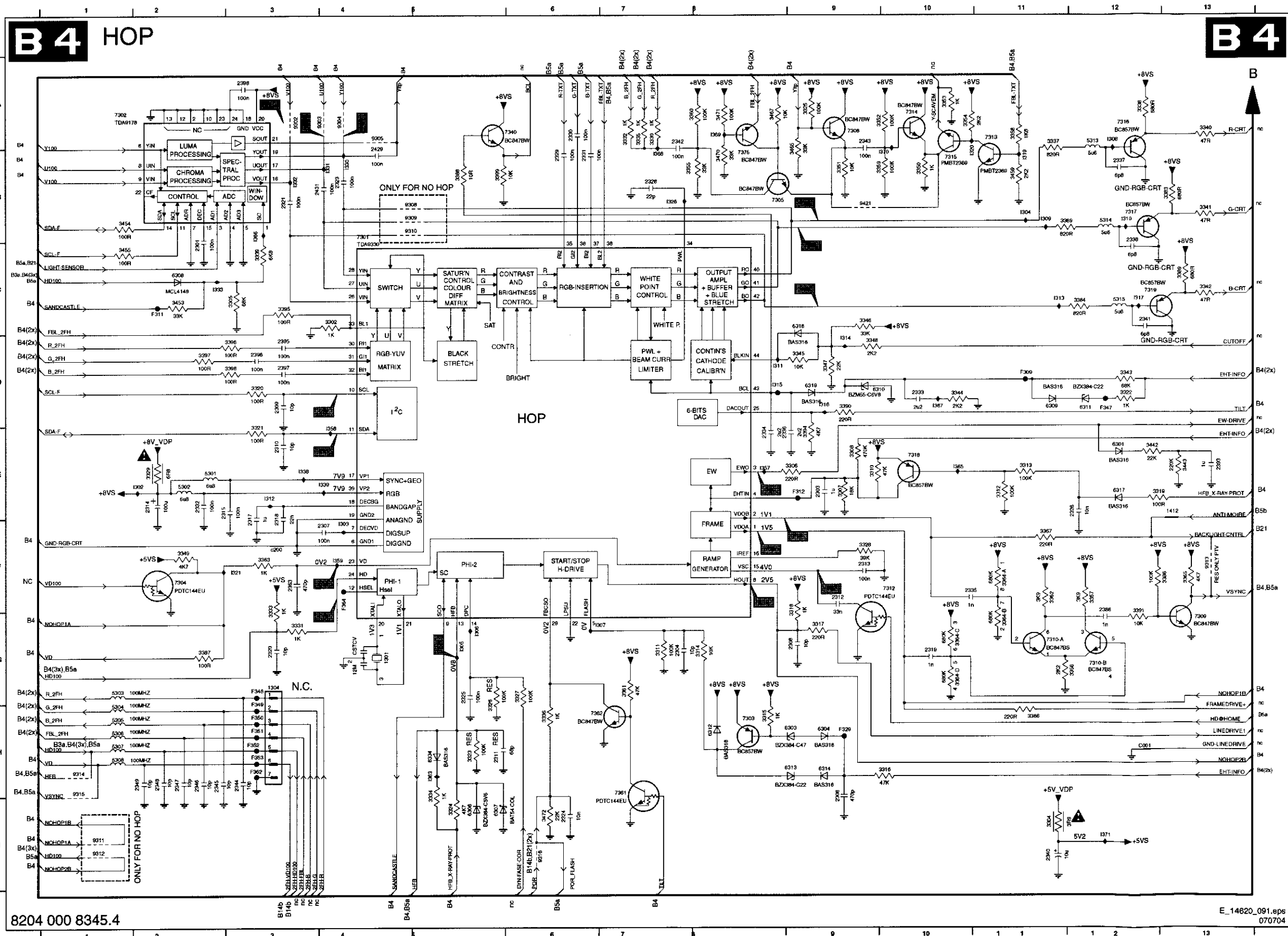
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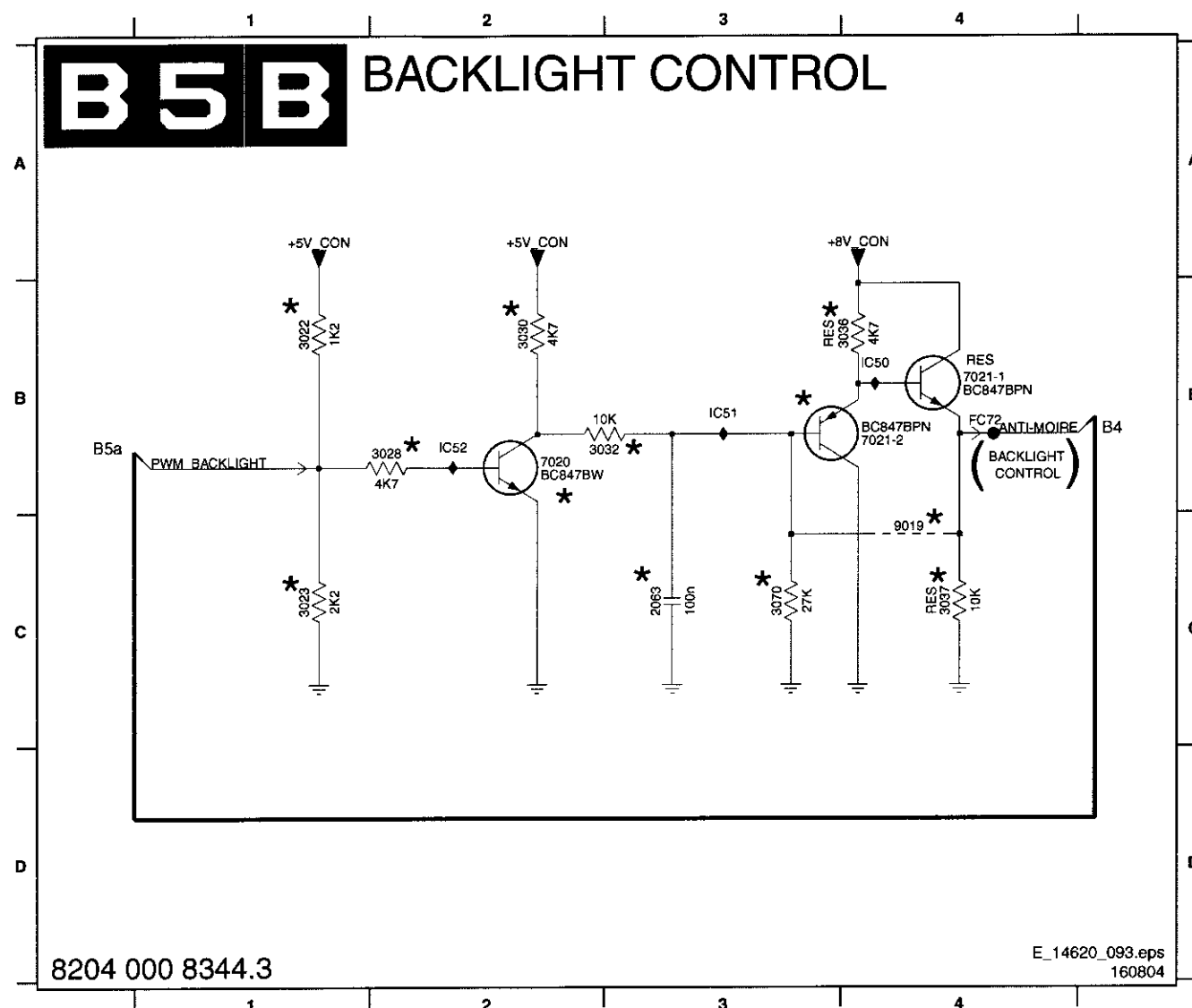
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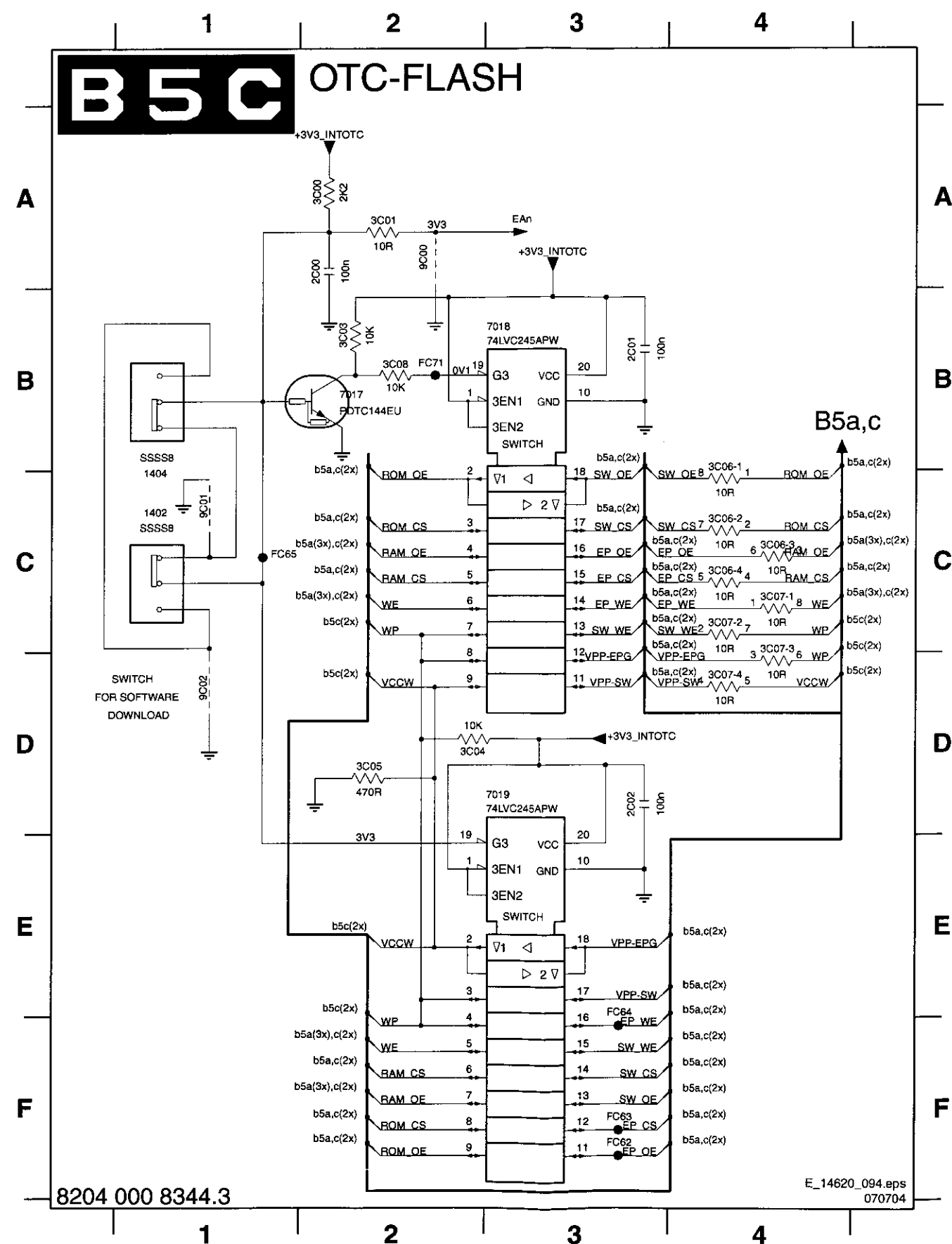
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	2003 J4	3033 C3	3080 A2	9023 B3	IC48 E3
A	2004 J4	3034-1 G7	3081 A4	9024 A1	
	2005 J3	3034-2 H7	3082-1 A13	9025 C3	
	2006 J3	3034-3 H7	3082-2 C13	FC01 A9	
	2007 J3	3034-4 H7	3082-3 B13	FC02 A7	
	2008 H4	3035-1 H7	3082-4 C13	FC03 C7	
	2009 I8	3035-2 H7	3083-1 B19	FC04 C8	
	2010 I9	3035-3 H7	3083-2 C13	FC05 C10	
	2011 I9	3035-4 H7	3083-3 B13	FC06 C7	
	2012 I9	3036 B1	3083-4 C13	FC07 C8	
	2013 F11	3039 B2	3084 D8	FC08 C7	
B	2014 I4	3040 I1	3085-1 B11	FC09 C7	
	2016 F13	3041 I1	3085-2 C11	FC10 C7	
	2017 G12	3042 J1	3086-3 C11	FC11 D8	
	2018 G3	3045 J11	3086-4 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	
C	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	
D	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	
E	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 H1	FC44 C10	
	2068 J2	3055-2 C10	3C10 I1	FC45 H8	
F	2070 B2	3055-3 B10	3C11 J1	FC46 H9	
	2071 B1	3056-4 C10	3C12 J7	FC47 J6	
	2072 B1	3066-1 B10	5000 F7	FC48 G2	
	2073 C3	3066-2 C10	5001 F7	FC49 G3	
	2074 D4	3066-3 B10	5003 F8	FC50 E8	
	2075 F8	3066-4 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	
G	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	
H	3009 A1	3064-4 E4	7010 C3	IC03 B2	
	3010 E8	3065 G12	7011 G2	IC06 D1	
	3011 E2	3066 G12	7012 A12	IC07 E2	
	3012-1 I8	3067 H11	7013 H12	IC08 F1	
	3012-2 I8	3068 A2	7014 G13	IC11 G13	
	3012-3 I8	3069 E3	7015 I2	IC13 G11	
	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	
I	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 I6	
	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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	3029-4 B11	3078 D3	9016 C2	IC42 F12	

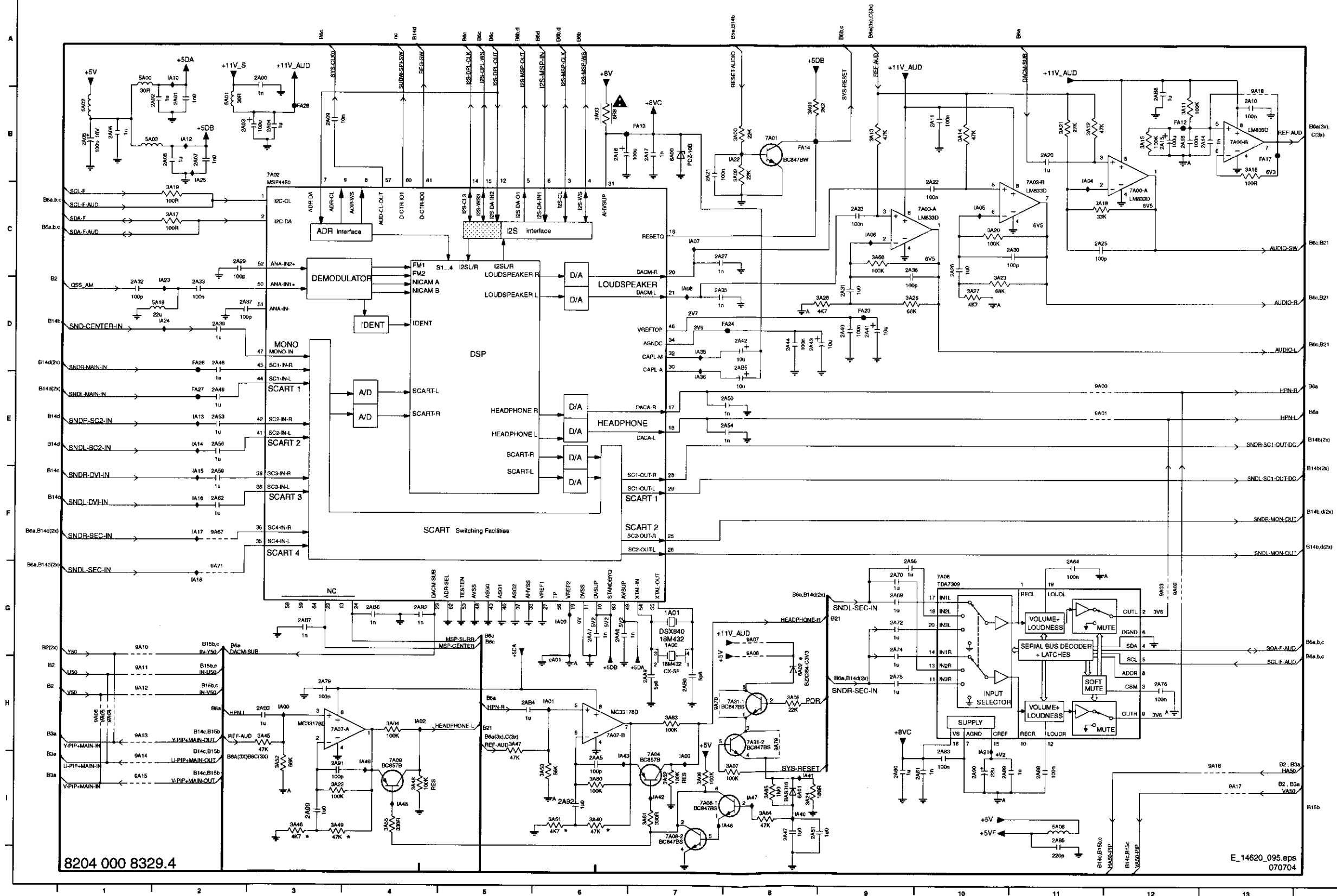
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3022 B1	3028 B2	3032 B2	3037 C4	7020 B2	7021-2 B4	FC72 B4	IC51 B3	



1402 C1	2C01 B3	3C01 A2	3C05 D2	3C06-3 C4	3C07-2 C4	3C08 B2	7019 D3	9C02 D1	FC64 E3
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



B 6 A AUDIO DEMODULATOR

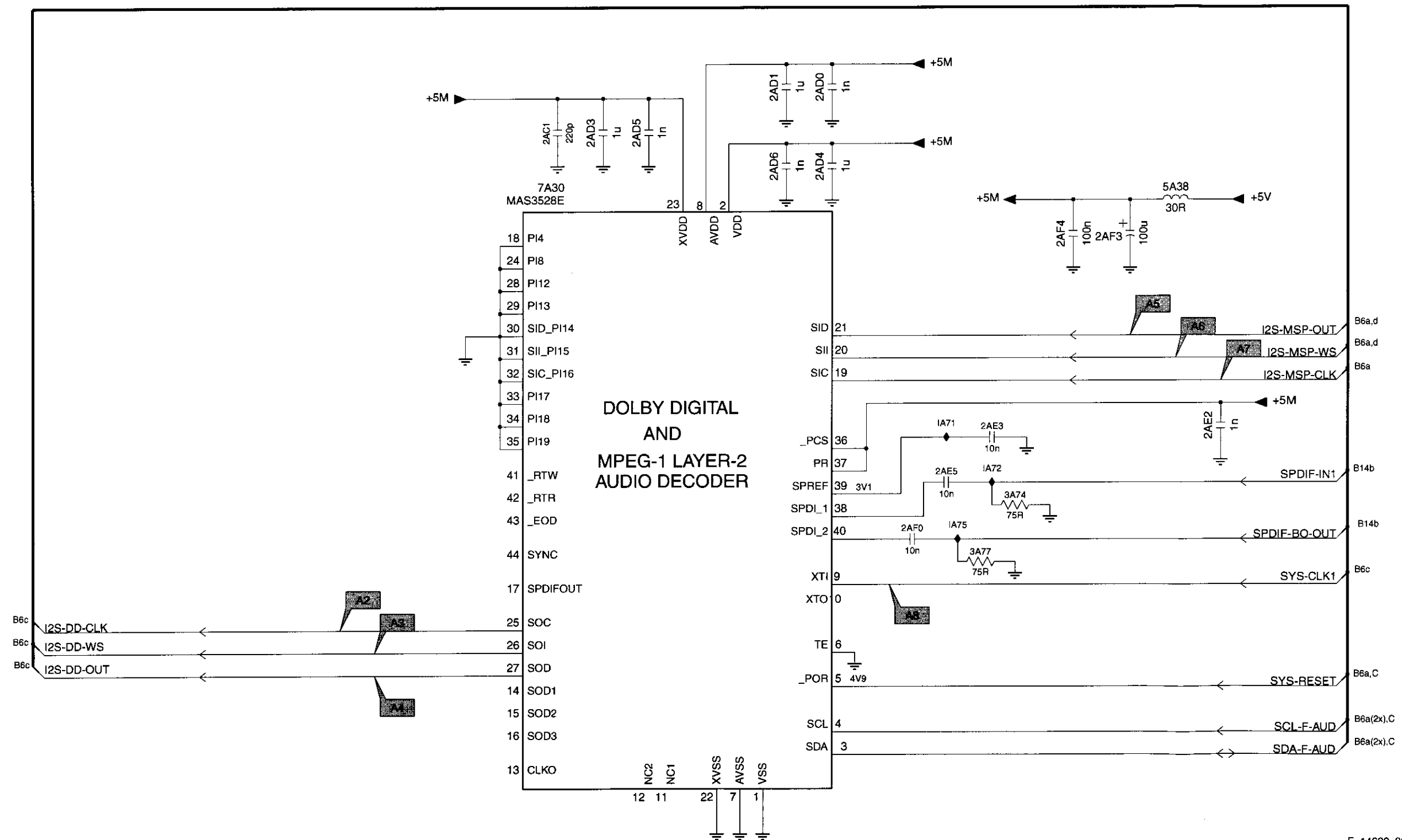


A	1A00 G7	3A1A B10	IA0E C9
	1A01 G7	3A1S B12	IA07 C7
	2A00 A3	3A1B B13	IA08 D7
	2A01 B2	3A17 C2	IA09 G6
	2A02 B1	3A1B C11	IA10 A2
	2A03 B2	3A19 C2	IA12 B2
	2A04 B3	3A20 C10	IA13 E2
	2A05 B1	3A21 B11	IA14 E2
	2A06 B1	3A22 I3	IA15 F2
	2A07 B2	3A23 D10	IA16 F2
B	2A08 B2	3A24 I8	IA17 F2
	2A09 B3	3A25 D9	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	IA25 D7
	2A18 B6	3A48 I4	IA26 E7
	2A20 B11	3A49 I3	IA40 I8
C	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	IA49 I6
	2A31 D9	3A64 I8	
	2A32 D1	3A65 I8	
D	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	
E	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	
F	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	
G	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	
	2A99 I3	9A14 I1	
	2AA5 I6	9A15 I1	
H	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	
I	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	IA06 H3	
	3A07 I8	IA01 H6	
	3A09 B8	IA02 H4	
	3A11 B12	IA03 I7	
J	3A12 B11	IA04 B11	
	3A13 B9	IA05 C10	

SSB: Dolby Digital Decoder

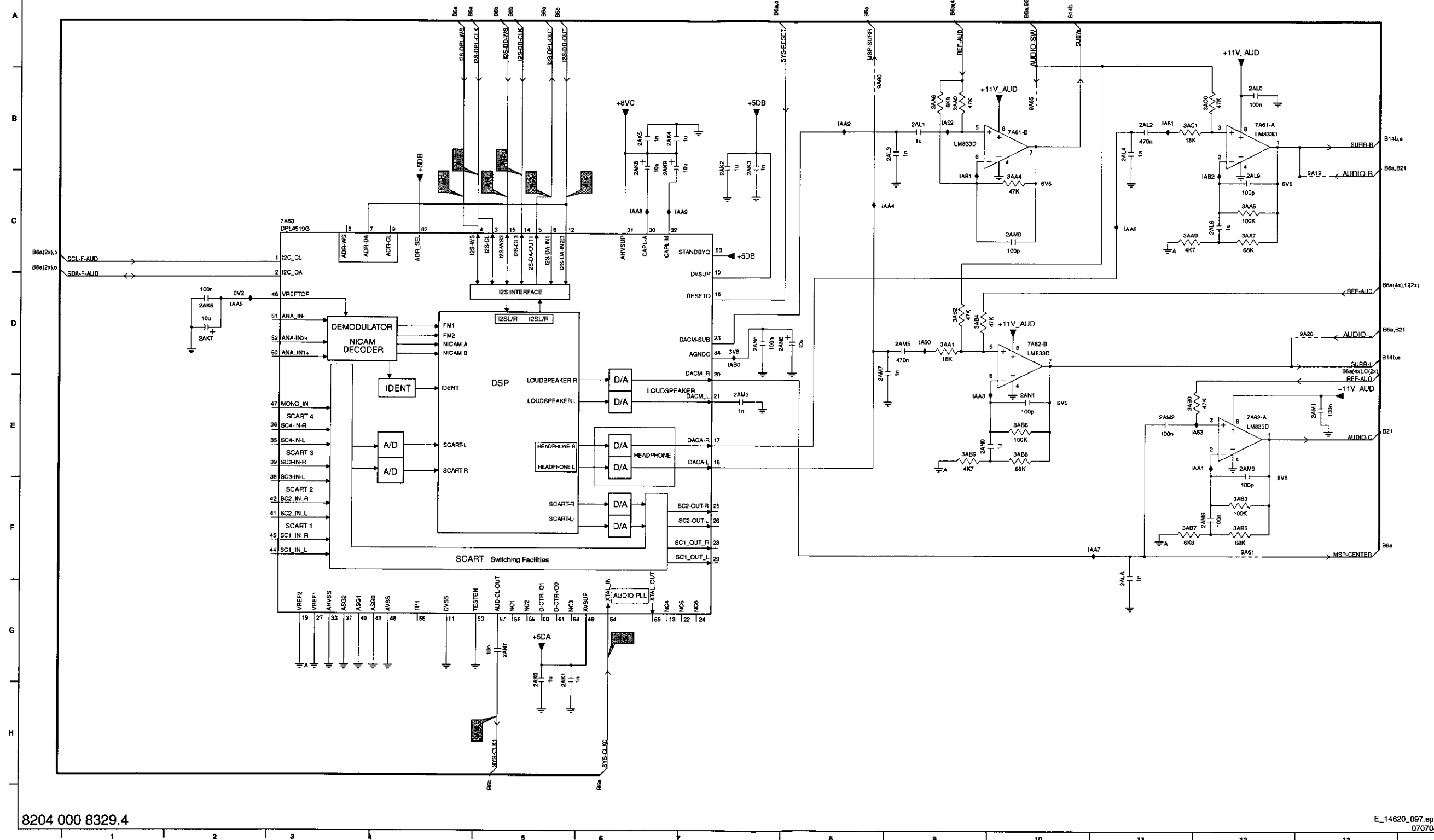
B6B

DOLBY DIGITAL DECODER

B6B

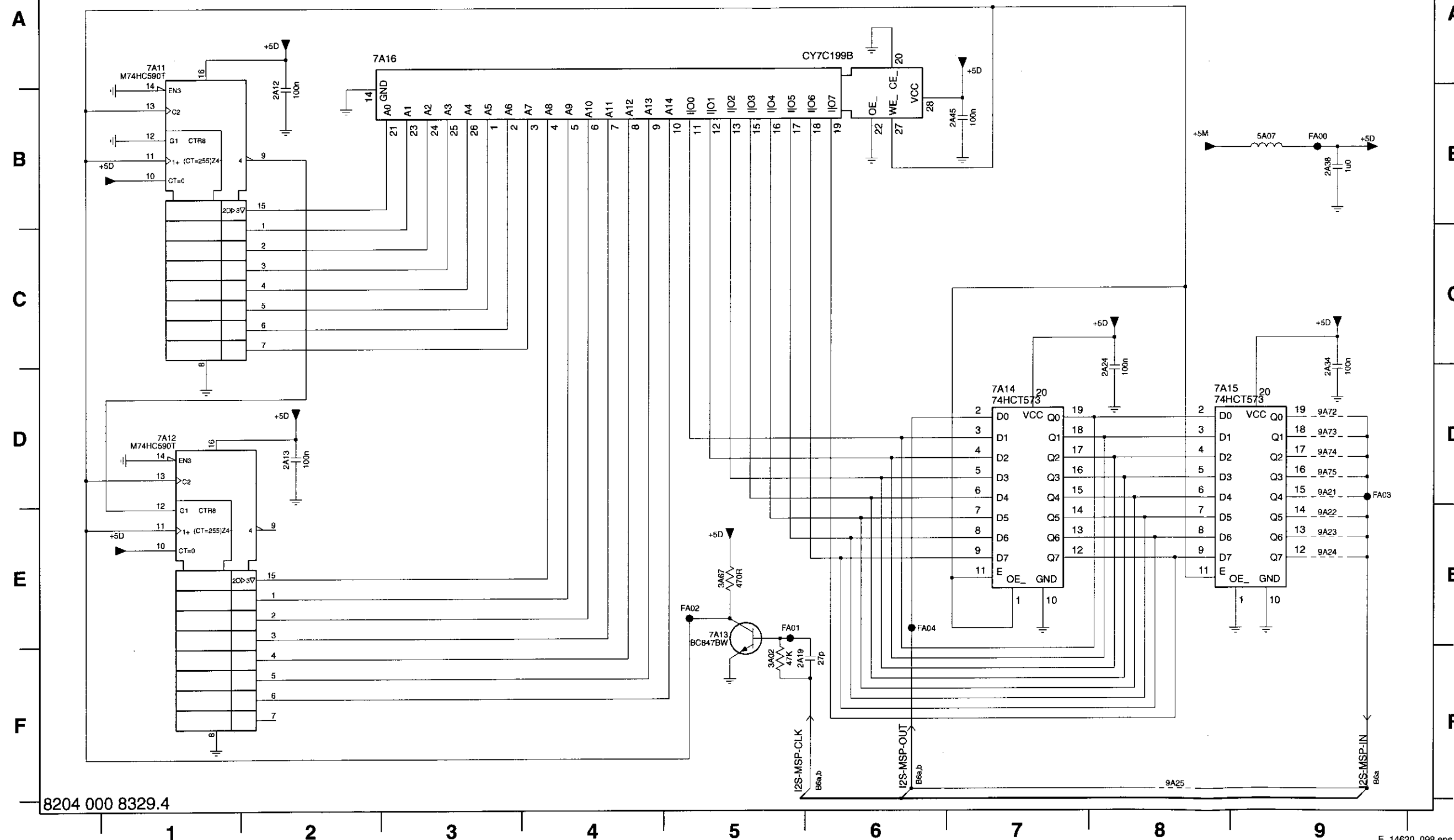
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2AD3 B4
2AD4 B6
2AD5 B5
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2AE5 D7
2AF0 E6
2AF3 C8
2AF4 C7
3A74 D7
3A77 E7
5A38 B8
7A30 B4
IA71 D7
IA72 D7
IA75 D7

SSB: Dolby Pro Logic Processor

B6C**DOLBY PRO LOGIC PROCESSOR****B6C**

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
2AL5 C12
2AL6 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 D6
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
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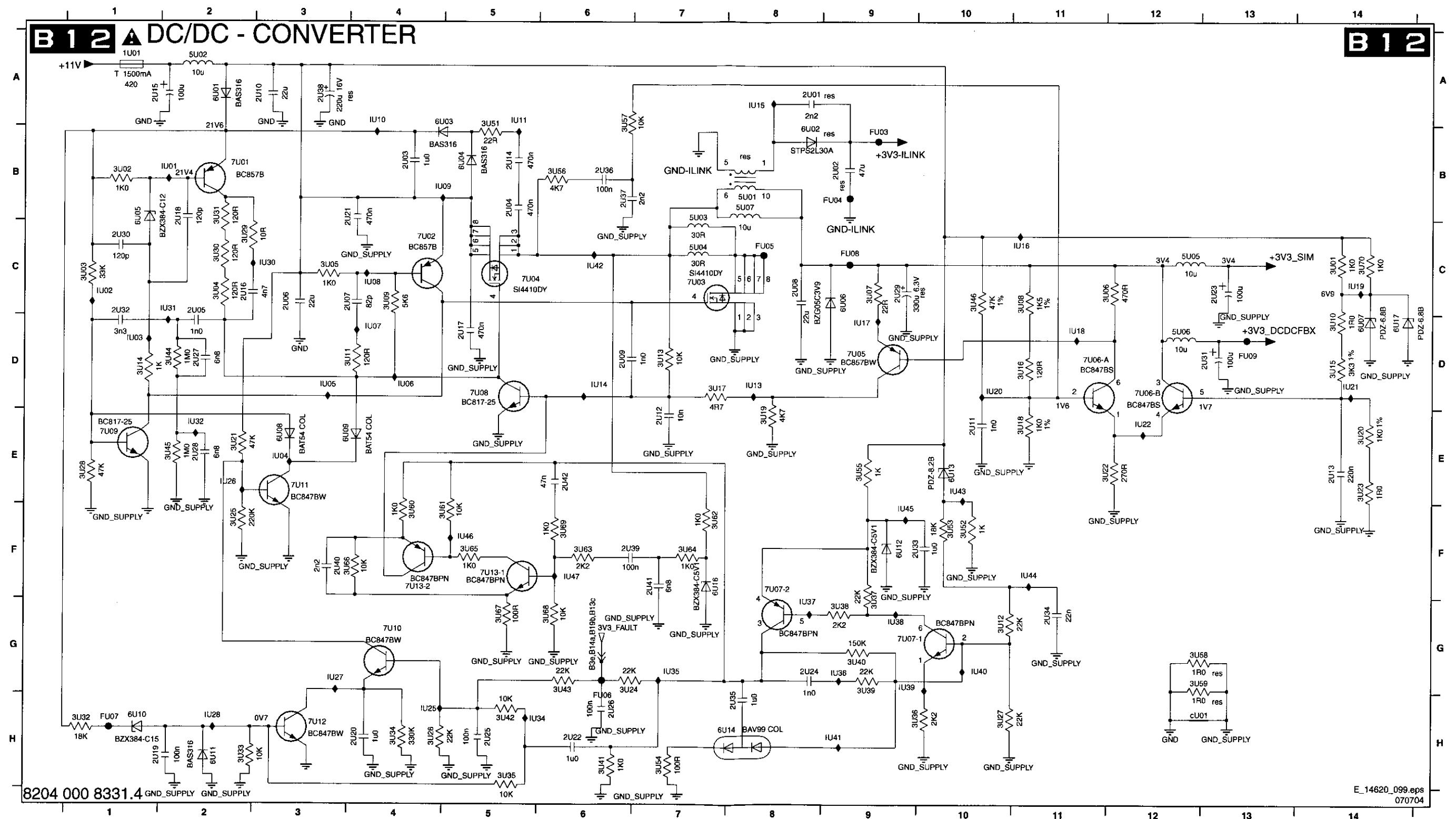
B 6 D AUDIO DELAY

B 6 D

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 G8	IU44 F11
2U02 B9	2U10 A3	2U18 B2	2U26 H6	2U34 G11	2U42 E6	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 G9	IU45 F9
2U03 B4	2U11 E10	2U19 H2	2U27 D2	2U35 H8	3U01 C14	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 C5	

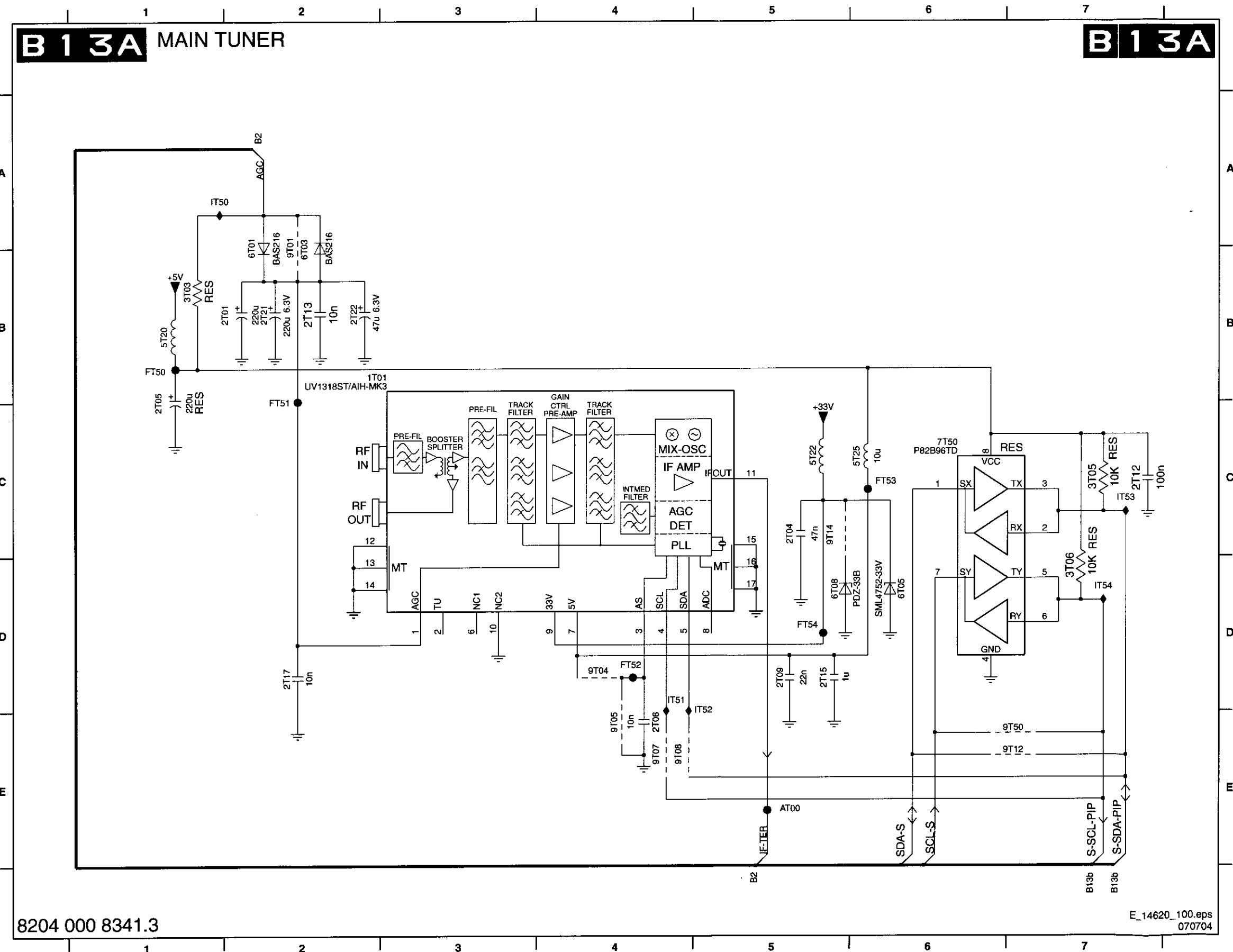


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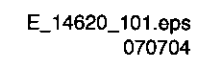
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SSB: Main Tuner

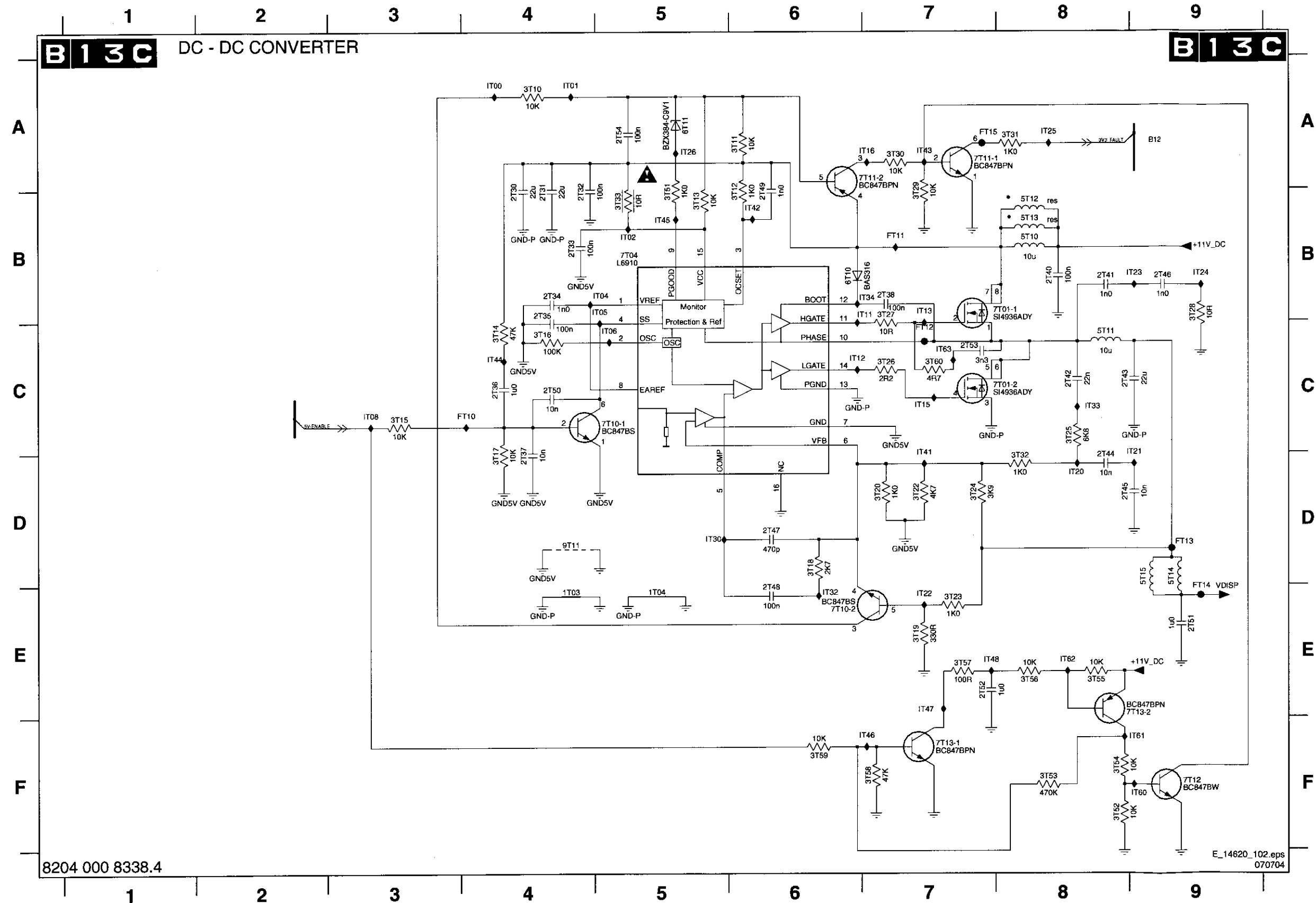
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2T01 B2	2T06 E4	2T13 B2	2T21 B2	3T05 C7	5T22 C5	6T03 B2	7T50 C6	9T05 E4	9T12 E7	AT00 E5	FT52 D4	IT50 A1	IT53 C7
2T04 C5	2T09 D5	2T15 D5	2T22 B2	3T06 D7	5T25 C6	6T05 D6	9T01 A2	9T07 E4	9T14 C5	FT50 B1	FT53 C6	IT51 D4	IT54 D7



B 1 3B SUB TUNER

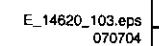


SSB: DC/DC Converter

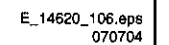


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2T31 B4	FT11 B7
2T32 B4	FT12 C7
2T33 B4	FT13 D9
2T34 B4	FT14 E9
2T35 B4	FT15 A7
2T36 C4	IT00 A4
2T37 D4	IT01 A4
2T38 B7	IT02 B5
2T40 B8	IT04 B5
2T41 B8	IT05 B5
2T42 C8	IT06 C5
2T43 C8	IT08 C3
2T44 D8	IT11 B7
2T45 D8	IT12 C6
2T46 B9	IT13 B7
2T47 D6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

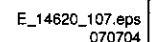
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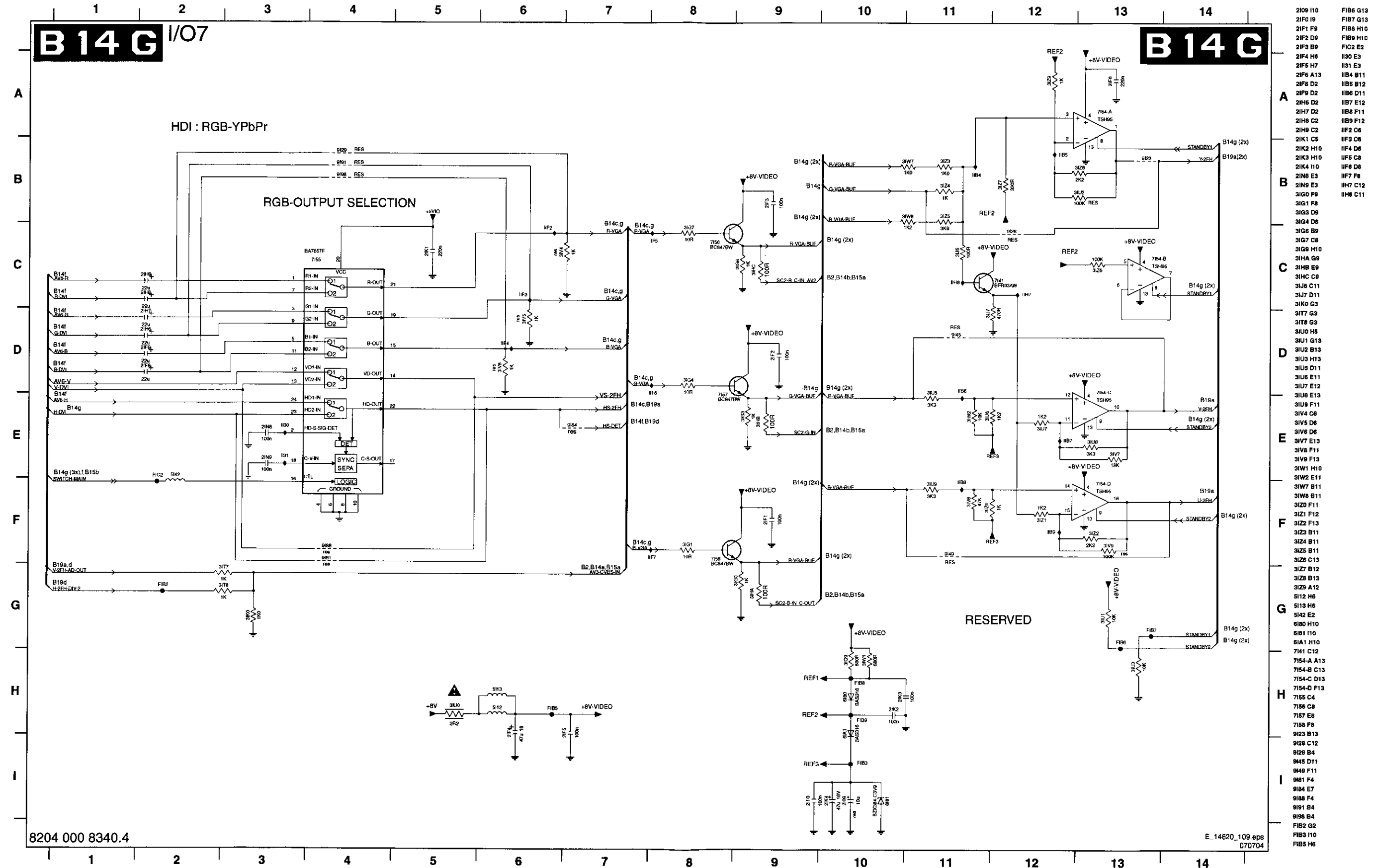
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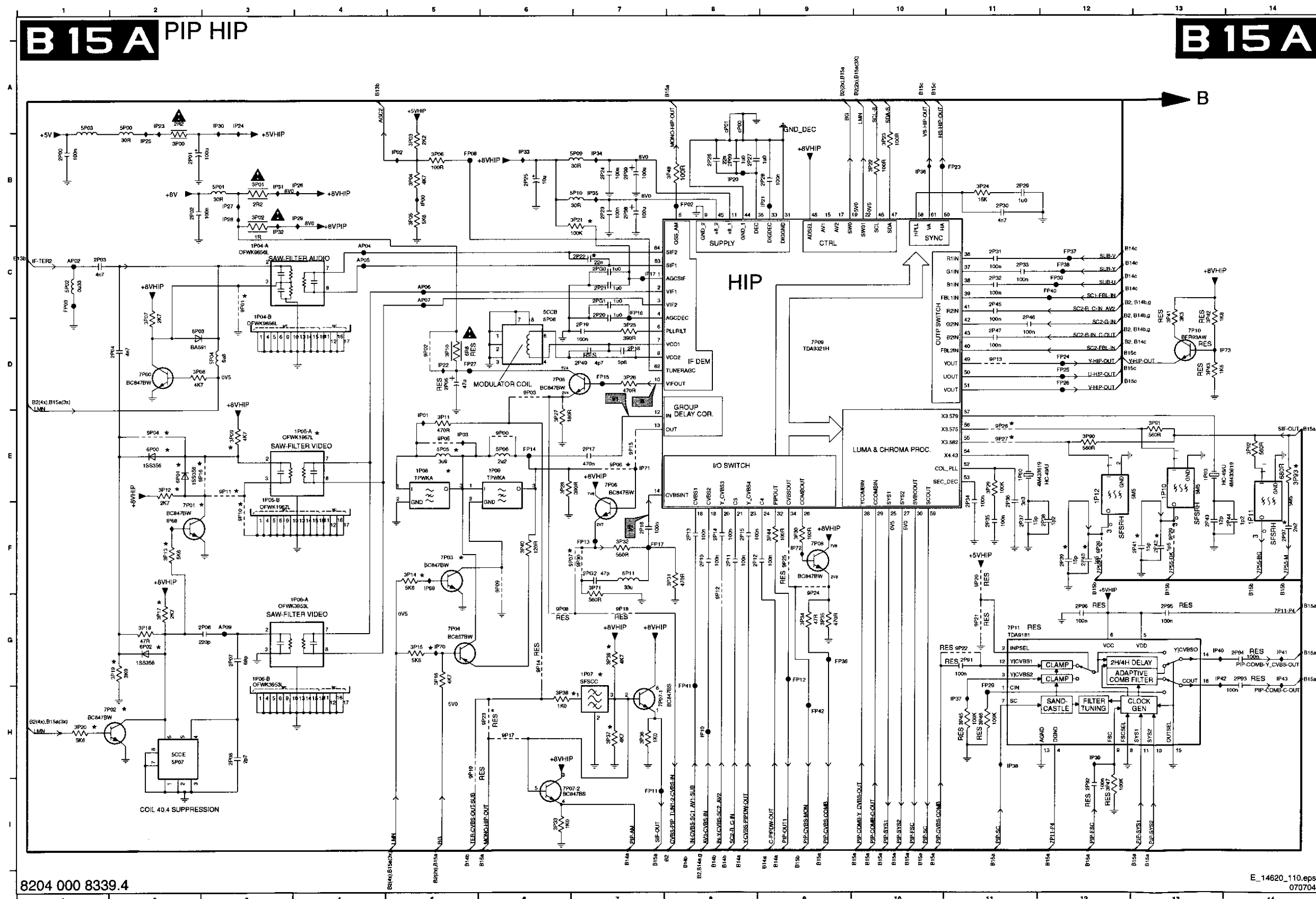
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1112 F1	2110 A3	2140 C10	2162 G10	21J5 C6	21K7 G6	31B6 D8	31C5 B9	31D6 C6	31F3 D2	31GB B12	31GH G8	31S6 H9	5105 F2	5145 F5	6105 C5	7114 A11	7145 C8	91D0 G8	1176 D3	1181 B11	1186 C5	1196 D9	11H5 B11
1179 H3	2133 C9	2148 D3	2164 G9	21J6 H6	21S6 H4	31B7 C9	31C7 B10	31E0 A11	31F4 D3	31GC A11	31HO A12	31W3 B5	5106 F2	5146 F5	7108 A4	7115 D4	7146 C10	F115 G2	1177 C4	1182 A11	1187 C6	11E8 G8	
1199 H1	2134 D10	2152 C5	2165 F2	21J7 H9	3100 G8	31B8 G10	31D2 C4	31FO F8	31F8 D4	31GD A11	31H2 B11	31W9 B5	5110 C5	5147 F6	7110 D10	7116-1 E3	9105 F10	F1C4 F2	1178 D2	1183 D4	1188 B12	11E9 G9	
1M15 F1	2137 A10	2159 D11	21A3 F8	21K5 G5	31B1 D11	31B9 G9	31D3 A12	31F1 D1	31F9 D3	31GE C11	31H4 B12	5102 D9	5121 F8	6103 F12	7111 G8	7116-2 E1	9106 F10	F1C5 F2	1179 A12	1184 D3	1189 E11	11F1 B13	



SSB: I/O7

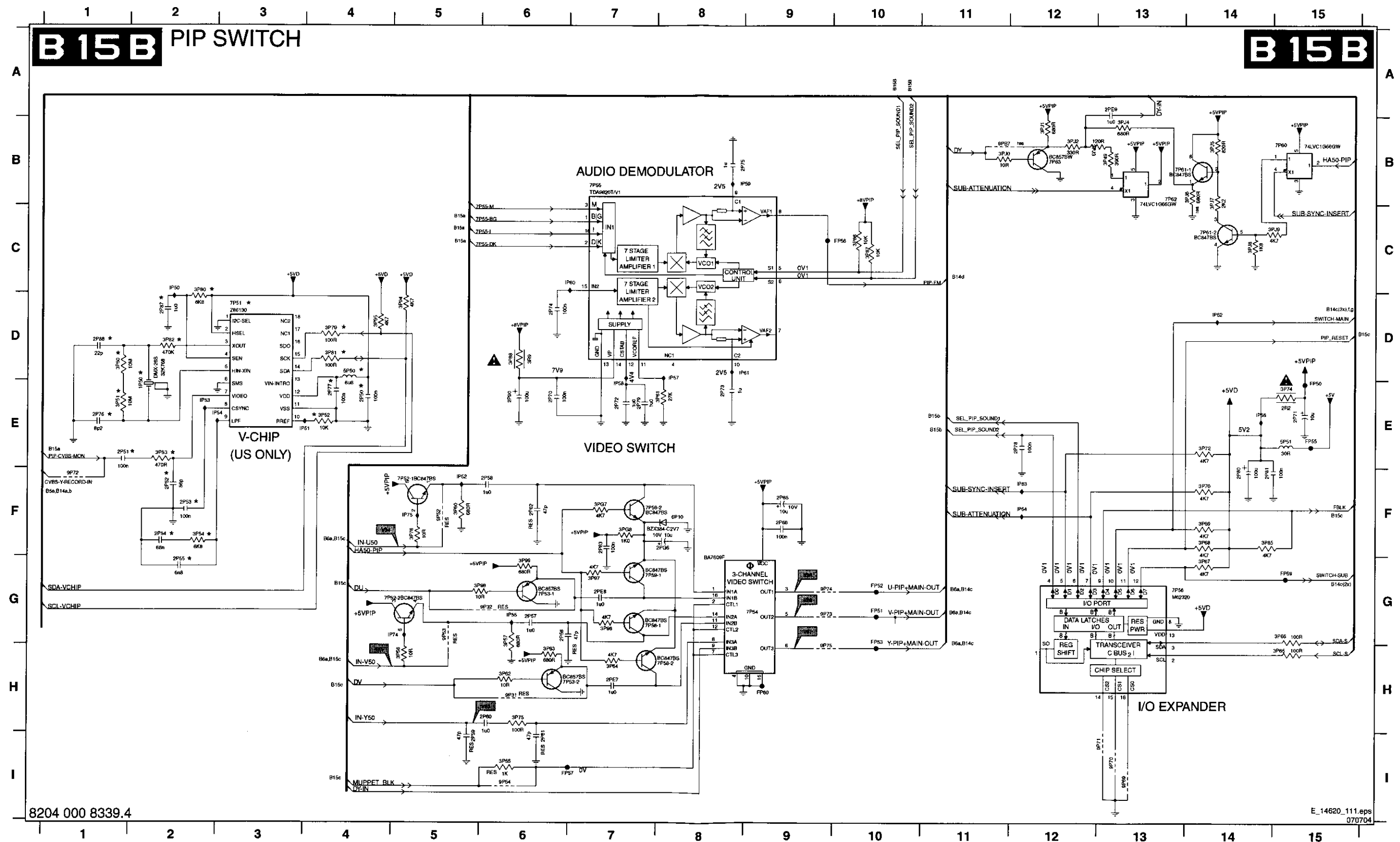


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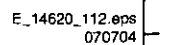


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1P05-A E4	3P18 G2	9P24 G8
1P05-B F3	3P19 G2	9P25 F8
1P06-A G4	3P20 H1	9P26 E11
1P06-B G3	3P21 B7	9P27 E11
1P07 G7	3P22 B10	9P28 F12
1P08 E5	3P23 B10	9P29 F13
1P09 E6	3P24 B11	9P30 F7
1P10 E13	3P25 D7	AP02 C1
1P11 F14	3P26 D7	AP04 C4
1P12 E12	3P27 E6	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 B6
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
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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 H6
2P25 B6	3P93 E14	FP42 H6
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2P27 B8	5P01 B3	IP01 E5
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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
2P48 D7	7P06 E7	IP36 B10
2P49 G11	7P07-1 H7	IP37 H11
2P50 I12	7P07-2 H6	IP38 H11
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2P52 G14	7P09 D9	IP40 G13
2P53 G14	7P10 D13	IP41 G14
2P54 G12	7P11 G11	IP42 G13
2P55 F14	9P00 E6	IP43 G14
2P56 B7	9P01 C3	IP68 F2
2P57 B7	9P02 D5	IP69 F5
2P58 C7	9P03 D6	IP70 G5
2P59 C7	9P04 E2	IP71 E7
2P60 F7	9P05 E5	IP72 F8
3P00 B2	9P06 E7	IP73 D14
3P01 B3	9P07 F7	CP00 A8
3P02 B3	9P08 G6	CP01 A8
3P03 B5	9P09 F6	
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3P05 B5	9P11 E3	
3P06 B5	9P12 G8	
3P07 D2	9P13 D11	
3P08 D2	9P14 G6	
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3P12 E2	9P18 G7	
3P13 F2	9P19 H5	

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HDI A/D CONVERTER



2L27 H2

2L29 E3

2L31 H2

2L33 A2

2L48 D2

2L50 F2
2L51 C2

21 54 E6

2L67 E6

2L59 E5

3L02 E5

3L04 C2

3L06 H5

3L11 F2
3L13 G3

31 20 F4

3L28 G6

3L30 E4

3L32 G4

5L02 C2

5L06 F2
5L10 F2

G 5L14 B3
E1 1E C3

5L17 B3

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AL02 G10

AL07 E1

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FL05 H10FL09 C3
FL10 E3

FL12 E3

FL15 G10

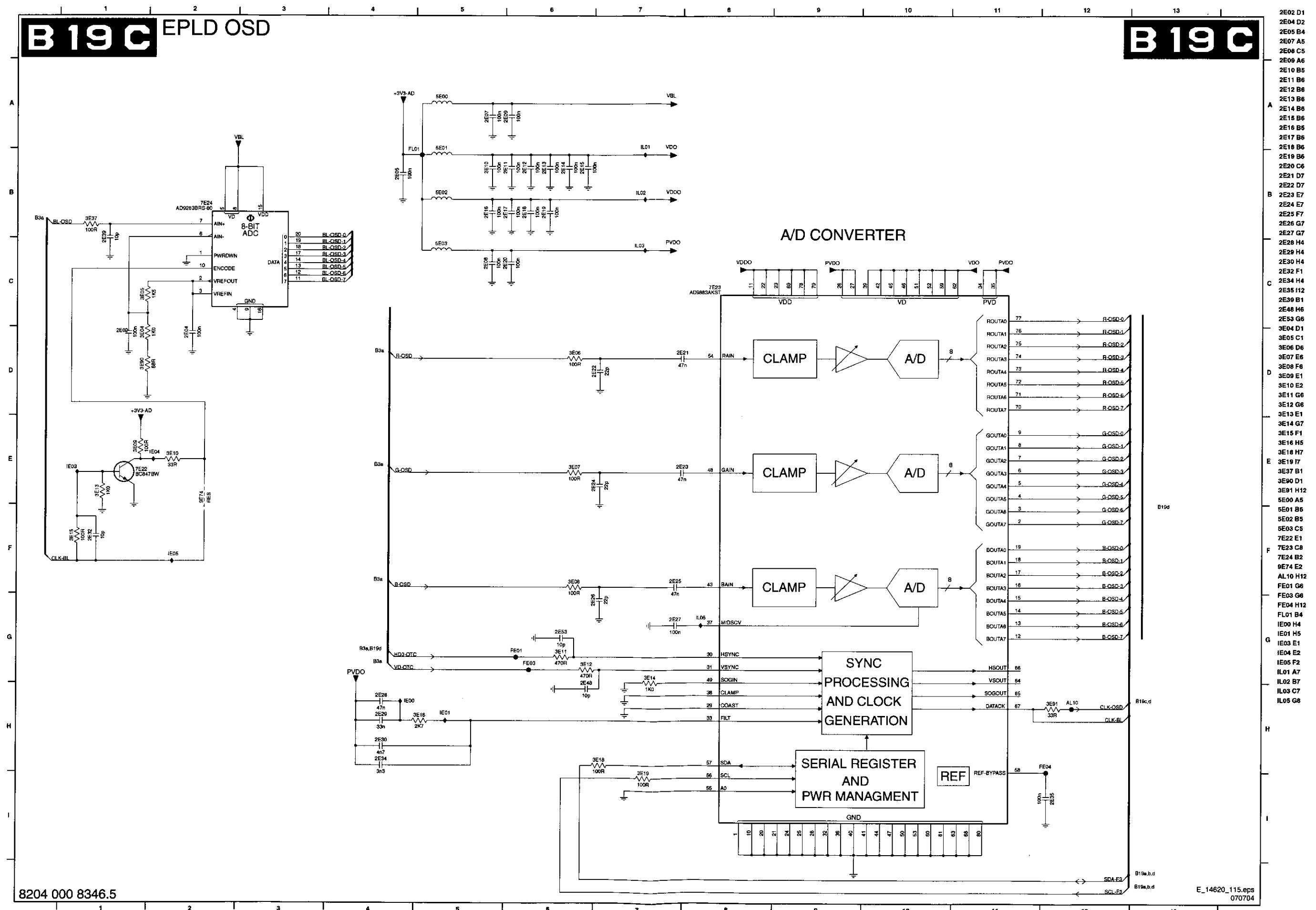
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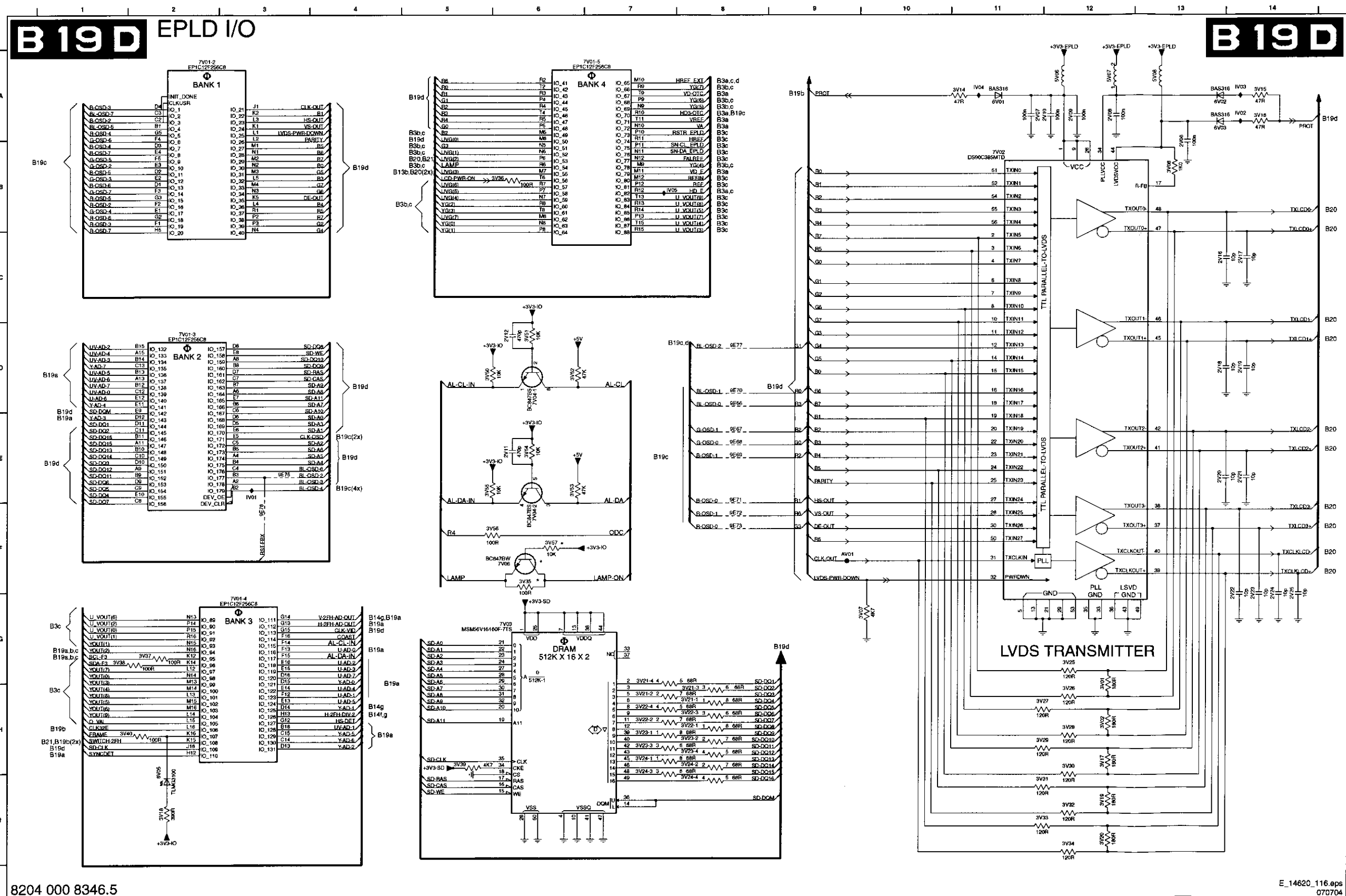
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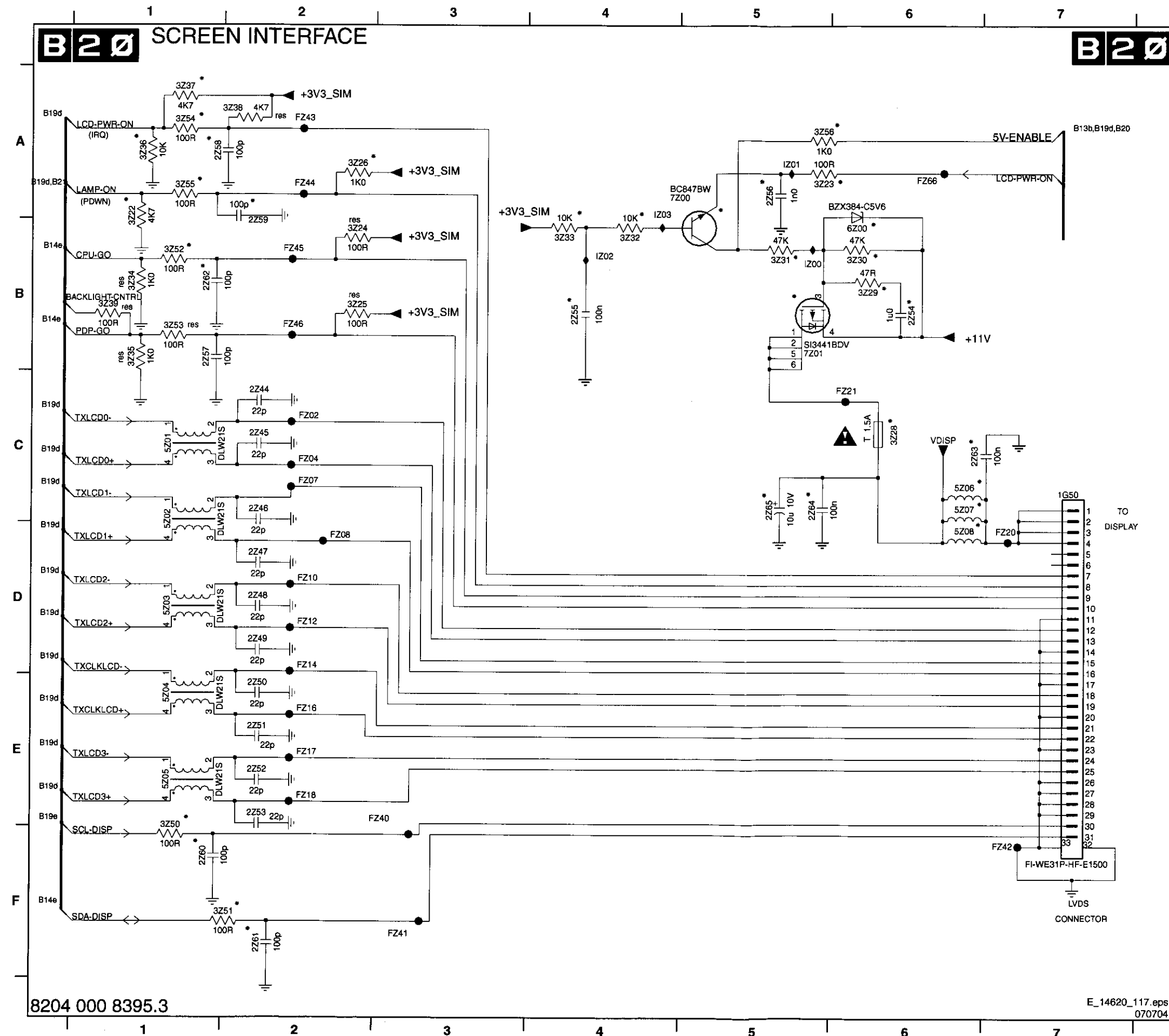
SSB: EPLD OSD



SSB: EPLD I/O

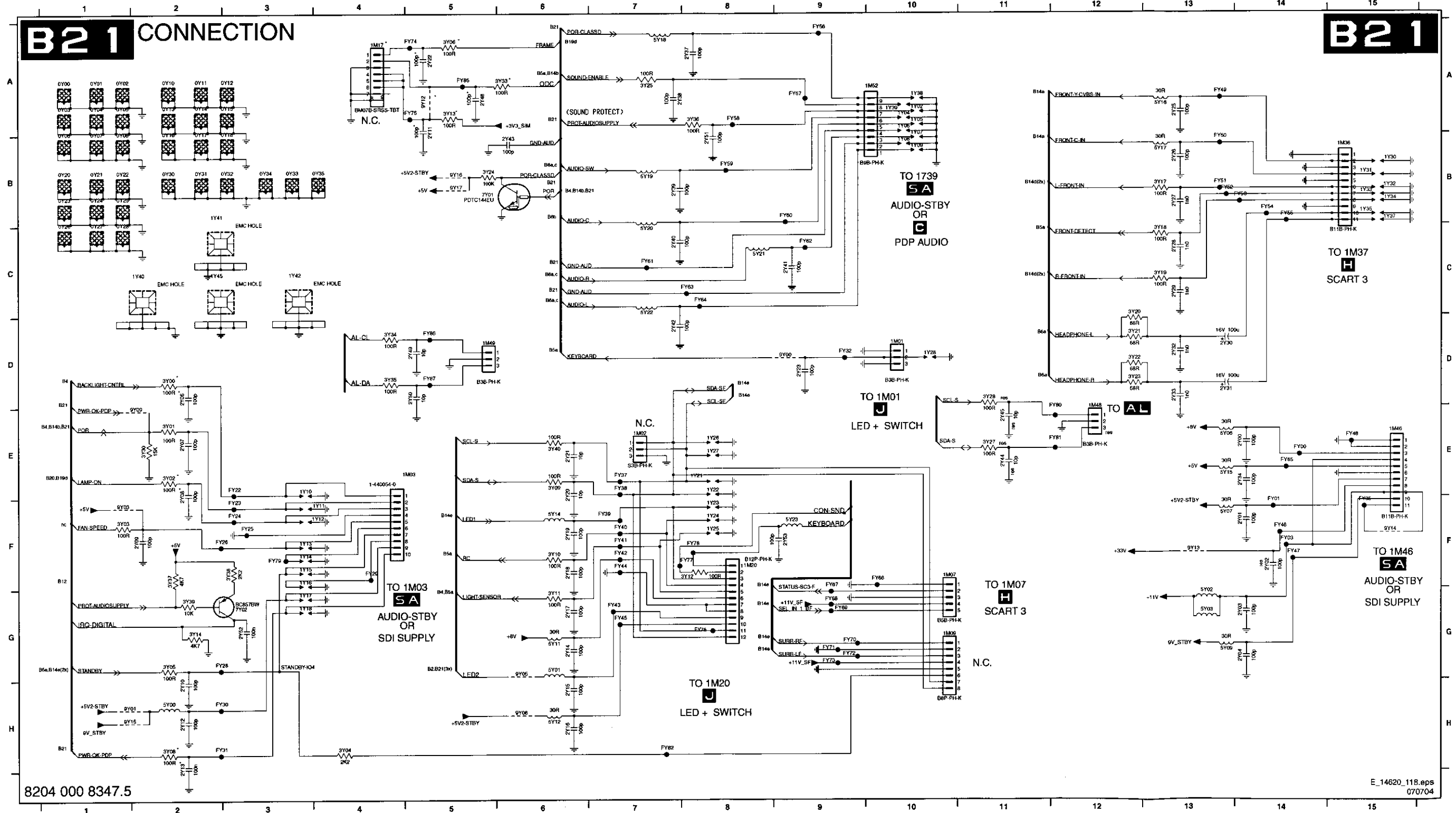


SSB: Screen Interface

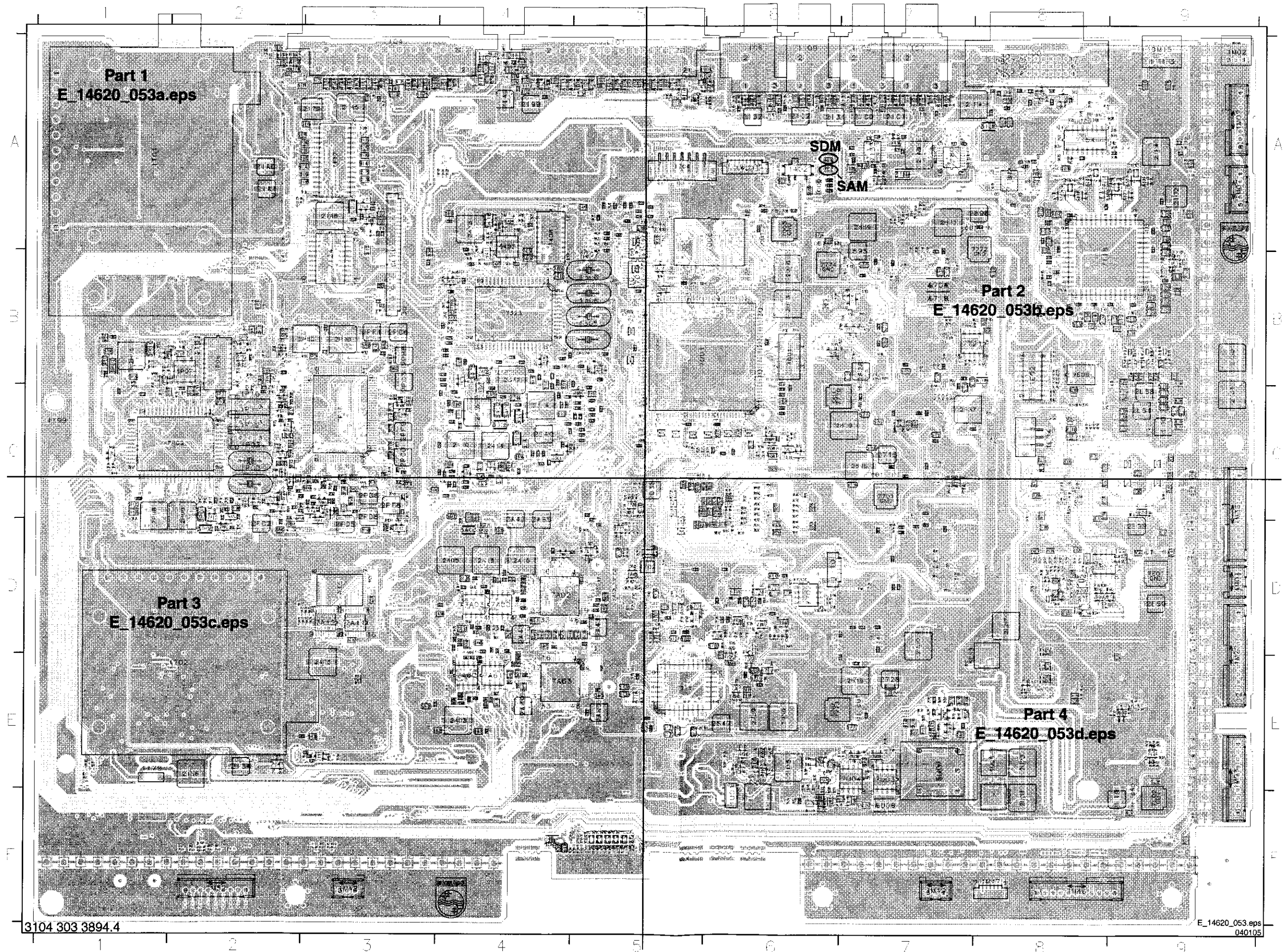


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2Z49 D2	7Z01 B5
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2Z57 B1	FZ16 E2
2Z58 A1	FZ17 E2
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2Z60 F1	FZ20 D7
2Z61 F2	FZ21 C6
2Z62 B1	FZ40 E3
2Z63 C6	FZ41 F3
2Z64 C5	FZ42 F7
2Z65 C5	FZ43 A2
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	

Y00 A1	Y010 A2	Y020 B1	Y030 B2	1M07 F10	1Y02 A10	1Y12 F4	1Y23 F8	1Y33 B15	1Y45 C2	2Y08 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 G3	FY78 F8
Y0V1 A1	Y011 A2	Y021 B1	Y031 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 F8
Y0V2 A1	Y012 A3	Y022 B1	Y032 B3	1M17 A4	1Y05 A10	1Y14 F3	1Y25 F8	1Y35 B15	2Y01 F14	2Y11 A5	2Y20 E6	2Y39 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
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Y0V8 A1	Y018 A3	Y028 B1	1M03 E5	1M52 A10	1Y11 F4	1Y22 E8	1Y32 B15	1Y42 C3	2Y08 E2	2Y17 G6	2Y27 B13	2Y38 A7	2Y49 D5	3Y04 H4	3Y14 G2	3Y25 A7	3Y38 F3	5Y09 G13	5Y20 C7	9Y05 G6	FY00 E14	FY28 G2	FY41 F7	FY50 B13	FY59 B8	FY68 G9	FY77 F8	



Layout SSB (Top Side Overview)

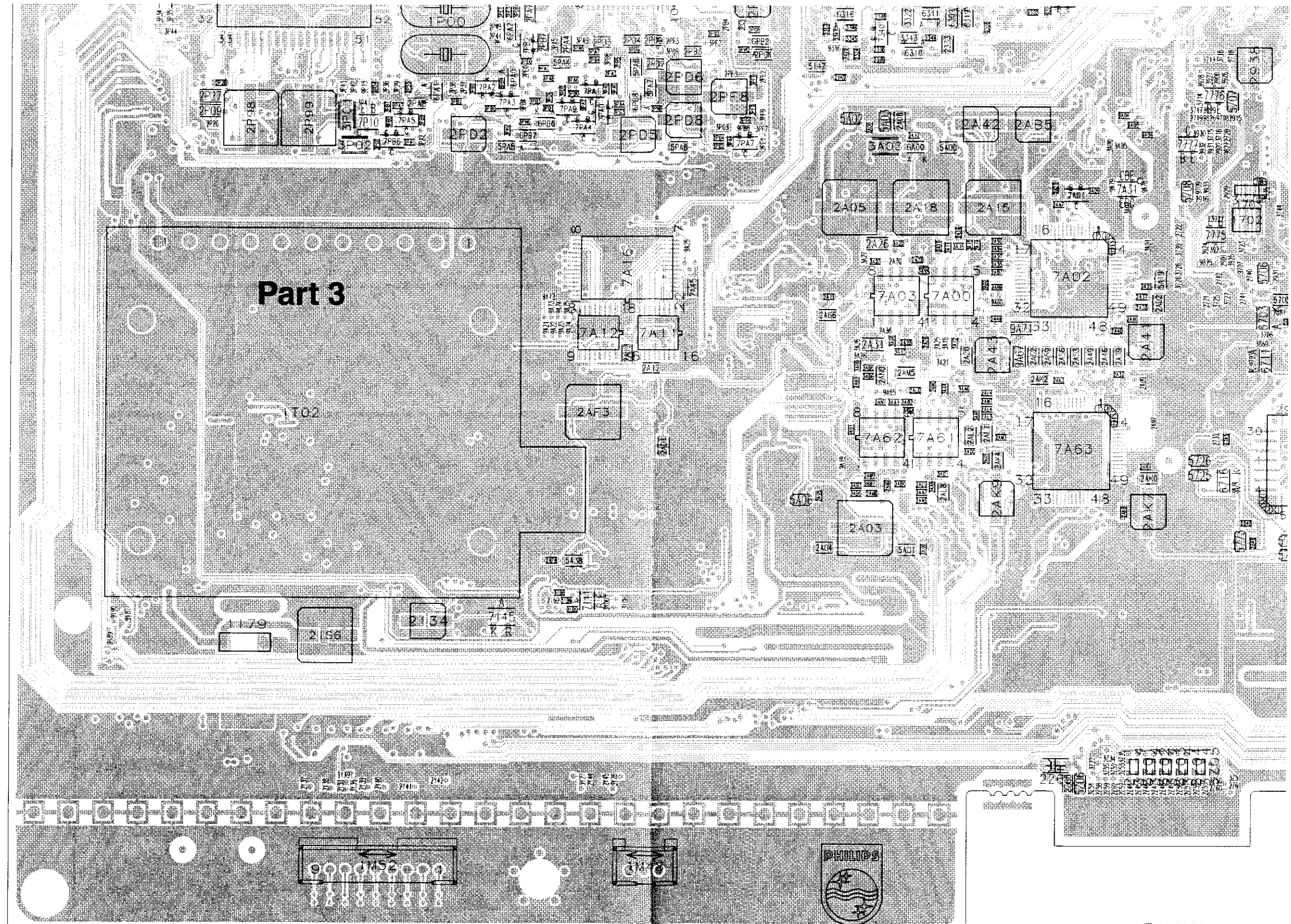


Layout SSB Mapping (Top Side)

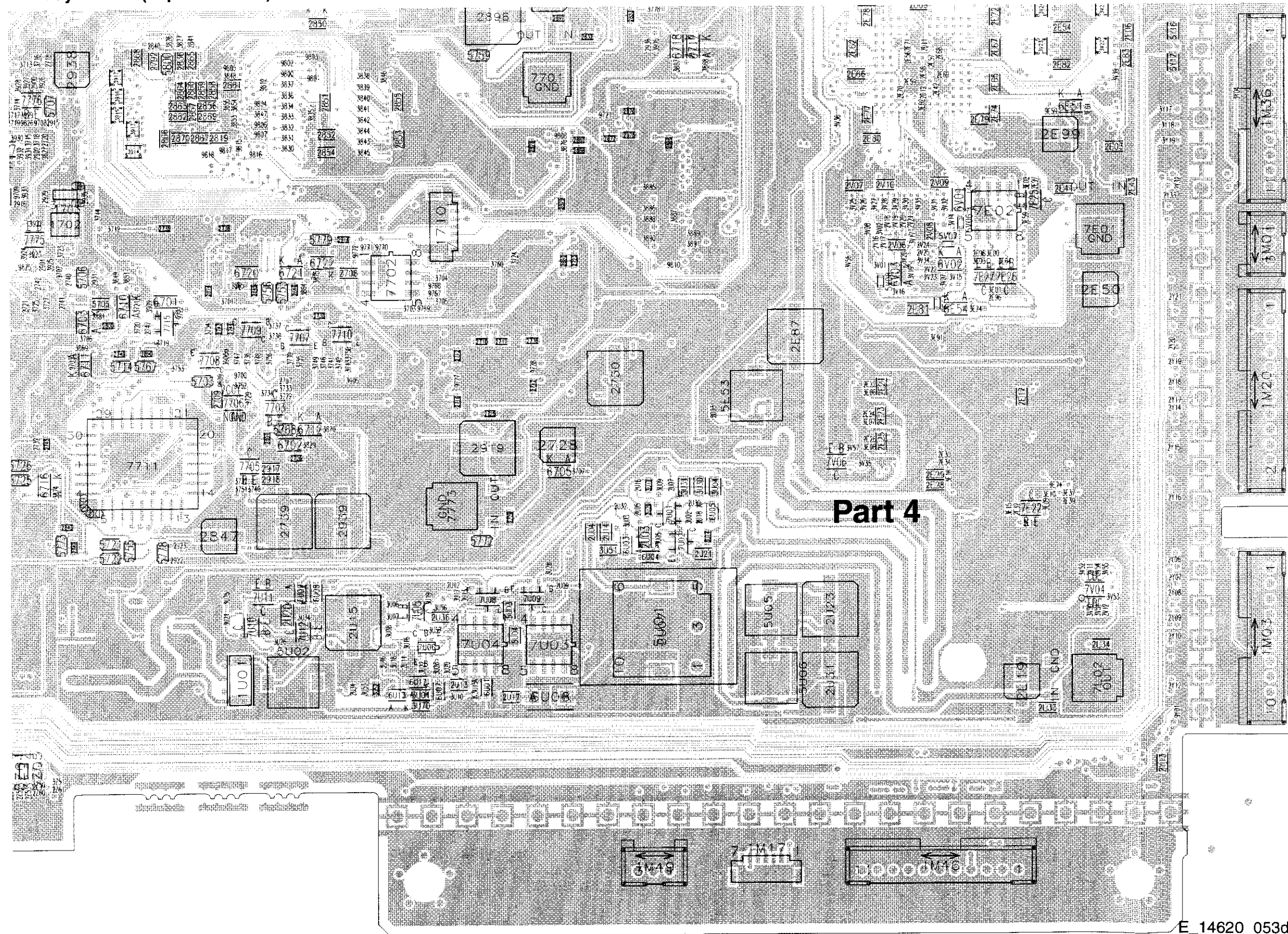
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1001 B6	2360 B5	2788 B7	2937 C7	2E39 E9	21C1 A7	2PA4 C3	2245 F5	3460 B5	3874 E5	3119 A3	31Q9 B9	3PC9 C3	3Y19 D9	5P04 B2	6168 A6	7154 A8	9310 D7	9PB4 C2
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1305 B5	2362 B5	2792 C5	2939 E6	2E42 C8	21C8 B9	2PA6 C2	2247 F5	3462 B5	3876 D7	3121 A3	31R3 B8	3PD1 C2	3Y28 F3	5P07 B2	6170 A6	7157 A8	9315 D6	9PB8 D3
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1308 B4	2365 B4	2796 B7	2A03 E4	2E54 C9	21E2 B8	2PB3 C3	2250 F5	3474 C4	3886 D7	3127 A3	31R6 B8	3PD4 C2	3Z22 F5	5PA1 C3	6190 A7	7180 A7	9318 D6	
1401 A6	2367 B4	2797 B7	2A04 E4	2E56 C8	21E3 A8	2PB4 C3	2251 F5	3475 B4	3887 D7	3135 A4	31R7 A8	3PD5 C2	3Z34 F5	5PA2 B3	6191 A7	7182 A8	9321 B8	
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1408 A4	2373 B4	2799 B7	2A06 D4	2E58 C8	21E5 B9	2PB6 C3	2253 F5	3701 D6	3889 D7	3143 A3	31R9 B8	3PD8 C2	3Z50 F5	5PA4 C3	6193 A7	7182 A8	9325 D5	
1702 D5	2376 B4	2800 D5	2A08 C4	2E59 C8	21E6 B9	2PB7 C2	2257 F5	3703 D6	3890 D7	3150 A4	31S0 B8	3PD9 C3	3Z51 F5	5PA5 D2	61A0 A5	7P00 B2	9326 C5	
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1710 D7	2379 B5	2805 B7	2A10 D4	2E65 C8	21E8 B9	2PB9 C3	2259 F5	3705 D6	3895 B8	3152 A4	31S3 A9	3PE1 C2	3Z53 F5	5PA7 C3	6P03 B2	7P05 B2	9A04 C5	
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1P00 C2	2425 C4	2843 E5	2A44 D4	2I13 A2	21S6 E2	2PF8 C3	3076 C5	3740 E6	3939 D5	3181 A3	31Z1 A8	3U04 E7	5725 E5	6404 A4	7013 B5	7U11 E6	9E74 E9	
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1U01 F6	2436 B4	2851 C6	2A59 D4	2I21 A2	2L07 B9	2U09 E7	3302 C4	3748 D6	3948 D4	3190 A7	31L1 B9	3U13 E7	5756 D6	6711 D5	7340 C4	9023 C6	9I17 A5	
2002 B6	2707 D6	2852 D6	2A62 D4	2I22 A2	2L08 C9	2U11 E6	3304 C4	3749 D6	3949 D4	3191 A7	31L9 B9	3U14 E7	5757 B7	6712 E6	7361 C4	9302 C4	9I18 A5	
2004 C6	2708 D6	2853 D6	2A65 D4	2I23 A2	2L09 C9	2U12 E6	3306 C4	3750 D6	3950 D4	3192 A7	31L2 B9	3U15 F7	5758 B7	6716 E5	7362 C5	9303 C4	9I20 A3	
2005 C6	2709 E6	2854 D6	2A67 D4	2I24 A3	2L10 B9	2U13 F7	3317 C4	3751 E6	3951 D4	3193 A7	31L2 B9	3U16 E6	5759 C7	6717 C7	7402 B4	9304 C4	9I21 A3	
2006 C6	2710 D7	2855 C6	2A69 E3	2I25 A3	2L11 C9	2U14 E7	3318 C4	3752 D6	3952 D4	3194 A6	31L8 B9	3U17 E7	5760 B8	6718 C7	7405 A4	9305 C4	9I22 A4	
2007 C6	2711 D7	2856 C6	2A6A D5	2I26 A7	2L12 C9	2U15 E6	3320 B4	3753 D5	3953 D4	3195 A6	31L9 B9	3U18 E6	5761 C7	6719 B7	7408 B4	9314 B5	9I23 A8	
2008 C6	2712 D7	2857 C6	2A67 D4	2I27 A7	2L13 C9	2U16 E7	3321 B4	3754 D6	3954 D4	3196 A6	31L0 B9	3U19 E6	5762 B7	6720 D6	7409 C4	9315 C5	9I25 A7	
2009 C5	2715 C7	2858 C6	2A62 D4	2I28 A6	2L14 C9	2U17 F7	3322 C4	3755 D6	3955 D4	3197 A6	31L3 B9	3U20 F6	5764 B7	6721 D6	7411 B4	9316 C4	9I26 A7	
2011 C5	2716 E7	2859 C6	2A65 D4	2I29 A6	2L15 C9	2U18 E7	3329 C4	3756 D6	3956 D4	3199 A6	31L2 C8	3U21 E6	5767 D5	6722 D6	7413 B5	9322 B4	9I27 A7	
2012 C5	2717 D7	2860 C6	2A66 D4	2I30 A6	2L16 C9	2U19 E7	3330 C5	3760 D7	3957 D4	31A0 A6	31L3 C8	3U22 F6	5768 E6	6723 C7	7414 B4	9408 B4	9I28 A9	
2013 B6	2718 C5	2861 C6	2A67 D4	2I31 A7	2L17 C9	2U21 E7	3332 C5	3765 B7	3958 D4	31A2 A6</								

Part 1

D
E
F



Layout SSB (Top Side Part 4)



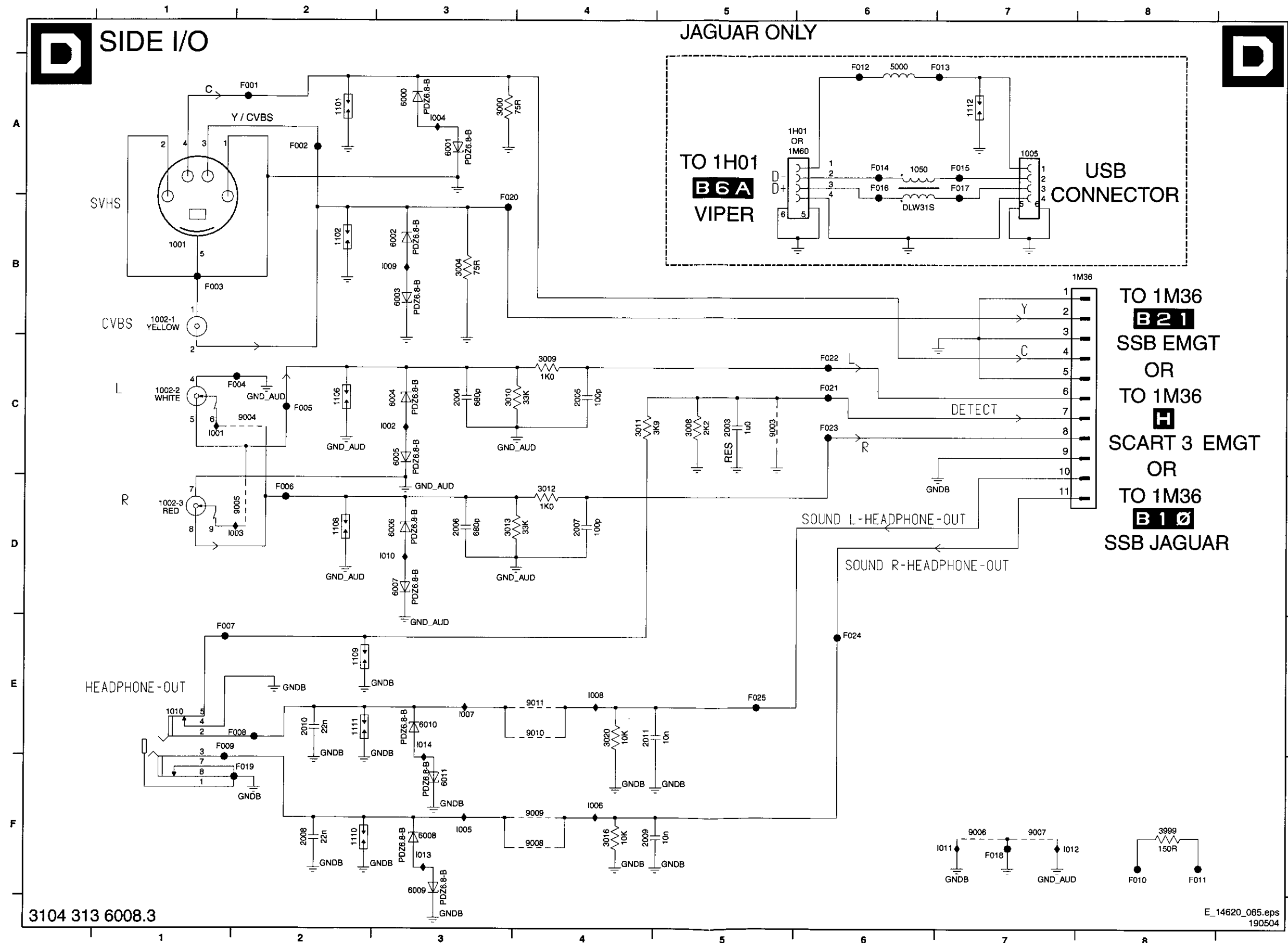
Layout SSB Mapping (Bottom Side)

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1404 A4	2817 D3	2160 F6	2PG2 C9	3032 C4	3445 A6	3E04 E1	3IH2 F6	3P67 B7	3V37 C2	5Y18 F8	7713 D4	9019 C4	9166 A3
1406 A6	2823 A3	2169 B2	2PG6 D7	3034 B4	3450 B6	3E05 E1	3IH4 F6	3P68 B7	3V38 C2	5Y19 F8	7714 D3	9021 C4	9167 A3
1407 A6	2825 A3	2170 B2	2T01 A9	3036 C4	3451 B6	3E11 E2	3IH7 A3	3P69 B7	3V40 C2	5Y20 F8	7719 C3	9024 C4	9168 A2
1409 A5	2827 A3	21A4 A5	2T02 D9	3037 C4	3452 B6	3E12 E2	3IH8 A8	3P70 B7	3Y00 E1	5Y21 F8	7720 B3	9025 C4	9178 B8
1410 B6	2882 D3	21B7 E6	2T03 D8	3038 C4	3453 C6	3E14 E2	3IHG A7	3P71 C8	3Y01 E1	5Y22 F8	7752 C5	9308 C6	9179 A3
1411 B6	2883 D3	21B8 A1	2T04 A9	3040 B5	3454 C6	3E18 D2	3I0 A8	3P72 B8	3Y02 E1	5Y23 D1	7753 C4	9309 C6	9181 A2
1A00 D5	2884 D3	21B9 B2	2T05 A9	3041 B5	3455 C6	3E19 D2	3I1 A8	3P74 B7	3Y03 E1	5Z07 F6	7760 D3	9310 C6	9188 A2
1A01 D5	2885 D3	21C3 A3	2T06 A9	3042 C5	3456 B6	3E51 D1	3I2 A8	3P75 D7	3Y05 E1	5Z08 F6	7A04 D6	9311 C6	9191 A2
1G50 F5	2892 E3	21C5 B1	2T07 D8	3045 A4	3457 B6	3E55 D1	3I3 A8	3P76 C7	3Y06 F2	6002 A4	7A06 D6	9312 C6	9192 A7
1P04 B8	2893 D3	21C6 A2	2T09 A9	3046 A4	3459 C6	3E56 D1	3I5 A2	3P79 C8	3Y08 F1	6004 C4	7A07 D6	9313 C6	9193 A7
1P05 C8	2894 D3	21C7 A2	2T10 D9	3048 B5	3463 B6	3E57 D1	3I6 A2	3P80 C8	3Y09 D1	6005 A4	7A08 D5	9318 B6	9194 A7
1P07 C8	2920 D5	21E0 B8	2T11 D8	3049 B5	3465 C6	3E58 D1	3I7 A2	3P81 C7	3Y10 D1	6006 C4	7A09 D5	9319 B6	9196 B8
1P08 B9	2932 C5	21F0 A1	2T12 A9	3050 B5	3467 C6	3E69 C2	3I8 B2	3P82 B7	3Y11 E1	6303 B6	7A13 D7	9401 A6	9198 A2
1P09 C9	2933 C5	21F8 A2	2T13 A9	3051 B5	3468 B6	3E70 C2	3I9 B2	3P85 B8	3Y12 D1	6304 B6	7A14 D7	9402 A6	9199 F6
1P50 C8	2A01 D6	21F9 A2	2T14 D8	3052 B4	3470 C6	3E81 C2	3IJ2 A2	3P86 B7	3Y13 F2	6306 B6	7A15 D8	9403 A6	91A2 A3
2003 B4	2A07 C6	21G1 A8	2T15 A9	3053 C5	3471 C6	3E82 B2	3IJ3 A2	3P87 B7	3Y14 F8	6307 B6	7A30 E7	9404 B6	91A4 A5
2010 C5	2A19 D7	21H1 B1	2T16 D9	3054 B4	3700 D4	3E83 C2	3IJ4 A2	3P88 B7	3Y20 D1	6308 C6	7E03 B2	9405 A6	91A5 A5
2017 B5	2A24 D7	21H3 A5	2T17 A9	3055 B4	3702 E4	3E84 B2	3IJ6 A2	3P92 C8	3Y21 D1	6312 B6	7E04 C2	9406 B6	91B1 A7
2019 A5	2A34 D8	21H6 A2	2T18 D8	3056 B4	3709 E5	3E85 B2	3IJ7 A2	3P94 C8	3Y22 D1	6313 B6	7E05 D1	9407 B6	91B2 A7
2022 C4	2A38 D7	21H7 A2	2T19 D8	3057 B4	3710 D5	3E86 B2	3IJ8 A7	3P95 C8	3Y23 D1	6314 C6	7E10 C2	9410 B6	91B3 A2
2023 B4	2A47 D5	21H8 A2	2T20 D8	3061 B4	3711 E4	3E88 D2	3IK4 A7	3P96 C7	3Y24 F8	6317 C6	7E12 D1	9413 B6	91D1 A3
2024 B4	2A51 C5	21H9 A2	2T21 A9	3062 B4	3757 A3	3E89 D1	3IK5 A8	3P97 D7	3Y25 F8	6334 B6	7E23 E2	9415 B6	91D2 A3
2026 B5	2A64 D6	21J0 A8	2T22 A9	3064 C5	3758 E5	3E90 E1	3IK7 A7	3P98 C7	3Y30 F1	6402 A6	7E24 E1	9418 A6	91D3 A2
2033 B5	2A69 D6	21J1 A7	2T30 E9	3067 B5	3759 D5	3I01 A8	3IK9 B2	3P99 C7	3Y33 F2	6403 B6	7I01 A8	9420 A6	91D4 A2
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2038 B4	2A72 D6	21J5 E5	2T32 E9	3070 C4	3762 C3	3I03 B8	3IN2 A3	3PC5 B7	3Y35 F3	6713 E3	7I03 A4	9422 B6	91D6 A2
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2309 B6	2AD4 E8	2P15 C9	2U01 F3	3300 B6	3797 B4	3I31 A3	3IR1 B1	3T06 A9	5312 B6	6I66 A2	7I37 A8	9764 B4	9P31 C7
2310 B6	2AD5 E7	2P16 C9	2U02 E3	3301 B6	3799 B4	3I32 A2	3IS1 B2	3T10 E9	5313 C6	6I80 A1	7I38 A7	9765 B4	9P32 C7
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2312 B6	2AE2 D7	2P23 C8	2U08 F2	3305 C6	3801 A3	3I34 A4	3IT5 B2	3T12 E9	5315 C6	6IA1 A1	7I41 A2	9773 B4	9P53 C7
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2369 B6	2E12 D2	2P58 C7	2Y01 F2	3334 B6	3884 D3	3IA7 A3	3L12 B1	3T32 E8	5E01 E2	6U10 E3	7P52 C7	9A17 E6	9T12 A9
2370 C6	2E13 E2	2P59 D8	2Y02 F2	3337 C6	3894 A3	3IA8 A4	3P03 C8	3T33 E9	5E02 E2	6U11 E4	7P53 C7	9A18 D6	9T14 A9
2371 B6	2E14 E2	2P60 D7	2Y03 F2	3338 C6	3896 B2	3IA9 A4	3P04 C8	3T51 E9	5E03 E2	6U12 F4	7P54 C7	9A20 E6	9T50 A9
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2375 B6	2E18 D2	2P63 C7	2Y22 F2	3351 C6	3902 C3	3IB3 E8	3P09 B8	3T54 E9	5E55 C2	6V05 C2	7P58 C7	9E58 C2	9Y05 E1
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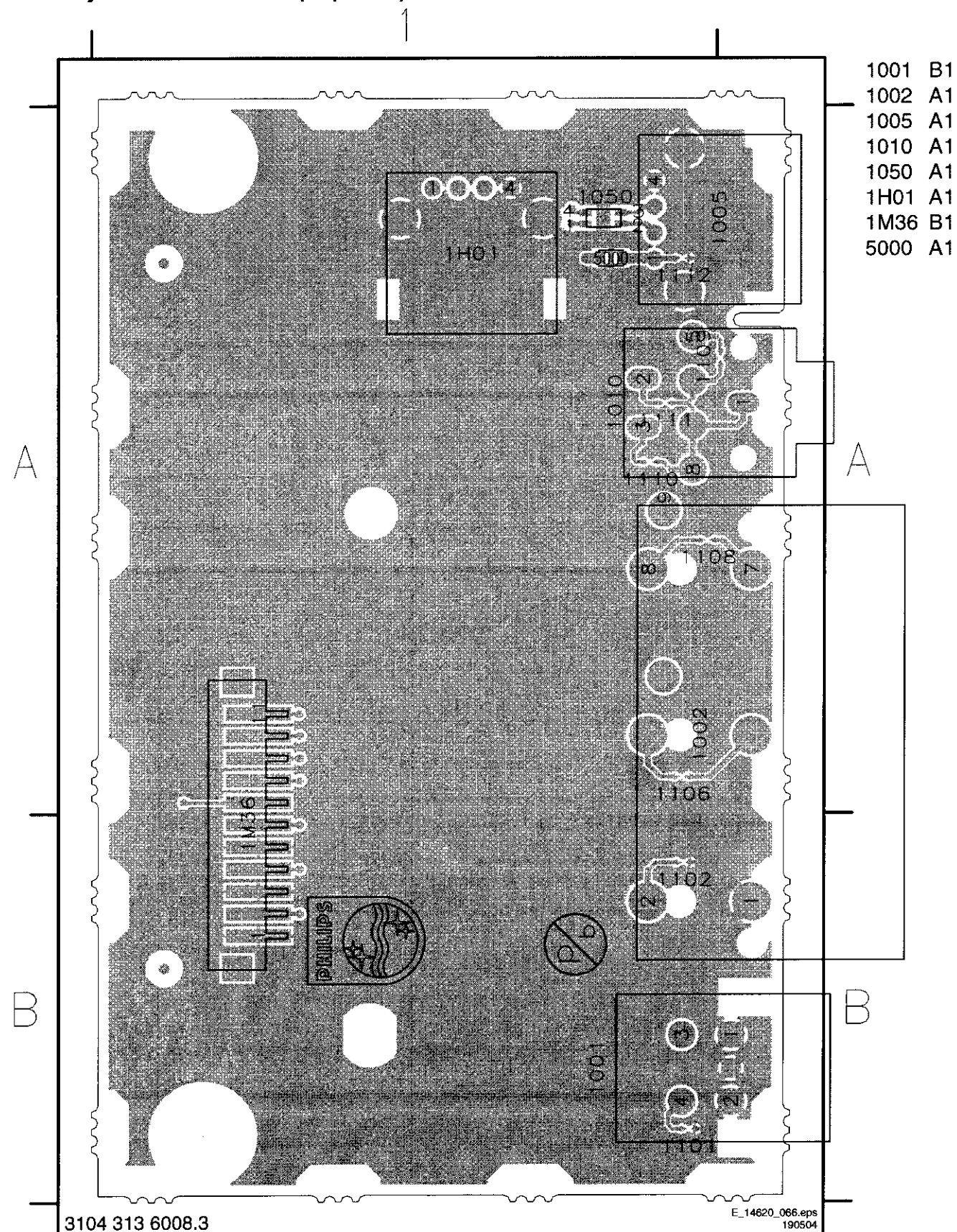
Side I/O Panel



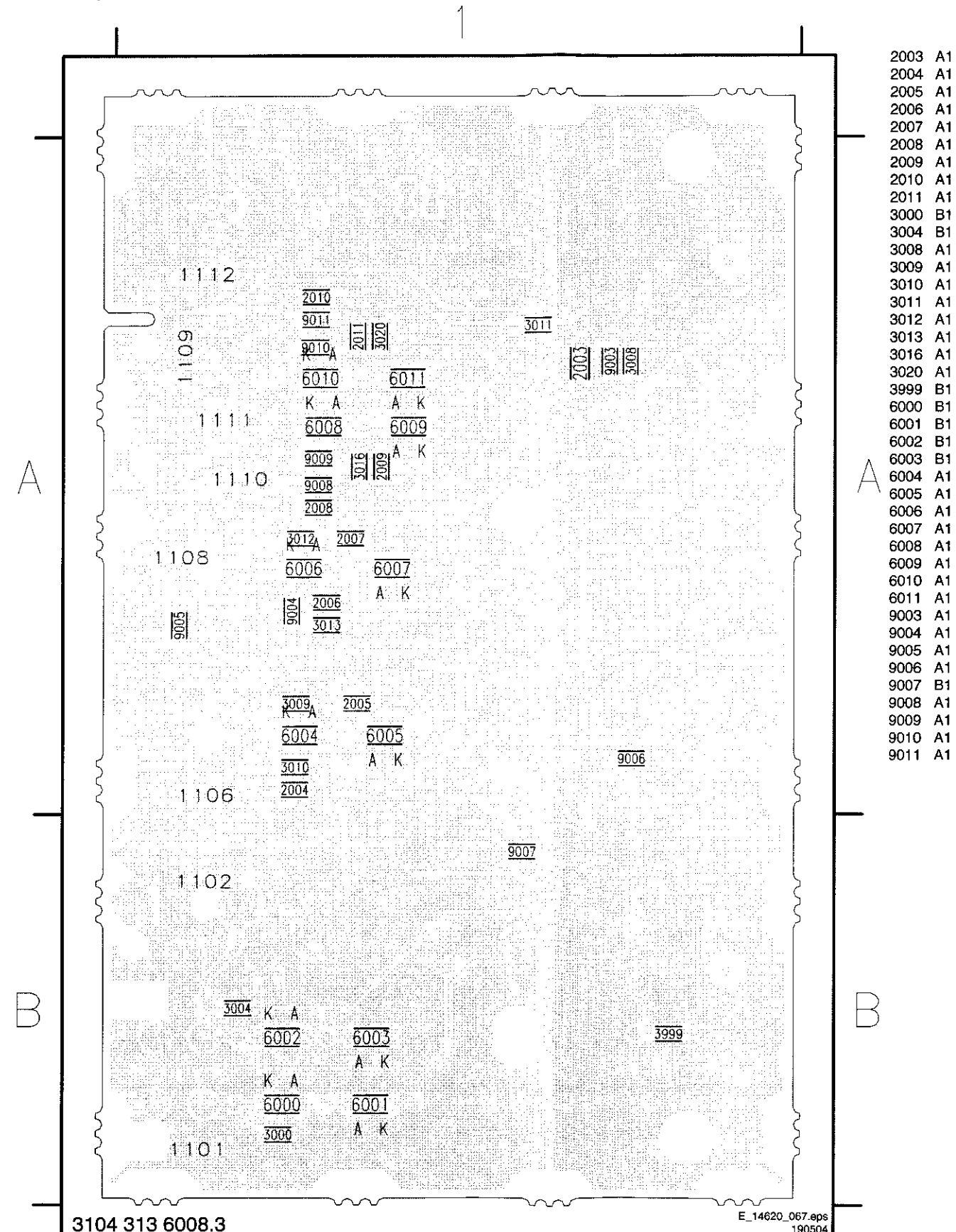
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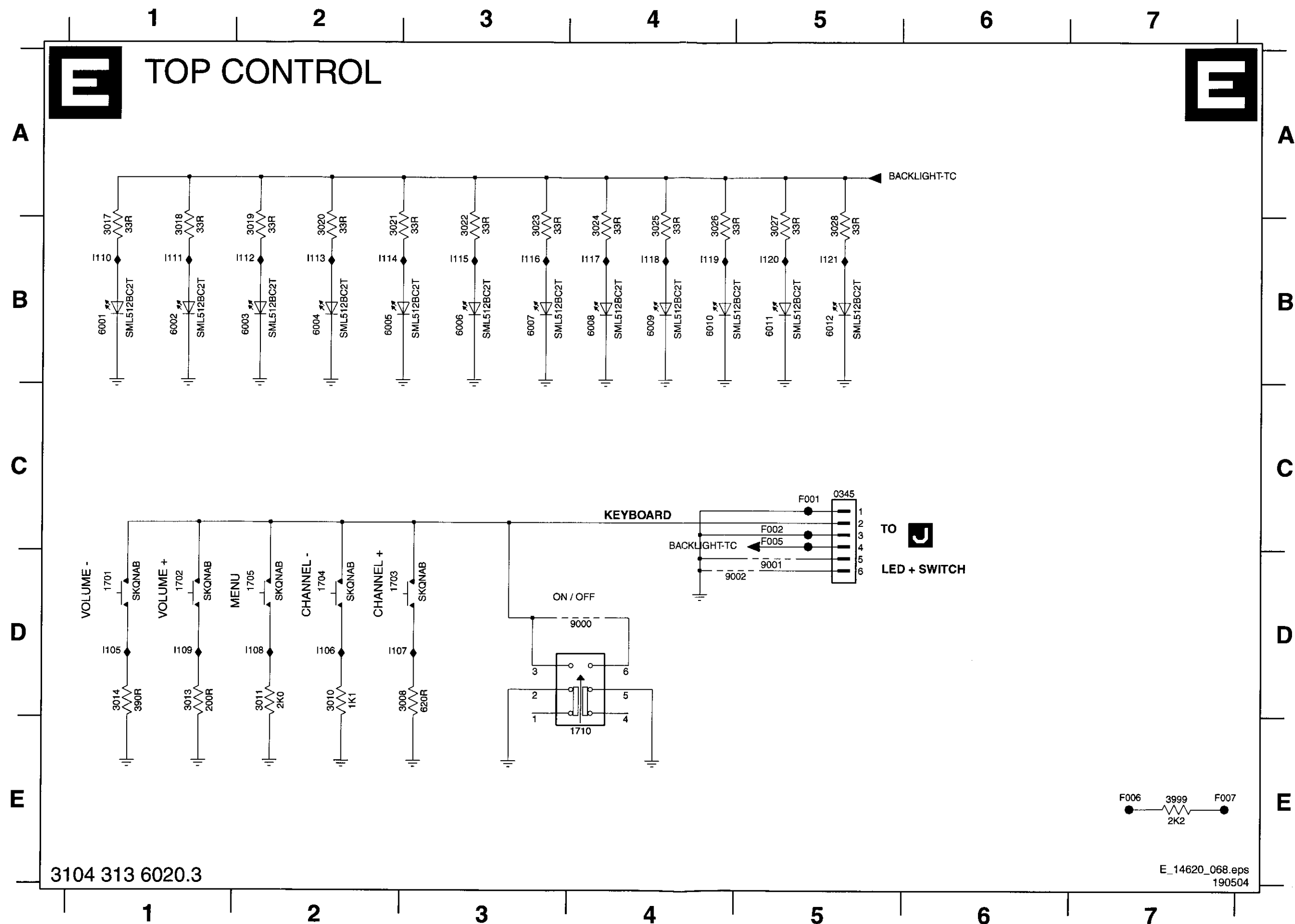
Layout Side I/O Panel (Top Side)



Layout Side I/O Panel (Bottom Side)



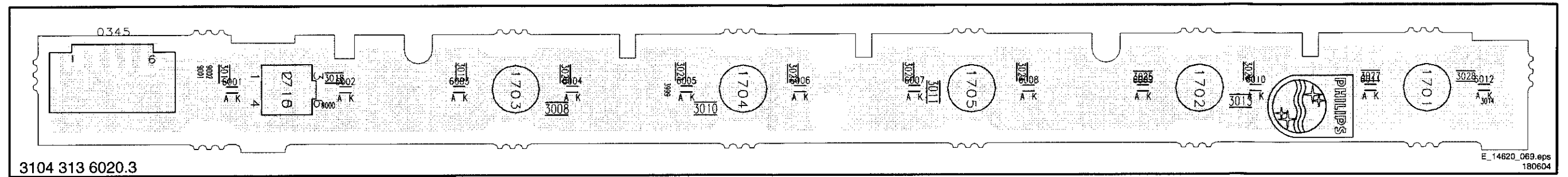
Top Control Panel



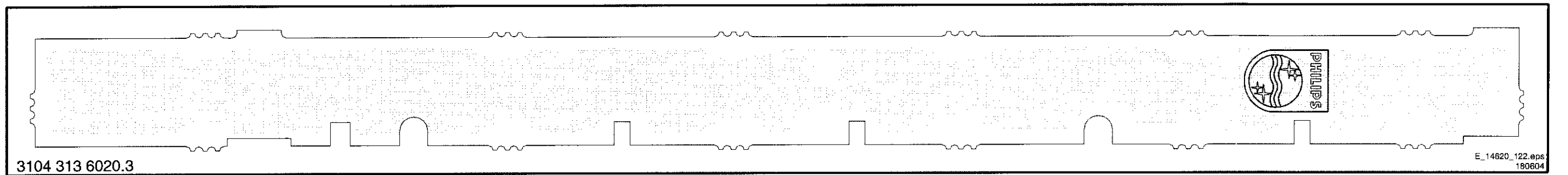
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1702 D1
1703 D2
1704 D2
1705 D2
1710 E4
3008 D3
3010 D2
3011 D2
3013 D1
3014 D1
3017 B1
3018 B1
3019 B2
3020 B2
3021 B2
3022 B3
3023 B3
3024 B4
3025 B4
3026 B4
3027 B5
3028 B5
3999 E7
6001 B1
6002 B1
6003 B2
6004 B2
6005 B2
6006 B3
6007 B3
6008 B4
6009 B4
6010 B4
6011 B5
6012 B5
9000 D4
9001 D5
9002 D5
F001 C5
F002 C5
F005 C5
F006 E7
F007 E7
I105 D1
I106 D2
I107 D2
I108 D2
I109 D1
I110 B1
I111 B1
I112 B2
I113 B2
I114 B2
I115 B3
I116 B3
I117 B4
I118 B4
I119 B4
I120 B5
I121 B5

Layout Top Control Panel (Top Side)

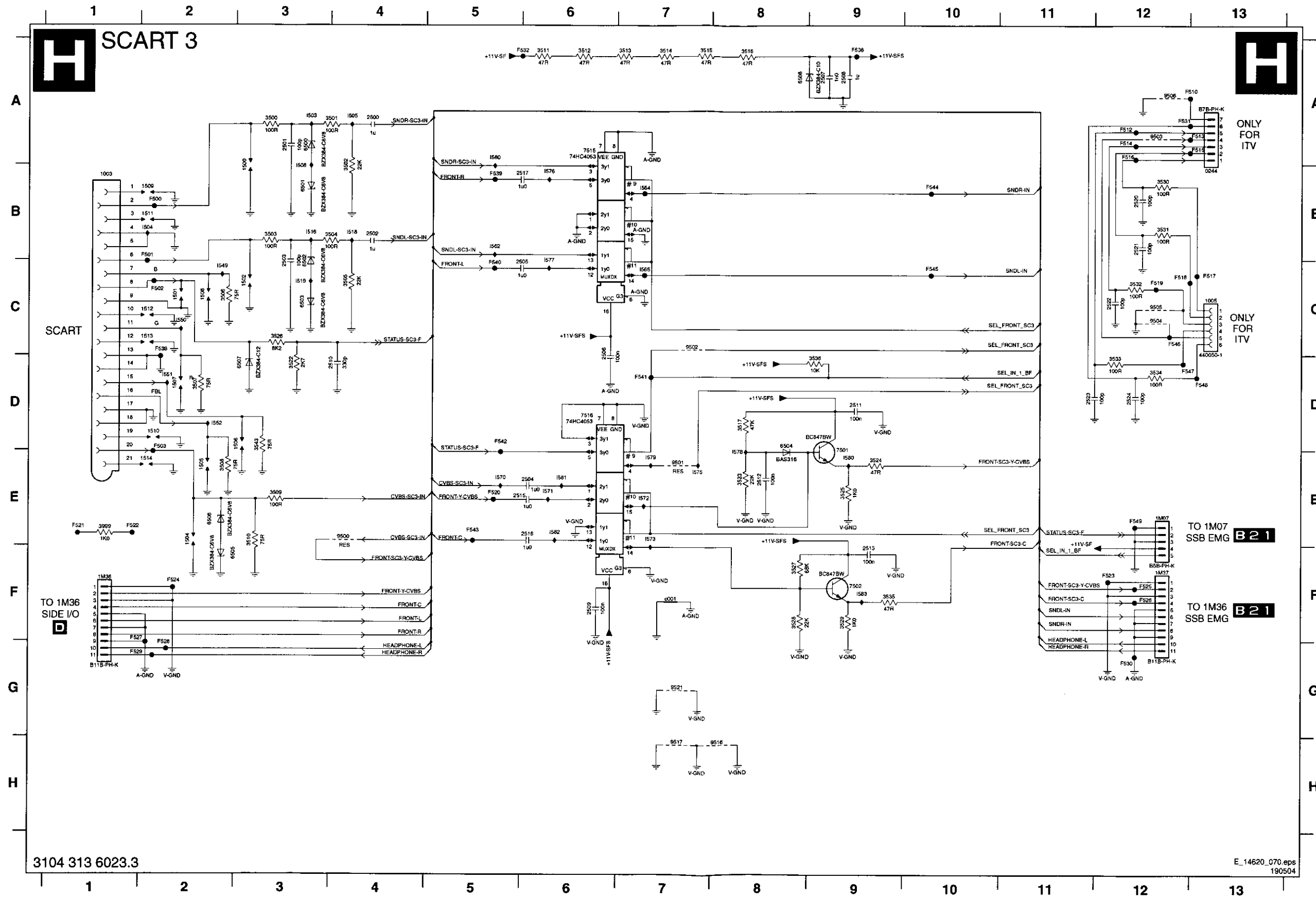
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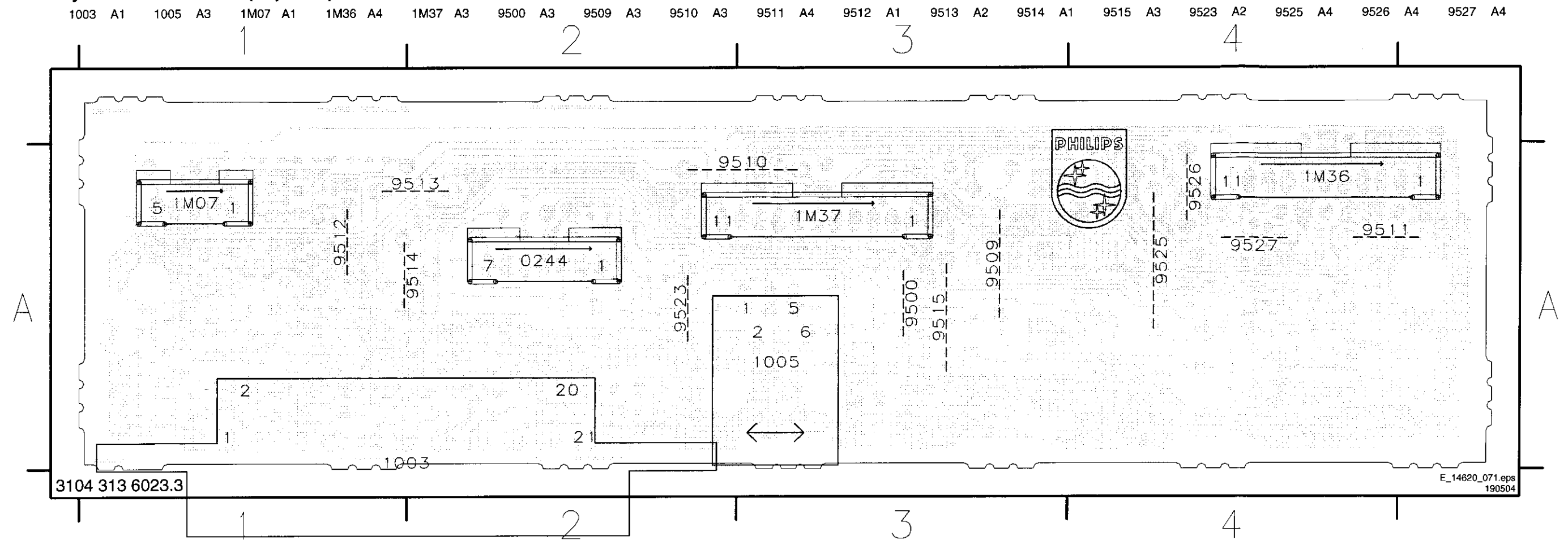
Layout Top Control Panel (Bottom Side)



SCART 3 Panel

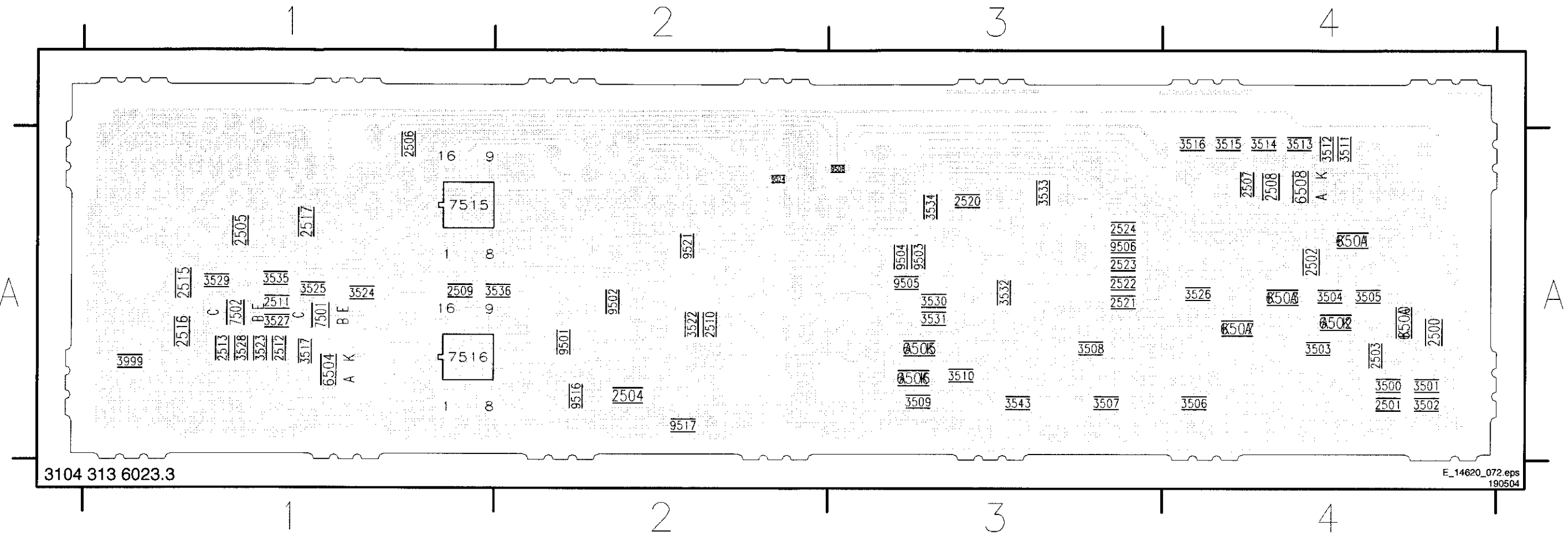


Layout SCART 3 Panel (Top Side)

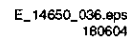


Layout SCART 3 Panel (Bottom Side)

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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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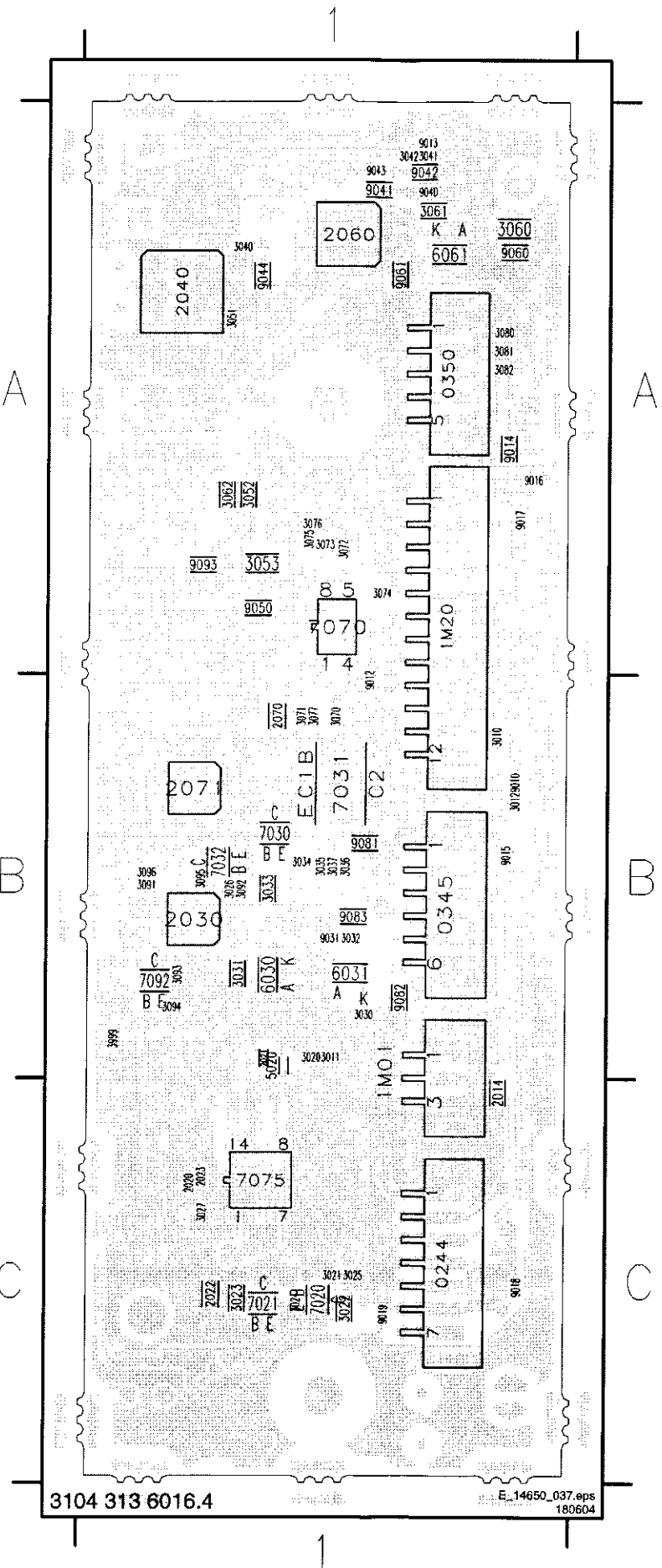


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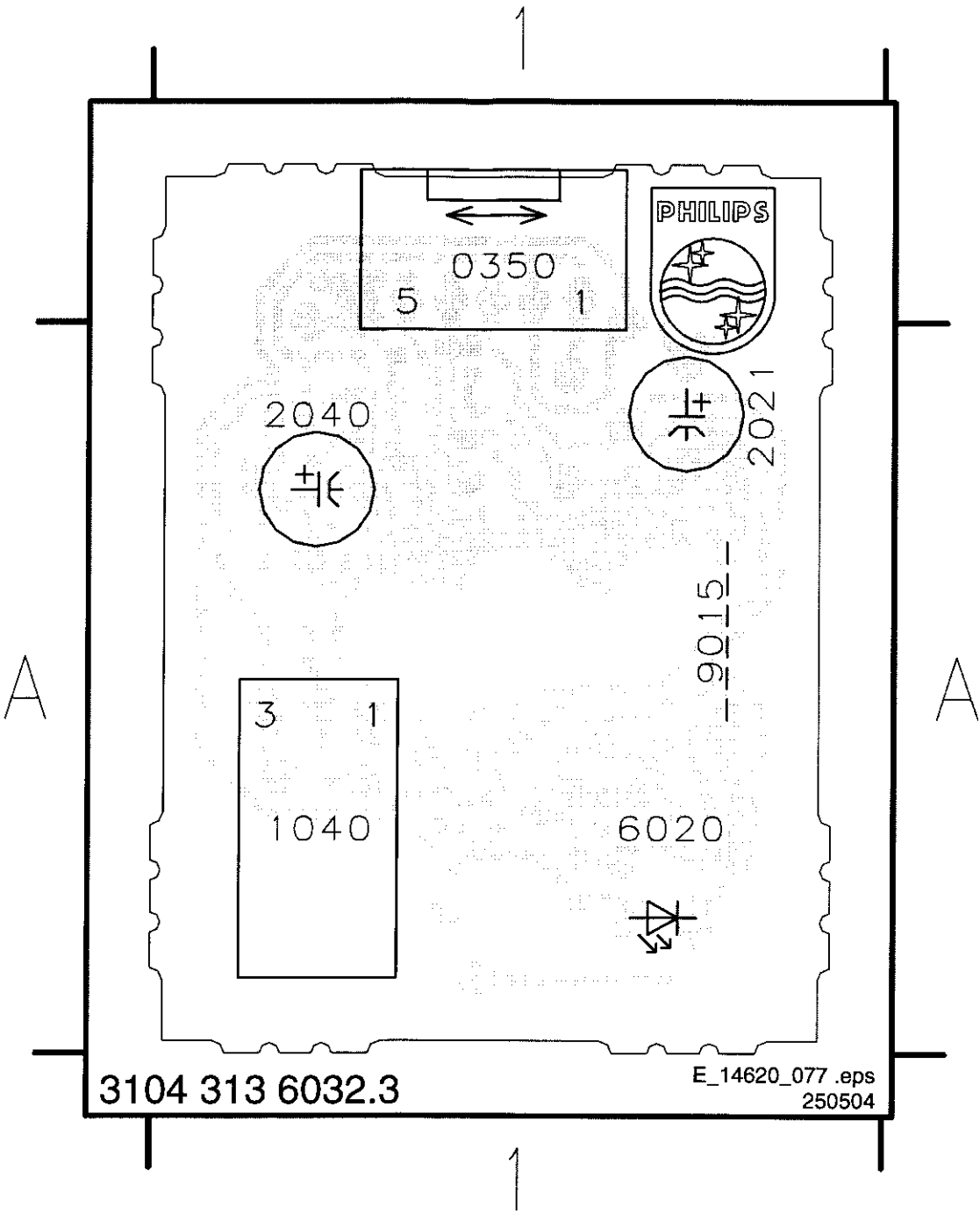
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0350 C11
1020 E2
1048 F8
1050 C1
1M20 A1
2014 D3
2020 F2
2021 E3
2022 F7
2023 F1
2030 I4
2040 F9
2050 E6
2070 F11
2071 G11
2010 B2
2011 A3
2012 B2
2020 E1
2021 E5
2022 E6
2023 E7
2024 E7
2025 E4
2026 F4
2027 E2
2030 H3
2031 H4
2032 H5
2033 H6
2034 H6
2035 H6
2036 H6
2037 H7
2040 E9
2041 F9
2042 F9
2051 E8
2052 B8
2053 C7
2060 C5
2061 B5
2070 G10
2071 G11
2072 G12
2073 G12
2074 F12
2075 F12
2076 G13
2080 C11
2081 C10
2082 C10
2081 H1
2092 G2
2093 H3
2094 G1
2095 I2
2096 H2
2097 H3
5020 D4
6030 H4
6031 I4
6051 C8
6060 C5
6061 B6
6070 G10
6080 F7
7020 E5
7021 F7
7030 H5
7031 H6
7032 I3
7070-2 F12
7075 E2
7076 E2
9010 C4
9012 B4
9013 E9
9014 C2
9015 A4
9016 A4
9017 A4
9018 C4
9019 C4
9021 H4
9020 I9
9041 F9
9042 G9
9043 F9
9044 E9
9045 C7
9060 C5
9061 B6
9081 B11
9082 B11
9083 C11
9093 H1
F010 A2
F011 A2
F012 A2
F013 B3
F014 B2
F015 A3
F016 B2

Layout LED and Switch Panel (Top Side)



- | | |
|---------|---------|
| 0244 C1 | 9012 B1 |
| 0345 B1 | 9013 A1 |
| 0350 A1 | 9014 A1 |
| 1040 A1 | 9015 B1 |
| 1M01 B1 | 9016 A1 |
| 1M20 A1 | 9017 A1 |
| 2014 C1 | 9018 C1 |
| 2020 C1 | 9019 C1 |
| 2021 B1 | 9031 B1 |
| 2022 C1 | 9040 A1 |
| 2023 C1 | 9041 A1 |
| 2030 B1 | 9042 A1 |
| 2040 A1 | 9043 A1 |
| 2060 A1 | 9044 A1 |
| 2070 B1 | 9050 A1 |
| 2071 B1 | 9060 A1 |
| 3010 B1 | 9061 A1 |
| 3011 B1 | 9081 B1 |
| 3012 B1 | 9082 B1 |
| 3020 B1 | 9083 B1 |
| 3021 C1 | 9093 A1 |
| 3022 C1 | |
| 3023 C1 | |
| 3024 C1 | |
| 3025 C1 | |
| 3026 B1 | |
| 3027 C1 | |
| 3030 B1 | |
| 3031 B1 | |
| 3032 B1 | |
| 3033 B1 | |
| 3034 B1 | |
| 3035 B1 | |
| 3036 B1 | |
| 3037 B1 | |
| 3040 A1 | |
| 3041 A1 | |
| 3042 A1 | |
| 3051 A1 | |
| 3052 A1 | |
| 3053 A1 | |
| 3060 A1 | |
| 3061 A1 | |
| 3062 A1 | |
| 3070 B1 | |
| 3071 B1 | |
| 3072 A1 | |
| 3073 | |

Layout Proximity Sensor (Top Side)

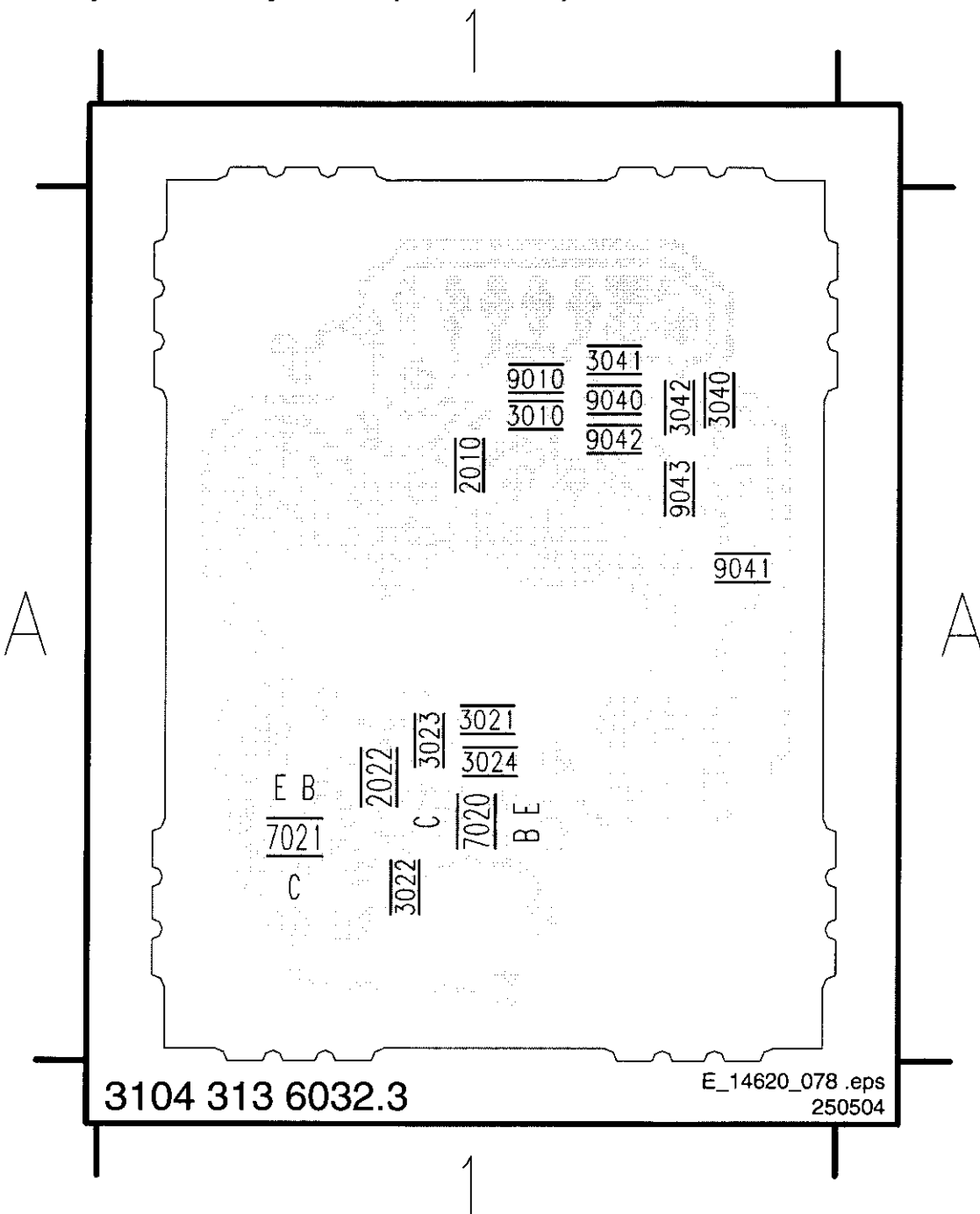


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- 1040 A1
- 2021 A1
- 2040 A1
- 6020 A1
- 9015 A1

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250504

Layout Proximity Sensor (Bottom Side)



- 0350 A1
- 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
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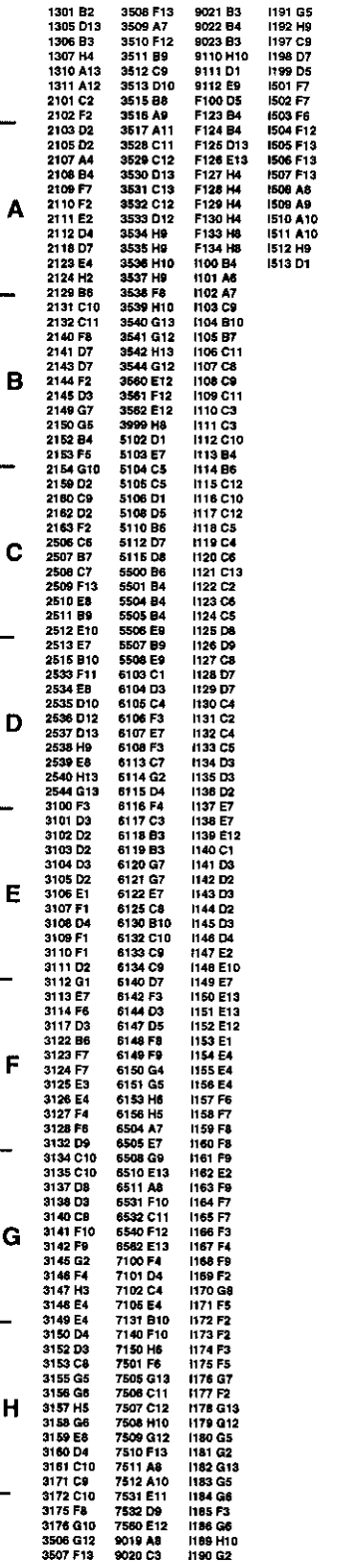
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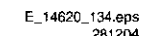
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1318 A5
1320 B9
1M03 B7
1M10 A9
1M46 D7
3190 D9
3191 D9
3192 D9
5018 C8
5019 D8
9001 E6
9002 B5
9003 B5
9004 C8
9005 D8
9006 C9
9007 C9
9008 A5
9009 A5
9010 C8
9011 D8
9018 B10
9113 B6
F101 B10
F102 A8
F103 A9
F104 A7
F105 A7
F106 A7
F107 B7
F108 B10
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

STANDBY

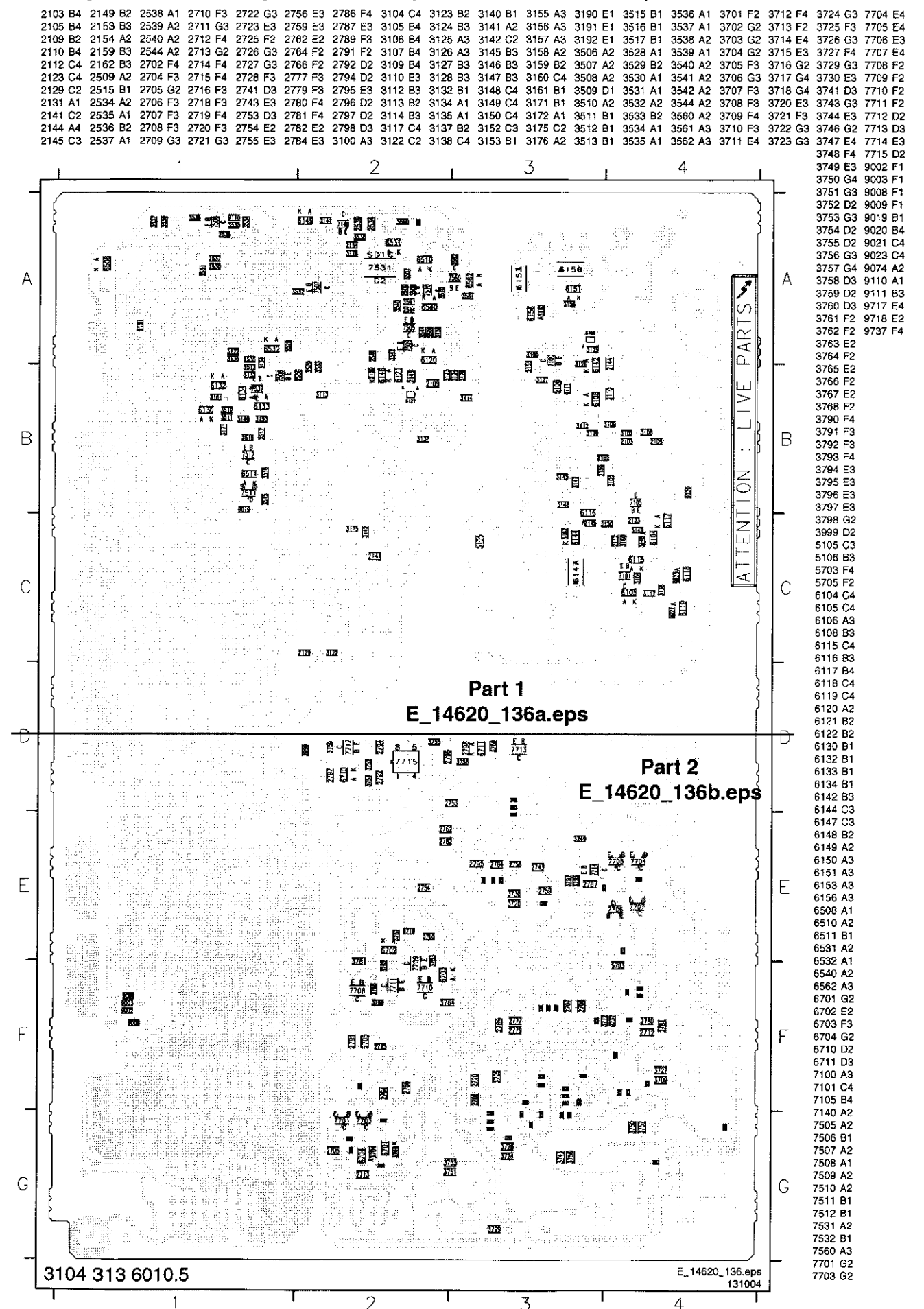
SA2



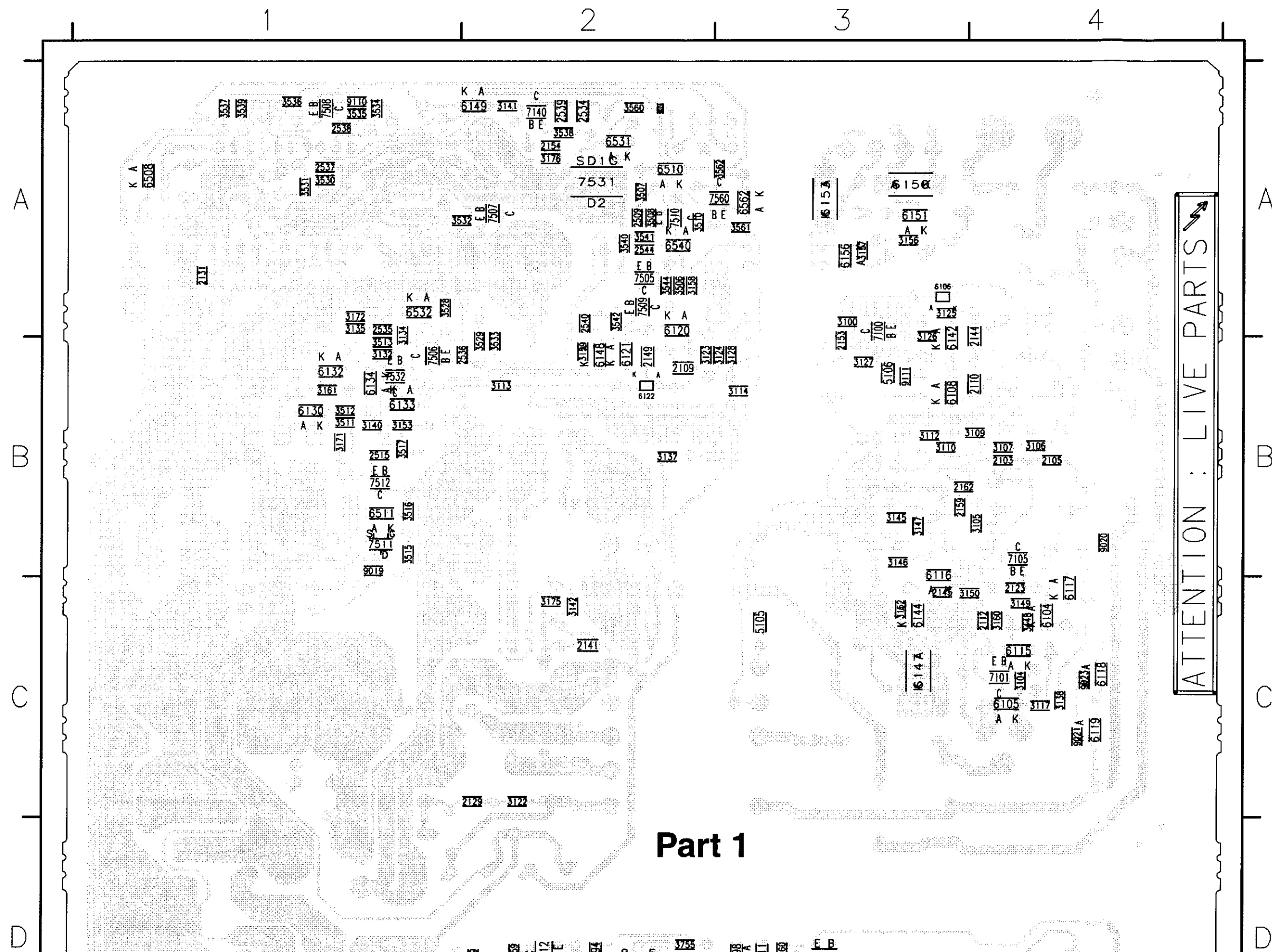
0044 F13	2705 A7	2715 F4	2725 E5	2758 G9	2780 E5	2790 E2	2701 E6	2711 D5	3722 C2	3744 G12	3755 B10	3765 C12	3796 E11	5711 D6	6703 C12	7706 C6	7715-2 C11	7720 G8	F743 B9	7703 B6	1713 A8	1723 B9	1733 C10	1743 C12	1753 B9	1763 C6	1773 F9	1784 B3	1795 F6
0045 B2	2706 A2	2716 E4	2726 E6	2759 G8	2781 D6	2791 C7	3702 B6	3712 D5	3723 C2	3746 C6	3756 F4	3766 D14	3797 C5	5712 D5	6704 B8	7707 C5	7717 B5	7721 G2	F744 B9	7704 A6	1714 C4	1724 D3	1734 F12	1744 D5	1754 C3	1764 C13	1774 F9	1785 B4	1796 C12
1735 F2	2707 C4	2717 G4	2728 G3	2762 E13	2782 D12	2792 C8	3703 A8	3713 D7	3724 F2	3747 C5	3757 G3	3767 B12	3798 D6	5720 F9	6710 D8	7708 C13	7718 B13	F722 F8	F745 A9	1706 D6	1716 A7	1726 E2	1736 D8	1746 A4	1756 F4	1766 D13	1776 E4	1786 B4	1797 C12
1736 G2	2708 A3	2718 E3	2729 F8	2764 B3	2783 C7	2793 D13	3704 B6	3714 D8	3725 E3	3748 C5	3758 G10	3768 A13	3799 F4	5722 D3	6711 E8	7709 C13	F708 F2	F731 G8	F747 B5	1707 D6	1716 E3	1726 G3	1736 E7	1746 D4	1756 F4	1766 G3	1776 D2	1786 C7	1797 C12
1737 F7	2709 B5	2719 F5	2730 G6	2765 F5	2784 F3	2794 B9	3705 B6	3715 D9	3726 E3	3749 C8	3759 B12	3769 C13	3799 F4	5723 D3	6712 E8	7710 C13	F709 G2	F732 G8	F748 A9	1708 D6	1717 D6	1727 E2	1737 E7	1747 D4	1757 F2	1767 E2	1777 D2	1787 C7	1797 C12
1738 F5	2710 D6	2720 F6	2731 G6	2766 F5	2785 B13	2795 D12	3706 E6	3716 B6	3727 F5	3749 C8	3759 B12	3769 C13	3799 F4	5724 D3	6713 E8	7711 B13	F711 A2	F737 G6	F749 A9	1709 D6	1718 B5	1728 E3	1738 G6	1748 B3	1758 E11	1768 G3	1778 C3	1788 C7	1799 E4
1739 F5	2711 E2	2721 C2	2732 B13	2767 D6	2786 B4	2796 D10	3707 E6	3717 F4	3728 G9	3751 G8	3761 A12	3792 C3	3799 F4	5725 D3	6714 E8	7712 B19	F712 A2	F738 F2	F751 F6	1710 E4	1719 B5	1729 C5	1739 G6	1749 C3	1759 E11	1769 F3	1779 E3	1789 C3	1799 B12
1740 A8	2712 D6	2722 D2	2734 D11	2777 D2	2787 C8	2797 D8	3708 E6	3718 G4	3730 F7	3752 C8	3762 B12	3793 B4	3799 F4	5726 D3	6715 E8	7713 B9	F713 C3	F739 G2	1700 E6	1710 F5	1720 C8	1730 B6	1740 C3	1750 E11	1760 G3	1770 C2	1780 C3	1790 F3	1799 B12
2702 C4	2713 B7	2723 F8	2734 F8	2768 F5	2787 F5	2797 E6	3709 E6	3719 G4	3731 G4	3753 C8	3763 B12	3794 B4	3799 F4	5727 D3	6716 E8	7714 B9	F714 C3	F740 G2	1701 E6	1711 F5	1721 C8	1731 B1	1741 E2	1751 C3	1761 D8	1771 C3	1781 C3	1791 B3	1799 B12
			2735 E11	2777 E3	2788 D2	2798 D13	3710 E6	3721 G4	3743 F4	3754 C8	3764 C12	3795 C6	3799 F4	5728 D3	6717 E8	7715 C9	F715 A2	F742 B9	1702 A6	1712 A5	1722 C8	1732 B6	1742 C12	1752 E12	1762 D11	1772 F8	1782 B3	1794 B12	



Layout LCD Standby Audio Panel (Overview Bottom Side)



Layout LCD Standby Audio Panel (Part 1 Bottom Side)



G



8. Alignments

Index of this chapter:

- 8.1 General Alignment Conditions
- 8.2 Hardware Alignments
- 8.3 Software Alignments
- 8.4 Option Settings

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: R_i > 10 Mohm, C_i < 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 EARM (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 I²C ICs in the set. To ensure good communication and to make digital diagnosis possible, the microprocessor has to know which ICs to address. The presence / absence of these specific ICs (or functions) is made known by the option codes.

Notes:

- After changing the option(s), save them with the STORE command.
- 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 AmbiLight 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 peripheral 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	Feature 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)	Chassis/Region	Chassis	0= EM6, 256= EM5, 512= EM3	FTx2.x= EM6
	8 (256)				
	9 (512)				
	10 (1024)				
	11 (2048)				
	12 (4096)	Teletext	n.a.		
	13 (8192)		Flash RAM	0= No, 8192= Yes	NexTVview type 2C3 and 2 need a Flash RAM.
	14 (16384)		NexTVview type	0= None, 16384= Textguide only, 32768= NexTVview 2C3, 49152= NexTVview 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)	Display	n.a.		
	8 (256)		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)	Miscellaneous	Monitor	0= No, 1024= Yes	Reserved for Flat TV monitor.
	11 (2048)		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)		Integrated 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)	Personal	Anti Aging	0= No, 4096= Yes	Fixed to: "Yes" for FTV.
	13 (8192)		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)	Miscellaneous	Virgin Mode	0= No, 64= Yes	
	7 (128)		Hotel Mode	0= No, 128= Yes	
	8 (256)		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, 426, 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:

- 9.1 Introduction
- 9.2 Power Supply LCD
- 9.3 Video
- 9.4 Synchronisation
- 9.5 Audio
- 9.6 Control
- 9.7 Proximity Sensor (if present)
- 9.8 Ambient Light (if present)
- 9.9 Software Upgrading
- 9.10 Abbreviation list
- 9.11 IC Data Sheets

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):

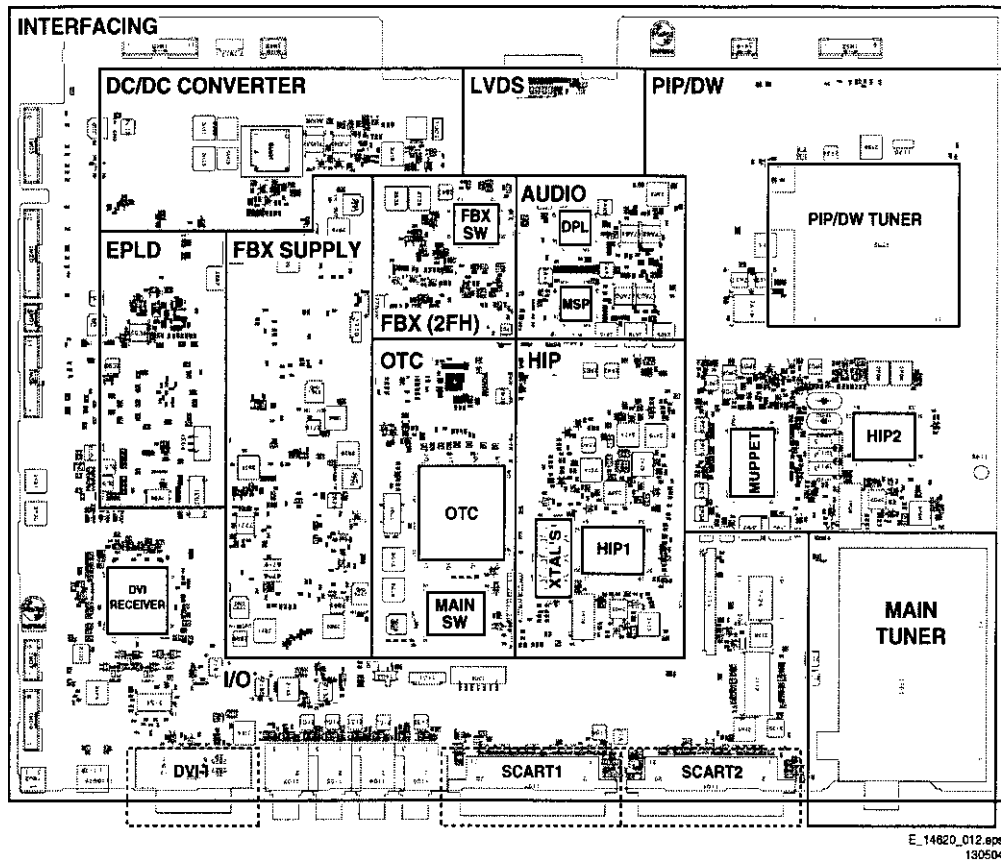


Figure 9-1 SSB top view

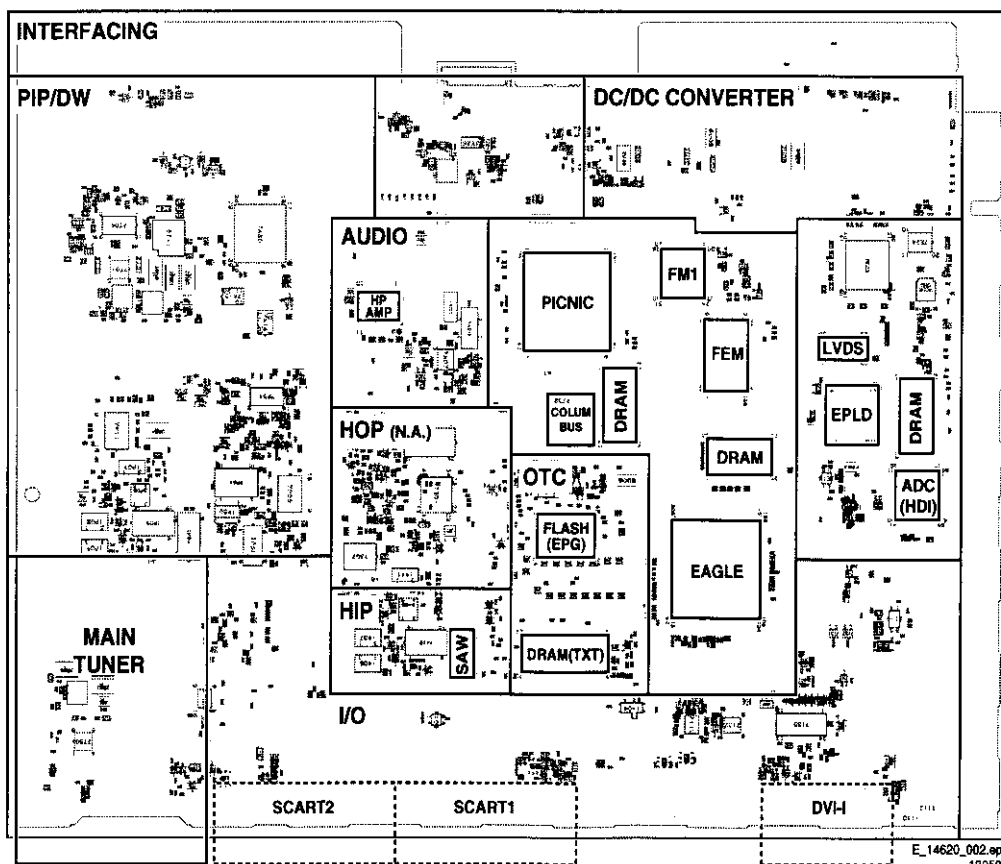


Figure 9-2 SSB bottom view

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".

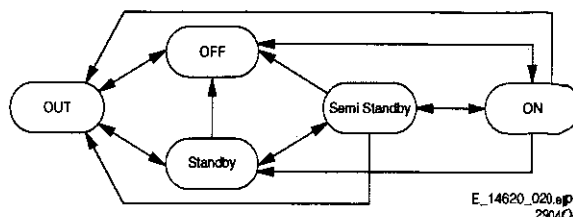
Table 9-1 Power states

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".



E_14620_020.eps
290404

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:

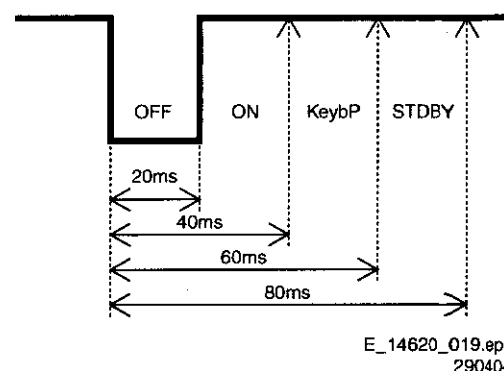


Figure 9-6 Pulses proximity microprocessor.

- 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.

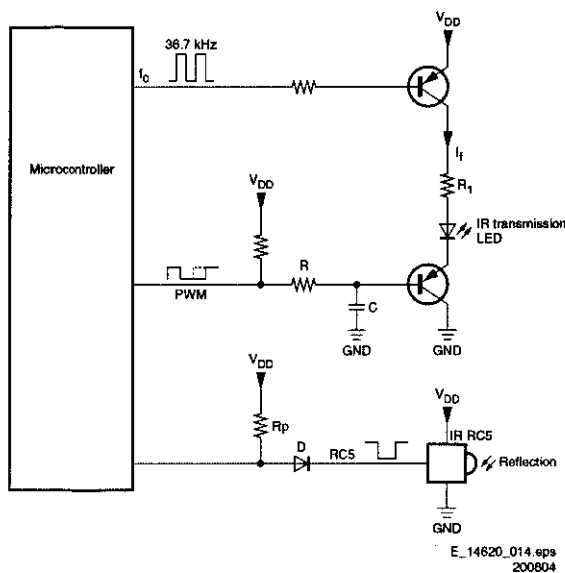


Figure 9-7 Emitting and detecting diagram

Emitting phase

IR Transmission (f_0)

The IR transmission is realised with diode D6080 (TSAL5300). This IR emitting diode is modulated with a 36.7 kHz signal. This frequency (f_0) 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 ($T_0 = 1/f_0$) 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 tends to "1"). The average PWM signal is realised with a RC filter.

The maximum power depends on the forward current (I_f) 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 (f_0). 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.

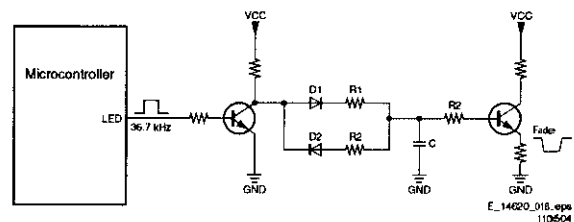


Figure 9-8 Fade in/out circuitry

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.

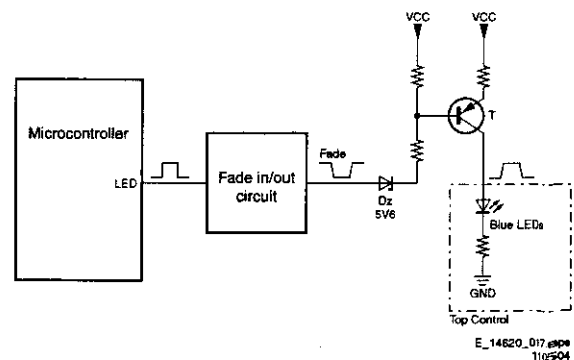


Figure 9-9 LED driver circuitry

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.

9.8.2 Block diagram

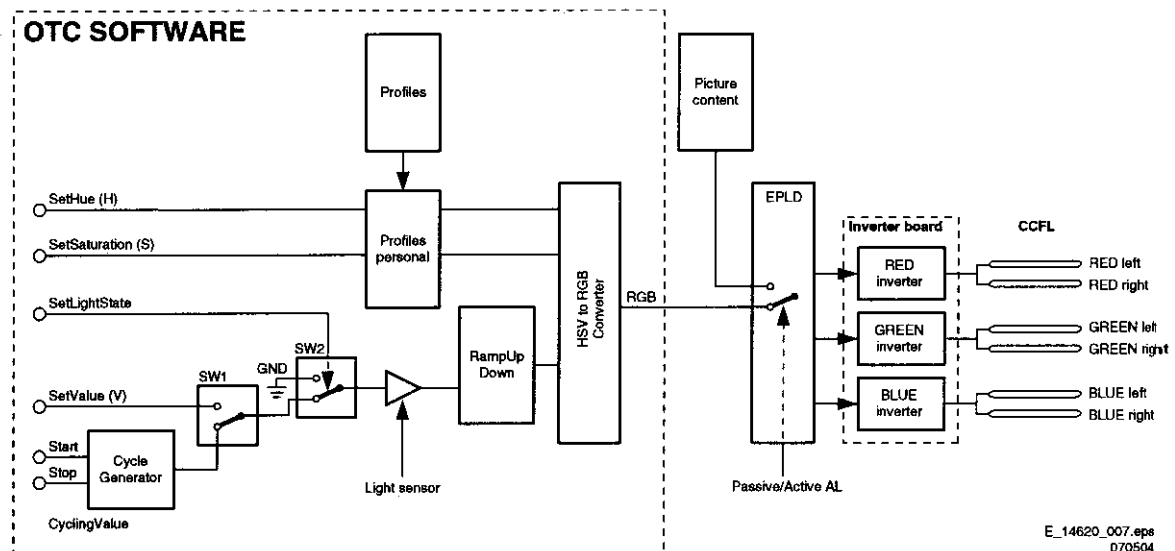


Figure 9-10 Ambient light block diagram

All mentioned blocks (from "Cycle Generator" to "HSV-to-RGB Converter" are implemented in the main software. Via I²C, the RGB values are sent to the EPLD (where a selection is made between "active" and "passive" mode) and again via I²C 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.

- 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).

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

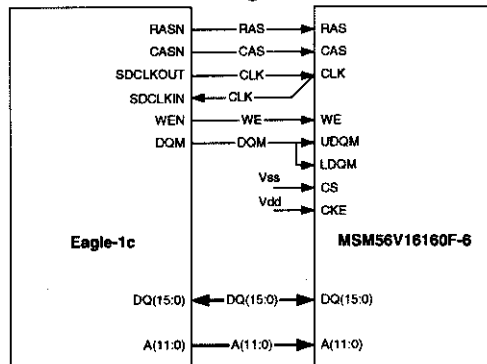
1080i	1080 visible lines, interlaced
1080p	1080 visible lines, progressive scan
2DNR	Spatial (2D) Noise Reduction
3DNR	Temporal (3D) Noise Reduction
AARA	Automatic Aspect Ratio Adaptation: algorithm that adapts aspect ratio to remove horizontal black bars; keeping up the original aspect ratio
ACI	Automatic 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	I/O	Input/Output
DSP	Digital Signal Processing	i ² C	Inter IC bus (also called IIC)
DST	Dealer Service Tool: special remote control designed for dealers to enter e.g. service mode	IF	Intermediate Frequency
DVD	Digital Versatile Disc	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
DVI(-d)(-i)	Digital Visual Interface (d= digital only) (= integrated); a digital video interface to a display, designed to replace the analogue YPbPr or RGB interface	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 to the customers wishes
Eagle	Feature box IC performing peaking, zooming and sub pixel LTI in both horizontal and vertical direction, CTI and other colour features	LCD	Liquid Crystal Display
EDID	Extended Display Identification Data (VESA standard)	LPL	LG-Philips LCD
EEPROM	Electrically Erasable and Programmable Read Only Memory	LED	Light Emitting Diode
EHT	Extra High Tension	L/L'	Monochrome TV system. Sound carrier distance is 6.5 MHz. L' is Band I, L is all bands except for Band I
EPG	Electronic Program Guide: system used by broadcasters to transmit TV guide information (= NexTVView)	LNA	Low Noise Adapter
EPLD	Erasable Programmable Logic Device	LORE	LOcal REgression based noise reduction
EU	EUrope	LSP	Large signal panel
EXT	External (source), entering the set via SCART or via cinches	LVDS	Low Voltage Differential Signalling; Data transmission system for high speed and low EMI communication
FALCONIC	SAA4992H, Feature Box IC performing Digital Natural Motion, 3DNR, and vertical zoom and vertical peaking	M/N	Monochrome TV system. Sound carrier distance is 4.5 MHz. M= 525 lines @ 60 Hz, N= 625 lines @ 50 Hz
FBL	Fast Blanking: DC signal accompanying RGB signals	MSP	Multi-standard Sound Processor: ITT sound decoder of EN5E
FBL-PIP	The fast blanking signal for PIP	MUTE	Mute-Line
FBL-TXT	The fast blanking signal for TXT. It has a higher priority than FBL-PIP	NC	Not Connected
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)	NICAM	Near Instantaneously Companded Audio Multiplexing; This is a digital sound system, mainly used in Europe
FDS	Full Dual Screen	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)
FEM	Falconic Embedded Memory; IC (SAA4998H) that is the successor of the SAA4993H with jagged line removal and embedded memory	NVM	Non Volatile Memory; IC containing TV related data e.g. alignments
FHP	Fujitsu Hitachi Plasma display Ltd.	O/C	Open Circuit
FLOF	Full Level One Features, TXT standard	ON/OFF LED	On/Off control signal for the LED
FLASH	Flash memory	OSD	On Screen Display
FM	Field Memory or Frequency Modulation	OTC	On screen display Tee text and Control; also named Artistic (SAA5800)
G-TXT	Green teletext	P50	Project 50 communication: protocol between TV and peripherals
GND-DRIVE	A separate ground for the line drive towards the line driver	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)
HA	Horizontal Acquisition: horizontal sync pulse coming out of the HIP	PCB	Printed Circuit Board
HD at HOME	A signal from the OTC, to switch the HOP to the Pixel Plus standard (75 Hz frame)	PDP	Plasma Display Panel
HIP	High-end video Input Processor (TDA9320): video and chroma decoder of EM5E	PFC	Power Factor Corrector (or Pre-conditioner)
HOP	High-end video Output Processor (TDA9330): video, sync, and geometry controller of EM5E	PICNIC	Peripheral Integrated Combined Network IC (SAA497): main IC for 100 Hz featuring and feature processing
HP	Head phone	PIP	Picture In Picture
I	Monochrome TV system. Sound carrier distance is 6.0 MHz. VHF- and UHF-band	PLL	Phase Locked Loop; used for e.g. FST tuning systems. The customer can directly provide the desired 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	POR	Power On Reset; Signal to reset the μ P

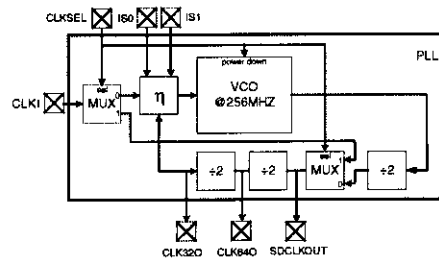
Progressive Scan	Scan mode where all scan lines are displayed in one frame at the same time, creating a double vertical resolution.	Y100	Y from Feature Box
PSU	Power Supply Unit	YPbPr	This is a scaled version of the YUV colour space. Y= Luminance, Pb/Pr= Colour difference signals B-Y and R-Y, other amplitudes w.r.t. to YUV
PWB	Printed Wiring Board	Y-OUT	Luminance-signal to HOP IC
RAM	Random Access Memory	YUV	Colour space used by the NTSC and PAL video systems. Y is the luminance and U/V are the colour difference signals
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 ² C bus		
SD	Standard Definition		
SDA-F	Data signal on fast I ² C 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		

9.11.3 Diagram B3C, T6TX5EF (IC7720)

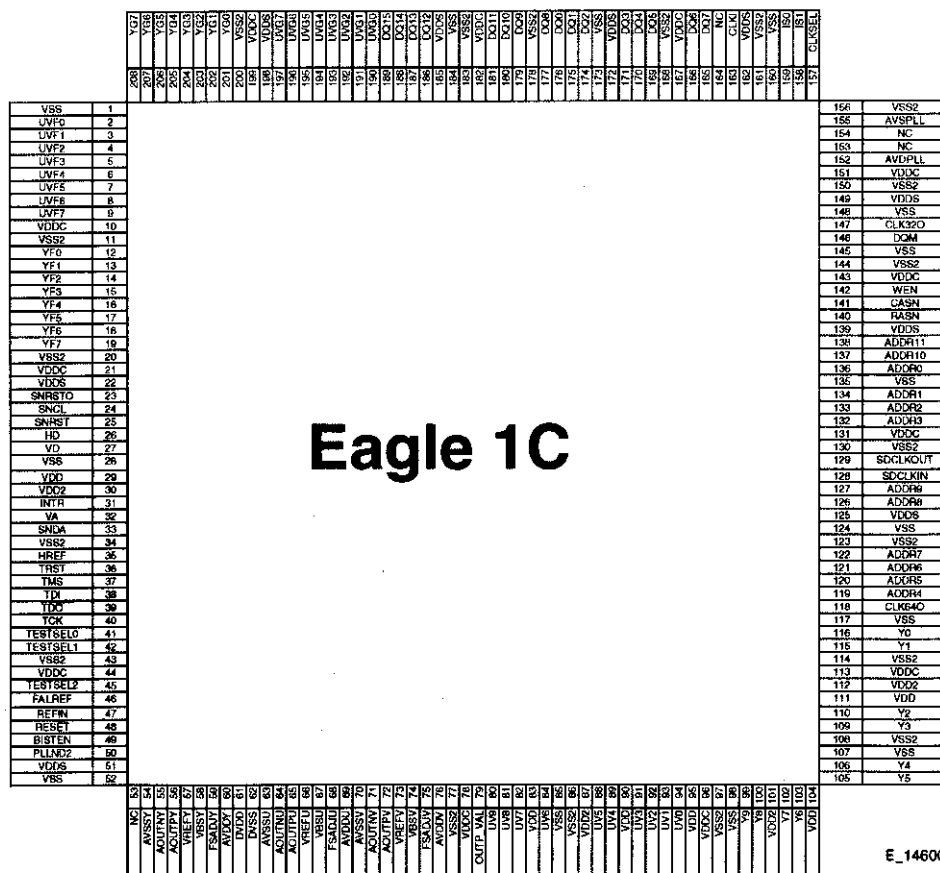
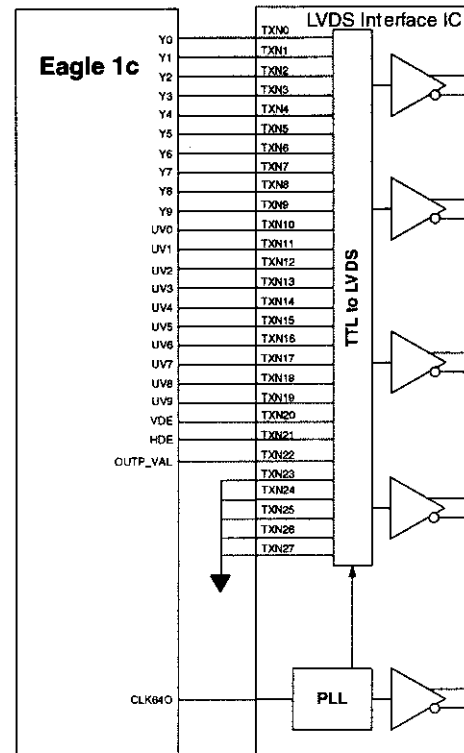
Interface between Eagle and External SDRAM



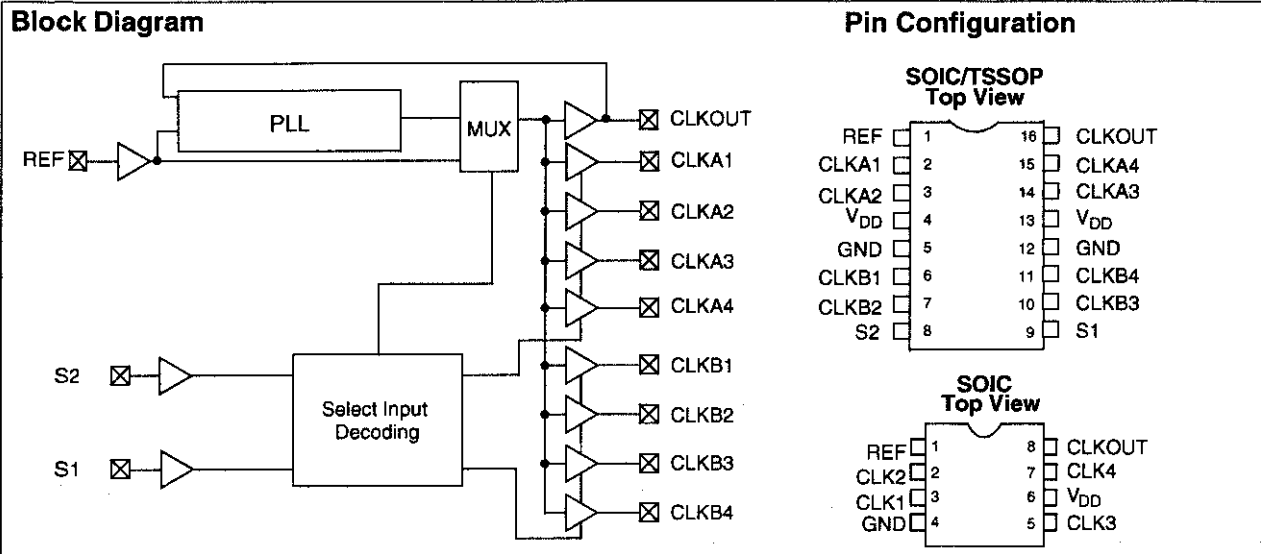
Internal Clock generation



EAGLE IC digital output interface to LVDS device



9.11.4 Diagram B3C, CY2305SC-1 (IC7721)

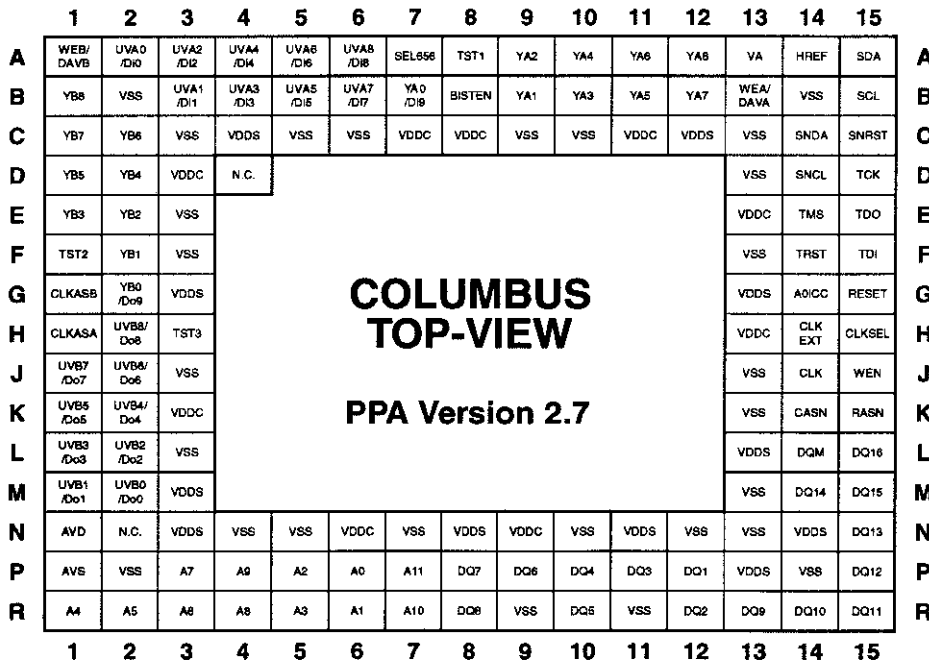


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Figure 9-14 Internal block diagram and pin configuration.

9.11.5 Diagram B3D, T6TU5XB (IC7752)

Figure 1 Package outline (top view)



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Figure 9-15 Pin configuration

9.11.6 Diagram B6B, MAS3528E (IC7A30)

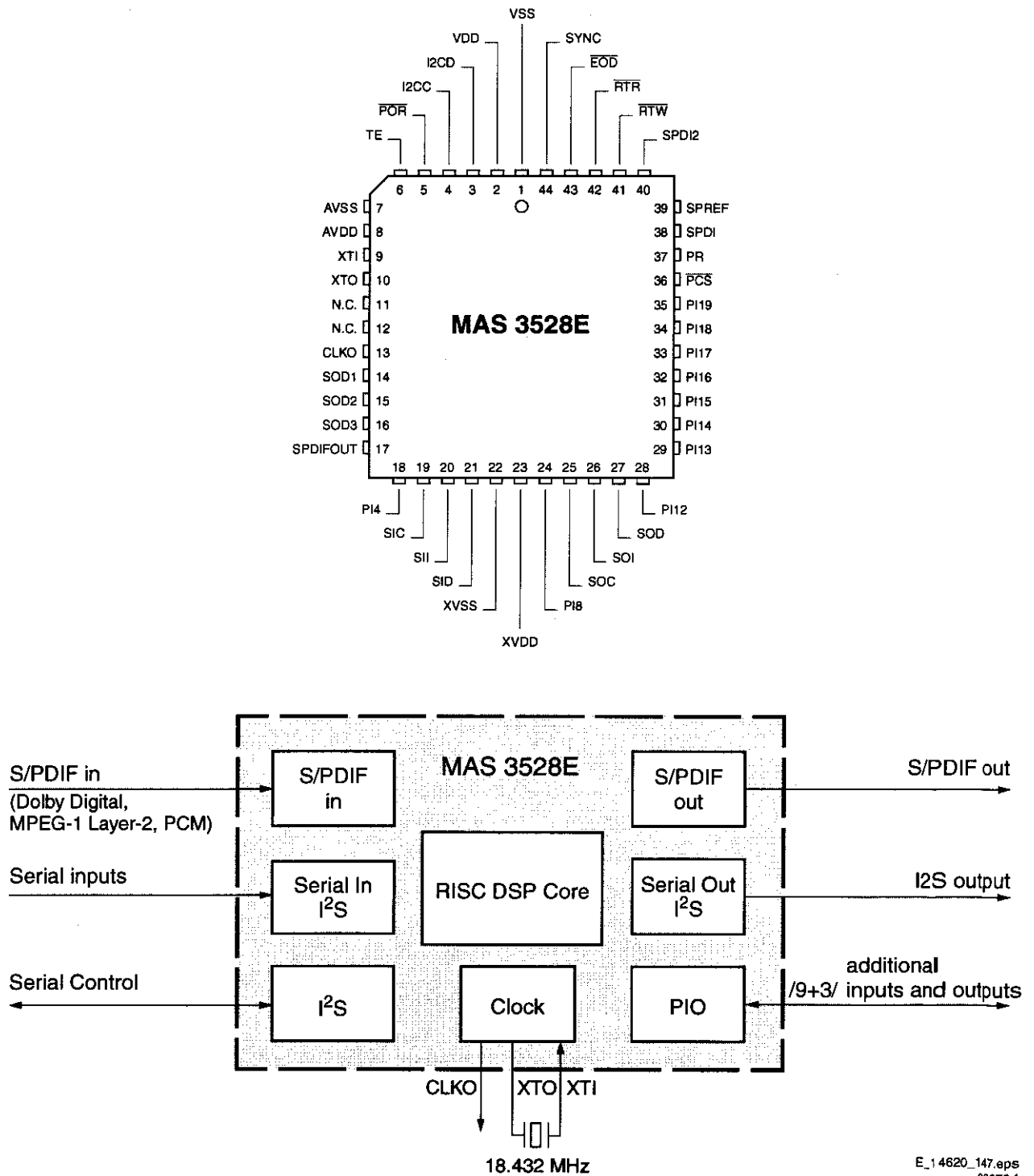
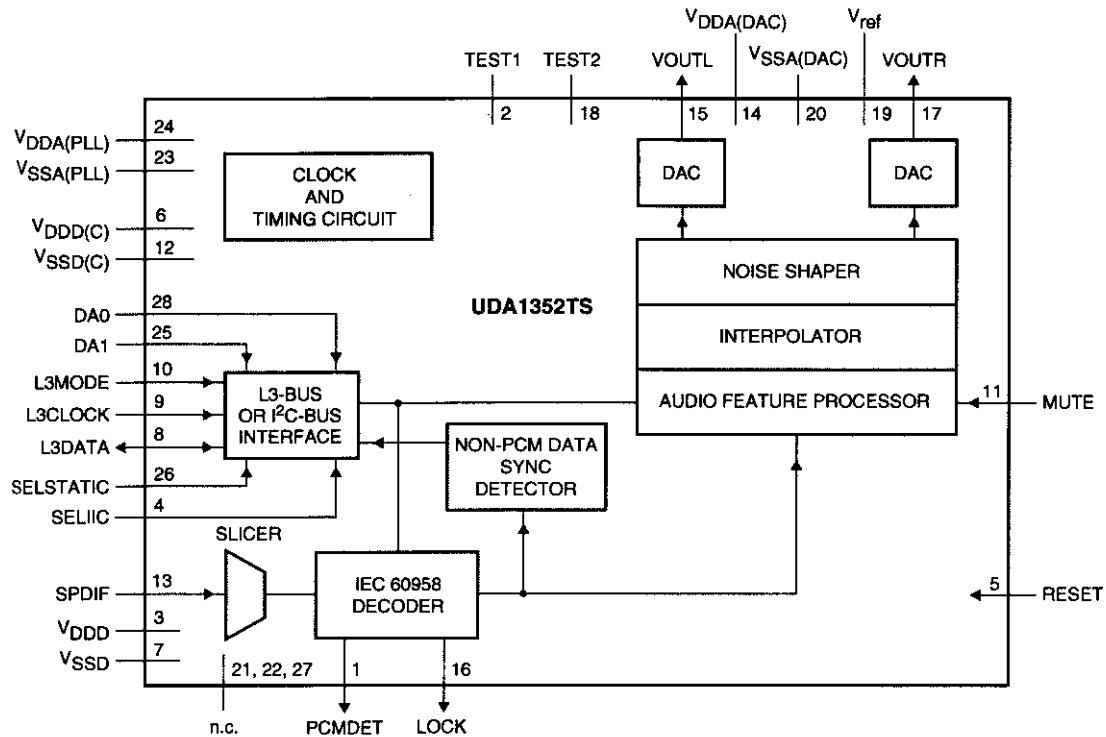


Figure 9-16 Internal block diagram and pin configuration

9.11.7 Diagram B14D, UDA1352TS (IC7I25)

BLOCK DIAGRAM



PIN CONFIGURATION

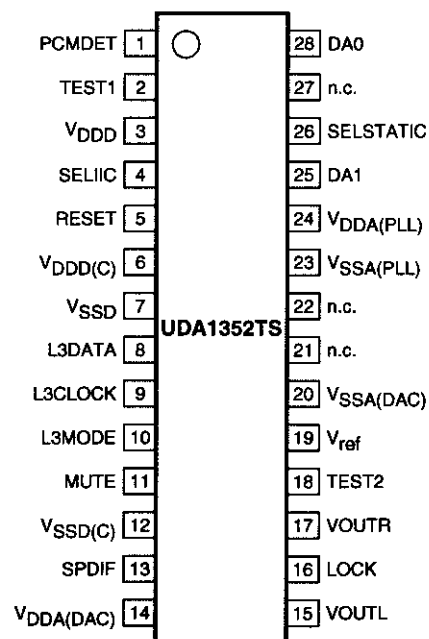
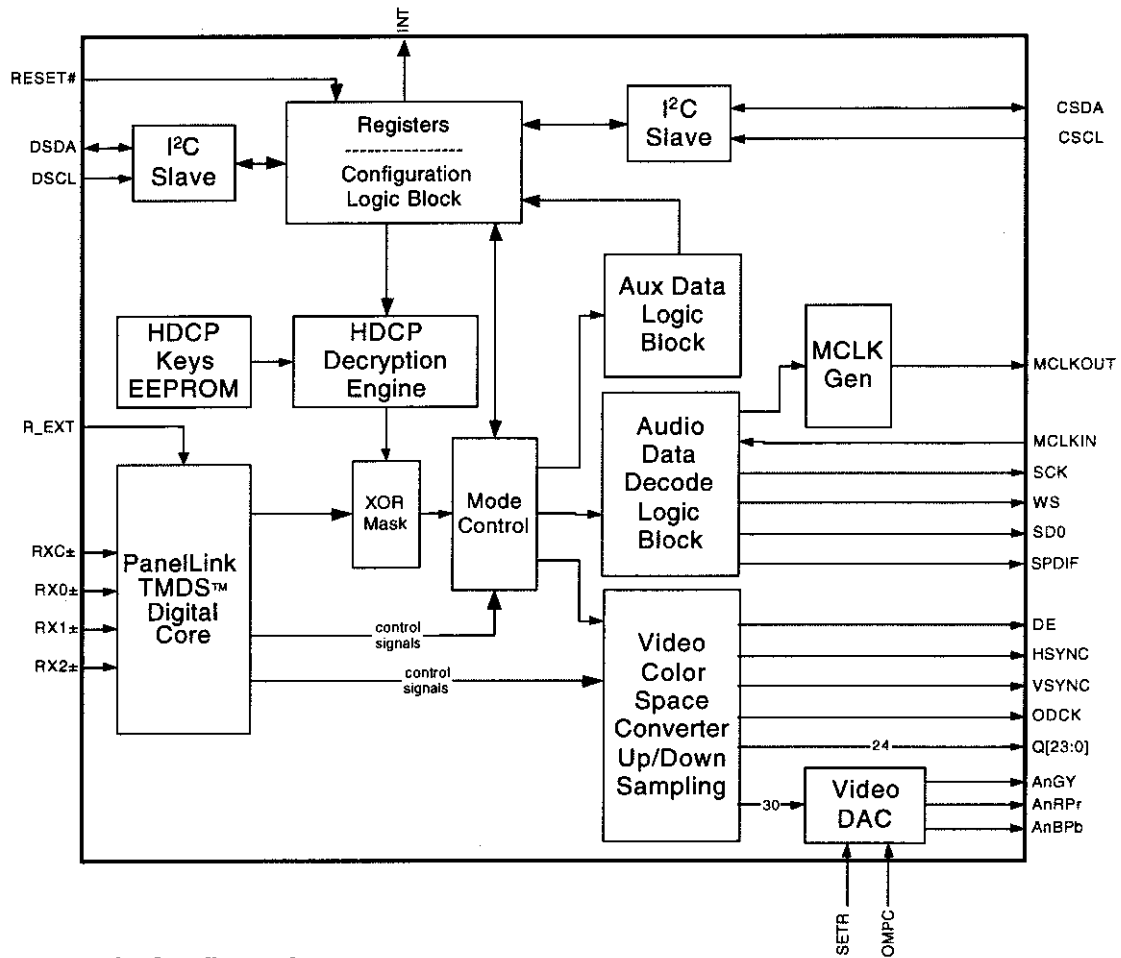
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Figure 9-17 Internal block diagram and pin configuration

9.11.8 Diagram B14F, Sil9993CT100 (IC7118)

Block Diagram



Pin Configuration

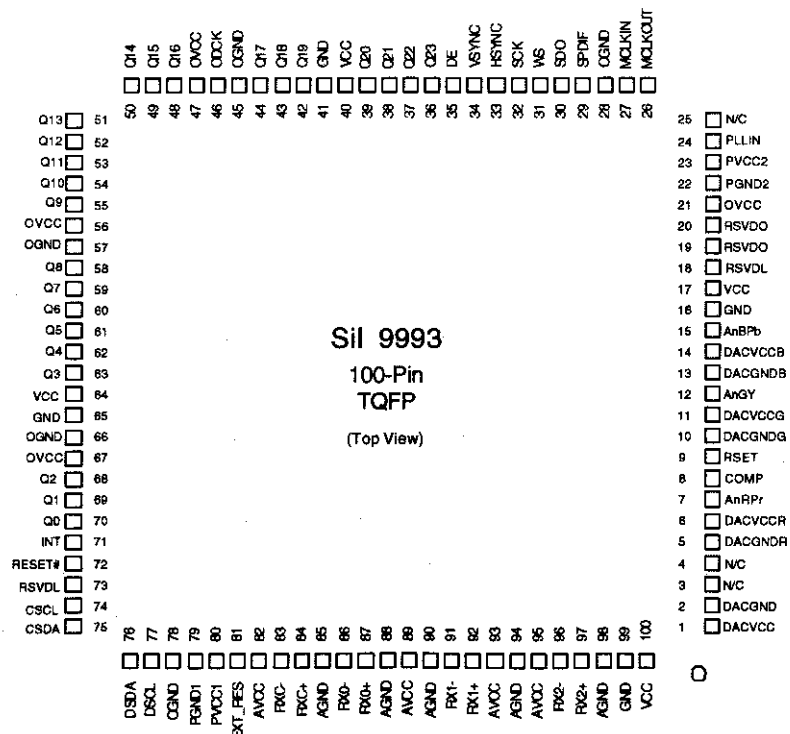
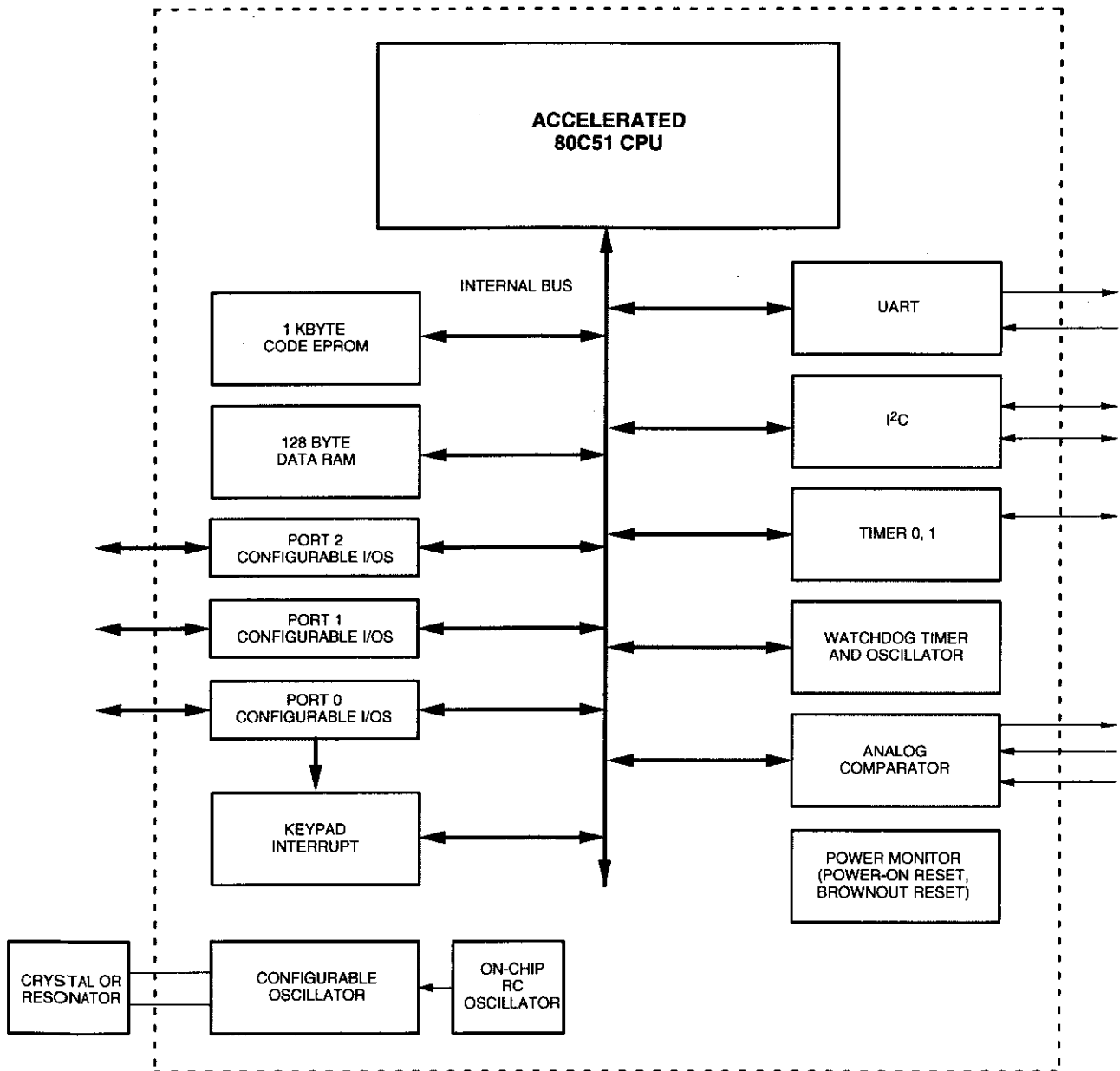


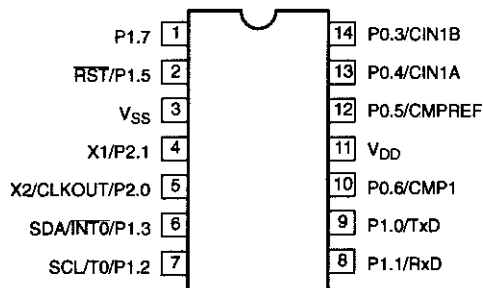
Figure 9-18 Internal block diagram and pin configuration

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

—II—

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 10% 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 1% 63V
2U26	4822 126 14238	2.2nF 50V 0603
2U27	3198 017 31530	15nF 10% 50V 0603
2U29	5322 126 11578	1nF 1% 50V 0603
2U32	4822 126 13193	4.7nF 10% 63V
2U33	4822 121 51319	1μF 1% 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 1% 50V 0603
2U46	3198 017 34730	47nF 1% 50V 0603
2U47	5322 126 11583	10nF 10% 50V 0603
2U48	5322 126 11578	1nF 1% 50V 0603
2U50	5322 126 11578	1nF 1% 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 1% 50V 0603
2U72	5322 126 11578	1nF 1% 50V 0603
2U77	4822 126 14238	2.2nF 50V 0603

3002	4822 051 30103	10kΩ 5% 0.062W	3406▲	4822 052 10101	100kΩ 5% 0.33W	5017	4822 526 10704	Bead 50 Ω at 100MHz
3002	4822 051 30393	39kΩ 5% 0.062W	3407▲	4822 052 10101	100kΩ 5% 0.33W	5025	4822 157 11411	Bead 80Ω at 100MHz
3003	4822 117 13632	100kΩ 1% 0.603 0.62W	3810	2322 257 41123	12kΩ 5% 5W	5026	4822 157 11411	Bead 80Ω at 100MHz
3004	4822 051 30273	27kΩ 5% 0.062W	3999	4822 051 30102	1kΩ 5% 0.062W	5026	4822 526 10704	Bead 50 Ω at 100MHz
3005	4822 051 30333	33kΩ 5% 0.062W	3B92	4822 051 30561	560Ω 5% 0.062W	5027	4822 157 11411	Bead 80Ω at 100MHz
3006	4822 051 30103	10kΩ 5% 0.062W	3D00▲	2122 550 00158	VDR 1mA 612V	5028	4822 157 11411	Bead 80Ω at 100MHz
3007	4822 051 30103	10kΩ 5% 0.062W	3D04	4822 116 83872	220Ω 5% 0.5W	5028	4822 526 10704	Bead 50 Ω at 100MHz
3008	4822 051 30331	330Ω 5% 0.062W	3H10	2322 257 41123	12kΩ 5% 5W	5029	4822 526 10704	Bead 50 Ω at 100MHz
3009	4822 051 30332	3.3kΩ 5% 0.062W	3U00▲	4822 052 10478	4.7kΩ 5% 0.33W	5030	4822 526 10704	Bead 50 Ω at 100MHz
3010	4822 051 30471	47kΩ 5% 0.062W	3U01	4822 051 30101	100Ω 5% 0.062W	5031	4822 526 10704	Bead 50 Ω at 100MHz
3011	4822 051 30471	47kΩ 5% 0.062W	3U02	4822 051 30103	10kΩ 5% 0.062W	5032	4822 526 10704	Bead 50 Ω at 100MHz
3012	4822 051 30153	15kΩ 5% 0.062W	3U03	4822 117 13632	100kΩ 1% 0.603 0.62W	5033	4822 526 10704	Bead 50 Ω at 100MHz
3013	4822 051 30103	10kΩ 5% 0.062W	3U04	4822 051 30273	27kΩ 5% 0.062W	5034	4822 526 10704	Bead 50 Ω at 100MHz
3014▲	4822 052 10101	100kΩ 5% 0.33W	3U05	4822 051 30333	33kΩ 5% 0.062W	5040	4822 157 11411	Bead 80Ω at 100MHz
3015▲	4822 052 10479	47kΩ 5% 0.33W	3U06	4822 051 30103	10kΩ 5% 0.062W	5041	4822 526 10704	Bead 50 Ω at 100MHz
3016	4822 051 30222	2.2kΩ 5% 0.062W	3U07	4822 051 30103	10kΩ 5% 0.062W	5291	2422 536 00776	33μH 10%
3016	4822 051 30332	3.3kΩ 5% 0.062W	3U08	4822 051 30331	330Ω 5% 0.062W	5292	2422 536 00776	33μH 10%
3017▲	4822 052 10101	100kΩ 5% 0.33W	3U09	4822 051 30332	3.3kΩ 5% 0.062W	5293	2422 536 00776	33μH 10%
3018▲	4822 052 10479	47kΩ 5% 0.33W	3U10	4822 051 30471	47kΩ 5% 0.062W	5400▲	4822 157 11523	Line filter 5mH/2A
3019	4822 051 30222	2.2kΩ 5% 0.062W	3U11	4822 051 30471	47kΩ 5% 0.062W	5401▲	2422 549 43291	Filter 47mH 2A
3019	4822 051 30332	3.3kΩ 5% 0.062W	3U12	4822 051 30153	15kΩ 5% 0.062W	5402▲	2422 549 43291	Filter 47mH 2A
3020	4822 051 30222	2.2kΩ 5% 0.062W	3U13	4822 051 30103	10kΩ 5% 0.062W	5403▲	3104 308 21101	Coil DTH40203H65
3020	4822 051 30332	3.3kΩ 5% 0.062W	3U14▲	4822 052 10101	100kΩ 5% 0.33W	5403▲	3104 308 21191	Coil DTH40323H65
3021	4822 117 12971	15Ω 5% 0.603 0.62W	3U15▲	4822 052 10479	47kΩ 5% 0.33W	5B91	4822 157 71467	39μH 10%
3021	9965 000 23109	22Ω 5% 0.603	3U16	4822 051 30222	2.2kΩ 5% 0.062W	5B92	4822 157 71467	39μH 10%
3022	4822 051 30681	680Ω 5% 0.062W	3U17▲	4822 052 10101	100kΩ 5% 0.33W	5B93	4822 157 71467	39μH 10%
3023	4822 051 30153	15kΩ 5% 0.062W	3U18▲	4822 052 10479	47kΩ 5% 0.33W	5D00▲	4822 157 11523	Line filter 5mH/2A
3024	2322 704 61803	18kΩ 1% 0.603	3U19	4822 051 30222	2.2kΩ 5% 0.062W	5D01▲	2422 549 43291	Filter 47mH 2A
3025	4822 117 12903	1kΩ 1% 0.063W 0.603	3U20	4822 051 30222	2.2kΩ 5% 0.062W	5D02▲	2422 549 43291	Filter 47mH 2A
3026	4822 101 11383	Potm. 470Ω 30% linear	3U21	9965 000 23109	22Ω 5% 0.603	5D03▲	3104 308 21101	Coil DTH40203H65
3027	4822 117 13632	100kΩ 1% 0.603 0.62W	3U22	4822 051 30681	680Ω 5% 0.062W	5U01▲	2422 531 02444	Transf. S13932-04Y
3028	4822 051 30102	1kΩ 5% 0.062W	3U23	4822 051 30153	15kΩ 5% 0.062W	5U02▲	3104 308 21111	Transf. BS51312-01
3028	4822 051 30332	3.3kΩ 5% 0.062W	3U24	5322 117 13033	15kΩ 1% 0.063W 0.603	5U04	4822 526 10704	Bead 50 Ω at 100MHz
3029	4822 051 30222	2.2kΩ 5% 0.062W	3U25	4822 117 12903	1.8kΩ 1% 0.063W 0.603	5U05	4822 157 11411	Bead 80Ω at 100MHz
3029	4822 051 30332	3.3kΩ 5% 0.062W	3U26	4822 101 11383	Potm. 470Ω 30% linear	5U07	4822 157 11411	Bead 80Ω at 100MHz
3030	4822 051 30183	18kΩ 5% 0.062W	3U27	4822 117 13632	100kΩ 1% 0.603 0.62W	5U08	4822 157 11411	Bead 80Ω at 100MHz
3031	4822 051 30103	10kΩ 5% 0.062W	3U28	4822 051 30102	1kΩ 5% 0.062W	5U09	4822 157 11411	Bead 80Ω at 100MHz
3031	4822 051 30223	22kΩ 5% 0.062W	3U29	4822 051 30222	2.2kΩ 5% 0.062W	5U10	4822 157 11411	Bead 80Ω at 100MHz
3032	4822 051 30103	10kΩ 5% 0.062W	3U30	4822 051 30183	18kΩ 5% 0.062W	5U13	4822 157 11411	Bead 80Ω at 100MHz
3033	4822 052 11108	1kΩ 5% 0.5W	3U31	4822 051 30223	22kΩ 5% 0.062W	5U15	4822 157 11411	Bead 80Ω at 100MHz
3034	4822 051 30102	1kΩ 5% 0.062W	3U32	4822 051 30103	10kΩ 5% 0.062W	5U16	4822 157 11411	Bead 80Ω at 100MHz
3035	4822 051 30332	3.3kΩ 5% 0.062W	3U34	4822 051 30102	1kΩ 5% 0.062W	5U17	4822 526 10704	Bead 50 Ω at 100MHz
3036	4822 117 13632	100kΩ 1% 0.603 0.62W	3U38	4822 051 30333	33kΩ 5% 0.062W	5U25	4822 157 11411	Bead 80Ω at 100MHz
3037	4822 051 30153	15kΩ 5% 0.062W	3U40	5322 117 13056	8.2kΩ 1% 0.063W 0.603	5U26	4822 157 11411	Bead 80Ω at 100MHz
3038	4822 051 30333	33kΩ 5% 0.062W	3U41	4822 051 30333	33kΩ 5% 0.062W	5U40	4822 157 11411	Bead 80Ω at 100MHz
3039	4822 051 30102	1kΩ 5% 0.062W	3U43	4822 051 30109	10kΩ 5% 0.062W	5U41	4822 526 10704	Bead 50 Ω at 100MHz
3040	5322 117 13056	8.2kΩ 1% 0.063W 0.603	3U45	9965 000 23109	22Ω 5% 0.603			
3041	4822 051 30333	33kΩ 5% 0.062W	3U46	9965 000 23109	22Ω 5% 0.603			
3042	4822 051 30123	12kΩ 5% 0.1W	3U47	4822 051 30479	47kΩ 5% 0.062W			
3043	4822 051 30109	10kΩ 5% 0.062W	3U48	4822 051 30272	2.7kΩ 5% 0.062W			
3044	4822 051 30471	47kΩ 5% 0.062W	3U50	4822 050 28204	820kΩ 1% 0.6W	6001	4822 130 11397	BAS36
3045	4822 117 12971	15Ω 5% 0.603 0.62W	3U52	4822 051 30221	220Ω 5% 0.062W	6002	4822 130 11397	BAS36
3045	9965 000 23109	22Ω 5% 0.603	3U53	4822 050 26804	680kΩ 1% 0.6W	6003	4822 130 11397	BAS36
3046	4822 117 12971	15Ω 5% 0.603 0.62W	3U55	4822 051 30221	220Ω 5% 0.062W	6004	4822 130 11397	BAS36
3046	9965 000 23109	22Ω 5% 0.603	3U56	4822 051 30221	220Ω 5% 0.062W	6004	4822 130 80622	BAT54
3047	4822 051 30479	47kΩ 5% 0.062W	3U57	4822 051 30221	220Ω 5% 0.062W	6005	4822 130 11397	BAS36
3048	4822 051 30272	2.7kΩ 5% 0.062W	3U58	4822 053 20565	5.6MΩ 5% 0.25W	6005	4822 130 80622	BAT54
3049	4822 051 30333	33kΩ 5% 0.062W	3U61	4822 051 30683	68kΩ 5% 0.062W	6006	4822 130 11397	BAS36
3050	4822 050 28204	820kΩ 1% 0.6W	3U64	4822 051 30103	10kΩ 5% 0.062W	6007	4822 130 11397	BAS36
3051	4822 051 30472	4.7kΩ 5% 0.062W	3U65	4822 051 30682	6.8kΩ 5% 0.062W	6008	4822 130 11397	BAS36
3052	2322 704 63303	33kΩ 1% 0.603	3U65	4822 117 12925	47kΩ 1% 0.063W 0.603	6009	4822 130 11152	UDZ47B
3052	2322 704 67502	7.5kΩ 1% 0.5W	3U66	4822 051 30103	10kΩ 5% 0.062W	6010	4822 130 11397	BAS36
3053	4822 050 26804	680kΩ 1% 0.6W	3U67	4822 051 30101	100Ω 5% 0.062W	6011	4822 130 11397	BAS36
3054	4822 051 30472	4.7kΩ 5% 0.062W	3U68	4822 051 30222	2.2kΩ 5% 0.062W	6012	9322 197 30685	SML444
3055	4822 051 30221	220Ω 5% 0.062W	3U70	4822 051 30102	1kΩ 5% 0.062W	6013	9322 197 30685	SML444
3056	4822 051 30221	220Ω 5% 0.062W	3U71	4822 051 30103	10kΩ 5% 0.062W	6014	4822 130 11596	BYW9EX-200
3057	4822 051 30221	220Ω 5% 0.062W	3U75	4822 051 30102	1kΩ 5% 0.062W	6017	4822 130 11397	BAS36
3058	4822 053 20565	5.6MΩ 5% 0.25W	9002	4822 051 30008	Jumper 0603	6020	4822 130 11397	BAS36
3059	4822 051 30222	2.2kΩ 5% 0.062W	9009	4822 051 30008	Jumper 0603	6021	9322 192 03687	STPS0 H100CFP
3061	4822 051 30683	68kΩ 5% 0.062W	9030	4822 051 30008	Jumper 0603	6021	9322 207 11687	STPS0 L45CT
3064	4822 051 30103	10kΩ 5% 0.062W	9047	4822 051 30008	Jumper 0603	6022	4822 130 11148	UDZ47B
3065	4822 051 30682	6.8kΩ 5% 0.062W	9085	4822 051 30008	Jumper 0603	6023	4822 130 11397	BAS36
3065	4822 117 12925	47kΩ 1% 0.063W 0.603	9U02	4822 051 30008	Jumper 0603	6025	9322 207 11687	STPS0 L45CT
3065	4822 117 13632	100kΩ 1% 0.603 0.62W	9U57	4822 051 30008	Jumper 0603	6027	4822 130 11397	BAS36
3066	4822 051 30103	10kΩ 5% 0.062W				6028	4822 130 11397	BAS36
3067	4822 051 30101	100Ω 5% 0.062W				6030	4822 130 11397	BAS36
3068	4822 051 30222	2.2kΩ 5% 0.062W				6044	9322 205 63687	STPS0 L40CT
3070	4822 051 30102	1kΩ 5% 0.062W				6044	9322 207 11687	STPS0 L45CT
3071	4822 051 30103	10kΩ 5% 0.062W	5001▲	2422 531 02444	Transf. S13932-04Y	6045	9322 207 11687	STPS0 L45CT
3075	4822 051 30102	1kΩ 5% 0.062W	5002▲	3104 308 21111	Transf. BS51312-01	6051	4822 130 11397	BAS36
3076	4822 050 22702	2.7kΩ 1% 0.6W	5002▲	8204 000 77321	Transf. 2652.0002	6054	4822 130 11551	UDZ50 B
3077	4822 050 22702	2.7kΩ 1% 0.6W	5004	4822 526 10704	Bead 50 Ω at 100MHz	6077	9322 202 55685	BYG2D
3078	4822 050 22702	2.7kΩ 1% 0.6W	5005	4822 157 11411	Bead 80Ω at 100MHz	6078	5322 130 31938	BYV2-200
3079	4822 050 22702	2.7kΩ 1% 0.6W	5005	4822 526 10704	Bead 50 Ω at 100MHz	6078	9322 202 55685	BYG2D
3080	4822 050 22702	2.7kΩ 1% 0.6W	5007	4822 157 11411	Bead 80Ω at 100MHz	6079	9322 202 55685	BYG2D
3081	4822 050 22702	2.7kΩ 1% 0.6W	5007	4822 526 10704	Bead 50 Ω at 100MHz	6080	9322 202 55685	BYG2D
3082	4822 050 22702	2.7kΩ 1% 0.6W	5008	4822 157 11411	Bead 80Ω at 100MHz	6081	9340 548 67115	PDZ2B
3100	4822 051 30109	10Ω 5% 0.062W	5008	4822 526 10704	Bead 50 Ω at 100MHz	6156	9322 099 61685	BYG1J
3292	4822 051 30561	560Ω 5% 0.062W	5009	4822 157 11411	Bead 80Ω at 100MHz	6157	9322 099 61685	BYG1J
3400▲	2122 550 00158	VDR 1mA 612V	50					

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
6U06	4822 130 80622	BAT54
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)
0605	3104 317 47621	SW (see Prod. Survey)
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 11 P/400/11P
8336	3104 311 07111	Cable 11 P/340/11P
8336	3104 311 07131	Cable 11 P/340/11P
8336	3104 311 07461	Cable 11 P/560/11P
8336	3104 311 07471	Cable 11 P/680/11P
8337	3104 311 06991	Cable 11 P/280/11P
8337	3104 311 07451	Cable 11 P/220/11P
8346	3104 311 06991	Cable 11 P/280/11P
8346	3104 311 07401	Cable 11 P/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	2412	2020 552 96793	4.7nF 10% 50V 0402	2777	2238 586 59812	100nF 20% 50V 0603
8349	3104 311 07781	Cable 3p/480/3p Wh	2412	3198 035 14720	4.7nF 5% 25V 0402	2778	2020 552 96618	1nF 10% 50V 0402
8349	3104 311 08871	Cable 3P/480/3P	2414	2020 021 91557	100µF 20% 16V	2778	2238 586 59812	100nF 20% 50V 0603
8350	3104 311 07601	Cable 5P/1K0/5P	2415	2238 586 59812	100nF 20% 50V 0603	2780	2020 552 96618	1nF 10% 50V 0402
8350	3104 311 07961	Cable 5P/1K2/5P	2416	2022 552 05679	1µF 10% 16V 0805	2780	2238 586 59812	100nF 20% 50V 0603
8352	3104 311 06061	Cable 9P/180/9P	2417	4822 126 14583	470nF 10% 16V 0805	2781	2020 552 96618	1nF 10% 50V 0402
8352	3104 311 06811	Cable 9P/340/9P	2418	3198 034 05680	5.6pF 1% 50V 0402	2781	2238 586 59812	100nF 20% 50V 0603
8436	3104 311 07471	Cable 11P/680/11P	2425	2020 021 91557	100µF 20% 16V	2782	2020 552 96618	1nF 10% 50V 0402
			2432	2238 586 59812	100nF 20% 50V 0603	2782	2238 586 59812	100nF 20% 50V 0603
2002	3198 034 02790	47pF 1% 50V 0402	2433	2238 586 59812	100nF 20% 50V 0603	2784	2238 586 59812	100nF 20% 50V 0603
2003	2238 780 15654	220nF 10% 16V 0805	2434	2238 586 59812	100nF 20% 50V 0603	2784	2238 787 15641	22nF 5% 16V 0402
2004	2238 780 15654	220nF 10% 16V 0805	2435	2020 552 96618	1nF 10% 50V 0402	2785	2238 586 59812	100nF 20% 50V 0603
2005	2238 586 59812	100nF 20% 50V 0603	2436	2020 552 96448	1µF 10% 16V 0805	2785	2238 787 15641	22nF 5% 16V 0402
2006	2238 586 59812	100nF 20% 50V 0603	2707	3198 034 02790	47pF 1% 50V 0402	2788	2238 586 59812	100nF 20% 50V 0603
2007	2238 586 59812	100nF 20% 50V 0603	2707	4822 126 14519	22pF 5% 50V 0402	2789	2238 586 59812	100nF 20% 50V 0603
2008	2238 586 59812	100nF 20% 50V 0603	2708	2238 586 59812	100nF 20% 50V 0603	2790	2238 586 59812	100nF 20% 50V 0603
2010	3198 034 04790	27pF 1% 50V 0402	2709	2238 586 59812	100nF 20% 50V 0603	2791	2238 586 59812	100nF 20% 50V 0603
2011	3198 034 04790	27pF 1% 50V 0402	2710	2238 586 59812	100nF 20% 50V 0603	2792	2238 586 59812	100nF 20% 50V 0603
2012	3198 034 04790	27pF 1% 50V 0402	2711	2238 586 59812	100nF 20% 50V 0603	2793	2238 586 59812	100nF 20% 50V 0603
2013	2020 021 91557	100µF 20% 16V	2712	2238 586 59812	100nF 20% 50V 0603	2794	2020 552 96618	1nF 10% 50V 0402
2016	4822 124 12095	100µF 20% 16V	2713	4822 126 14519	22pF 5% 50V 0402	2794	2238 586 59812	100nF 20% 50V 0603
2017	2238 586 59812	100nF 20% 50V 0603	2714	4822 126 14519	22pF 5% 50V 0402	2795	2020 552 96618	1nF 10% 50V 0402
2018	4822 126 14324	33pF 5% 50V 0402	2715	2020 021 91854	100µF 20% 16V	2795	2238 586 59812	100nF 20% 50V 0603
2019	2238 586 59812	100nF 20% 50V 0603	2716	2238 586 59812	100nF 20% 50V 0603	2796	2020 552 96618	1nF 10% 50V 0402
2020	2238 869 15221	220pF 1% 50V 0402	2717	2238 586 59812	100nF 20% 50V 0603	2796	2238 586 59812	100nF 20% 50V 0603
2022	2238 586 59812	100nF 20% 50V 0603	2718	3198 034 01590	15pF 1% 50V 0402	2797	2020 552 96618	1nF 10% 50V 0402
2023	2238 586 59812	100nF 20% 50V 0603	2719	3198 034 01590	15pF 1% 50V 0402	2797	2238 586 59812	100nF 20% 50V 0603
2024	2238 586 59812	100nF 20% 50V 0603	2720	2238 869 15101	100pF 5% 50V 0402	2798	2020 552 96618	1nF 10% 50V 0402
2025	2238 586 59812	100nF 20% 50V 0603	2721	2238 869 15101	100pF 5% 50V 0402	2798	2238 586 59812	100nF 20% 50V 0603
2026	2238 586 59812	100nF 20% 50V 0603	2722	2238 586 59812	100nF 20% 50V 0603	2799	2020 552 96618	1nF 10% 50V 0402
2027	2238 586 59812	100nF 20% 50V 0603	2723	2238 586 59812	100nF 20% 50V 0603	2799	2238 586 59812	100nF 20% 50V 0603
2028	2238 586 59812	100nF 20% 50V 0603	2725	2238 586 59812	100nF 20% 50V 0603	2800	2238 586 59812	100nF 20% 50V 0603
2029	2238 586 59812	100nF 20% 50V 0603	2726	2238 586 59812	100nF 20% 50V 0603	2802	2238 586 59812	100nF 20% 50V 0603
2031	2238 586 59812	100nF 20% 50V 0603	2727	2238 586 59812	100nF 20% 50V 0603	2804	2238 586 59812	100nF 20% 50V 0603
2033	2238 869 75829	82pF 5% 50V 0402	2728	2020 021 91854	100µF 20% 16V	2805	2020 552 96618	1nF 10% 50V 0402
2034	2238 869 75829	82pF 5% 50V 0402	2729	2238 586 59812	100nF 20% 50V 0603	2805	2238 586 59812	100nF 20% 50V 0603
2035	2238 869 75829	82pF 5% 50V 0402	2730	2020 021 91557	100µF 20% 16V	2806	2238 586 59812	100nF 20% 50V 0603
2036	2238 869 75829	82pF 5% 50V 0402	2731	2238 586 59812	100nF 20% 50V 0603	2807	2238 586 59812	100nF 20% 50V 0603
2037	2238 869 75829	82pF 5% 50V 0402	2732	2020 552 96618	1nF 10% 50V 0402	2808	2020 552 96618	1nF 10% 50V 0402
2038	2238 586 59812	100nF 20% 50V 0603	2733	2238 586 59812	100nF 20% 50V 0603	2808	2238 586 59812	100nF 20% 50V 0603
2039	2238 586 59812	100nF 20% 50V 0603	2734	2238 586 59812	100nF 20% 50V 0603	2809	2020 552 96618	1nF 10% 50V 0402
2040	2238 586 59812	100nF 20% 50V 0603	2735	2238 586 59812	100nF 20% 50V 0603	2809	2238 586 59812	100nF 20% 50V 0603
2063	2238 586 59812	100nF 20% 50V 0603	2736	2238 586 59812	100nF 20% 50V 0603	2810	2238 586 59812	100nF 20% 50V 0603
2067	2238 586 59812	100nF 20% 50V 0603	2738	2238 586 59812	100nF 20% 50V 0603	2811	2238 586 59812	100nF 20% 50V 0603
2074	2238 586 59812	100nF 20% 50V 0603	2739	2020 021 91557	100µF 20% 16V	2812	3198 031 02290	22Ω 5% 0.1W 0402
2075	2238 586 59812	100nF 20% 50V 0603	2740	2238 787 15641	22nF 5% 16V 0402	2813	2238 586 59812	100nF 20% 50V 0603
2305	2238 586 59812	100nF 20% 50V 0603	2741	2238 787 15641	22nF 5% 16V 0402	2817	2238 586 59812	100nF 20% 50V 0603
2316	2238 586 59812	100nF 20% 50V 0603	2742	2238 787 15641	22nF 5% 16V 0402	2819	2238 586 59812	100nF 20% 50V 0603
2322	2238 586 59812	100nF 20% 50V 0603	2743	2238 586 59812	100nF 20% 50V 0603	2821	2238 586 59812	100nF 20% 50V 0603
2324	5322 126 11583	10nF 10% 50V 0603	2744	2238 586 59812	100nF 20% 50V 0603	2821	2238 787 15641	22nF 5% 16V 0402
2350	2238 586 59812	100nF 20% 50V 0603	2745	2238 586 59812	100nF 20% 50V 0603	2822	2238 586 59812	100nF 20% 50V 0603
2351	2238 586 59812	100nF 20% 50V 0603	2746	4822 126 14524	68pF 5% 50V 0402	2822	2238 787 15641	22nF 5% 16V 0402
2352	2238 586 59812	100nF 20% 50V 0603	2747	2238 586 59812	100nF 20% 50V 0603	2823	2238 586 59812	100nF 20% 50V 0603
2356	2238 586 59812	100nF 20% 50V 0603	2748	2238 586 59812	100nF 20% 50V 0603	2824	2238 586 59812	100nF 20% 50V 0603
2357	2238 586 59812	100nF 20% 50V 0603	2749	2238 586 59812	100nF 20% 50V 0603	2825	2238 586 59812	100nF 20% 50V 0603
2358	3198 035 03320	3.3nF 5% 50V 0402	2750	2020 552 96618	1nF 10% 50V 0402	2826	2238 586 59812	100nF 20% 50V 0603
2359	3198 034 01590	15pF 1% 50V 0402	2751	2238 586 59812	100nF 20% 50V 0603	2827	2238 586 59812	100nF 20% 50V 0603
2360	3198 034 01280	1.2pF 1% 50V 0402	2752	2020 552 96618	1nF 10% 50V 0402	2829	2020 021 91557	100µF 20% 16V
2361	3198 034 01280	1.2pF 1% 50V 0402	2753	2238 586 59812	100nF 20% 50V 0603	2830	2238 586 59812	100nF 20% 50V 0603
2362	3198 034 01290	12pF 1% 50V 0402	2754	2020 552 96618	1nF 10% 50V 0402	2831	2238 586 59812	100nF 20% 50V 0603
2365	2238 586 59812	100nF 20% 50V 0603	2755	2020 552 96618	1nF 10% 50V 0402	2832	2238 586 59812	100nF 20% 50V 0603
2366	2238 586 59812	100nF 20% 50V 0603	2756	2238 586 59812	100nF 20% 50V 0603	2833	2238 586 59812	100nF 20% 50V 0603
2367	2238 586 59812	100nF 20% 50V 0603	2757	2020 552 96618	1nF 10% 50V 0402	2834	2238 586 59812	100nF 20% 50V 0603
2368	2238 586 59812	100nF 20% 50V 0603	2758	2238 586 59812	100nF 20% 50V 0603	2835	2238 586 59812	100nF 20% 50V 0603
2369	2238 586 59812	100nF 20% 50V 0603	2759	2020 552 96618	1nF 10% 50V 0402	2836	2238 586 59812	100nF 20% 50V 0603
2370	2238 586 59812	100nF 20% 50V 0603	2760	2238 586 59812	100nF 20% 50V 0603	2837	2238 869 15101	100pF 5% 50V 0402
2371	2020 552 96793	4.7nF 10% 50V 0402	2761	2238 787 15641	22nF 5% 16V 0402	2838	2238 869 15101	100pF 5% 50V 0402
2371	3198 035 14720	4.7nF 5% 25V 0402	2762	2238 586 59812	100nF 20% 50V 0603	2839	2238 869 15101	100pF 5% 50V 0402
2372	2022 552 05679	1µF 10% 16V 0805	2763	2238 586 59812	100nF 20% 50V 0603	2840	4822 126 14519	22pF 5% 50V 0402
2373	2238 586 59812	100nF 20% 50V 0603	2764	2238 787 15641	22nF 5% 16V 0402	2841	4822 126 14519	22pF 5% 50V 0402
2374	2022 552 05679	1µF 10% 16V 0805	2765	2238 586 59812	100nF 20% 50V 0603	2844	2238 586 59812	100nF 20% 50V 0603
2375	2238 787 15641	22nF 5% 16V 0402	2766	2238 787 15641	22nF 5% 16V 0402	2845	2238 586 59812	100nF 20% 50V 0603
2376	2238 586 59812	100nF 20% 50V 0603	2767	2238 586 59812	100nF 20% 50V 0603	2846	2238 586 59812	100nF 20% 50V 0603
2377	2020 021 91557	100µF 20% 16V	2768	2238 586 59812	100nF 20% 50V 0603	2847	2020 021 91854	10µF 20% 16V
2378	2238 586 59812	100nF 20% 50V 0603	2769	2238 586 59812	100nF 20% 50V 0603	2848	2238 586 59812	100nF 20% 50V 0603
2384	2238 586 59812	100nF 20% 50V 0603	2770	2020 552 96618	1nF 10% 50V 0402	2849	2238 586 59812	100nF 20% 50V 0603
2387	2022 552 05679	1µF 10% 16V 0805	2771	2238 586 59812	100nF 20% 50V 0603	2850	2238 586 59812	100nF 20% 50V 0603
2390	2238 586 59812	100nF 20% 50V 0603	2772	2238 586 59812	100nF 20% 50V 0603	2851	2238 586 59812	100nF 20% 50V 0603
2391	2238 586 59812	100nF 20% 5						

2868	2238 586 59812	100nF 20% 50V 0603	2A62	2022 552 05679	1µF 10% 16V 0805	2E67	2238 586 59812	100nF 20% 50V 0603
2869	2238 586 59812	100nF 20% 50V 0603	2A64	2238 586 59812	100nF 20% 50V 0603	2E68	2020 552 96628	10nF 10% 16V 0402
2870	2238 586 59812	100nF 20% 50V 0603	2A66	2022 552 05679	1µF 10% 16V 0805	2E69	2020 552 96628	10nF 10% 16V 0402
2871	2020 021 91557	100µF 20% 16V	2A69	2022 552 05679	1µF 10% 16V 0805	2E70	2020 552 96628	10nF 10% 16V 0402
2872	2238 586 59812	100nF 20% 50V 0603	2A70	2022 552 05679	1µF 10% 16V 0805	2E71	2020 552 96628	10nF 10% 16V 0402
2873	2238 586 59812	100nF 20% 50V 0603	2A72	2022 552 05679	1µF 10% 16V 0805	2E72	2238 586 59812	100nF 20% 50V 0603
2874	2238 586 59812	100nF 20% 50V 0603	2A74	2022 552 05679	1µF 10% 16V 0805	2E73	2238 586 59812	100nF 20% 50V 0603
2875	2238 586 59812	100nF 20% 50V 0603	2A75	2022 552 05679	1µF 10% 16V 0805	2E74	2238 586 59812	100nF 20% 50V 0603
2876	2238 586 59812	100nF 20% 50V 0603	2A76	2238 586 59812	100nF 20% 50V 0603	2E75	2238 586 59812	100nF 20% 50V 0603
2877	2238 586 59812	100nF 20% 50V 0603	2A79	2238 586 59812	100nF 20% 50V 0603	2E77	2238 586 59812	100nF 20% 50V 0603
2878	2238 586 59812	100nF 20% 50V 0603	2A80	2022 552 05679	1µF 10% 16V 0805	2E78	2238 586 59812	100nF 20% 50V 0603
2879	2238 586 59812	100nF 20% 50V 0603	2A81	2020 552 96618	1nF 10% 50V 0402	2E79	2238 586 59812	100nF 20% 50V 0603
2880	2238 586 59812	100nF 20% 50V 0603	2A83	2238 586 59812	100nF 20% 50V 0603	2E80	2238 586 59812	100nF 20% 50V 0603
2881	3198 034 02790	47pF 1% 50V 0402	2A88	2238 586 59812	100nF 20% 50V 0603	2E81	2022 552 05679	1µF 10% 16V 0805
2882	2238 586 59812	100nF 20% 50V 0603	2A89	2022 552 05679	1µF 10% 16V 0805	2E82	2238 586 59812	100nF 20% 50V 0603
2883	2238 586 59812	100nF 20% 50V 0603	2A90	4822 124 12313	22µF 10V 20%	2E83	2238 586 59812	100nF 20% 50V 0603
2884	2238 586 59812	100nF 20% 50V 0603	2A91	2238 869 15101	100pF 5% 50V 0402	2E84	2238 586 59812	100nF 20% 50V 0603
2885	2238 586 59812	100nF 20% 50V 0603	2A92	2020 552 96618	1nF 10% 50V 0402	2E86	2238 586 59812	100nF 20% 50V 0603
2886	2238 586 59812	100nF 20% 50V 0603	2A92	2022 552 05679	1µF 10% 16V 0805	2E87	4822 124 12095	100µF 20% 16V
2887	2238 586 59812	100nF 20% 50V 0603	2A95	2238 869 15221	220pF 1% 50V 0402	2E88	2238 869 15101	100pF 5% 50V 0402
2888	2238 586 59812	100nF 20% 50V 0603	2A99	2020 552 96618	1nF 10% 50V 0402	2E89	2238 869 15101	100pF 5% 50V 0402
2889	2020 021 91557	100µF 20% 16V	2A99	2022 552 05679	1µF 10% 16V 0805	2E90	2238 869 15101	100pF 5% 50V 0402
2890	2238 586 59812	100nF 20% 50V 0603	2AA5	2238 869 15101	100pF 5% 50V 0402	2E91	2238 869 15101	100pF 5% 50V 0402
2891	2238 586 59812	100nF 20% 50V 0603	2AA6	2020 552 96618	1nF 10% 50V 0402	2E92	2238 869 15101	100pF 5% 50V 0402
2892	2238 586 59812	100nF 20% 50V 0603	2AA7	2020 552 96618	1nF 10% 50V 0402	2E93	2238 586 59812	100nF 20% 50V 0603
2893	2238 586 59812	100nF 20% 50V 0603	2AA9	3198 034 05680	5.6pF 1% 50V 0402	2E94	2238 586 59812	100nF 20% 50V 0603
2894	2238 586 59812	100nF 20% 50V 0603	2AB0	3198 034 05680	5.6pF 1% 50V 0402	2E96	2238 869 15101	100pF 5% 50V 0402
2895	2020 021 91854	100µF 20% 16V	2AB2	2020 552 96618	1nF 10% 50V 0402	2E97	2238 869 15101	100pF 5% 50V 0402
2896	2020 021 91557	100µF 20% 16V	2AB3	2022 552 05679	1µF 10% 16V 0805	2E98	2238 869 15101	100pF 5% 50V 0402
2897	2238 586 59812	100nF 20% 50V 0603	2AB4	2022 552 05679	1µF 10% 16V 0805	2E99	4822 124 81058	47µF 20% 4V
2898	2020 021 91854	100µF 20% 16V	2AB5	2020 021 91854	10µF 20% 16V	2I00	2238 869 15101	100pF 5% 50V 0402
2899	2238 586 59812	100nF 20% 50V 0603	2AB6	2020 552 96618	1nF 10% 50V 0402	2I11	2022 552 05679	1µF 10% 16V 0805
2914	2238 586 59812	100nF 20% 50V 0603	2AB7	2020 552 96618	1nF 10% 50V 0402	2I12	2022 552 05679	1µF 10% 16V 0805
2917	2238 586 59812	100nF 20% 50V 0603	2AB8	2022 552 05679	1nF 10% 16V 0805	2I12	4822 126 14585	100nF 10% 0805 50V
2919	2020 021 91557	100µF 20% 16V	2C00	2238 586 59812	100nF 20% 50V 0603	2I13	2020 552 96628	10nF 10% 16V 0402
2920	2238 586 59812	100nF 20% 50V 0603	2C01	2238 586 59812	100nF 20% 50V 0603	2I14	2020 552 96628	2.2nF 10% 50V 0402
2921	2238 586 59812	100nF 20% 50V 0603	2C02	2238 586 59812	100nF 20% 50V 0603	2I15	2020 552 96448	1µF 10% 16V 0805
2922	2020 552 96628	10nF 10% 16V 0402	2D04	2020 552 96618	1nF 10% 50V 0402	2I15	2022 552 05679	1µF 10% 16V 0805
2923	2020 552 96628	10nF 10% 16V 0402	2D09	2238 586 59812	100nF 20% 50V 0603	2I16	2238 869 15101	100pF 5% 50V 0402
2924	2238 586 59812	100nF 20% 50V 0603	2D10	2022 552 05679	1µF 10% 16V 0805	2I17	2238 869 15101	100pF 5% 50V 0402
2925	2020 552 96618	1nF 10% 50V 0402	2D11	2020 552 96628	10nF 10% 16V 0402	2I18	2238 869 15101	100pF 5% 50V 0402
2926	2238 869 15101	100pF 5% 50V 0402	2D12	2020 552 96628	10nF 10% 16V 0402	2I19	2238 869 15101	100pF 5% 50V 0402
2927	2238 869 15101	100pF 5% 50V 0402	2E01	2238 586 59812	100nF 20% 50V 0603	2I20	3198 035 03310	330pF 5% 50V 0402
2928	2238 869 15101	100pF 5% 50V 0402	2E02	2238 586 59812	100nF 20% 50V 0603	2I21	2238 869 15101	100pF 5% 50V 0402
2937	2020 021 91557	100µF 20% 16V	2E02	3198 035 71040	100nF 10% 16V 0402	2I22	2238 869 15101	100pF 5% 50V 0402
2939	2020 021 91557	100µF 20% 16V	2E03	2238 586 59812	100nF 20% 50V 0603	2I23	2238 869 15101	100pF 5% 50V 0402
2A00	2020 552 96618	1nF 10% 50V 0402	2E04	2238 586 59812	100nF 20% 50V 0603	2I24	2238 869 15101	100pF 5% 50V 0402
2A01	2020 552 96618	1nF 10% 50V 0402	2E06	2238 586 59812	100nF 20% 50V 0603	2I25	3198 035 03310	330pF 5% 50V 0402
2A02	2022 552 05679	1µF 10% 16V 0805	2E07	2238 586 59812	100nF 20% 50V 0603	2I26	2238 869 15101	100pF 5% 50V 0402
2A03	2020 021 91557	100µF 20% 16V	2E08	2238 586 59812	100nF 20% 50V 0603	2I27	2238 869 15101	100pF 5% 50V 0402
2A04	2022 552 05679	1µF 10% 16V 0805	2E09	2238 586 59812	100nF 20% 50V 0603	2I30	2238 869 15101	100pF 5% 50V 0402
2A05	2020 021 91557	100µF 20% 16V	2E10	2238 586 59812	100nF 20% 50V 0603	2I32	4822 124 23002	10µF 15V
2A06	2020 552 96618	1nF 10% 50V 0402	2E11	2238 586 59812	100nF 20% 50V 0603	2I36	2238 869 15101	100pF 5% 50V 0402
2A07	2020 552 96618	1nF 10% 50V 0402	2E12	2238 586 59812	100nF 20% 50V 0603	2I38	2238 869 15101	100pF 5% 50V 0402
2A08	2022 552 05679	1µF 10% 16V 0805	2E13	2238 586 59812	100nF 20% 50V 0603	2I46	2020 552 96618	1nF 10% 50V 0402
2A10	2238 586 59812	100nF 20% 50V 0603	2E14	2238 586 59812	100nF 20% 50V 0603	2I47	2020 552 96618	1nF 10% 50V 0402
2A11	2238 586 59812	100nF 20% 50V 0603	2E15	2238 586 59812	100nF 20% 50V 0603	2I49	2238 586 59812	100nF 20% 50V 0603
2A14	2020 552 96618	1nF 10% 50V 0402	2E16	2238 586 59812	100nF 20% 50V 0603	2I50	2238 586 59812	100nF 20% 50V 0603
2A15	2020 021 91557	100µF 20% 16V	2E17	2238 586 59812	100nF 20% 50V 0603	2I57	2238 869 15101	100pF 5% 50V 0402
2A16	2238 586 59812	100nF 20% 50V 0603	2E18	2238 586 59812	100nF 20% 50V 0603	2I58	2238 869 15101	100pF 5% 50V 0402
2A17	2020 552 96618	1nF 10% 50V 0402	2E19	2238 586 59812	100nF 20% 50V 0603	2I64	2238 869 15101	100pF 5% 50V 0402
2A18	2020 021 91557	100µF 20% 16V	2E20	2238 586 59812	100nF 20% 50V 0603	2I65	2238 869 15101	100pF 5% 50V 0402
2A20	2022 552 05679	1µF 10% 16V 0805	2E21	3198 017 34730	47nF 16V 0603	2I69	2238 869 75829	82pF 5% 50V 0402
2A21	2238 586 59812	100nF 20% 50V 0603	2E22	4822 126 14519	22pF 5% 50V 0402	2I69	4822 126 14324	33pF 5% 50V 0402
2A22	2238 586 59812	100nF 20% 50V 0603	2E23	3198 017 34730	47nF 16V 0603	2I70	2238 869 75829	82pF 5% 50V 0402
2A23	2238 586 59812	100nF 20% 50V 0603	2E24	4822 126 14519	22pF 5% 50V 0402	2I70	4822 126 14324	33pF 5% 50V 0402
2A25	2238 869 15101	100pF 5% 50V 0402	2E25	3198 017 34730	47nF 16V 0603	2I71	2022 552 05679	1µF 10% 16V 0805
2A26	2022 552 05679	1µF 10% 16V 0805	2E26	4822 126 14519	22pF 5% 50V 0402	2I72	2022 552 05679	1µF 10% 16V 0805
2A26	2238 586 59812	100nF 20% 50V 0603	2E27	2238 586 59812	100nF 20% 50V 0603	2I73	2022 552 05679	1µF 10% 16V 0805
2A27	2020 552 96618	1nF 10% 50V 0402	2E28	3198 017 34730	47nF 16V 0603	2I75	2022 552 05679	1µF 10% 16V 0805
2A29	2238 869 15101	100pF 5% 50V 0402	2E29	3198 017 33330	33nF 20% 16V 0603	2I76	2022 552 05679	1µF 10% 16V 0805
2A30	2238 869 15101	100pF 5% 50V 0402	2E29	4822 126 14549	33nF 16V 0603	2I77	2022 552 05679	1µF 10% 16V 0805
2A31	2022 552 05679	1µF 10% 16V 0805	2E30	3198 035 14720	4.7nF 5% 25V 0402	2I78	2022 552 05679	1µF 10% 16V 0805
2A31	2238 586 59812	100nF 20% 50V 0603	2E34	3198 035 03320	3.3nF 5% 50V 0402	2I79	5322 124 41945	22µF 20% 35V
2A32	2238 869 15101	100pF 5% 50V 0402	2E35	2238 586 59812	100nF 20% 50V 0603	2I80	2022 552 05679	1µF 10% 16V 0805
2A33	2238 586 59812	100nF 20% 50V 0603	2E39	2238 869 15109	100pF 5% 50V 0402	2I81	2022 552 05679	1µF 10% 16V 0805
2A35	2020 552 96618	1nF 10% 50V 0402	2E41	2022 552 05679	1µF 10% 16V 0805	2I82	2022 552 05679	1µF 10% 16V 0805
2A36	2238 869 15101	100pF 5% 50V 0402	2E41	2238 586 59812	100nF 20% 50V 0603	2I84	2022 552 05679	1µF 10% 16V 0805
2A37	2238 869 15101	100pF 5% 50V 0402	2E42	2020 552 96628	10nF 10% 16V 0402	2I85	2022 552 05679	1µF 10% 16V 0805
2A39	2022 552 05679	1µF 10% 16V 0805	2E43	2238 586 59812	100nF 20% 50V 0603	2I86	2238 869 75829	82pF 5% 50V

21A0	4822 124 23002	10µF 16V	2L17	2238 586 59812	100nF 20% 50V 0603	2P99	4822 124 12095	100µF 20% 16V
21A0	2022 552 05679	1µF 10% 16V 0805	2L19	4822 124 23237	22µF 6.3V	2PA0	2022 552 05679	1µF 10% 16V 0805
21A0	4822 124 23002	10µF 16V	2L20	2238 586 59812	100nF 20% 50V 0603	2PA1	3198 034 01510	150pF 1% 50V 0402
21A1	2022 552 05679	1µF 10% 16V 0805	2L21	2238 586 59812	100nF 20% 50V 0603	2PA2	2238 586 59812	100nF 20% 50V 0603
21A1	4822 124 23002	10µF 16V	2L25	2238 586 59812	100nF 20% 50V 0603	2PA3	3198 034 01510	150pF 1% 50V 0402
21A2	2022 552 05679	1µF 10% 16V 0805	2L26	3198 017 33330	33nF 20% 16V 0603	2PA4	2238 586 59812	100nF 20% 50V 0603
21A2	4822 124 23002	10µF 16V	2L26	4822 126 14549	33nF 16V 0603	2PA5	3198 034 01510	150pF 1% 50V 0402
21A3	2020 552 96618	1nF 10% 50V 0402	2L27	3198 035 14720	4.7nF 5% 25V 0402	2PA6	2238 586 59812	100nF 20% 50V 0603
21A4	2022 552 05679	1µF 10% 16V 0805	2L28	2238 869 75829	82pF 5% 50V 0402	2PA7	2238 586 59812	100nF 20% 50V 0603
21A4	4822 126 14585	100nF 10% 0805 50V	2L28	3198 034 03990	39pF 1% 50V 0402	2PA8	2238 586 59812	100nF 20% 50V 0603
21A5	2020 021 91557	100µF 20% 16V	2L29	3198 034 03990	39pF 1% 50V 0402	2PA9	2020 004 90283	10µF 20% 10V 1206
21A9	2020 021 91557	100µF 20% 16V	2L29	4822 126 14519	22pF 5% 50V 0402	2PB0	2022 552 05679	1µF 10% 16V 0805
21B3	2238 586 59812	100nF 20% 50V 0603	2L30	2238 869 75829	82pF 5% 50V 0402	2PB1	3198 034 01510	150pF 1% 50V 0402
21B5	2022 552 05679	1µF 10% 16V 0805	2L30	3198 034 03990	39pF 1% 50V 0402	2PB2	2238 586 59812	100nF 20% 50V 0603
21B8	2238 586 59812	100nF 20% 50V 0603	2L31	3198 017 34730	47nF 16V 0603	2PB3	2238 586 59812	100nF 20% 50V 0603
21B9	2238 586 59812	100nF 20% 50V 0603	2L32	3198 035 03320	3.3nF 5% 50V 0402	2PB4	3198 034 01510	150pF 1% 50V 0402
21C0	4822 124 23002	10µF 16V	2L33	2238 586 59812	100nF 20% 50V 0603	2PB6	2238 586 59812	100nF 20% 50V 0603
21C1	4822 124 23002	10µF 16V	2L34	2238 586 59812	100nF 20% 50V 0603	2PB7	2238 586 59812	100nF 20% 50V 0603
21C3	2238 586 59812	100nF 20% 50V 0603	2L48	3198 034 01590	15pF 1% 50V 0402	2PB8	4822 124 23002	10µF 16V
21C5	2238 586 59812	100nF 20% 50V 0603	2L50	3198 034 01590	15pF 1% 50V 0402	2PB9	2238 586 59812	100nF 20% 50V 0603
21C6	3198 034 04790	27pF 1% 50V 0402	2L51	4822 124 23237	22µF 6.3V	2PC0	4822 124 23002	10µF 16V
21C7	3198 034 04790	27pF 1% 50V 0402	2L52	3198 017 34730	47nF 16V 0603	2PC1	2238 586 59812	100nF 20% 50V 0603
21C8	2022 552 05679	1µF 10% 16V 0805	2L54	3198 017 34730	47nF 16V 0603	2PC2	2238 586 59812	100nF 20% 50V 0603
21C9	3198 035 02210	220pF 5% 50V 0402	2L56	2020 552 96618	1nF 10% 50V 0402	2PC4	2238 586 59812	100nF 20% 50V 0603
21C9	4822 126 13883	220pF 5% 50V	2L57	3198 017 34730	47nF 16V 0603	2PC5	2238 586 59812	100nF 20% 50V 0603
21E1	2238 586 59812	100nF 20% 50V 0603	2L58	4822 124 23237	22µF 6.3V	2PC7	2238 586 59812	100nF 20% 50V 0603
21E2	2238 586 59812	100nF 20% 50V 0603	2L60	2238 869 15101	100pF 5% 50V 0402	2PC8	2238 586 59812	100nF 20% 50V 0603
21E3	2022 552 05679	1µF 10% 16V 0805	2L60	3198 034 04790	27pF 1% 50V 0402	2PC9	2238 586 59812	100nF 20% 50V 0603
21E4	2238 586 59812	100nF 20% 50V 0603	2P00	2238 586 59812	100nF 20% 50V 0603	2PD0	2020 004 90283	10µF 20% 10V 1206
21E5	2238 586 59812	100nF 20% 50V 0603	2P01	2020 004 90297	100µF 20% 16V	2PD1	2238 586 59812	100nF 20% 50V 0603
21E6	2238 586 59812	100nF 20% 50V 0603	2P02	2238 586 59812	100nF 20% 50V 0603	2PD3	2238 586 59812	100nF 20% 50V 0603
21E7	2022 552 05679	1µF 10% 16V 0805	2P03	2020 552 96793	4.7nF 10% 50V 0402	2PD4	2238 586 59812	100nF 20% 50V 0603
21E8	2022 552 05679	1µF 10% 16V 0805	2P03	3198 035 14720	4.7nF 5% 25V 0402	2PD5	4822 124 23002	10µF 16V
21E9	2238 586 59812	100nF 20% 50V 0603	2P04	2020 552 96793	4.7nF 10% 50V 0402	2PD6	4822 124 23002	10µF 16V
21F1	2238 586 59812	100nF 20% 50V 0603	2P04	3198 035 14720	4.7nF 5% 25V 0402	2PD7	2238 586 59812	100nF 20% 50V 0603
21F2	2238 586 59812	100nF 20% 50V 0603	2P06	2238 869 15221	220pF 1% 50V 0402	2PD9	2238 586 59812	100nF 20% 50V 0603
21F3	2238 586 59812	100nF 20% 50V 0603	2P07	4822 126 14524	68pF 5% 50V 0402	2PE4	2238 586 59812	100nF 20% 50V 0603
21F4	4822 124 80151	47µF 16V	2P08	3198 034 02780	27pF 1% 50V 0402	2PE5	2238 586 59812	100nF 20% 50V 0603
21F5	2238 586 59812	100nF 20% 50V 0603	2P09	2022 552 05679	1µF 10% 16V 0805	2PE6	2238 586 59812	100nF 20% 50V 0603
21F8	2022 552 05679	1µF 10% 16V 0805	2P10	2238 586 59812	100nF 20% 50V 0603	2PE7	2022 552 05679	1µF 10% 16V 0805
21F8	4822 124 11946	22µF 20% 16V	2P11	2238 586 59812	100nF 20% 50V 0603	2PE7	2238 586 59812	100nF 20% 50V 0603
21F9	2022 552 05679	1µF 10% 16V 0805	2P12	2238 586 59812	100nF 20% 50V 0603	2PE8	2022 552 05679	1µF 10% 16V 0805
21F9	4822 124 11946	22µF 20% 16V	2P13	2238 586 59812	100nF 20% 50V 0603	2PE8	2238 586 59812	100nF 20% 50V 0603
21G1	2238 586 59812	100nF 20% 50V 0603	2P14	2238 586 59812	100nF 20% 50V 0603	2PE9	2022 552 05679	1µF 10% 16V 0805
21G2	5322 124 41945	22µF 20% 35V	2P15	2238 586 59812	100nF 20% 50V 0603	2PE9	4822 126 14585	100nF 10% 0805 50V
21G3	2238 586 59812	100nF 20% 50V 0603	2P16	2238 586 59812	100nF 20% 50V 0603	2PF1	4822 124 23002	10µF 16V
21G4	2238 586 59812	100nF 20% 50V 0603	2P17	4822 126 14583	470nF 10% 16V 0805	2PF2	2238 586 59812	100nF 20% 50V 0603
21G5	2238 586 59812	100nF 20% 50V 0603	2P18	3198 034 05680	5.6pF 1% 50V 0402	2PF3	3198 034 01510	150pF 1% 50V 0402
21G6	2238 586 59812	100nF 20% 50V 0603	2P19	2238 586 59812	100nF 20% 50V 0603	2PF7	2020 004 90283	10µF 20% 10V 1206
21G7	2238 586 59812	100nF 20% 50V 0603	2P20	2022 552 05679	1µF 10% 16V 0805	2PF8	4822 124 23002	10µF 16V
21G8	2238 586 59812	100nF 20% 50V 0603	2P21	2022 552 05679	1µF 10% 16V 0805	2PF9	4822 124 23002	10µF 16V
21G9	2238 586 59812	100nF 20% 50V 0603	2P23	2238 586 59812	100nF 20% 50V 0603	2PG0	2022 552 05679	1µF 10% 16V 0805
21H1	2238 586 59812	100nF 20% 50V 0603	2P24	2238 586 59812	100nF 20% 50V 0603	2PG1	2020 552 96448	1µF 10% 16V 0805
21H2	2238 586 59812	100nF 20% 50V 0603	2P25	3198 032 55130	10µF 20% 20V	2PG6	2020 004 90283	10µF 20% 10V 1206
21H3	2020 552 96618	1nF 10% 50V 0402	2P26	2238 787 15641	22nF 5% 16V 0402	2T01	3198 032 28210	220µF 20% 6.3V
21H4	2022 552 05679	1µF 10% 16V 0805	2P27	2022 552 05679	1µF 10% 16V 0805	2T02	2238 586 15641	22nF 10% 50V 0603
21H5	2238 586 59812	100nF 20% 50V 0603	2P28	2238 586 59812	100nF 20% 50V 0603	2T03	3198 032 28210	220µF 20% 6.3V
21H6	2022 552 05679	1µF 10% 16V 0805	2P29	2022 552 05679	1µF 10% 16V 0805	2T04	2238 586 15641	22nF 10% 50V 0603
21H6	4822 124 11946	22µF 20% 16V	2P29	3198 017 41050	1µF 10V 0603	2T05	3198 032 28210	220µF 20% 6.3V
21H7	2022 552 05679	1µF 10% 16V 0805	2P30	2020 552 96793	4.7nF 10% 50V 0402	2T06	2020 552 96628	10nF 10% 16V 0402
21H7	4822 124 11946	22µF 20% 16V	2P30	3198 035 14720	4.7nF 5% 25V 0402	2T09	3198 017 34730	47nF 16V 0603
21H8	2022 552 05679	1µF 10% 16V 0805	2P31	2238 586 59812	100nF 20% 50V 0603	2T10	3198 017 34730	47nF 16V 0603
21H8	4822 124 11946	22µF 20% 16V	2P32	2238 586 59812	100nF 20% 50V 0603	2T12	2238 586 59812	100nF 20% 50V 0603
21H9	2022 552 05679	1µF 10% 16V 0805	2P33	2238 586 59812	100nF 20% 50V 0603	2T13	2020 552 96628	10nF 10% 16V 0402
21H9	4822 124 11946	22µF 20% 16V	2P34	2238 586 59812	100nF 20% 50V 0603	2T13	5322 126 11583	10nF 10% 50V 0603
21J4	2238 586 59812	100nF 20% 50V 0603	2P35	2238 586 59812	100nF 20% 50V 0603	2T14	5322 126 11583	10nF 10% 50V 0603
21J8	2022 552 05679	1µF 10% 16V 0805	2P36	3198 035 03320	3.3nF 5% 50V 0402	2T15	2022 552 05679	1µF 10% 16V 0805
21J9	2022 552 05679	1µF 10% 16V 0805	2P37	3198 034 01590	15pF 1% 50V 0402	2T16	2022 552 05679	1µF 10% 16V 0805
21K1	2238 780 15654	220nF 10% 16V 0805	2P38	3198 034 01280	1.2pF 1% 50V 0402	2T19	3198 032 28210	220µF 20% 6.3V
21K5	2238 586 59812	100nF 20% 50V 0603	2P43	3198 034 01290	12pF 1% 50V 0402	2T20	3198 032 28210	220µF 20% 6.3V
21K6	2238 586 59812	100nF 20% 50V 0603	2P44	3198 034 01280	1.2pF 1% 50V 0402	2T21	3198 032 28210	220µF 20% 6.3V
21K7	2238 586 59812	100nF 20% 50V 0603	2P45	2238 586 59812	100nF 20% 50V 0603	2T30	2022 552 05635	22µF 10% 16V
21L0	2238 869 15109	10pF 5% 50V 0402	2P46	2238 586 59812	100nF 20% 50V 0603	2T31	2022 552 05635	22µF 10% 16V
21N8	2238 586 59812	100nF 20% 50V 0603	2P47	2238 586 59812	100nF 20% 50V 0603	2T32	2238 586 59812	100nF 20% 50V 0603
21N9	2238 586 59812	100nF 20% 50V 0603	2P57	2022 552 05679	1µF 10% 16V 0805	2T33	2238 586 59812	100nF 20% 50V 0603
21F7	4822 124 12095	100µF 20% 16V	2P57	3198 017 34730	47nF 16V 0603	2T34	2020 552 96618	1nF 10% 50V 0402
21S6	4822 124 12095	100µF 20% 16V	2P58	2022 552 05679	1µF 10% 16V 0805	2T34	2020 552 96621	1.5nF 10% 50V 0402
2L00	4822 124 23237	22µF 6.3V	2P58	3198 017 34730	47nF 16V 0603	2T35	2238 586 59812	100nF 20% 50V 0603
2L01	2238 586 59812	100nF 20% 50V 0603	2P60	2022 552 05679	1µF 10% 16V 0805	2T36	2022 552 05679	1µF 10% 16V 0805
2L02	2238 586 59812	100nF 20% 50V 0603	2P65	2020 004 90283	10µF 20% 10V 1206	2T37	2020 552 96628	10nF 10% 16V 0402
2L03	2238 586 59812	100nF 20% 50V 0603	2P65	2020 004 90297	100µF 20% 16V	2T38	2238 58	

2T51	2022 552 05679	1µF 10% 16V 0805	2Y50	2238 869 15101	100pF 5% 50V 0402	3076	2350 033 10471	4 x 470Ω 5%
2T52	2022 552 05679	1µF 10% 16V 0805	2Y50	2238 869 15109	10pF 5% 50V 0402	3077	3198 031 04720	4.7kΩ 5% 0402
2T53	3198 035 03320	3.3nF 5% 50V 0402	2Y51	2238 869 15101	100pF 5% 50V 0402	3078	2350 033 10471	4 x 470Ω 5%
2T54	2238 586 59812	100nF 20% 50V 0603	2Y52	3198 035 71040	100nF 10% 16V 0402	3079	3198 031 01820	1.8kΩ 5% 0.01W 0402
2U03	2022 552 05679	1µF 10% 16V 0805	2Y53	2238 869 15101	100pF 5% 50V 0402	3080	4822 117 13606	10kΩ 5% 0.01W 0402
2U04	4822 126 14583	470nF 10% 16V 0805	2Z44	4822 126 14519	22pF 5% 50V 0402	3081	4822 117 13543	470Ω 5% 0402
2U05	2020 552 96618	1nF 10% 50V 0402	2Z45	4822 126 14519	22pF 5% 50V 0402	3082	2350 033 10101	4 x 100Ω 5%
2U06	2022 552 05635	22µF 10% 16V	2Z46	4822 126 14519	22pF 5% 50V 0402	3083	2350 033 10101	4 x 100Ω 5%
2U07	2238 869 75829	82pF 5% 50V 0402	2Z47	4822 126 14519	22pF 5% 50V 0402	3084	4822 117 13606	10kΩ 5% 0.01W 0402
2U08	2022 552 05635	22µF 10% 16V	2Z48	4822 126 14519	22pF 5% 50V 0402	3085	2350 033 10101	4 x 100Ω 5%
2U09	2020 552 96618	1nF 10% 50V 0402	2Z49	4822 126 14519	22pF 5% 50V 0402	3086	2350 033 10101	4 x 100Ω 5%
2U10	2022 552 05635	22µF 10% 16V	2Z50	4822 126 14519	22pF 5% 50V 0402	3087	4822 117 13545	100Ω 1% 0402
2U11	2020 552 96618	1nF 10% 50V 0402	2Z51	4822 126 14519	22pF 5% 50V 0402	3088	3198 031 01820	1.8kΩ 5% 0.01W 0402
2U12	2020 552 96628	10nF 10% 16V 0402	2Z52	4822 126 14519	22pF 5% 50V 0402	3089	4822 117 13545	100Ω 1% 0402
2U13	2238 780 15654	220nF 10% 16V 0805	2Z53	4822 126 14519	22pF 5% 50V 0402	3090	2350 033 10471	4 x 470Ω 5%
2U14	4822 126 14583	470nF 10% 16V 0805	2Z54	2022 552 05679	1µF 10% 16V 0805	3091	4822 051 30008	Jumper 0603
2U15	4822 124 12095	100µF 20% 16V	2Z55	2238 586 59812	100nF 20% 50V 0603	3092	3198 031 01820	1.8kΩ 5% 0.01W 0402
2U16	2020 552 96793	4.7nF 10% 50V 0402	2Z56	2020 552 96618	1nF 10% 50V 0402	3093	4822 117 13606	10kΩ 5% 0.01W 0402
2U16	3198 035 14720	4.7nF 5% 25V 0402	2Z59	2238 869 15101	100pF 5% 50V 0402	3097	4822 117 13543	470Ω 5% 0402
2U17	4822 126 14583	470nF 10% 16V 0805	2Z63	2238 586 59812	100nF 20% 50V 0603	3099	2350 033 10471	4 x 470Ω 5%
2U18	3198 034 01210	120pF 1% 50V 0402	2Z64	2238 586 59812	100nF 20% 50V 0603	3100	4822 117 13596	220Ω 5% 0.01W 0402
2U19	2238 586 59812	100nF 20% 50V 0603				3101	4822 117 13596	220Ω 5% 0.01W 0402
2U20	2022 552 05679	1µF 10% 16V 0805				3102	2350 033 10101	4 x 100Ω 5%
2U21	4822 126 14583	470nF 10% 16V 0805				3103	4822 117 13543	470Ω 5% 0402
2U22	2022 552 05679	1µF 10% 16V 0805				3104	2322 750 63908	3.9Ω 5% Fuse 1206
2U23	4822 124 12095	100µF 20% 16V				3105	4822 117 13545	100Ω 1% 0402
2U24	2020 552 96618	1nF 10% 50V 0402				3106	4822 117 13545	47Ω 5% 0402
2U25	2238 586 59812	100nF 20% 50V 0603				3107	4822 117 13543	470Ω 5% 0402
2U26	2238 586 59812	100nF 20% 50V 0603				3108	4822 117 13545	100Ω 1% 0402
2U27	3198 035 26820	6.8nF 10% 16V 0402				3109	4822 117 13545	100Ω 1% 0402
2U28	3198 035 26820	6.8nF 10% 16V 0402				3110	3198 031 01530	15kΩ 5% 0.01W 0402
2U30	3198 034 01210	120pF 1% 50V 0402				3111	4822 117 13545	100Ω 1% 0402
2U31	4822 124 12095	100µF 20% 16V				3112	4822 117 13543	470Ω 5% 0402
2U32	3198 035 03320	3.3nF 5% 50V 0402				3113	4822 117 13543	470Ω 5% 0402
2U33	2022 552 05679	1µF 10% 16V 0805				3114	4822 117 11297	100kΩ 5% 0.1W
2U34	2238 787 15641	22nF 5% 16V 0402				3115	4822 117 11152	4.7Ω 5%
2U35	2022 552 05679	1µF 10% 16V 0805				3116	2322 750 63908	3.9Ω 5% Fuse 1206
2U36	2238 586 59812	100nF 20% 50V 0603				3117	3198 031 05610	560Ω 5% 0.01W 0402
2U37	2020 552 96623	2.2nF 10% 50V 0402				3118	4822 117 13548	1kΩ 5% 0402
2U39	2238 586 59812	100nF 20% 50V 0603				3119	2322 705 70279	27Ω 5% 0402
2U40	2020 552 96623	2.2nF 10% 50V 0402				3120	4822 117 13545	100Ω 1% 0402
2U40	4822 126 14238	2.2nF 50V 0603				3121	3198 031 02720	2.7kΩ 5% 0.01W 0402
2U41	3198 035 26820	6.8nF 10% 16V 0402				3122	4822 117 11152	4.7Ω 5%
2U42	3198 017 34730	47nF 16V 0603				3123	3198 031 02710	270Ω 5% 0.1W 0402
2V11	3198 035 04710	470pF 50V 0402				3124	3198 031 04720	4.7kΩ 5% 0402
2V12	3198 035 04710	470pF 50V 0402				3125	4822 117 13602	2.2kΩ 5% 0.01W 0402
2Y00	2238 869 15101	100pF 5% 50V 0402				3126	3198 031 03910	390Ω 1% 0402
2Y01	2238 869 15101	100pF 5% 50V 0402				3127	3198 031 03390	33Ω 1% 0402
2Y02	2238 869 15101	100pF 5% 50V 0402				3128	4822 117 13548	1kΩ 5% 0402
2Y03	2238 869 15101	100pF 5% 50V 0402				3129	3198 031 04720	4.7kΩ 5% 0402
2Y06	2020 552 96618	1nF 10% 50V 0402				3130	3198 031 01810	180Ω 5% 0402
2Y06	2238 869 15101	100pF 5% 50V 0402				3131	4822 117 13543	470Ω 5% 0402
2Y07	2238 869 15101	100pF 5% 50V 0402				3132	4822 117 13597	330Ω 5% 0402 0.01W
2Y08	2020 552 96618	1nF 10% 50V 0402				3133	3198 031 05620	5.6kΩ 5% 0.01W 0402
2Y08	2238 869 15101	100pF 5% 50V 0402				3134	4822 117 13543	470Ω 5% 0402
2Y09	2238 869 15101	100pF 5% 50V 0402				3135	3198 031 04720	4.7kΩ 5% 0402
2Y10	2238 869 15101	100pF 5% 50V 0402				3136	4822 117 13548	1kΩ 5% 0402
2Y11	2020 552 96618	1nF 10% 50V 0402				3137	3198 031 01090	10Ω 5% 0.01W 0402
2Y11	2238 869 15101	100pF 5% 50V 0402				3138	5322 117 11726	10Ω 5%
2Y12	2238 869 15101	100pF 5% 50V 0402				3139	3198 031 05610	560Ω 5% 0.01W 0402
2Y13	2238 869 15101	100pF 5% 50V 0402				3140	3198 031 02290	22Ω 5% 0.1W 0402
2Y14	2238 869 15101	100pF 5% 50V 0402				3141	4822 117 13548	1kΩ 5% 0402
2Y15	2238 869 15101	100pF 5% 50V 0402				3142	3198 031 01090	10Ω 5% 0.01W 0402
2Y16	2238 869 15101	100pF 5% 50V 0402				3143	3198 031 04720	4.7kΩ 5% 0402
2Y17	2238 869 15101	100pF 5% 50V 0402				3144	4822 117 13545	100Ω 1% 0402
2Y18	2238 869 15101	100pF 5% 50V 0402				3145	4822 117 13545	100Ω 1% 0402
2Y19	2238 869 15101	100pF 5% 50V 0402				3146	4822 117 13545	100Ω 1% 0402
2Y20	2238 869 15101	100pF 5% 50V 0402				3147	4822 117 13545	100Ω 1% 0402
2Y21	2238 869 15101	100pF 5% 50V 0402				3148	3198 031 04730	47Ω 5% 0402
2Y22	2020 552 96618	1nF 10% 50V 0402				3149	3198 031 01810	180Ω 5% 0402
2Y22	2238 869 15101	100pF 5% 50V 0402				3150	3198 031 01810	180Ω 5% 0402
2Y23	2238 869 15101	100pF 5% 50V 0402				3151	3198 031 01810	180Ω 5% 0402
2Y25	2238 869 15101	100pF 5% 50V 0402				3152	4822 117 11297	100kΩ 5% 0.1W
2Y26	2238 869 15101	100pF 5% 50V 0402				3153	4822 117 11297	100kΩ 5% 0.1W
2Y27	2020 552 96618	1nF 10% 50V 0402				3154	4822 117 11297	100kΩ 5% 0.1W
2Y28	2020 552 96618	1nF 10% 50V 0402				3155	3198 031 03320	3.3kΩ 5% 0402
2Y29	2020 552 96618	1nF 10% 50V 0402				3156	4822 117 13606	10kΩ 5% 0.01W 0402
2Y30	4822 124 12095	100µF 20% 16V				3157	4822 117 13545	100Ω 1% 0402
2Y31	4822 124 12095	100µF 20% 16V				3158	4822 117 13548	1kΩ 5% 0402
2Y32	2020 552 96618	1nF 10% 50V 0402				3159	4822 117 13545	100Ω 1% 0402
2Y33	2020 552 96618	1nF 10% 50V 0402				3160	3198 031 03320	3.3kΩ 5% 0402
2Y34	2238 869 15101	100pF 5% 50V 0402				3161	3198 031 01220	1.2kΩ 5% 0.01W 0402
2Y36	2238 869 15101	100pF 5% 50V 0402				3162	3198 031 01510	150Ω 5% 0.01W 0402
2Y37	2238 869 15101	100pF 5% 50V 0402				3163	3198 031 01510	150Ω 5% 0.01W 0402
2Y38	2238 869 15101	100pF 5% 50V 0402				3164	4822 117 13605	Jumper 0402
2Y39	2238 869 15101	100pF 5% 50V 0402				3165	3198 031 05610	560Ω 5% 0.01W 0402
2Y40	2238 869 15101	100pF 5% 50V 0402				3166	3198 031 06810	680Ω 5% 0.01W 0402
2Y41	2238 869 15101	100pF 5% 50V 0402				3167	3198 031 04730	47Ω 5% 0402
2Y42	2238 869 15101	100pF 5% 50V 0402				3168	4822 117 13548	1kΩ 5% 0402
2Y43	2238 869 15101	100pF 5% 50V 0402				3169	4822 117 13545	100Ω 1% 0402
2Y44	2238 869 15101	100pF 5% 50V 0402				3170	4822 117 13545	100Ω 1% 0402
2Y45	2238 869 15101	100pF 5% 50V 0402				3171	4822 117 13548	1kΩ 5% 0402
2Y49	2238 869 15101	100pF 5% 50V 0402				3172	4822 117 13548	1kΩ 5% 0402
2Y49	2238 869 15109	10pF 5% 50V 0402				3173	3198 031 01230	12kΩ 5% 0402

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

3154	4822 051 30101	100Ω 5% 0.062W	31G0	4822 117 13548	1kΩ 5% 0402	31W5	4822 117 13548	1kΩ 5% 0402
3154	4822 117 13545	100Ω 1% 0402	31G1	3198 031 01090	10Ω 5% 0.01W 0402	31W6	4822 117 13548	1kΩ 5% 0402
3155	4822 051 30759	75Ω 5% 0.062W	31G3	3198 031 05610	560Ω 5% 0.01W 0402	31Y1	4822 117 13601	22kΩ 5% 0402
3156	4822 051 30101	100Ω 5% 0.062W	31G3	4822 117 13548	1kΩ 5% 0402	31Y2	3198 031 01540	150kΩ 5% 0402
3156	4822 117 13545	100Ω 1% 0402	31G4	3198 031 01090	10Ω 5% 0.01W 0402	31Y3	4822 117 11297	100kΩ 5% 0.1W
3157	4822 051 30759	75Ω 5% 0.062W	31G6	3198 031 05610	560Ω 5% 0.01W 0402	31Y4	4822 117 11297	100kΩ 5% 0.1W
3158	4822 051 30101	100Ω 5% 0.062W	31G6	4822 117 13548	1kΩ 5% 0402	31O3	4822 117 13545	100Ω 1% 0402
3158	4822 117 13545	100Ω 1% 0402	31G7	3198 031 01090	10Ω 5% 0.01W 0402	31O4	4822 117 13545	100Ω 1% 0402
3159	4822 051 30759	75Ω 5% 0.062W	31H1	3198 031 04730	47Ω 5% 0402	31O5	4822 117 13545	100Ω 1% 0402
3160	4822 051 30759	75Ω 5% 0.062W	31H7	3198 031 05610	560Ω 5% 0.01W 0402	31O6	4822 117 13545	100Ω 1% 0402
3161	4822 051 30101	100Ω 5% 0.062W	31H8	3198 031 04730	47Ω 5% 0402	31O8	3198 031 02720	2.7kΩ 5% 0.01W 0402
3161	4822 117 13545	100Ω 1% 0402	31H9	3198 031 04730	47Ω 5% 0402	31L1	4822 117 13545	100Ω 1% 0402
3162	4822 051 30101	100Ω 5% 0.062W	31HA	4822 117 13545	100Ω 1% 0402	31L2	4822 117 13543	470Ω 5% 0402
3162	4822 117 13545	100Ω 1% 0402	31HB	4822 117 13545	100Ω 1% 0402	31L8	4822 117 13543	470Ω 5% 0402
3163	4822 051 30392	3.9Ω 5% 0.063W 0603	31HC	4822 117 13545	100Ω 1% 0402	31L9	3198 031 01510	150Ω 5% 0.01W 0402
3164	3198 031 08220	8.2kΩ 5% 0.5W	31HG	4822 117 12903	1.8kΩ 1% 0.063W 0603	31L30	3198 031 01510	150Ω 5% 0.01W 0402
3165	4822 051 30101	100Ω 5% 0.062W	31I0	4822 117 13606	10kΩ 5% 0.01W 0402	31L31	3198 031 01510	150Ω 5% 0.01W 0402
3165	4822 117 13545	100Ω 1% 0402	31I1	4822 117 13601	22kΩ 5% 0402	31L32	4822 117 13543	470Ω 5% 0402
3166	4822 051 30759	75Ω 5% 0.062W	31I2	4822 117 13601	22kΩ 5% 0402	31L33	4822 117 13543	470Ω 5% 0402
3167	4822 051 30759	75Ω 5% 0.062W	31I3	3198 031 04730	47Ω 5% 0402	3P00▲	4822 117 11748	Fuse 2.2Ω 5% 1206
3168	4822 051 30101	100Ω 5% 0.062W	31I4	3198 031 04730	47Ω 5% 0402	3P01▲	4822 117 11748	Fuse 2.2Ω 5% 1206
3168	4822 117 13545	100Ω 1% 0402	31I6	4822 117 13601	22kΩ 5% 0402	3P02▲	4822 117 11151	1Ω 5%
3169	4822 051 30271	270Ω 5% 0.062W	31I7	4822 117 13601	22kΩ 5% 0402	3P03	4822 117 13602	2.2kΩ 5% 0.01W 0402
3170	4822 051 30101	100Ω 5% 0.062W	31I8	4822 117 13548	1kΩ 5% 0402	3P04	3198 031 04720	4.7kΩ 5% 0402
3170	4822 117 13545	100Ω 1% 0402	31I9	4822 117 13548	1kΩ 5% 0402	3P05	3198 031 05620	5.6kΩ 5% 0.01W 0402
3171	4822 051 30271	270Ω 5% 0.062W	31J0	4822 117 13545	100Ω 1% 0402	3P06	4822 117 13545	100Ω 1% 0402
3172	4822 051 30101	100Ω 5% 0.062W	31J1	4822 117 13545	100Ω 1% 0402	3P07	3198 031 02720	2.7kΩ 5% 0.01W 0402
3172	4822 117 13545	100Ω 1% 0402	31J8	4822 117 13548	1kΩ 5% 0402	3P07	4822 051 30272	2.7kΩ 5% 0.062W
3175	4822 051 30101	100Ω 5% 0.062W	31K0	4822 117 13548	1kΩ 5% 0402	3P08	3198 031 04720	4.7kΩ 5% 0402
3175	4822 117 13545	100Ω 1% 0402	31K2	4822 117 13601	22kΩ 5% 0402	3P11	4822 117 13546	47Ω 5% 0402
3176	4822 051 30101	100Ω 5% 0.062W	31K3	4822 117 13601	22kΩ 5% 0402	3P16	3198 031 04720	4.7kΩ 5% 0402
3176	4822 117 13545	100Ω 1% 0402	31K7▲	4822 117 11152	4.7Ω 5%	3P18	4822 117 13546	47Ω 5% 0402
3177	4822 051 30759	75Ω 5% 0.062W	31L1	3198 031 05610	560Ω 5% 0.01W 0402	3P22	4822 117 13545	100Ω 1% 0402
3178	4822 051 30759	75Ω 5% 0.062W	31L3	3198 031 01090	10Ω 5% 0.01W 0402	3P23	4822 117 13545	100Ω 1% 0402
3179	4822 051 30101	100Ω 5% 0.062W	31L8	3198 031 05610	560Ω 5% 0.01W 0402	3P24	3198 031 01530	15kΩ 5% 0.01W 0402
3179	4822 117 13545	100Ω 1% 0402	31M0	3198 031 01090	10Ω 5% 0.01W 0402	3P25	3198 031 03910	390Ω 1% 0402
3180	4822 051 30101	100Ω 5% 0.062W	31M4	3198 031 05610	560Ω 5% 0.01W 0402	3P26	4822 117 13543	470Ω 5% 0402
3180	4822 117 13545	100Ω 1% 0402	31N0	3198 031 01090	10Ω 5% 0.01W 0402	3P27	3198 031 01810	180Ω 5% 0402
3181	3198 031 08220	8.2kΩ 5% 0.5W	31N1	4822 117 13548	1kΩ 5% 0402	3P28	3198 031 03910	390Ω 1% 0402
3182	4822 051 30392	3.9Ω 5% 0.063W 0603	31N4	4822 117 11748	Fuse 2.2Ω 5% 1206	3P28	3198 031 08210	820Ω 5% 0.5W
3183	4822 051 30101	100Ω 5% 0.062W	31N5	4822 117 13601	22kΩ 5% 0402	3P29	4822 117 11297	100kΩ 5% 0.1W
3183	4822 117 13545	100Ω 1% 0402	31N6	4822 117 13601	22kΩ 5% 0402	3P30	4822 117 13545	100Ω 1% 0402
3184	4822 051 30759	75Ω 5% 0.062W	31N8	3198 031 01090	10Ω 5% 0.01W 0402	3P31	4822 117 13543	470Ω 5% 0402
3186	4822 051 30759	75Ω 5% 0.062W	31O5	4822 117 13606	10kΩ 5% 0.01W 0402	3P32	3198 031 05610	560Ω 5% 0.01W 0402
3187	4822 051 30101	100Ω 5% 0.062W	31O6	4822 117 13606	10kΩ 5% 0.01W 0402	3P33	4822 117 13548	1kΩ 5% 0402
3187	4822 117 13545	100Ω 1% 0402	31P0	3198 031 08220	8.2kΩ 5% 0.5W	3P34	4822 117 13546	47Ω 5% 0402
3188	4822 051 30759	75Ω 5% 0.062W	31P1	4822 117 13602	2.2kΩ 5% 0.01W 0402	3P35	4822 117 13543	470Ω 5% 0402
3189	4822 051 30271	270Ω 5% 0.062W	31P2	4822 117 13596	220Ω 5% 0.01W 0402	3P36	4822 117 13548	1kΩ 5% 0402
3190	4822 051 30101	100Ω 5% 0.062W	31P3	4822 051 30689	68Ω 5% 0.063W 0603	3P40	3198 031 01210	120Ω 5% 0.01W 0402
3190	4822 117 13545	100Ω 1% 0402	31P3	4822 051 30759	75Ω 5% 0.062W	3P44	4822 117 13545	100Ω 1% 0402
3191	4822 051 30271	270Ω 5% 0.062W	31P4	3198 031 02710	270Ω 5% 0.1W 0402	3P48	4822 117 13545	100Ω 1% 0402
3192	4822 051 30101	100Ω 5% 0.062W	31P5▲	4822 117 11748	Fuse 2.2Ω 5% 1206	3P49	3198 031 03910	390Ω 1% 0402
3192	4822 117 13545	100Ω 1% 0402	31P6	4822 117 13548	1kΩ 5% 0402	3P56	3198 031 01090	10Ω 5% 0.01W 0402
3198	4822 117 11297	100kΩ 5% 0.1W	31P7	3198 031 02720	2.7kΩ 5% 0.01W 0402	3P57	3198 031 06810	680Ω 5% 0.01W 0402
3198	4822 117 13605	Jumper 0402	31P8	4822 117 13548	1kΩ 5% 0402	3P58	4822 117 13545	100Ω 1% 0402
3199	4822 051 30271	270Ω 5% 0.062W	31Q0	3198 031 01090	10Ω 5% 0.01W 0402	3P59	4822 117 13545	100Ω 1% 0402
31A0	4822 051 30101	100Ω 5% 0.062W	31Q5	3198 031 04730	47Ω 5% 0402	3P60	3198 031 06810	680Ω 5% 0.01W 0402
31A0	4822 117 13545	100Ω 1% 0402	31Q6	4822 117 13545	100Ω 1% 0402	3P61	3198 031 02730	27kΩ 5% 0402
31A1	4822 117 11297	100kΩ 5% 0.1W	31Q7	4822 117 13545	100Ω 1% 0402	3P62	3198 031 01090	10Ω 5% 0.01W 0402
31A2	4822 051 30101	100Ω 5% 0.062W	31Q8	3198 031 03320	3.3kΩ 5% 0402	3P63	3198 031 06810	680Ω 5% 0.01W 0402
31A2	4822 117 13545	100Ω 1% 0402	31Q9	4822 117 13548	1kΩ 5% 0402	3P64	3198 031 04720	4.7kΩ 5% 0402
31A3	4822 117 13601	22kΩ 5% 0402	31R1	3198 031 02710	270Ω 5% 0.1W 0402	3P65	4822 117 13545	100Ω 1% 0402
31A4	4822 117 13548	1kΩ 5% 0402	31R2	3198 031 04720	4.7kΩ 5% 0402	3P66	4822 117 13545	100Ω 1% 0402
31A5	4822 117 13548	1kΩ 5% 0402	31R3	3198 031 04720	4.7kΩ 5% 0402	3P67	3198 031 04720	4.7kΩ 5% 0402
31A6	4822 117 13548	1kΩ 5% 0402	31R4	4822 117 13545	100Ω 1% 0402	3P68	3198 031 04720	4.7kΩ 5% 0402
31A7	4822 117 13548	1kΩ 5% 0402	31R5	4822 117 13546	47Ω 5% 0402	3P69	3198 031 04720	4.7kΩ 5% 0402
31A8	4822 117 13548	1kΩ 5% 0402	31R6	4822 117 13546	47Ω 5% 0402	3P70	3198 031 04720	4.7kΩ 5% 0402
31B2	4822 117 13545	100Ω 1% 0402	31R7	4822 117 13543	470Ω 5% 0402	3P72	3198 031 04720	4.7kΩ 5% 0402
31B4	4822 117 13601	22kΩ 5% 0402	31R8	3198 031 03320	3.3kΩ 5% 0402	3P74▲	4822 117 11748	Fuse 1.2Ω 5% 1206
31B5	4822 117 13601	22kΩ 5% 0402	31R9	2322 706 71201	120Ω 1% 0402	3P75	4822 117 13545	100Ω 1% 0402
31C1▲	4822 117 13574	1.5Ω 5% 1206	31S0	2322 706 71201	120Ω 1% 0402	3P76	3198 031 01090	10Ω 5% 0.01W 0402
31C2	4822 117 13601	22kΩ 5% 0402	31S1	2322 706 71201	120Ω 1% 0402	3P85	3198 031 04720	4.7kΩ 5% 0402
31C3	4822 117 13601	22kΩ 5% 0402	31S2	4822 117 13545	100Ω 1% 0402	3P86	4822 117 13606	10kΩ 5% 0.01W 0402
31C4	4822 117 13545	100Ω 1% 0402	31S5	2322 706 71201	120Ω 1% 0402	3P87	4822 117 13606	10kΩ 5% 0.01W 0402
31C6	4822 117 13545	100Ω 1% 0402	31S7	4822 117 11297	100kΩ 5% 0.1W	3P88▲	2322 750 63908	3.9Ω 5% Fuse 1206
31C8	3198 031 05610	560Ω 5% 0.01W 0402	31T0	3198 031 04730	47Ω 5% 0402	3P90	3198 031 05610	560Ω 5% 0.01W 0402
31C9	4822 117 13601	22kΩ 5% 0402	31T1	3198 031 04730	47Ω 5% 0402	3P91	3198 031 05610	560Ω 5% 0.01W 0402
31D0	3198 031 04720	4.7kΩ 5% 0402	31T4	3198 031 04730	47Ω 5% 0402	3P92	3198 031 05610	560Ω 5% 0.01W 0402
31D1	3198 031 01540	150kΩ 5% 0402	31T5	2322 706 71201	120Ω 1% 0402	3P96	3198 031 04720	4.7kΩ 5% 0402
31D5	3198 031 01090	10Ω 5% 0.01W 0402	31T6	2322 706 71201	120Ω 1% 0402	3P97	3198 031 04720	4.7kΩ 5% 0402
31D7	4822 117 11297	100kΩ 5% 0.1W	31T7	4822 117 13548	1kΩ 5% 0402	3P98	3198 031 01090	10Ω 5% 0.01W 0402
31D8	4822 117 11297	100kΩ 5% 0.1W	31T8	4822 117 13548	1kΩ 5% 0402	3P99	3198 031 06810	680Ω 5% 0.01W 0402
31D9	3198 031 05610	560Ω 5% 0.01W 0402	31T9	4822 117 13597	330Ω 5% 0402 0.01W	3PA0	4822 117 13596	220Ω 5% 0.01W 0402
31E2	4822 117 13545	100Ω 1% 0402	31U0▲	4822 117 11748	Fuse 2.2Ω 5% 1206	3PA1	4822 117 13545	100Ω 5% 0402
31E3	4822 117 13545	100Ω 1% 0402	31V0	3198 031 08220				

3PC0	3198 031 03320	3.3kΩ 5% 0402	3U04	4822 051 20121	120Ω 5% 0.1W	3V39	3198 031 04720	4.7kΩ 5% 0402
3PC1	4822 117 13545	100Ω 1% 0402	3U05	4822 051 30102	1kΩ 5% 0.062W	3V40	4822 117 13545	100Ω 1% 0402
3PC2	4822 117 13545	100Ω 1% 0402	3U06	4822 117 13548	1kΩ 5% 0402	3V50	4822 117 13606	10kΩ 5% 0.01W 0402
3PC4	3198 031 06810	680Ω 5% 0.01W 0402	3U07	4822 117 13543	470Ω 5% 0402	3V51	4822 117 13606	10kΩ 5% 0.01W 0402
3PC5	3198 031 04720	4.7kΩ 5% 0402	3U08	3198 031 02290	22Ω 5% 0.1W 0402	3V52	3198 031 04730	47Ω 5% 0402
3PC6	3198 031 03930	39kΩ 5% 0402	3U09	2322 706 71502	1.5kΩ 1% 0402	3V52	4822 117 13606	10kΩ 5% 0.01W 0402
3PC7	4822 117 13596	220Ω 5% 0.01W 0402	3U10	3198 031 05620	5.6kΩ 5% 0.01W 0402	3V53	3198 031 04730	47Ω 5% 0402
3PC8	4822 117 13545	100Ω 1% 0402	3U10	3198 031 01210	120Ω 5% 0.01W 0402	3V53	4822 117 13606	10kΩ 5% 0.01W 0402
3PD0	4822 117 13596	220Ω 5% 0.01W 0402	3U10	4822 117 13596	220Ω 5% 0.01W 0402	3V54	4822 117 13606	10kΩ 5% 0.01W 0402
3PD2	4822 117 13545	100Ω 1% 0402	3U11	4822 051 30121	120Ω 5% 0.062W	3V55	4822 117 13606	10kΩ 5% 0.01W 0402
3PD3	3198 031 01820	1.8kΩ 5% 0.01W 0402	3U12	4822 117 13601	22kΩ 5% 0402	3V56	4822 117 13545	100Ω 1% 0402
3PD5	3198 031 03320	3.3kΩ 5% 0402	3U13	4822 117 13606	10kΩ 5% 0.01W 0402	3Y00	4822 117 13545	100Ω 1% 0402
3PD7	3198 031 01520	1.2kΩ 5% 0.01W 0402	3U14	4822 051 30102	1kΩ 5% 0.062W	3Y01	4822 117 13545	100Ω 1% 0402
3PD8	3198 031 03320	3.3kΩ 5% 0402	3U15	2322 706 73302	3.3kΩ 1% 0402	3Y02	4822 117 13545	100Ω 1% 0402
3PD9	3198 031 03320	3.3kΩ 5% 0402	3U16	3198 031 01210	120Ω 5% 0.01W 0402	3Y03	4822 117 13545	100Ω 1% 0402
3PE0	3198 031 01520	1.2kΩ 5% 0.01W 0402	3U17	3198 031 04780	4.7Ω 5% 0402	3Y04	4822 117 13602	2.2kΩ 5% 0.01W 0402
3PE2	3198 031 01520	1.2kΩ 5% 0.01W 0402	3U18	2322 704 61002	1kΩ 1%	3Y05	4822 117 13545	100Ω 1% 0402
3PE9	4822 117 13597	330Ω 5% 0402 0.01W	3U18	2322 706 71002	1kΩ 1% 0402	3Y06	4822 117 13543	470Ω 5% 0402
3PF0	3198 031 01210	120Ω 5% 0.01W 0402	3U19	3198 031 04720	4.7kΩ 5% 0402	3Y06	4822 117 13545	100Ω 1% 0402
3PF1	3198 031 01520	1.2kΩ 5% 0.01W 0402	3U20	2322 704 61002	1kΩ 1%	3Y07	4822 117 13545	100Ω 1% 0402
3PF2	3198 031 02710	270Ω 5% 0.1W 0402	3U20	2322 706 71002	1kΩ 1% 0402	3Y08	4822 117 13545	100Ω 1% 0402
3PF3	3198 031 03320	3.3kΩ 5% 0402	3U21	3198 031 04730	47Ω 5% 0402	3Y09	4822 117 13545	100Ω 1% 0402
3PF4	4822 117 13601	22kΩ 5% 0402	3U22	3198 031 02710	270Ω 5% 0.1W 0402	3Y10	4822 117 13545	100Ω 1% 0402
3PF5	4822 117 13548	1kΩ 5% 0402	3U23	3198 031 01090	10Ω 5% 0.01W 0402	3Y11	4822 117 13545	100Ω 1% 0402
3PF6	3198 031 05610	560Ω 5% 0.01W 0402	3U24	4822 117 13601	22kΩ 5% 0402	3Y12	4822 117 13545	100Ω 1% 0402
3PF7	4822 117 13543	470Ω 5% 0402	3U25	3198 031 02240	220kΩ 5% 0.1W 0402	3Y13	4822 117 13543	470Ω 5% 0402
3PF7	4822 117 13545	100Ω 1% 0402	3U26	4822 117 13601	22kΩ 5% 0402	3Y13	4822 117 13545	100Ω 1% 0402
3PF8	3198 031 08210	820Ω 5% 0.5W	3U27	4822 117 13601	22kΩ 5% 0402	3Y14	3198 031 04720	4.7kΩ 5% 0402
3PF9	3198 031 01210	120Ω 5% 0.01W 0402	3U28	3198 031 04730	47Ω 5% 0402	3Y14	4822 051 30102	1kΩ 5% 0.062W
3PG0	3198 031 05610	560Ω 5% 0.01W 0402	3U29	4822 051 30109	10Ω 5% 0.062W	3Y14	4822 117 13548	1kΩ 5% 0402
3PG1	3198 031 06890	68Ω 5% 0402	3U30	4822 051 20121	120Ω 5% 0.1W	3Y15	4822 051 30102	1kΩ 5% 0.062W
3PG2	3198 031 06810	680Ω 5% 0.01W 0402	3U31	4822 051 20121	120Ω 5% 0.1W	3Y15	4822 117 13548	1kΩ 5% 0402
3PG3	3198 031 06810	680Ω 5% 0.01W 0402	3U32	3198 031 01830	18kΩ 5% 0.01W 0402	3Y16	4822 051 30102	1kΩ 5% 0.062W
3PG4	3198 031 06810	680Ω 5% 0.01W 0402	3U33	4822 117 13606	10kΩ 5% 0.01W 0402	3Y16	4822 117 13548	1kΩ 5% 0402
3PG5	3198 031 06810	680Ω 5% 0.01W 0402	3U34	3198 031 04740	470kΩ 5% 0402	3Y17	4822 117 13545	100Ω 1% 0402
3PG6	3198 031 06810	680Ω 5% 0.01W 0402	3U35	4822 117 13606	10kΩ 5% 0.01W 0402	3Y18	4822 117 13545	100Ω 1% 0402
3PG7	3198 031 04720	4.7kΩ 5% 0402	3U36	4822 117 13602	2.2kΩ 5% 0.01W 0402	3Y19	4822 117 13545	100Ω 1% 0402
3PG8	4822 117 13548	1kΩ 5% 0402	3U37	4822 117 13601	22kΩ 5% 0402	3Y20	3198 031 06890	68Ω 5% 0402
3PH2	4822 117 13546	47Ω 5% 0402	3U38	4822 117 13602	2.2kΩ 5% 0.01W 0402	3Y20	4822 117 12521	68Ω 5% 0.1W
3PH3	4822 117 13546	47Ω 5% 0402	3U39	4822 117 13601	22kΩ 5% 0402	3Y21	3198 031 06890	68Ω 5% 0402
3PH4	4822 117 13546	47Ω 5% 0402	3U40	3198 031 01540	150kΩ 5% 0402	3Y22	3198 031 06890	68Ω 5% 0402
3PH5	4822 117 13546	47Ω 5% 0402	3U41	4822 117 13548	1kΩ 5% 0402	3Y23	3198 031 06890	68Ω 5% 0402
3PH6	4822 117 13546	47Ω 5% 0402	3U42	4822 117 13606	10kΩ 5% 0.01W 0402	3Y24	4822 117 11297	100kΩ 5% 0.1W
3PH7	4822 117 13546	47Ω 5% 0402	3U43	4822 117 13601	22kΩ 5% 0402	3Y25	4822 117 13545	100Ω 1% 0402
3PH8	4822 117 13546	47Ω 5% 0402	3U44	3198 031 01050	1MΩ 5% 0402	3Y27	4822 117 13545	100Ω 1% 0402
3PH9	4822 117 13546	47Ω 5% 0402	3U45	3198 031 01050	1MΩ 5% 0402	3Y28	4822 117 13545	100Ω 1% 0402
3PI0	4822 117 13546	47Ω 5% 0402	3U46	2322 706 74703	47kΩ 1% 0402	3Y29	3198 031 05620	5.6kΩ 5% 0.01W 0402
3PJ0	3198 031 01090	10Ω 5% 0.01W 0402	3U46	5322 117 13029	47kΩ 1% 0.063W 0603	3Y30	3198 031 01530	15kΩ 5% 0.01W 0402
3PJ1	3198 031 06810	680Ω 5% 0.01W 0402	3U51	9965 000 23109	22Ω 5% 0603	3Y34	4822 117 13545	100Ω 1% 0402
3PJ2	4822 117 13597	330Ω 5% 0402 0.01W	3U52	4822 051 30102	1kΩ 5% 0.062W	3Y35	4822 117 13545	100Ω 1% 0402
3PJ3	3198 031 01210	120Ω 5% 0.01W 0402	3U53	3198 031 01830	18kΩ 5% 0.01W 0402	3Y36	4822 117 13545	100Ω 1% 0402
3PJ4	3198 031 06810	680Ω 5% 0.01W 0402	3U54	4822 117 13545	100Ω 1% 0402	3Y37	3198 031 04720	4.7kΩ 5% 0402
3PJ5	3198 031 08210	820Ω 5% 0.5W	3U55	4822 051 30102	1kΩ 5% 0.062W	3Y37	4822 117 13545	100Ω 1% 0402
3PJ7	4822 117 13602	2.2kΩ 5% 0.01W 0402	3U56	3198 031 04720	4.7kΩ 5% 0402	3Y38	4822 117 13602	2.2kΩ 5% 0.01W 0402
3PJ8	3198 031 01820	1.8kΩ 5% 0.01W 0402	3U57	4822 117 13606	10kΩ 5% 0.01W 0402	3Y39	4822 117 13606	10kΩ 5% 0.01W 0402
3PJ9	3198 031 04720	4.7kΩ 5% 0402	3U60	4822 117 13548	1kΩ 5% 0402	3Y40	4822 117 13545	100Ω 1% 0402
3TI0	4822 117 13606	10kΩ 5% 0.01W 0402	3U61	4822 117 13606	10kΩ 5% 0.01W 0402	3Z22	3198 031 04720	4.7kΩ 5% 0402
3TI1	4822 117 13606	10kΩ 5% 0.01W 0402	3U62	4822 117 13548	1kΩ 5% 0402	3Z23	4822 117 13545	100Ω 1% 0402
3TI2	4822 117 13548	1kΩ 5% 0402	3U63	4822 117 13602	2.2kΩ 5% 0.01W 0402	3Z27▲	4822 117 11151	1Ω 5%
3TI3	4822 117 13606	10kΩ 5% 0.01W 0402	3U64	4822 117 13548	1kΩ 5% 0402	3Z28▲	2422 086 00644	Fuse 1A T 125V
3TI4	3198 031 04730	47Ω 5% 0402	3U65	4822 117 13548	1kΩ 5% 0402	3Z28▲	4822 117 11151	1Ω 5%
3TI5	4822 117 13548	1kΩ 5% 0402	3U66	4822 117 13606	10kΩ 5% 0.01W 0402	3Z29	4822 117 13546	47Ω 5% 0402
3TI5	4822 117 13606	10kΩ 5% 0.01W 0402	3U67	4822 117 13545	100Ω 1% 0402	3Z30	3198 031 04730	47Ω 5% 0402
3TI6	4822 117 11297	100kΩ 5% 0.1W	3U68	4822 117 13606	10kΩ 5% 0.01W 0402	3Z30	4822 117 13606	10kΩ 5% 0.01W 0402
3TI7	4822 117 13606	10kΩ 5% 0.01W 0402	3U69	4822 117 13548	1kΩ 5% 0402	3Z31	3198 031 04730	47Ω 5% 0402
3TI8	3198 031 02720	2.7kΩ 5% 0.01W 0402	3U70	4822 051 30102	1kΩ 5% 0.062W	3Z31	4822 117 13606	10kΩ 5% 0.01W 0402
3TI9	4822 117 13596	220Ω 5% 0.01W 0402	3V01	3198 031 01810	180Ω 5% 0402	3Z32	4822 117 13606	10kΩ 5% 0.01W 0402
3T20	2322 706 71002	1kΩ 1% 0402	3V02	3198 031 01810	180Ω 5% 0402	3Z33	4822 117 13606	10kΩ 5% 0.01W 0402
3T22	3198 031 04720	4.7kΩ 5% 0402	3V17	3198 031 01810	180Ω 5% 0402	3Z37	3198 031 04720	4.7kΩ 5% 0402
3T23	4822 117 13548	1kΩ 5% 0402	3V18	3198 031 03910	390Ω 1% 0402	3Z55	4822 117 13545	100Ω 1% 0402
3T24	2322 706 73902	3.9kΩ 1% 0402	3V19	3198 031 01810	180Ω 5% 0402	3Z56	4822 117 13548	1kΩ 5% 0402
3T25	3198 031 06820	6.8kΩ 5% 0.01W 0402	3V20	3198 031 01810	180Ω 5% 0402	9001	4822 117 13605	Jump# 0402
3T26	4822 117 13613	2.2Ω 5% 0603	3V21	2350 033 11339	4 x 33Ω 5%	9002	4822 117 13605	Jump# 0402
3T27	4822 051 30109	10Ω 5% 0.062W	3V21	2350 033 11689	4x 68Ω 5% Netw.	9007	4822 117 13605	Jump# 0402
3T27	4822 117 13613	2.2Ω 5% 0603	3V22	2350 033 11339	4 x 33Ω 5%	9010	4822 117 13605	Jump# 0402
3T28	4822 051 30109	10Ω 5% 0.062W	3V22	2350 033 11689	4x 68Ω 5% Netw.	9011▲	4822 117 13605	Jump# 0402
3T29	4822 117 13606	10kΩ 5% 0.01W 0402	3V23	2350 033 11339	4 x 33Ω 5%	9012	4822 117 13605	Jump# 0402
3T30	4822 117 13606	10kΩ 5% 0.01W 0402	3V23	2350 033 11689	4x 68Ω 5% Netw.	9013	4822 117 13605	Jump# 0402
3T31	4822 117 13545	100Ω 1% 0402	3V24	2350 033 11339	4 x 33Ω 5%	9016	4822 051 30008	Jump# 0603
3T32	4822 117 13548	1kΩ 5% 0402	3V24	2350 033 11689	4x 68Ω 5% Netw.	9019	4822 117 13605	Jump# 0402
3T33▲	5322 117 11726	10Ω 5%	3V25	3198 031 01810	180Ω 5% 0402	9020	4822 117 13605	Jump# 0402
3T51	4822 117 13548	1kΩ 5% 0402	3V26	3198 031 01810	180Ω 5% 0402	9023	4822 117 13605	Jump# 0402
3T52	4822 117 13606	10kΩ 5% 0.01W 0402	3V27	3198 031 01810	180Ω 5% 0402	9024	4822 117 13605	Jump# 0402
3T53	3198 031 04740	470kΩ 5% 0402	3V28	3198 031 01810	180Ω 5% 0402	9322	4822 117 13605	Jump# 0402
3T54	4822 117 13606	10kΩ 5% 0.01W 0402	3V29	3198 031 01810	180Ω 5% 0402	9410	4822 117 13605	Jump# 0402
3T55	4822 117 13606	10kΩ 5% 0.01W 0402</						

9426	4822 117 13605	Jumper 0402	9E62	4822 117 13605	Jumper 0402	5003	4822 157 11716	Bead 30Ω at 100MHz
9427	4822 117 13545	100Ω 1% 0402	9E65	4822 117 13605	Jumper 0402	5401	3198 018 56880	6.8μH 10% 0603
9428	4822 117 13605	Jumper 0402	9E66	4822 117 13605	Jumper 0402	5403	2422 549 00195	Bead 40.4MHz
9702	4822 117 13605	Jumper 0402	9E67	4822 117 13605	Jumper 0402	5404	4822 157 11506	Bead 120Ω at 100MHz
9704	4822 117 13605	Jumper 0402	9E68	4822 117 13605	Jumper 0402	5405	4822 157 11506	Bead 120Ω at 100MHz
9706	4822 117 13605	Jumper 0402	9E69	4822 117 13605	Jumper 0402	5406	3198 018 52280	2.2μF 10% 1008
9707	4822 117 13605	Jumper 0402	9E70	4822 117 13605	Jumper 0402	5408	2422 549 44983	Trimmer 78MHz 5CCB
9708	4822 117 13605	Jumper 0402	9E71	4822 117 13605	Jumper 0402	5411	4822 157 11892	0.22μH 10% 0805
9709	4822 117 13605	Jumper 0402	9E72	4822 117 13605	Jumper 0402	5415	4822 157 11716	Bead 30Ω at 100MHz
9710	4822 117 13605	Jumper 0402	9E73	4822 117 13605	Jumper 0402	5416	4822 157 11716	Bead 30Ω at 100MHz
9713	4822 117 13605	Jumper 0402	9E74	4822 117 13605	Jumper 0402	5703	4822 157 11716	Bead 30Ω at 100MHz
9714	4822 117 13605	Jumper 0402	9E76	4822 117 13605	Jumper 0402	5705	4822 157 11876	6.8μH 10% 0805
9715	4822 117 13605	Jumper 0402	9E77	4822 117 13605	Jumper 0402	5713	4822 157 11716	Bead 30Ω at 100MHz
9716	4822 117 13605	Jumper 0402	9I00	4822 117 13605	Jumper 0402	5714	4822 157 11716	Bead 30Ω at 100MHz
9717	4822 117 13605	Jumper 0402	9I01	4822 117 13605	Jumper 0402	5719	4822 157 11716	Bead 30Ω at 100MHz
9718	4822 117 13605	Jumper 0402	9I02	4822 117 13605	Jumper 0402	5720	4822 157 11716	Bead 30Ω at 100MHz
9720	4822 117 13605	Jumper 0402	9I03	4822 117 13605	Jumper 0402	5722	4822 157 11716	Bead 30Ω at 100MHz
9721	4822 117 13605	Jumper 0402	9I07	4822 117 13605	Jumper 0402	5723	4822 157 11716	Bead 30Ω at 100MHz
9722	4822 117 13605	Jumper 0402	9I15	4822 117 13605	Jumper 0402	5726	4822 157 11716	Bead 30Ω at 100MHz
9723	4822 117 13605	Jumper 0402	9I16	4822 117 13605	Jumper 0402	5728	4822 157 11716	Bead 30Ω at 100MHz
9724	4822 117 13605	Jumper 0402	9I18	4822 117 13605	Jumper 0402	5750	4822 157 11716	Bead 30Ω at 100MHz
9727	4822 117 13605	Jumper 0402	9I19	4822 117 13605	Jumper 0402	5751	4822 157 11716	Bead 30Ω at 100MHz
9728	4822 117 13605	Jumper 0402	9I24	4822 117 13605	Jumper 0402	5752	4822 157 11716	Bead 30Ω at 100MHz
9730	4822 117 13605	Jumper 0402	9I28	4822 117 13605	Jumper 0402	5753	4822 157 11716	Bead 30Ω at 100MHz
9732	4822 117 13605	Jumper 0402	9I39	4822 117 13605	Jumper 0402	5755	4822 157 11716	Bead 30Ω at 100MHz
9750	4822 117 13605	Jumper 0402	9I45	4822 117 13605	Jumper 0402	5756	4822 157 11716	Bead 30Ω at 100MHz
9751	4822 117 13605	Jumper 0402	9I46	4822 117 13605	Jumper 0402	5757	4822 157 11716	Bead 30Ω at 100MHz
9752	4822 117 13605	Jumper 0402	9I47	4822 117 13605	Jumper 0402	5758	4822 157 11716	Bead 30Ω at 100MHz
9753	4822 117 13605	Jumper 0402	9I48	4822 117 13605	Jumper 0402	5759	4822 157 11716	Bead 30Ω at 100MHz
9754	4822 117 13605	Jumper 0402	9I49	4822 117 13605	Jumper 0402	5760	4822 157 11716	Bead 30Ω at 100MHz
9755	4822 117 13605	Jumper 0402	9I68	4822 117 13605	Jumper 0402	5761	4822 157 11716	Bead 30Ω at 100MHz
9756	4822 117 13605	Jumper 0402	9I77	4822 117 13605	Jumper 0402	5762	4822 157 11716	Bead 30Ω at 100MHz
9757	4822 117 13605	Jumper 0402	9I85	4822 117 13605	Jumper 0402	5763	4822 157 11716	Bead 30Ω at 100MHz
9758	4822 117 13605	Jumper 0402	9IA1	4822 051 20008	Jumper 0805	5764	4822 157 11716	Bead 30Ω at 100MHz
9760	4822 117 13605	Jumper 0402	9IA1	4822 117 13605	Jumper 0402	5767	4822 157 11716	Bead 30Ω at 100MHz
9761	4822 117 13605	Jumper 0402	9IA3	4822 051 20008	Jumper 0805	5768	4822 157 11716	Bead 30Ω at 100MHz
9762	4822 117 13605	Jumper 0402	9IA3	4822 117 13605	Jumper 0402	5769	4822 157 11716	Bead 30Ω at 100MHz
9763	4822 117 13605	Jumper 0402	9IA5	4822 117 13605	Jumper 0402	5770	4822 157 11716	Bead 30Ω at 100MHz
9765	4822 117 13605	Jumper 0402	9IA7	4822 117 13605	Jumper 0402	5771	4822 157 11716	Bead 30Ω at 100MHz
9766	4822 117 13605	Jumper 0402	9ID0	4822 117 13605	Jumper 0402	5772	4822 157 11716	Bead 30Ω at 100MHz
9772	4822 117 13605	Jumper 0402	9ID1	4822 117 13605	Jumper 0402	5775	4822 157 11716	Bead 30Ω at 100MHz
9773	4822 117 13605	Jumper 0402	9ID3	4822 117 13605	Jumper 0402	5777	4822 157 11716	Bead 30Ω at 100MHz
9774	4822 117 13605	Jumper 0402	9ID5	4822 117 13605	Jumper 0402	5778	4822 157 11876	6.8μH 10% 0805
9775	4822 117 13605	Jumper 0402	9ID8	4822 117 13605	Jumper 0402	5779	4822 157 11716	Bead 30Ω at 100MHz
9800	4822 117 13605	Jumper 0402	9ID9	4822 117 13605	Jumper 0402	5800	4822 157 11716	Bead 30Ω at 100MHz
9801	4822 117 13605	Jumper 0402	9P02	4822 117 13605	Jumper 0402	5801	4822 157 11716	Bead 30Ω at 100MHz
9802	4822 117 13605	Jumper 0402	9P03	4822 117 13605	Jumper 0402	5A00	4822 157 11716	Bead 30Ω at 100MHz
9803	4822 117 13605	Jumper 0402	9P05	4822 117 13605	Jumper 0402	5A01	4822 157 11716	Bead 30Ω at 100MHz
9804	4822 117 13605	Jumper 0402	9P09	4822 117 13605	Jumper 0402	5A02	4822 157 11716	Bead 30Ω at 100MHz
9805	4822 117 13605	Jumper 0402	9P12	4822 117 13605	Jumper 0402	5A03	4822 157 11716	Bead 30Ω at 100MHz
9806	4822 117 13605	Jumper 0402	9P13	4822 117 13605	Jumper 0402	5A06	4822 157 11716	Bead 30Ω at 100MHz
9808	4822 117 13605	Jumper 0402	9P15	4822 117 13605	Jumper 0402	5A19	4822 157 11828	22μH 10% 0805
9809	4822 117 13605	Jumper 0402	9P17	4822 117 13605	Jumper 0402	5E00	4822 156 21729	Bead 1kΩ 100MHz 0805
9811	4822 117 13605	Jumper 0402	9P24	4822 117 13605	Jumper 0402	5E01	2422 549 42896	Bead 120Ω 100MHz
9812	4822 117 13605	Jumper 0402	9P28	4822 117 13605	Jumper 0402	5E01	4822 156 21729	Bead 1kΩ 100MHz 0805
9813	2350 033 11689	4x 68Ω 5% Netw.	9P29	4822 117 13605	Jumper 0402	5E02	4822 156 21729	Bead 1kΩ 100MHz 0805
9814	2350 033 11689	4x 68Ω 5% Netw.	9P52	4822 117 13605	Jumper 0402	5E03	4822 156 21729	Bead 1kΩ 100MHz 0805
9815	2350 033 11229	4x 22Ω 5% Netw.	9P53	4822 117 13605	Jumper 0402	5E50	2422 549 43062	Bead 100Ω at 100MHz
9815	4822 117 13605	Jumper 0402	9P54	4822 117 13605	Jumper 0402	5E50	4822 157 11499	Bead 10Ω at 100MHz
9816	2350 033 11229	4x 22Ω 5% Netw.	9P69	4822 117 13605	Jumper 0402	5E51	2422 549 42896	Bead 120Ω 100MHz
9816	4822 117 13605	Jumper 0402	9P70	4822 117 13605	Jumper 0402	5E51	2422 549 43062	Bead 100Ω at 100MHz
9817	2350 033 11229	4x 22Ω 5% Netw.	9P71	4822 117 13605	Jumper 0402	5E52	2422 549 43062	Bead 100Ω at 100MHz
9817	4822 117 13605	Jumper 0402	9P73	4822 117 13605	Jumper 0402	5E53	2422 535 94134	10μH 10% 0805
9818	4822 117 13605	Jumper 0402	9P74	4822 117 13605	Jumper 0402	5E53	2422 536 00779	10μH 10%
9819	2350 033 11229	4x 22Ω 5% Netw.	9P75	4822 117 13605	Jumper 0402	5E54	2422 549 43062	Bead 100Ω at 100MHz
9820	2350 033 11229	4x 22Ω 5% Netw.	9PA2	4822 117 13605	Jumper 0402	5E54	4822 157 11499	Bead 10Ω at 100MHz
9820	4822 117 13605	Jumper 0402	9PA7	4822 117 13605	Jumper 0402	5E55	2422 549 43062	Bead 100Ω at 100MHz
9821	3198 031 06890	68Ω 5% 0402	9PB1	4822 117 13605	Jumper 0402	5E58	2422 549 43062	Bead 100Ω at 100MHz
9821	4822 117 13605	Jumper 0402	9PB2	4822 117 13605	Jumper 0402	5I01	4822 157 11876	6.8μH 10% 0805
9822	3198 031 06890	68Ω 5% 0402	9PB4	4822 117 13605	Jumper 0402	5I05	4822 157 11716	Bead 10Ω at 100MHz
9822	4822 117 13605	Jumper 0402	9PB5	4822 117 13605	Jumper 0402	5I12	4822 157 11716	Bead 10Ω at 100MHz
9823	3198 031 06890	68Ω 5% 0402	9PB8	4822 117 13605	Jumper 0402	5I13	4822 157 11716	Bead 10Ω at 100MHz
9824	3198 031 06890	68Ω 5% 0402	9T01	4822 117 13601	22kΩ 5% 0402	5I21	4822 157 11716	Bead 10Ω at 100MHz
9825	3198 031 06890	68Ω 5% 0402	9T02	4822 051 30223	22kΩ 5% 0.062W	5I22	4822 157 11716	Bead 10Ω at 100MHz
9825	4822 117 13605	Jumper 0402	9T02	4822 117 13601	22kΩ 5% 0402	5I30	4822 157 11716	Bead 10Ω at 100MHz
9826	3198 031 06890	68Ω 5% 0402	9T04	4822 117 13605	Jumper 0402	5I31	4822 157 11716	Bead 10Ω at 100MHz
9826	4822 117 13605	Jumper 0402	9T06	4822 117 13605	Jumper 0402	5I32	4822 157 11716	Bead 10Ω at 100MHz
9827	3198 031 06890	68Ω 5% 0402	9T07	4822 117 13605	Jumper 0402	5I33	4822 157 11716	Bead 10Ω at 100MHz
9827	4822 117 13605	Jumper 0402	9T08	4822 117 13605	Jumper 0402	5I34	4822 157 11716	Bead 10Ω at 100MHz
9A02	4822 117 13605	Jumper 0402	9T09	4822 117 13605	Jumper 0402	5I35	4822 157 11716	Bead 10Ω at 100MHz
9A03	4822 117 13605	Jumper 0402	9T10	4822 117 13605	Jumper 0402	5I36	3198 018 34770	0.47μH 10% 0805
9A07	4822 117 13605	Jumper 0402	9T11	4822 117 13605	Jumper 0402	5I36	4822 157 11892	0.22μH 10% 0805
9A10	4822 117 13605	Jumper 0402	9T12	4822 117 13605	Jumper 0402	5I37	3198 018 34770	0.47μH 10% 0805
9A11	4822 117 13605	Jumper 0402	9T14	4822 117 13605	Jumper 0402	5I38	4822 157 11892	0.22μH 10% 0805
9A12	4822 117 13605	Jumper 0402	9T50	4822 117 13605	Jumper 0402	5I39	4822 157 11716	Bead 10Ω at 100MHz
9A13	4822 117 13605	Jumper 0402	9Y00	4822 117 13605	Jumper 0402	5I40	4822 157 11716	Bead 10Ω at 100MHz
9A14	4822 117 13605	Jumper 0402	9Y01	4822 117 13605	Jumper 0402	5I41	4822 157 11716	Bead 10Ω at 100MHz
9A15	4822 117 13605	Jumper 0402	9Y03	4822 117 13605	Jumper 0402			
9A16	4822 117 13605	Jumper 0402	9Y05	4822 117 13605	Jumper 0402			
9A17	4822 117 13605	Jumper 0402	9Y06	4822 117 13605	Jumper 0402			
9A25	4822 117 13605	Jumper 0402	9Y12	4822 117 13605	Jumper 0402			
9A65	4822 117 13605	Jumper 0402	9Y13	4822 117 13605	Jumper 0402			
9C02	4822 117 13605	Jumper 0402	9Y14	4822 117 13605	Jumper 0402			
9E60	4822 117 13605	Jumper 0402	9Y16	4822 117 13605	Jumper 0402			

5I42	4822 156 21729	Bead 1kΩ 100MHz 0805	6002	4822 130 11397	BAS316	6I90	4822 130 11416	PDZ6.8B
5I45	4822 157 11716	Bead 30Ω at 100MHz	6003	4822 130 80622	BAT54	6I91	4822 130 11416	PDZ6.8B
5I46	4822 157 11716	Bead 30Ω at 100MHz	6004	4822 130 80622	BAT54	6I92	4822 130 11416	PDZ6.8B
5I47	4822 157 11716	Bead 30Ω at 100MHz	6005	4822 130 11422	PLVA2650A	6I93	4822 130 11416	PDZ6.8B
5L02	3198 018 51080	1μH 10% 0603	6006	4822 130 11564	UDZ3.9B	6I99	4822 130 11422	PLVA2650A
5L02	3198 018 54770	0.47μF 10% 0603	6403	9340 552 30115	BA591	6I99	4822 130 11423	PLVA2656A
5L04	3198 018 54770	0.47μF 10% 0603	6701	4822 130 11397	BAS316	6IA0	9322 129 41685	BZM55-C12
5L06	3198 018 51080	1μH 10% 0603	6702	4822 130 11397	BAS316	6IA7	4822 130 11397	BAS316
5L06	3198 018 54770	0.47μF 10% 0603	6703	4822 130 11397	BAS316	6P03	9340 552 30115	BA591
5L13	4822 156 21729	Bead 1kΩ 100MHz 0805	6705	4822 130 11397	BAS316	6P10	9322 102 64685	UDZ2.7B
5L14	4822 156 21729	Bead 1kΩ 100MHz 0805	6710	4822 130 11397	BAS316	6PA1	4822 130 11397	BAS316
5L15	4822 156 21729	Bead 1kΩ 100MHz 0805	6711	4822 130 11397	BAS316	6PB1	4822 130 11397	BAS316
5L16	4822 157 11716	Bead 30Ω at 100MHz	6712	4822 130 11397	BAS316	6PB2	4822 130 11397	BAS316
5L17	4822 157 11716	Bead 30Ω at 100MHz	6713	4822 130 11397	BAS316	6PB3	4822 130 11397	BAS316
5L18	4822 157 11716	Bead 30Ω at 100MHz	6714	4822 130 11397	BAS316	6PB4	4822 130 11397	BAS316
5P00	4822 157 11716	Bead 30Ω at 100MHz	6715	4822 130 11397	BAS316	6PB5	4822 130 11397	BAS316
5P01	4822 157 11716	Bead 30Ω at 100MHz	6717	4822 130 11397	BAS316	6PB6	4822 130 11397	BAS316
5P02	3198 018 32770	0.27μH 10% 0805	6718	4822 130 11397	BAS316	6PB7	4822 130 11397	BAS316
5P03	4822 157 11716	Bead 30Ω at 100MHz	6719	9322 128 69685	S1D	6PB8	4822 130 11397	BAS316
5P04	3198 018 56880	6.8μH 10% 0603	6720	4822 130 11397	BAS316	6PB9	4822 130 11397	BAS316
5P06	4822 157 10586	2.2μH 10% 0805	6721	4822 130 11397	BAS316	6T01	4822 130 11397	BAS316
5P07	2422 549 00195	Bead 40.4MHz	6722	4822 130 11397	BAS316	6T02	4822 130 11397	BAS316
5P08	2422 549 44983	Trimmer 78MHz 5CCB	6723	4822 130 11397	BAS316	6T03	4822 130 11397	BAS316
5P09	4822 157 11716	Bead 30Ω at 100MHz	6A00	4822 130 11551	UDZS10B	6T04	4822 130 11397	BAS316
5P10	4822 157 11716	Bead 30Ω at 100MHz	6A01	4822 130 11397	BAS316	6T08	9340 548 71115	PDZ33B
5P51	4822 157 11716	Bead 30Ω at 100MHz	6A02	4822 130 10838	UDZ3.3B	6T10	4822 130 11397	BAS316
5PA0	4822 157 71694	0.82μH 10%	6A02	9322 159 70685	MM3Z9V1	6T11	9340 548 58115	PDZ9.1B
5PA1	3198 018 31290	12μH 10%	6E51	4822 130 11397	BAS316	6U01	4822 130 11397	BAS316
5PA2	4822 157 10977	4.7μH 10%	6E52	4822 130 11397	BAS316	6U03	4822 130 11397	BAS316
5PA3	4822 157 10977	4.7μH 10%	6E53	4822 130 11397	BAS316	6U04	4822 130 11397	BAS316
5PA4	4822 157 71694	0.82μH 10%	6E54	4822 130 11397	BAS316	6U05	9322 129 41685	BZM55-C12
5PA5	3198 018 31290	12μH 10%	6E55	4822 130 11397	BAS316	6U06	9322 203 37685	BZG05C3V9
5PA6	3198 018 31290	12μH 10%	6E56	4822 130 11397	BAS316	6U07	4822 130 11416	PDZ6.8B
5PA7	3198 018 31290	12μH 10%	6I01	4822 130 10328	BAV99W	6U08	4822 130 80622	BAT54
5PA8	3198 018 31290	12μH 10%	6I06	4822 130 10328	BAV99W	6U09	4822 130 80622	BAT54
5PA9	4822 157 11716	Bead 30Ω at 100MHz	6I07	4822 130 10328	BAV99W	6U10	4822 130 11522	UDZ15B
5PB0	4822 157 11716	Bead 30Ω at 100MHz	6I08	4822 130 11423	PLVA2656A	6U11	4822 130 11397	BAS316
5T02	4822 157 71206	Bead 600Ω 100MHz	6I09	4822 130 11423	PLVA2656A	6U12	9340 548 52115	PDZ5.1B
5T03	2422 535 94134	10μH 20% 0805	6I10	4822 130 11397	BAS316	6U13	9340 548 58115	PDZ9.1B
5T04	4822 157 71206	Bead 600Ω 100MHz	6I11	4822 130 11397	BAS316	6U14	4822 130 10328	BAV99W
5T10	2422 536 00779	10μH 20%	6I12	4822 130 11397	BAS316	6U14	4822 130 11397	BAS316
5T11	2422 535 94995	10μF 20% 10145	6I13	4822 130 11397	BAS316	6U15	4822 130 11397	BAS316
5T14	2422 549 44197	Bead 220Ω at 100MHz	6I14	4822 130 10328	BAV99W	6U16	9340 548 52115	PDZ5.1B
5T15	2422 549 44197	Bead 220Ω at 100MHz	6I15	4822 130 10328	BAV99W	6U17	4822 130 11416	PDZ6.8B
5T20	4822 157 71206	Bead 600Ω 100MHz	6I16	4822 130 10328	BAV99W	6V05	9322 085 77685	TLMG3100
5T22	4822 157 71206	Bead 600Ω 100MHz	6I17	4822 130 10328	BAV99W	6Z00	3198 020 55680	BZX34-C5V6
5T25	2422 535 94134	10μH 20% 0805	6I18	4822 130 10328	BAV99W			
5U01	3104 308 20661	Transf. BD13118-02	6I19	4822 130 10328	BAV99W			
5U02	2422 535 94134	10μH 20% 0805	6I20	4822 130 10328	BAV99W			
5U02	2422 536 00779	10μH 20%	6I21	4822 130 10328	BAV99W			
5U03	2422 549 44197	Bead 220Ω at 100MHz	6I22	4822 130 11416	PDZ6.8B			
5U03	4822 157 11716	Bead 30Ω at 100MHz	6I23	4822 130 11416	PDZ6.8B	7001	9352 684 81557	SAAS01H/015
5U04	2422 549 44197	Bead 220Ω at 100MHz	6I24	4822 130 11416	PDZ6.8B	7002	3198 010 42320	BC85B/W
5U04	4822 157 11716	Bead 30Ω at 100MHz	6I25	4822 130 11416	PDZ6.8B	7003	3198 010 42310	BC84B/W
5U05	2422 535 94134	10μH 20% 0805	6I26	4822 130 11416	PDZ6.8B	7004	3198 010 42310	BC84B/W
5U05	2422 536 00779	10μH 20%	6I27	4822 130 11416	PDZ6.8B	7005	9322 172 45668	LF33B/DT
5U06	2422 535 94134	10μH 20% 0805	6I28	4822 130 11416	PDZ6.8B	7006		For SW see item 0601
5U06	2422 536 00779	10μH 20%	6I29	4822 130 11416	PDZ6.8B	7007	9322 157 20668	MSM1V18165F-60J
5U06	2422 536 00779	10μH 20%	6I30	4822 130 11416	PDZ6.8B	7008	3198 010 42310	BC84B/W
5Y00	4822 157 11716	Bead 30Ω at 100MHz	6I31	4822 130 11416	PDZ6.8B	7009	3198 010 42310	BC84B/W
5Y01	4822 157 11716	Bead 30Ω at 100MHz	6I32	4822 130 11416	PDZ6.8B	7010	3198 010 42320	BC85B/W
5Y02	2422 549 44197	Bead 220Ω at 100MHz	6I33	4822 130 11416	PDZ6.8B	7011	9322 130 41668	M24C4-WMN6
5Y03	2422 549 44197	Bead 220Ω at 100MHz	6I33	4822 130 11416	PDZ6.8B	7012	9322 199 93668	M29W400DT-55N6
5Y06	4822 157 11716	Bead 30Ω at 100MHz	6I35	4822 130 11416	PDZ6.8B	7013	3198 010 42310	BC84B/W
5Y07	4822 157 11716	Bead 30Ω at 100MHz	6I36	4822 130 11416	PDZ6.8B	7014	3198 010 42320	BC85B/W
5Y11	4822 157 11716	Bead 30Ω at 100MHz	6I37	4822 130 11416	PDZ6.8B	7017	9340 310 30215	PDT0144ET
5Y12	4822 157 11716	Bead 30Ω at 100MHz	6I38	4822 130 11416	PDZ6.8B	7018	9352 115 40118	74LV245APW
5Y13	4822 157 11716	Bead 30Ω at 100MHz	6I39	4822 130 11416	PDZ6.8B	7019	9352 115 40118	74LV245APW
5Y14	4822 157 11716	Bead 30Ω at 100MHz	6I40	4822 130 11416	PDZ6.8B	7020	3198 010 42310	BC84B/W
5Y15	4822 157 11716	Bead 30Ω at 100MHz	6I41	4822 130 11416	PDZ6.8B	7021	9340 425 30115	BC84B/PN
5Y16	4822 157 11716	Bead 30Ω at 100MHz	6I42	4822 130 11416	PDZ6.8B	7022	3198 010 42320	BC85B/W
5Y17	4822 157 11716	Bead 30Ω at 100MHz	6I43	4822 130 11416	PDZ6.8B	7022	9340 310 30215	PDT0144ET
5Y18	4822 157 11716	Bead 30Ω at 100MHz	6I44	4822 130 11416	PDZ6.8B	7320	3198 010 42310	BC84B/W
5Y19	2422 549 43769	Bead 30Ω at 100MHz	6I45	4822 130 11416	PDZ6.8B	7322	3198 010 42310	BC84B/W
5Y19	4822 157 11716	Bead 30Ω at 100MHz	6I46	4822 130 11416	PDZ6.8B	7323	9352 625 24518	TDA921H/N2
5Y20	4822 157 11716	Bead 30Ω at 100MHz	6I47	4822 130 11416	PDZ6.8B	7402	3198 010 42310	BC84B/W
5Y21	4822 117 10353	150Ω 1% 0.1W	6I48	4822 130 11416	PDZ6.8B	7403	3198 010 42310	BC84B/W
5Y21	4822 157 11716	Bead 30Ω at 100MHz	6I49	9322 129 41685	BZM55-C12	7407	3198 010 42320	BC85B/W
5Y22	4822 117 10353	150Ω 1% 0.1W	6I50	4822 130 11416	PDZ6.8B	7410	3198 010 42310	BC84B/W
5Y22	4822 157 11716	Bead 30Ω at 100MHz	6I51	4822 130 11416	PDZ6.8B	7411	3198 010 42310	BC84B/W
5Y23	4822 157 11716	Bead 30Ω at 100MHz	6I52	4822 130 11416	PDZ6.8B	7414	3198 010 42310	BC84B/W
5Z01	2422 549 45325	Bead 67Ω at 100MHz	6I53	4822 130 11416	PDZ6.8B	7415	3198 010 42310	BC84B/W
5Z02	2422 549 45325	Bead 67Ω at 100MHz	6I54	4822 130 11416	PDZ6.8B	7701	9322 170 14668	LF15B/DT
5Z03	2422 549 45325	Bead 67Ω at 100MHz	6I55	4822 130 11416	PDZ6.8B	7703	3198 010 42310	BC84B/W
5Z04	2422 549 45325	Bead 67Ω at 100MHz	6I56	4822 130 11416	PDZ6.8B	7705	3198 010 42310	BC84B/W
5Z05	2422 549 45325	Bead 67Ω at 100MHz	6I61	4822 130 11416	PDZ6.8B	7706	3198 010 70400	74LV1G14GW
5Z06	2422 549 44197	Bead 220Ω at 100MHz	6I63	4822 130 11397	BAS316	7707	3198 010 42310	BC84B/W
5Z07	2422 549 44197	Bead 220Ω at 100MHz	6I64	4822 130 11397	BAS316	7708	3198 010 42310	BC84B/W
5Z08	2422 549 44197	Bead 220Ω at 100MHz	6I65	4822 130 11397	BAS316	7709	3198 010 42310	BC84B/W
5Z09	2422 549 44197	Bead 220Ω at 100MHz	6I66	4822 130 11397	BAS316	7710	3198 010 42310	BC84B/W
			6I68	4822 130 11416	PDZ6.8B	7711	2422 486 80938	Socke3 2p f PLCC
			6I69	4822 130 11416	PDZ6.8B	7711		For SW see item 0605
			6I70	4822 130 11416	PDZ6.8B	7712	9351 870 00118	74HC73PW
			6I75	4822 130 11416	PDZ6.8B	7713	9352 688 09557	SA447BH/V204
			6I77	4822 130 11416	PDZ6.8B	7714	9965 000 02179	MS8104160-25TB
6001	4822 130 80622	BAT54						



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	SI907BCQ52
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	PDTIC144ET
7I49	9340 310 30215	PDTIC144ET
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	PDTIC144ET
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. CINC H 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

—D—

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

—D—

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

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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
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

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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] (FTL2.1E 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

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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

-WW-

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

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5020	2422 549 43062	Bead 600Ω at 100MHz
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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

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

-WW-

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

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6020	9322 127 27676	TSAL5300
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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

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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	3105	4822 051 30221	220Ω 5% 0.062W	3721	4822 051 30472	4.7Ω 5% 0.062W
2149	2022 552 05679	1μF 10% 16V 0805	3106	4822 051 30391	390Ω 5% 0.062W	3722	4822 051 30683	68kΩ 5% 0.062W
2150	4822 124 12379	220μF 25V	3107	4822 051 30391	390Ω 5% 0.062W	3723	4822 051 30563	56kΩ 5% 0.062W
2152	4822 121 70162	10nF 5% 400V	3108	4822 053 10478	4.7Ω 5% 1W	3724	4822 117 11503	220Ω 1% 0.1W
2153	5322 126 11582	6.8nF 10% 63V	3109	4822 051 30391	390Ω 5% 0.062W	3725	4822 051 30223	22kΩ 5% 0.062W
2154	3198 017 31530	15nF 20% 50V 0603	3110	4822 051 30391	390Ω 5% 0.062W	3726	4822 117 11503	220Ω 1% 0.1W
2160	4822 124 21913	1μF 20% 63V	3111	4822 053 10152	1.5kΩ 5% 1W	3727	4822 117 11503	220Ω 1% 0.1W
2163	4822 124 40207	100μF 20% 25V	3112	4822 051 30391	390Ω 5% 0.062W	3729	4822 117 10837	100kΩ 1% 0.1W
2506	2252 811 95017	470pF 10% 250V	3113	9965 000 23109	22Ω 5% 0603	3730	4822 117 11503	220Ω 1% 0.1W
2507	4822 126 13682	100pF 5% 1kV	3114	4822 051 30221	220Ω 5% 0.062W	3741	4822 051 30103	10kΩ 5% 0.062W
2508	4822 124 40764	22μF 100V	3117	4822 051 30479	47Ω 5% 0.062W	3743	4822 117 11449	2.2kΩ 5% 0.1W 0805
2510	2020 021 91668	2200μF 20% 10V	3121	4822 051 30109	10Ω 5% 0.062W	3744	4822 117 13632	100kΩ 1% 0603 0.62W
2511	4822 124 12379	220μF 25V	3122	4822 051 30471	47Ω 5% 0.062W	3746	4822 051 30223	22kΩ 5% 0.062W
2512	4822 124 12379	220μF 25V	3123	4822 051 30109	10Ω 5% 0.062W	3747	4822 117 12925	47kΩ 1% 0.063W 0603
2513	4822 126 10206	2.2nF 10% 500V	3124	4822 051 30339	33kΩ 5% 0.062W	3748	4822 051 30471	47Ω 5% 0.062W
2515	4822 126 14238	2.2nF 50V 0603	3125	4822 117 12971	15Ω 5% 0603 0.62W	3749	4822 051 30471	47Ω 5% 0.062W
2533	4822 124 40207	100μF 20% 25V	3126	4822 051 30103	10kΩ 5% 0.062W	3750	4822 117 11449	2.2kΩ 5% 0.1W 0805
2534	2020 552 96448	1μF 10% 16V 0805	3127	4822 051 30562	5.6kΩ 5% 0.063W 0603	3751	4822 117 11449	2.2kΩ 5% 0.1W 0805
2535	5322 126 11583	10nF 10% 50V 0603	3128	4822 117 13608	4.7Ω 5% 0603 0.62W	3752	4822 051 30331	330Ω 5% 0.062W
2536	5322 126 11583	10nF 10% 50V 0603	3132	4822 051 30333	33kΩ 5% 0.062W	3753	4822 117 11449	2.2kΩ 5% 0.1W 0805
2537	4822 126 14238	2.2nF 50V 0603	3134	4822 051 30102	1kΩ 5% 0.062W	3754	4822 051 30223	22kΩ 5% 0.062W
2538	5322 126 11583	10nF 10% 50V 0603	3135	4822 051 30331	330Ω 5% 0.062W	3755	4822 051 30471	47Ω 5% 0.062W
2539	2020 552 96448	1μF 10% 16V 0805	3138	4822 051 30105	1MΩ 5% 0.062W	3756	4822 117 11449	2.2kΩ 5% 0.1W 0805
2539	4822 126 14583	470nF 10% 16V 0805	3140	4822 051 30223	22kΩ 5% 0.062W	3757	4822 117 11449	2.2kΩ 5% 0.1W 0805
2540	5322 126 11583	10nF 10% 50V 0603	3141	4822 051 30471	47Ω 5% 0.062W	3758	5322 117 13056	8.2kΩ 1% 0.063W 0603
2544	5322 126 11583	10nF 10% 50V 0603	3142	4822 051 30123	12kΩ 5% 0.1W	3759	4822 051 30332	3.3Ω 5% 0.062W
2702	5322 126 11578	1nF 10% 50V 0603	3145	4822 051 30472	4.7Ω 5% 0.062W	3760	4822 051 30332	3.3Ω 5% 0.062W
2704	5322 126 11578	1nF 10% 50V 0603	3146	4822 051 30479	47Ω 5% 0.062W	3761	4822 051 20109	10Ω 5% 0.1W
2705	2020 552 96684	470nF 10% 25V 0805	3147	4822 051 30223	22kΩ 5% 0.062W	3762	4822 051 30222	2.2kΩ 5% 0.062W
2706	2222 580 15649	100nF 10% 50V 0805	3148	4822 051 30479	47Ω 5% 0.062W	3763	4822 051 30222	2.2kΩ 5% 0.062W
2707	4822 126 14585	100nF 10% 0805 50V	3149	4822 051 30103	10kΩ 5% 0.062W	3764	4822 051 20109	10Ω 5% 0.1W
2708	2020 552 96326	220nF 10% 16V	3150	4822 051 30101	100Ω 5% 0.062W	3765	4822 117 13632	100kΩ 1% 0603 0.62W
2709	4822 126 13881	470pF 5% 50V	3152	4822 051 30102	1kΩ 5% 0.062W	3766	4822 117 13632	100kΩ 1% 0603 0.62W
2710	4822 126 13881	470pF 5% 50V	3153	4822 051 30223	22kΩ 5% 0.062W	3767	4822 117 13632	100kΩ 1% 0603 0.62W
2711	5322 126 11578	1nF 10% 50V 0603	3155	4822 050 21003	10kΩ 1% 0.6W	3768	4822 117 13632	100kΩ 1% 0603 0.62W
2712	2020 552 96683	220nF 10% 50V	3156	4822 051 30102	1kΩ 5% 0.062W	3790	4822 051 30272	2.7kΩ 5% 0.062W
2713	2020 552 96684	470nF 10% 25V 0805	3157	4822 051 30223	22kΩ 5% 0.062W	3791	4822 051 30272	2.7kΩ 5% 0.062W
2714	4822 126 14549	33nF 16V 0603	3158	4822 051 30479	47Ω 5% 0.062W	3792	4822 051 30103	10kΩ 5% 0.062W
2715	5322 126 11578	1nF 10% 50V 0603	3159	4822 051 30479	47Ω 5% 0.062W	3793	4822 051 30103	10kΩ 5% 0.062W
2716	4822 126 14241	330pF 0603 50V	3160	4822 051 30102	1kΩ 5% 0.062W	3794	4822 051 30103	10kΩ 5% 0.062W
2717	5322 121 42498	680nF 5% 63V	3161	4822 051 30123	12kΩ 5% 0.1W	3796	4822 051 30272	2.7kΩ 5% 0.062W
2718	4822 122 33761	22pF 5% 50V	3171	4822 051 30101	100Ω 5% 0.062W	3798	4822 051 30153	15kΩ 5% 0.062W
2719	5322 126 11578	1nF 10% 50V 0603	3172	4822 051 30333	33kΩ 5% 0.062W	3999	4822 051 30102	1kΩ 5% 0.062W
2720	2020 552 96326	220nF 10% 16V	3175	4822 051 30103	10kΩ 5% 0.062W	3999	4822 051 30682	6.8Ω 5% 0.062W
2721	4822 126 13881	470pF 5% 50V	3176	4822 051 30103	10kΩ 5% 0.062W	9020	4822 051 30008	Jumper 0603
2722	4822 126 13881	470pF 5% 50V	3190	4822 050 22702	2.7kΩ 1% 0.6W	9110	4822 051 30008	Jumper 0603
2723	5322 126 11578	1nF 10% 50V 0603	3190	4822 053 10122	1.2kΩ 5% 1W	9717	4822 051 30008	Jumper 0603
2726	4822 126 14549	33nF 16V 0603	3191	4822 050 22702	2.7kΩ 1% 0.6W	9737	4822 051 30008	Jumper 0603
2727	5322 126 11578	1nF 10% 50V 0603	3191	4822 053 10122	1.2kΩ 5% 1W			
2728	4822 126 14241	330pF 0603 50V	3192	4822 050 22702	2.7kΩ 1% 0.6W			
2729	5322 121 42498	680nF 5% 63V	3192	4822 053 10122	1.2kΩ 5% 1W			
2741	4822 122 33761	22pF 5% 50V	3509	4822 053 10222	2.2kΩ 5% 1W	5102	4822 526 10704	Bead 50 Ω at 100MHz
2743	4822 126 12105	33nF 5% 50V 0805	3511	4822 051 30683	68kΩ 5% 0.062W	5103	4822 526 10704	Bead 50 Ω at 100MHz
2753	2020 552 96326	220nF 10% 16V	3512	4822 051 30471	47Ω 5% 0.062W	5104	4822 157 11411	Bead 80Ω at 100MHz
2754	4822 126 14491	2.2μF 10V 0805	3513	4822 051 30333	33kΩ 5% 0.062W	5105	4822 157 11716	Bead 30Ω at 100MHz
2755	5322 126 11578	1nF 10% 50V 0603	3515	4822 117 13632	100kΩ 1% 0603 0.62W	5106	3198 018 31090	10μH 10% 0805
2756	4822 126 13881	470pF 5% 50V	3516	4822 051 30472	4.7Ω 5% 0.062W	5108	4822 526 10704	Bead 50 Ω at 100MHz
2758	5322 121 42498	680nF 5% 63V	3517	4822 051 30223	22kΩ 5% 0.062W	5110	4822 157 71736	10μH 5%
2759	5322 126 10511	1nF 5% 50V	3528	4822 051 30472	4.7Ω 5% 0.062W	5500▲	3104 308 21181	Transf. BS25320-00
2762	2020 552 96326	220nF 10% 16V	3529	4822 051 30101	100Ω 5% 0.062W	5504	2422 536 00776	33μH 10%
2764	4822 126 14491	2.2μF 10V 0805	3530	4822 051 30223	22kΩ 5% 0.062W	5505	4822 157 11411	Bead 80Ω at 100MHz
2766	4822 126 14491	2.2μF 10V 0805	3531	4822 051 30153	15kΩ 5% 0.062W	5506	4822 157 11411	Bead 80Ω at 100MHz
2768	4822 124 40255	100μF 20% 63V	3532	4822 051 30472	4.7Ω 5% 0.062W	5507	2422 536 00433	15μH 10%
2769	4822 124 40255	100μF 20% 63V	3533	4822 051 30152	1.5Ω 5% 0.062W	5508	2422 536 00433	15μH 10%
2777	2020 552 96683	220nF 10% 50V	3534	4822 051 30103	10kΩ 5% 0.062W	5701	2422 536 00385	68μH 10%
2778	4822 124 40769	4.7μF 20% 100V	3538	4822 051 30101	100Ω 5% 0.062W	5701	2422 536 00685	68μH 10%
2779	2020 552 96683	220nF 10% 50V	3539	4822 051 30471	47Ω 5% 0.062W	5702	2422 536 00385	68μH 10%
2780	2020 552 96683	220nF 10% 50V	3540	4822 051 30222	2.2kΩ 5% 0.062W	5702	2422 536 00685	68μH 10%
2781	2020 552 96683	220nF 10% 50V	3541	4822 051 30222	2.2kΩ 5% 0.062W	5703	4822 157 11716	Bead 30Ω at 100MHz
2782	2020 552 96683	220nF 10% 50V	3542	4822 051 30103	10kΩ 5% 0.062W	5704	4822 157 11411	Bead 80Ω at 100MHz
2783	4822 124 41751	47μF 20% 50V	3544	4822 051 30221	220Ω 5% 0.062W	5707	4822 157 11411	Bead 80Ω at 100MHz
2784	2020 552 96683	220nF 10% 50V	3560	4822 051 30682	6.8Ω 5% 0.062W	5708	4822 157 11411	Bead 80Ω at 100MHz
2786	2238 586 15641	22nF 10% 50V 0603	3561	4822 051 30392	3.9Ω 5% 0.063W 0603	5711	4822 157 11411	Bead 80Ω at 100MHz
2788	4822 124 40255	100μF 20% 63V	3562	4822 117 13608	4.7Ω 5% 0603 0.62W	5712	4822 157 11411	Bead 80Ω at 100MHz
2789	2020 552 96683	220nF 10% 50V	3701	4822 051 30103	10kΩ 5% 0.062W	5720	2422 536 00385	68μH 10%
2790	4822 124 40255	100μF 20% 63V	3702	4822 051 30103	10kΩ 5% 0.062W	5720	2422 536 00685	68μH 10%
2791	2022 552 05679	1μF 10% 16V 0805	3702	4822 051 30682	6.8Ω 5% 0.062W	5722	4822 157 11411	Bead 80Ω at 100MHz
2792	2022 552 05679	1μF 10% 16V 0805	3703	4822 051 30333	33kΩ 5% 0.062W	5723	4822 157 11411	Bead 80Ω at 100MHz
2793	4822 124 40255	100μF 20% 63V	3704	4822 117 10833	10kΩ 1% 0.1W			
2794	2022 552 05679	1μF 10% 16V 0805	3705	4822 051 20828	8.2Ω 5% 0.1W			
2795	2020 552 96683	220nF 10% 50V	3706	4822 051 30472	4.7Ω 5% 0.062W			
2796	2022 552 05679	1μF 10% 16V 0805	3707	4822 051 30683	68kΩ 5% 0.062W			
2797	4822 126 14076	220nF +80/-20% 25V	3708	4822 051 30563	56kΩ 5% 0.062W	6103	4822 130 10871	SBYV27-200
2798	4822 126 14076	220nF +80/-20% 25V	3709	4822 117 11503	220Ω 1% 0.1W	6104	9340 548 69115	PDZ27B
2799	4822 124 40255	100μF 20% 63V	3710	4822 051 30223	22kΩ 5% 0.062W	6105	4822 130 11522	UDZ15B
			3711	4822 050 21204	120kΩ 1% 0.6W	6106	9340 548 66115	PDZ20B
			3712	4822 051 30103	10kΩ 5% 0.062W	6108	4822 130 80622	BAT54

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

—II—

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% 0.063 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% 0.063 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% 0.063 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% 0.063 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% 0.063 0.62W
3046	4822 117 12971	15Ω 5% 0.063 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% 0.063 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

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

—DI—

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-315



7001	9322 108 21682	MC3406P
7002	9322 149 04682	TCET1102
7004	3198 010 42310	BC847E-W
7005	9322 192 18687	STP15N K50ZFP
7006	9322 205 26687	FQPF18N50V2
7007	3198 010 42320	BC857E-W
7008	3198 010 42320	BC857E-W
7009	3198 010 42320	BC857E-W
7010	9322 125 09668	TL431A-D
7017	3198 010 42320	BC857E-W
7018	3198 010 42310	BC847E-W
7030	3198 010 42310	BC847E-W
7031	3198 010 42310	BC847E-W

0605	3104 317 47621	SW (see Prod. Survey)	2356	2238 586 59812	100nF 20% 50V 0603	2761	2238 787 15641	22nF 5% 16V 0402
1000▲	2422 086 11092	Fuse 500mA 50V F SMD	2357	2238 586 59812	100nF 20% 50V 0603	2762	2238 787 15641	22nF 5% 16V 0402
1001	2422 543 89022	Xtal 6MHz 20p	2358	3198 035 03320	3.3nF 5% 50V 0402	2763	2238 787 15641	22nF 5% 16V 0402
1026	3104 328 29591	SCART 3 assy	2359	3198 034 01590	15pF 1% 50V 0402	2764	2238 787 15641	22nF 5% 16V 0402
1305	2422 543 01184	Xtal 4.433619MHz 20p	2360	3198 034 01280	1.2pF 1% 50V 0402	2768	2238 787 15641	22nF 5% 16V 0402
1308	2422 543 01183	Xtal 3.579545MHz 16p	2361	3198 034 01280	1.2pF 1% 50V 0402	2769	2020 552 96618	1nF 10% 50V 0402
1404	2422 127 00543	Switch 1p 2pos	2362	3198 034 01290	12pF 1% 50V 0402	2770	2020 552 96618	1nF 10% 50V 0402
1407	2422 549 44324	Filt. 5.5/5.74MHz	2365	2238 586 59812	100nF 20% 50V 0603	2771	2020 552 96618	1nF 10% 50V 0402
1408	2422 549 44372	SAW 38.9MHz K3953L	2366	2238 586 59812	100nF 20% 50V 0603	2772	2238 787 15641	22nF 5% 16V 0402
1409	2422 549 44369	SAW 38.9MHz K9656L	2367	2238 586 59812	100nF 20% 50V 0603	2773	2020 552 96618	1nF 10% 50V 0402
1702	2422 540 98456	Resonator 12MHz	2368	2238 586 59812	100nF 20% 50V 0603	2777	2020 552 96618	1nF 10% 50V 0402
1A00	2422 543 89019	Xtal 18.432MHz 12p	2369	2238 586 59812	100nF 20% 50V 0603	2778	2020 552 96618	1nF 10% 50V 0402
1D01	2422 033 00515	Socket DVI-I 29p f	2370	2238 586 59812	100nF 20% 50V 0603	2780	2020 552 96618	1nF 10% 50V 0402
1E02	2422 025 17274	Connector 10p m	2371	3198 035 14720	4.7nF 5% 25V 0402	2781	2020 552 96618	1nF 10% 50V 0402
1E04	2422 025 18738	Connector 3P m	2372	2022 552 05679	1μF 10% 16V 0805	2782	2020 552 96618	1nF 10% 50V 0402
1G50	2422 025 18427	Connector 31p f	2373	2238 586 59812	100nF 20% 50V 0603	2784	2238 787 15641	22nF 5% 16V 0402
1I01	2422 025 18133	Socket SCART	2374	2022 552 05679	1μF 10% 16V 0805	2785	2238 787 15641	22nF 5% 16V 0402
1I04	2422 025 18133	Socket SCART	2375	2238 787 15641	22nF 5% 16V 0402	2788	2238 586 59812	100nF 20% 50V 0603
1I05	2422 026 05539	Socket Cinch 2p f WhRd	2376	2238 586 59812	100nF 20% 50V 0603	2789	2238 586 59812	100nF 20% 50V 0603
1I06	2422 026 05527	Socket Cinch 2p f	2377	2020 021 91557	100μF 20% 16V	2790	2238 586 59812	100nF 20% 50V 0603
1I07	2422 026 05054	Socket Cinch 2p f WhRd	2378	2238 586 59812	100nF 20% 50V 0603	2791	2238 586 59812	100nF 20% 50V 0603
1I53	2422 549 45325	Bead 67Ω at 100MHz	2384	2238 586 59812	100nF 20% 50V 0603	2792	2238 586 59812	100nF 20% 50V 0603
1I56	2422 549 45325	Bead 67Ω at 100MHz	2387	2022 552 05679	1μF 10% 16V 0805	2793	2238 586 59812	100nF 20% 50V 0603
1I57	2422 549 45325	Bead 67Ω at 100MHz	2391	2238 586 59812	100nF 20% 50V 0603	2794	2020 552 96618	1nF 10% 50V 0402
1I59	2422 549 45325	Bead 67Ω at 100MHz	2392	2022 552 05679	1μF 10% 16V 0805	2795	2020 552 96618	1nF 10% 50V 0402
1I79▲	2422 086 00623	Fuse 3A T 125V	2394	2022 552 05679	1μF 10% 16V 0805	2796	2020 552 96618	1nF 10% 50V 0402
1M01	2422 025 10768	Connector 3p m	2403	2238 586 59812	100nF 20% 50V 0603	2797	2020 552 96618	1nF 10% 50V 0402
1M03	2422 025 10771	Connector 10p m	2404	2022 552 05679	1μF 10% 16V 0805	2798	2020 552 96618	1nF 10% 50V 0402
1M07	4822 267 10637	Connector 5p	2405	3198 035 14720	4.7nF 5% 25V 0402	2799	2020 552 96618	1nF 10% 50V 0402
1M15	4822 267 10748	Connector 3p	2406	2238 869 15221	220pF 1% 50V 0402	2800	2238 586 59812	100nF 20% 50V 0603
1M17	2422 025 17765	Connector 7p m	2407	4822 126 14524	68pF 5% 50V 0402	2802	2238 586 59812	100nF 20% 50V 0603
1M20	2422 025 10772	Connector 12p m	2408	3198 034 03380	3.3pF 1% 50V 0402	2804	2238 586 59812	100nF 20% 50V 0603
1M36	2422 025 10655	Connector 11p m	2409	2022 552 05679	1μF 10% 16V 0805	2805	2020 552 96618	1nF 10% 50V 0402
1M46	2422 025 10655	Connector 11p m	2410	2020 021 91557	100μF 20% 16V	2806	2238 586 59812	100nF 20% 50V 0603
1M49	2422 025 10768	Connector 3p m	2411	2238 586 59812	100nF 20% 50V 0603	2807	2238 586 59812	100nF 20% 50V 0603
1M52	2422 025 10769	Connector 9p m	2412	3198 035 14720	4.7nF 5% 25V 0402	2808	2020 552 96618	1nF 10% 50V 0402
1T01	3139 147 19801	Tuner UV1318S/A IH -3	2414	2020 021 91557	100μF 20% 16V	2809	2020 552 96618	1nF 10% 50V 0402
1U01▲	2422 086 11112	Fuse 1A T 125V	2415	2238 586 59812	100nF 20% 50V 0603	2810	2238 586 59812	100nF 20% 50V 0603
8220	3104 311 08631	Cable 12P/480/12P	2416	2022 552 05679	1μF 10% 16V 0805	2811	2238 586 59812	100nF 20% 50V 0603
8303	3104 311 06511	Cable 10P/280/10p	2417	4822 126 14583	470nF 10% 16V 0805	2812	3198 031 02290	22Ω 5% 0.1W 0402
8307	3104 311 05691	Cable 5P/100/5p	2418	3198 034 05680	5.6pF 1% 50V 0402	2813	2238 586 59812	100nF 20% 50V 0603
8308	3104 311 06951	Cable 2P3/180/2P	2425	2020 021 91557	100μF 20% 16V	2817	2238 586 59812	100nF 20% 50V 0603
8317	3104 311 07871	Cable 7P/180/7P	2432	2238 586 59812	100nF 20% 50V 0603	2819	2238 586 59812	100nF 20% 50V 0603
8336	3104 311 07451	Cable 11P/220/11P	2433	2238 586 59812	100nF 20% 50V 0603	2821	2238 787 15641	22nF 5% 16V 0402
8337	3104 311 07451	Cable 11P/220/11P	2434	2238 586 59812	100nF 20% 50V 0603	2822	2238 787 15641	22nF 5% 16V 0402
8346	3104 311 06991	Cable 11P/280/11P	2435	2020 552 96618	1nF 10% 50V 0402	2823	2238 586 59812	100nF 20% 50V 0603
8352	3104 311 07381	Cable 9P/220/9P	2436	2022 552 05679	1μF 10% 16V 0805	2824	2238 586 59812	100nF 20% 50V 0603
			2707	3198 034 02790	47pF 1% 50V 0402	2825	2238 586 59812	100nF 20% 50V 0603
			2709	2238 586 59812	100nF 20% 50V 0603	2826	2238 586 59812	100nF 20% 50V 0603
			2710	2238 586 59812	100nF 20% 50V 0603	2827	2238 586 59812	100nF 20% 50V 0603
			2711	2238 586 59812	100nF 20% 50V 0603	2829	2020 021 91557	100μF 20% 16V
			2712	2238 586 59812	100nF 20% 50V 0603	2830	2238 586 59812	100nF 20% 50V 0603
			2716	2238 586 59812	100nF 20% 50V 0603	2831	2238 586 59812	100nF 20% 50V 0603
			2717	2238 586 59812	100nF 20% 50V 0603	2832	2238 586 59812	100nF 20% 50V 0603
			2718	3198 034 01590	15pF 1% 50V 0402	2833	2238 586 59812	100nF 20% 50V 0603
			2719	3198 034 01590	15pF 1% 50V 0402	2834	2238 586 59812	100nF 20% 50V 0603
			2720	3198 034 01590	15pF 1% 50V 0402	2835	2238 586 59812	100nF 20% 50V 0603
			2721	2238 869 15101	100pF 5% 50V 0402	2836	2238 586 59812	100nF 20% 50V 0603
			2722	2238 869 15101	100pF 5% 50V 0402	2837	2238 869 15101	100pF 5% 50V 0402
			2723	2238 586 59812	100nF 20% 50V 0603	2838	2238 869 15101	100pF 5% 50V 0402
			2725	2238 586 59812	100nF 20% 50V 0603	2844	2238 586 59812	100nF 20% 50V 0603
			2726	2238 586 59812	100nF 20% 50V 0603	2845	2238 586 59812	100nF 20% 50V 0603
			2727	2238 586 59812	100nF 20% 50V 0603	2846	2238 586 59812	100nF 20% 50V 0603
			2728	2020 021 91854	100μF 20% 16V	2848	2238 586 59812	100nF 20% 50V 0603
			2729	2238 586 59812	100nF 20% 50V 0603	2849	2238 586 59812	100nF 20% 50V 0603
			2730	2020 021 91557	100μF 20% 16V	2850	2238 586 59812	100nF 20% 50V 0603
			2731	2238 586 59812	100nF 20% 50V 0603	2851	2238 586 59812	100nF 20% 50V 0603
			2732	2020 552 96618	1nF 10% 50V 0402	2852	2238 586 59812	100nF 20% 50V 0603
			2733	2238 586 59812	100nF 20% 50V 0603	2853	2238 586 59812	100nF 20% 50V 0603
			2734	2238 586 59812	100nF 20% 50V 0603	2854	2238 586 59812	100nF 20% 50V 0603
			2735	2238 586 59812	100nF 20% 50V 0603	2855	2238 586 59812	100nF 20% 50V 0603
			2736	2238 586 59812	100nF 20% 50V 0603	2856	2238 586 59812	100nF 20% 50V 0603
			2738	2238 586 59812	100nF 20% 50V 0603	2857	2238 586 59812	100nF 20% 50V 0603
			2739	2020 021 91557	100μF 20% 16V	2858	2238 586 59812	100nF 20% 50V 0603
			2740	2238 787 15641	22nF 5% 16V 0402	2859	2238 586 59812	100nF 20% 50V 0603
			2741	2238 787 15641	22nF 5% 16V 0402	2860	2238 586 59812	100nF 20% 50V 0603
			2742	2238 787 15641	22nF 5% 16V 0402	2861	2238 586 59812	100nF 20% 50V 0603
			2743	2238 586 59812	100nF 20% 50V 0603	2862	2238 586 59812	100nF 20% 50V 0603
			2744	2238 586 59812	100nF 20% 50V 0603	2863	2238 586 59812	100nF 20% 50V 0603
			2745	2238 586 59812	100nF 20% 50V 0603	2864	2238 586 59812	100nF 20% 50V 0603
			2746	2238 586 59812	100nF 20% 50V 0603	2865	2238 586 59812	100nF 20% 50V 0603
			2747	4822 126 14524	68pF 5% 50V 0402	2866	2238 586 59812	100nF 20% 50V 0603
			2748	2238 586 59812	100nF 20% 50V 0603	2867	2238 586 59812	100nF 20% 50V 0603
			2749	2238 586 59812	100nF 20% 50V 0603	2868	2238 586 59812	100nF 20% 50V 0603
			2750	2020 552 96618	1nF 10% 50V 0402	2869	2238 586 59812	100nF 20% 50V 0603
			2751	2020 552 96618	1nF 10% 50V 0402	2870	2238 586 59812	100nF 20% 50V 0603
			2752	2020 552 96618	1nF 10% 50V 0402	2871	2020 021 91557	100μF 20% 16V
			2753	2020 552 96618	1nF 10% 50V 0402	2872	2238 586 59812	100nF 20% 50V 0603
			2754	2020 552 96618	1nF 10% 50V 0402	2873	2238 586 59812	100nF 20% 50V 0603
			2755	2020 552 96618	1nF 10% 50V 0402	2874	2238 586 59812	100nF 20% 50V 0603
			2756	2020 552 96618	1nF 10% 50V 0402	2875	2238 586 59812	100nF 20% 50V 0603
			2757	2238 787 15641	22nF 5			

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

2L04	2238 586 59812	100nF 20% 50V 0603	2U28	3198 035 26820	6.8nF 10% 16V 0402	3022	3198 031 01230	12kΩ 5% 0402
2L05	2238 586 59812	100nF 20% 50V 0603	2U30	3198 034 01210	120pF 1% 50V 0402	3023	4822 117 13601	22kΩ 5% 0402
2L06	2238 586 59812	100nF 20% 50V 0603	2U31	4822 124 12095	100μF 20% 16V	3024	3198 031 02730	27kΩ 5% 0402
2L07	2238 586 59812	100nF 20% 50V 0603	2U32	3198 035 03320	3.3nF 5% 50V 0402	3025	4822 117 13596	220Ω 5% 0.01W 0402
2L08	2238 586 59812	100nF 20% 50V 0603	2U33	2022 552 05679	1μF 10% 16V 0805	3026	3198 031 04720	4.7kΩ 5% 0402
2L09	2238 586 59812	100nF 20% 50V 0603	2U34	2238 787 15641	22nF 5% 16V 0402	3027	3198 031 04730	47Ω 5% 0402
2L10	2238 586 59812	100nF 20% 50V 0603	2U35	2022 552 05679	1μF 10% 16V 0805	3028	3198 031 04720	4.7kΩ 5% 0402
2L11	2238 586 59812	100nF 20% 50V 0603	2U36	2238 586 59812	100nF 20% 50V 0603	3029	2350 033 10101	4 x 100Ω 5%
2L12	2238 586 59812	100nF 20% 50V 0603	2U37	2020 552 96623	2.2nF 10% 50V 0402	3030	3198 031 04720	4.7kΩ 5% 0402
2L13	2238 586 59812	100nF 20% 50V 0603	2U39	2238 586 59812	100nF 20% 50V 0603	3031	2350 033 10101	4 x 100Ω 5%
2L14	2238 586 59812	100nF 20% 50V 0603	2U40	2020 552 96623	2.2nF 10% 50V 0402	3032	4822 117 13606	10kΩ 5% 0.01W 0402
2L15	2238 586 59812	100nF 20% 50V 0603	2U41	3198 035 26820	6.8nF 10% 16V 0402	3033	4822 117 11297	100kΩ 5% 0.1W
2L16	2238 586 59812	100nF 20% 50V 0603	2U42	3198 017 34730	47nF 16V 0603	3034	2350 033 10101	4 x 100Ω 5%
2L17	2238 586 59812	100nF 20% 50V 0603	2V11	3198 035 04710	470pF 50V 0402	3035	2350 033 10101	4 x 100Ω 5%
2L19	4822 124 23237	22μF 6.3V	2V12	3198 035 04710	470pF 50V 0402	3036	3198 031 04730	47Ω 5% 0402
2L20	2238 586 59812	100nF 20% 50V 0603	2Y00	2238 869 15101	100pF 5% 50V 0402	3037	4822 117 13548	1kΩ 5% 0402
2L21	2238 586 59812	100nF 20% 50V 0603	2Y01	2238 869 15101	100pF 5% 50V 0402	3038	4822 117 13606	10kΩ 5% 0.01W 0402
2L25	2238 586 59812	100nF 20% 50V 0603	2Y02	2238 869 15101	100pF 5% 50V 0402	3039	4822 117 13597	330Ω 5% 0402 0.01W
2L26	3198 017 33330	33nF 20% 16V 0603	2Y03	2238 869 15101	100pF 5% 50V 0402	3046	2350 033 10101	4 x 100Ω 5%
2L27	3198 035 14720	4.7nF 5% 25V 0402	2Y06	2020 552 96618	1nF 10% 50V 0402	3048	2350 033 10101	4 x 100Ω 5%
2L28	3198 034 03990	39pF 1% 50V 0402	2Y07	2238 869 15101	100pF 5% 50V 0402	3049	2350 033 10101	4 x 100Ω 5%
2L29	3198 034 03990	39pF 1% 50V 0402	2Y08	2020 552 96618	1nF 10% 50V 0402	3050	2350 033 10101	4 x 100Ω 5%
2L30	3198 034 03990	39pF 1% 50V 0402	2Y09	2238 869 15101	100pF 5% 50V 0402	3051	2350 033 10101	4 x 100Ω 5%
2L31	3198 017 34730	47nF 16V 0603	2Y10	2238 869 15101	100pF 5% 50V 0402	3052	2350 033 10101	4 x 100Ω 5%
2L32	3198 035 03320	3.3nF 5% 50V 0402	2Y11	2020 552 96618	1nF 10% 50V 0402	3053	4822 117 13606	10kΩ 5% 0.01W 0402
2L33	2238 586 59812	100nF 20% 50V 0603	2Y12	2238 869 15101	100pF 5% 50V 0402	3054	2350 033 10101	4 x 100Ω 5%
2L34	2238 586 59812	100nF 20% 50V 0603	2Y14	2238 869 15101	100pF 5% 50V 0402	3055	2350 033 10101	4 x 100Ω 5%
2L51	4822 124 23237	22μF 6.3V	2Y15	2238 869 15101	100pF 5% 50V 0402	3056	2350 033 10101	4 x 100Ω 5%
2L52	3198 017 34730	47nF 16V 0603	2Y16	2238 869 15101	100pF 5% 50V 0402	3057	2350 033 10101	4 x 100Ω 5%
2L54	3198 017 34730	47nF 16V 0603	2Y17	2238 869 15101	100pF 5% 50V 0402	3061	2350 033 10101	4 x 100Ω 5%
2L56	2020 552 96618	1nF 10% 50V 0402	2Y18	2238 869 15101	100pF 5% 50V 0402	3062	4822 117 13606	10kΩ 5% 0.01W 0402
2L57	3198 017 34730	47nF 16V 0603	2Y19	2238 869 15101	100pF 5% 50V 0402	3064	2350 033 10101	4 x 100Ω 5%
2L58	4822 124 23237	22μF 6.3V	2Y22	2020 552 96618	1nF 10% 50V 0402	3065	3198 031 04720	4.7kΩ 5% 0402
2L60	3198 034 04790	27pF 1% 50V 0402	2Y23	2238 869 15101	100pF 5% 50V 0402	3066	3198 031 04730	47Ω 5% 0402
2P80	4822 124 12095	100μF 20% 16V	2Y25	2238 869 15101	100pF 5% 50V 0402	3067	3198 031 04740	470kΩ 5% 0402
2P81	2238 586 59812	100nF 20% 50V 0603	2Y26	2238 869 15101	100pF 5% 50V 0402	3069	3198 031 01820	1.8kΩ 5% 0.01W 0402
2T01	3198 032 28210	220μF 20% 6.3V	2Y27	2020 552 96618	1nF 10% 50V 0402	3072	2350 033 10101	4 x 100Ω 5%
2T04	2238 586 15641	22nF 10% 50V 0603	2Y28	2020 552 96618	1nF 10% 50V 0402	3073	2350 033 10471	4 x 470Ω 5%
2T05	3198 032 28210	220μF 20% 6.3V	2Y29	2020 552 96618	1nF 10% 50V 0402	3074	2350 033 10471	4 x 470Ω 5%
2T06	2020 552 96628	10nF 10% 16V 0402	2Y30	4822 124 12095	100μF 20% 16V	3075	2020 552 96628	10nF 10% 16V 0402
2T09	3198 017 34730	47nF 16V 0603	2Y31	4822 124 12095	100μF 20% 16V	3076	2350 033 10471	4 x 470Ω 5%
2T12	2238 586 59812	100nF 20% 50V 0603	2Y32	2020 552 96618	1nF 10% 50V 0402	3077	3198 031 04720	4.7kΩ 5% 0402
2T13	2020 552 96628	10nF 10% 16V 0402	2Y33	2020 552 96618	1nF 10% 50V 0402	3078	2350 033 10471	4 x 470Ω 5%
2T15	2022 552 05679	1μF 10% 16V 0805	2Y34	2238 869 15101	100pF 5% 50V 0402	3079	3198 031 01820	1.8kΩ 5% 0.01W 0402
2T21	3198 032 28210	220μF 20% 6.3V	2Y37	2238 869 15101	100pF 5% 50V 0402	3080	4822 117 13606	10kΩ 5% 0.01W 0402
2T30	2222 784 13681	22μF 10% 16V X5R 1812	2Y38	2238 869 15101	100pF 5% 50V 0402	3081	4822 117 13543	470Ω 5% 0402
2T31	2222 784 13681	22μF 10% 16V X5R 1812	2Y39	2238 869 15101	100pF 5% 50V 0402	3082	2350 033 10101	4 x 100Ω 5%
2T32	2238 586 59812	100nF 20% 50V 0603	2Y40	2238 869 15101	100pF 5% 50V 0402	3083	2350 033 10101	4 x 100Ω 5%
2T33	2238 586 59812	100nF 20% 50V 0603	2Y41	2238 869 15101	100pF 5% 50V 0402	3084	4822 117 13606	10kΩ 5% 0.01W 0402
2T34	2020 552 96618	1nF 10% 50V 0402	2Y42	2238 869 15101	100pF 5% 50V 0402	3085	2350 033 10101	4 x 100Ω 5%
2T35	2238 586 59812	100nF 20% 50V 0603	2Y43	2238 869 15101	100pF 5% 50V 0402	3086	2350 033 10101	4 x 100Ω 5%
2T36	2022 552 05679	1μF 10% 16V 0805	2Y49	2238 869 15101	100pF 5% 50V 0402	3087	4822 117 13545	100Ω 1% 0402
2T37	2020 552 96628	10nF 10% 16V 0402	2Y50	2238 869 15101	100pF 5% 50V 0402	3088	3198 031 01820	1.8kΩ 5% 0.01W 0402
2T38	2238 586 59812	100nF 20% 50V 0603	2Y51	2238 869 15101	100pF 5% 50V 0402	3089	4822 117 13545	100Ω 1% 0402
2T40	2238 586 59812	100nF 20% 50V 0603	2Y52	3198 035 71040	100nF 10% 16V 0402	3090	2350 033 10471	4 x 470Ω 5%
2T41	5322 126 11578	1nF 10% 50V 0603	2Y53	2238 869 15101	100pF 5% 50V 0402	3092	3198 031 01820	1.8kΩ 5% 0.01W 0402
2T42	2238 916 15641	22nF 10% 25V 0603	2Z44	4822 126 14519	22pF 5% 50V 0402	3093	4822 117 13606	10kΩ 5% 0.01W 0402
2T43	2222 784 13681	22μF 10% 16V X5R 1812	2Z45	4822 126 14519	22pF 5% 50V 0402	3097	4822 117 13543	470Ω 5% 0402
2T44	2020 552 96628	10nF 10% 16V 0402	2Z46	4822 126 14519	22pF 5% 50V 0402	3099	2350 033 10471	4 x 470Ω 5%
2T45	2020 552 96628	10nF 10% 16V 0402	2Z47	4822 126 14519	22pF 5% 50V 0402	3100	4822 117 13596	220Ω 5% 0.01W 0402
2T46	5322 126 11578	1nF 10% 50V 0603	2Z48	4822 126 14519	22pF 5% 50V 0402	3101	4822 117 13596	220Ω 5% 0.01W 0402
2T47	3198 035 04710	470pF 50V 0402	2Z49	4822 126 14519	22pF 5% 50V 0402	3102	2350 033 10101	4 x 100Ω 5%
2T48	2238 586 59812	100nF 20% 50V 0603	2Z50	4822 126 14519	22pF 5% 50V 0402	3103	4822 117 13543	470Ω 5% 0402
2T49	2020 552 96618	1nF 10% 50V 0402	2Z51	4822 126 14519	22pF 5% 50V 0402	3304	2322 750 63908	3.9Ω 5% Fuse 1206
2T50	2020 552 96628	10nF 10% 16V 0402	2Z52	4822 126 14519	22pF 5% 50V 0402	3370	4822 117 13545	100Ω 1% 0402
2T51	2022 552 05679	1μF 10% 16V 0805	2Z53	4822 126 14519	22pF 5% 50V 0402	3371	4822 117 13546	47Ω 5% 0402
2T52	2022 552 05679	1μF 10% 16V 0805	2Z55	2238 586 59812	100nF 20% 50V 0603	3372	4822 117 13543	470Ω 5% 0402
2T53	3198 035 03320	3.3nF 5% 50V 0402	2Z56	2020 552 96618	1nF 10% 50V 0402	3376	4822 117 13545	100Ω 1% 0402
2T54	2238 586 59812	100nF 20% 50V 0603	2Z63	2238 586 59812	100nF 20% 50V 0603	3377	4822 117 13545	100Ω 1% 0402
2U03	2022 552 05679	1μF 10% 16V 0805	2Z64	2238 586 59812	100nF 20% 50V 0603	3378	3198 031 01530	15kΩ 5% 0.01W 0402
2U04	4822 126 14583	470nF 10% 16V 0805				3380	4822 117 13545	100Ω 1% 0402
2U05	2020 552 96618	1nF 10% 50V 0402				3382	4822 117 13543	470Ω 5% 0402
2U06	2022 552 05635	22μF 10% 16V				3385	4822 117 13543	470Ω 5% 0402
2U07	2238 869 75829	82pF 5% 50V 0402				3393	4822 117 11297	100kΩ 5% 0.1W
2U08	2222 784 13681	22μF 10% 16V X5R 1812	3001	3198 031 04720	4.7kΩ 5% 0402	3400	4822 117 11152	4.7Ω 5%
2U09	2020 552 96618	1nF 10% 50V 0402	3002	3198 031 04720	4.7kΩ 5% 0402	3402	2322 750 63908	3.9Ω 5% Fuse 1206
2U10	2022 552 05635	22μF 10% 16V	3003	4822 117 13525	24kΩ 1% 0.62W 0603	3404	3198 031 05610	560Ω 5% 0.01W 0402
2U11	2020 552 96618	1nF 10% 50V 0402	3005	4822 117 13606	10kΩ 5% 0.01W 0402	3405	4822 117 13548	1kΩ 5% 0402
2U12	2020 552 96628	10nF 10% 16V 0402	3006	4822 117 13543	470Ω 5% 0402	3406	2322 705 70279	27Ω 5% 0402
2U13	2238 780 15654	220nF 10% 16V 0805	3007	2350 033 10471	4 x 470Ω 5%	3408	4822 117 13545	100Ω 1% 0402
2U14	4822 126 14583	470nF 10% 16V 0805	3008	2350 033 10101	4 x 100Ω 5%	3411	3198 031 02720	2.7kΩ 5% 0.01W 0402
2U15	4822 124 12095	100μF 20% 16V	3009	3198 031 01810	180Ω 5% 0402	3412	4822 117 11152	4.7Ω 5%
2U16	3198 035 14720	4.7nF 5% 25V 0402	3010	4822 117 13606	10kΩ 5% 0.01W 0402	3413	3198 031 02710	270Ω 5% 0.1W 0402

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

3I50	4822 051 30271	270Ω 5% 0.062W	3I17	4822 117 13601	22kΩ 5% 0.0402	3T25	3198 031 06820	6.8kΩ 5% 0.01W 0.0402
3I51	4822 051 30101	100Ω 5% 0.062W	3I19	4822 117 13548	1kΩ 5% 0.0402	3T26	4822 117 13613	2.2Ω 5% 0.0603
3I52	4822 051 30271	270Ω 5% 0.062W	3I18	4822 117 13548	1kΩ 5% 0.0402	3T27	4822 051 30109	10Ω 5% 0.062W
3I53	4822 051 30101	100Ω 5% 0.062W	3I10	4822 117 13548	1kΩ 5% 0.0402	3T28	4822 051 30109	10Ω 5% 0.062W
3I54	4822 051 30101	100Ω 5% 0.062W	3I12	4822 117 13601	22kΩ 5% 0.0402	3T29	4822 117 13606	10kΩ 5% 0.01W 0.0402
3I55	4822 051 30759	75Ω 5% 0.062W	3I13	4822 117 13601	22kΩ 5% 0.0402	3T30	4822 117 13606	10kΩ 5% 0.01W 0.0402
3I56	4822 051 30101	100Ω 5% 0.062W	3I14	4822 117 11152	47Ω 5%	3T31	4822 117 13545	100Ω 1% 0.0402
3I57	4822 051 30759	75Ω 5% 0.062W	3I11	4822 117 13548	1kΩ 5% 0.0402	3T32	4822 117 13548	1kΩ 5% 0.0402
3I58	4822 051 30101	100Ω 5% 0.062W	3I14	4822 117 11748	Fuse 2.2Ω 5% 1206	3T33	5322 117 11726	10Ω 5%
3I59	4822 051 30759	75Ω 5% 0.062W	3I15	4822 117 13601	22kΩ 5% 0.0402	3T51	4822 117 13548	1kΩ 5% 0.0402
3I60	4822 051 30759	75Ω 5% 0.062W	3I16	4822 117 13601	22kΩ 5% 0.0402	3T52	4822 117 13606	10kΩ 5% 0.01W 0.0402
3I61	4822 051 30101	100Ω 5% 0.062W	3I18	3198 031 01090	10Ω 5% 0.01W 0.0402	3T53	3198 031 04740	470kΩ 5% 0.0402
3I62	4822 051 30101	100Ω 5% 0.062W	3I05	4822 117 13606	10kΩ 5% 0.01W 0.0402	3T54	4822 117 13606	10kΩ 5% 0.01W 0.0402
3I63	4822 051 30392	3.9Ω 5% 0.063W 0603	3I06	4822 117 13606	10kΩ 5% 0.01W 0.0402	3T55	4822 117 13606	10kΩ 5% 0.01W 0.0402
3I64	3198 031 08220	8.2kΩ 5% 0.5W	3I10	3198 031 08220	8.2kΩ 5% 0.5W	3T56	4822 117 13606	10kΩ 5% 0.01W 0.0402
3I65	4822 051 30101	100Ω 5% 0.062W	3I11	4822 117 13602	2.2kΩ 5% 0.01W 0.0402	3T57	4822 051 30101	100Ω 5% 0.062W
3I66	4822 051 30759	75Ω 5% 0.062W	3I12	4822 117 13596	220Ω 5% 0.01W 0.0402	3T58	3198 031 04730	47Ω 5% 0.0402
3I67	4822 051 30759	75Ω 5% 0.062W	3I13	4822 051 30759	75Ω 5% 0.062W	3T59	4822 117 13606	10kΩ 5% 0.01W 0.0402
3I68	4822 051 30101	100Ω 5% 0.062W	3I14	3198 031 02710	270Ω 5% 0.1W 0.0402	3T60	4822 117 13608	4.7Ω 5% 0.0603 0.62W
3I69	4822 051 30271	270Ω 5% 0.062W	3I15	4822 117 11748	Fuse 2.2Ω 5% 1206	3U01	4822 051 30102	1kΩ 5% 0.062W
3I70	4822 051 30101	100Ω 5% 0.062W	3I16	4822 117 13548	1kΩ 5% 0.0402	3U02	4822 117 13548	1kΩ 5% 0.0402
3I71	4822 051 30271	270Ω 5% 0.062W	3I17	3198 031 02720	2.7kΩ 5% 0.01W 0.0402	3U03	4822 117 13603	33kΩ 5% 0.0402
3I72	4822 051 30101	100Ω 5% 0.062W	3I18	4822 117 13548	1kΩ 5% 0.0402	3U04	4822 051 20121	120Ω 5% 0.1W
3I75	4822 051 30101	100Ω 5% 0.062W	3I10	3198 031 01090	10Ω 5% 0.01W 0.0402	3U05	4822 117 13548	1kΩ 5% 0.0402
3I76	4822 051 30101	100Ω 5% 0.062W	3I15	3198 031 04730	47Ω 5% 0.0402	3U06	4822 117 13543	470Ω 5% 0.0402
3I77	4822 051 30759	75Ω 5% 0.062W	3I16	4822 117 13545	100Ω 1% 0.0402	3U07	3198 031 02290	22Ω 5% 0.1W 0.0402
3I78	4822 051 30759	75Ω 5% 0.062W	3I17	4822 117 13545	100Ω 1% 0.0402	3U08	2322 706 71502	1.5kΩ 1% 0.0402
3I79	4822 051 30101	100Ω 5% 0.062W	3I18	3198 031 03320	3.3kΩ 5% 0.0402	3U09	3198 031 05620	5.6kΩ 5% 0.01W 0.0402
3I80	4822 051 30101	100Ω 5% 0.062W	3I19	4822 117 13548	1kΩ 5% 0.0402	3U10	4822 117 13596	220Ω 5% 0.01W 0.0402
3I81	3198 031 08220	8.2kΩ 5% 0.5W	3I11	3198 031 02710	270Ω 5% 0.1W 0.0402	3U11	4822 051 30121	100Ω 5% 0.062W
3I82	4822 051 30392	3.9Ω 5% 0.063W 0603	3I12	3198 031 04720	4.7kΩ 5% 0.0402	3U12	4822 117 13601	22kΩ 5% 0.0402
3I83	4822 051 30101	100Ω 5% 0.062W	3I13	3198 031 04720	4.7kΩ 5% 0.0402	3U13	4822 117 13606	10kΩ 5% 0.01W 0.0402
3I84	4822 051 30759	75Ω 5% 0.062W	3I14	4822 117 13545	100Ω 1% 0.0402	3U14	4822 051 30102	1kΩ 5% 0.062W
3I86	4822 051 30759	75Ω 5% 0.062W	3I15	4822 117 13546	47Ω 5% 0.0402	3U15	2322 706 73302	3.3kΩ 1% 0.0402
3I87	4822 051 30101	100Ω 5% 0.062W	3I16	4822 117 13546	47Ω 5% 0.0402	3U16	3198 031 01210	120Ω 5% 0.01W 0.0402
3I88	4822 051 30759	75Ω 5% 0.062W	3I17	4822 117 13543	470Ω 5% 0.0402	3U17	3198 031 04780	4.7Ω 5% 0.0402
3I89	4822 051 30271	270Ω 5% 0.062W	3I18	3198 031 03320	3.3kΩ 5% 0.0402	3U18	2322 706 71002	1kΩ 1% 0.0402
3I90	4822 051 30101	100Ω 5% 0.062W	3I19	2322 706 71201	120Ω 1% 0.0402	3U19	3198 031 04720	4.7kΩ 5% 0.0402
3I91	4822 051 30271	270Ω 5% 0.062W	3I10	2322 706 71201	120Ω 1% 0.0402	3U20	2322 706 71002	1kΩ 1% 0.0402
3I92	4822 051 30101	100Ω 5% 0.062W	3I11	2322 706 71201	120Ω 1% 0.0402	3U21	3198 031 04730	47Ω 5% 0.0402
3I98	4822 117 13605	Jumper 0402	3I12	4822 117 13545	100Ω 1% 0.0402	3U22	3198 031 02710	270Ω 5% 0.1W 0.0402
3I99	4822 051 30271	270Ω 5% 0.062W	3I15	2322 706 71201	120Ω 1% 0.0402	3U23	3198 031 01090	10Ω 5% 0.01W 0.0402
3IA0	4822 051 30101	100Ω 5% 0.062W	3I10	3198 031 04730	47Ω 5% 0.0402	3U24	4822 117 13601	22kΩ 5% 0.0402
3IA2	4822 051 30101	100Ω 5% 0.062W	3I11	3198 031 04730	47Ω 5% 0.0402	3U25	3198 031 02240	220kΩ 5% 0.1W 0.0402
3IA3	4822 117 13601	22kΩ 5% 0.0402	3I14	3198 031 04730	47Ω 5% 0.0402	3U26	4822 117 13601	22kΩ 5% 0.0402
3IA4	4822 117 13548	1kΩ 5% 0.0402	3I15	2322 706 71201	120Ω 1% 0.0402	3U27	4822 117 13601	22kΩ 5% 0.0402
3IA5	4822 117 13548	1kΩ 5% 0.0402	3I16	2322 706 71201	120Ω 1% 0.0402	3U28	3198 031 04730	47Ω 5% 0.0402
3IA6	4822 117 13548	1kΩ 5% 0.0402	3I17	4822 117 13548	1kΩ 5% 0.0402	3U29	4822 051 30109	10Ω 5% 0.062W
3IA7	4822 117 13548	1kΩ 5% 0.0402	3I18	4822 117 13548	1kΩ 5% 0.0402	3U30	4822 051 20121	120Ω 5% 0.1W
3IA8	4822 117 13548	1kΩ 5% 0.0402	3I19	4822 117 13597	330Ω 5% 0.0402 0.01W	3U31	4822 051 20121	120Ω 5% 0.1W
3IB2	4822 117 13545	100Ω 1% 0.0402	3IU0	4822 117 11748	Fuse 2.2Ω 5% 1206	3U32	3198 031 01830	18kΩ 5% 0.01W 0.0402
3IB4	4822 117 13601	22kΩ 5% 0.0402	3IV0	3198 031 08220	8.2kΩ 5% 0.5W	3U33	4822 117 13606	10kΩ 5% 0.01W 0.0402
3IB5	4822 117 13601	22kΩ 5% 0.0402	3IV1	4822 117 13548	1kΩ 5% 0.0402	3U34	3198 031 04740	470kΩ 5% 0.0402
3IC1	4822 117 13574	1.5Ω 5% 1206	3IV2	4822 117 13543	470Ω 5% 0.0402	3U35	4822 117 13606	10kΩ 5% 0.01W 0.0402
3IC2	4822 117 13601	22kΩ 5% 0.0402	3IV3	4822 117 13548	1kΩ 5% 0.0402	3U36	4822 117 13602	2.2kΩ 5% 0.01W 0.0402
3IC3	4822 117 13601	22kΩ 5% 0.0402	3IW4	3198 031 06820	6.8kΩ 5% 0.01W 0.0402	3U37	4822 117 13601	22kΩ 5% 0.0402
3IC4	4822 117 13545	100Ω 1% 0.0402	3IW5	3198 031 02720	2.7kΩ 5% 0.01W 0.0402	3U38	4822 117 13602	2.2kΩ 5% 0.01W 0.0402
3IC6	4822 117 13545	100Ω 1% 0.0402	3IY1	4822 117 13601	22kΩ 5% 0.0402	3U39	4822 117 13601	22kΩ 5% 0.0402
3IC8	3198 031 05610	560Ω 5% 0.01W 0.0402	3IY2	3198 031 01540	150kΩ 5% 0.0402	3U40	3198 031 01540	150kΩ 5% 0.0402
3IC9	4822 117 13601	22kΩ 5% 0.0402	3IY3	4822 117 11297	100kΩ 5% 0.1W	3U41	4822 117 13548	1kΩ 5% 0.0402
3ID0	3198 031 04720	4.7kΩ 5% 0.0402	3IY4	4822 117 11297	100kΩ 5% 0.1W	3U42	4822 117 13606	10kΩ 5% 0.01W 0.0402
3ID1	3198 031 01540	150kΩ 5% 0.0402	3L03	4822 117 13545	100Ω 1% 0.0402	3U43	4822 117 13601	22kΩ 5% 0.0402
3ID5	3198 031 01090	10Ω 5% 0.01W 0.0402	3L04	4822 117 13545	100Ω 1% 0.0402	3U44	3198 031 01050	1MΩ 5% 0.0402
3ID7	4822 117 11297	100kΩ 5% 0.1W	3L05	4822 117 13545	100Ω 1% 0.0402	3U45	3198 031 01050	1MΩ 5% 0.0402
3ID8	4822 117 11297	100kΩ 5% 0.1W	3L06	4822 117 13545	100Ω 1% 0.0402	3U46	2322 706 74703	47kΩ 1% 0.0402
3ID9	3198 031 05610	560Ω 5% 0.01W 0.0402	3L08	3198 031 02720	2.7kΩ 5% 0.01W 0.0402	3U51	9965 000 23109	22Ω 5% 0.0603
3IE2	4822 117 13545	100Ω 1% 0.0402	3L11	4822 117 13545	100Ω 1% 0.0402	3U52	4822 051 30102	1kΩ 5% 0.062W
3IE3	4822 117 13545	100Ω 1% 0.0402	3L12	4822 117 13543	470Ω 5% 0.0402	3U53	3198 031 01830	18kΩ 5% 0.01W 0.0402
3IE7	3198 031 01090	10Ω 5% 0.01W 0.0402	3L28	4822 117 13543	470Ω 5% 0.0402	3U54	4822 117 13545	100Ω 1% 0.0402
3IE9	4822 117 13601	22kΩ 5% 0.0402	3L29	3198 031 01510	150Ω 5% 0.01W 0.0402	3U55	4822 051 30102	1kΩ 5% 0.062W
3IF0	4822 117 13545	100Ω 1% 0.0402	3L30	3198 031 01510	150Ω 5% 0.01W 0.0402	3U56	3198 031 04720	4.7kΩ 5% 0.0402
3IF5	4822 117 13601	22kΩ 5% 0.0402	3L31	3198 031 01510	150Ω 5% 0.01W 0.0402	3U57	4822 117 13606	10kΩ 5% 0.01W 0.0402
3IF6	4822 051 30101	100Ω 5% 0.062W	3L32	4822 117 13543	470Ω 5% 0.0402	3U60	4822 117 13548	1kΩ 5% 0.0402
3IF7	4822 051 30101	100Ω 5% 0.062W	3L33	4822 117 13543	470Ω 5% 0.0402	3U61	4822 117 13606	10kΩ 5% 0.01W 0.0402
3IG0	3198 031 05610	560Ω 5% 0.01W 0.0402	3P65	4822 117 13545	100Ω 1% 0.0402	3U62	4822 117 13548	1kΩ 5% 0.0402
3IG1	3198 031 01090	10Ω 5% 0.01W 0.0402	3P66	4822 117 13545	100Ω 1% 0.0402	3U63	4822 117 13602	2.2kΩ 5% 0.01W 0.0402
3IG3	3198 031 05610	560Ω 5% 0.01W 0.0402	3P67	3198 031 04720	4.7kΩ 5% 0.0402	3U64	4822 117 13548	1kΩ 5% 0.0402
3IG4	3198 031 01090	10Ω 5% 0.01W 0.0402	3P69	3198 031 04720	4.7kΩ 5% 0.0402	3U65	4822 117 13548	1kΩ 5% 0.0402
3IG6	3198 031 05610	560Ω 5% 0.01W 0.0402	3P70	3198 031 04720	4.7kΩ 5% 0.0402	3U66	4822 117 13606	10kΩ 5% 0.01W 0.0402
3IG7	3198 031 01090	10Ω 5% 0.01W 0.0402	3P72	3198 031 04720	4.7kΩ 5% 0.0402	3U67	4822 117 13545	100Ω 1% 0.0402
3IH1	3198 031 04730	47Ω 5% 0.0402	3T10	4822 117 13606	10kΩ 5% 0.01W 0.0402	3U68	4822 117 13606	10kΩ 5% 0.01W 0.0402
3IH7	3198 031 05610	560Ω 5% 0.01W 0.0402	3T11	4822 117 13606	10kΩ 5% 0.01W 0.0402	3U69	4822 117 13548	1kΩ 5% 0.0402
3IH8	319							

3V27	3198 031 01810	180Ω 5% 0402	9722	4822 117 13605	Jumper 0402	91D9	4822 117 13605	Jumper 0402
3V28	3198 031 01810	180Ω 5% 0402	9723	4822 117 13605	Jumper 0402	9P69	4822 117 13605	Jumper 0402
3V29	3198 031 01810	180Ω 5% 0402	9727	4822 117 13605	Jumper 0402	9P70	4822 117 13605	Jumper 0402
3V30	3198 031 01810	180Ω 5% 0402	9728	4822 117 13605	Jumper 0402	9P71	4822 117 13605	Jumper 0402
3V31	3198 031 01810	180Ω 5% 0402	9730	4822 117 13605	Jumper 0402	9T01	4822 117 13601	22kΩ 5% 0402
3V32	3198 031 01810	180Ω 5% 0402	9732	4822 117 13605	Jumper 0402	9T04	4822 117 13605	Jumper 0402
3V33	3198 031 01810	180Ω 5% 0402	9751	4822 117 13605	Jumper 0402	9T07	4822 117 13605	Jumper 0402
3V34	3198 031 01810	180Ω 5% 0402	9752	4822 117 13605	Jumper 0402	9T08	4822 117 13605	Jumper 0402
3V35	4822 117 13545	100Ω 1% 0402	9753	4822 117 13605	Jumper 0402	9T11	4822 117 13605	Jumper 0402
3V36	4822 117 13545	100Ω 1% 0402	9754	4822 117 13605	Jumper 0402	9T12	4822 117 13605	Jumper 0402
3V37	4822 117 13545	100Ω 1% 0402	9755	4822 117 13605	Jumper 0402	9T14	4822 117 13605	Jumper 0402
3V38	4822 117 13545	100Ω 1% 0402	9756	4822 117 13605	Jumper 0402	9T50	4822 117 13605	Jumper 0402
3V39	3198 031 04720	4.7kΩ 5% 0402	9757	4822 117 13605	Jumper 0402	9Y00	3198 031 01090	10Ω 5% 0.01W 0402
3V40	4822 117 13545	100Ω 1% 0402	9758	4822 117 13605	Jumper 0402	9Y01	4822 117 13605	Jumper 0402
3V50	4822 117 13606	10kΩ 5% 0.01W 0402	9760	4822 117 13605	Jumper 0402	9Y03	4822 117 13605	Jumper 0402
3V51	4822 117 13606	10kΩ 5% 0.01W 0402	9761	4822 117 13605	Jumper 0402	9Y05	4822 117 13605	Jumper 0402
3V52	4822 117 13606	10kΩ 5% 0.01W 0402	9762	4822 117 13605	Jumper 0402	9Y06	4822 117 13605	Jumper 0402
3V53	4822 117 13606	10kΩ 5% 0.01W 0402	9763	4822 117 13605	Jumper 0402	9Y12	4822 117 13605	Jumper 0402
3V54	4822 117 13606	10kΩ 5% 0.01W 0402	9765	4822 117 13605	Jumper 0402	9Y13	4822 117 13605	Jumper 0402
3V55	4822 117 13606	10kΩ 5% 0.01W 0402	9766	4822 117 13605	Jumper 0402	9Y16	4822 117 13605	Jumper 0402
3V56	4822 117 13545	100Ω 1% 0402	9772	4822 117 13605	Jumper 0402	9Y99	4822 320 12423	Speaker cable
3Y00	4822 117 13545	100Ω 1% 0402	9773	4822 117 13605	Jumper 0402			
3Y02	4822 117 13545	100Ω 1% 0402	9774	4822 117 13605	Jumper 0402			
3Y04	4822 117 13602	2.2kΩ 5% 0.01W 0402	9775	4822 117 13605	Jumper 0402			
3Y05	4822 117 13545	100Ω 1% 0402	9800	4822 117 13605	Jumper 0402			
3Y06	4822 117 13543	470Ω 5% 0402	9801	4822 117 13605	Jumper 0402	5003	4822 157 11716	Bead 30Ω at 100MHz
3Y09	4822 117 13545	100Ω 1% 0402	9802	4822 117 13605	Jumper 0402	5401	3198 018 56880	6.8μH 10% 0803
3Y10	4822 117 13545	100Ω 1% 0402	9803	4822 117 13605	Jumper 0402	5403	2422 549 00195	Bead 40.4MHz
3Y11	4822 117 13545	100Ω 1% 0402	9804	4822 117 13605	Jumper 0402	5404	4822 157 11506	Bead 120Ω at 100MHz
3Y12	4822 117 13545	100Ω 1% 0402	9805	4822 117 13605	Jumper 0402	5405	4822 157 11506	Bead 120Ω at 100MHz
3Y13	4822 117 13543	470Ω 5% 0402	9806	4822 117 13605	Jumper 0402	5406	3198 018 52280	2.2μF 10% 1008
3Y14	3198 031 04720	4.7kΩ 5% 0402	9808	4822 117 13605	Jumper 0402	5408	2422 549 00232	Trimmer 78MHz 5JKH
3Y17	4822 117 13545	100Ω 1% 0402	9809	4822 117 13605	Jumper 0402	5411	4822 157 11892	0.22μH 10% 0805
3Y18	4822 117 13545	100Ω 1% 0402	9811	4822 117 13605	Jumper 0402	5416	4822 157 11716	Bead 30Ω at 100MHz
3Y19	4822 117 13545	100Ω 1% 0402	9812	4822 117 13605	Jumper 0402	5703	4822 157 11716	Bead 30Ω at 100MHz
3Y20	3198 031 06890	68Ω 5% 0402	9815	4822 117 13605	Jumper 0402	5705	4822 157 11876	6.8μH 10% 0805
3Y21	3198 031 06890	68Ω 5% 0402	9816	4822 117 13605	Jumper 0402	5713	4822 157 11716	Bead 30Ω at 100MHz
3Y22	3198 031 06890	68Ω 5% 0402	9817	4822 117 13605	Jumper 0402	5714	4822 157 11716	Bead 30Ω at 100MHz
3Y23	3198 031 06890	68Ω 5% 0402	9818	4822 117 13605	Jumper 0402	5719	4822 157 11716	Bead 30Ω at 100MHz
3Y24	4822 117 11297	100kΩ 5% 0.1W	9820	4822 117 13605	Jumper 0402	5720	4822 157 11716	Bead 30Ω at 100MHz
3Y25	4822 117 13545	100Ω 1% 0402	9821	4822 117 13605	Jumper 0402	5722	4822 157 11716	Bead 30Ω at 100MHz
3Y34	4822 117 13545	100Ω 1% 0402	9822	4822 117 13605	Jumper 0402	5723	4822 157 11716	Bead 30Ω at 100MHz
3Y35	4822 117 13545	100Ω 1% 0402	9823	3198 031 06890	68Ω 5% 0402	5726	4822 157 11716	Bead 30Ω at 100MHz
3Y36	4822 117 13545	100Ω 1% 0402	9825	4822 117 13605	Jumper 0402	5728	4822 157 11716	Bead 30Ω at 100MHz
3Y37	3198 031 04720	4.7kΩ 5% 0402	9826	4822 117 13605	Jumper 0402	5750	4822 157 11716	Bead 30Ω at 100MHz
3Y38	4822 117 13602	2.2kΩ 5% 0.01W 0402	9827	4822 117 13605	Jumper 0402	5751	4822 157 11716	Bead 30Ω at 100MHz
3Y39	4822 117 13606	10kΩ 5% 0.01W 0402	9A00	4822 117 13605	Jumper 0402	5752	4822 157 11716	Bead 30Ω at 100MHz
3Y40	4822 117 13545	100Ω 1% 0402	9A01	4822 117 13605	Jumper 0402	5753	4822 157 11716	Bead 30Ω at 100MHz
3Z22	3198 031 04720	4.7kΩ 5% 0402	9A04	4822 117 13605	Jumper 0402	5755	4822 157 11716	Bead 30Ω at 100MHz
3Z23	4822 117 13545	100Ω 1% 0402	9A05	4822 117 13605	Jumper 0402	5756	4822 157 11716	Bead 30Ω at 100MHz
3Z30	4822 117 13606	10kΩ 5% 0.01W 0402	9A06	4822 117 13605	Jumper 0402	5757	4822 157 11716	Bead 30Ω at 100MHz
3Z31	4822 117 13606	10kΩ 5% 0.01W 0402	9A07	4822 117 13605	Jumper 0402	5758	4822 157 11716	Bead 30Ω at 100MHz
3Z32	4822 117 13606	10kΩ 5% 0.01W 0402	9A25	4822 117 13605	Jumper 0402	5759	4822 157 11716	Bead 30Ω at 100MHz
3Z33	4822 117 13606	10kΩ 5% 0.01W 0402	9A65	4822 117 13605	Jumper 0402	5760	4822 157 11716	Bead 30Ω at 100MHz
3Z37	3198 031 04720	4.7kΩ 5% 0402	9A67	4822 051 20008	Jumper 0805	5761	4822 157 11716	Bead 30Ω at 100MHz
3Z56	4822 117 13548	1kΩ 5% 0402	9A71	4822 051 20008	Jumper 0805	5762	4822 157 11716	Bead 30Ω at 100MHz
9001	4822 117 13605	Jumper 0402	9C02	4822 117 13605	Jumper 0402	5763	4822 157 11716	Bead 30Ω at 100MHz
9002	4822 117 13605	Jumper 0402	9E60	4822 117 13605	Jumper 0402	5764	4822 157 11716	Bead 30Ω at 100MHz
9007	4822 117 13605	Jumper 0402	9E62	4822 117 13605	Jumper 0402	5767	4822 157 11716	Bead 30Ω at 100MHz
9010	4822 117 13605	Jumper 0402	9E65	4822 117 13605	Jumper 0402	5768	4822 157 11716	Bead 30Ω at 100MHz
9011	4822 117 13605	Jumper 0402	9E66	4822 117 13605	Jumper 0402	5769	4822 157 11716	Bead 30Ω at 100MHz
9012	4822 117 13605	Jumper 0402	9E67	4822 117 13605	Jumper 0402	5770	4822 157 11716	Bead 30Ω at 100MHz
9013	4822 117 13605	Jumper 0402	9E68	4822 117 13605	Jumper 0402	5771	4822 157 11716	Bead 30Ω at 100MHz
9023	4822 117 13605	Jumper 0402	9E69	4822 117 13605	Jumper 0402	5772	4822 157 11716	Bead 30Ω at 100MHz
9024	4822 117 13605	Jumper 0402	9E70	4822 117 13605	Jumper 0402	5775	4822 157 11716	Bead 30Ω at 100MHz
9322	4822 117 13605	Jumper 0402	9E71	4822 117 13605	Jumper 0402	5777	4822 157 11716	Bead 30Ω at 100MHz
9410	4822 117 13605	Jumper 0402	9E72	4822 117 13605	Jumper 0402	5778	4822 157 11876	6.8μH 10% 0805
9413	4822 117 13605	Jumper 0402	9E73	4822 117 13605	Jumper 0402	5800	4822 157 11716	Bead 30Ω at 100MHz
9416	4822 117 13605	Jumper 0402	9E74	4822 117 13605	Jumper 0402	5801	4822 157 11716	Bead 30Ω at 100MHz
9417	4822 117 13605	Jumper 0402	9E76	4822 117 13605	Jumper 0402	5A00	4822 157 11716	Bead 30Ω at 100MHz
9418	4822 117 13605	Jumper 0402	9E77	4822 117 13605	Jumper 0402	5A01	4822 157 11716	Bead 30Ω at 100MHz
9419	4822 117 13605	Jumper 0402	9I00	4822 117 13605	Jumper 0402	5A02	4822 157 11716	Bead 30Ω at 100MHz
9420	4822 117 13605	Jumper 0402	9I02	4822 117 13605	Jumper 0402	5A03	4822 157 11716	Bead 30Ω at 100MHz
9423	4822 117 13605	Jumper 0402	9I07	4822 117 13605	Jumper 0402	5A06	4822 157 11716	Bead 30Ω at 100MHz
9424	4822 117 13605	Jumper 0402	9I15	4822 117 13605	Jumper 0402	5A19	4822 157 11828	22μH 10% 0805
9425	4822 117 13605	Jumper 0402	9I28	4822 117 13605	Jumper 0402	5E00	4822 156 21729	Bead 1kΩ 100MHz 0805
9426	4822 117 13605	Jumper 0402	9I30	4822 117 13605	Jumper 0402	5E01	2422 549 42896	Bead 2kΩ 100MHz
9427	4822 117 13545	100Ω 1% 0402	9I31	4822 117 13605	Jumper 0402	5E02	4822 156 21729	Bead 1kΩ 100MHz 0805
9428	4822 117 13605	Jumper 0402	9I32	4822 117 13605	Jumper 0402	5E03	4822 156 21729	Bead 1kΩ 100MHz 0805
9702	4822 117 13605	Jumper 0402	9I33	4822 117 13605	Jumper 0402	5E50	4822 157 11499	Bead 10Ω at 100MHz
9704	4822 117 13605	Jumper 0402	9I34	4822 117 13605	Jumper 0402	5E51	2422 549 42896	Bead 2kΩ 100MHz
9706	4822 117 13605	Jumper 0402	9I35	4822 117 13605	Jumper 0402	5E52	2422 549 43062	Bead 10Ω at 100MHz
9707	4822 117 13605	Jumper 0402	9I39	4822 117 13605	Jumper 0402	5E53	2422 536 00779	10μH 10%
9708	4822 117 13605	Jumper 0402	9I45	4822 117 13605	Jumper 0402	5E54	4822 157 11499	Bead 10Ω at 100MHz
9709	4822 117 13605	Jumper 0402	9I49	4822 117 13605	Jumper 0402	5E55	2422 549 43062	Bead 10Ω at 100MHz
9710	4822 117 13605	Jumper 0402	9I68	4822 117 13605	Jumper 0402	5E58	2422 549 43062	Bead 10Ω at 100MHz
9713	4822 117 13605	Jumper 0402	9I85	4822 117 13605	Jumper 0402	5I05	4822 157 11716	Bead 10Ω at 100MHz
9714	4822 117 13605	Jumper 0402	9IA5	4822 117 13605	Jumper 0402	5I06	4822 157 11716	Bead 10Ω at 100MHz
9715	4822 117 13605	Jumper 0402	9IA7	4822 117 13605	Jumper 0402	5I12	4822 157 11716	Bead 10Ω at 100MHz
9716	4822 117 13605	Jumper 0402	9ID0	4822 117 13605	Jumper 0402	5I13	4822 157 11716	Bead 10Ω at 100MHz
9717	4822 117 13605	Jumper 0402	9ID1	4822 117 13605	Jumper 0402	5I21	4822 157 11716	Bead 10Ω at 100MHz
9718	4822 117 13605	Jumper 0402	9ID3	4822 117 13605	Jumper 0402	5I22	4822 157 11716	Bead 10Ω at 100MHz
9720	4822 117 13605	Jumper 0402	9ID5	4822 117 13605	Jumper 0402	5I30	4822 157 11716	Bead 10Ω at 100MHz
9721	4822 117 13605	Jumper 0402	9ID8	4822 117 13605	Jumper 0402	5I31	4822 157 11716	Bead 10Ω 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	PDTIC144ET
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	MSB1V04160-25TB
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	MSP341 1G-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	SI9078CQ52
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

7132	9351 869 40118	74HC4053PW
7135	3198 010 42310	BC847BW
7136	3198 010 42310	BC847BW
7137	3198 010 42320	BC857BW
7138	3198 010 42310	BC847BW
7144	9340 425 20115	BC847BS
7149	9340 310 30215	PDTC144ET
7150	9340 425 30115	BC847BPN
7151	9340 560 35235	BSH112
7152	9340 560 35235	BSH112
7153	9340 425 30115	BC847BPN
7155	4822 209 16095	BA7657F
7156	3198 010 42310	BC847BW
7157	3198 010 42310	BC847BW
7158	3198 010 42310	BC847BW
7162	3198 010 42310	BC847BW
7171	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. CINCHE 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



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] (FTL2.2E 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



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	200kΩ 1% 0.125W 0805
3014	3198 031 03910	390Ω 1% 0.402
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



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



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
9521	4822 051 30008	Jumper 0603
9524	4822 051 30008	Jumper 0603



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	BAS318
6505	4822 130 11416	PDZ6.8B
6506	4822 130 11416	PDZ6.8B
6507	9322 129 41685	BZM55C12
6508	4822 130 11551	UDZ51DB



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	TSOP3 236YA1
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	

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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	220μF 20% 10V	
2511	4822 124 12379	220μF 25V	
2513▲	4822 126 10206	2.2nF 10% 500V	
2515	4822 126 14238	1.2nF 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	
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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
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
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	47Ω 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 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	4.7kΩ 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	47kΩ 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	3.3kΩ 5% 0.062W
3760	4822 051 30332	3.3kΩ 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.