Self Diagnosis Supported model

HISTORY INFORMATION FOR THE FOLLOWING MANUAL:

SERVICE MANUAL

LEVEL 3
CONFIDENTIAL

ELECTRICAL SERVICE INTERNAL DISTRIBUTION ONLY

RB2G CHASSIS

Segment: HE-L

MODEL	COMMANDER	DESTINATION
KDL-32W700B	RM-YD103	US / Canada
KDL-32W700B	RM-YD103	Mexico / Latin America
KDL-42W700B	RM-YD103	US / Canada
KDL-42W800B	RM-YD103	Mexico / Latin America
KDL-42W805B	RM-YD099	Brazil
KDL-50W700B	RM-YD103	US / Canada
KDL-50W790B	RM-YD102	US / Canada
KDL-50W800B	RM-YD102	US / Canada
KDL-50W800B	RM-YD102	Mexico / Latin America
KDL-50W805B	RM-YD099	Argentina
KDL-50W805B	RM-YD099	Brazil
KDL-50W805B	RM-YD099	Chile / Peru / Ecuador
KDL-50W807B	RM-YD099	Colombia
KDL-55W700B	RM-YD103	US / Canada
KDL-55W790B	RM-YD102	US / Canada
KDL-55W800B	RM-YD102	US / Canada
KDL-55W800B	RM-YD102	Mexico / Latin America
KDL-55W805B	RM-YD099	Brazil
KDL-55W805B	RM-YD099	Chile / Peru
KDL-55W807B	RM-YD099	Colombia

ORIGINAL MANUAL ISSUE DATE: 2/2015

REVISION DATE	SUBJECT
2/6/2015	Original Manual Release Date

LCD DIGITAL COLOR TV

SONY

9-883-559-51

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CAUTIONS AND WARNINGS

CAUTION

These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

WARNING!!

An isolation transformer should be used during any service to avoid possible shock hazard, in case of live chassis.

⚠ SAFETY-RELATED COMPONENT WARNING!!

There are critical components used in LCD color TVs that are important for safety. These components are identified with shading and ⚠ mark on the schematic diagrams and the parts list. It is essential that these critical parts be replaced only with the part number specified in the parts list to prevent electric shock, fire, or other hazard.

NOTE: Do not modify the original design without obtaining written permission from the manufacturer or you will void the original parts and labor warranty.

ATTENTION!!

Ces instructions de service sont à l'usage du personnel de service qualifié seulement. Pour prévenir le risque de choc électrique, ne pas faire l'entretien autre que celui contenu dans le Mode d'emploi à moins que vous soyez qualifié faire ainsi.

ALERTE!!

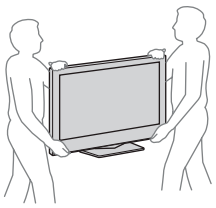
Afin d'eviter tout risque d'electrocution provenant d'un châssis sous tension, un transformateur d'isolement doit etre utilisé lors de tout dépannage.

⚠ ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

Les composants identifies par une trame et par une marque ⚠ sur les schemas de principe, les vues explosees et les listes de pieces sont d'une importance critique pour la securite du fonctionnement. Ne les remplacer que par des composants Sony dont le numero de piece est indique dans le present manuel ou dans des supplements publies par Sony. Les reglages de circuit dont l'importance est critique pour la securite du fonctionnement sont identifies dans le present manuel. Suivre ces procedures lors de chaque remplacement de composants critiques, ou lorsqu'un mauvais fonctionnement suspecte.

SETTING UP AND CARRYING THE TV

- Disconnect all cables when carrying the TV.
- Carry the TV with the adequate number of people; larger size TVs require two or more people.
- Correct hand placement while carrying the TV is very important for safety and to avoid damage.

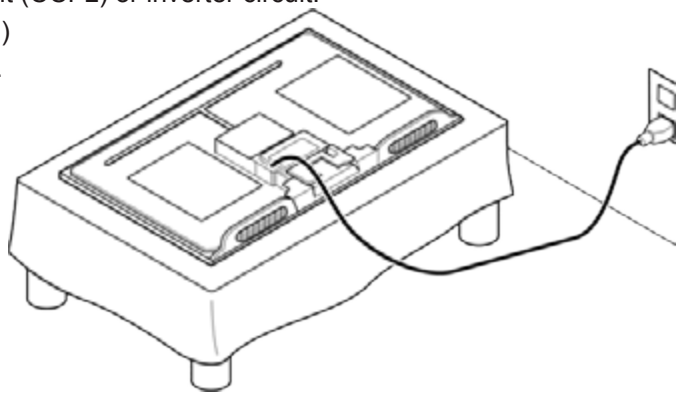


USE CAUTION WHEN HANDLING THE LCD PANEL

When repairing the LCD panel, be sure you are grounded by using a wrist band.
When installing the LCD panel on a wall, the LCD panel must be secured using the 4 mounting holes on the rear cover.

To avoid damaging the LCD panel:

1. Do not press on the panel or frame edge to avoid the risk of electric shock.
2. Do not scratch or press on the panel with any sharp objects.
3. Do not leave the module in high temperatures or in areas of high humidity for an extended period of time.
4. Do not expose the LCD panel to direct sunlight.
5. Avoid contact with water. It may cause a short circuit within the module.
6. Disconnect the AC power when replacing the backlight (CCFL) or inverter circuit. (High voltage occurs at the inverter circuit at 650Vrms.)
7. Always clean the LCD panel with a soft cloth material.
8. Use care when handling the wires or connectors of the inverter circuit. Damaging the wires may cause a short.
9. Protect the panel from ESD to avoid damaging the electronic circuit (C-MOS).
10. During the repair, DO NOT leave the Power On for more than 1 hour while the TV is face down on a cloth.



CLEANING THE LCD PANEL

CAUTION: When cleaning the TV, be sure to unplug the power cord to avoid any chance of electric shock.
Clean the cabinet of the TV with a dry soft cloth.
Wipe the LCD screen gently with a soft cloth.

- ☑ Stubborn stains may be removed with a cloth slightly moistened with a solution of mild soap and warm water.
- ☑ If using a chemically pretreated cloth, please follow the instruction provided on the package.
- ☑ Never use strong solvents such as a thinner, alcohol or benzine for cleaning.
- ☑ Periodic vacuuming of the ventilation openings is recommended to ensure proper ventilation.

- ⊘ Do Not use paper towels, any type of abrasive pad, rags, rubber or vinyl materials to clean the screen. Using these materials could easily scratch the screen which may result in permanent damage.
- ⊘ Do Not use any cleaning product containing alkaline/acid cleaner, scouring powder, or volatile solvent, such as alcohol, ammonia, benzine, thinner or insecticide. Using any of these harsh cleaners may result in permanent damage to the screen.
- ⊘ Do Not spray water or detergent directly onto the TV screen . If liquid drips into the bottom of the screen it may cause a failure.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are “pinched” or touching high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described in “Leakage Test”.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester. Follow the manufacturers’ instructions provided with the tester.
2. A battery-operated AC milliammeter.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low voltage scale. Nearly all battery-operated digital multimeters that have a 2 VAC range are suitable. (see Figure A)

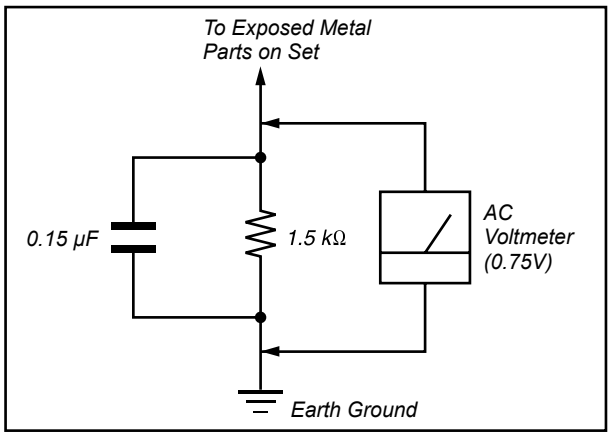


Figure A. Use an AC voltmeter to check AC leakage.

HOW TO FIND A GOOD EARTH GROUND

The cover-plate retaining screw on most AC outlet boxes is at earth ground. Verify the AC outlet box retaining screw ground by connecting a 60W to 100W incandescent (not a neon or fluorescent lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side on the line; the lamp should light at normal brilliance if the screw is at ground potential. (see Figure B)

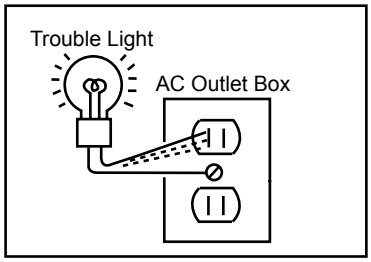
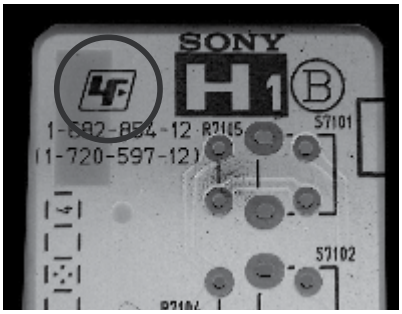


Figure B. Checking for earth ground.

The circuit boards used in these models have been processed using Lead Free Solder. The boards are identified by the LF logo located close to the board designation e.g. H1 etc [see example]. The servicing of these boards requires special precautions to be taken as outlined below.



example

It is strongly recommended to use Lead Free Solder material in order to guarantee optimal quality of new solder joints. Lead Free Solder is available under the following part numbers :

Part number	Diameter	Remarks
7-640-005-19	0.3mm	0.25Kg
7-640-005-20	0.4mm	0.50Kg
7-640-005-21	0.5mm	0.50Kg
7-640-005-22	0.6mm	0.25Kg
7-640-005-23	0.8mm	1.00Kg
7-640-005-24	1.0mm	1.00Kg
7-640-005-25	1.2mm	1.00Kg
7-640-005-26	1.6mm	1.00Kg

Due to the higher melting point of Lead Free Solder the soldering iron tip temperature needs to be set to 370 degrees celsius. This requires soldering equipment capable of accurate temperature control coupled with a good heat recovery characteristics.

HANDLING THE FLEXIBLE FLAT CABLE (FFC)

When you connect / disconnect the FFC, please hold Reinforcement Plastic and FFC Cable as shown below:



GOOD

Connect LVDS holding both the FFC Cable and reinforcement plastic.

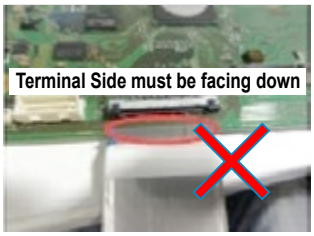


NOT GOOD

DO NOT pull or insert LVDS holding only from the reinforcement plastic.



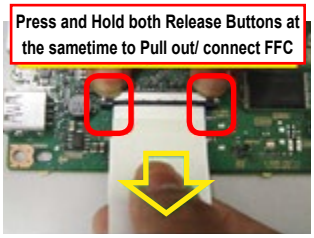
GOOD

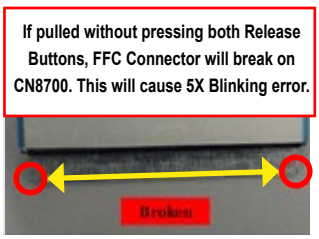


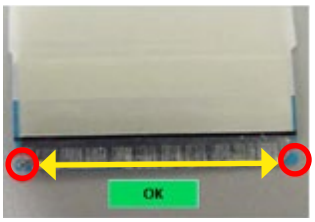
NOT GOOD

To avoid any damage to the Connector and/or the FFC Cable follow the steps show:









SECTION 1: DIAGRAMS

1-1. PRINTED CIRCUIT BOARDS AND SCHEMATIC DIAGRAMS INFORMATION

All capacitors are in µF unless otherwise noted. pF : µµF 50WV or less are not indicated except for electrolytics and tantalums.

All electrolytics are in 50V unless otherwise specified.

All resistors are in ohms. kΩ=1000Ω, MΩ=1000kΩ

Indication of resistance, which does not have one for rating electrical power, is as follows: **Pitch : 5mm**
Rating electrical power : $^1/_4$ W

$^1/_4$ W in resistance, $^1/_{10}$ W and $^1/_{16}$ W in chip resistance.

: nonflammable resistor

: fusible resistor

: internal component

: panel designation and adjustment for repair

: earth ground

: earth-chassis

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

Readings are taken with a color-bar signal input.

Readings are taken with a 10MΩ digital multimeter.

Voltages are DC with respect to ground unless otherwise noted.

Voltage variations may be noted due to normal production tolerances.

All voltages are in V.

S : Measurement impossibility.

: B+line.

: B-line. (Actual measured value may be different).

: signal path. (RF)

Circled numbers are waveform references.

The components identified by shading and ⚠ symbol are critical for safety. Replace only with part number specified.

The symbol indicates a fast-blow fuse and is displayed on the component side of the board. Replace only with fuse of the same rating as marked.

NOTE: The components identified by a red outline and a mark contain confidential information. Specific instructions must be adhered to whenever these components are repaired and/or replaced.
See Appendix A: Encryption Key Components in the back of this manual.

REFERENCE INFORMATION

RESISTOR
: RN METAL FILM
: RC SOLID
: FPRD NONFLAMMABLE CARBON
: FUSE NONFLAMMABLE FUSIBLE
: RW NONFLAMMABLE WIREWOUND
: RS NONFLAMMABLE METAL OXIDE
: RB NONFLAMMABLE CEMENT
: ※ ADJUSTMENT RESISTOR

CAPACITOR
: TA TANTALUM
: PS STYROL
: PP POLYPROPYLENE
: PT MYLAR
: MPS METALIZED POLYESTER
: MPP METALIZED POLYPROPYLENE
: ALB BIPOLAR
: ALT HIGH TEMPERATURE
: ALR HIGH RIPPLE

COIL
: LF-8L MICRO INDUCTOR

Terminal name of semiconductors in silk screen printed circuit (✻)

	Device	Printed symbol	Terminal name	Circuit
1	Transistor		Collector / Base / Emitter	
2	Transistor		Collector / Base / Emitter	
3	Diode		Cathode / Anode	
4	Diode		Cathode / Anode / (NC)	
5	Diode		Cathode / Anode / (NC)	
6	Diode		Common / Anode / Cathode	
7	Diode		Common / Anode / Cathode	
8	Diode		Common / Anode / Anode	
9	Diode		Common / Anode / Anode	
10	Diode		Common / Cathode / Cathode	
11	Diode		Common / Cathode / Cathode	
12	Diode		Anode Anode Cathode / Cathode Anode Anode	
13	Transistor (FET)		Drain / Source / Gate	
14	Transistor (FET)		Drain / Source / Gate	
15	Transistor (FET)		□ Source □ Drain □ Gate	
16	Transistor		□ Emitter □ Collector □ Base	
17	Transistor		C2 B1 E1 / E2 B2 C1	
18	Transistor		C1 B2 E2 / E1 B1 C2	
19	Transistor		C1 B2 E2 / E1 B1 C2	
20	Transistor		C1 B2 E2 / E1 B1 C2	
21	Transistor		E2 B1 E1 / C2 C1(B2)	
22	Transistor		(B2) B1 E1 E2 / C1 C2	
23	Transistor		(B2) E2 E1 B1 / C2 C1	
–	Discrete semiconductor			

(Chip semiconductors that are not actually used are included.)

Ver.1.6

SECTION 1: DIAGRAMS

1-2. CIRCUIT BOARDS LOCATION

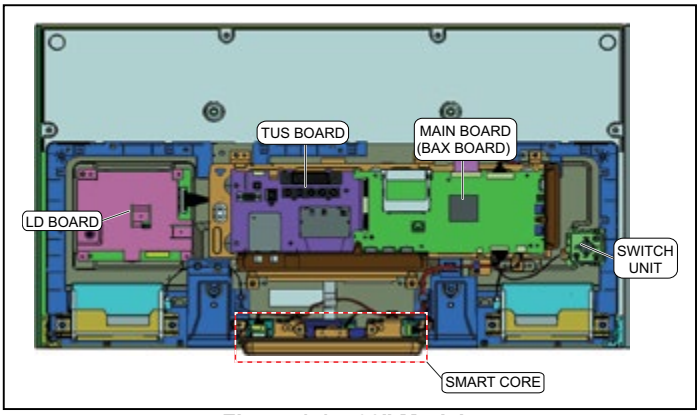


Figure 1-1. 32” Models

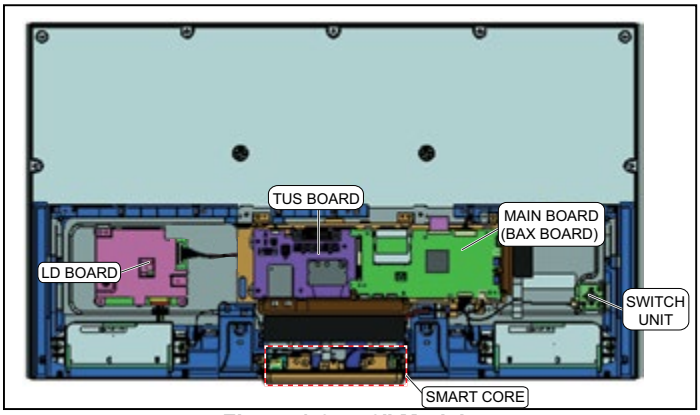


Figure 1-2. 42” Models

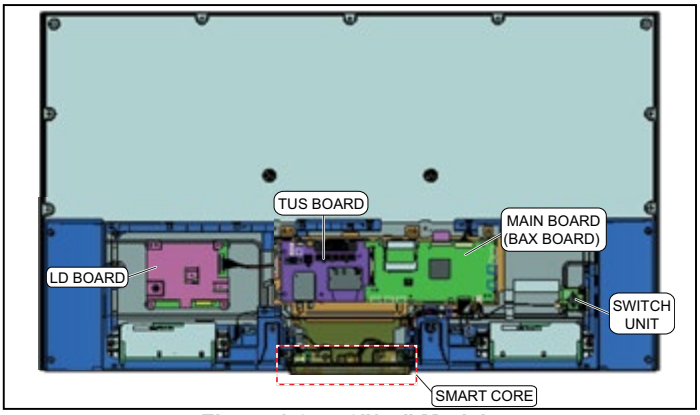


Figure 1-3. 50”/55” Models

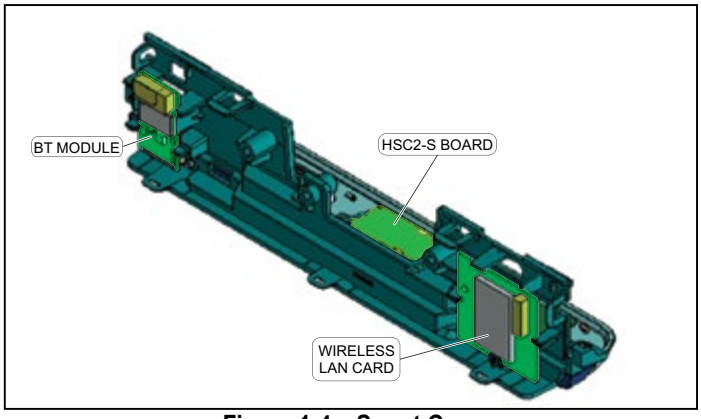
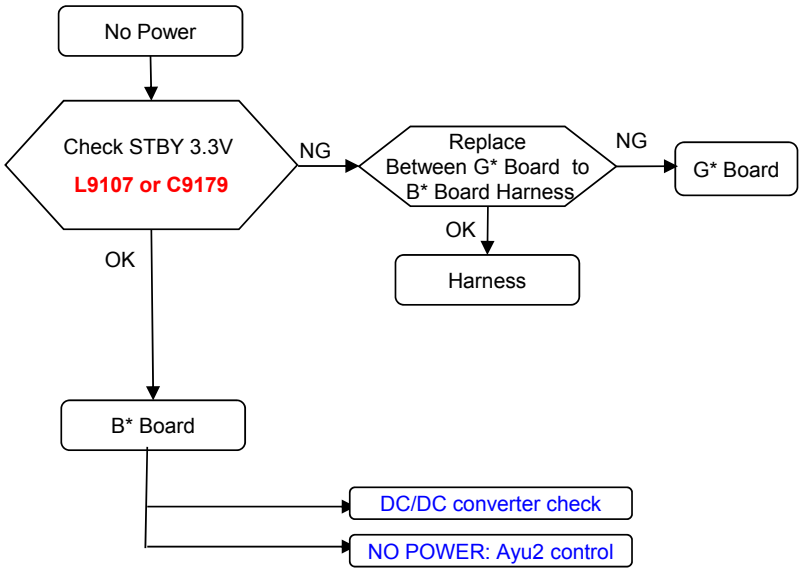


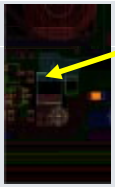
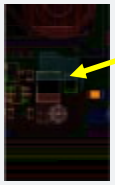
Figure 1-4. Smart Core

SECTION 2: TROUBLESHOOTING

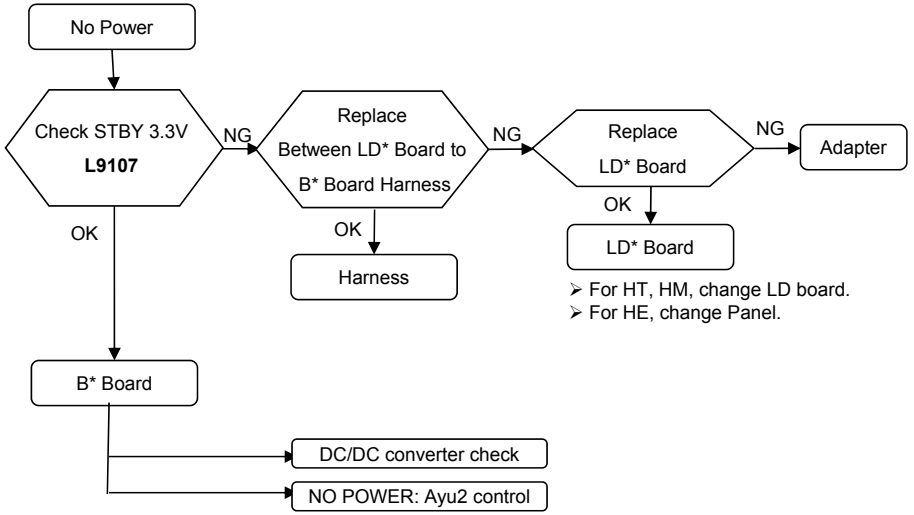
[2.1 - NO POWER]

2.1-1 - NO POWER: GENERAL

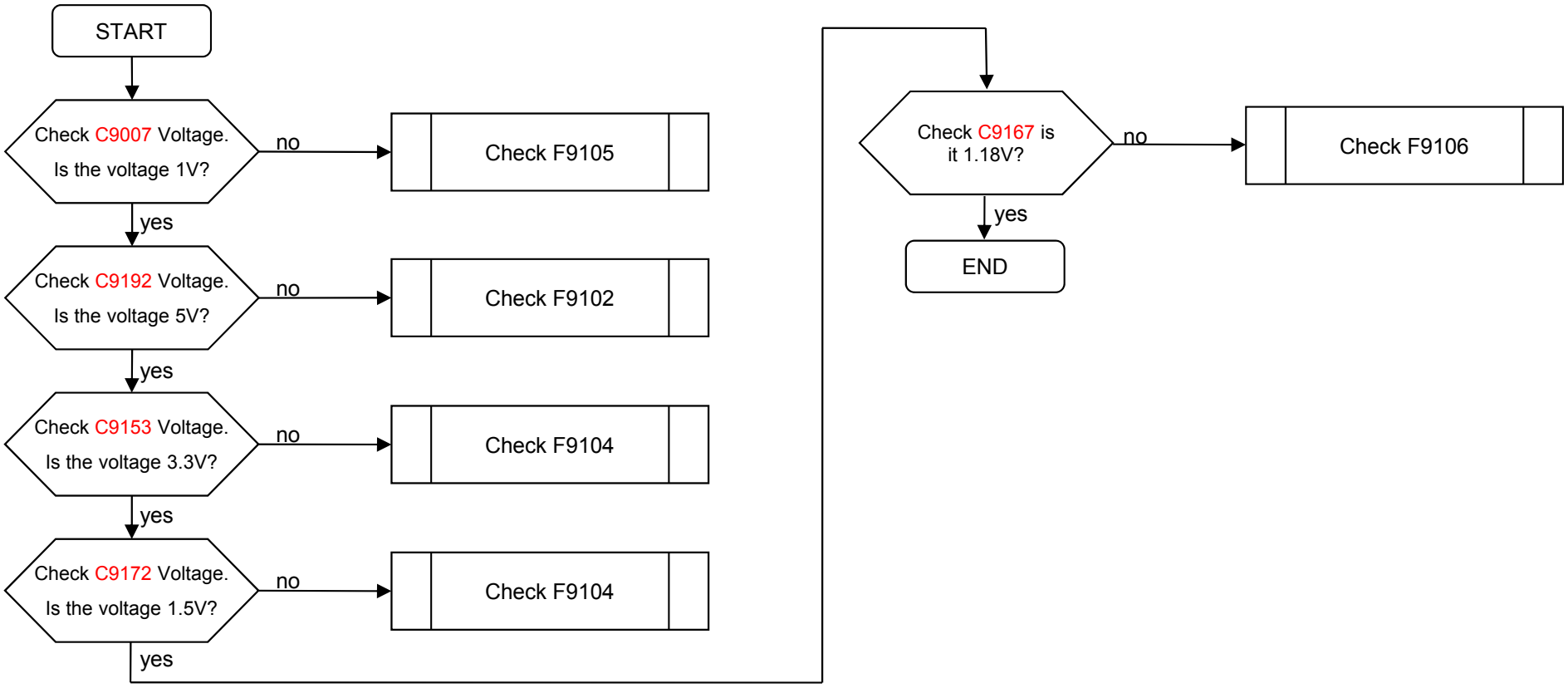


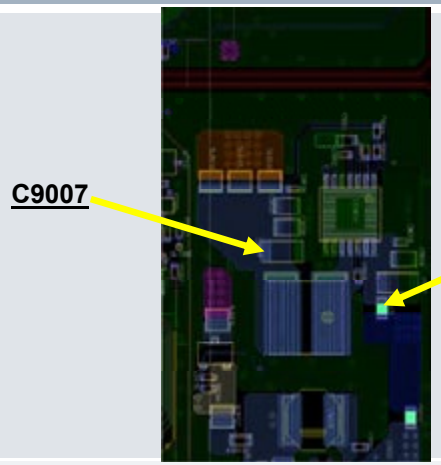
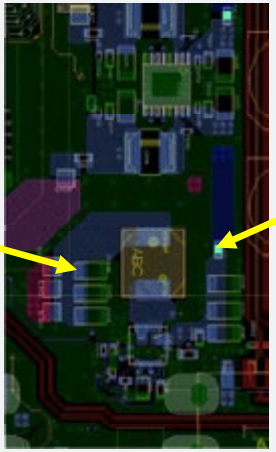
Board Name	Board PWB (B side)	Detail
BAX (L9107)		
BAX (C9179)		

2.1-2 - NO POWER: AC ADAPTOR

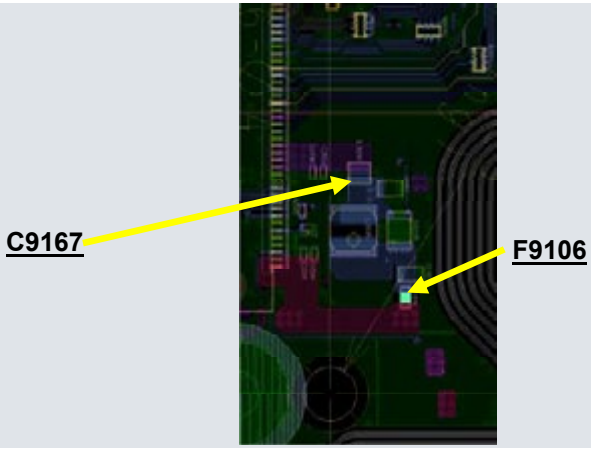


2.1-3 - NO POWER: DC/DC CONVERTER CHECK

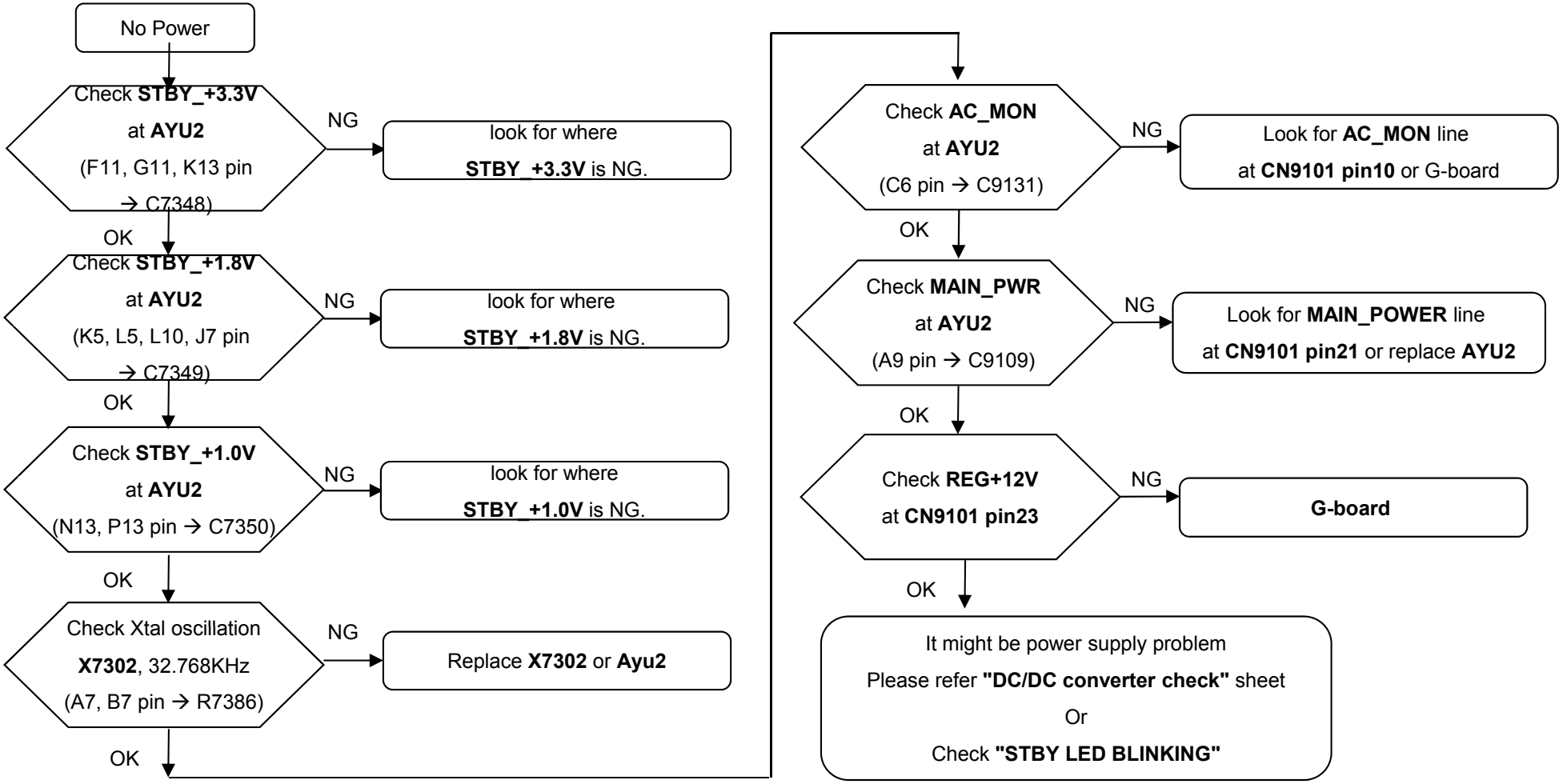


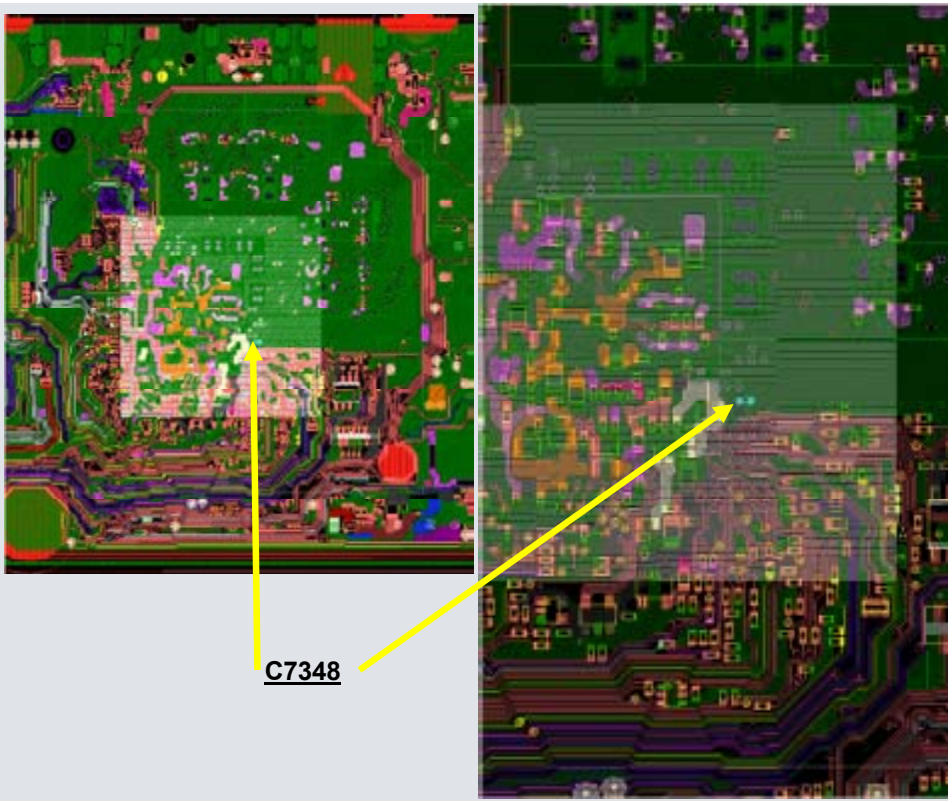
BAX	Board PWB (A side)	Detail
BAX		
BAX		

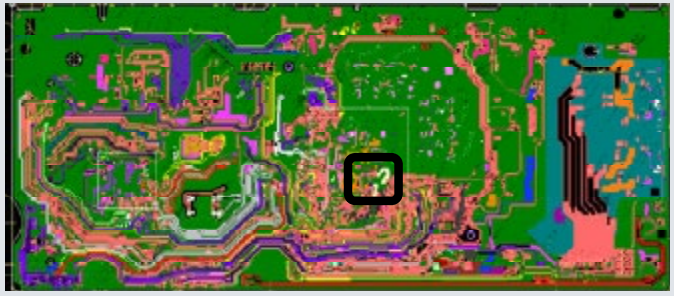
BAX		
BAX		

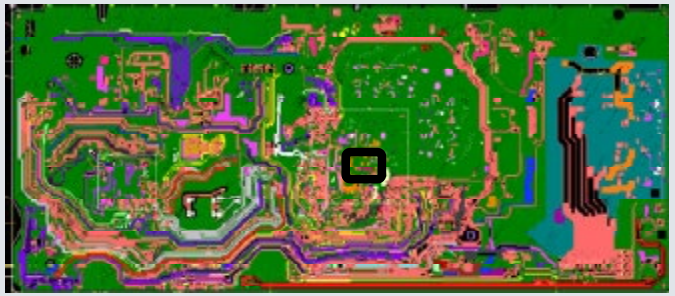
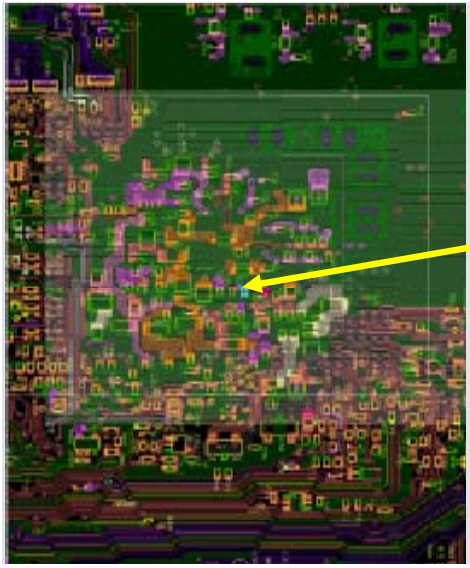
BAX	Board PWB (A side)	Detail
BAX		

2.1-4 - NO POWER: AYU2 CONTROL



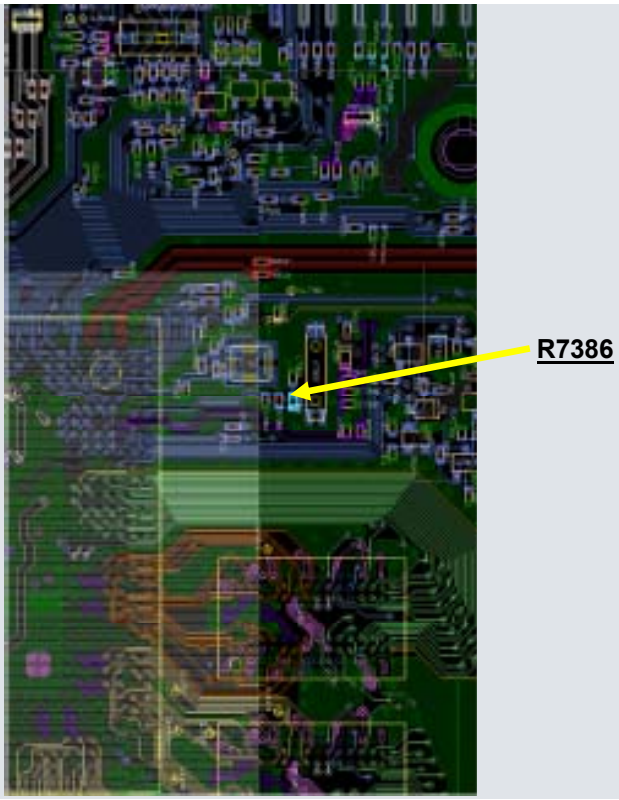
Board Name	Board PWB (B side)	Detail
BAX (C7348)		

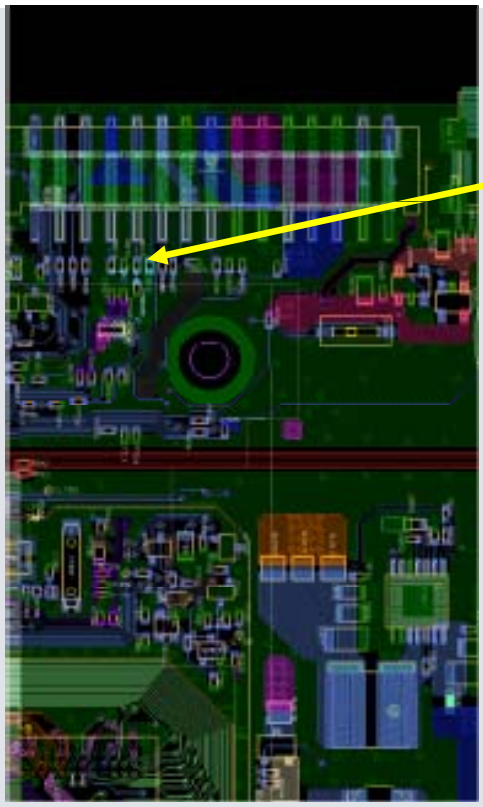
Board Name	Board PWB (B side)	Detail
BAX (C7349)		

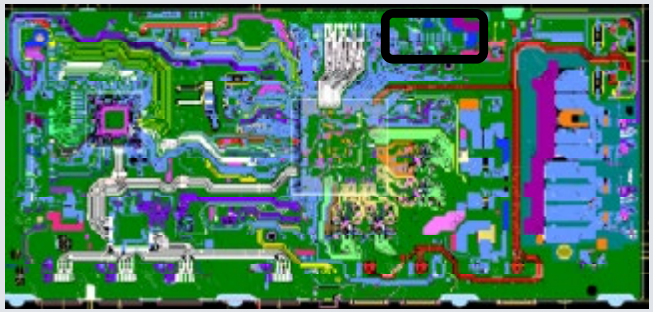
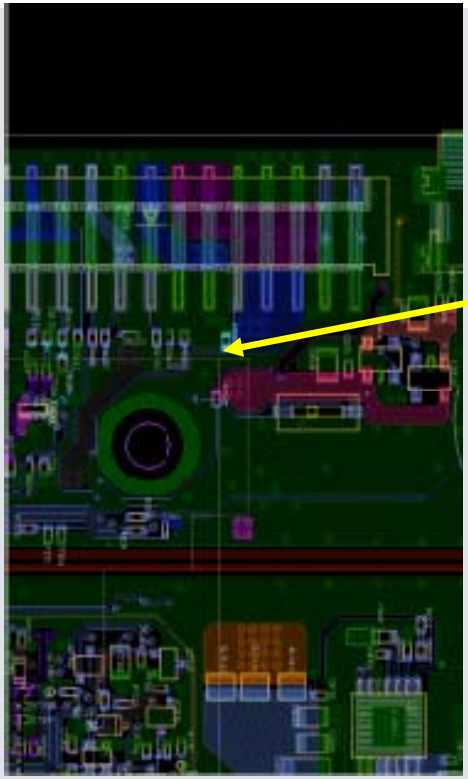
Board Name	Board PWB (B side)	Detail
BAX (C7350)		

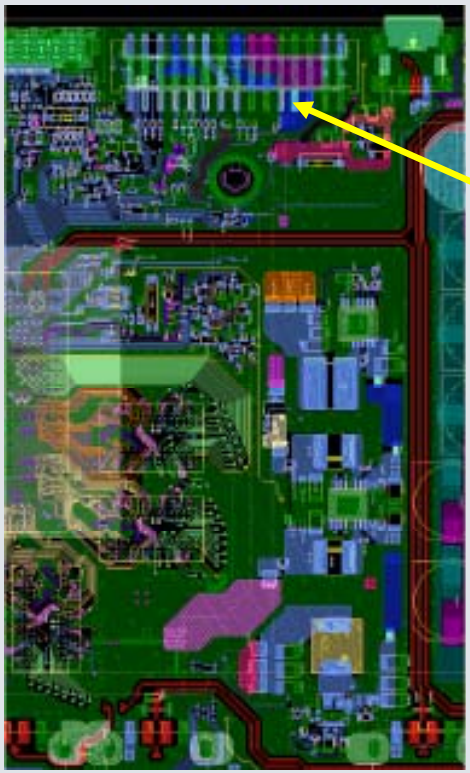
BAX
(R7386)



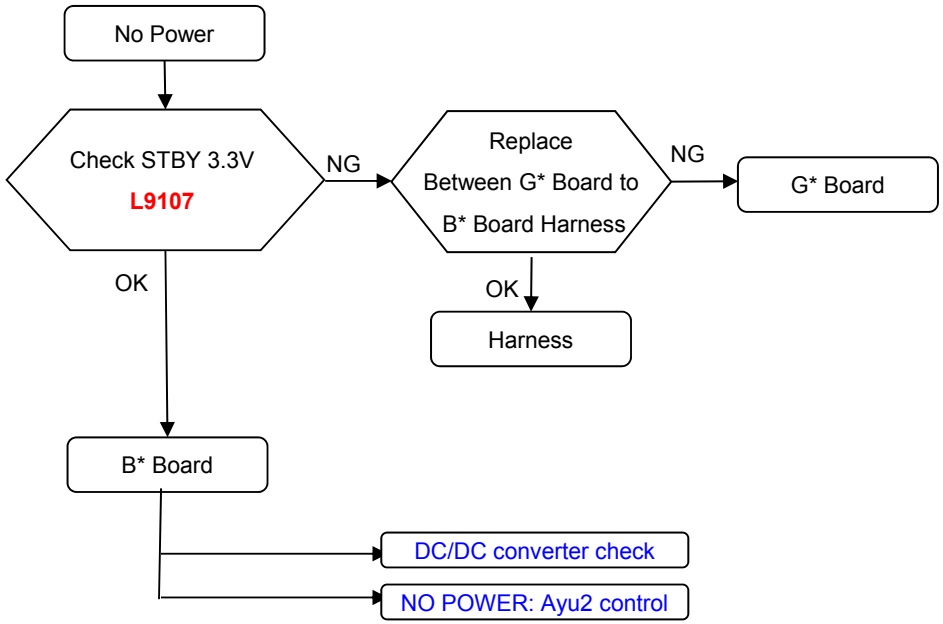


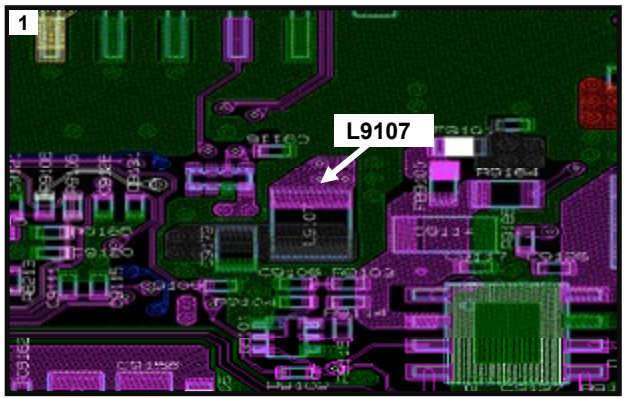
Board Name	Board PWB (A side)	Detail
BAX (C9131)		

Board Name	Board PWB (A side)	Detail
BAX (C9109)		

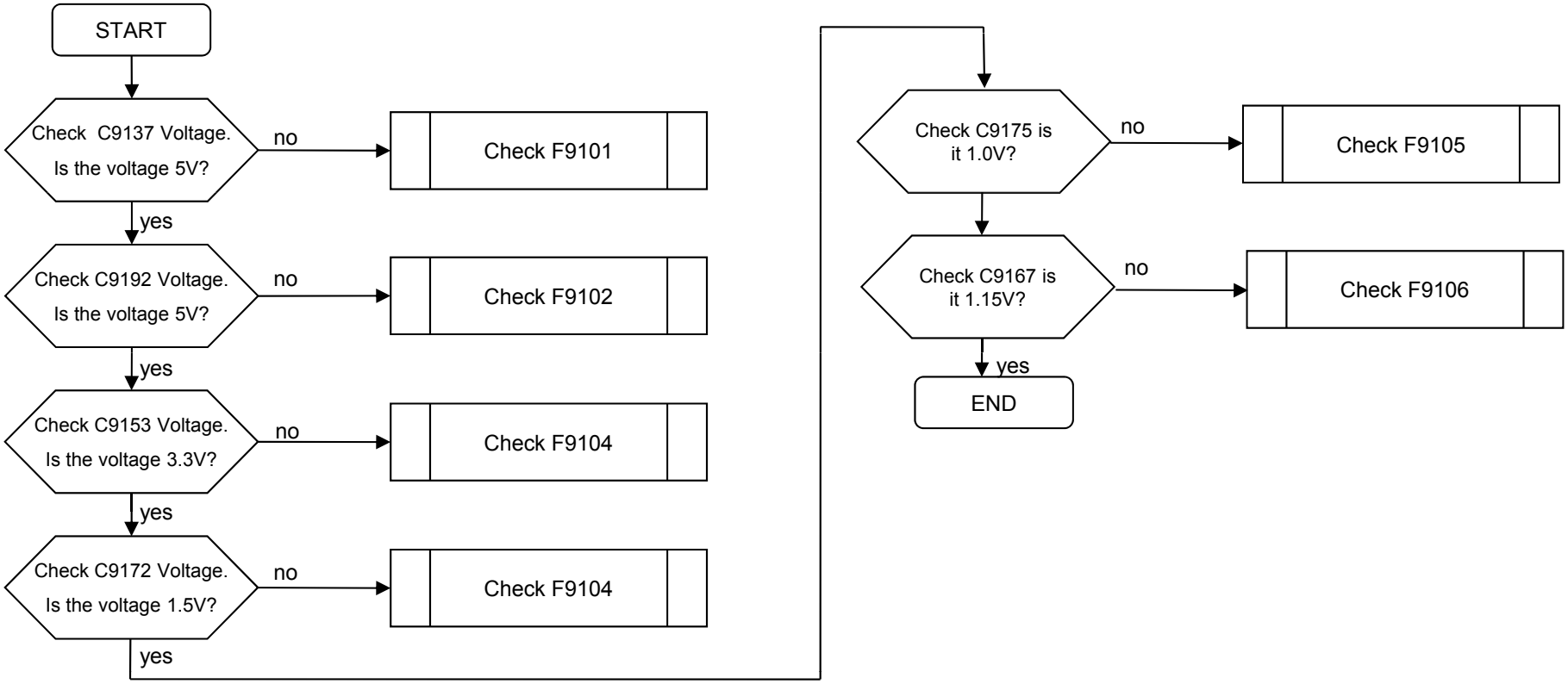
Board Name	Board PWB (A side)	Detail
BAX (CN9101 Pin 23)		

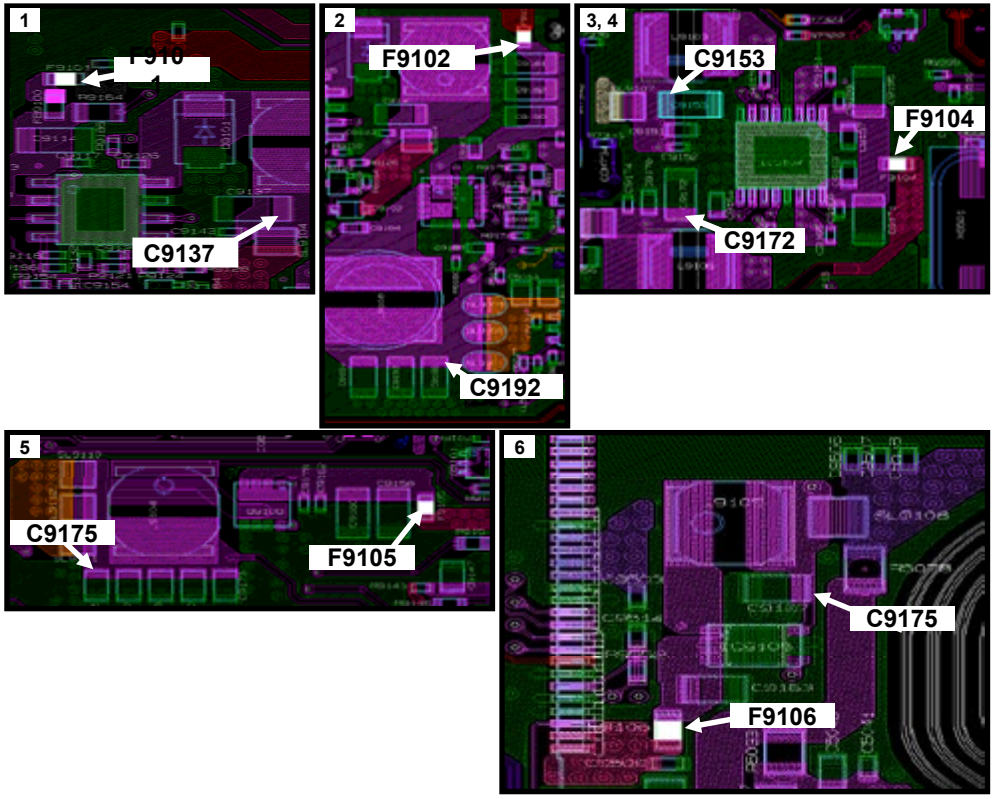
2.1-5 - NO POWER: G BOARD



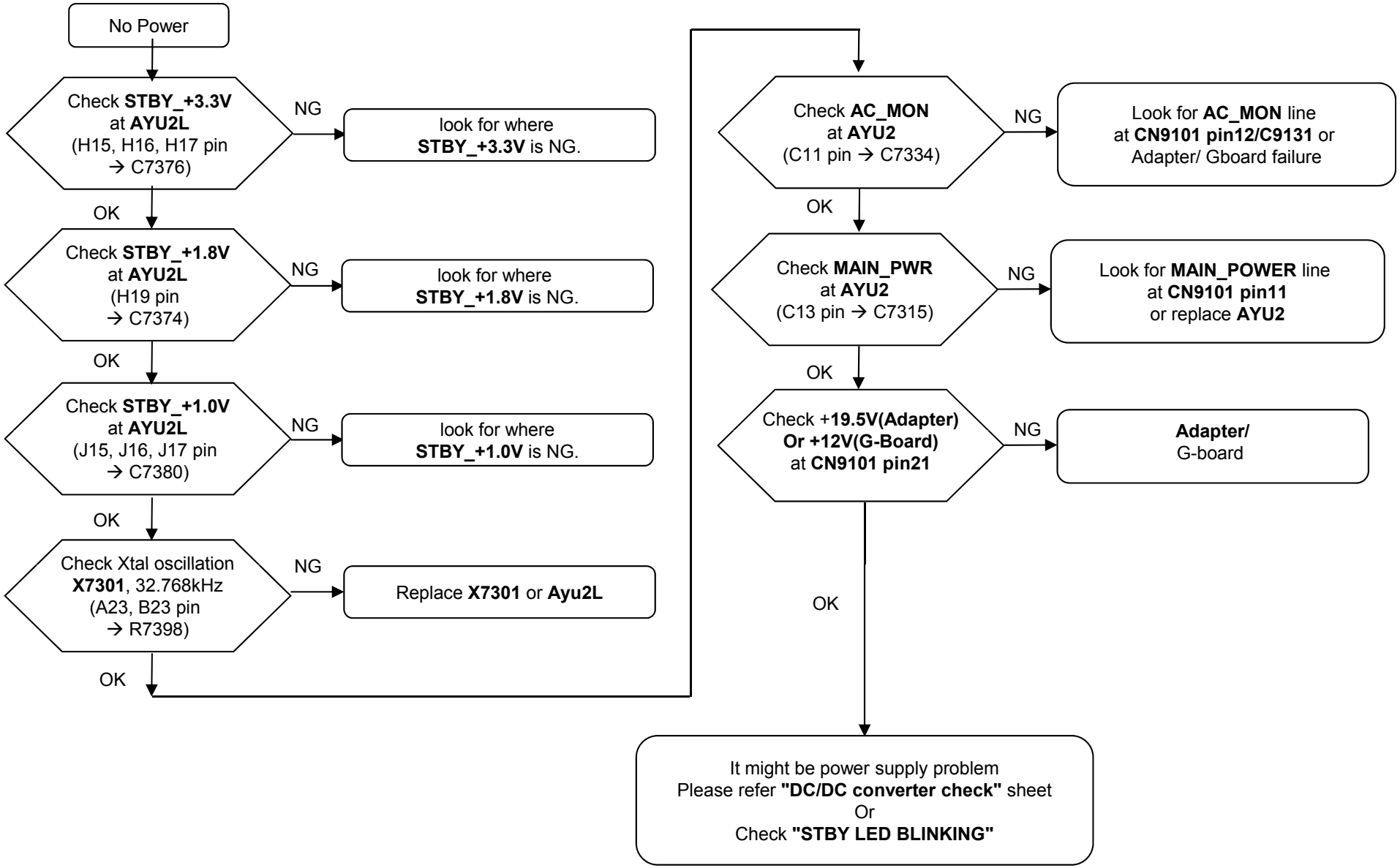
Board Name	Board PWB (A side)	Detail
BAX-L 1.L9107		

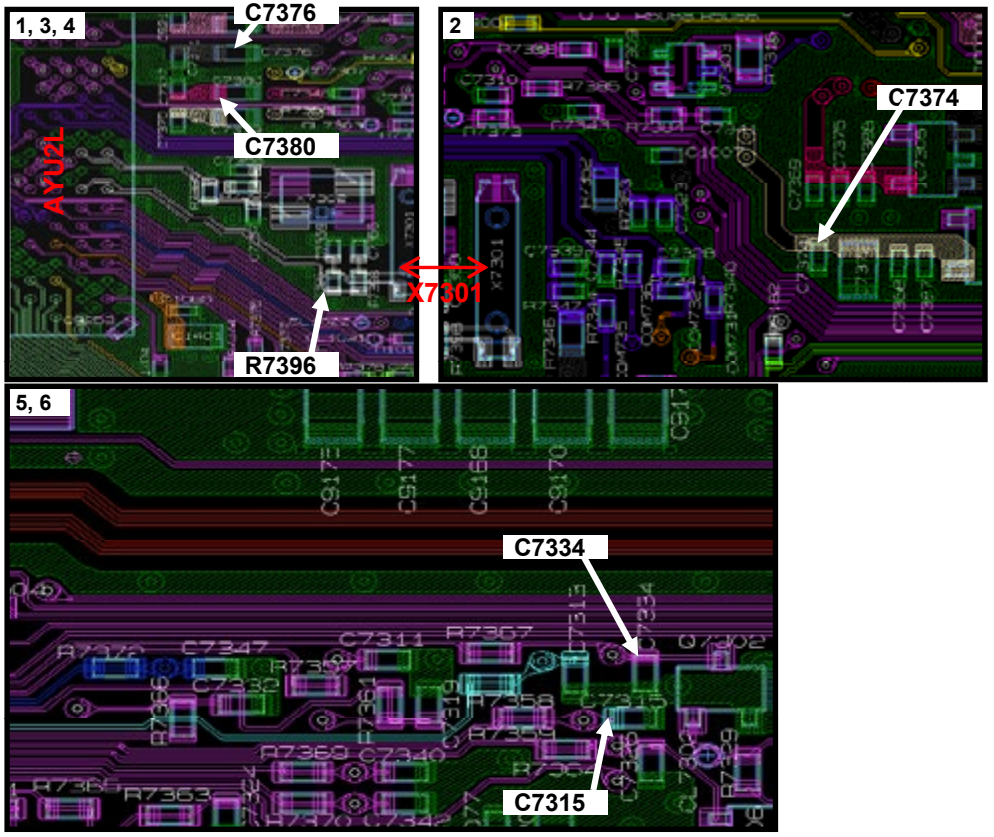
2.1-6 - NO POWER: DC/DC CONVERTER CHECK

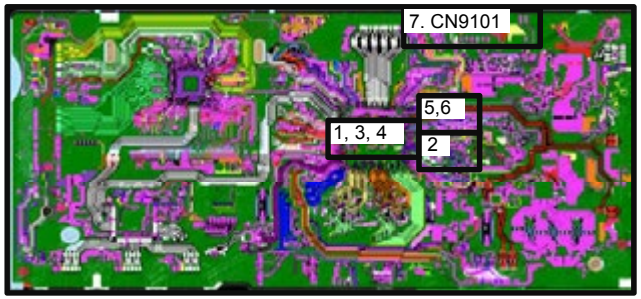
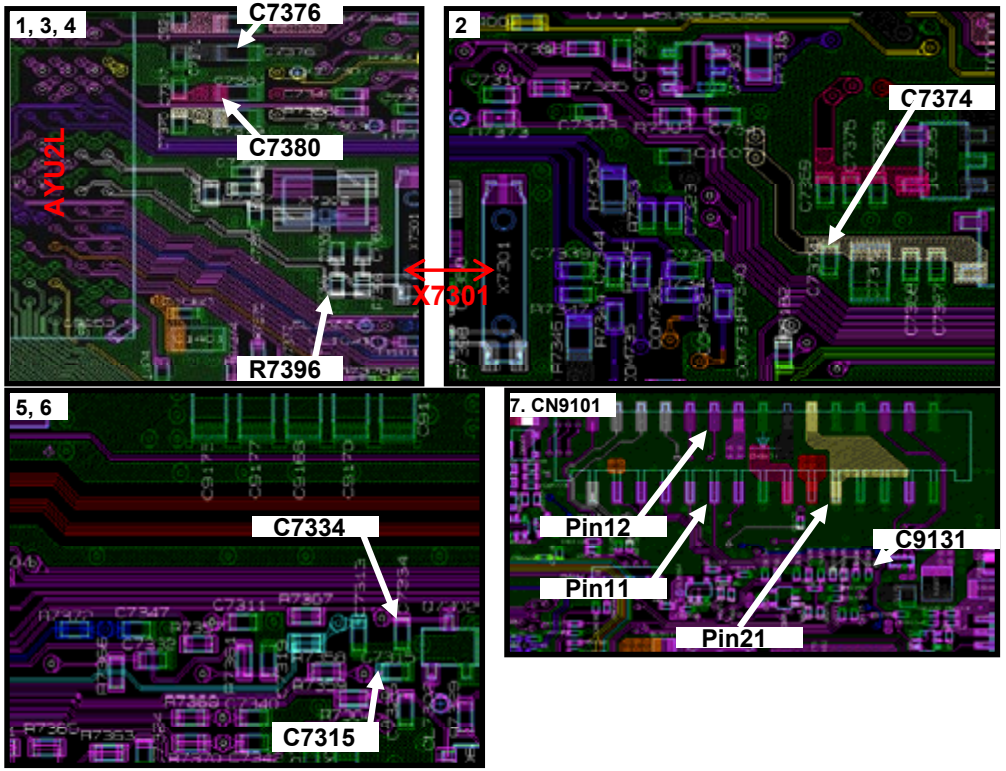


Board Name	Board PWB (A side)	Detail
BAX-L 1.C9137 [5V] F9101 2.C9192 [5V] F9102 3.C9153 [3.3V] F9104 4.C9172 [1.5V] F9104 5.C9175 [1V] F9105 6.C9167[1.15V] F9106		

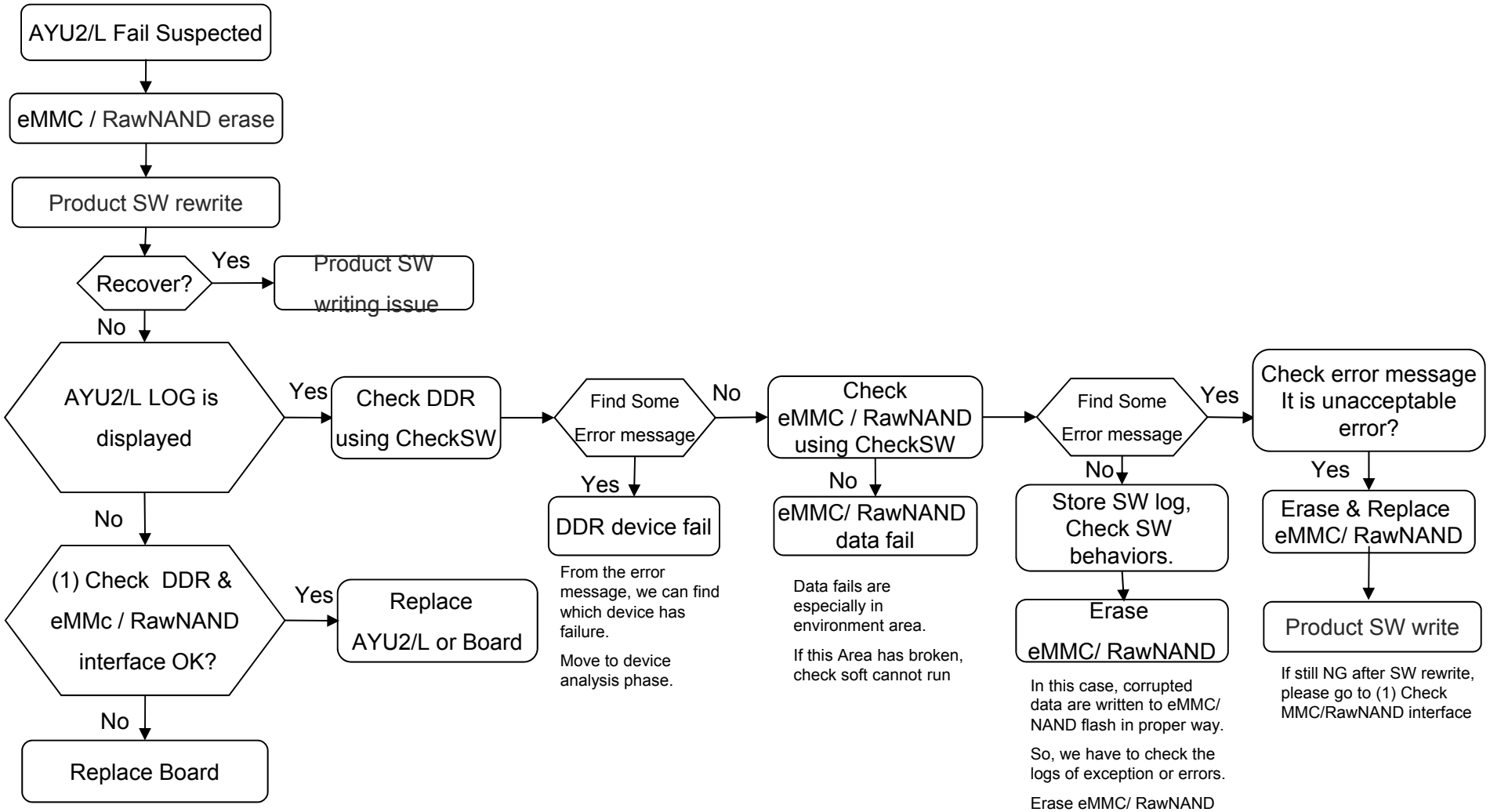
2.1-7 - NO POWER: AYU2L CONTROL



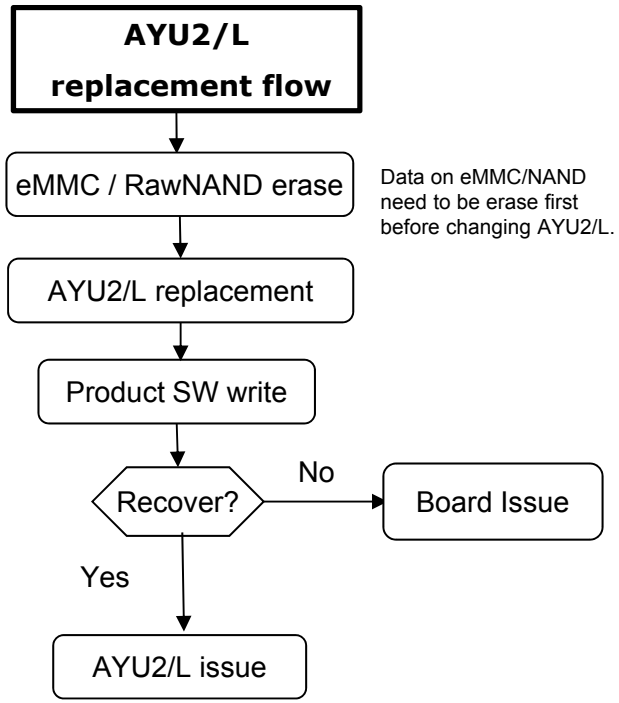
Board Name	Board PWB (A side)	Detail
BAX-L 1. C7376 2. C7374 3. C7380 4. R7396 5. C7334 6. C7315		

Board Name	Board PWB (A side)	Detail
BAX-L 1. C7376 2. C7374 3. C7380 4. R7396 5. C7334 6. C7315 7. CN9101		

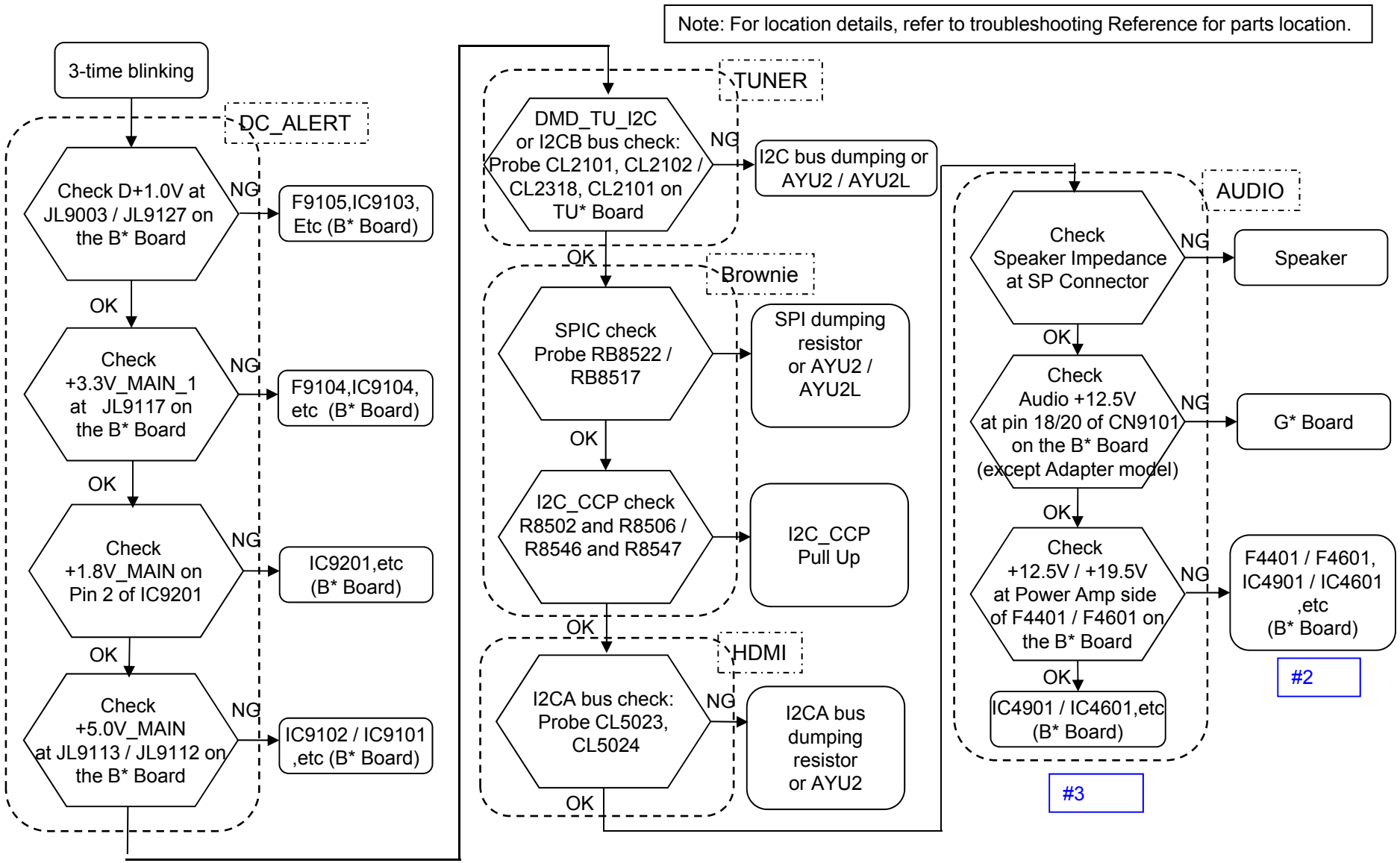
2.1-8 - NO POWER: AYU2/AYU2L FAILURE

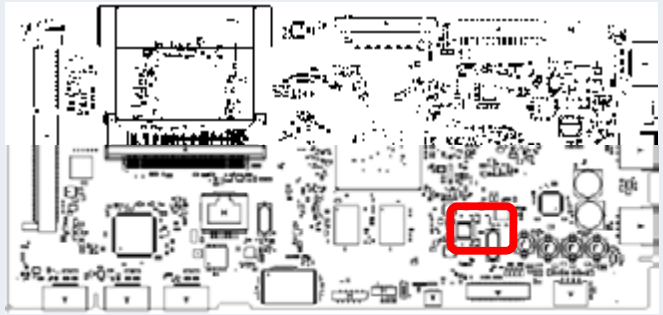
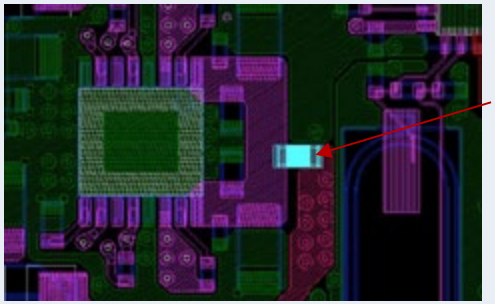
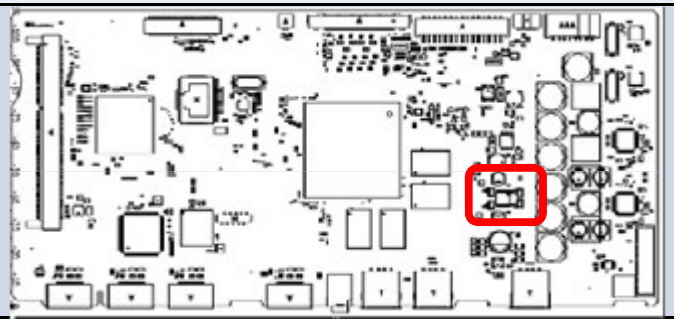
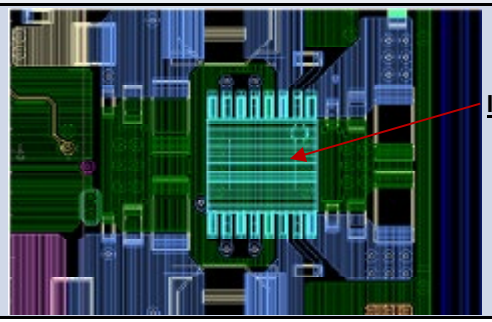


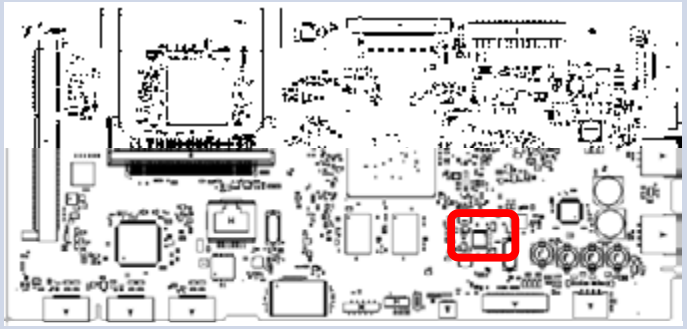
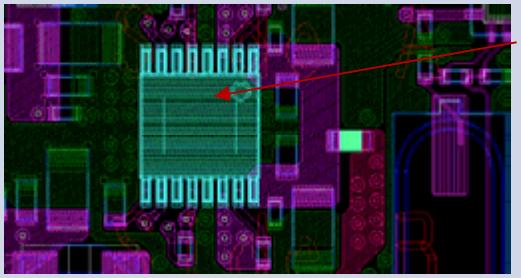
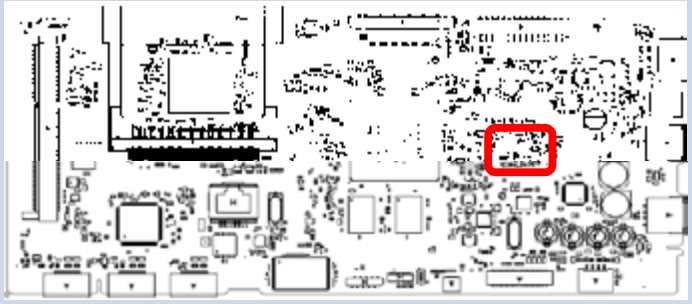
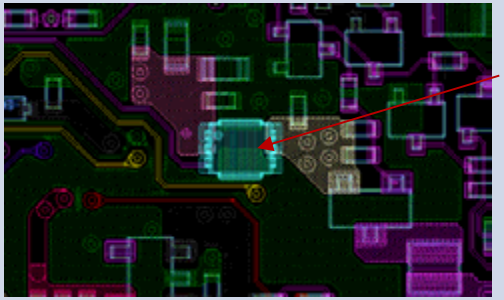
2.1-9 - NO POWER: AYU2/ AYU2L REPLACEMENT

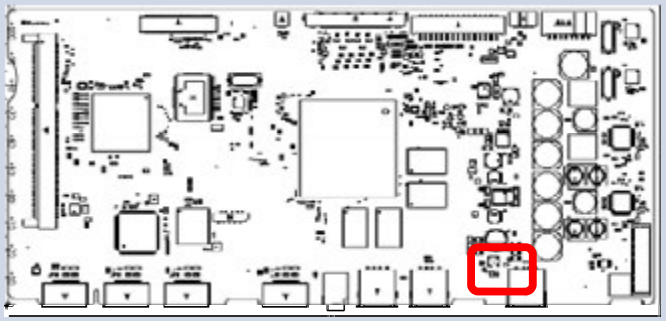
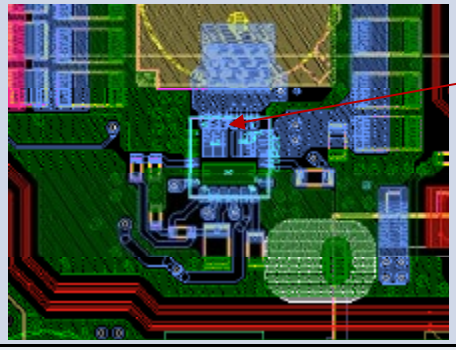
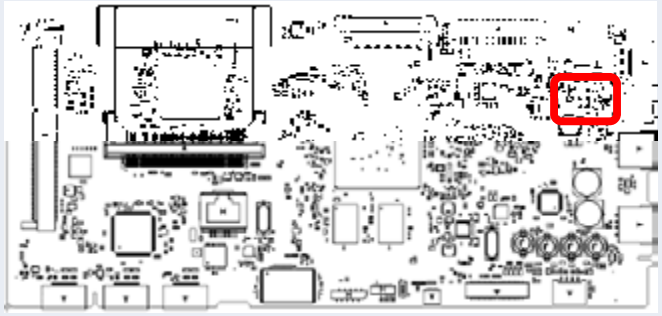
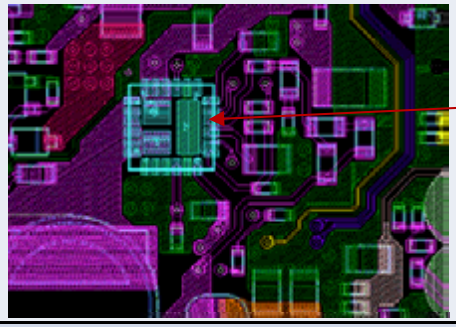


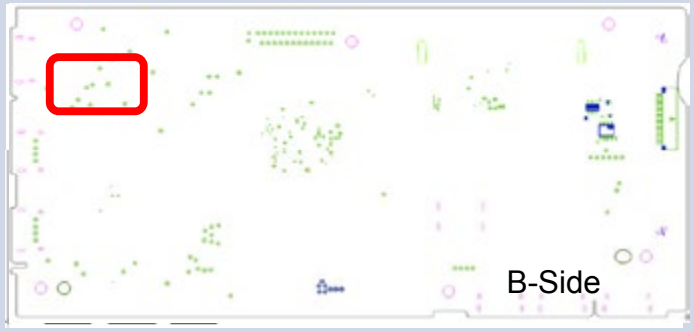
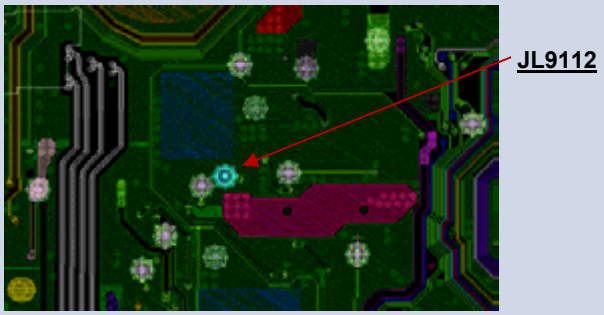
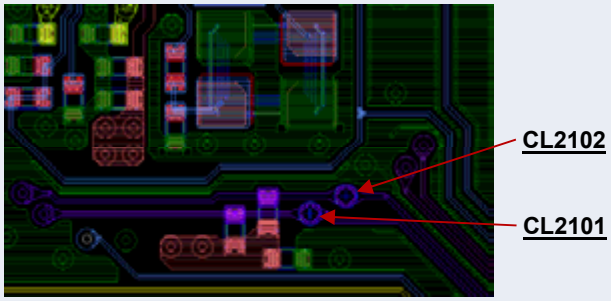
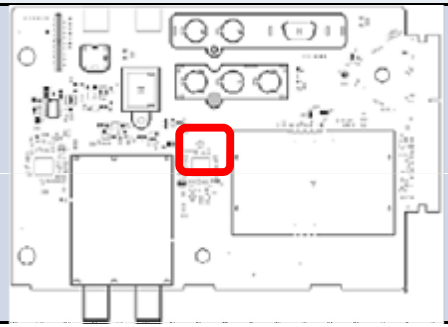
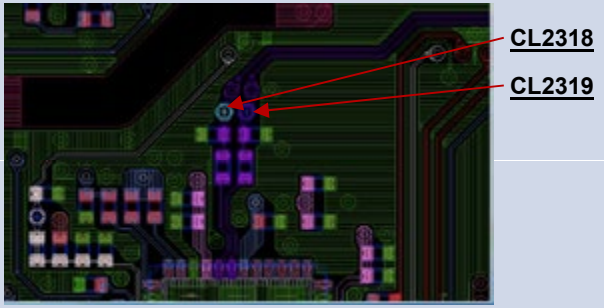
2.2-1 - LED BLINKING: 3X DC ALERT & COMMUNICATION ERROR

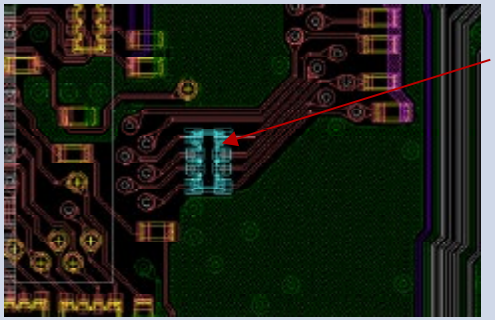
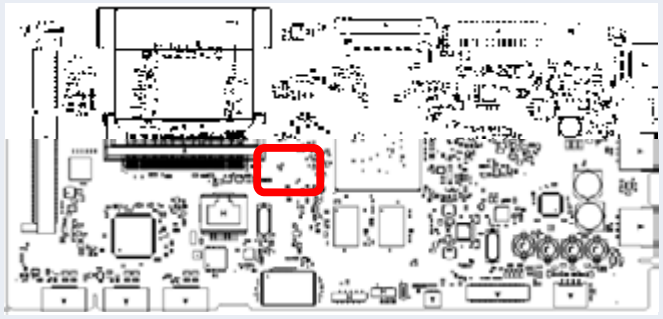
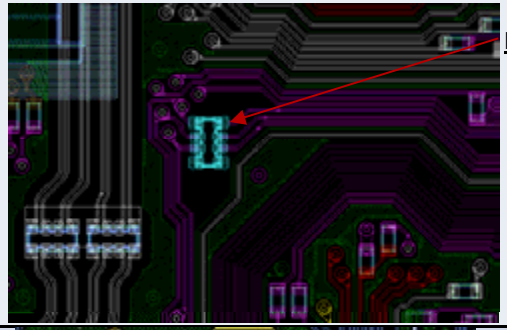
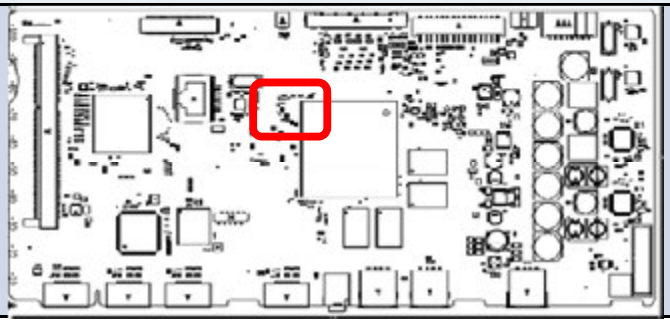
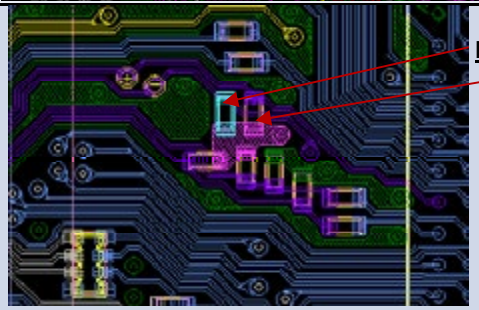


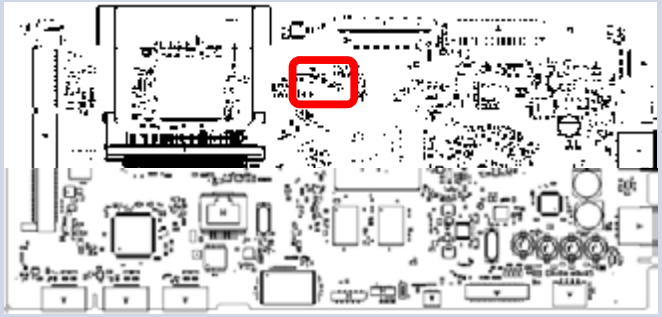
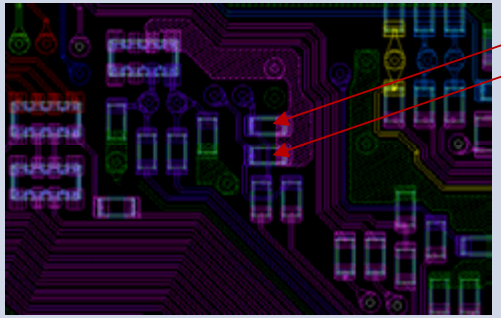
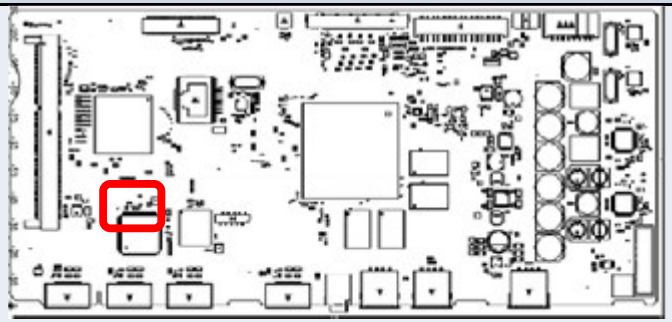
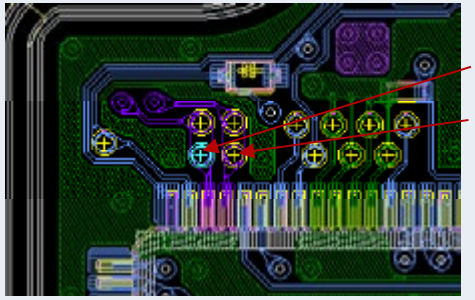
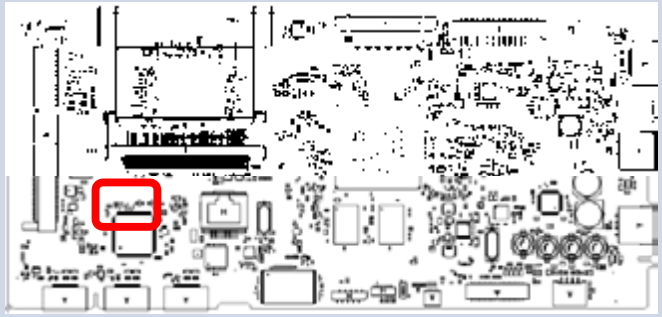
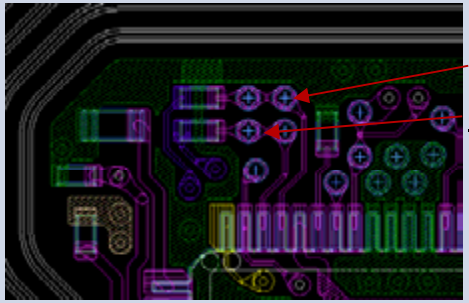
Board Name	Board PWB (A side)	Detail
BAX (F9104)		
BAXL (F9104)		
BAX (IC9104)		

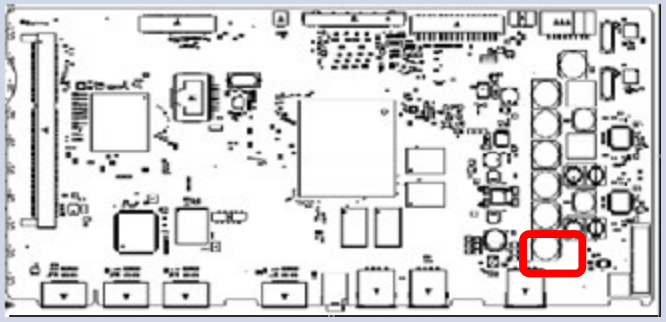
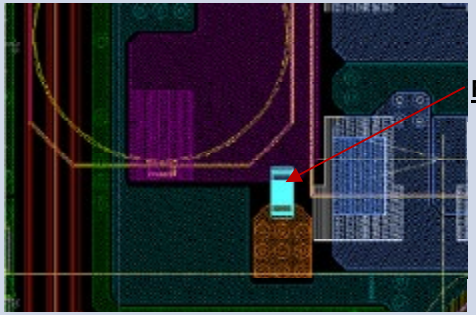
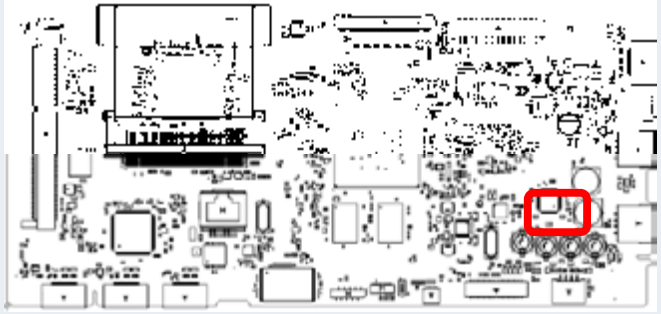
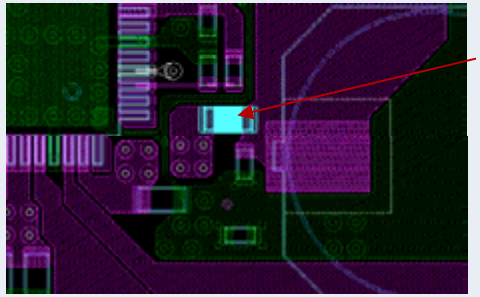
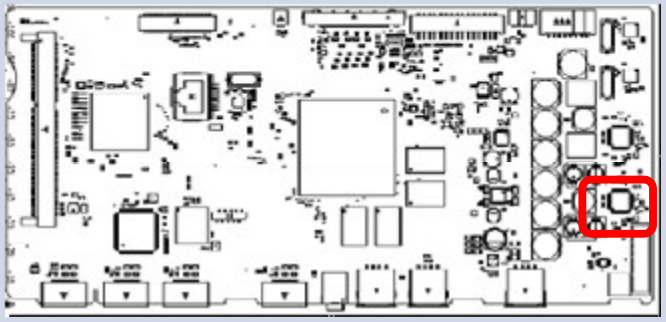
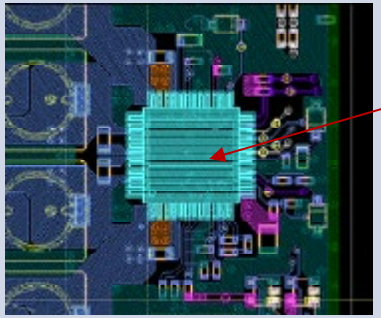
Board Name	Board PWB	Detail
BAXL (IC9104)		
BAX (IC9201)		
BAXL (IC9201)		

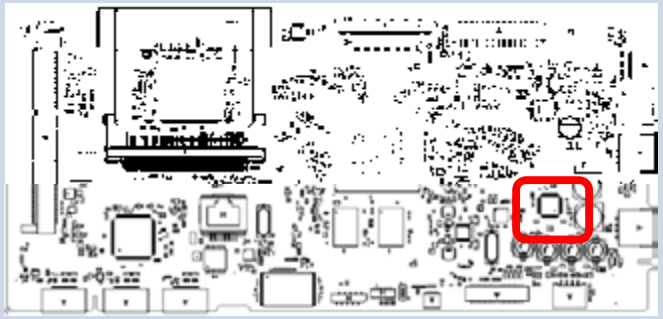
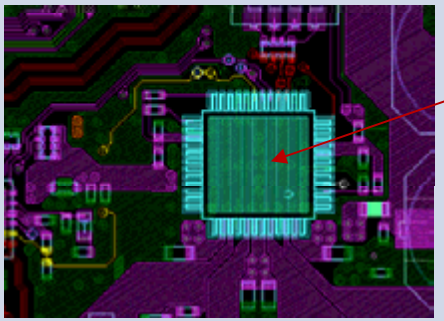
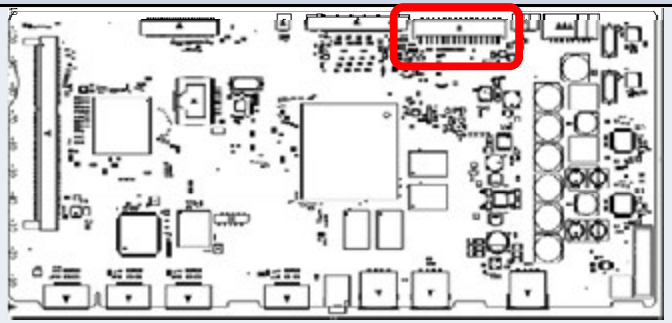
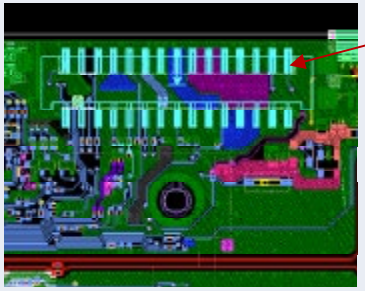
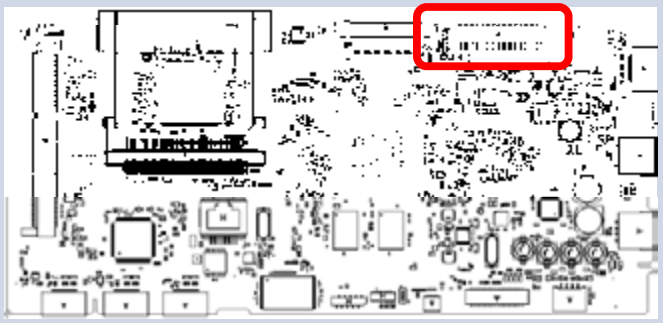
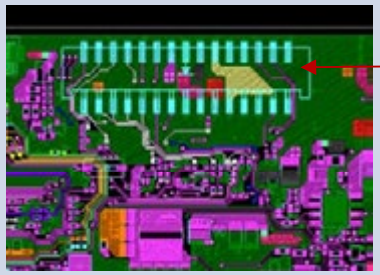
Board Name	Board PWB (A side)	Detail
BAX (IC9102)		
BAXL (IC9101)		
BAX (JL9113)		

Board Name	Board PWB	Detail
BAXL (JL9112)		
TU-S (CL2101, CL2102)		
TU-W (CL2318, CL2319)		

Board Name	Board PWB (A side)	Detail
BAX (RB8522)		
BAXL (RB8517)		
BAX (R8502, R8506)		

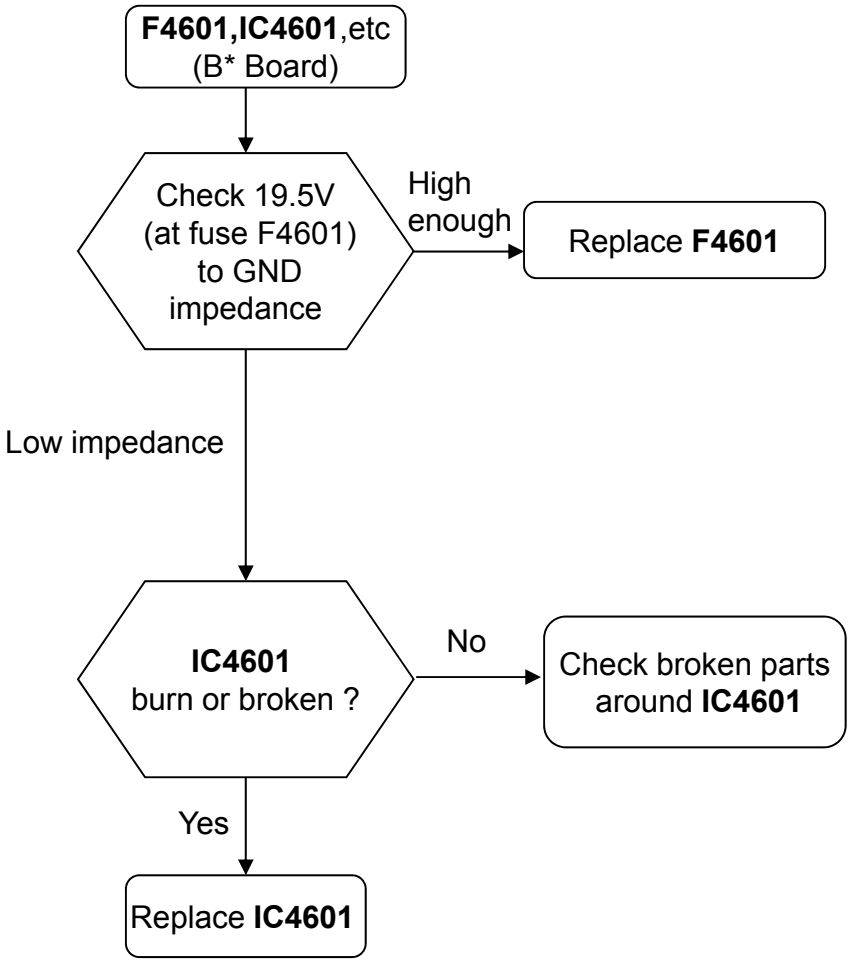
Board Name	Board PWB (A side)	Detail
BAXL (R8546, R8547)		
BAX (CL5023, CL5024)		
BAXL (CL5023, CL5024)		

Board Name	Board PWB (A side)	Detail
BAX (F4401)		
BAXL (F4601)		
BAX (IC4901)		

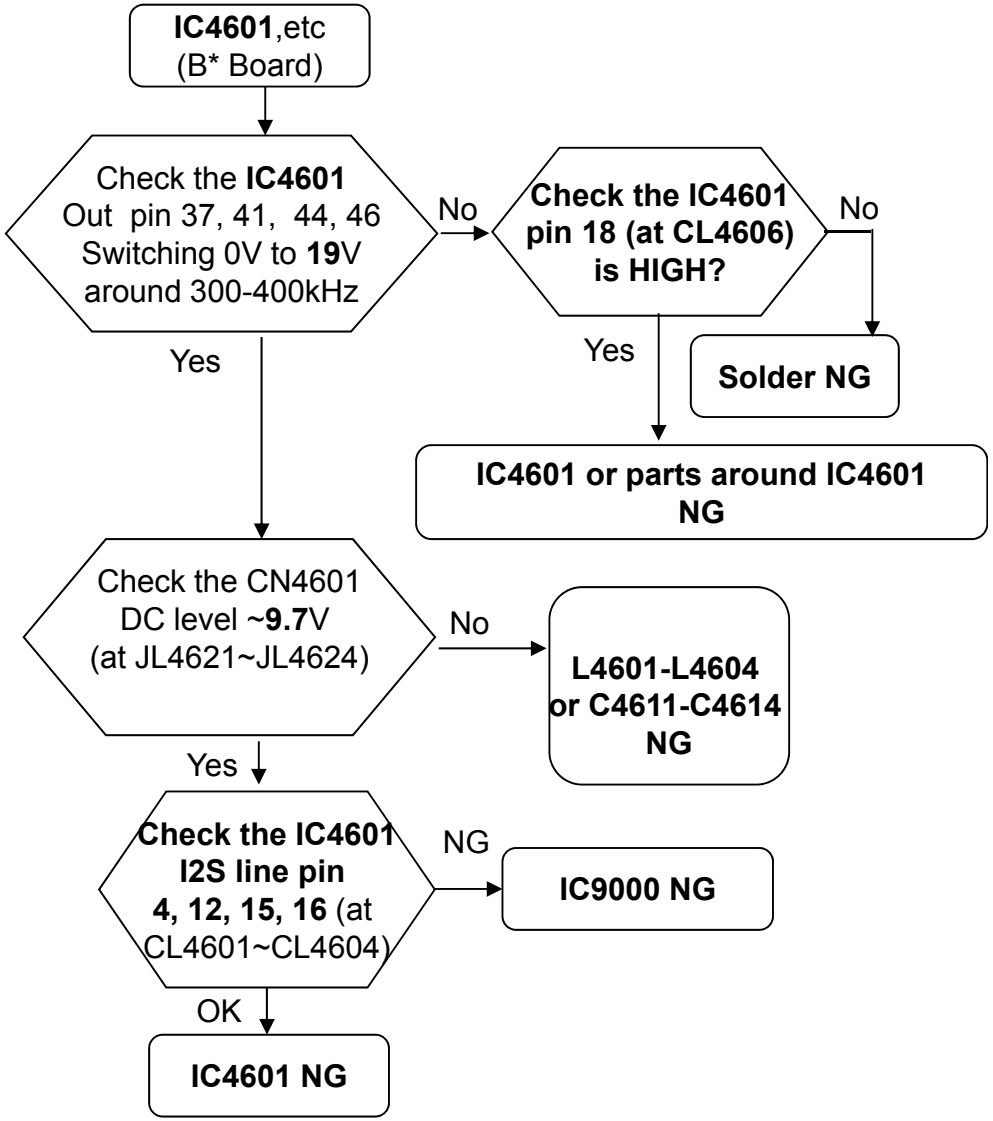
Board Name	Board PWB (A side)	Detail
BAXL (IC4601)		
BAX (CN9101)		
BAXL (CN9101)		

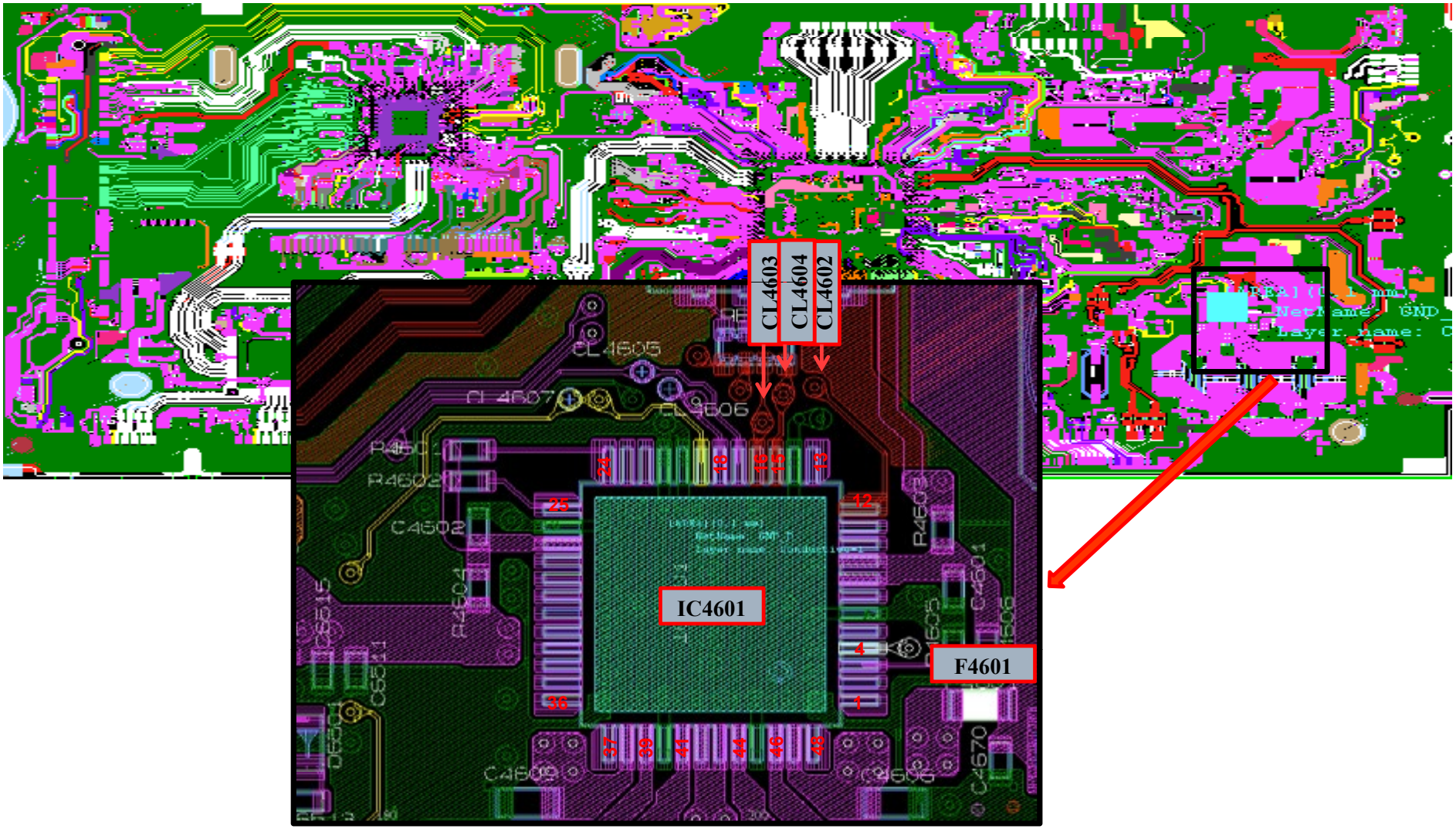
2.2-2 - LED BLINKING: 3X(AUDIO ERROR) - BAX-L(HE-L,HM,HE-H) BOARD ONLY

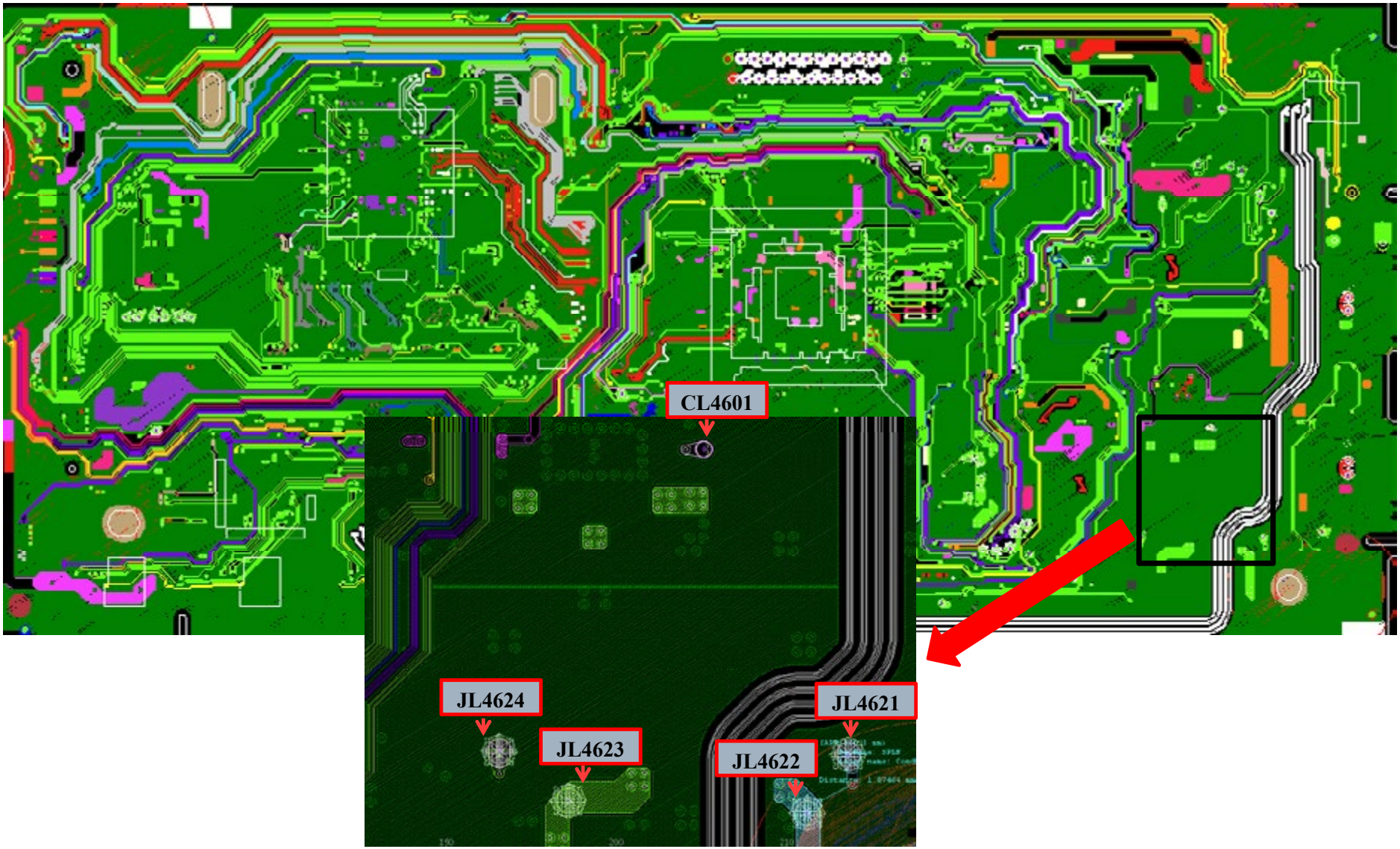
#2



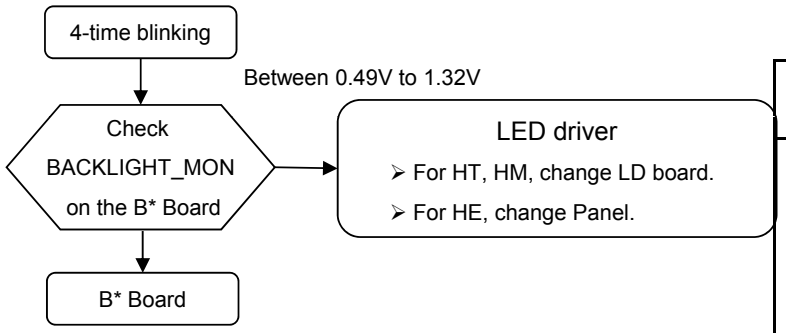
#3

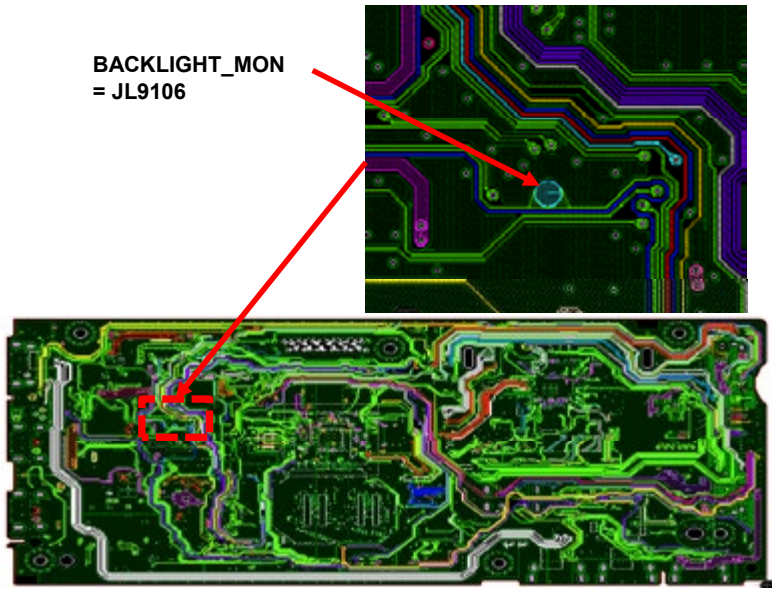



CL4603
CL4604
CL4602
IC4601
F4601

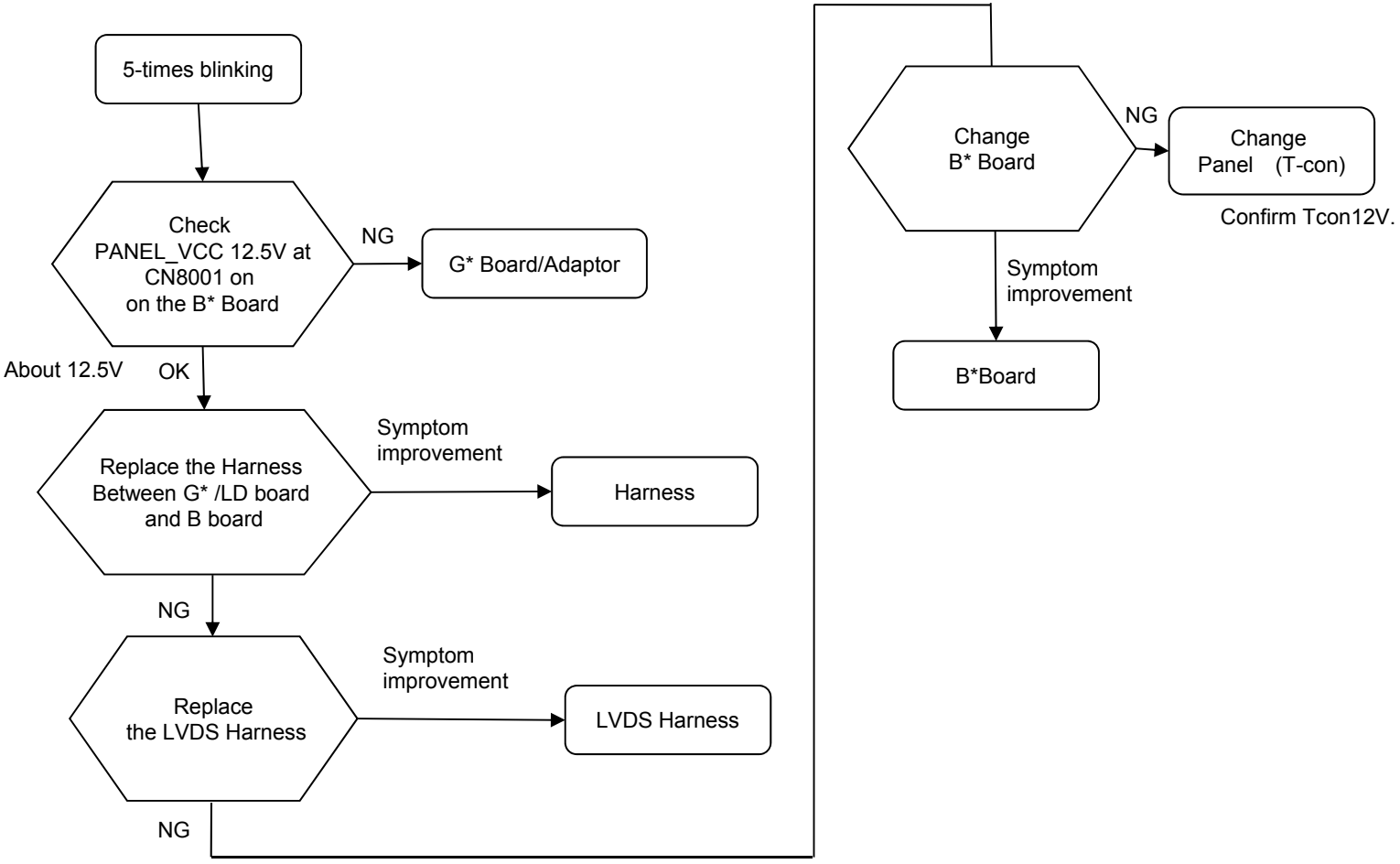

CL4601
JL4624
JL4623
JL4622
JL4621

2.2-3 - LED BLINKING: 4X LED VOLTAGE ERROR



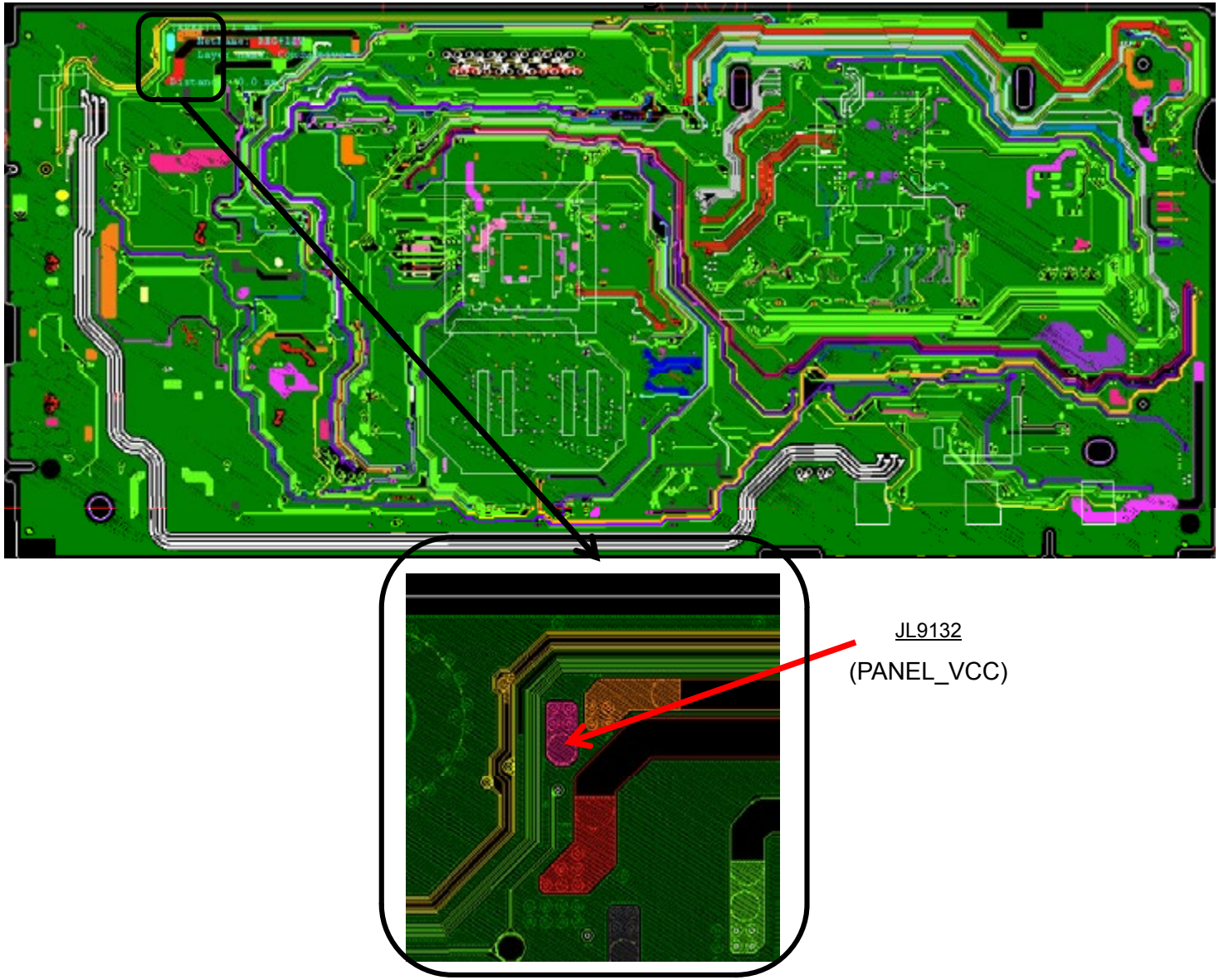
Board /Parts	Board PWB (BAX-L – B SIDE)
BAXL BACKLIGHT_MON = JL9106	

2.2-4 - LED BLINKING: 5X T-CON ERROR



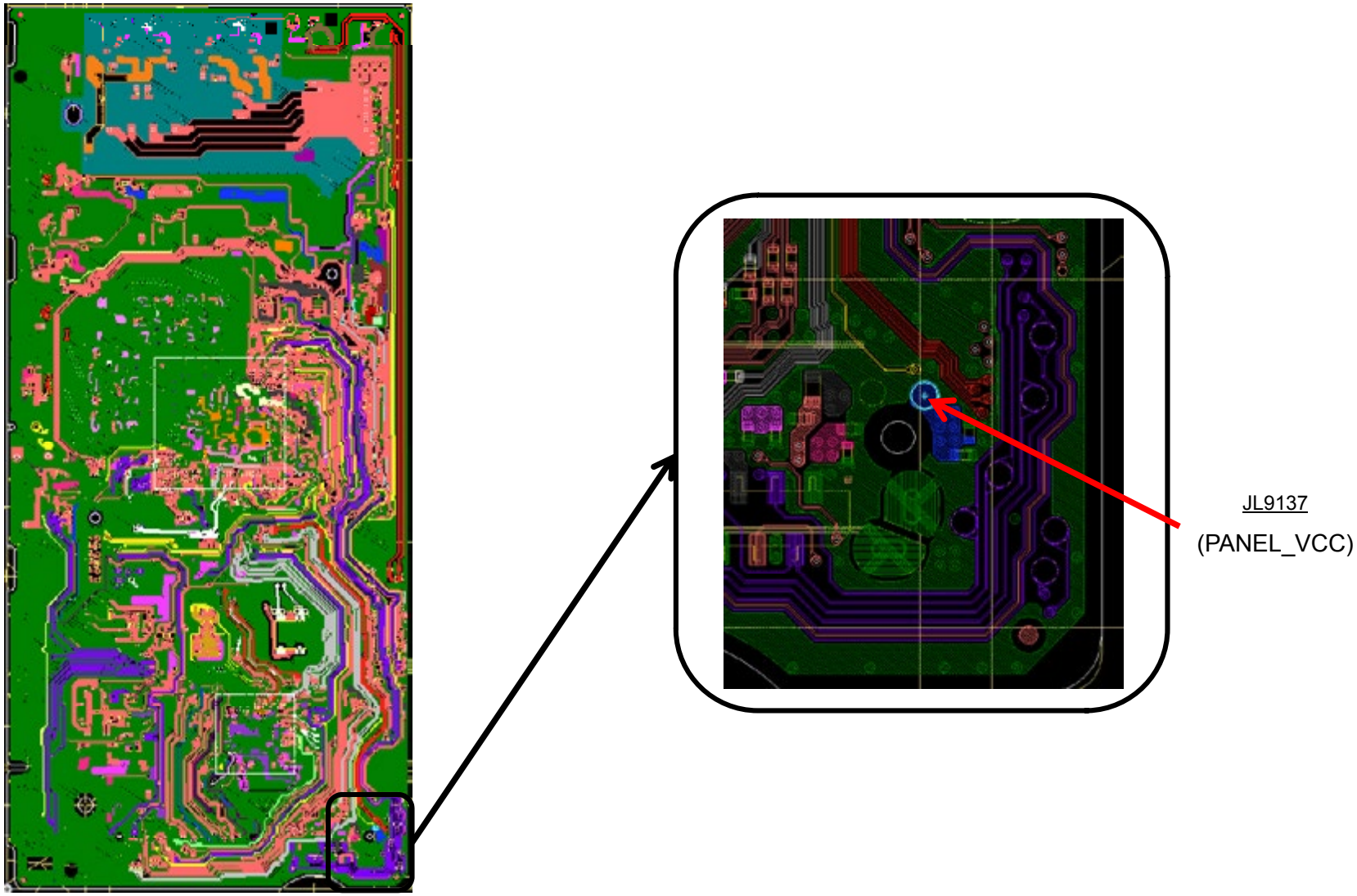
BAX-L BOARD (Side-B)

BAX-L PROBING POINTS

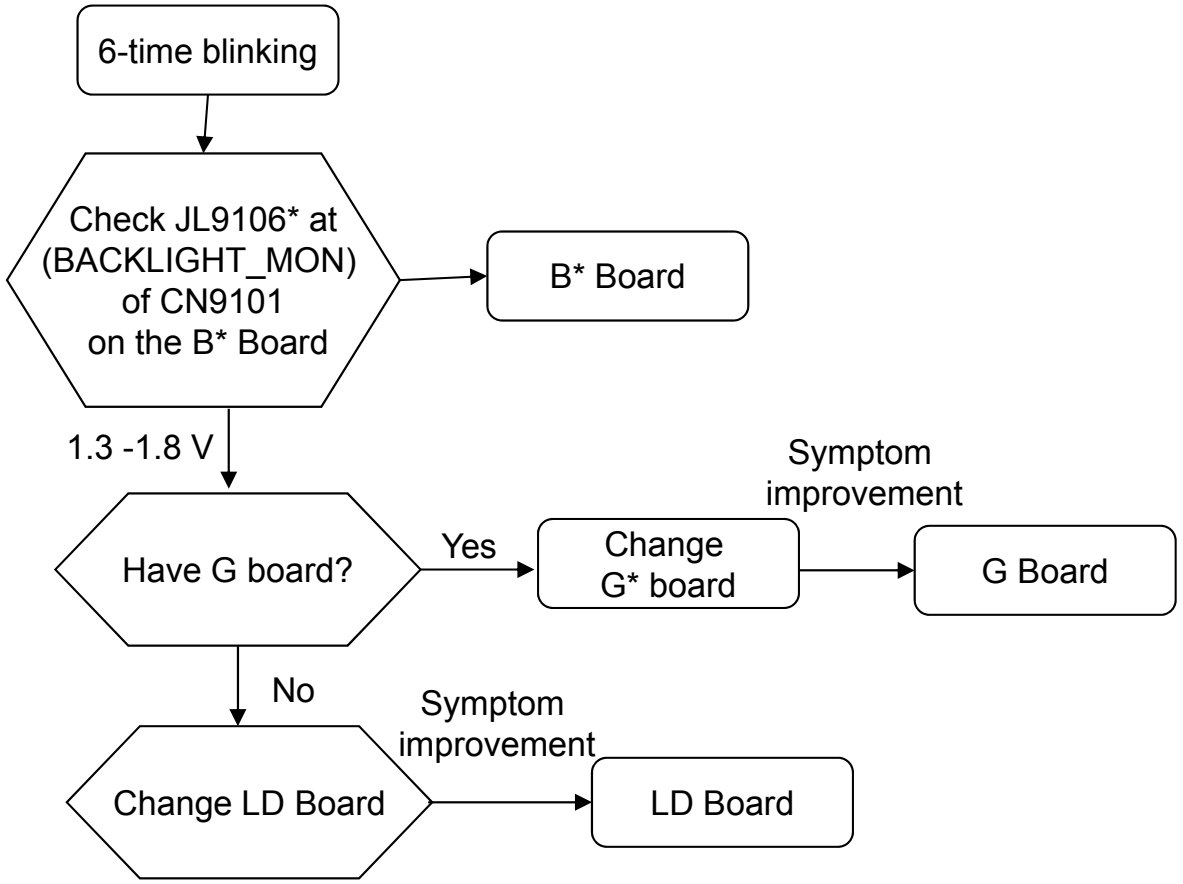


BAX BOARD (Side-B)

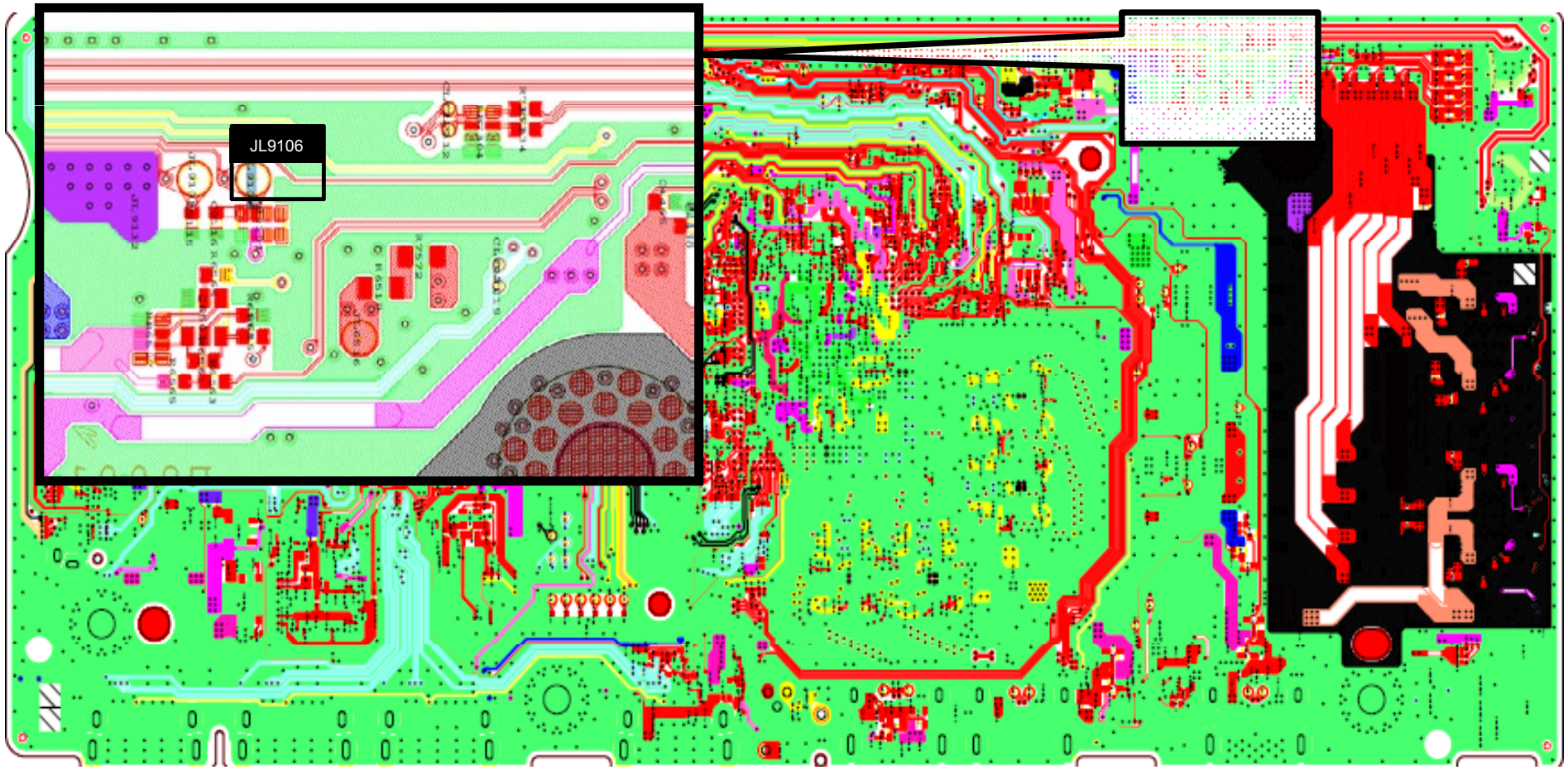
BAX PROBING POINTS



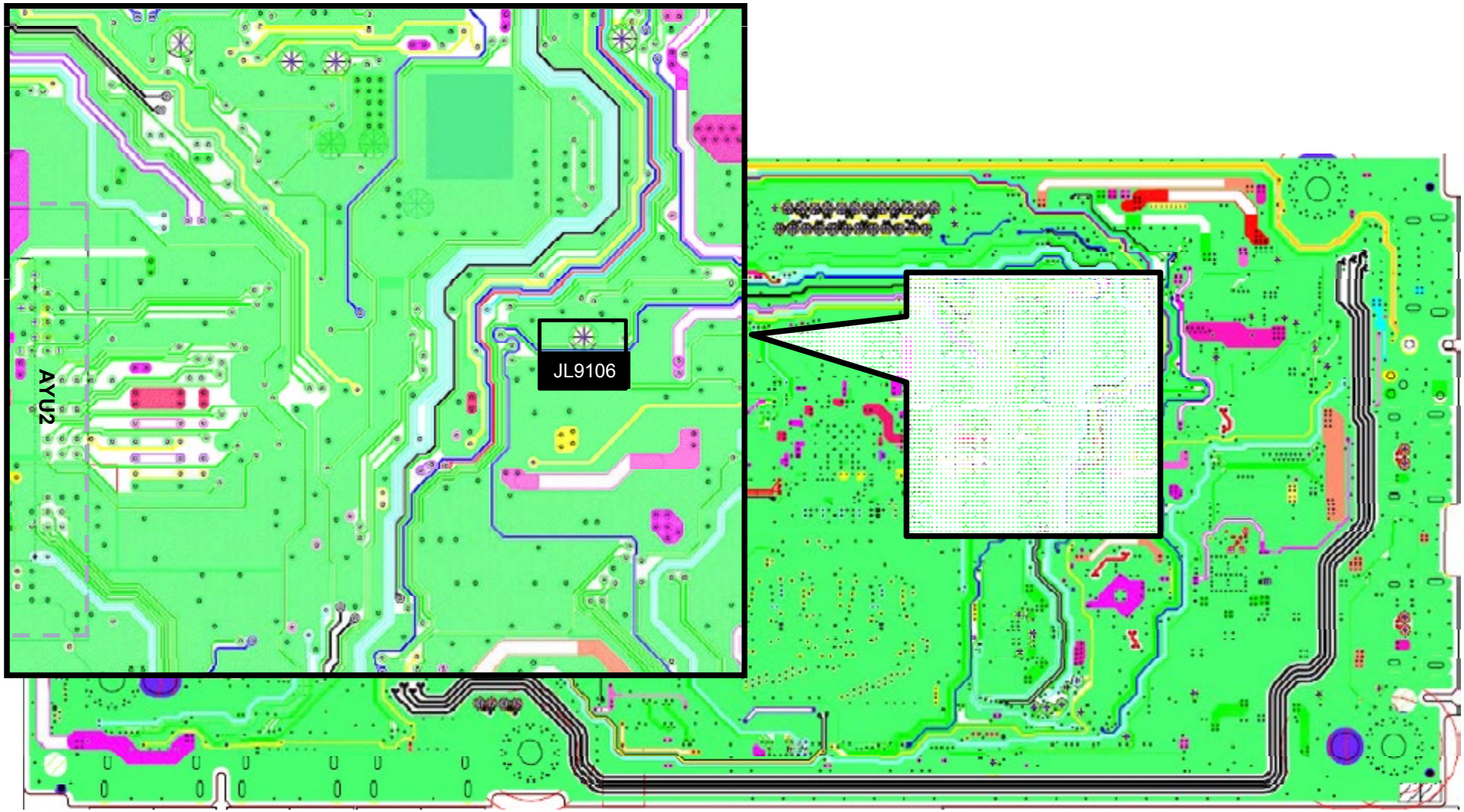
2.2-5 - LED BLINKING: 6X BACKLIGHT ERROR



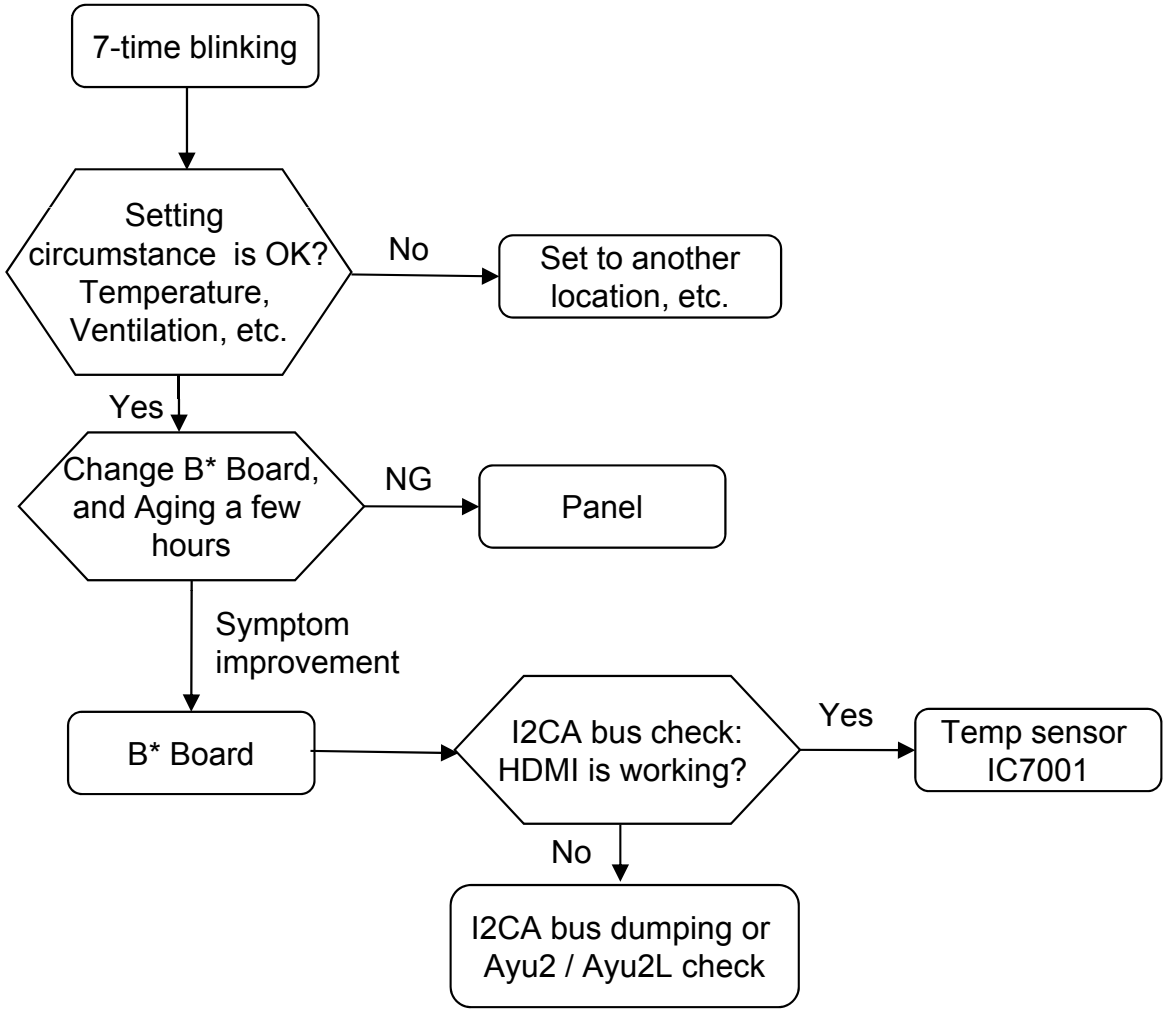
BAX BOARD (Side-B)

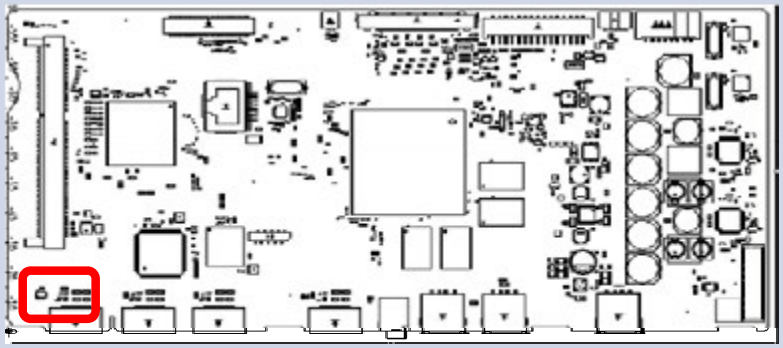
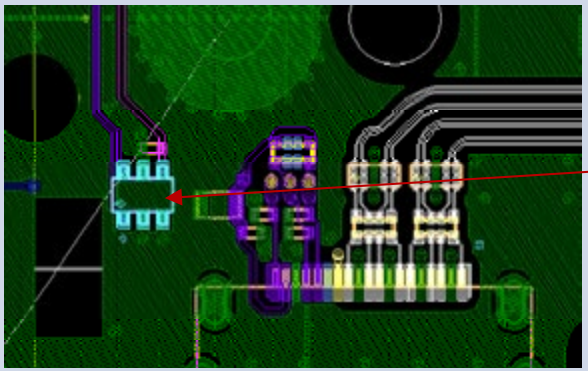
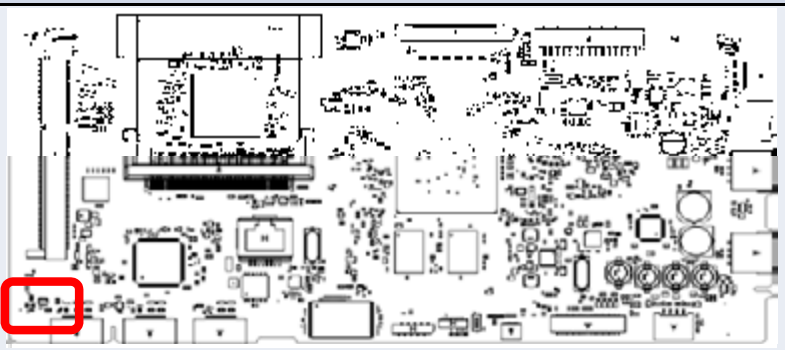
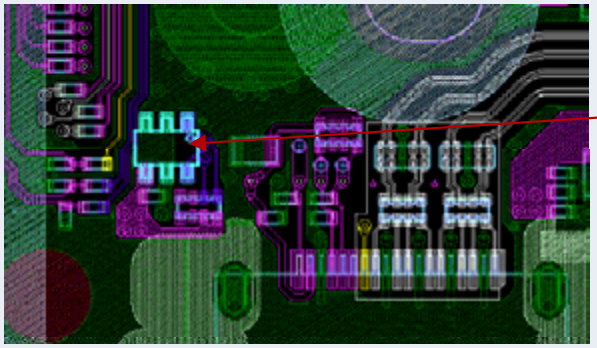


BAX-L BOARD (Side A)

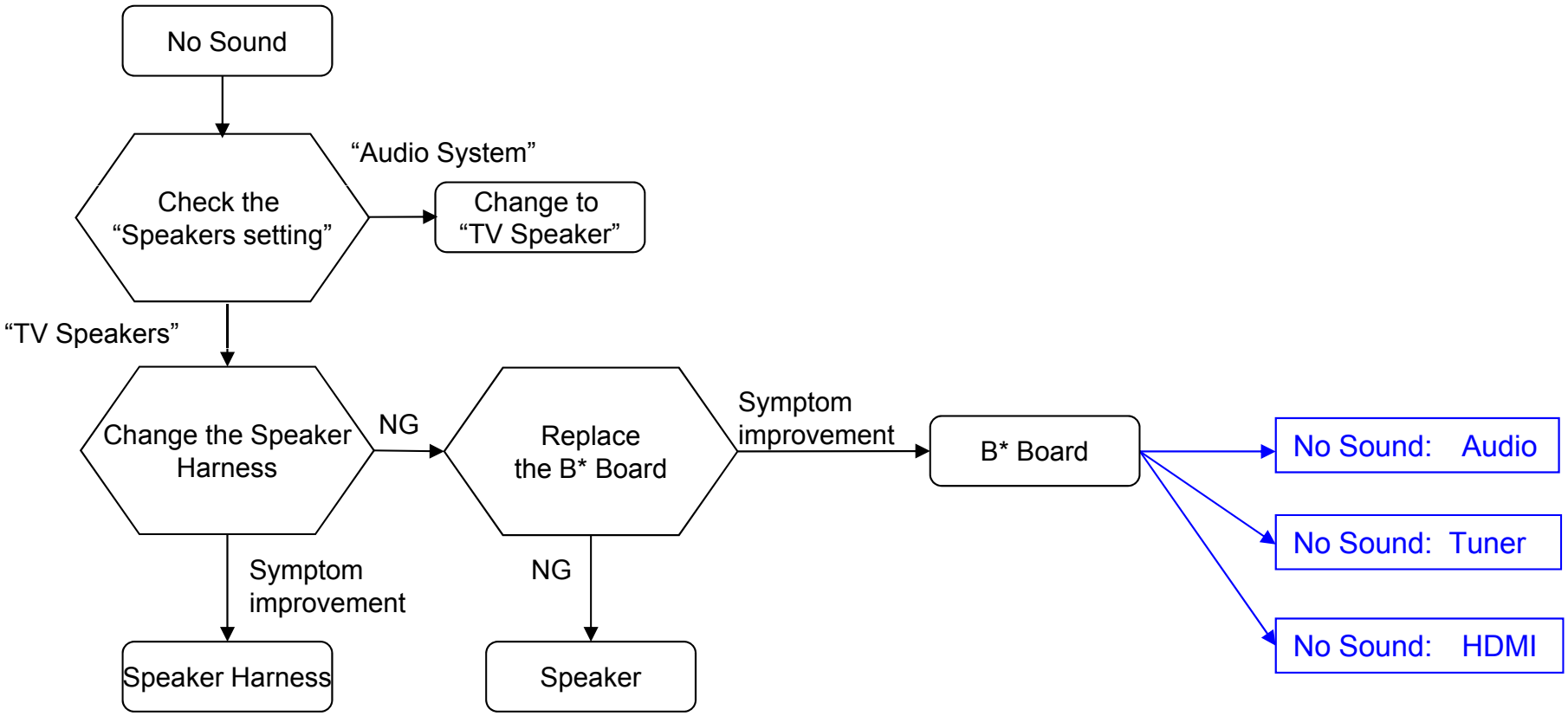


2.2-6 - LED BLINKING: 7X TEMPERATURE ERROR

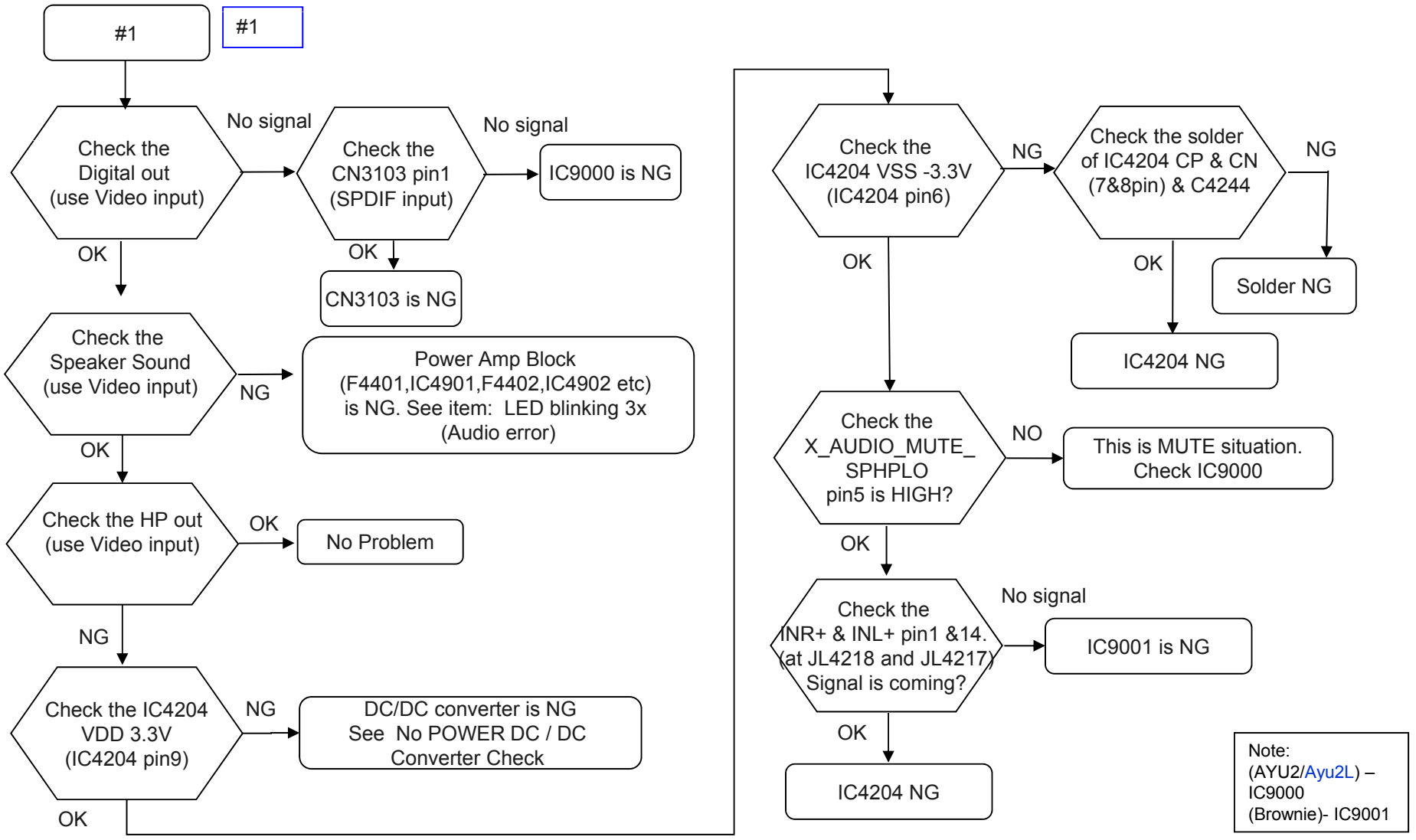


Board Name	Board PWB (A side)	Detail
BAX (IC7001)		
BAXL (IC7001)		

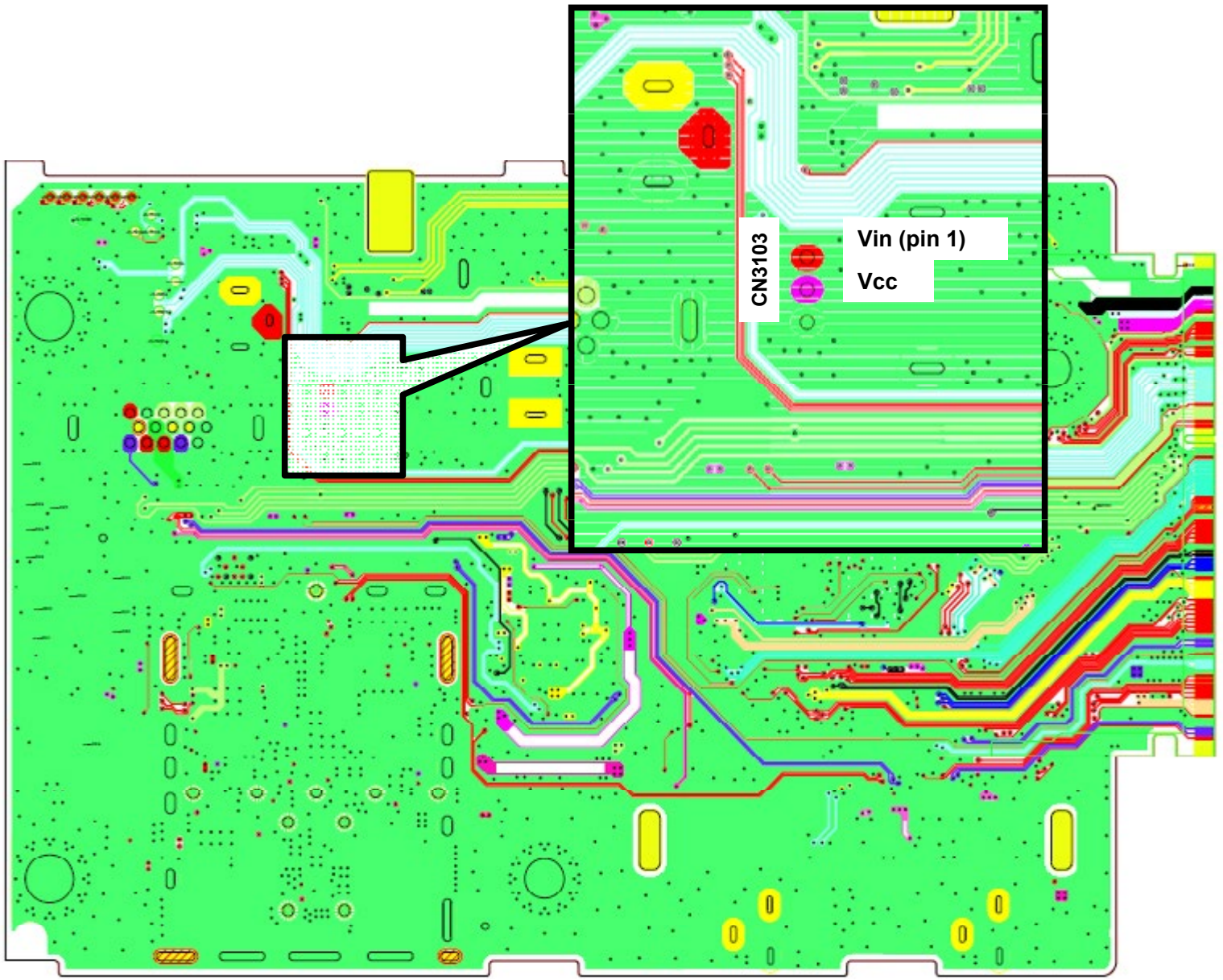
2.3-1 - NO SOUND:GENERAL



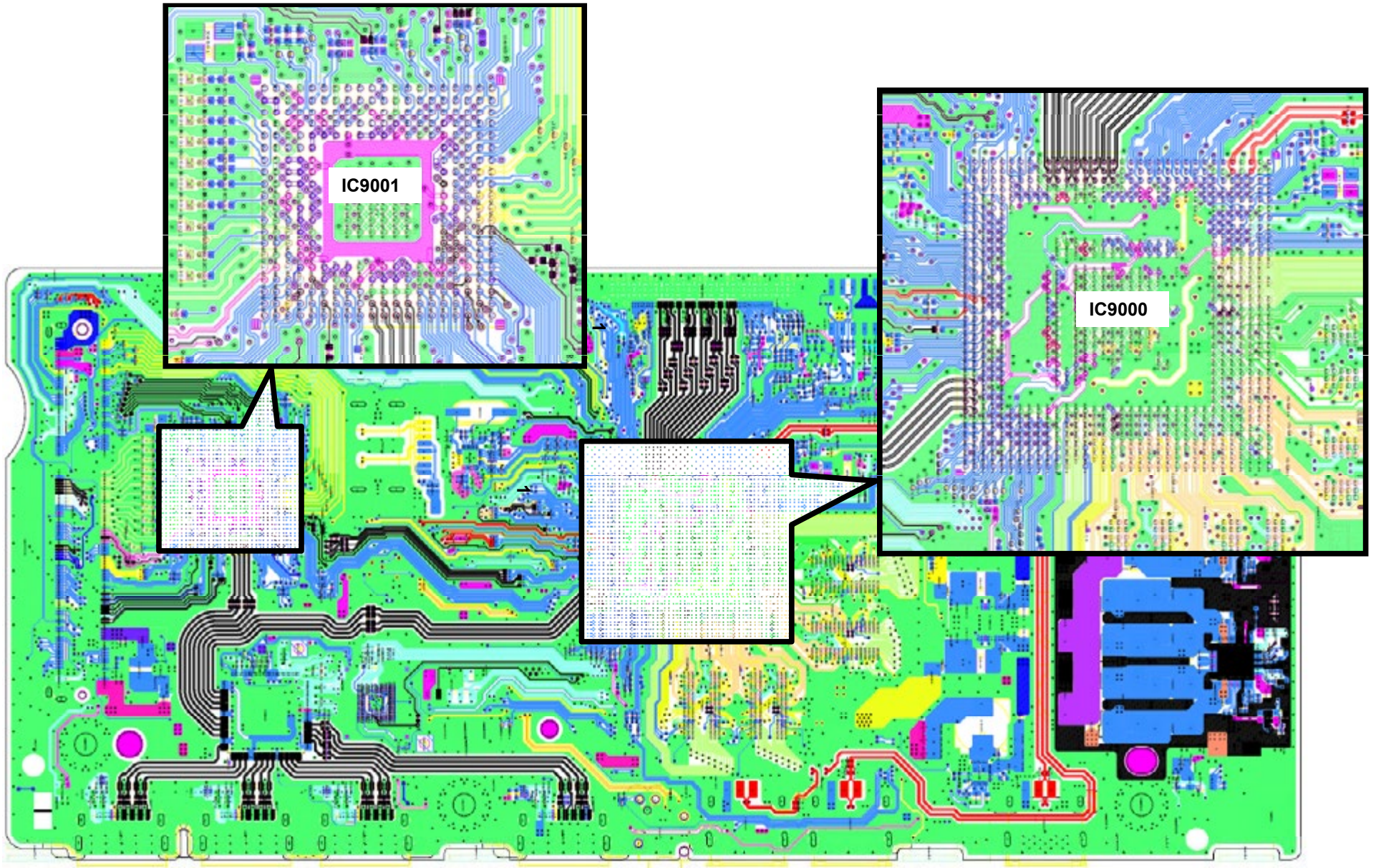
2.3-2 - NO SOUND: AUDIO (FOR ALL MODELS) TUS AND BAX (HT-L, HT-H, HT-H65, HS)



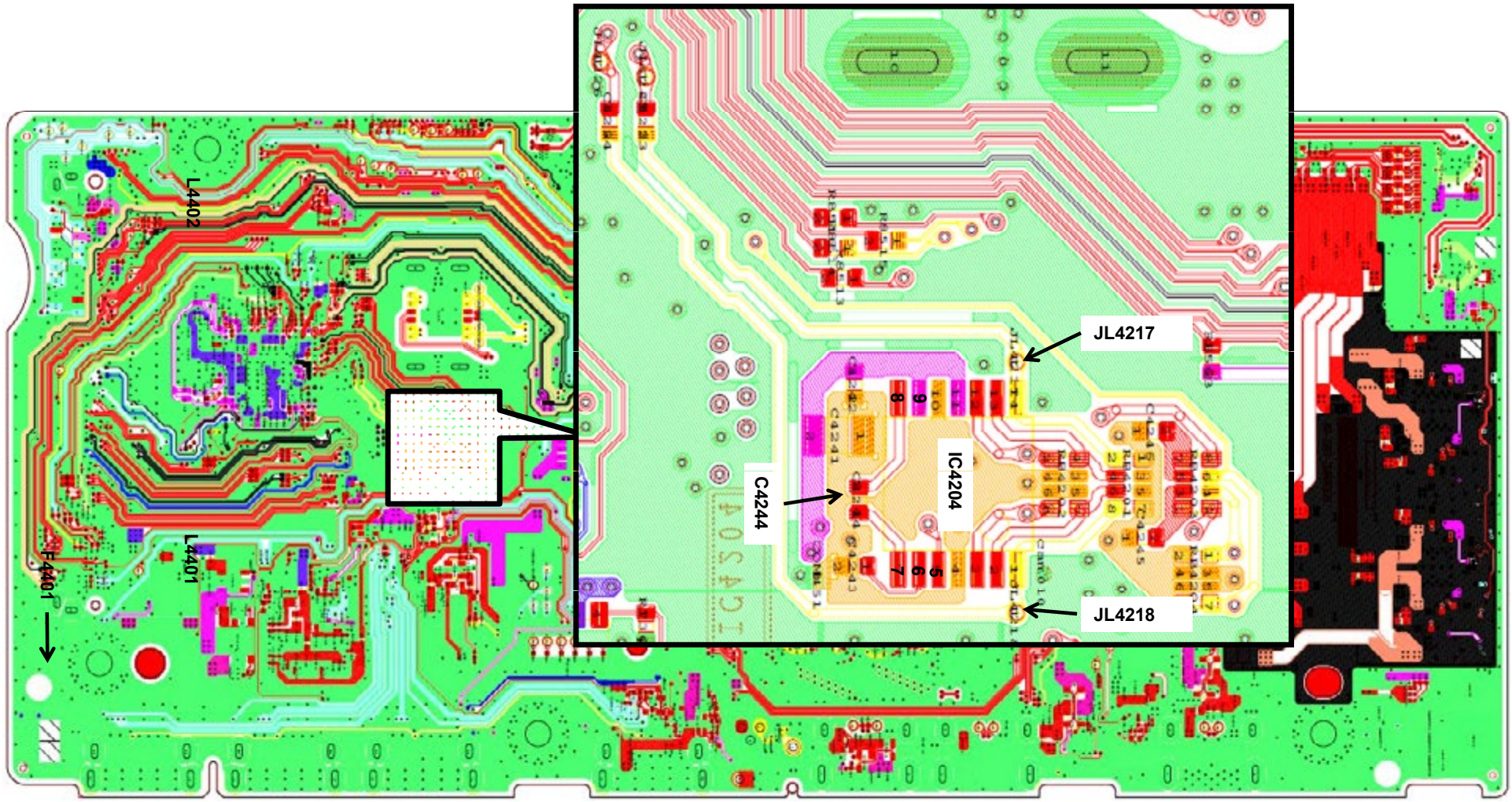
TUS BOARD (Side B)



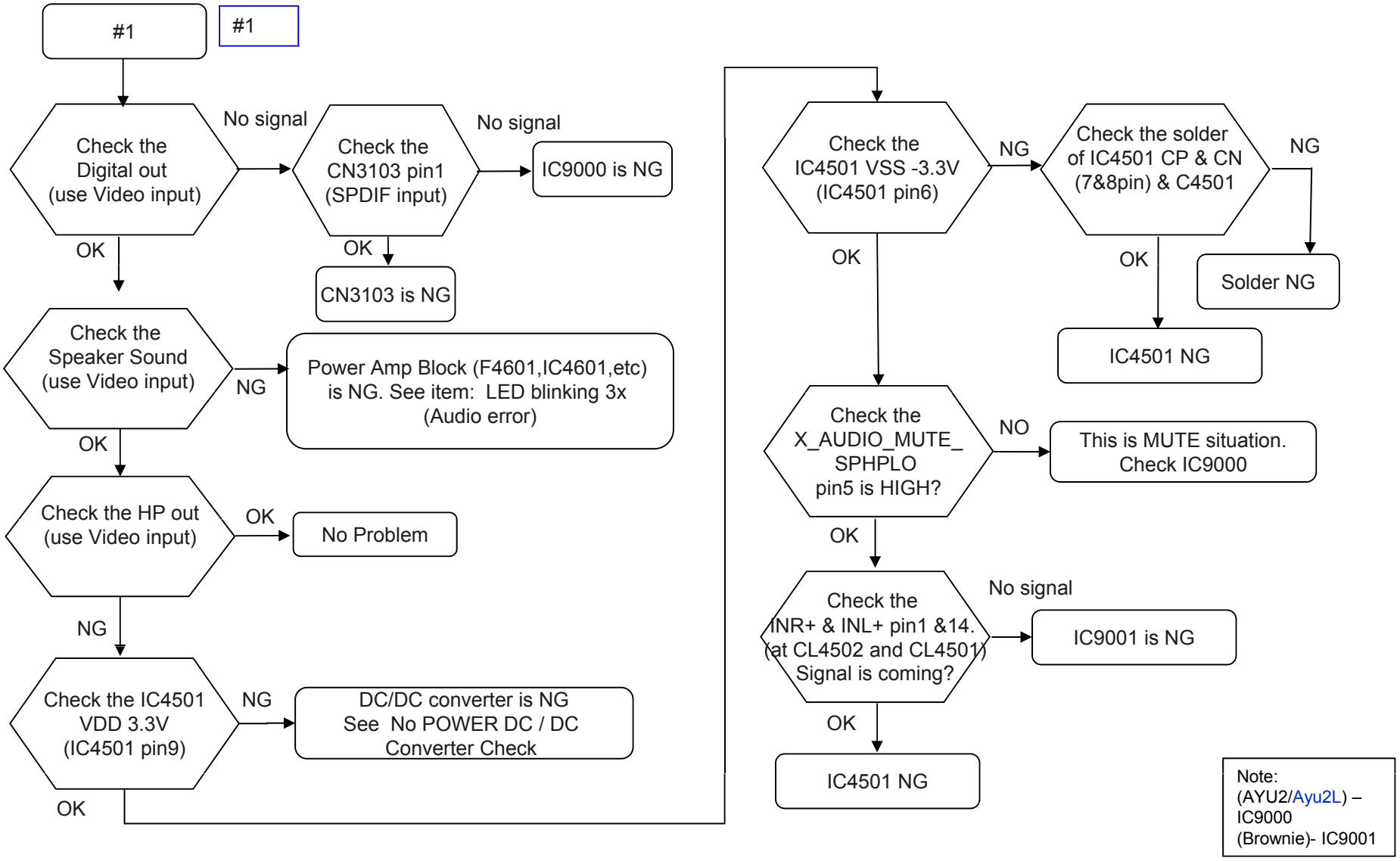
BAX BOARD (Side A)



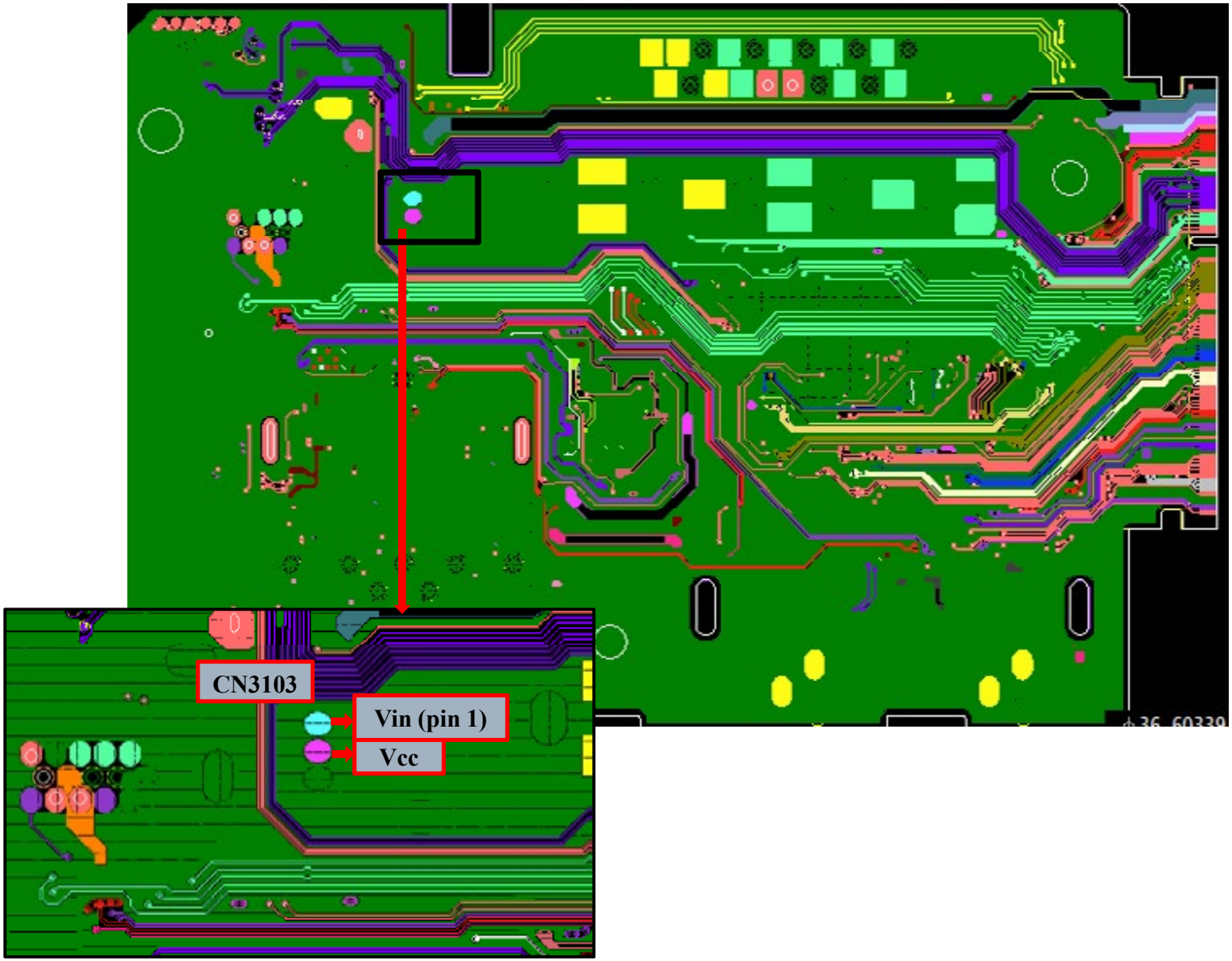
BAX BOARD (Side B)



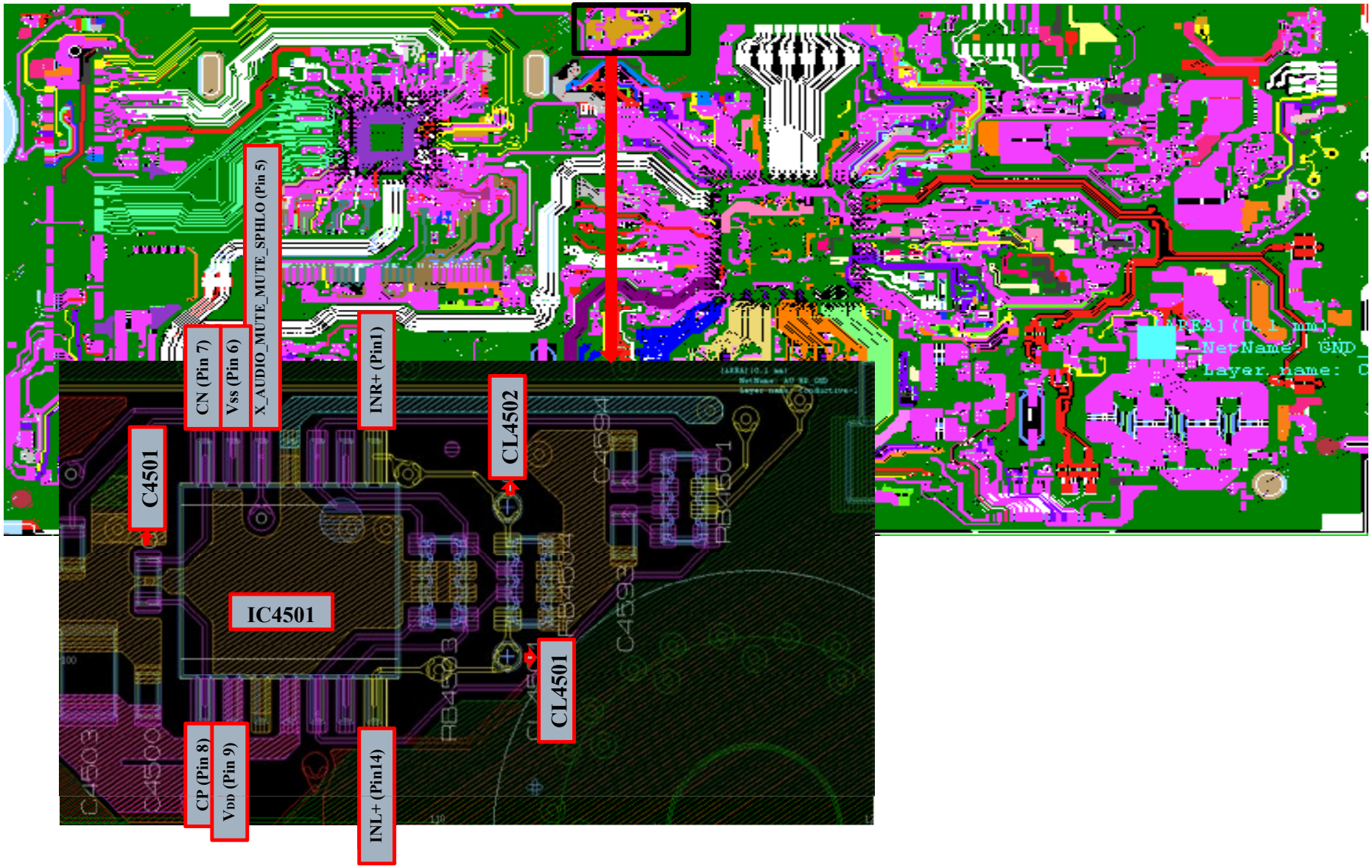
2.3-3 - NO SOUND: AUDIO (FOR ALL MODELS) BAX-L (HE-L, HM, HE-H) BOARD ONLY



TUS BOARD (Side B)



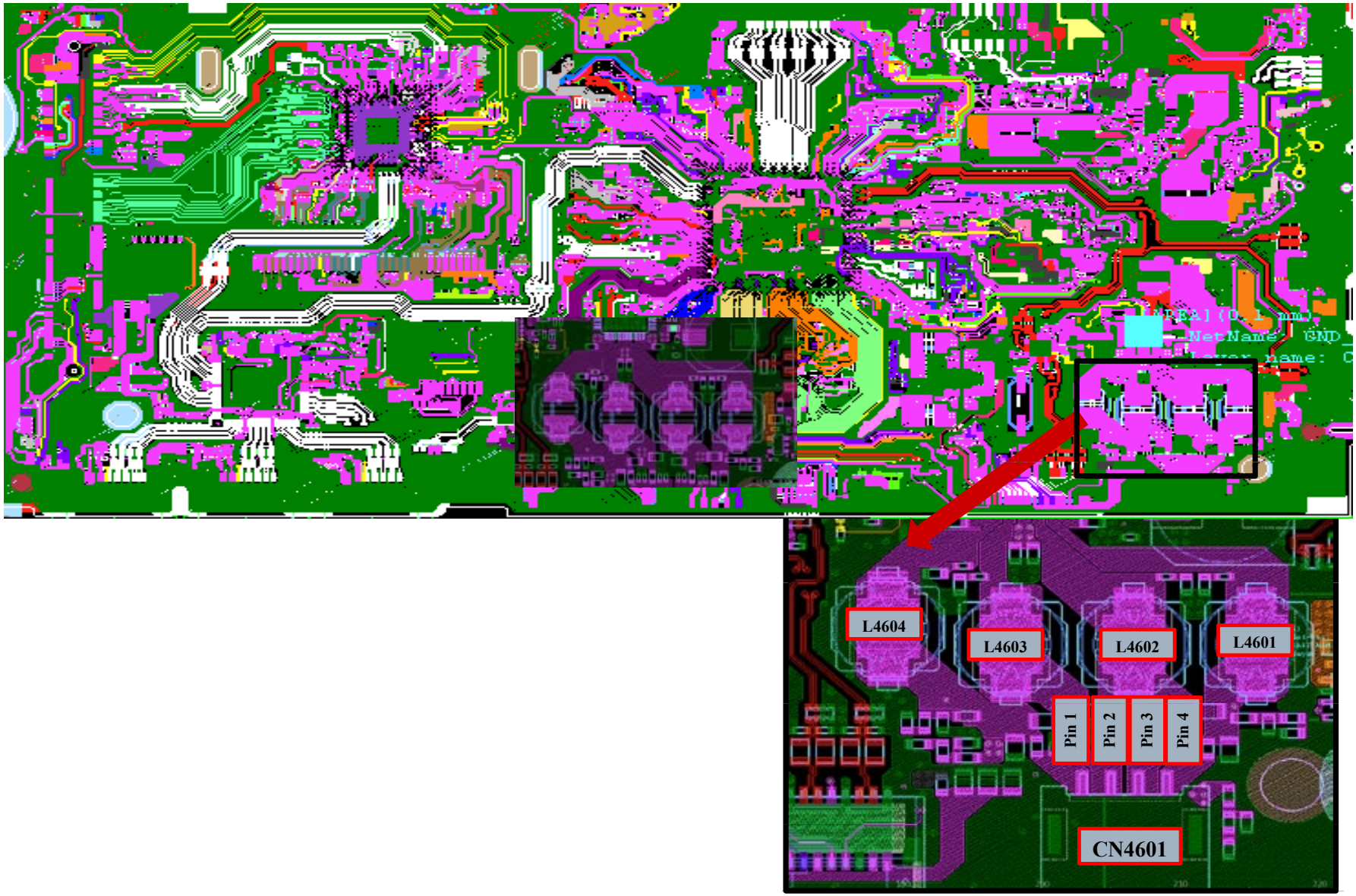
BAX-L BOARD (Side A)



2.3-4 - NO SOUND: MAIN BOARD POWER OFF CHECKING (MAIN SPEAKER L & R) FOR BAX-L (HEL, HEH, HM) BOARD ONLY

No	Checking Item	OK	NG
1	Check fuse F4601	Fuse short	Fuse open
2	Check connectivity audio Vcc to GND C4606 – GND C4607 – GND C4608 – GND C4609 – GND	No short to GND	Either 1 short to GND
3	Check connectivity audio +3.3V_MAIN to GND (only for BAX-L board) IC4601 (Pin8) – GND IC4601 (Pin27) – GND	No short to GND	Either 1 short to GND
4	Check connectivity audio output to GND. CN4601 Pin 1 – GND Pin 2 – GND Pin 3 – GND Pin 4 – GND	No short to GND	Either 1 of pin short to GND
5	Check connectivity audio output path (only for BAX-L board): L4601 (near to IC side) – CN4601 Pin4 L4602 (near to IC side) – CN4601 Pin3 L4603 (near to IC side) – CN4601 Pin2 L4604 (near to IC side) – CN4601 Pin1	Must have good connection (~0 Ω)	Open circuit.

BAX-L BOARD (Side A)



2.3-5 - NO SOUND: MAIN BOARD POWER OFF CHECKING (MAIN SPEAKER L & R) FOR BAX-L (HEL, HEH, HM) BOARD ONLY

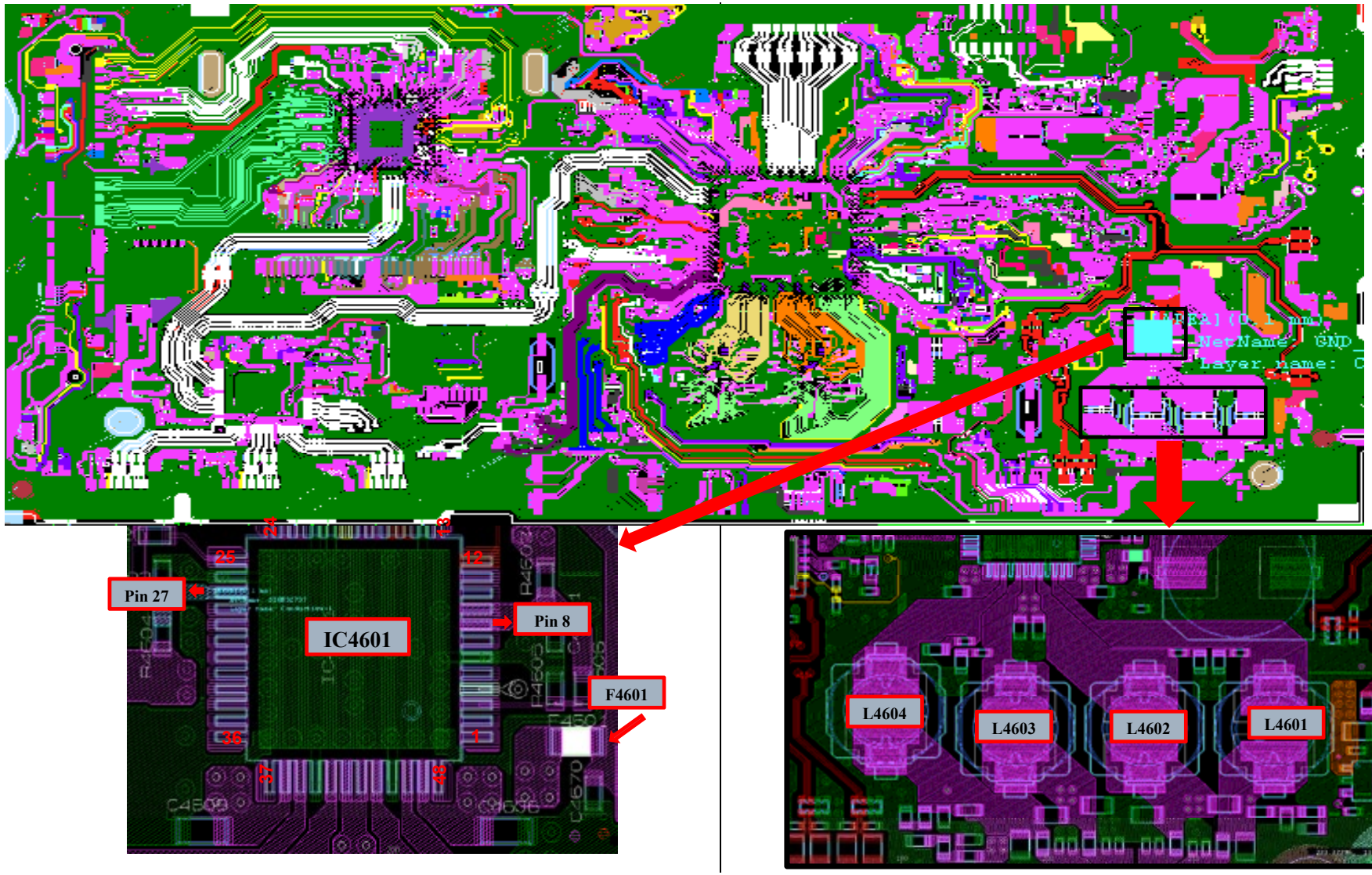
No	Checking Item	OK	NG	If ← NG	If ← NG
1	Check IC4601 side-terminal of L4601,L4602, L4603,L4604	Switching Freq = 384kHz or 768KHz ±20KHz Vrms = don't care	No switching frequency at either one of the CL	Go to next checking.	
2	Check F4601 MainSP (for BAX-L only)	V(before fuse) = 12.5V ± 0.5V V(after fuse) = 12.5V ± 0.5 V	No voltage.	Check fuse broken? Check CN9101 Pin 8 &10 got 12.5V?	Change fuse (5A). Check power supply board audio VCC.
3	Check F4601 MainSP (BAX-L board only)	V(before fuse) = 19.5V ± 0.5V V(after fuse) = 19.5V ± 0.5V	No voltage.		Change fuse (5A). Check power supply board audio VCC.
4	Check IC4601 (Pin 8) and C4601 (Pin 27) (for BAX-L board only)	V(before fuse) = 3.3V ± 0.5V V(after fuse) = 3.3V ± 0.5V	No voltage.		Check +3.3V_MAIN supply.

2.3-5 - NO SOUND: MAIN BOARD POWER OFF CHECKING (MAIN SPEAKER L & R) FOR BAX-L (HEL, HEH, HM) BOARD ONLY

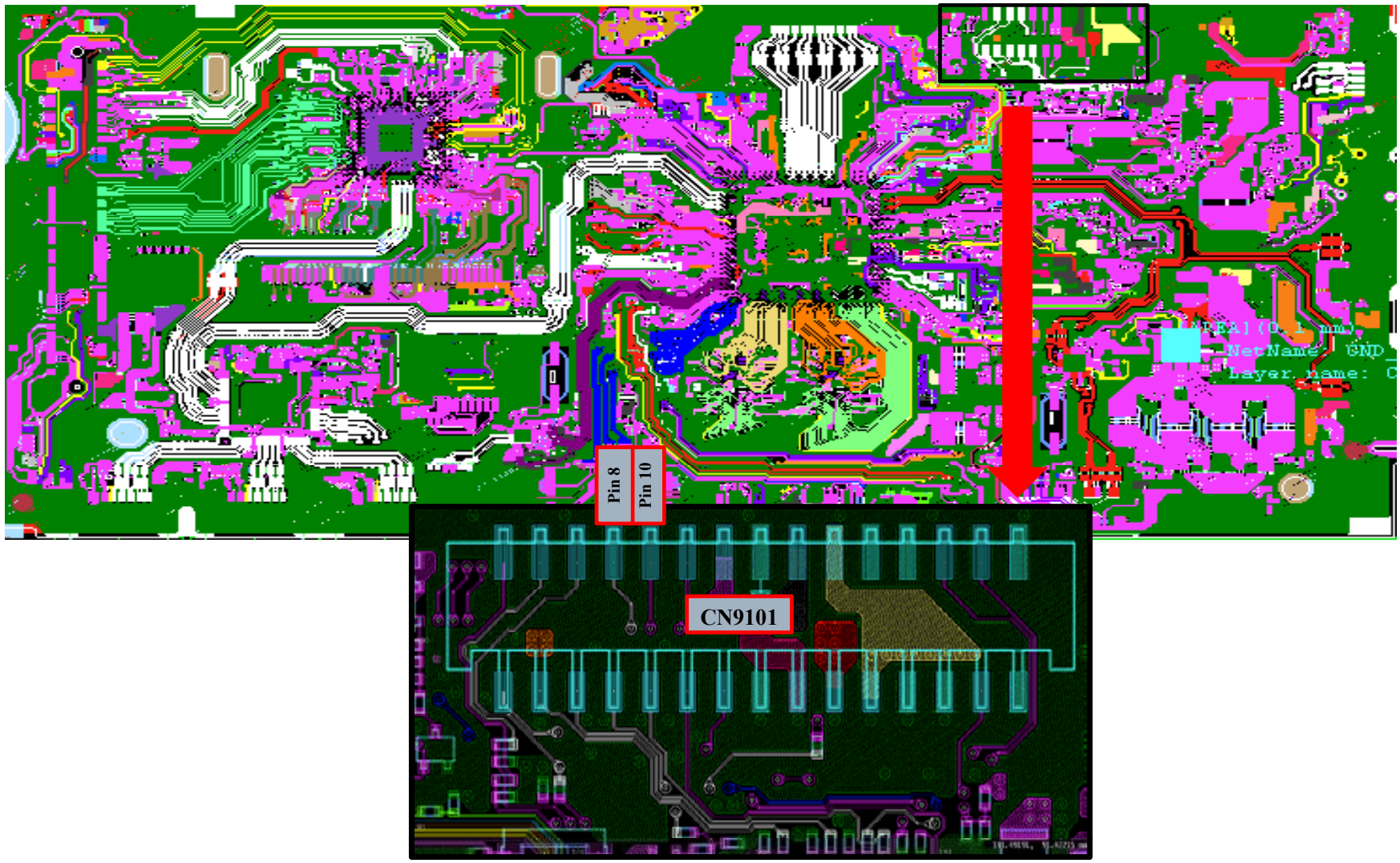
No	Checking Item	OK	NG	If ← NG	If ← NG
5	Check CL4605, CL4606, CL4607	Vdc = 3.3V ± 0.3V	Vdc < 0.8V	CL4606 NG, Check IC4601	CL4605,4607 NG, Check IC9000
6	Check CL4601, CL4602, CL4603, CL4604	CL4601 = 12.288MHz CL4603 = 3.072MHz CL4604 = 48KHz CL4602 = moving CLK All Vp-p ≈ 3.3V	If no frequency at CL4601, CL4603, CL4604, Ayu2 IC (IC9000) NG. If no frequency at CL4602, make sure sound source OK.	If sound source OK, but CL4602 = NG, Ayu2 IC (IC9000) NG.	

Note:
(AYU2/Ayu2L) – IC9000
(Brownie)- IC9001

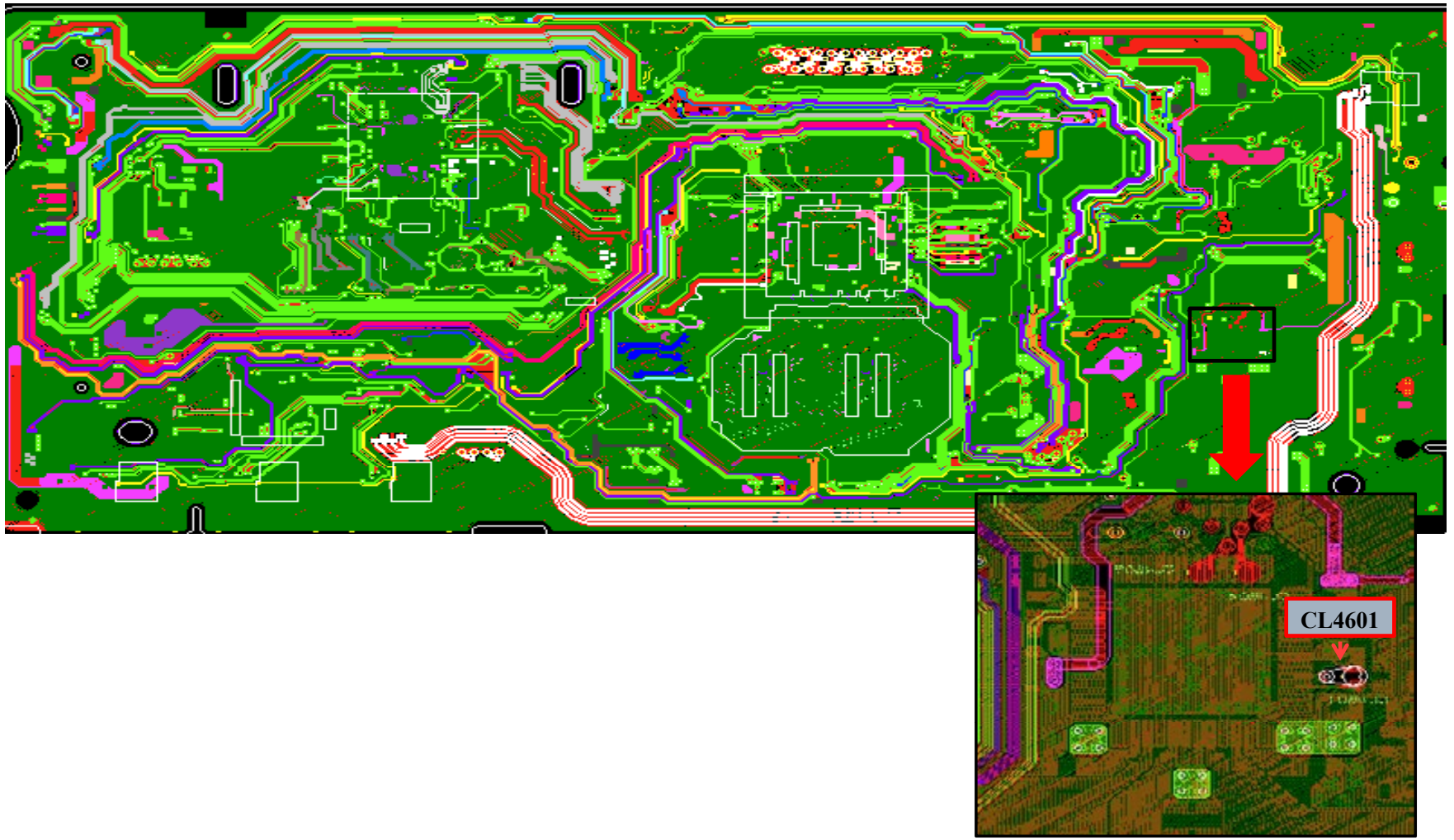
BAX-L BOARD (Side A)



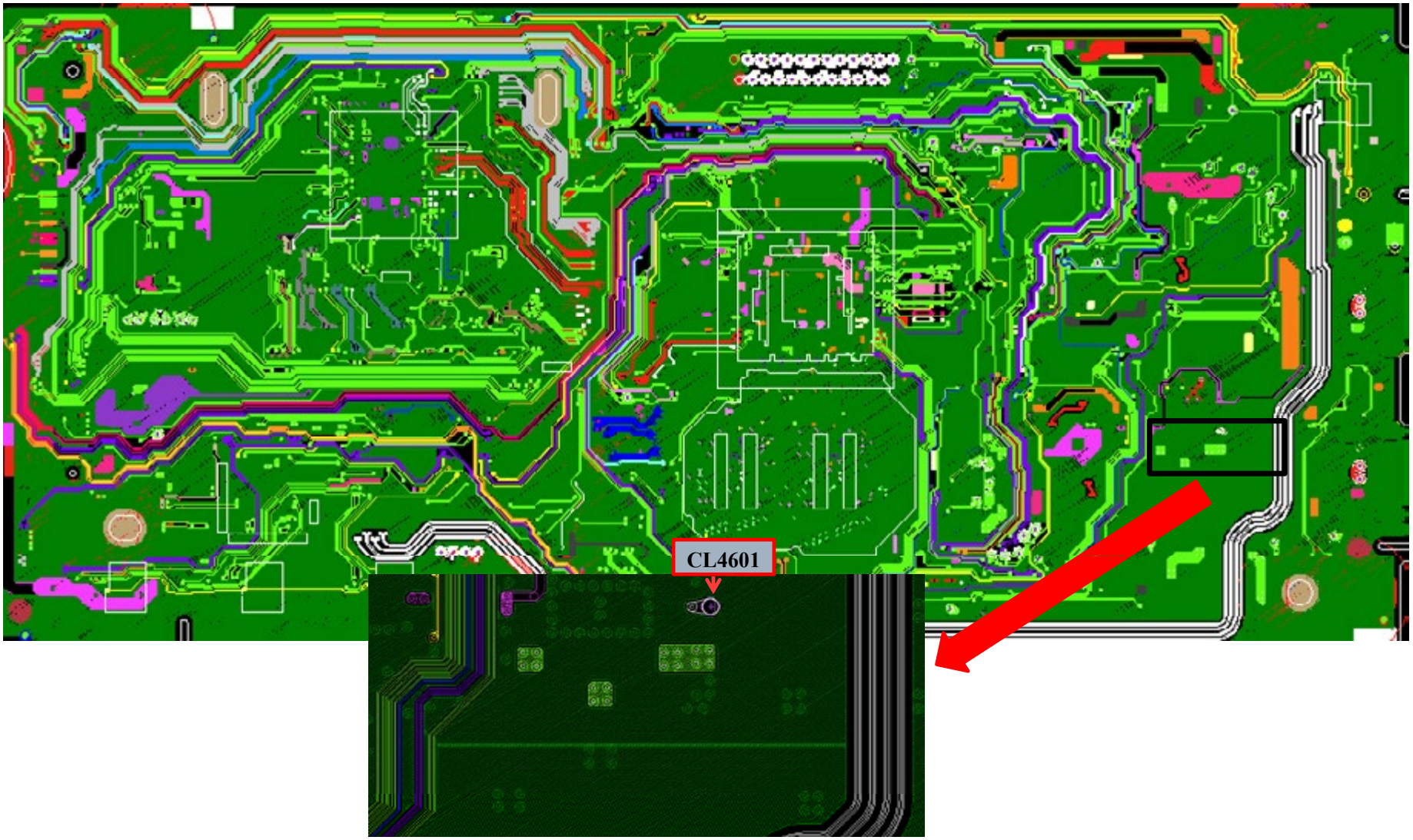
BAX-L BOARD (Side A)



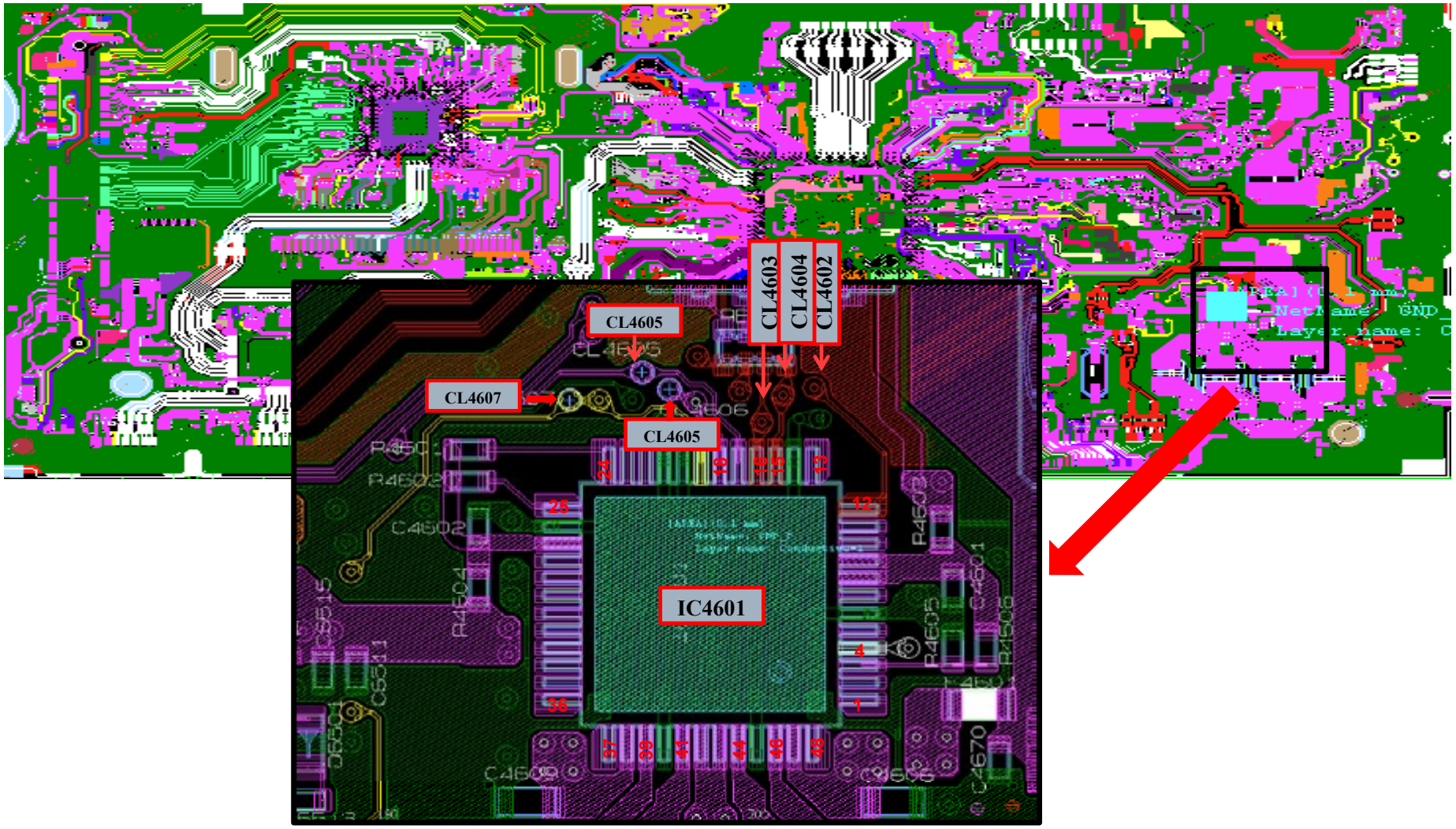
BAX-L BOARD (Side B)



BAX-L BOARD (Side B)



BAX-L BOARD (Side A)



2.3-6 - NO SOUND: HP/LINEOUT ONLY FOR BAX-L (HEL, HEH, HM) BOARD ONLY

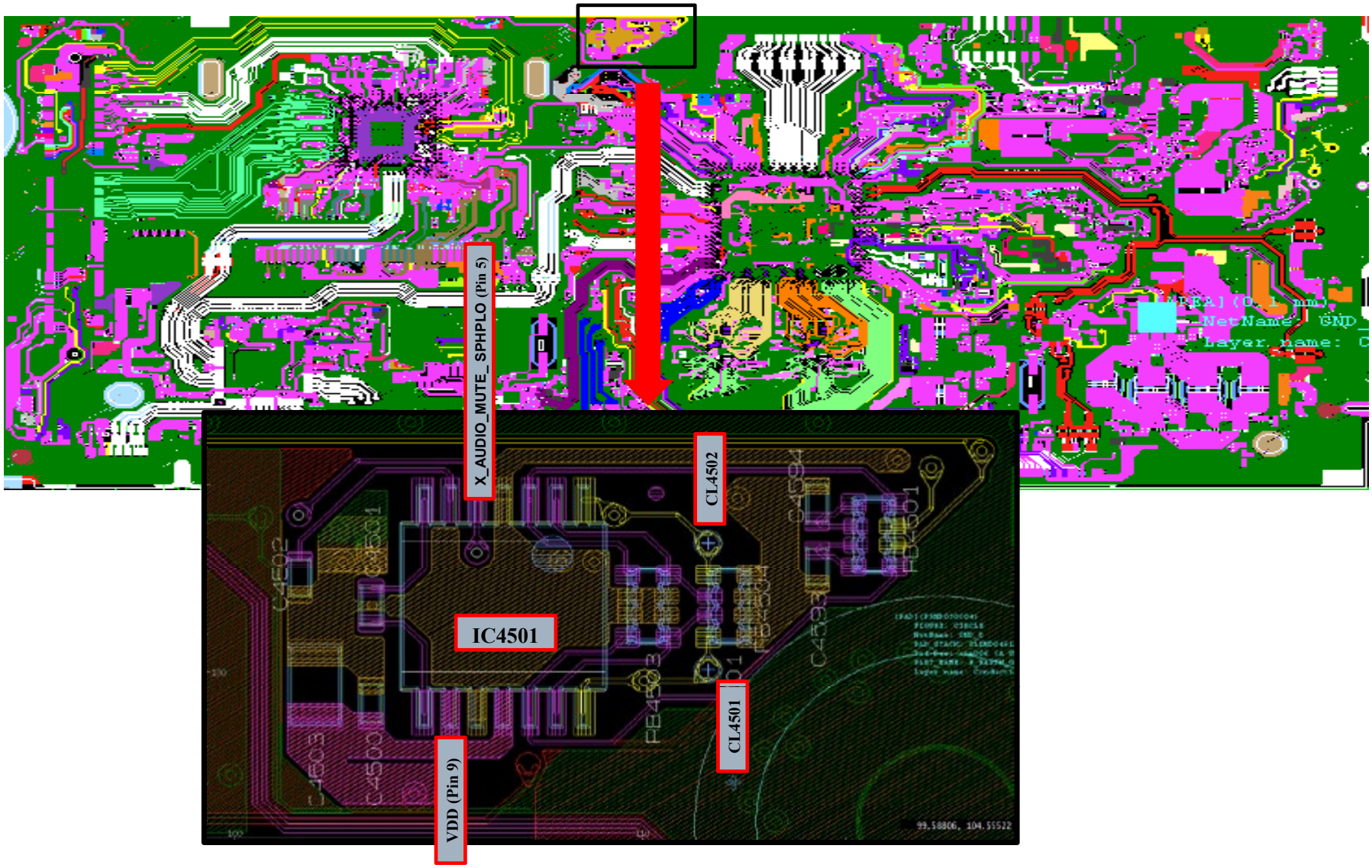
Note:
(AYU2/Ayu2L) – IC9000
(Brownie)- IC9001



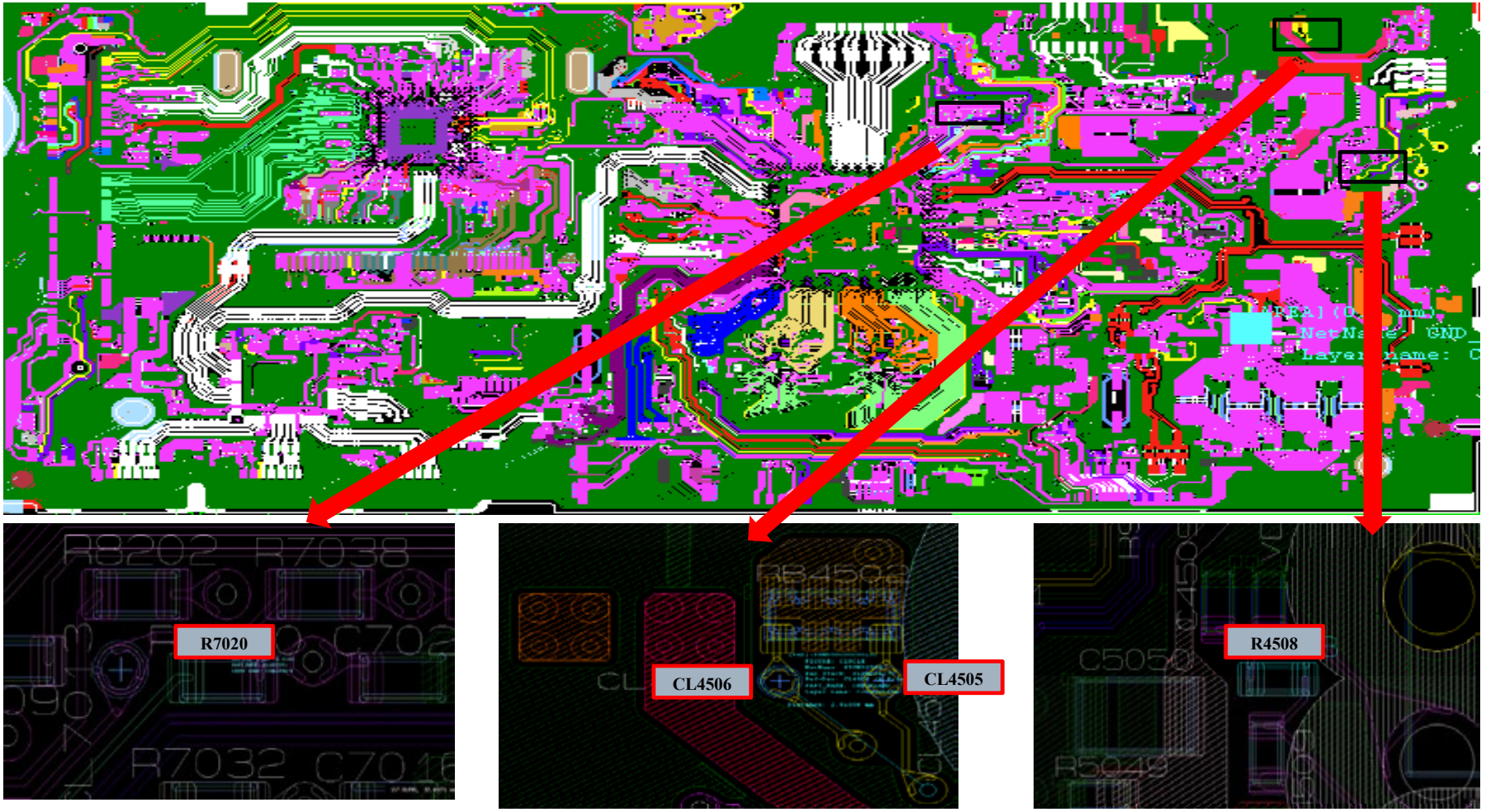
RB1 Main Board Power On Checking

No	Checking Item	OK	NG	If ← NG
1	Insert HP Jack. Check R4508	Vdc = 3.3V ± 0.3V	Vdc = 0V or < 1V	Check HP_DET line (R7020 – for BAX-L) got short to GND? If short to GND replace board.
2	Check IC4501 Pin 5 (X_AUDIO_MUTE_ SPHPLO)	Vdc = 3.3V ± 0.3V	Vdc = 0V or < 1V	Check X_AUDIO_ MUTE_ SPHLO (Pin 5) short to GND. If short to GND replace board.
3	Check CL4505, CL4506. (with audio signal input)	Can see audio signal waveform	Cannot see audio signal waveform	Go to below item No. 4 for checking
4	Check IC4501 pin 9	Vdc = 3.3V ± 0.3V	No 3.3V supply. Please refer item 3-3-1. No POWER DC / DC Converter Check.	
5	Check CL4501, CL4502 (with audio signal input)	Can see audio signal waveform	Cannot see audio signal waveform	Brownie IC (IC9001) NG

BAX-L BOARD (Side A)

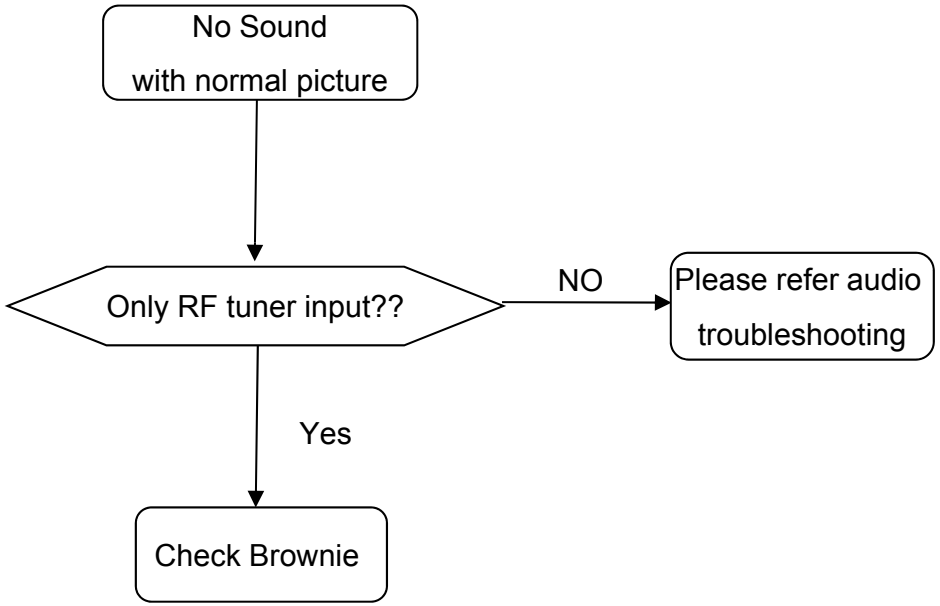


BAX-L BOARD (Side A)

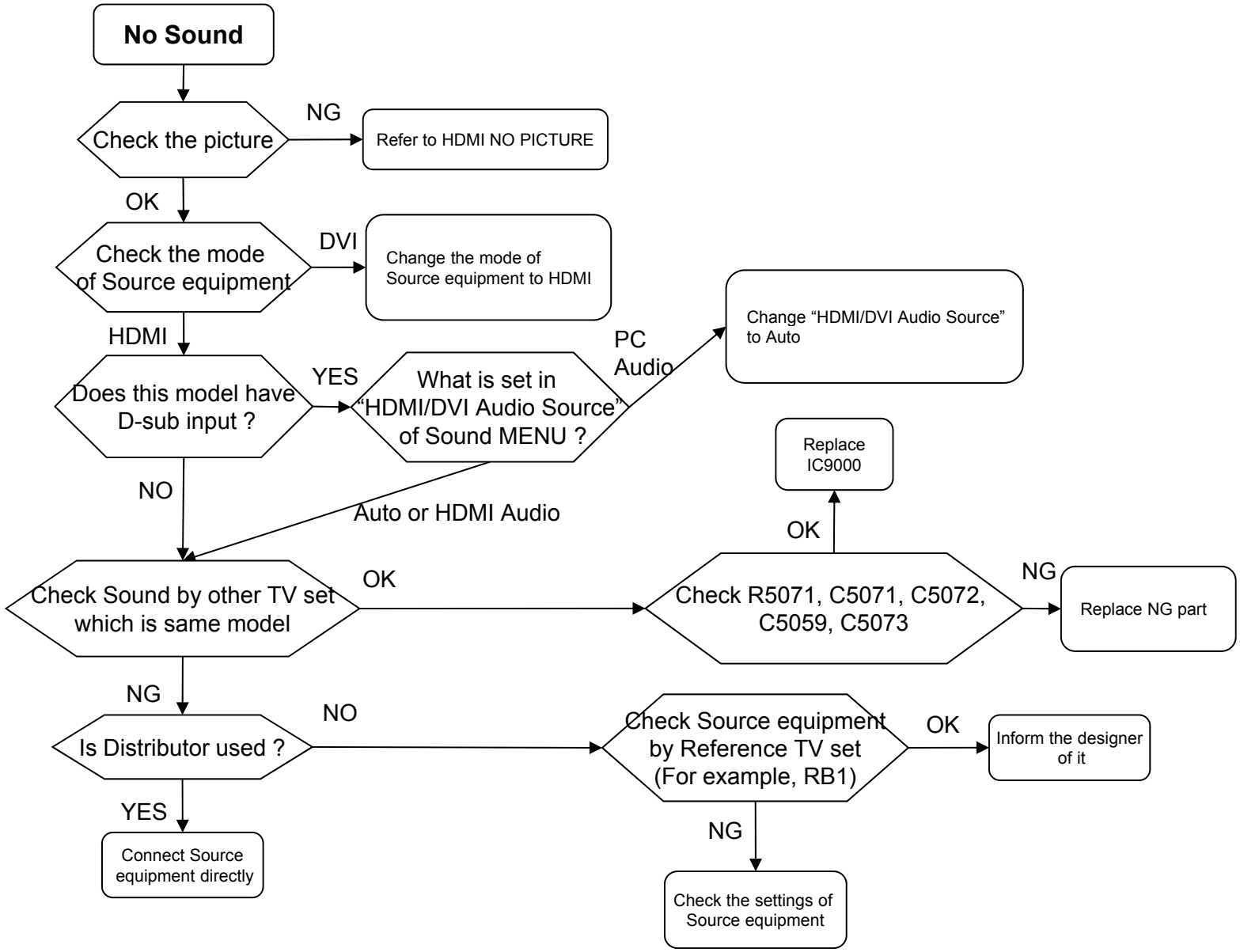


2.3-7 - NO SOUND: TUNER

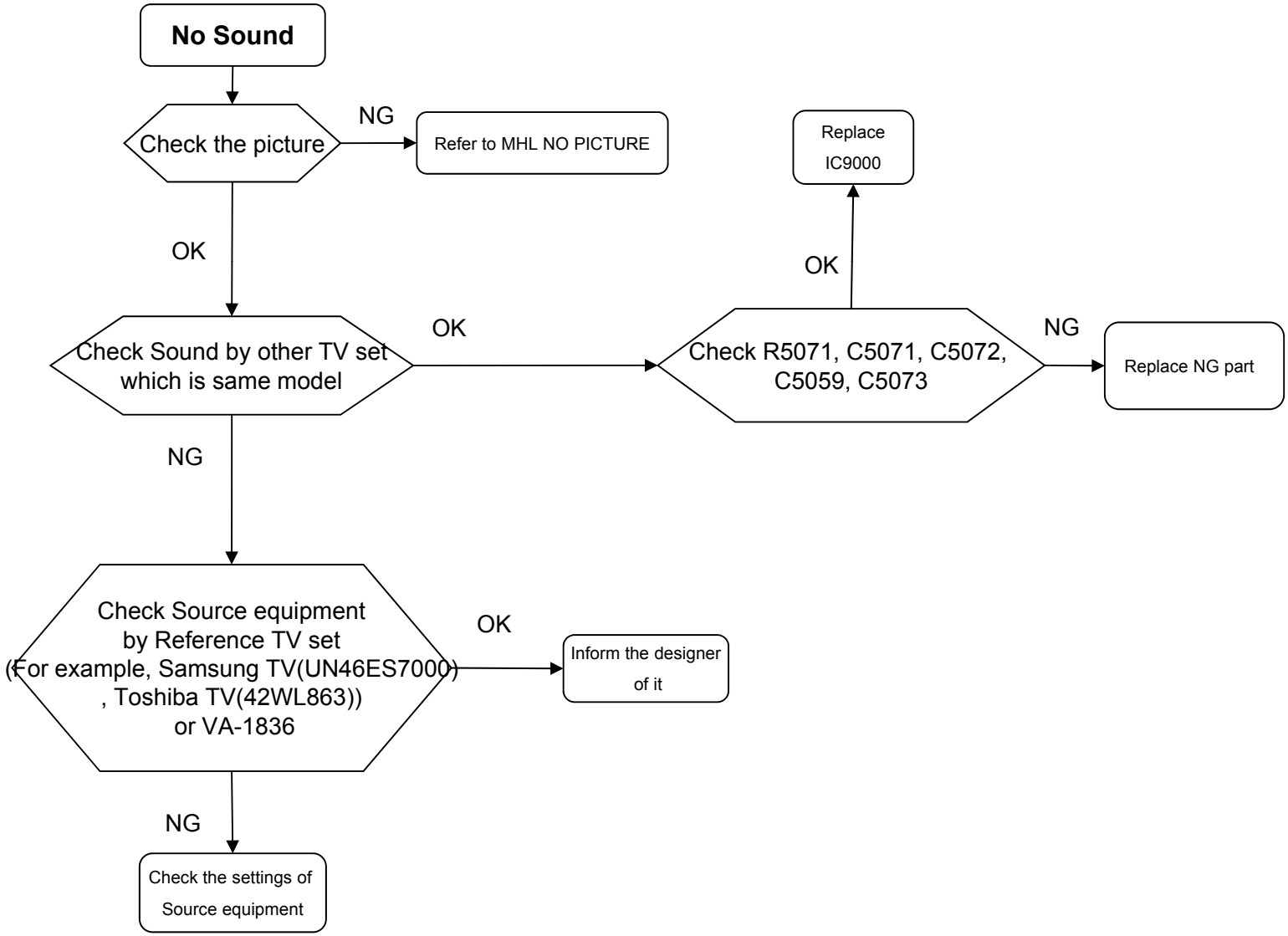
This troubleshooting is only for Analog



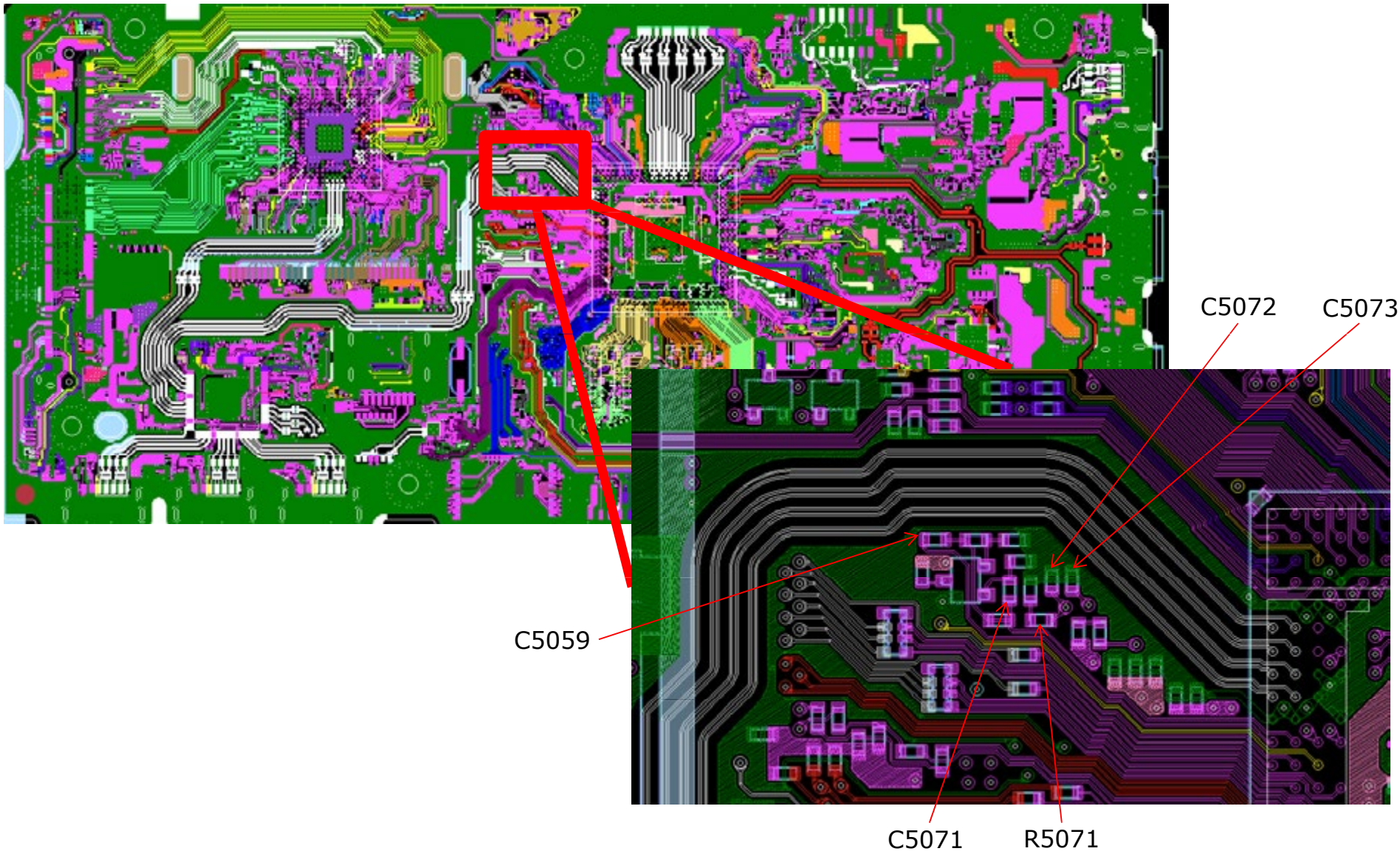
2.3-8 - NO SOUND: HDMI



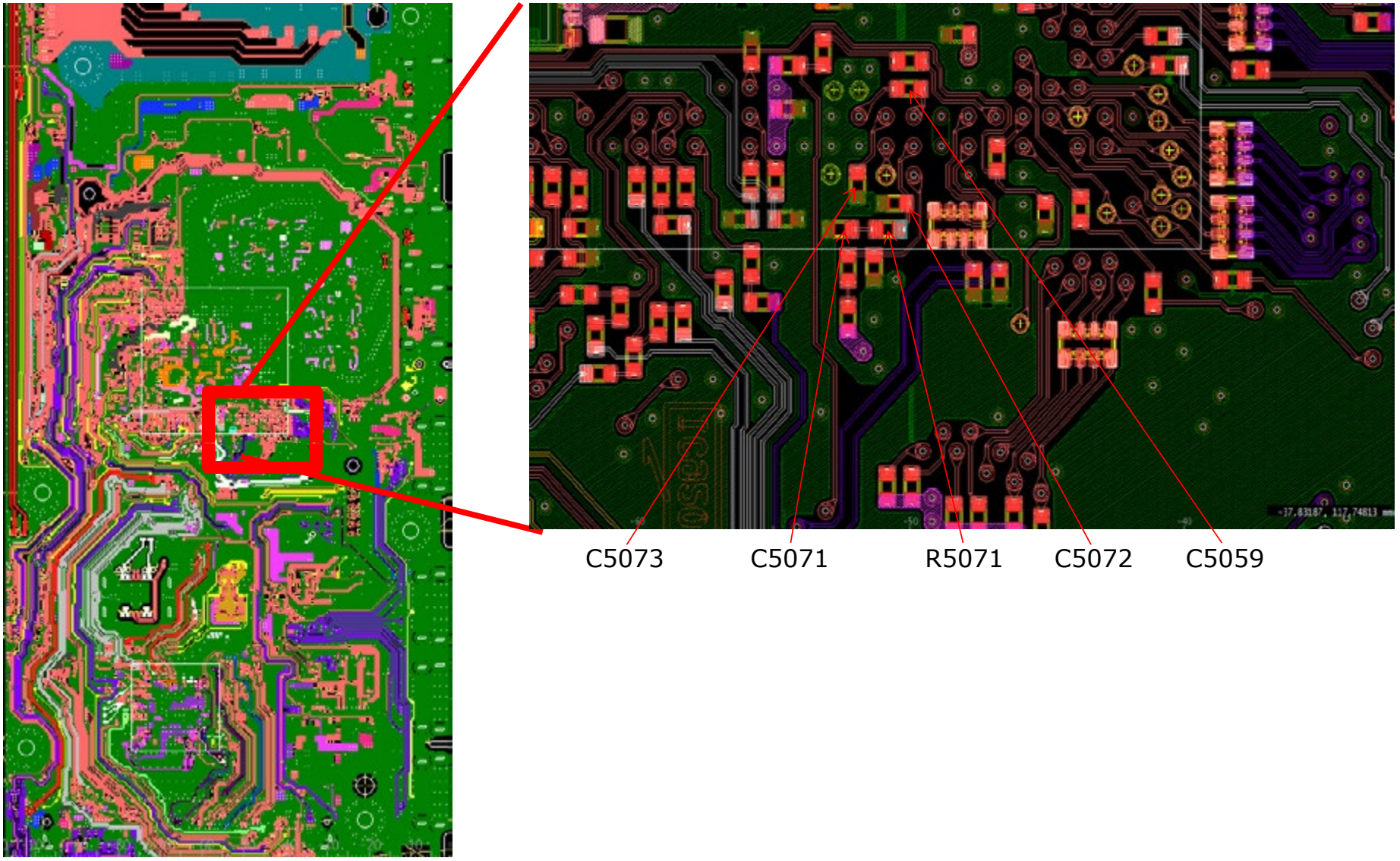
2.3-9 - NO SOUND: MHL



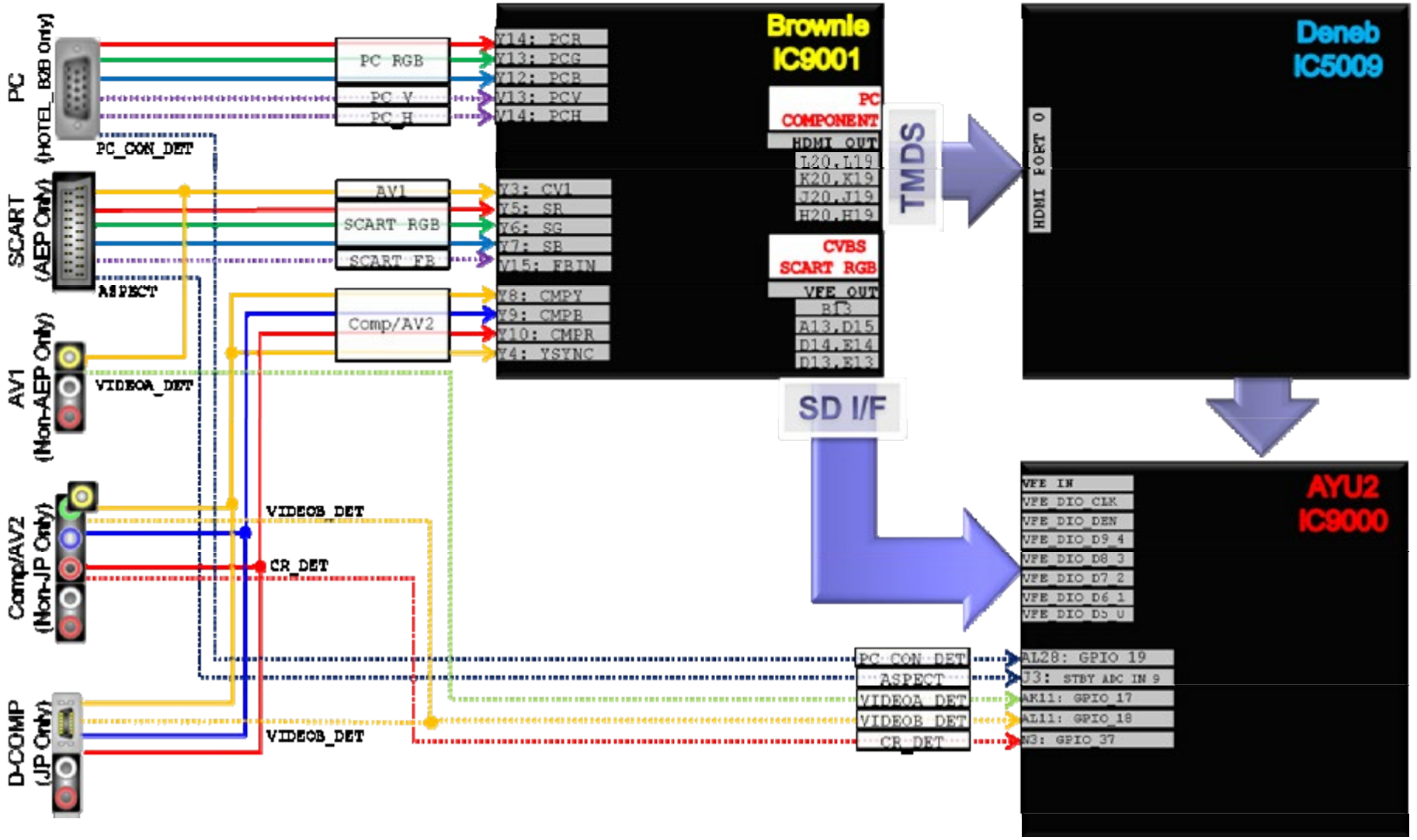
BAX-L BOARD (Side A)



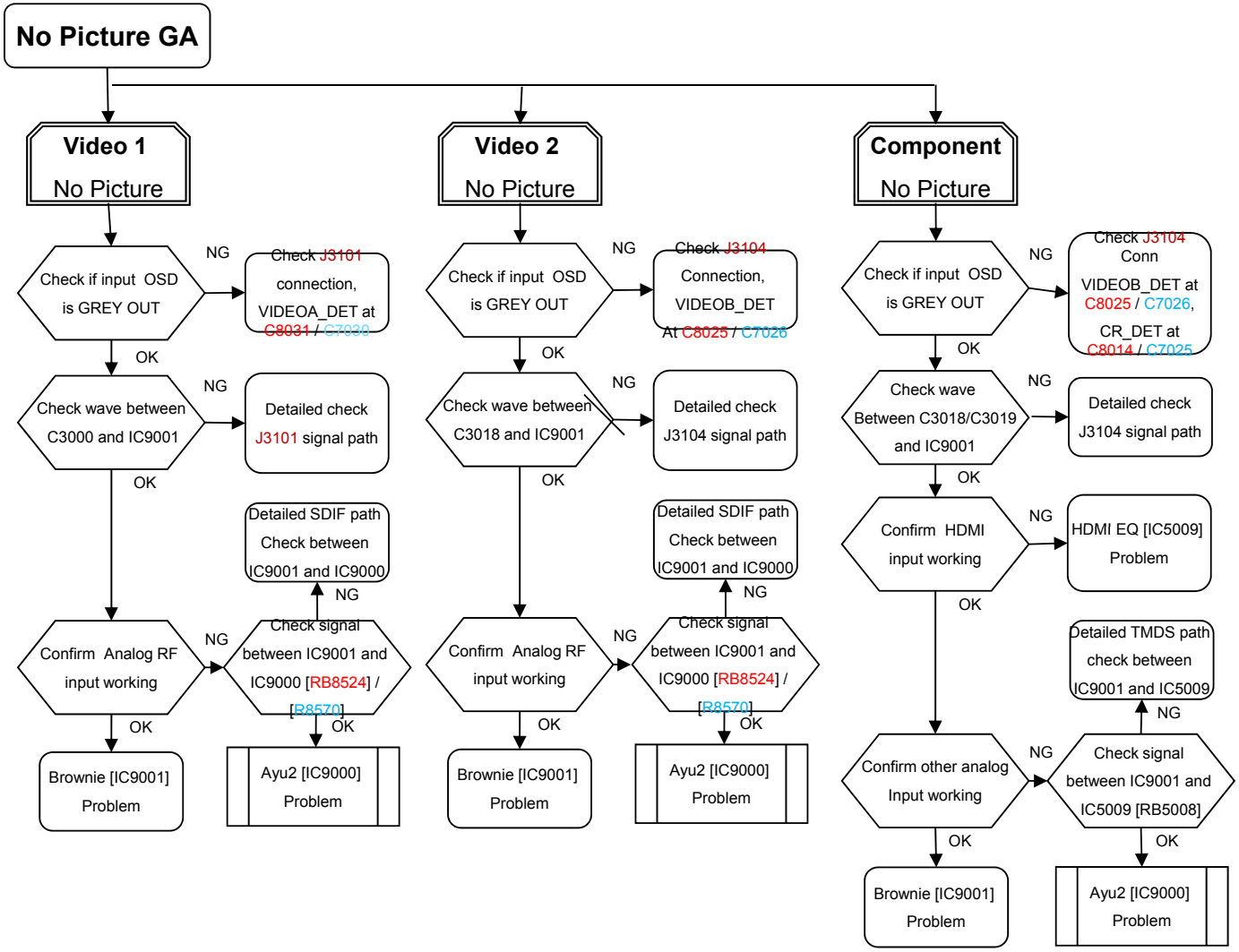
BAX BOARD (Side B)



2.4 - RB2 ANALOG SIGNAL PATH



2.5-1 - NO PICTURE: (BAX + TUS)

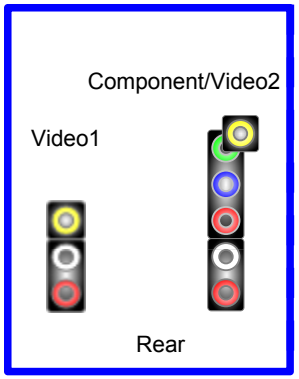


LEGEND	
BAX	
BAX-L	
BAX & BAX-L	
TUS/TUW	

2.5-2 - NO PICTURE: INPUT SKIP FUNCTION - BAX/BAX-L

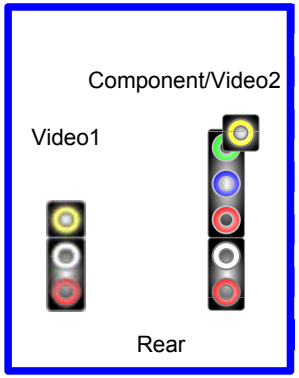
FOR BAX

Input	Signal	Non-Detect (Typical)	Detect (Typical)
Video1	VIDEOA_DET(IC9000 K1) "GPIO_47/DAUI_SPDIF_0"	0V	3.3V
Video2	VIDEOB_DET(IC9000 L3) " GPIO_45/FE_PWMC"	0V	3.3V
Component (Y && Pr/Cr)	VIDEOB_DET [Y] (IC9000 L3) " GPIO_45/FE_PWMC"	0V	3.3V
	CR_DET [Pr/Cr] (IC9000 M3) " GPIO_34/FRAME_ID_2 "	0V	3.3V

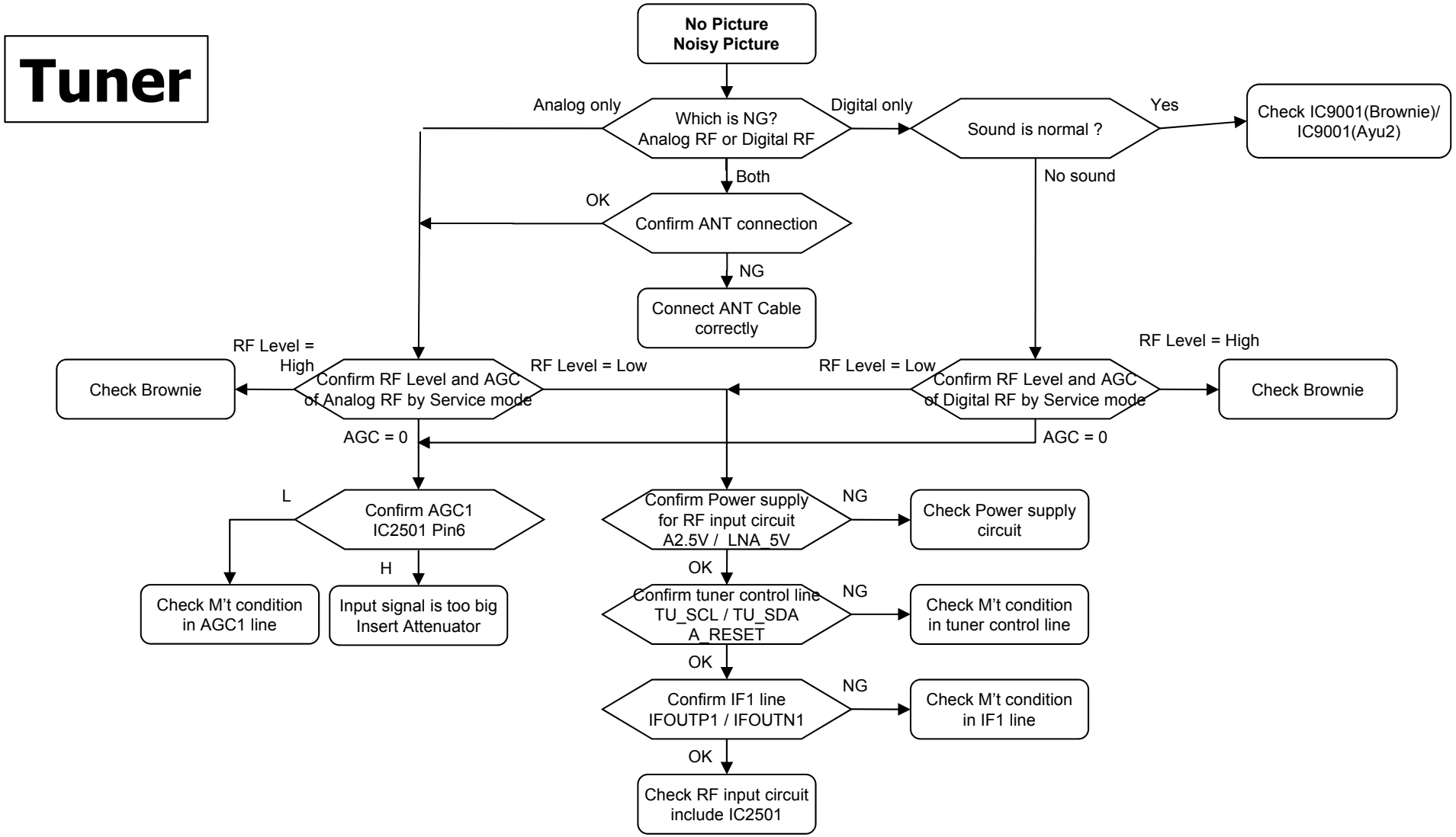


FOR BAX-L

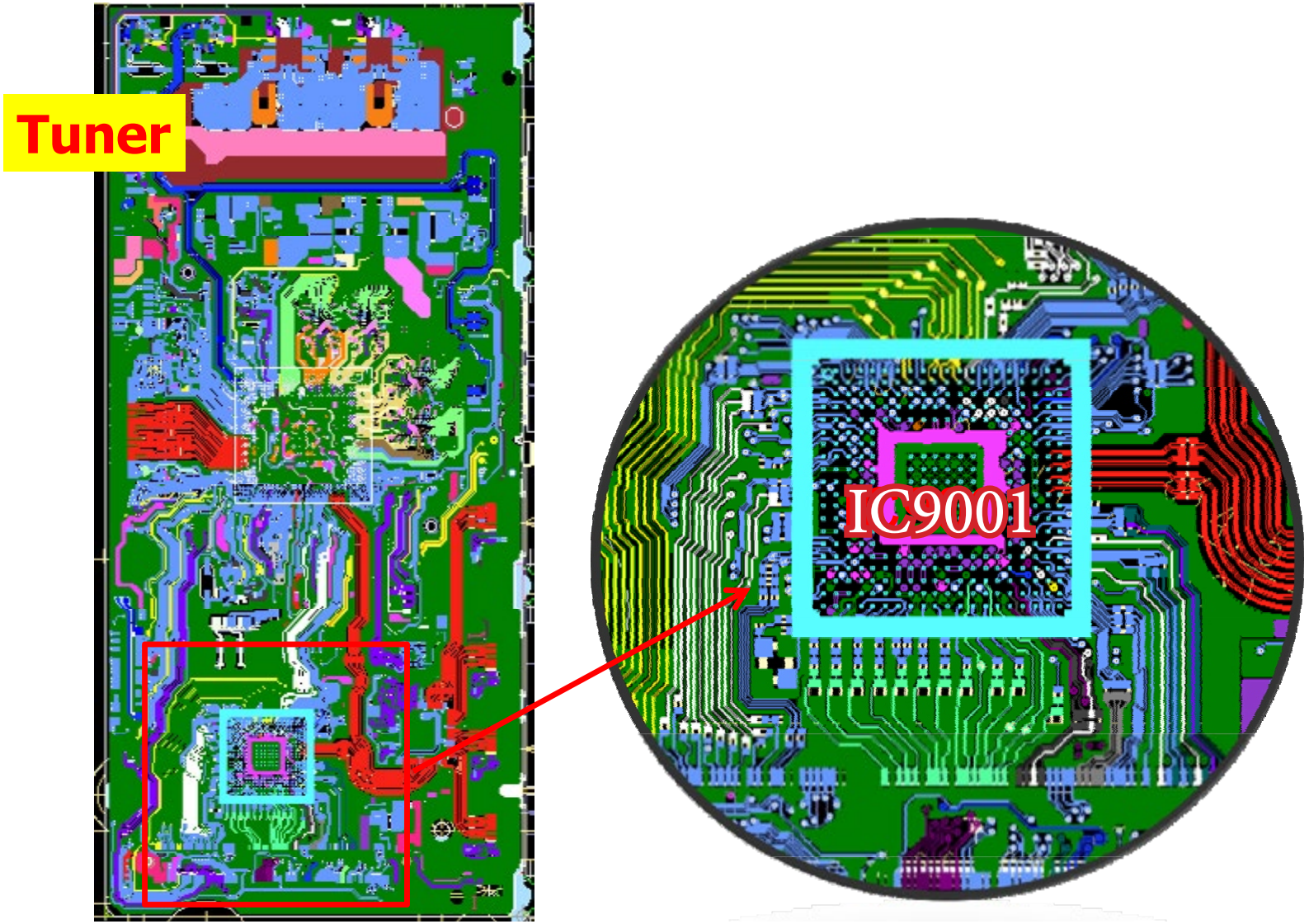
Input	Signal	Non-Detect (Typical)	Detect (Typical)
Video1	VIDEOA_DET(IC9000 AA3) "GPIO_47/DAUI_SPDIF_0"	0V	3.3V
Video2	VIDEOB_DET(IC9000 AD2) " GPIO_45/FE_PWMC"	0V	3.3V
Component (Y && Pr/Cr)	VIDEOB_DET [Y] (IC9000 AD2) " GPIO_45/FE_PWMC"	0V	3.3V
	CR_DET [Pr/Cr] (IC9000 AA1) GPIO_12/TIMER_CMPD/SPDIF_SEL "	0V	3.3V



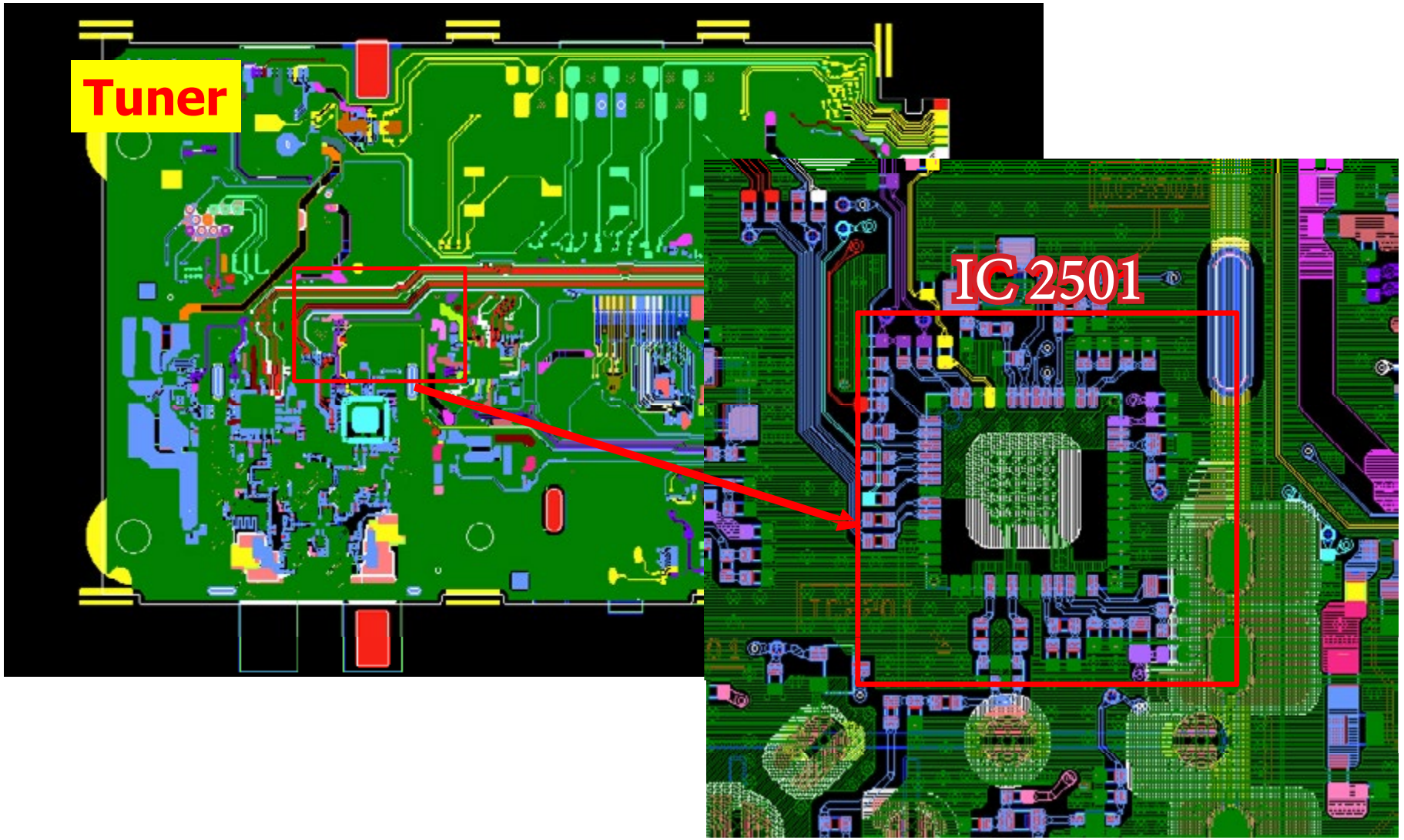
2.5-3 - NO PICTURE: TUNER



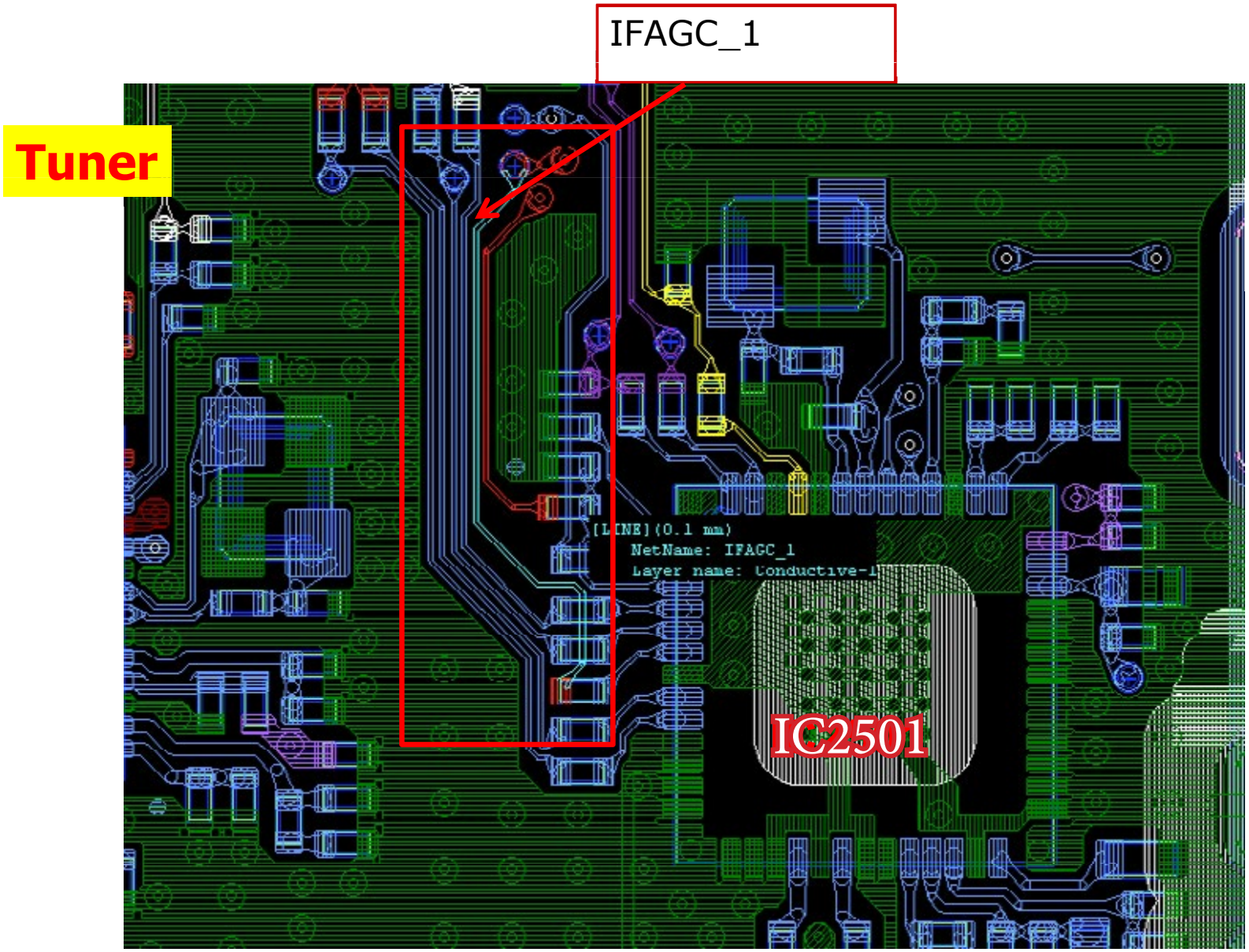
TUS BOARD



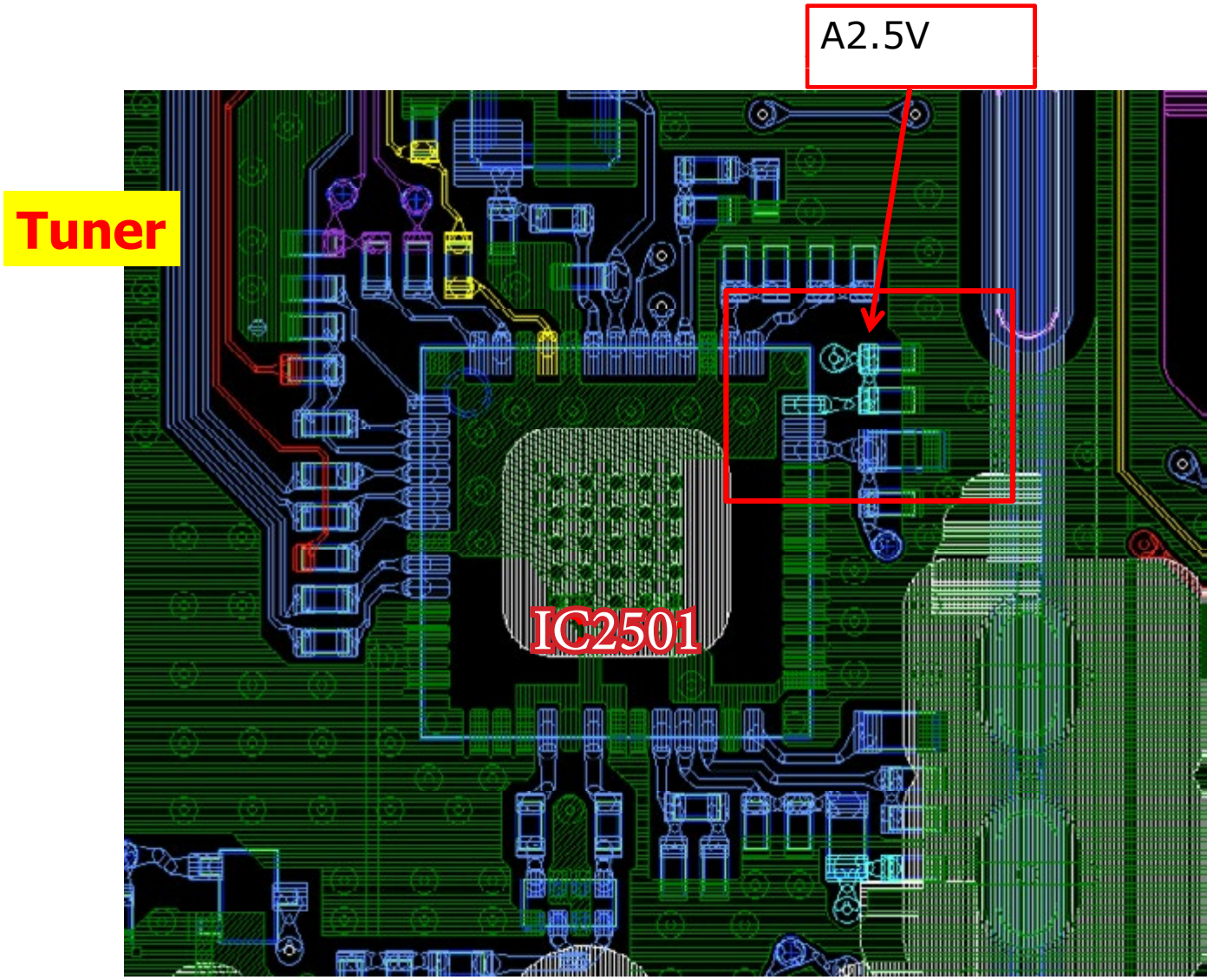
TUS BOARD



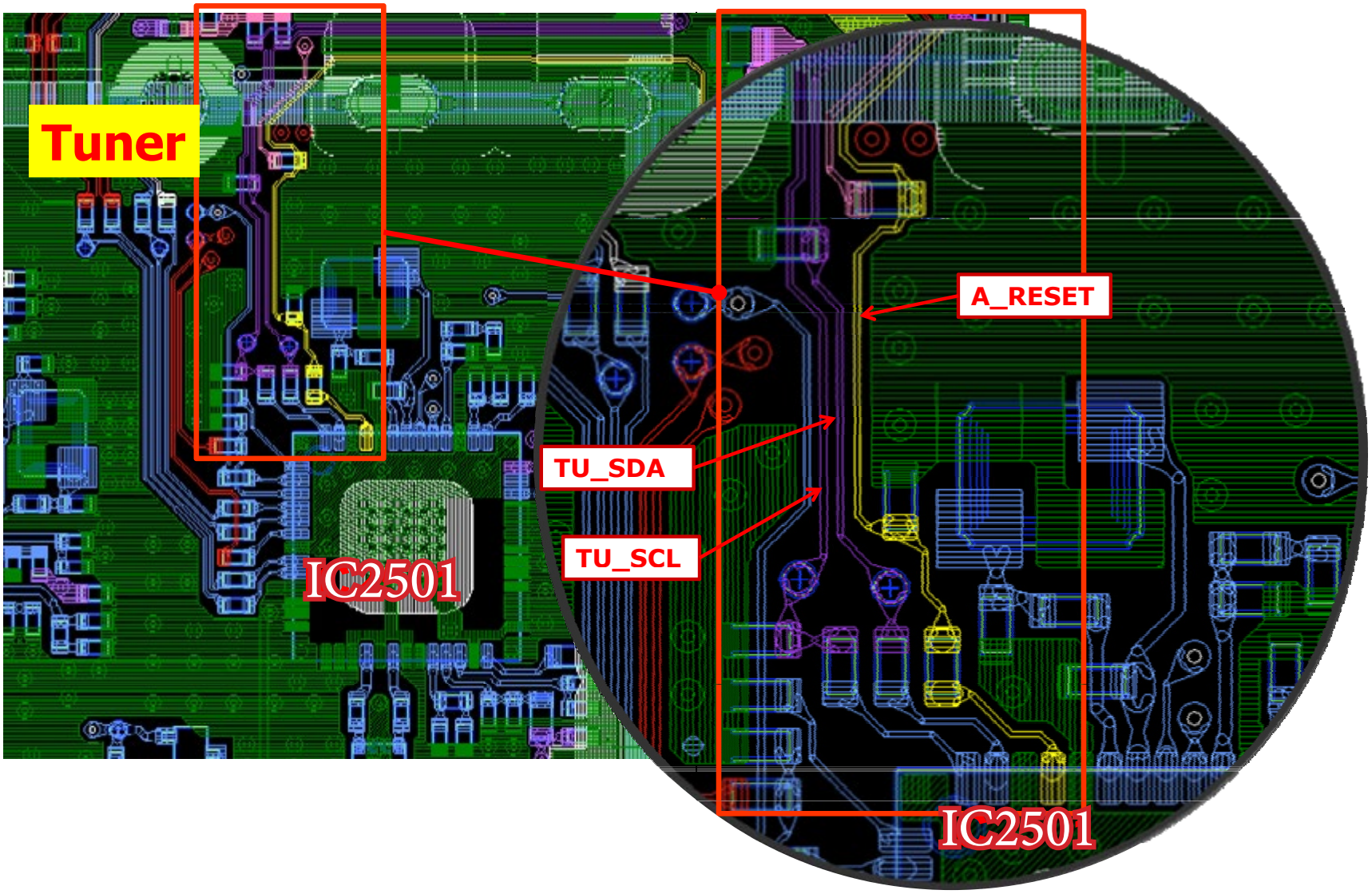
TUS BOARD


IFAGC_1
Tuner
[LINE](0.1 mm)
NetName: IFAGC_1
Layer name: Conductive-1
IC2501

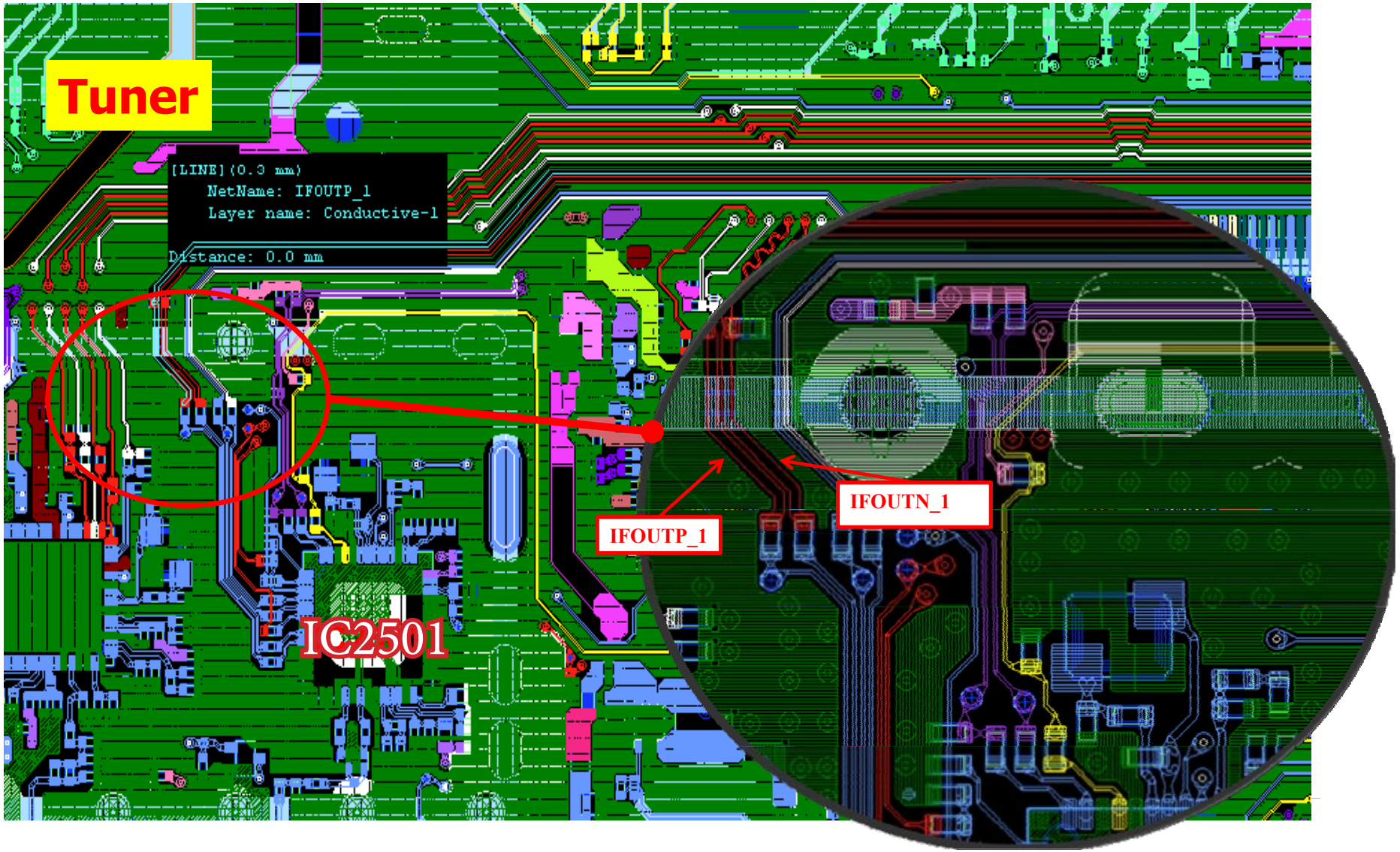
TUS BOARD



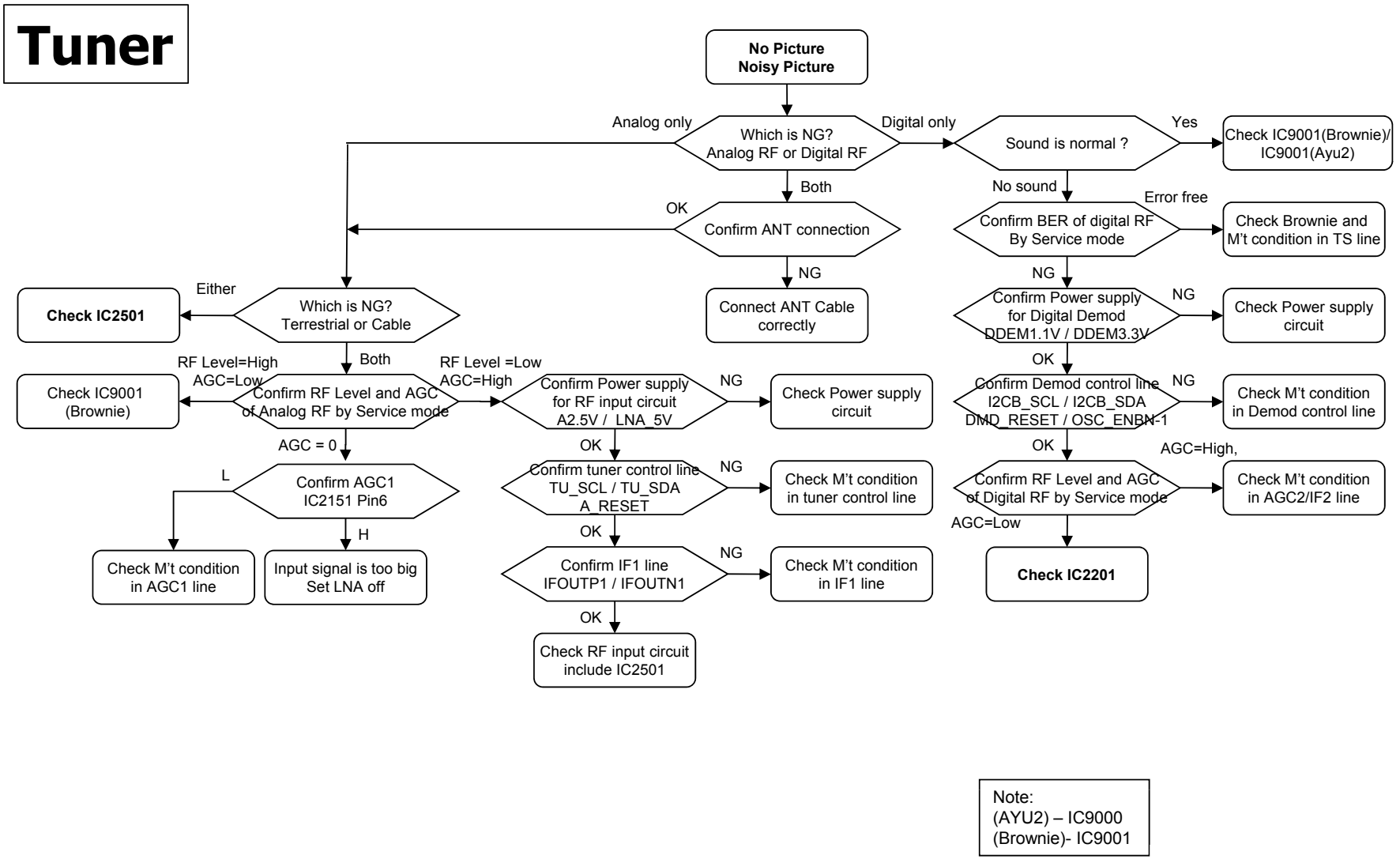
TUS BOARD



TUS BOARD

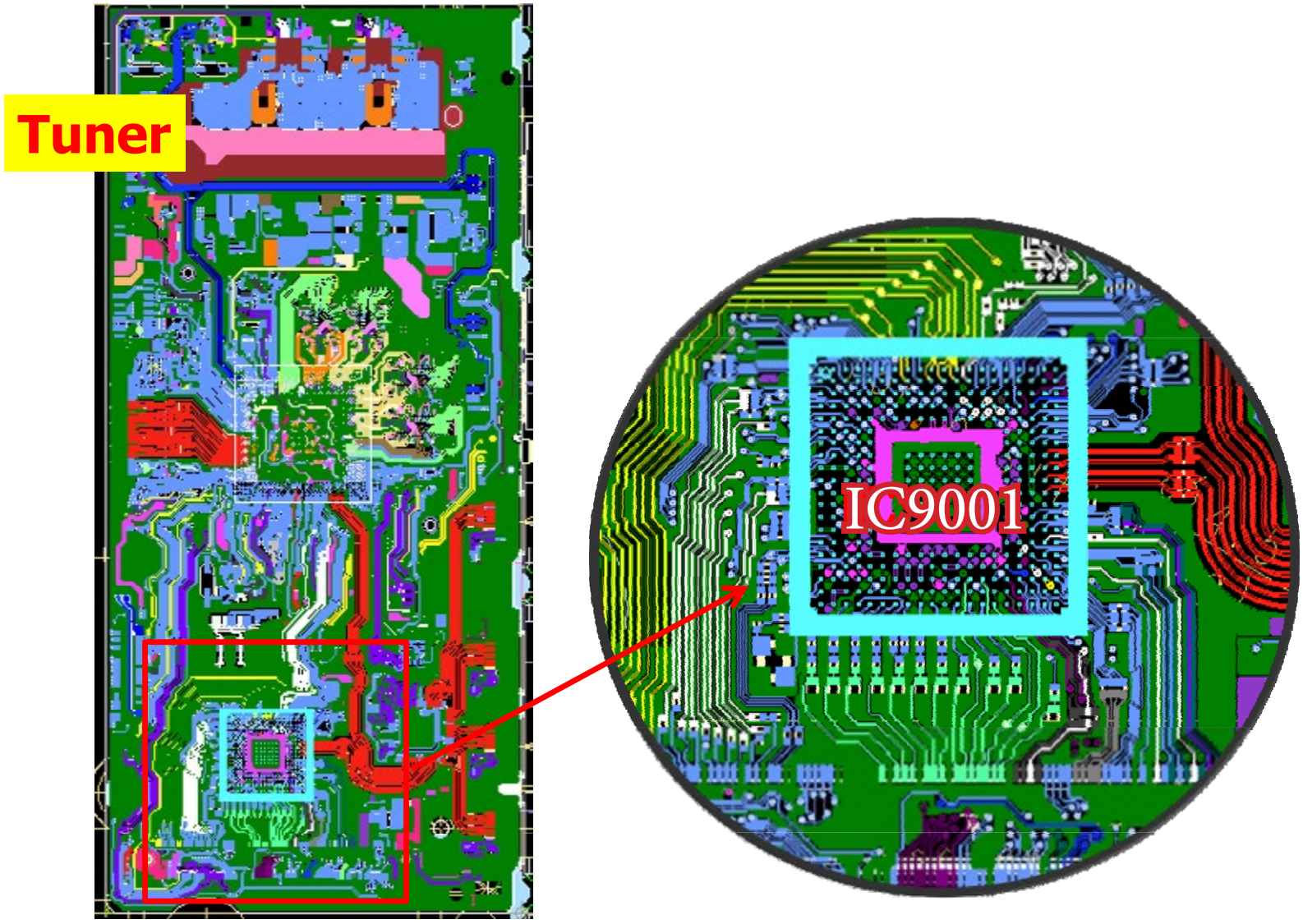

Tuner
[LINE](0.3 mm)
NetName: IFOUTP_1
Layer name: Conductive-1
Distance: 0.0 mm
IC2501
IFOUTP_1
IFOUTN_1

2.5-4. TUNER COL-T2 / BRZ / ARG

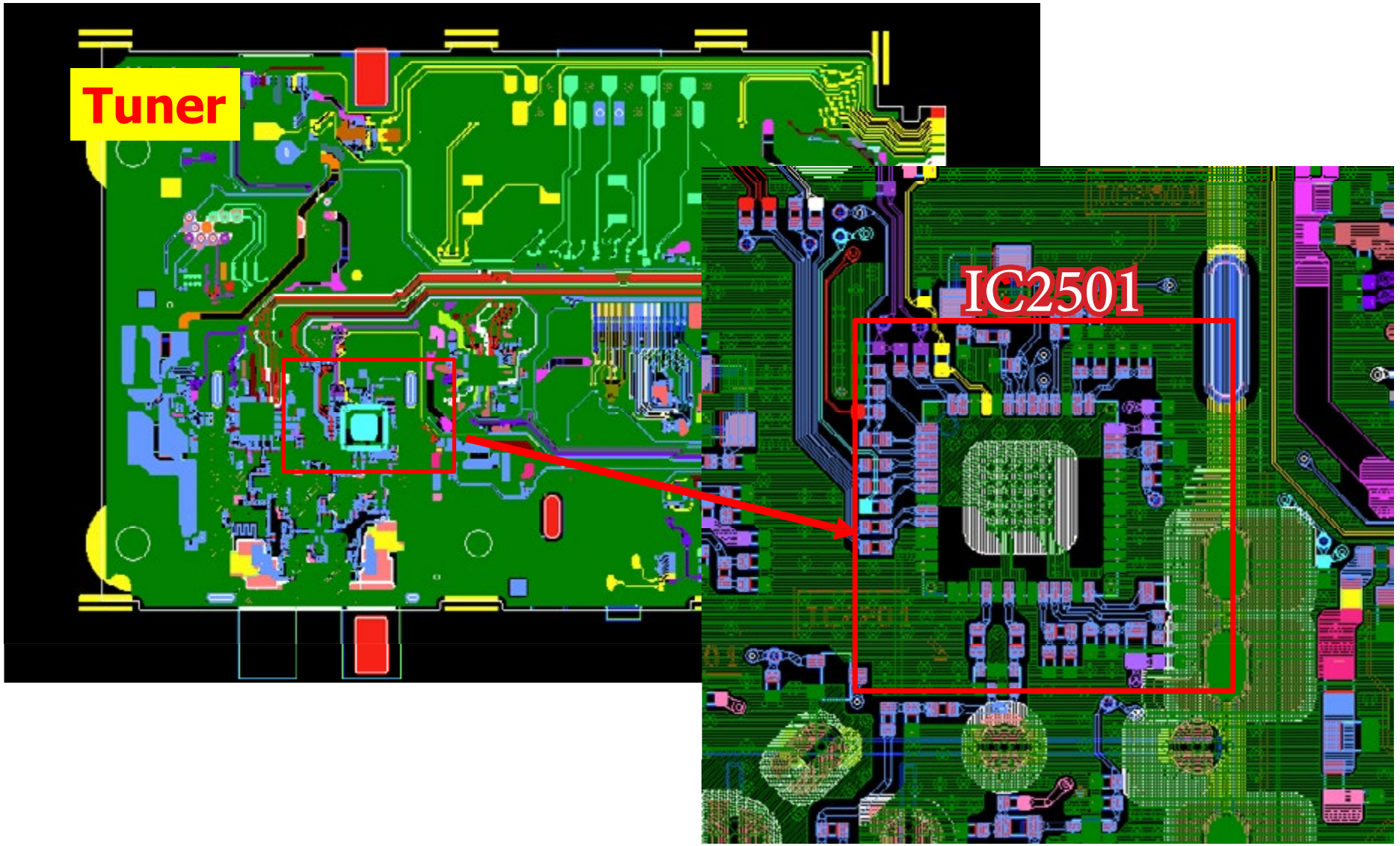


Note:
(AYU2) – IC9000
(Brownie)- IC9001

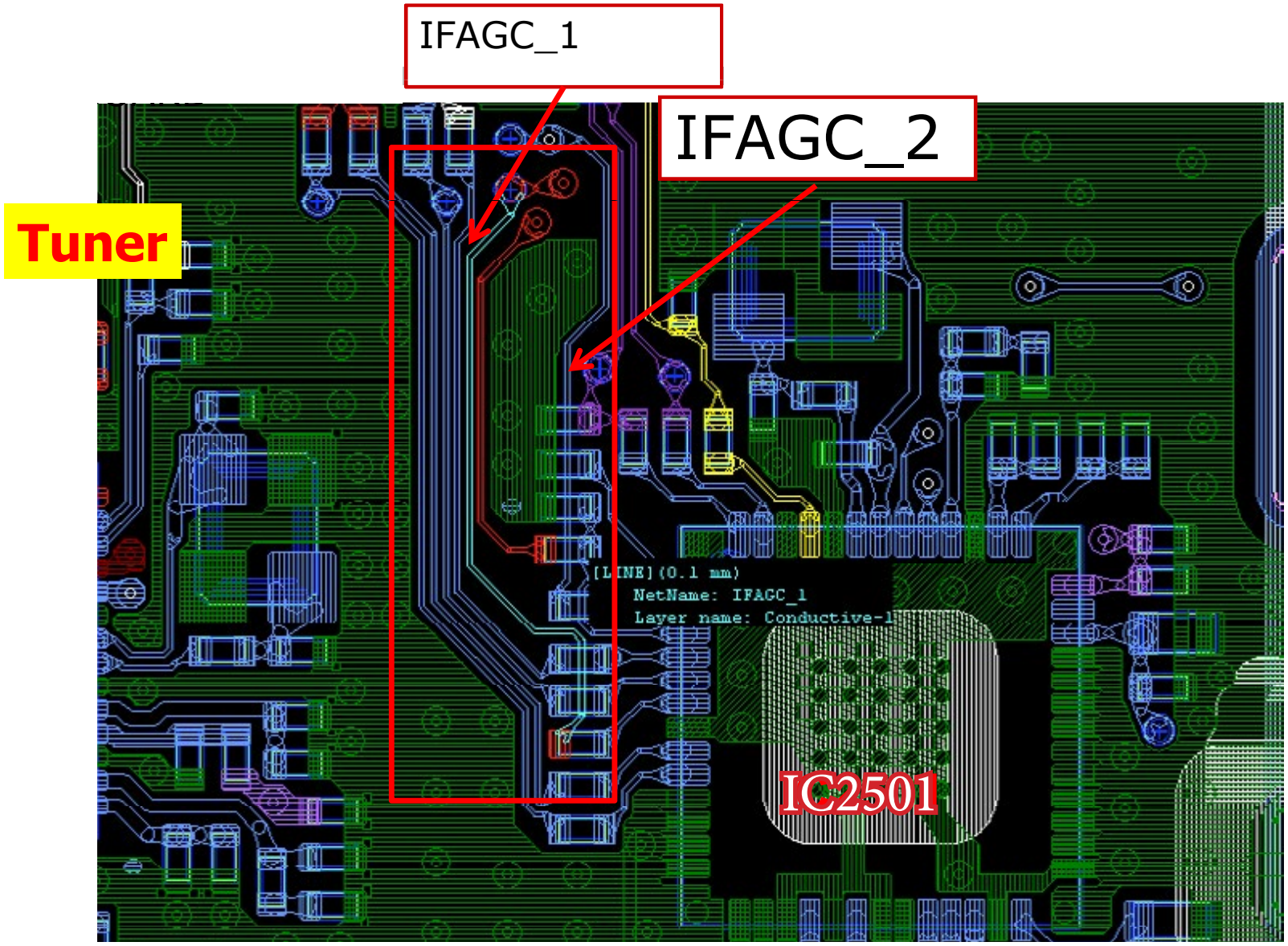
BAX BOARD - IC9001 (BROWNIE)



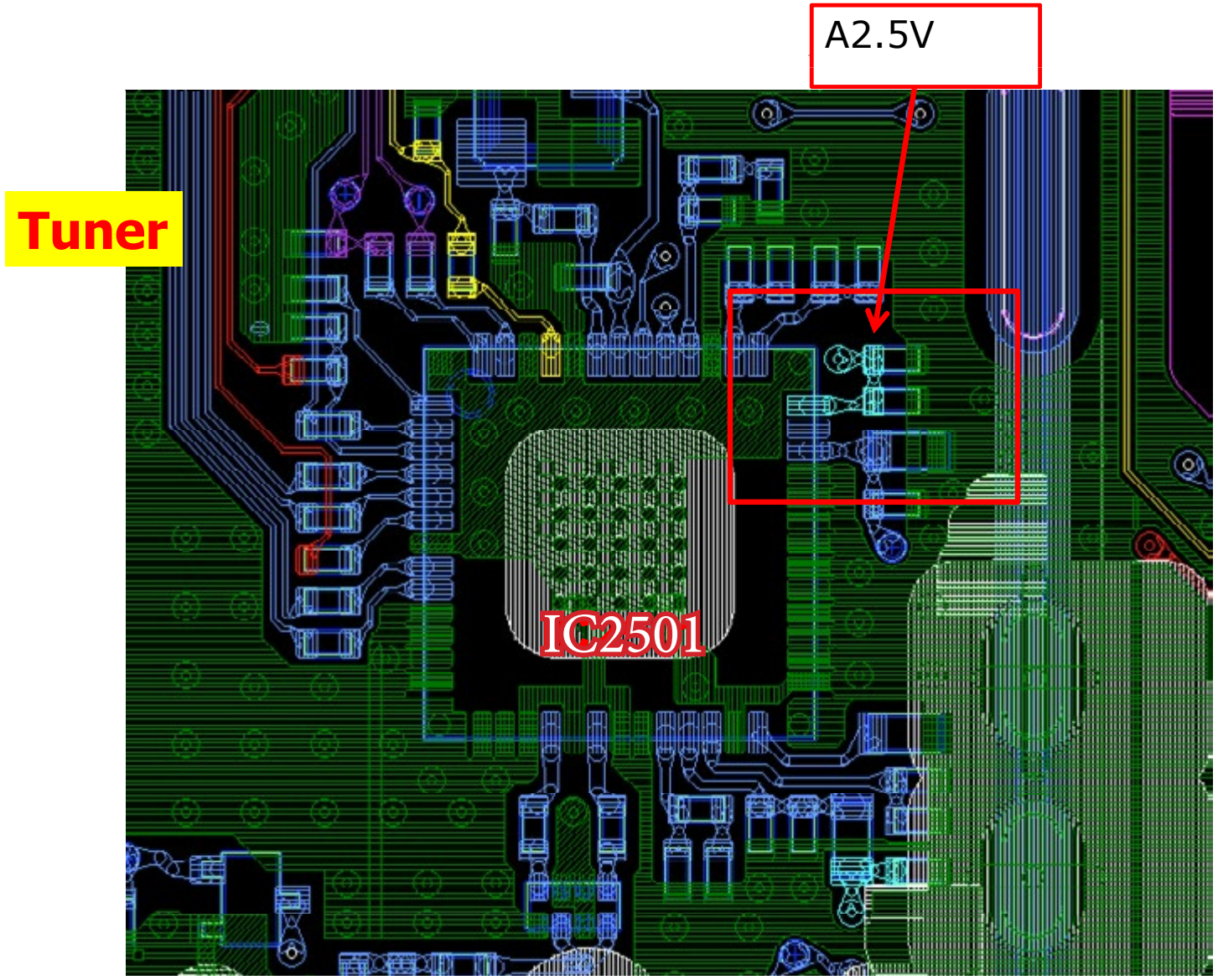
TUS BOARD - IC2501



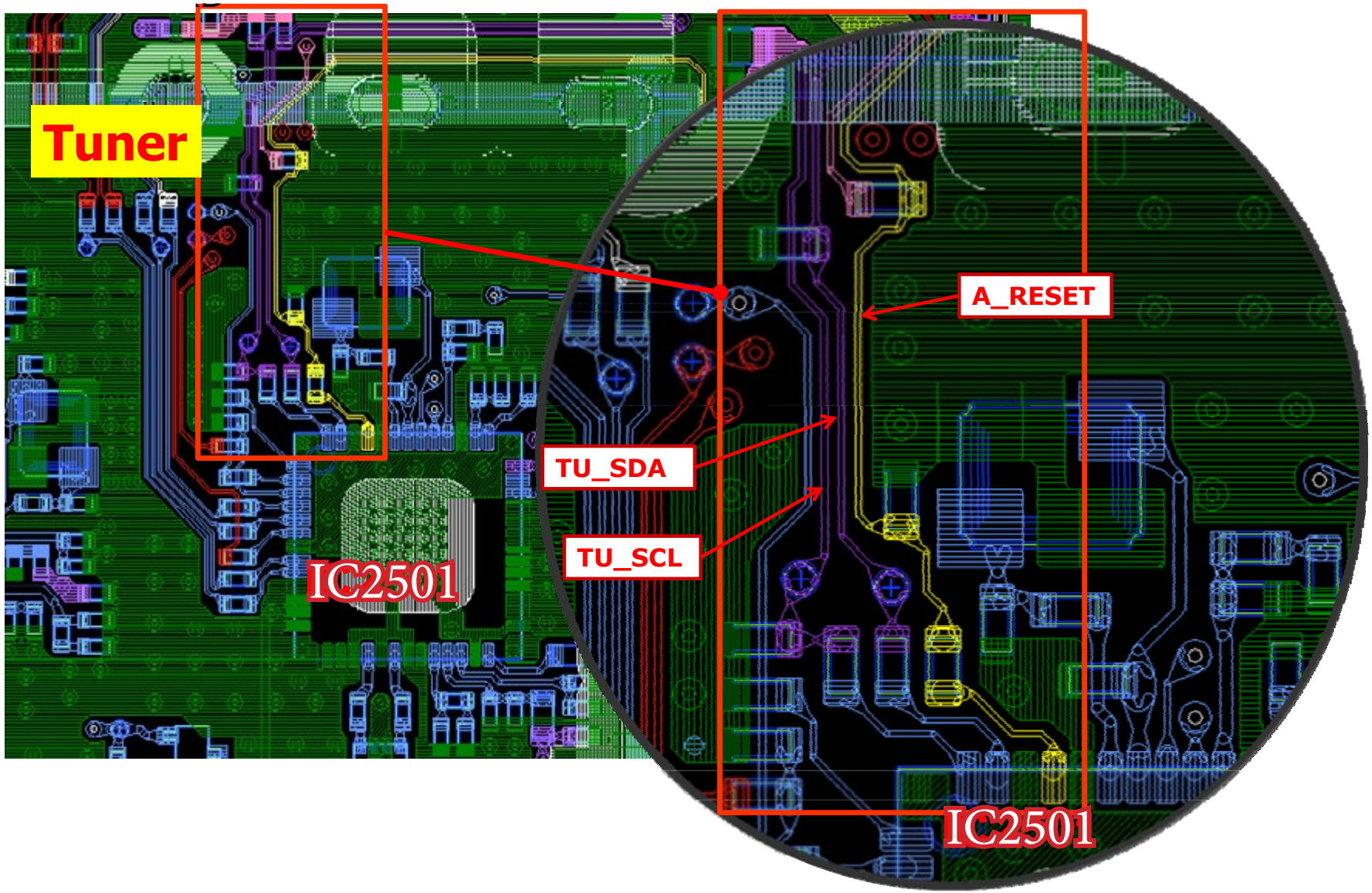
TUS BOARD


IFAGC_1
IFAGC_2
Tuner
[LINE](0.1 mm)
NetName: IFAGC_1
Layer name: Conductive-1
IC2501

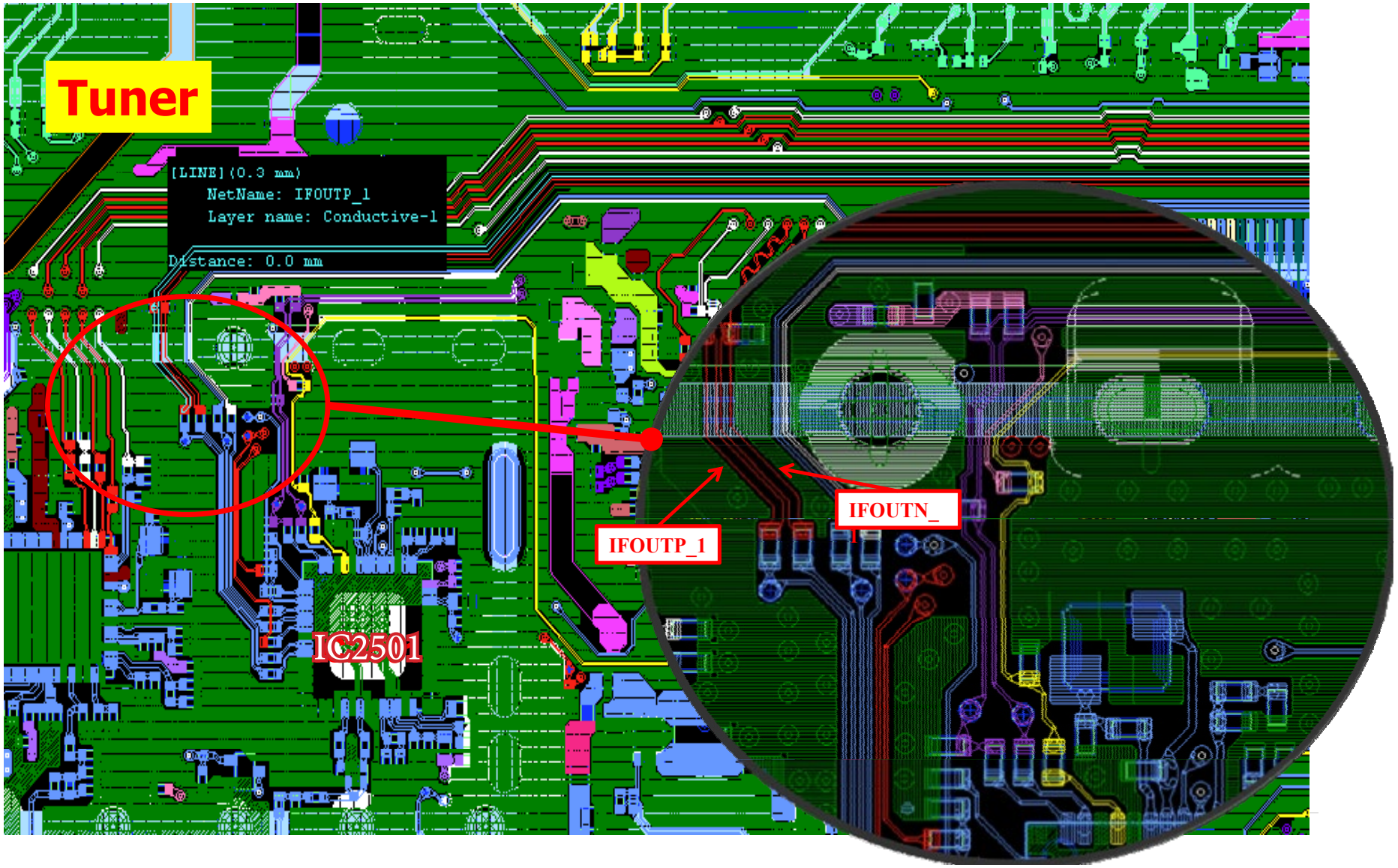
TUS BOARD



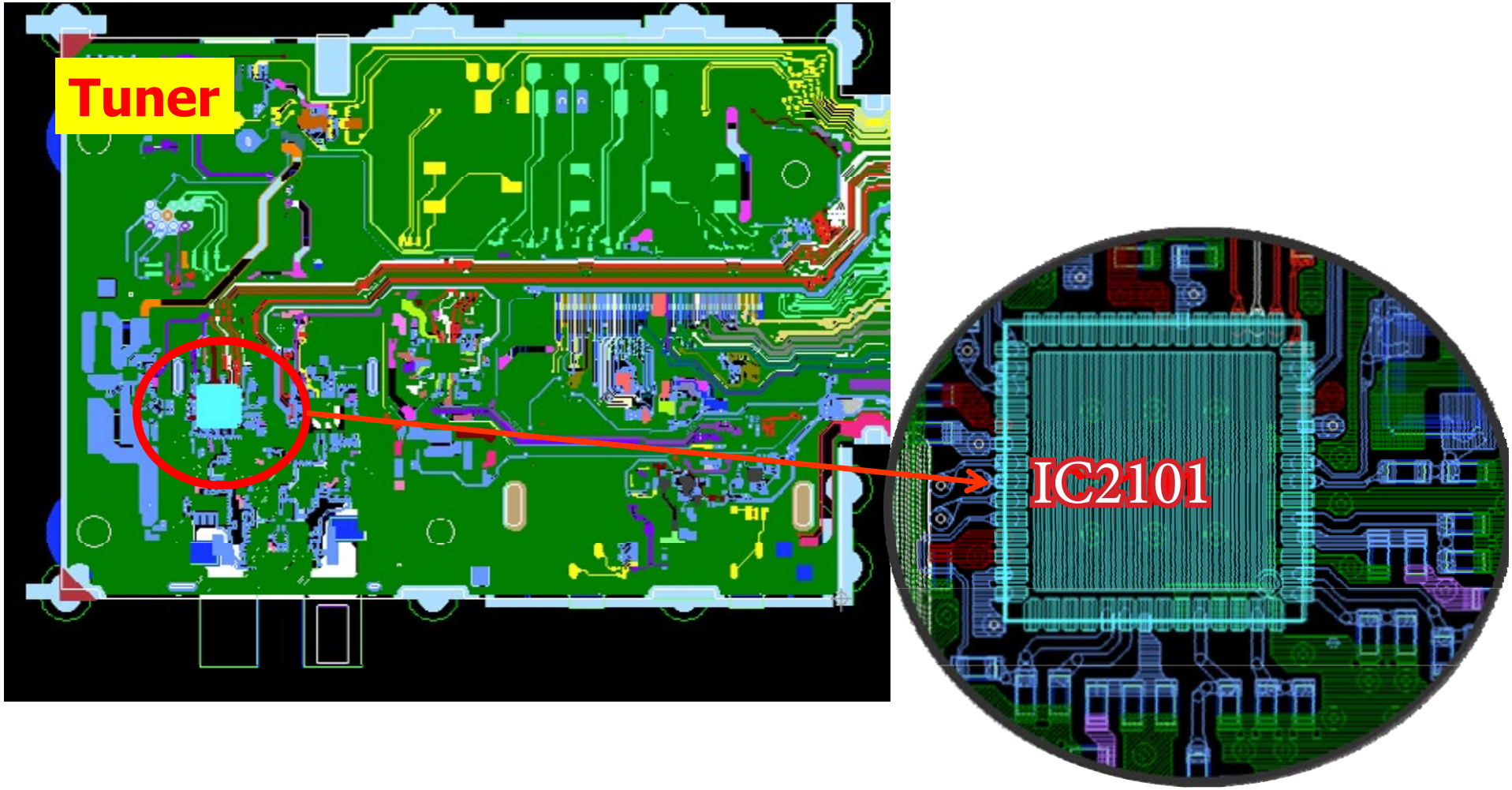
TUS BOARD



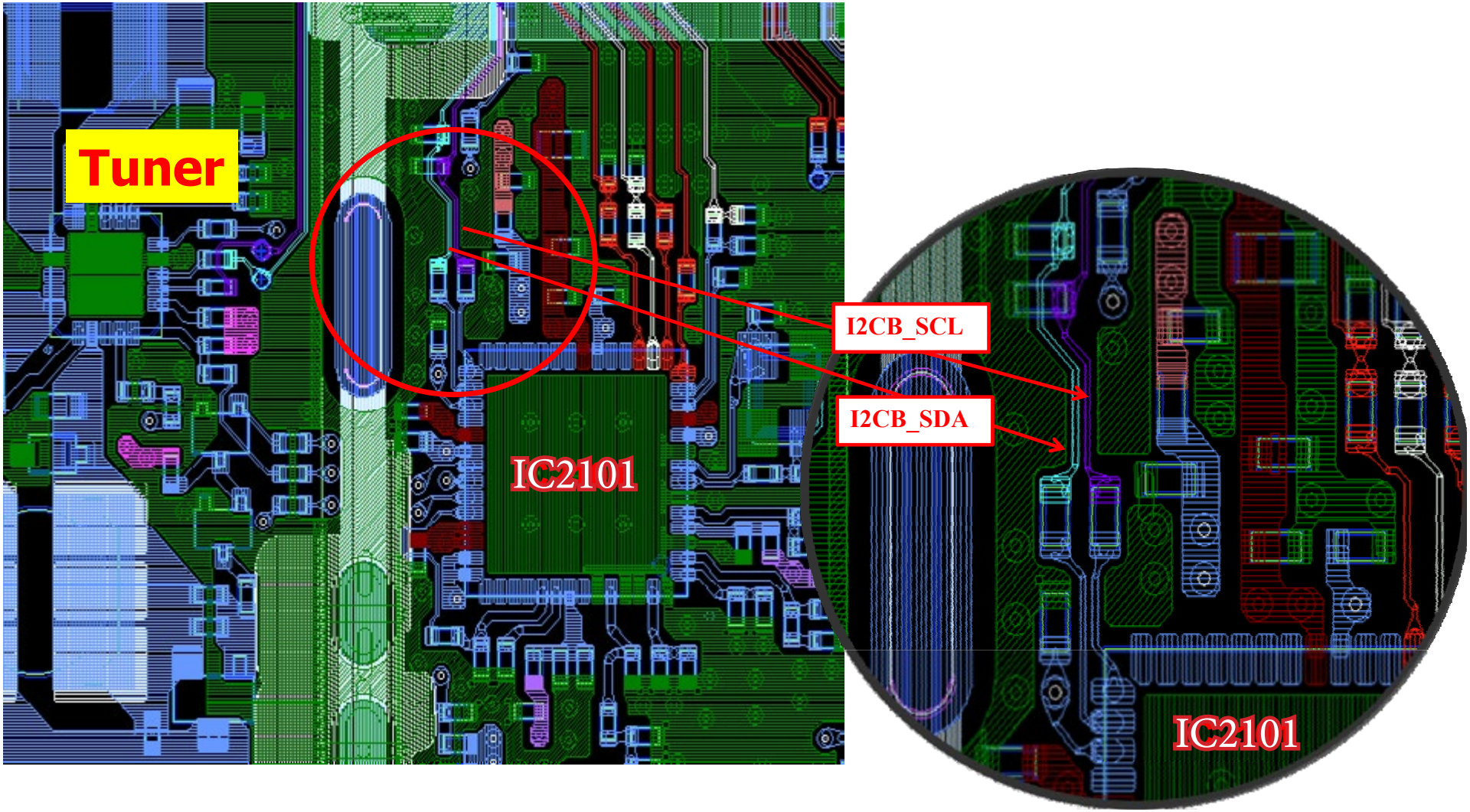
TUS BOARD


Tuner
[LINE](0.3 mm)
NetName: IFOUTP_1
Layer name: Conductive-1
Distance: 0.0 mm
IC2501
IFOUTP_1
IFOUTN_

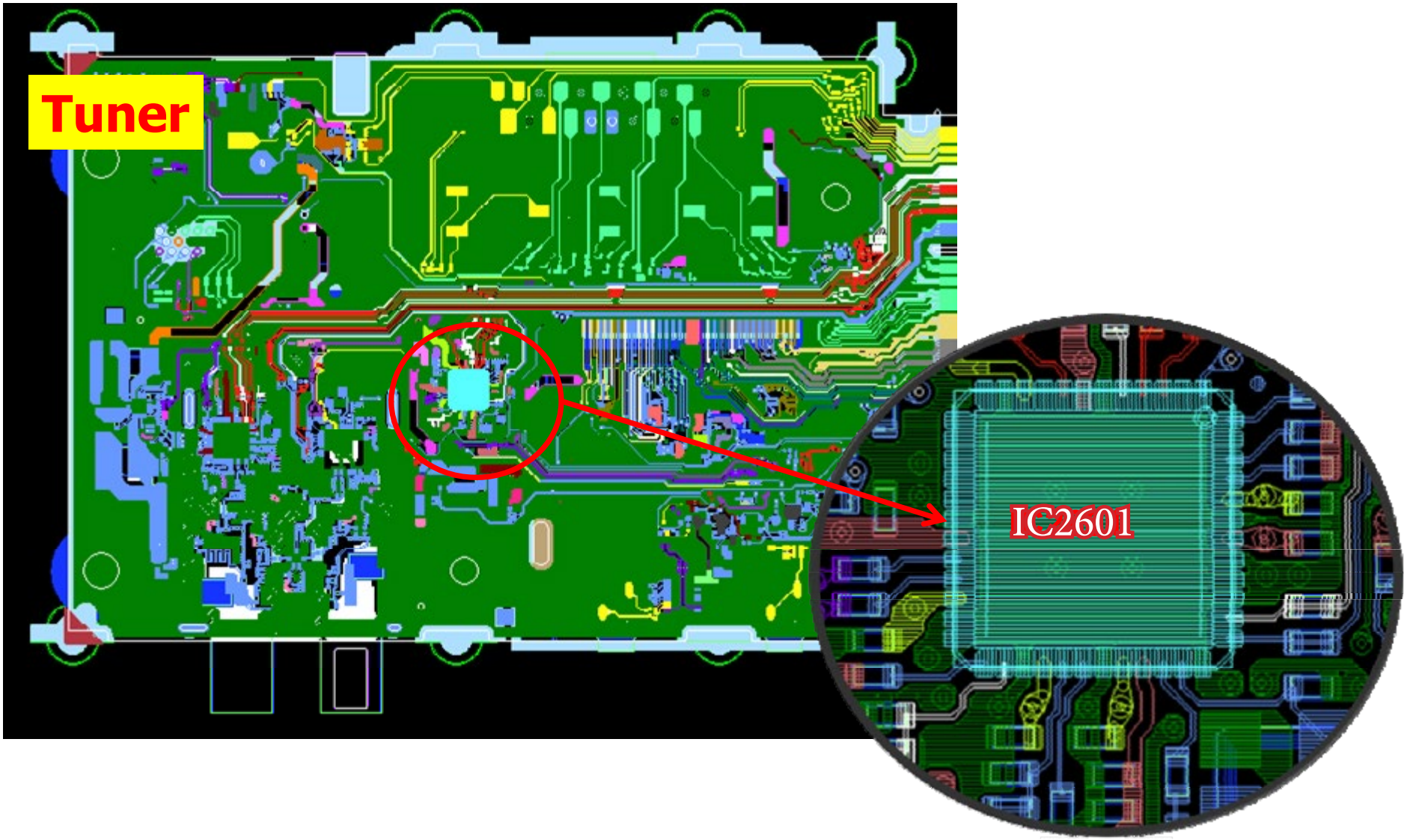
TUS BOARD



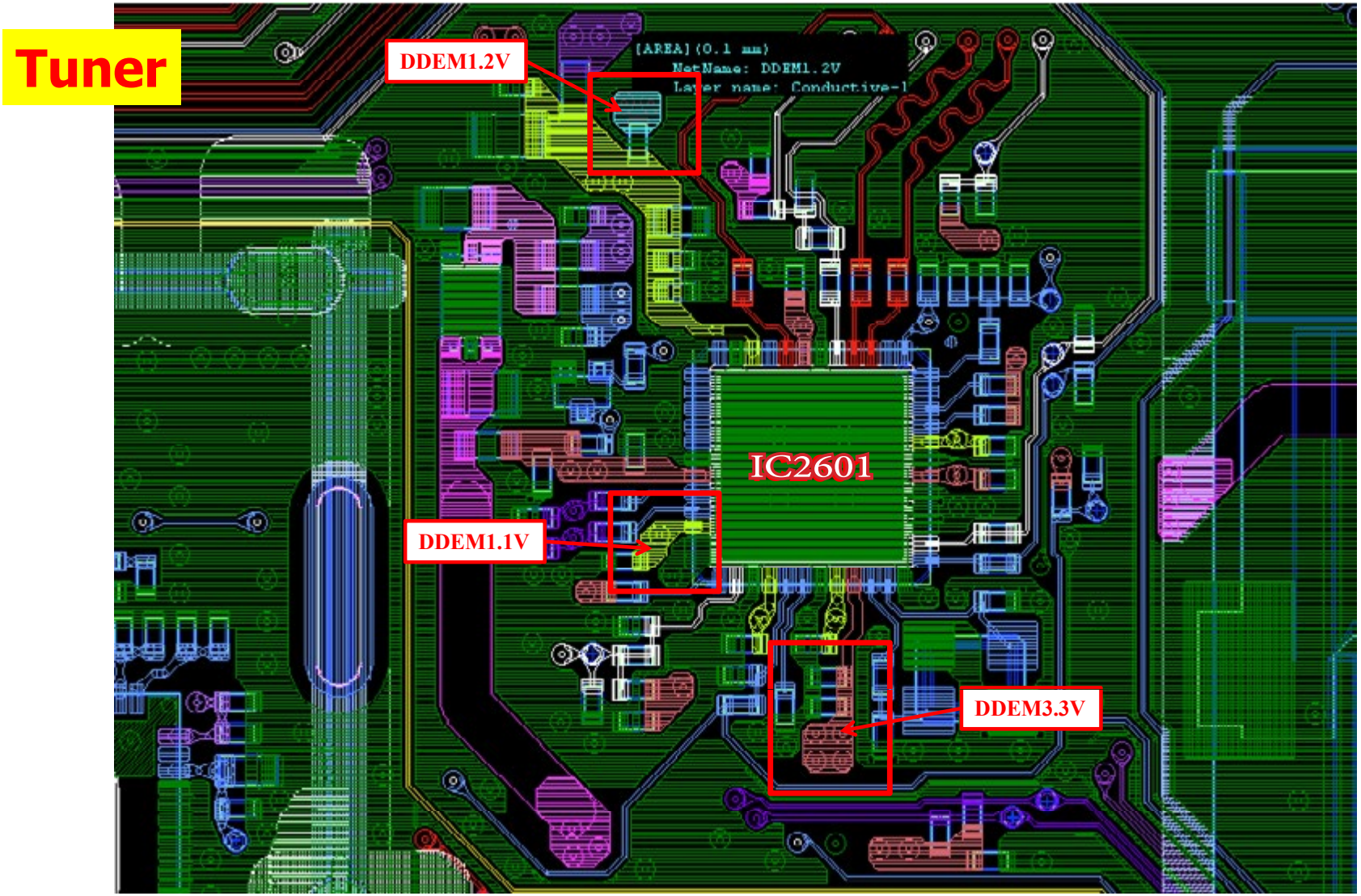
TUS BOARD



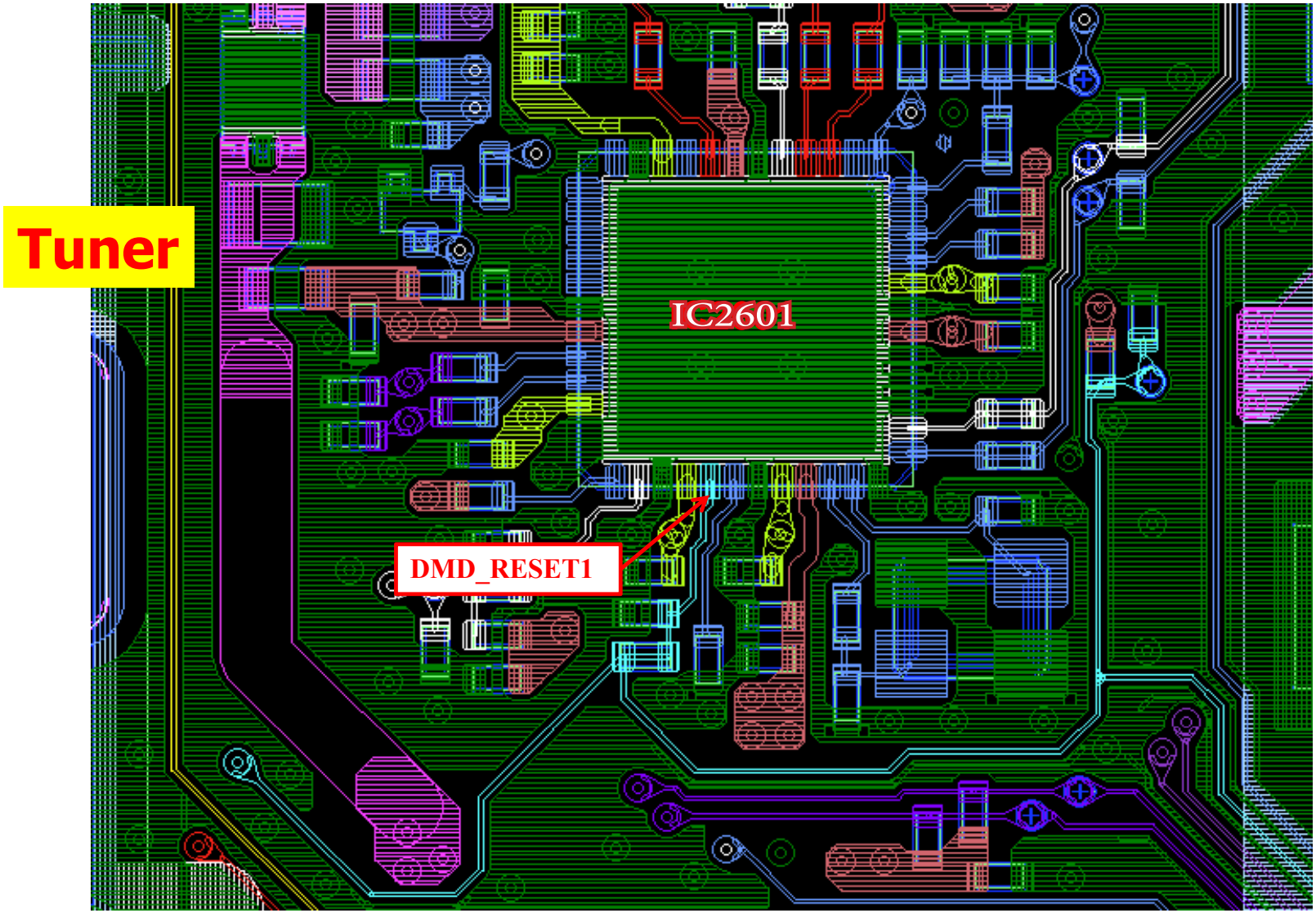
TUS BOARD



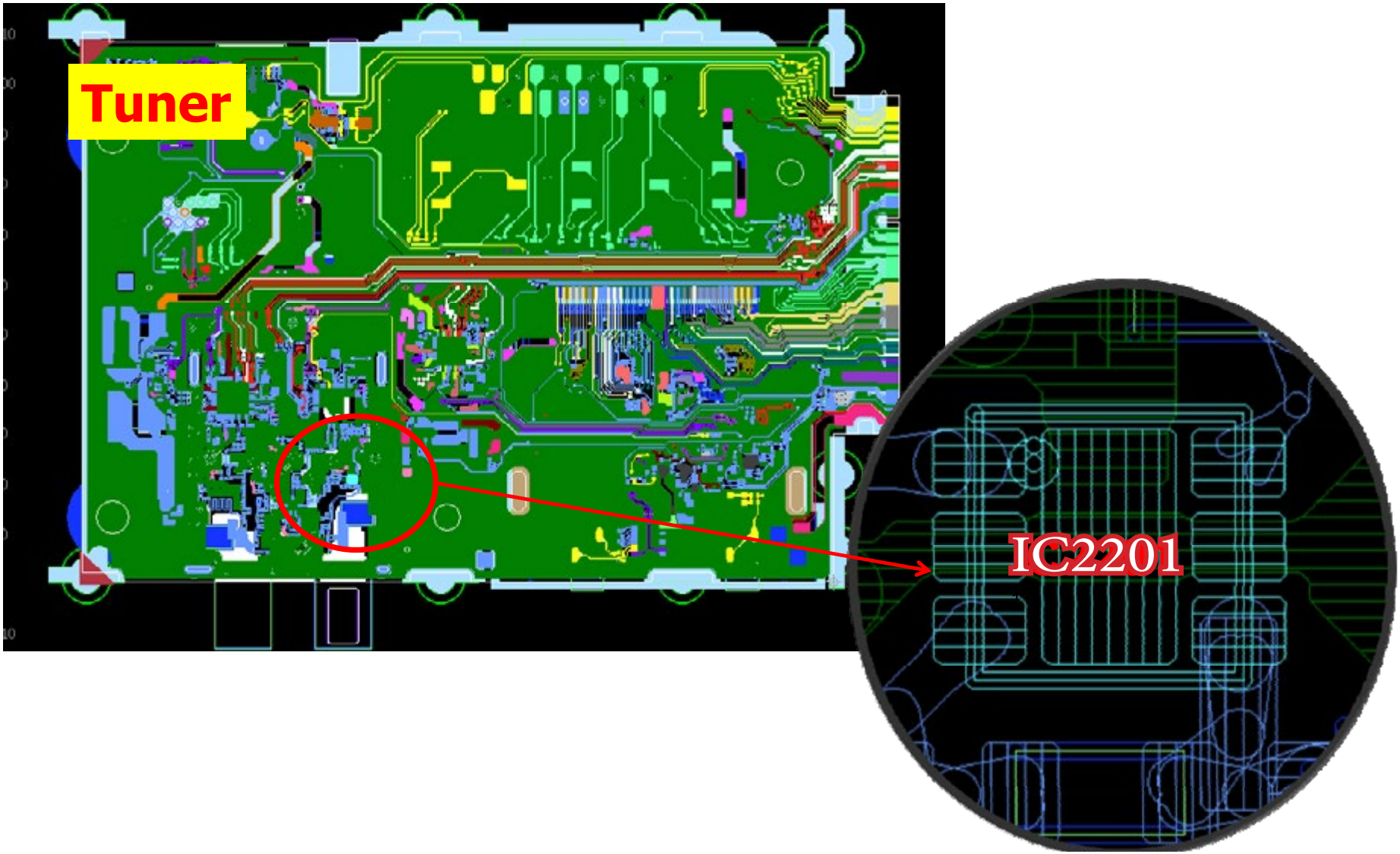
TUS BOARD


Tuner
DDEM1.2V
[AREA](0.1 mm)
NetName: DDEM1.2V
Layer name: Conductive-1
IC2601
DDEM1.1V
DDEM3.3V

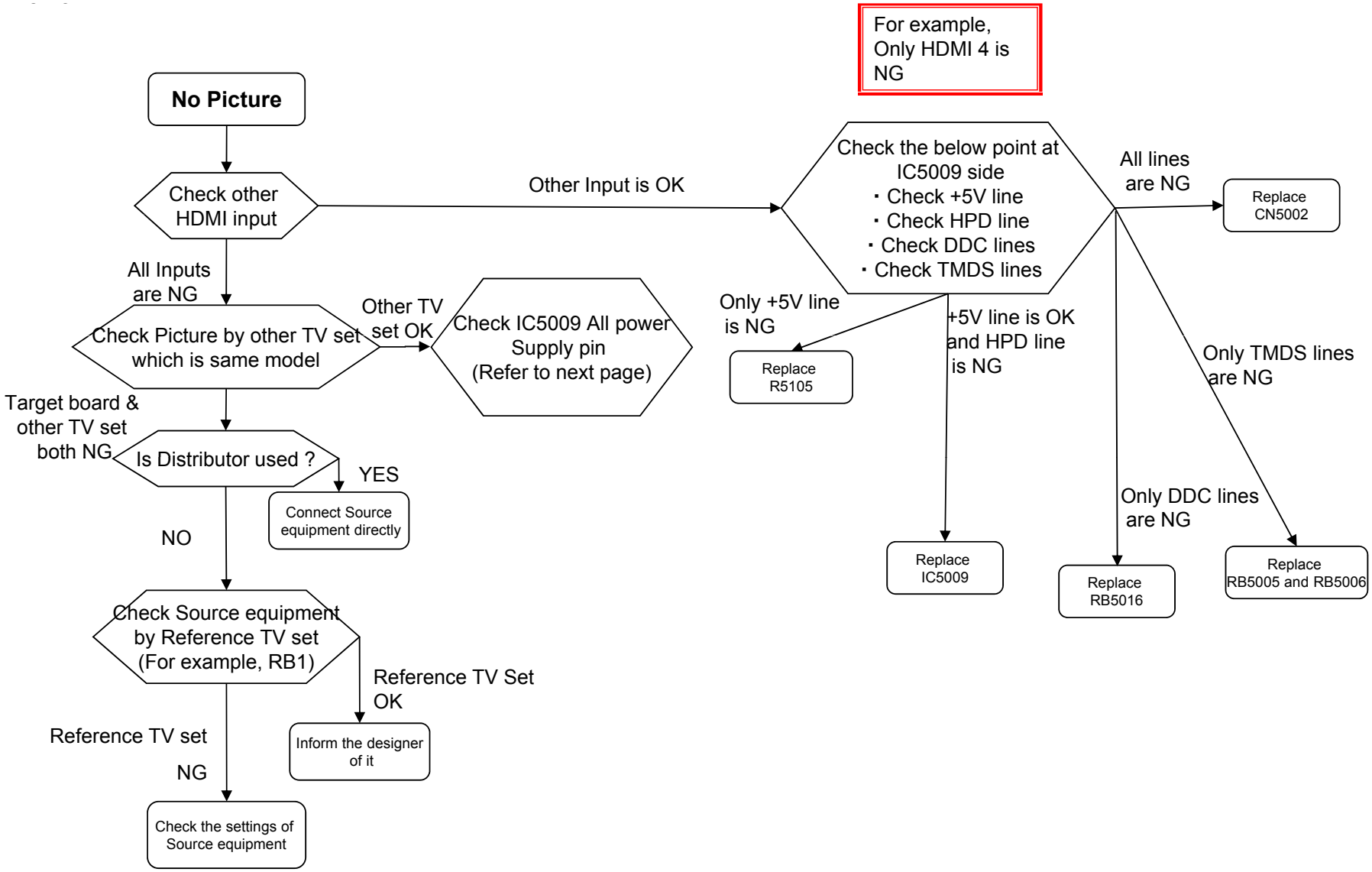
TUS BOARD



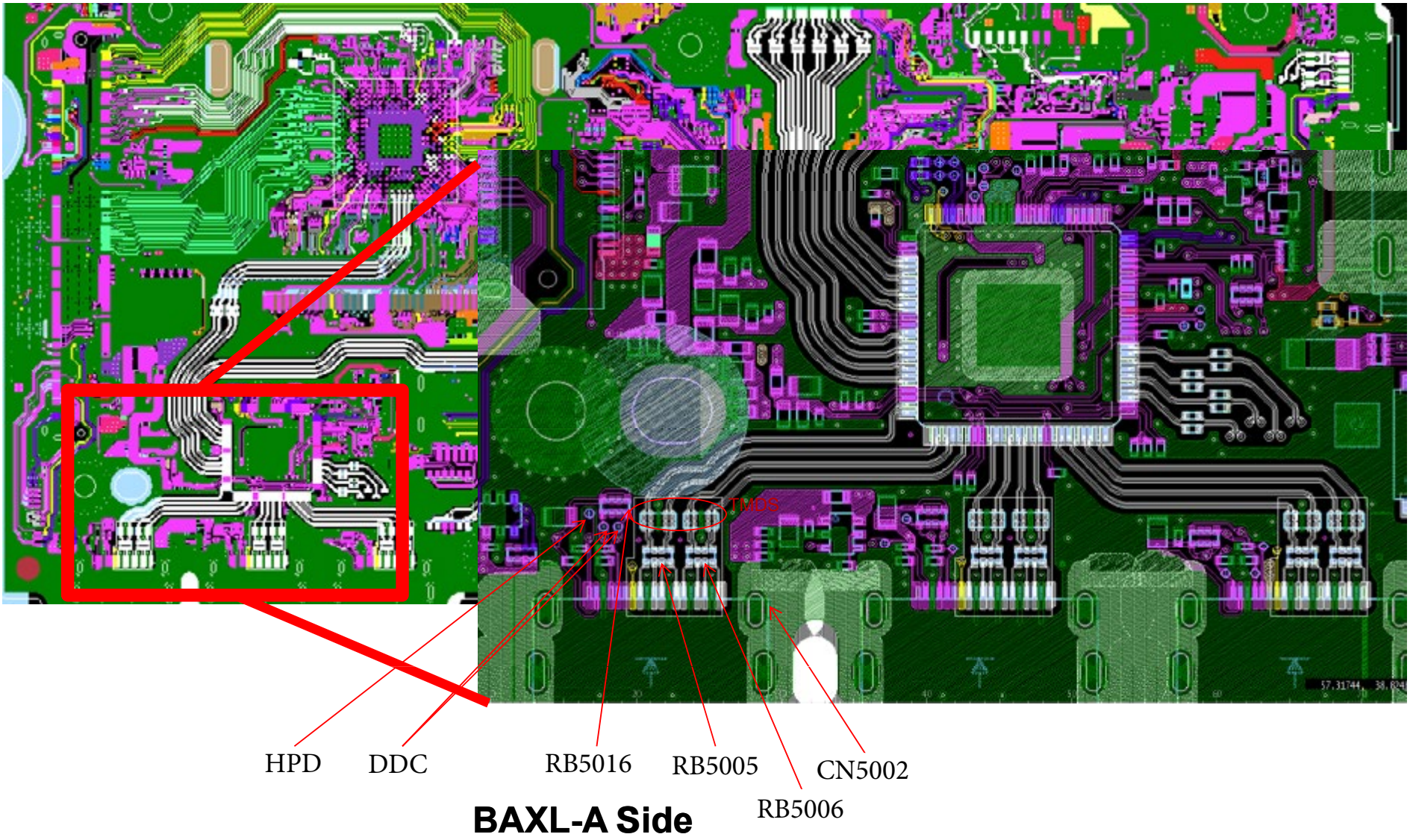
TUS BOARD



2.5-5 - NO PICTURE: HDMI

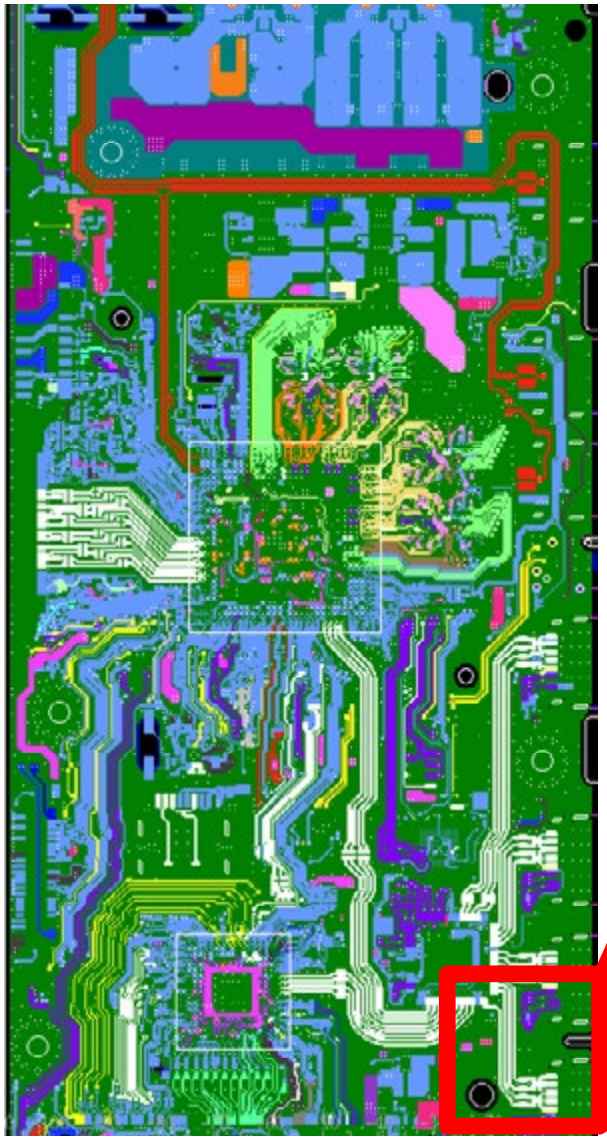


BAX-L BOARD (Side A)

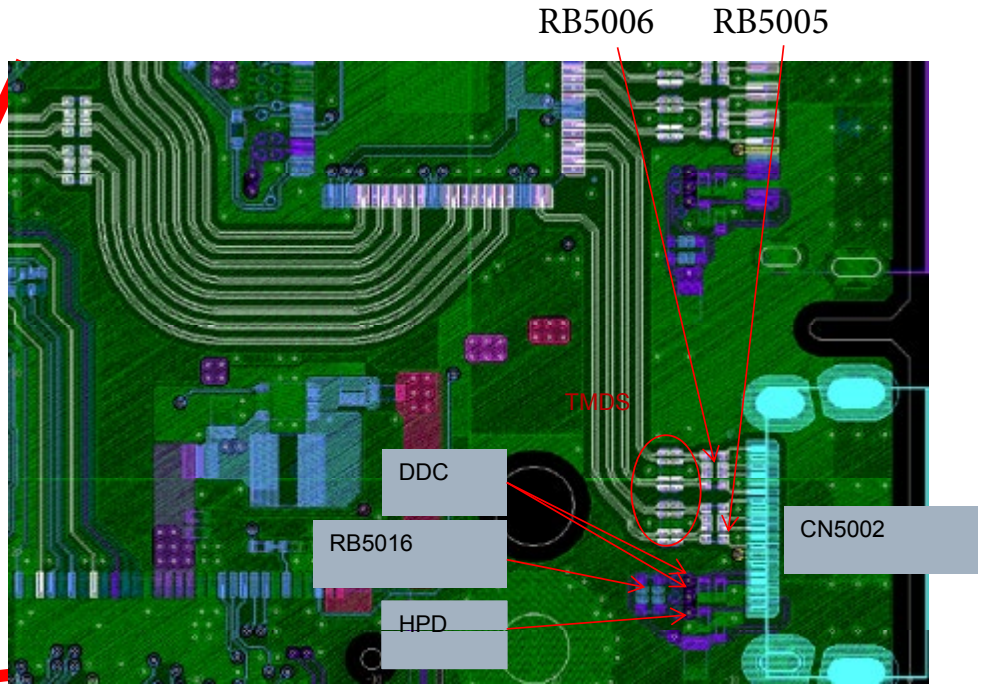


BAXL-A Side

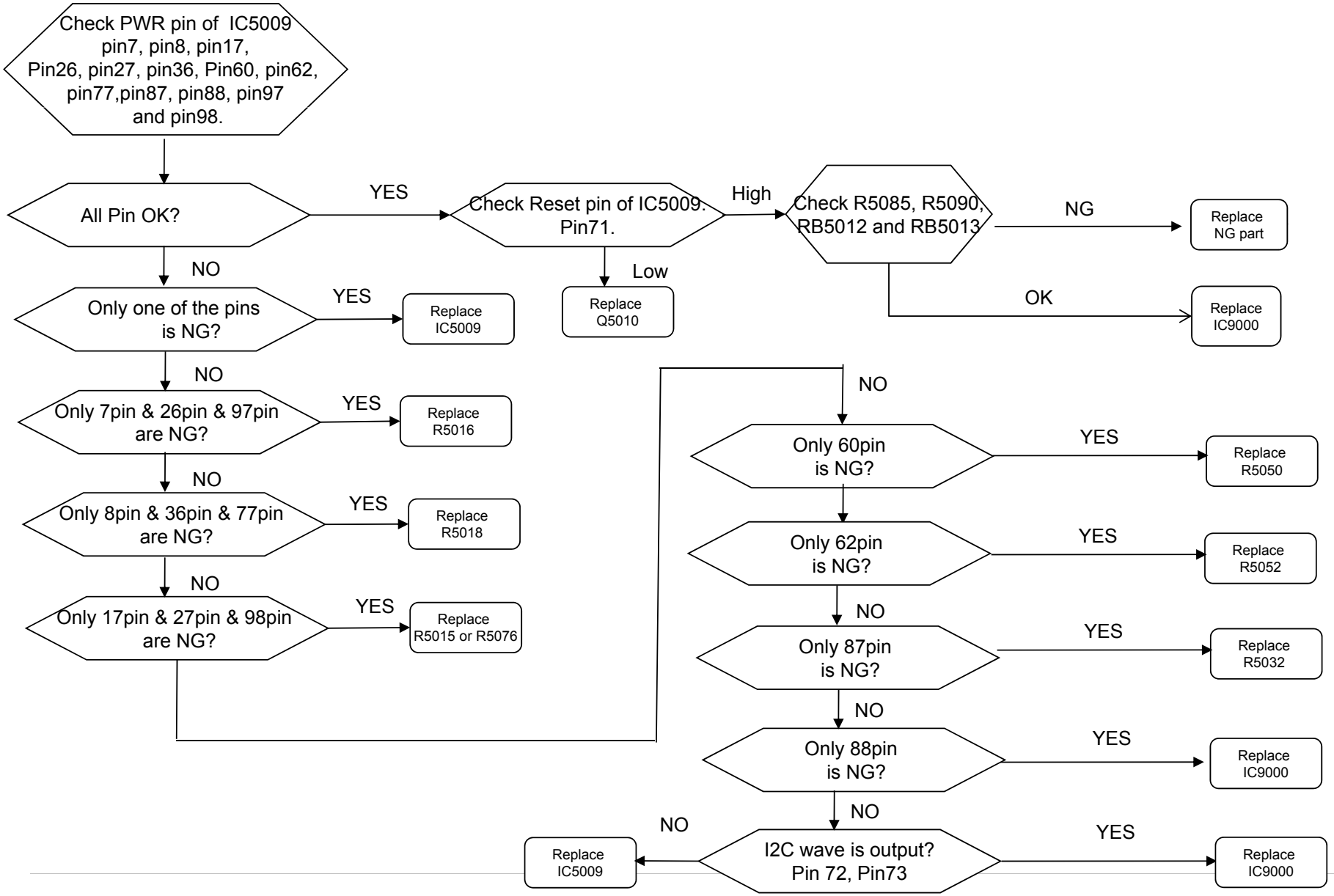
BAX BOARD (Side A)



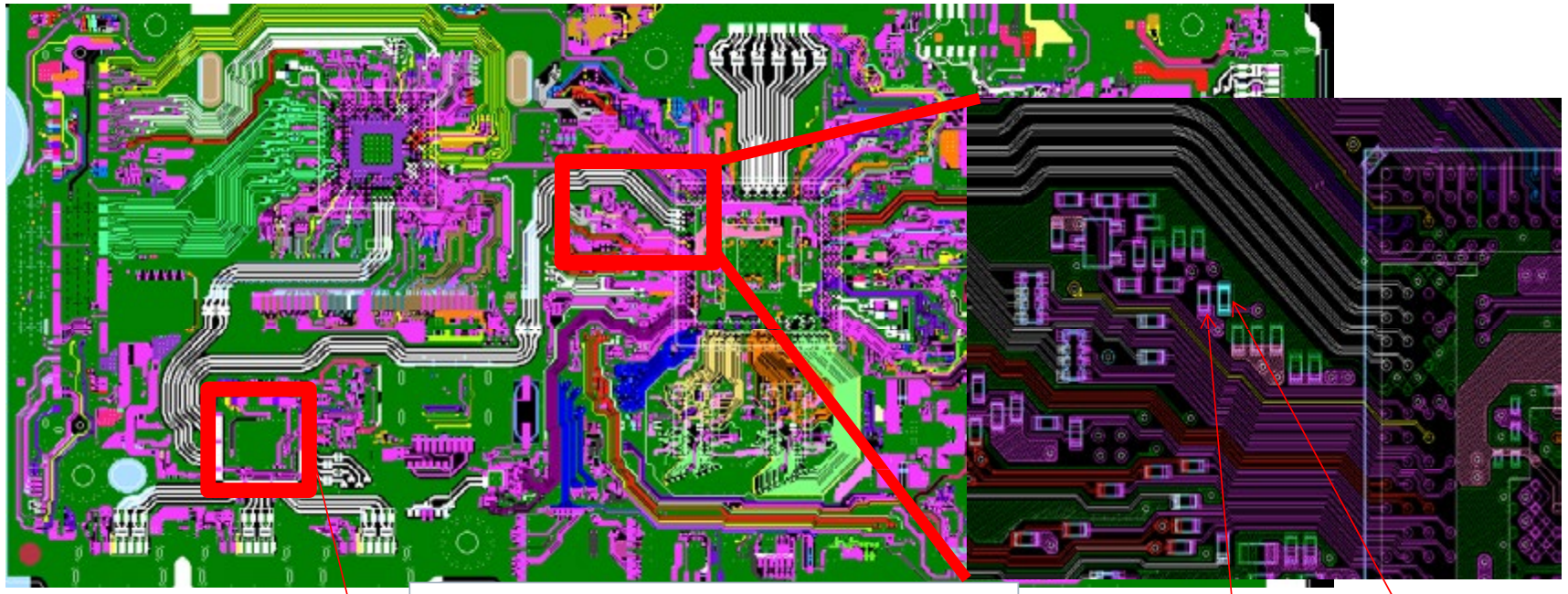
BAX-A Side



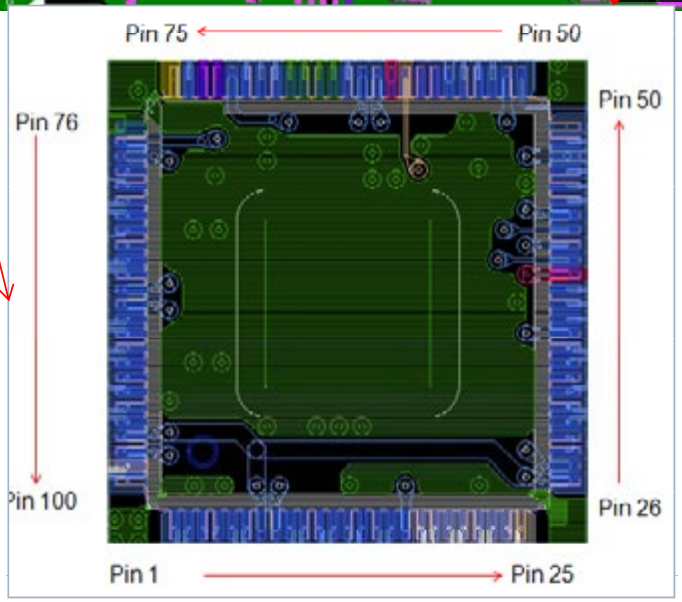
2.5-6 - NO PICTURE: HDMI (BAX-L & BAX BOARD)



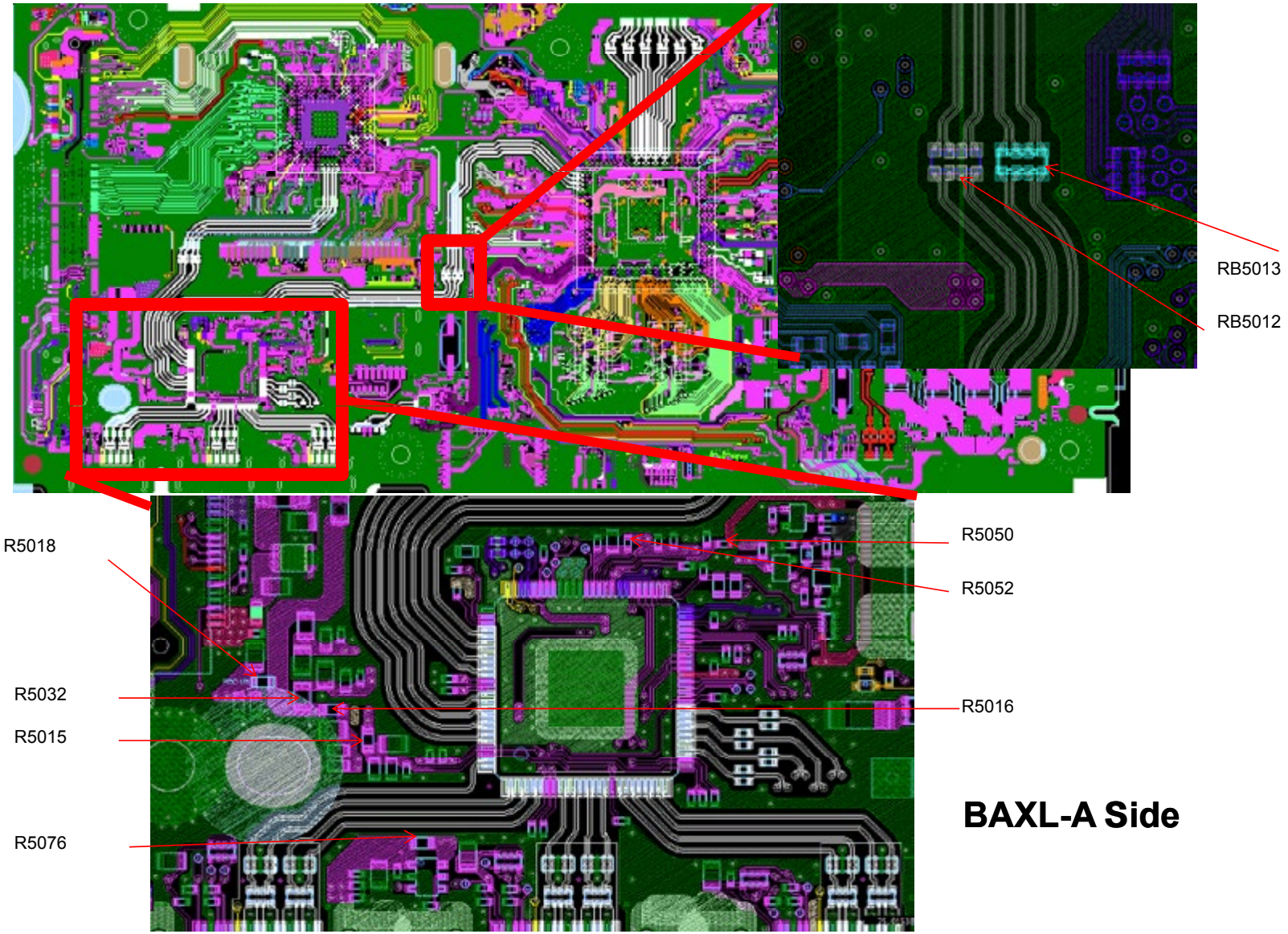
BAX-L BOARD (Side A)



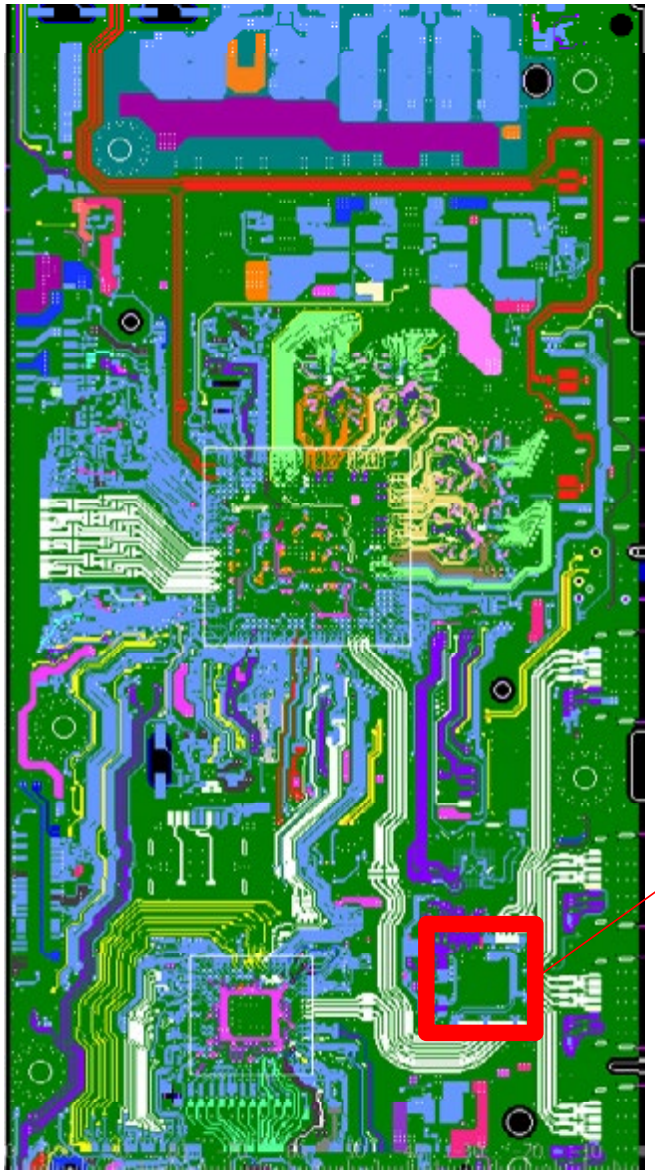
BAXL-A Side



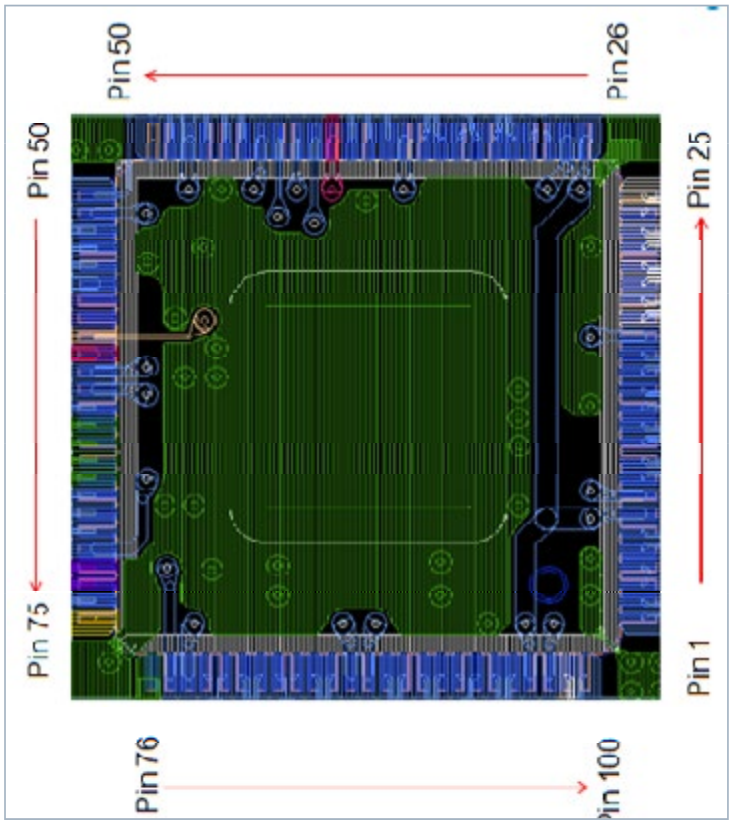
BAX-L BOARD (Side A)



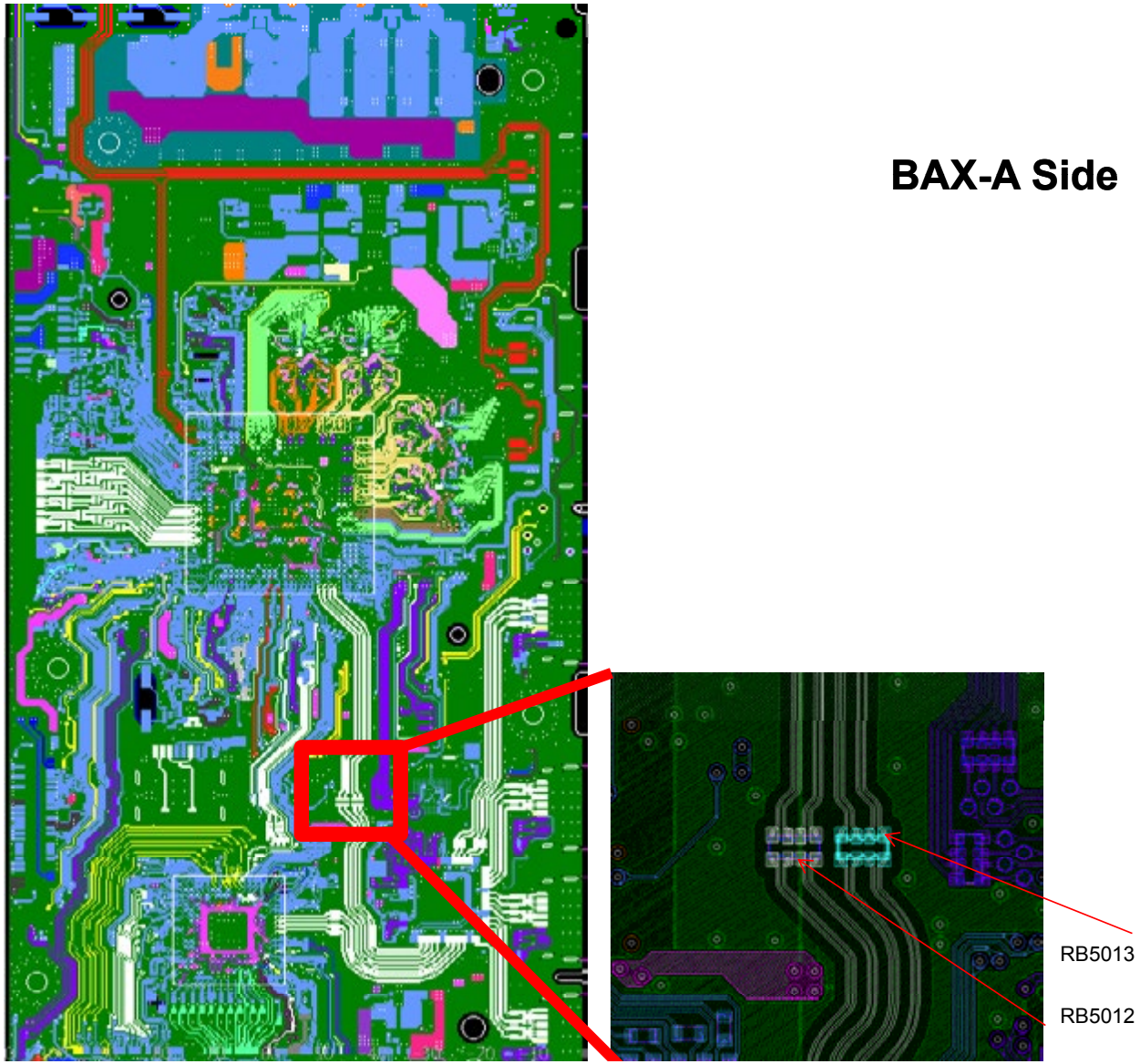
BAX BOARD (Side A)



BAX-A Side

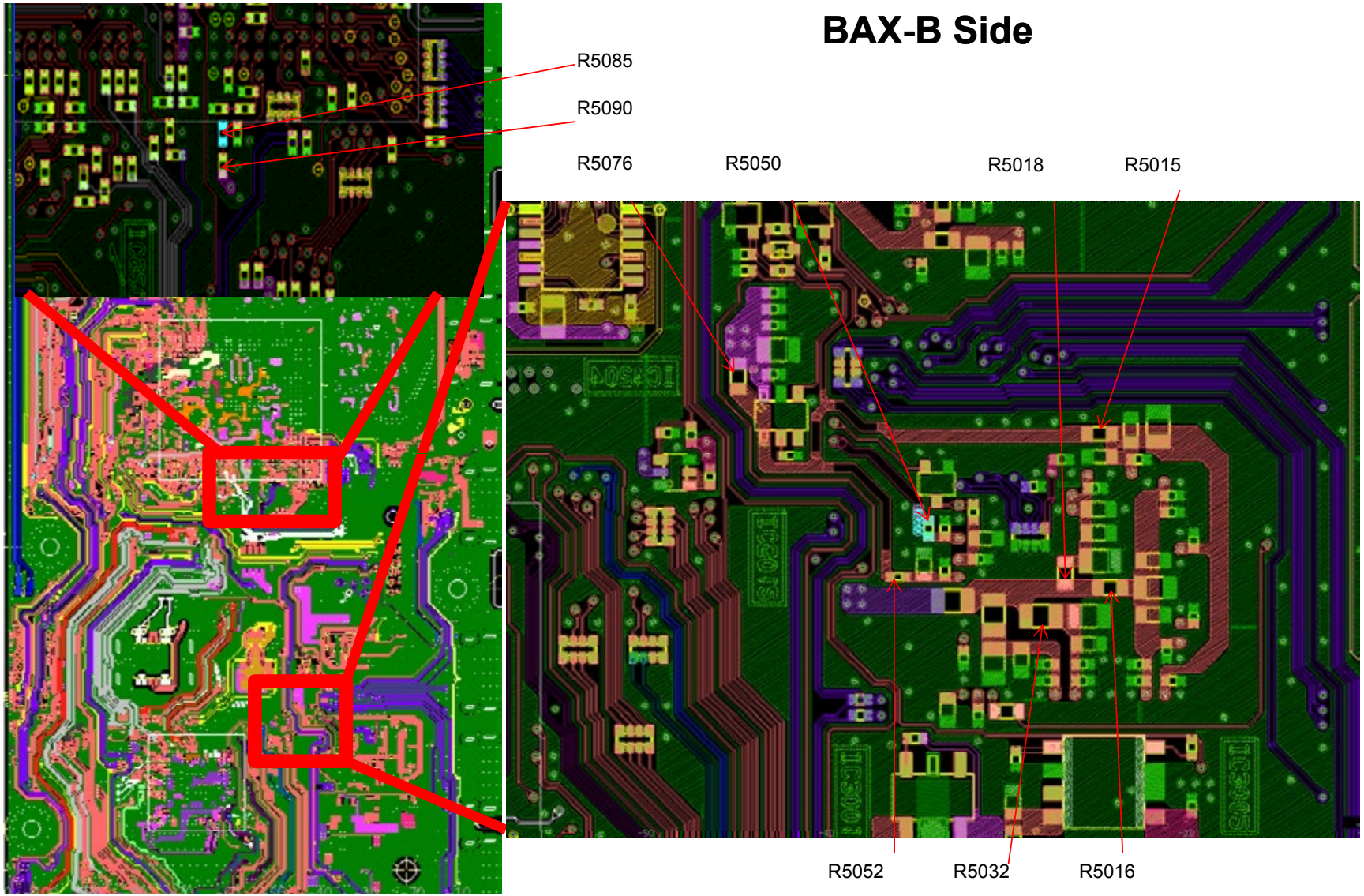


BAX BOARD (Side A)

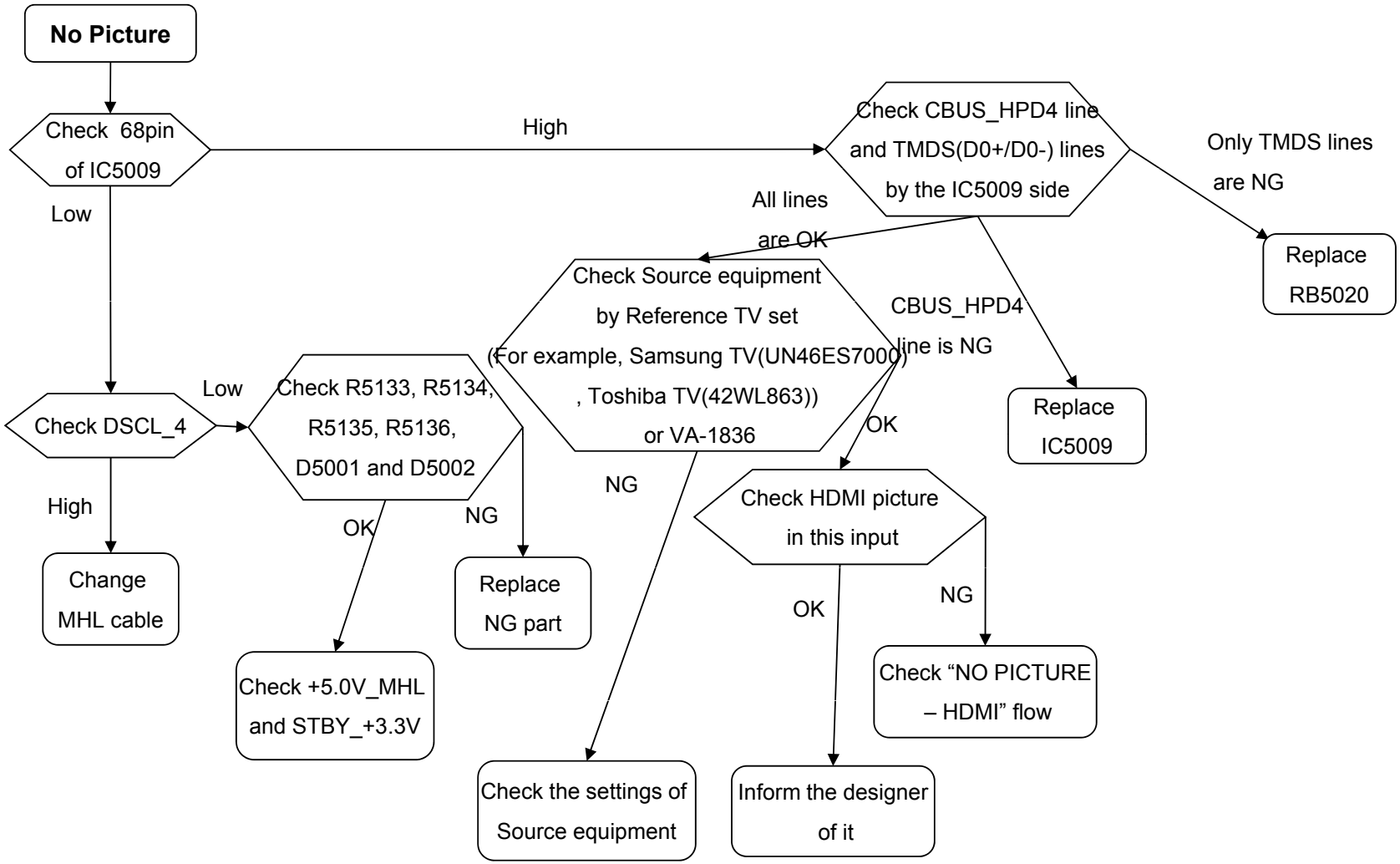


BAX-A Side

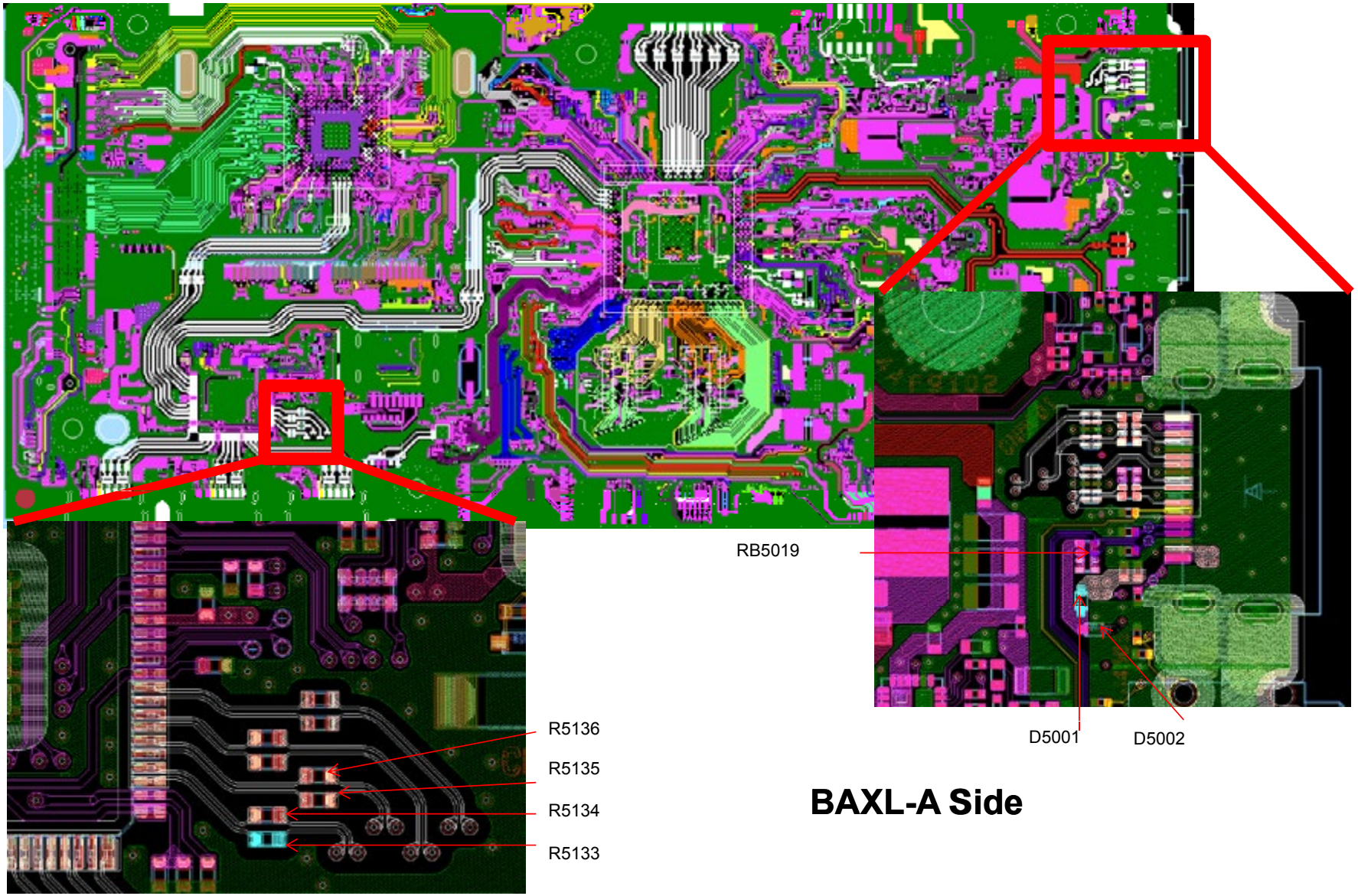
BAX BOARD (Side B)



2.5-7 - NO PICTURE: MHL (BAX-L)

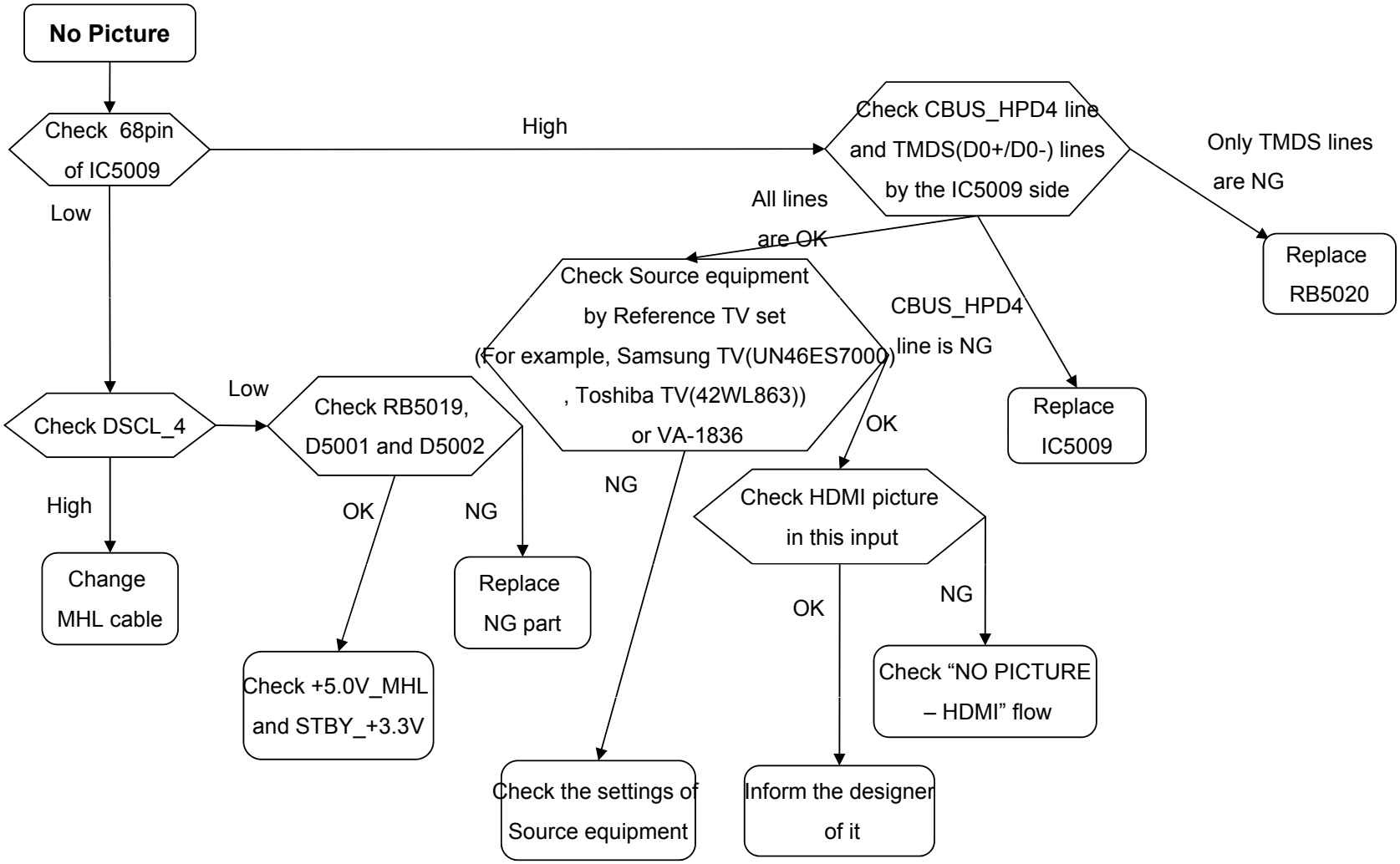


BAX-L BOARD (Side A)

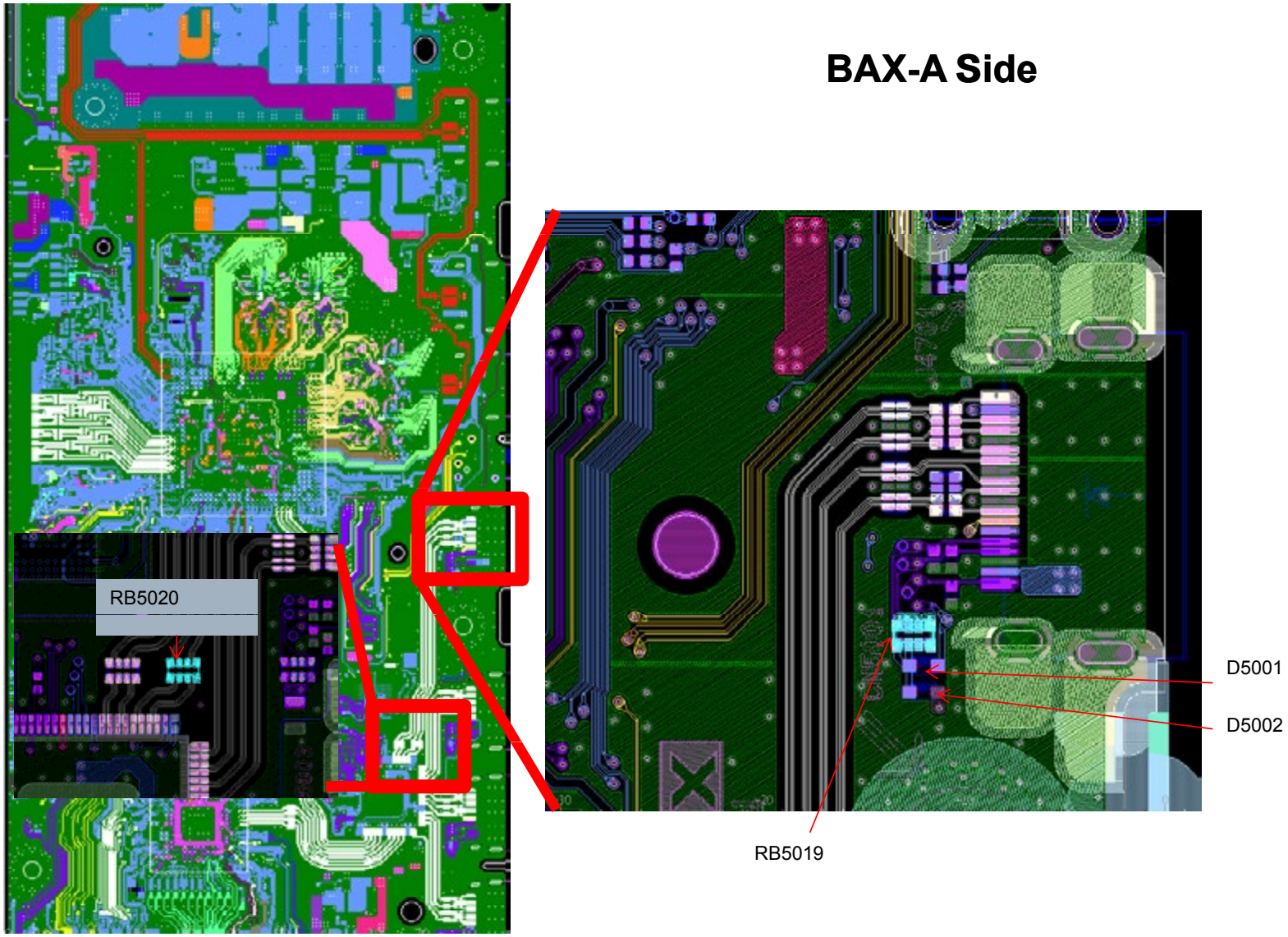


BAXL-A Side

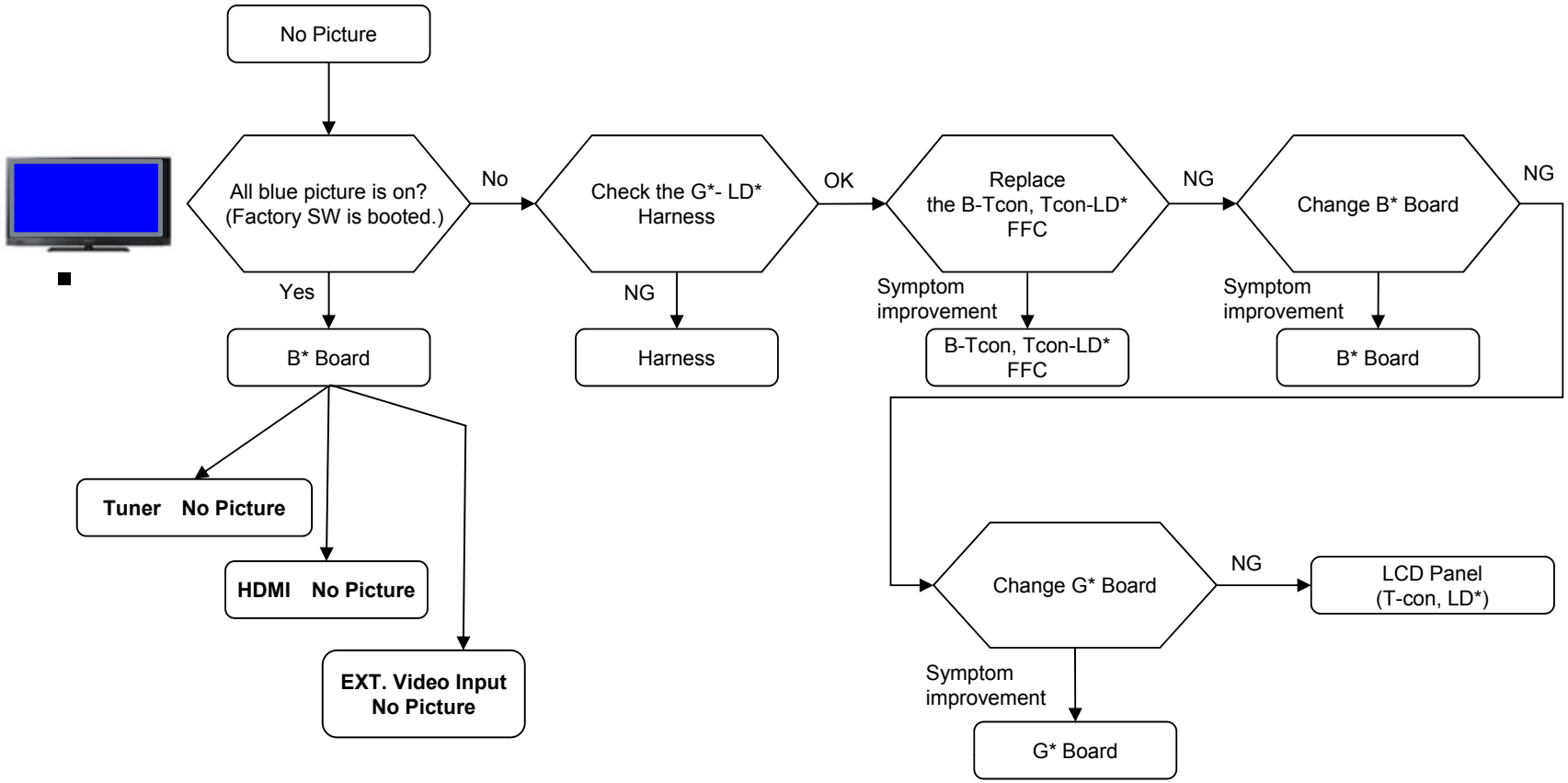
2.5-8 - NO PICTURE: MHL (BAX)



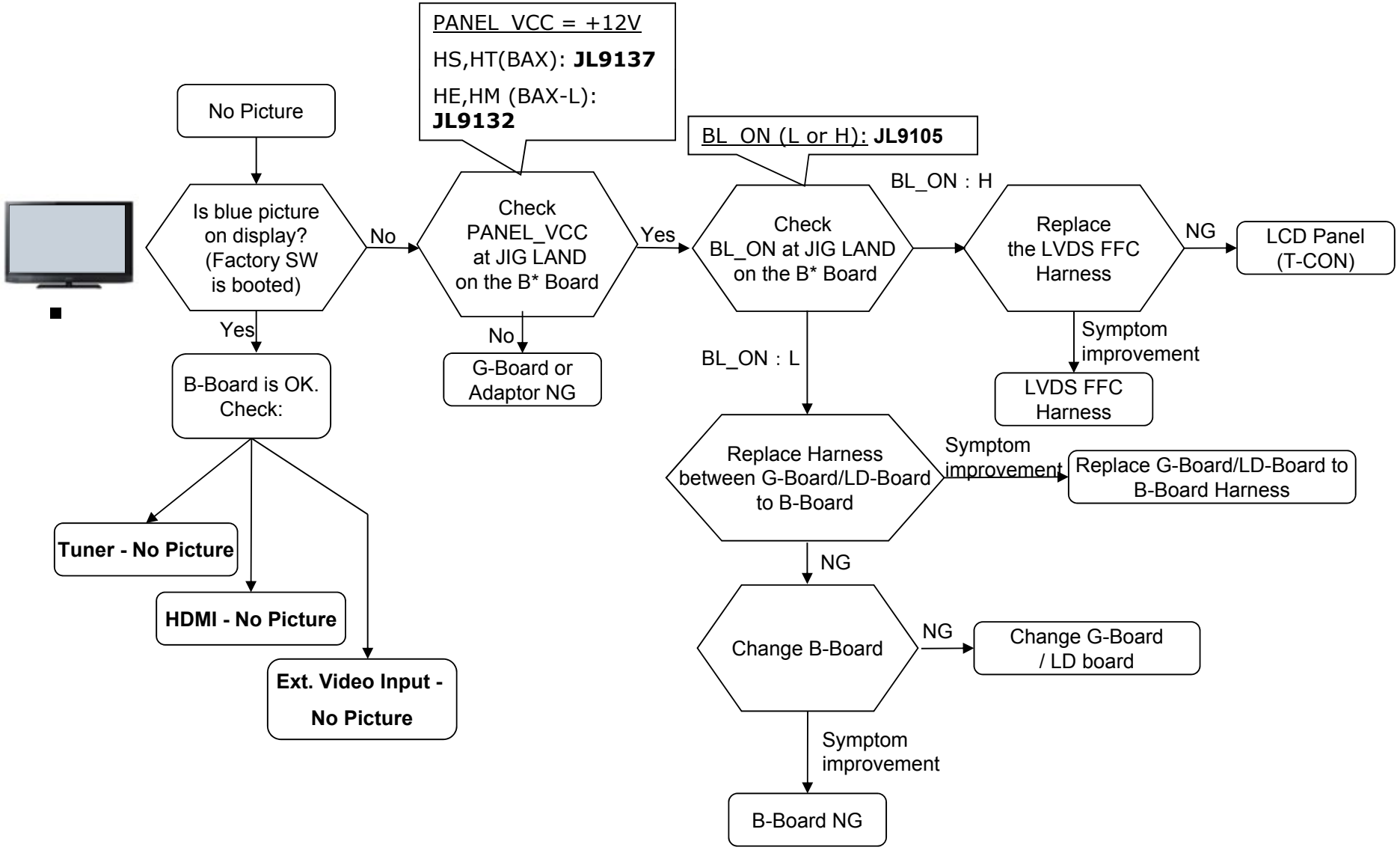
BAX BOARD (Side A)



2.5-9 - NO PICTURE: LD MODELS ONLY

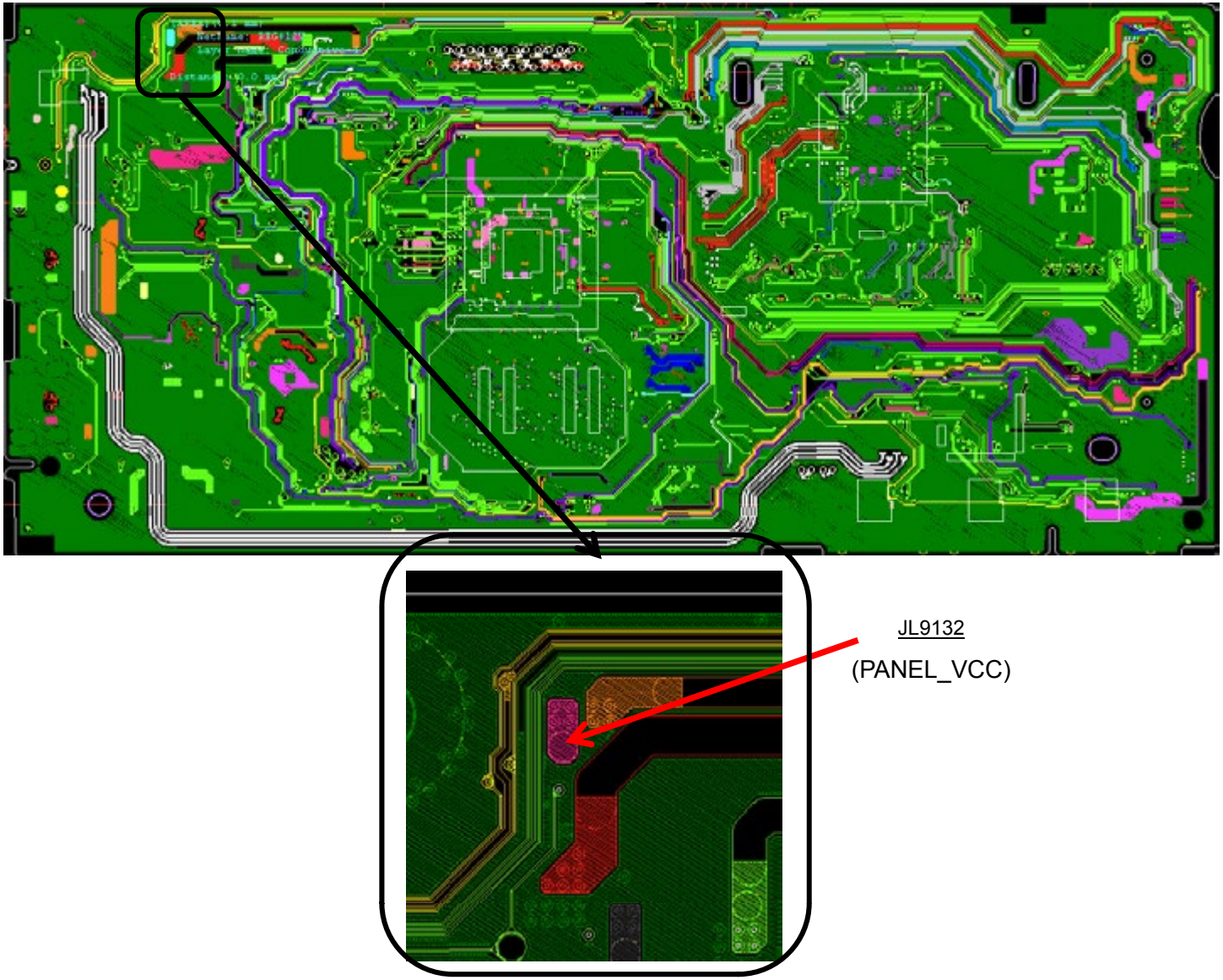


2.5-10 - NO PICTURE: ALL MODEL



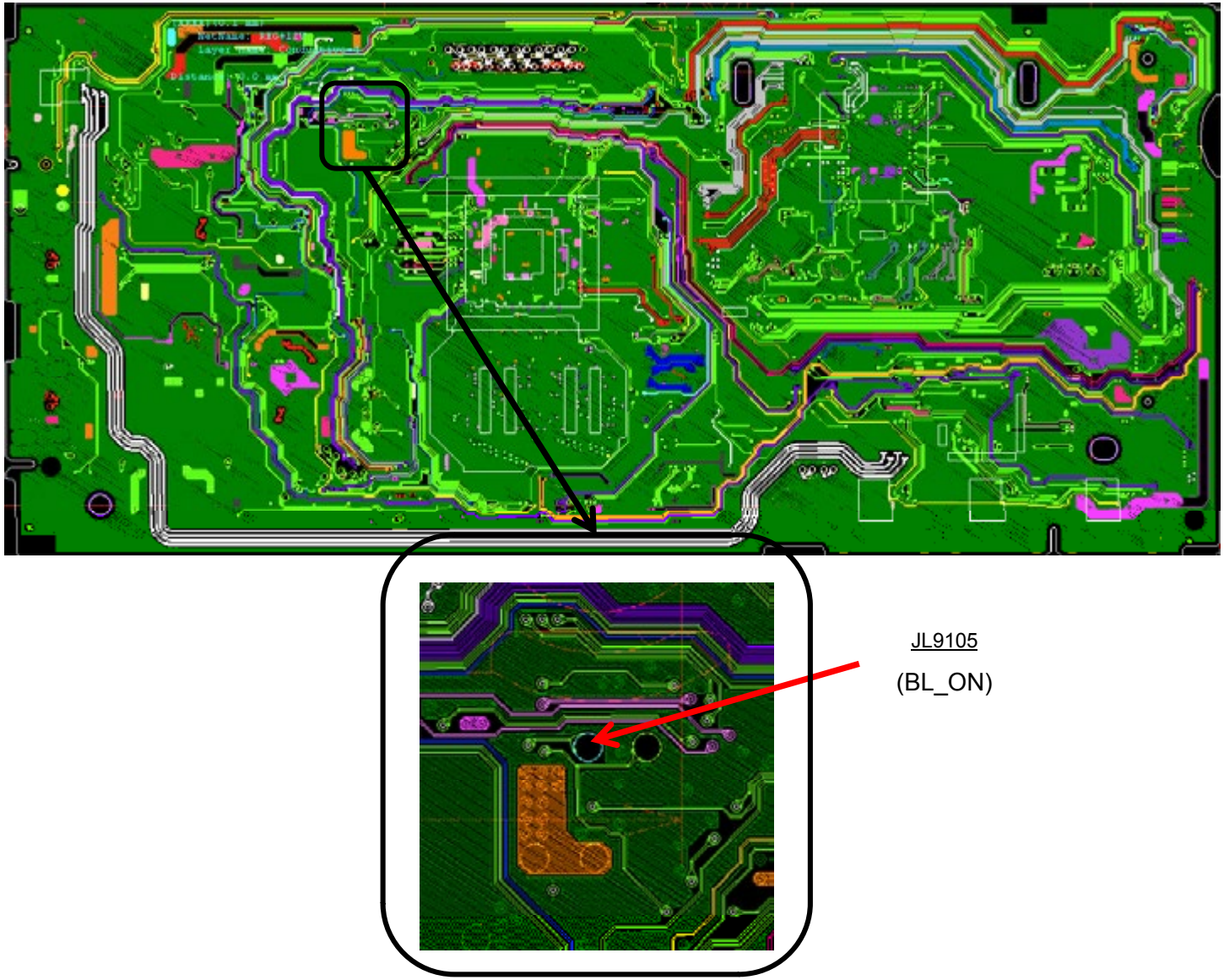
BAX-L BOARD (Side A)

BAX-L PROBING POINTS



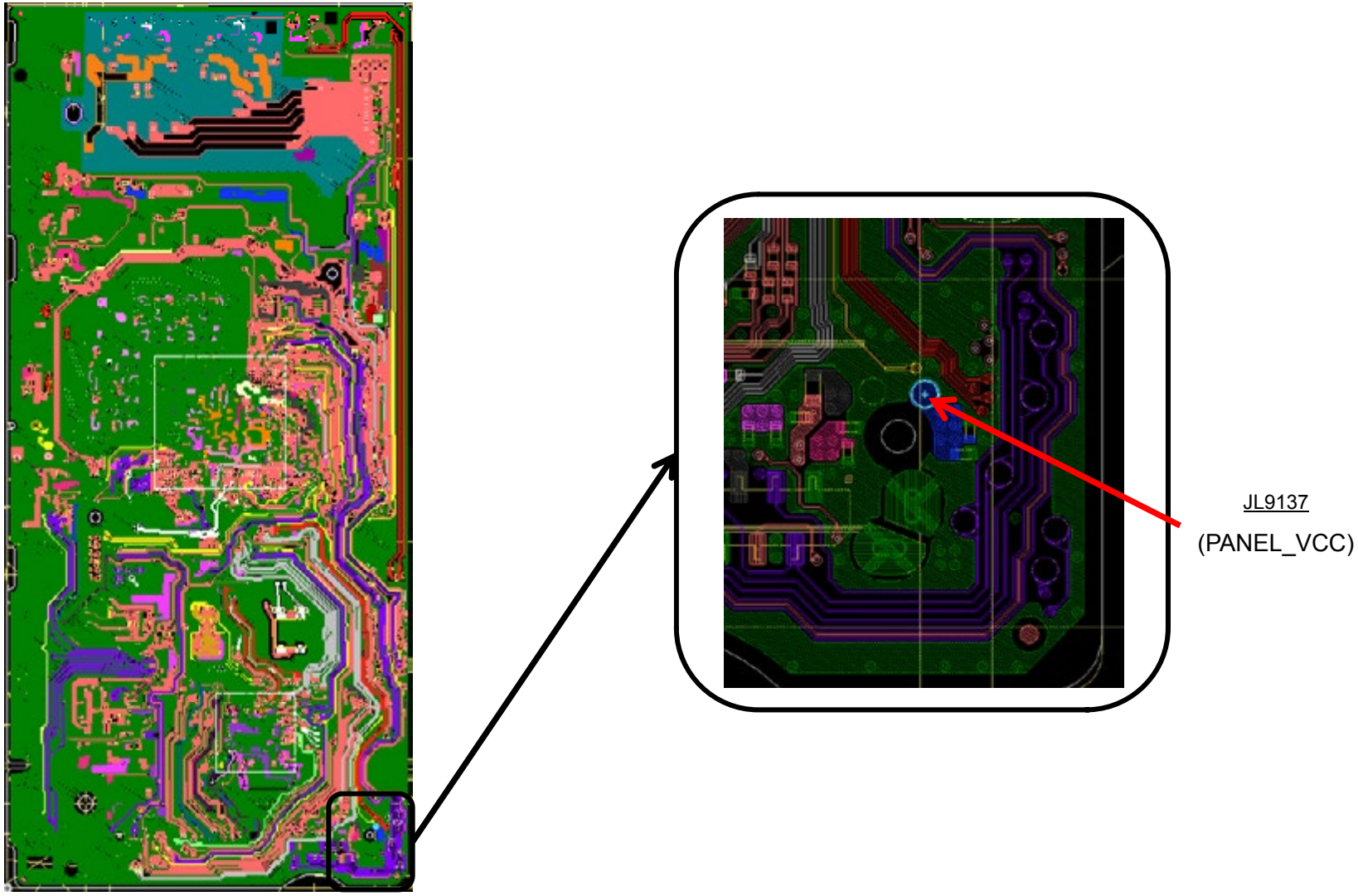
BAX-L BOARD (Side B)

BAX-L PROBING POINTS



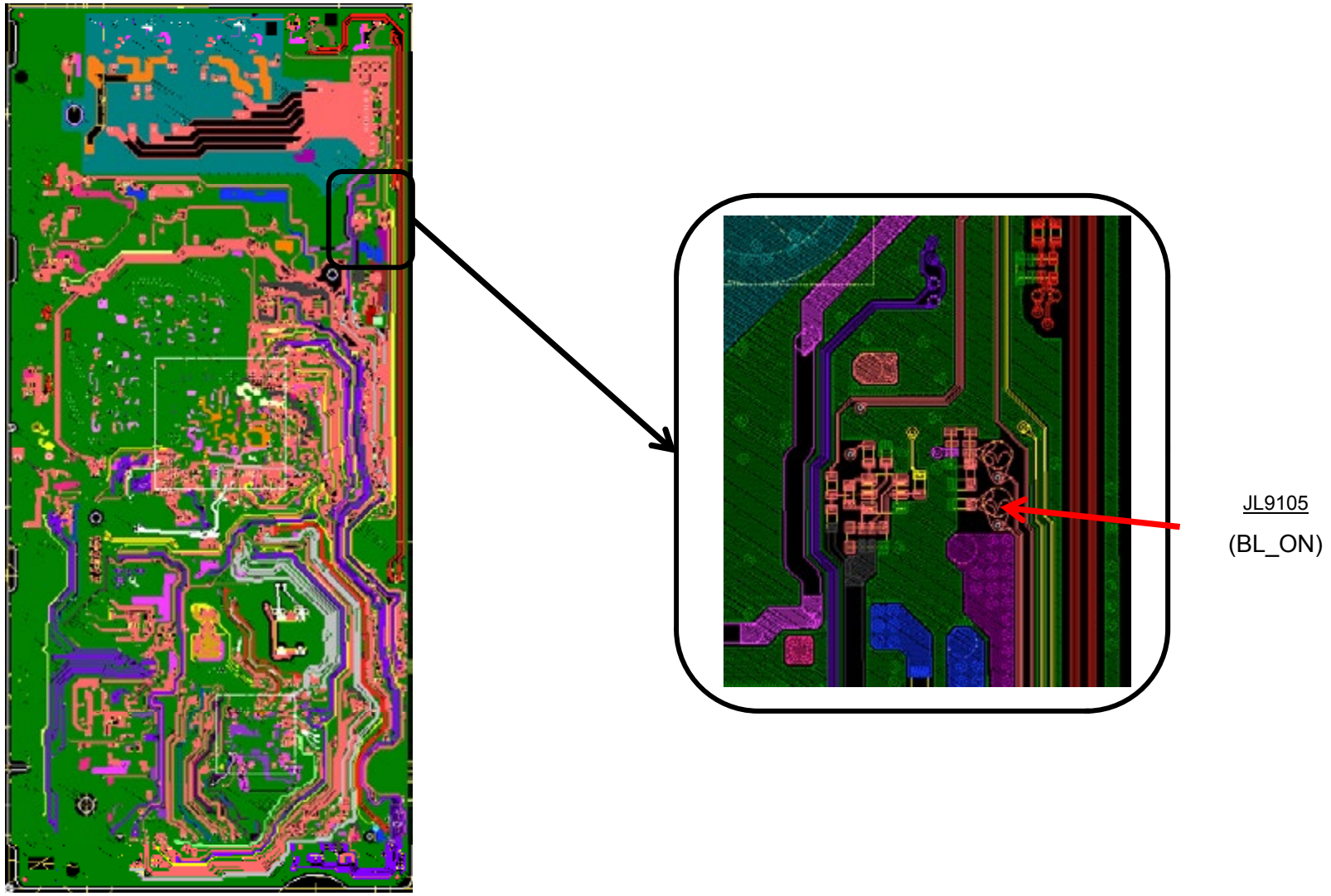
BAX BOARD (Side B)

BAX PROBING POINTS

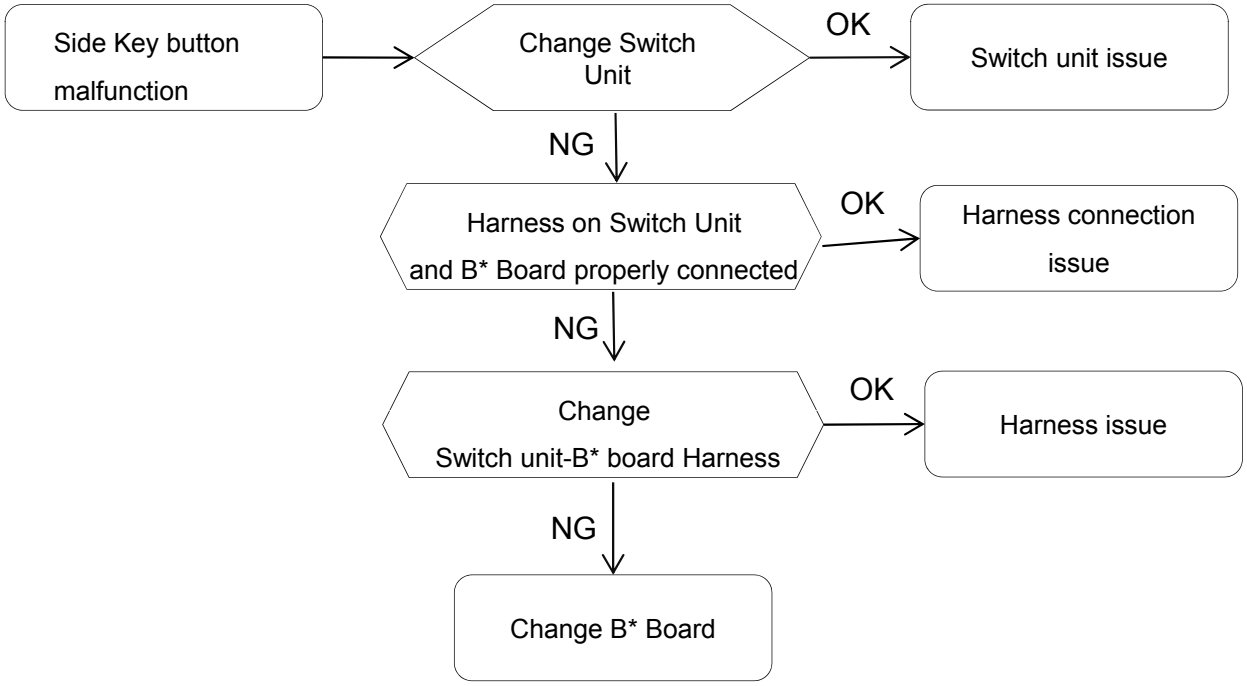


BAX BOARD (Side B)

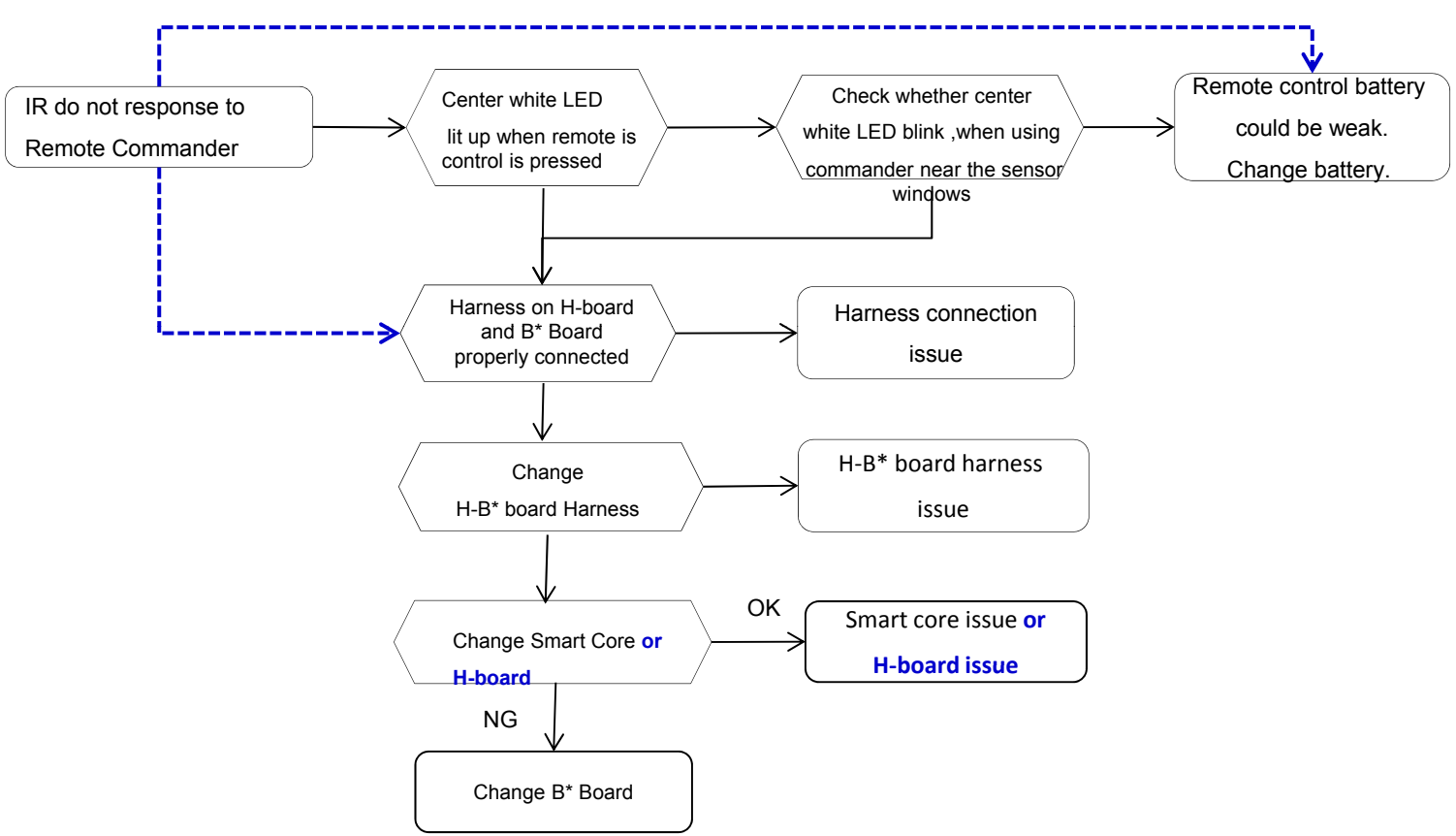
BAX PROBING POINTS



2.6 - SIDE BUTTONS MALFUNCTION



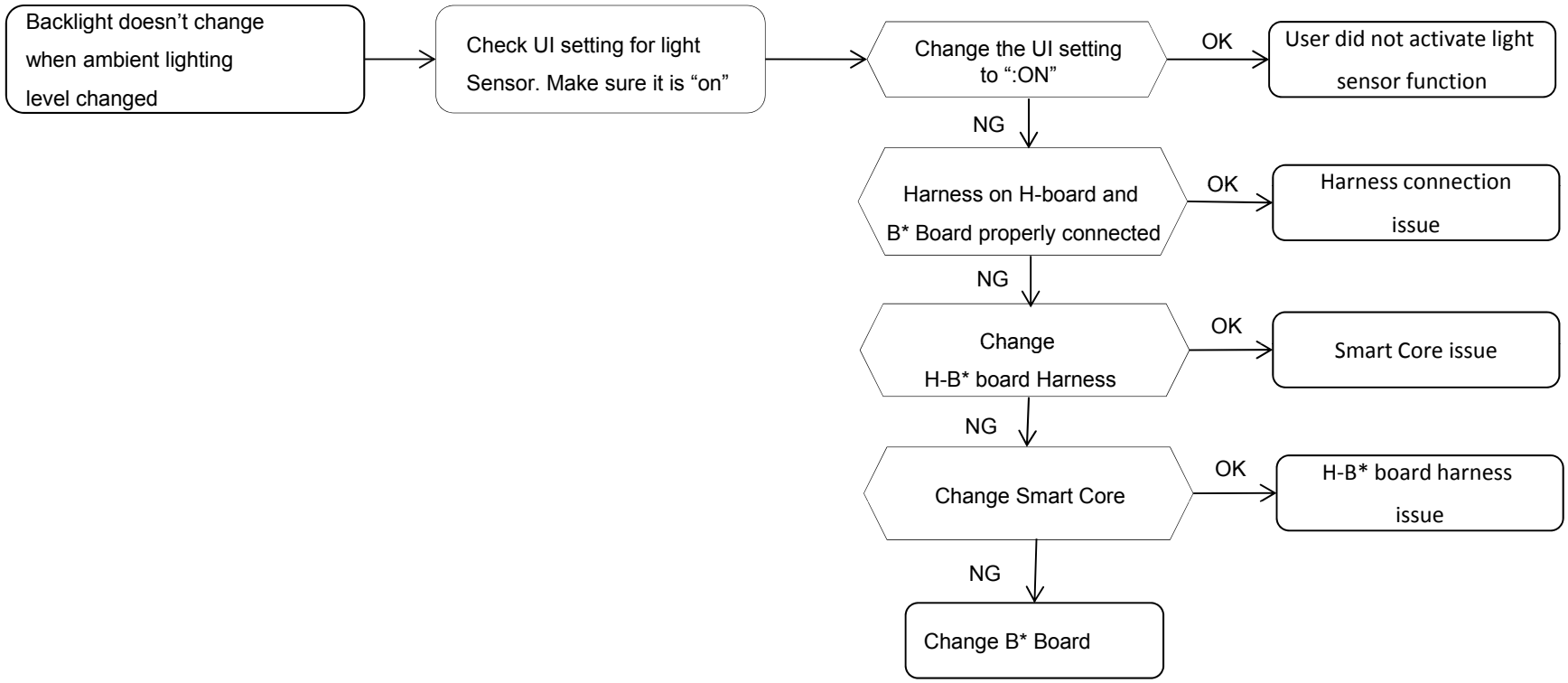
2.7 *



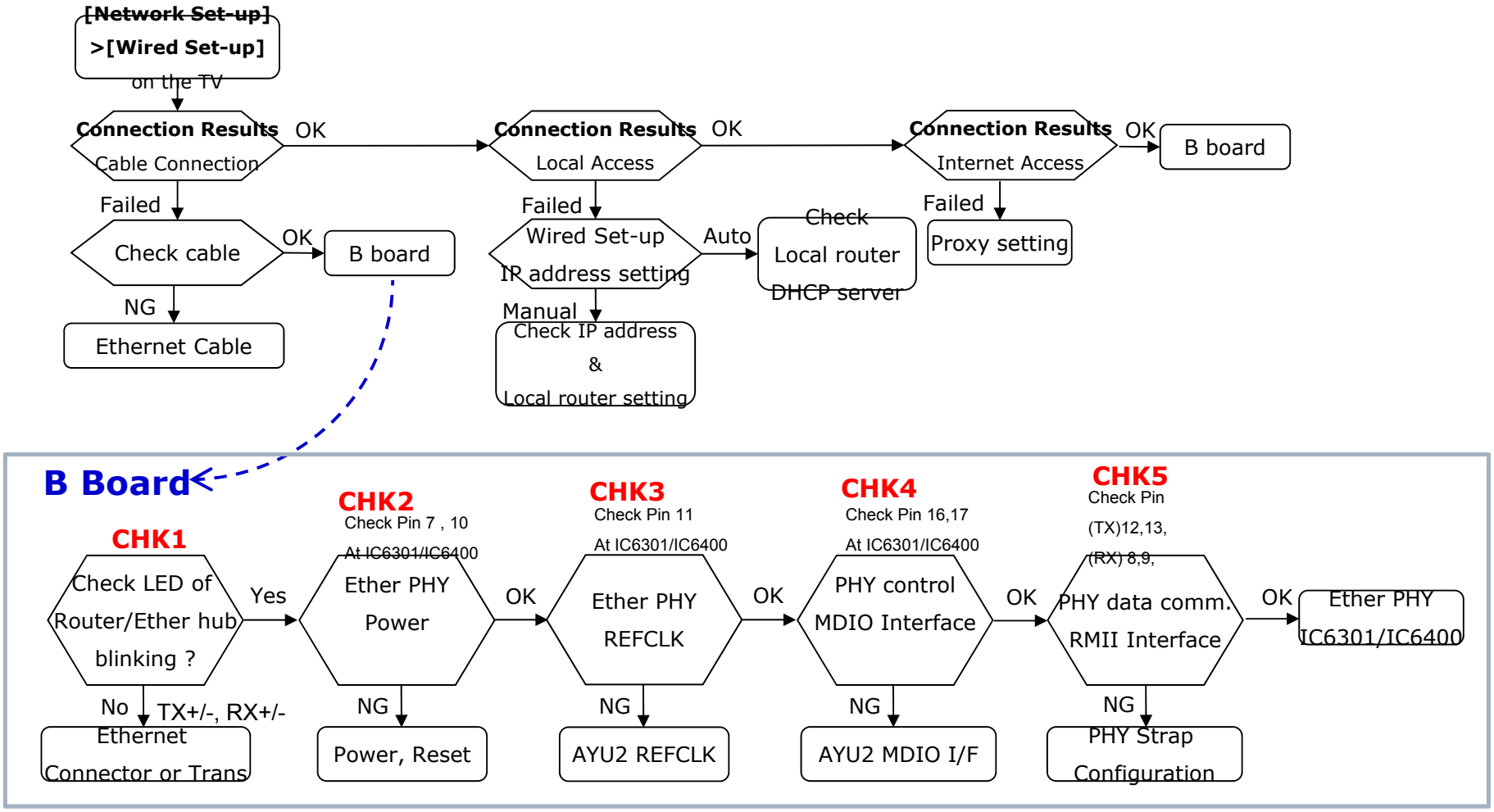
Note:

Blue line/font for HM segment

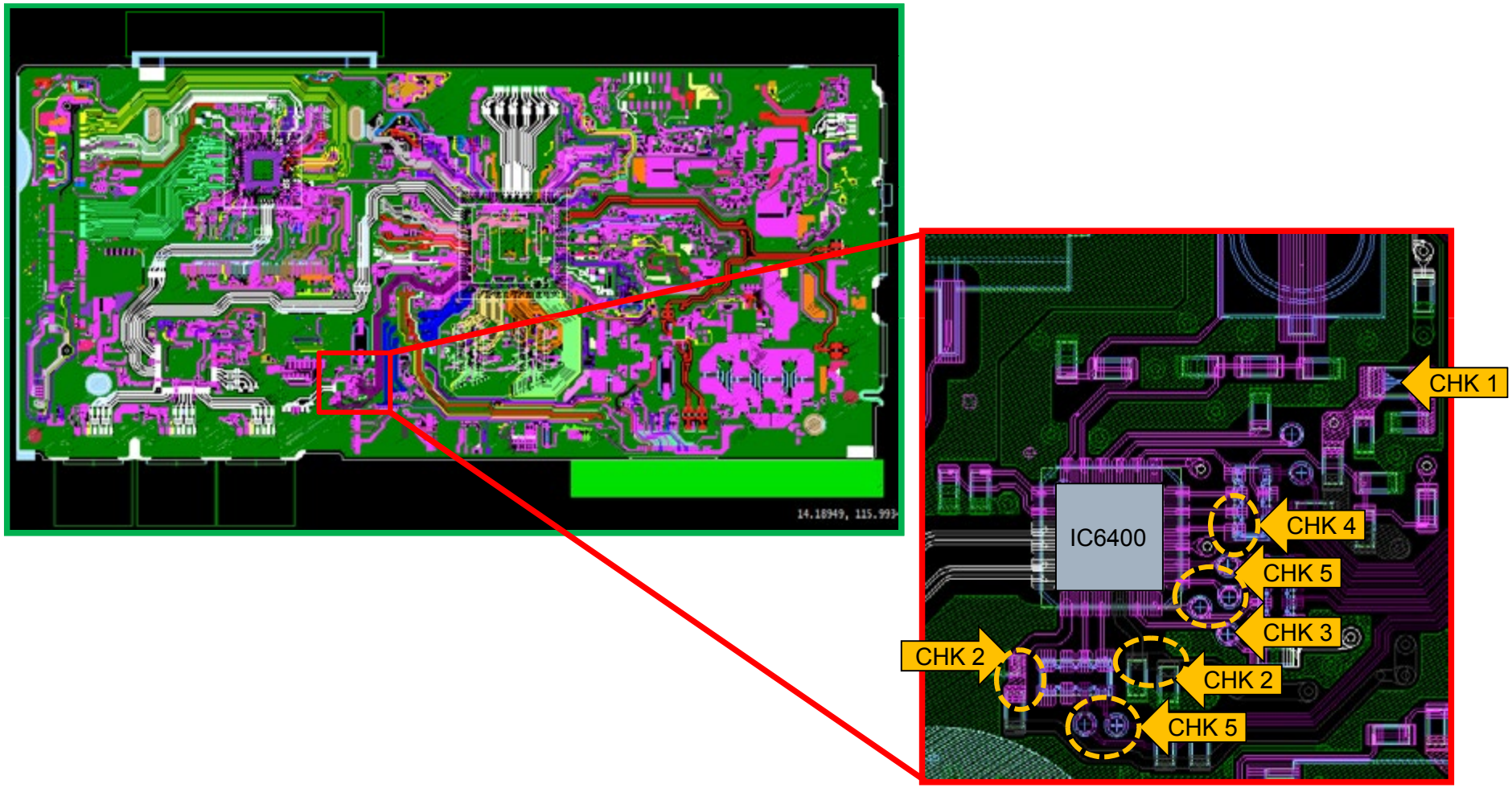
2.8 *


Backlight doesn't change when ambient lighting level changed
Check UI setting for light Sensor. Make sure it is "on"
Change the UI setting to ":ON"
OK
User did not activate light sensor function
NG
Harness on H-board and B* Board properly connected
OK
Harness connection issue
NG
Change H-B* board Harness
OK
Smart Core issue
NG
Change Smart Core
OK
H-B* board harness issue
NG
Change B* Board

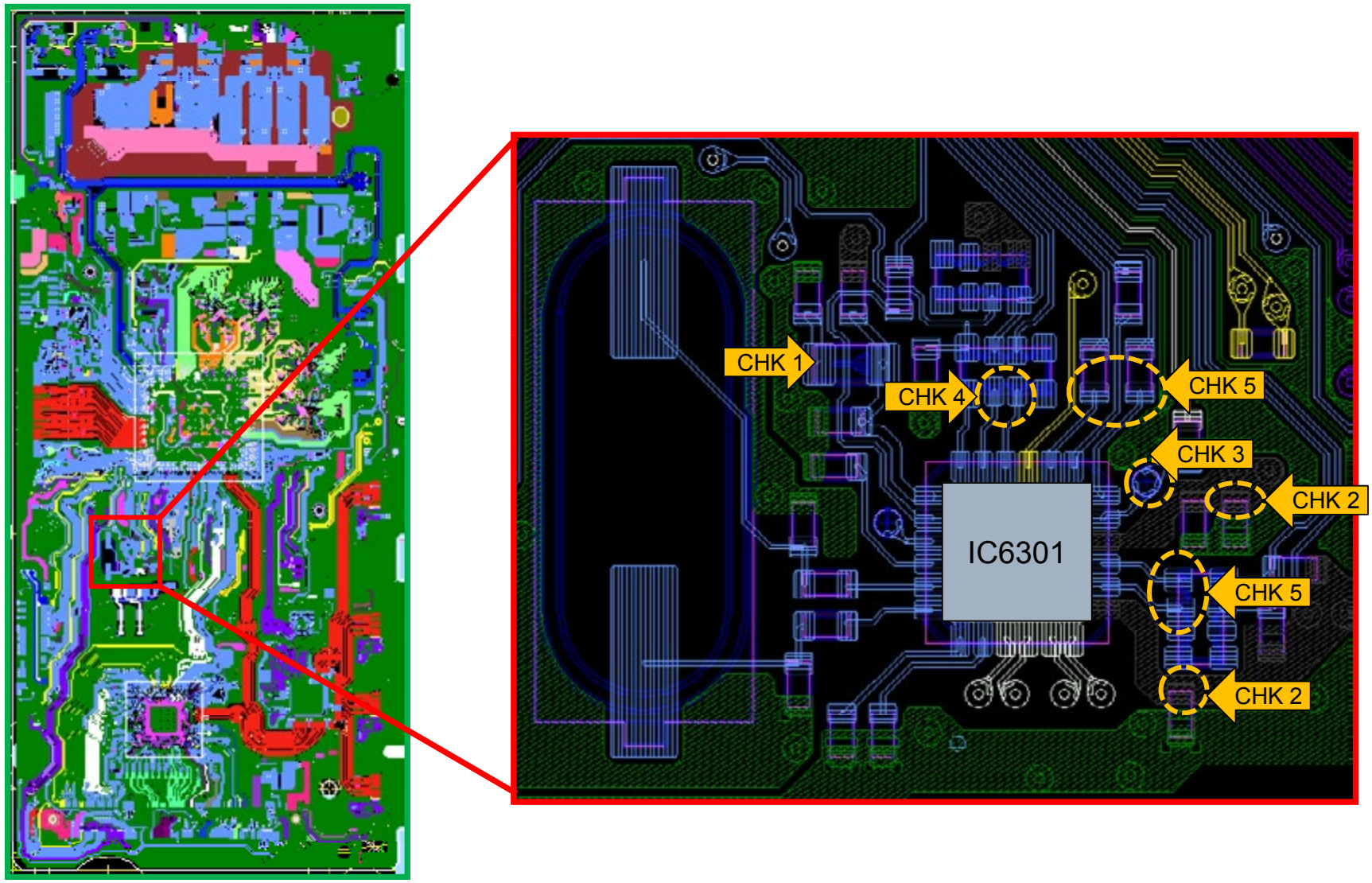
2.9 - NETWORK MALFUNCTION: ETHERNET (WIRED)



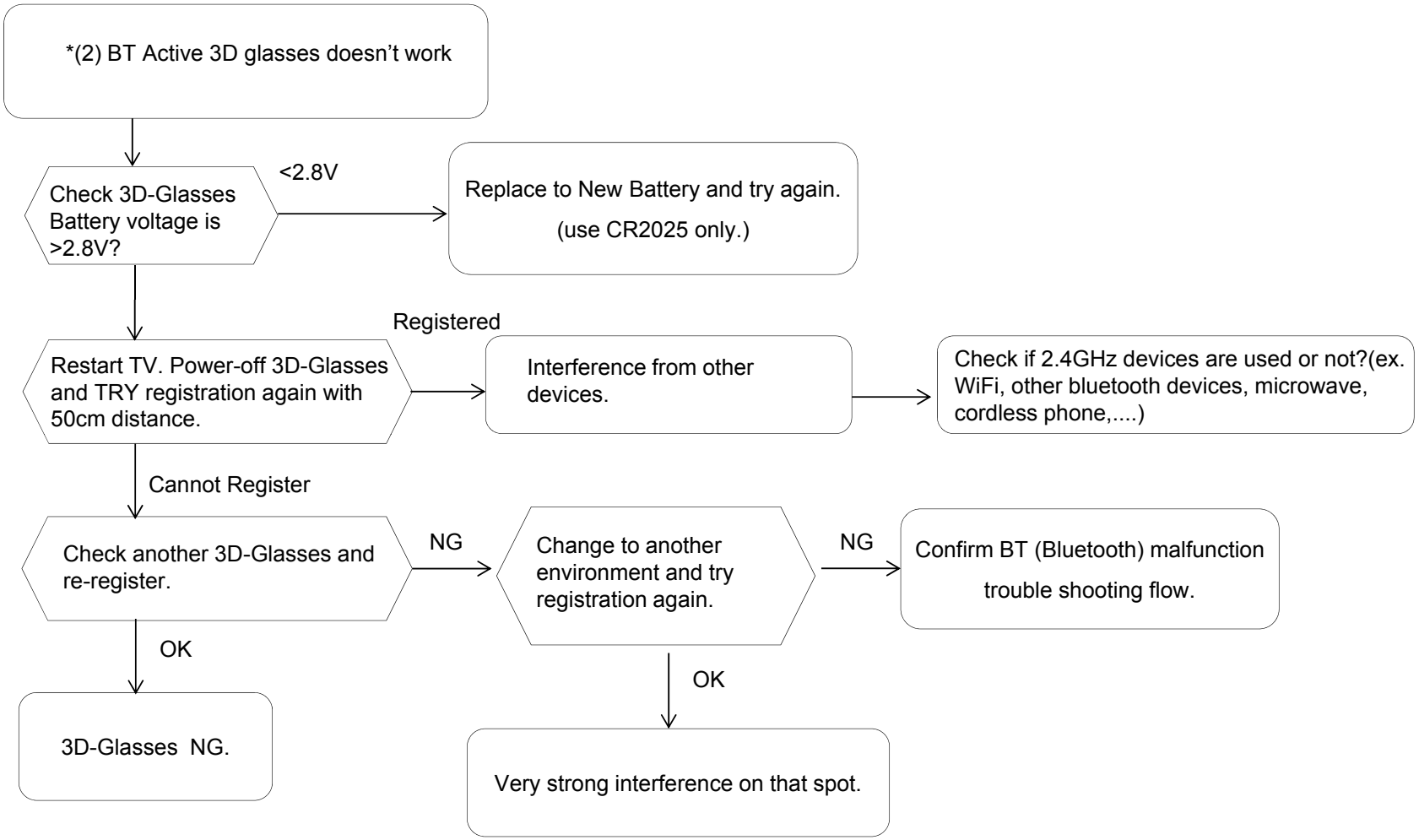
BAX-L BOARD (Side A)



BAX BOARD (Side A)

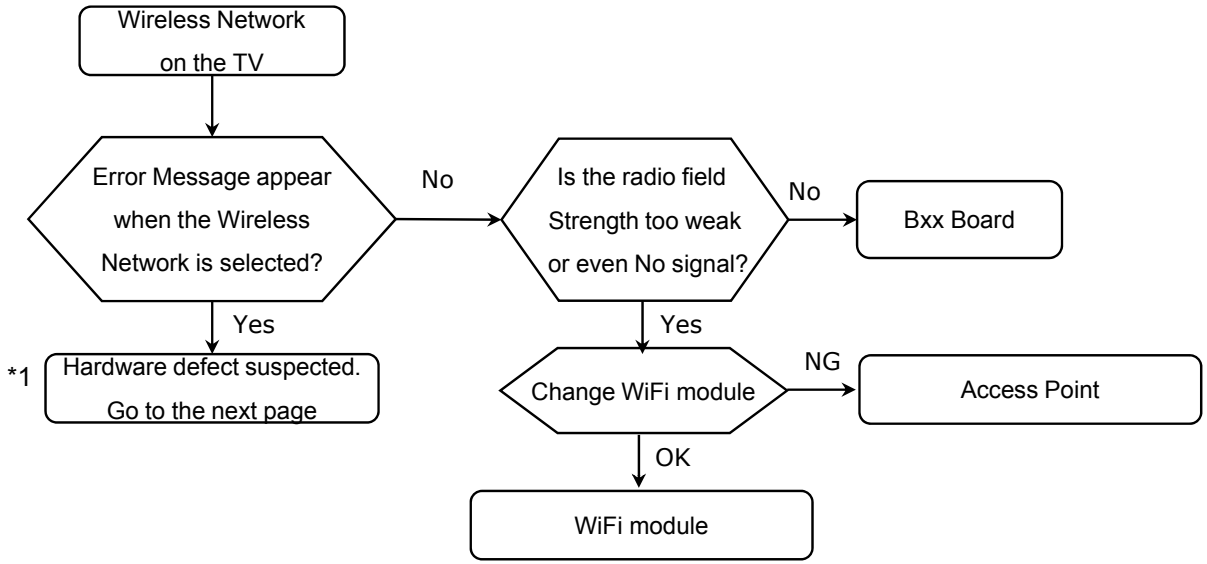


2.10 - 3D-GLASSES(ACTIVE) MALFUNCTION

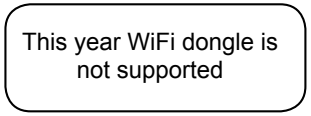


2.11-1 - WIRELESS NETWORK MALFUNCTION

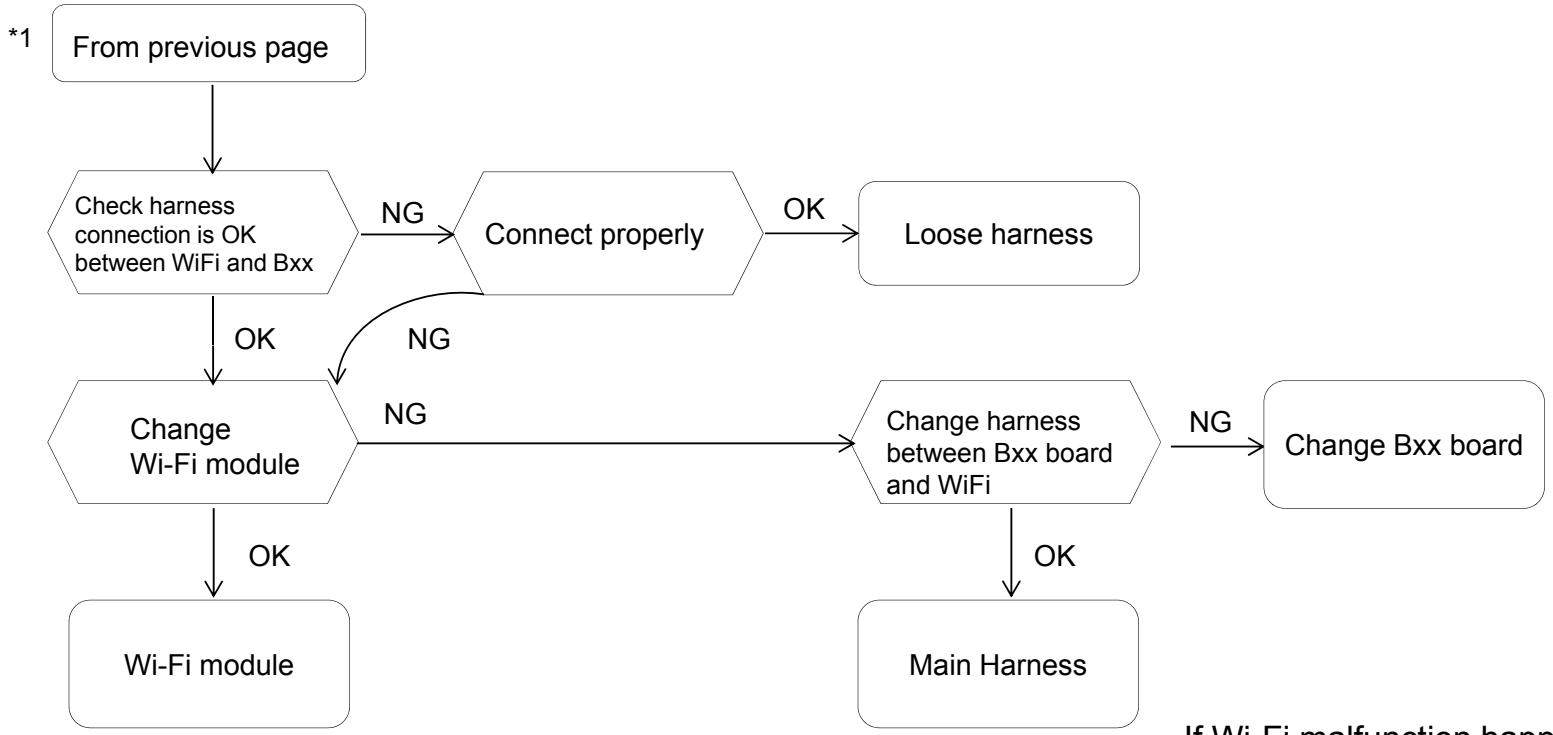
1) Internal Wireless Network malfunction



2) USB Wireless Network malfunction



2.11-2 - WIRELESS NETWORK MALFUNCTION (CONTINUE)

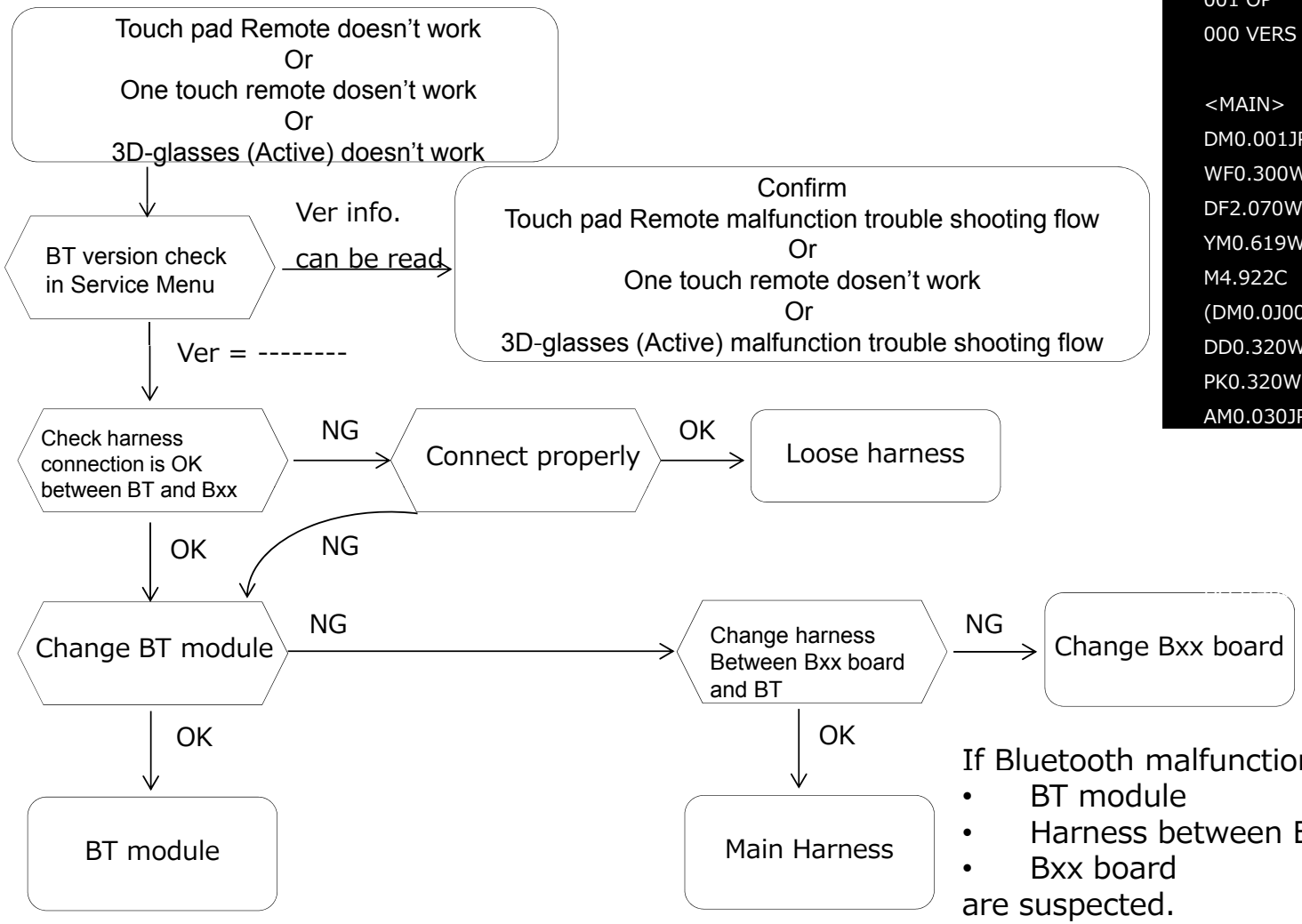


If Wi-Fi malfunction happens,

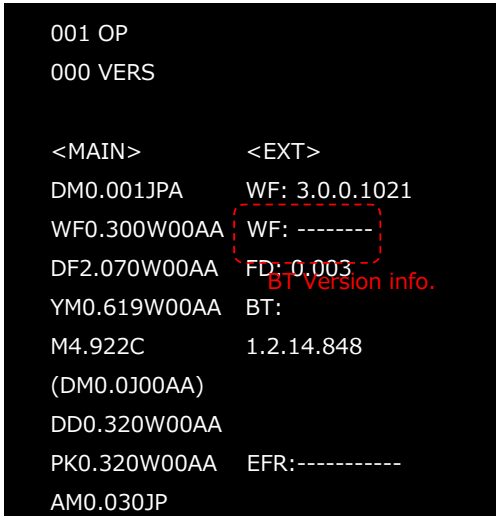
- Wi-Fi module
- Harness between WiFi and Bxx
- Bxx board

are suspected.

2.12 - BLUETOOTH MALFUNCTION



Service Menu



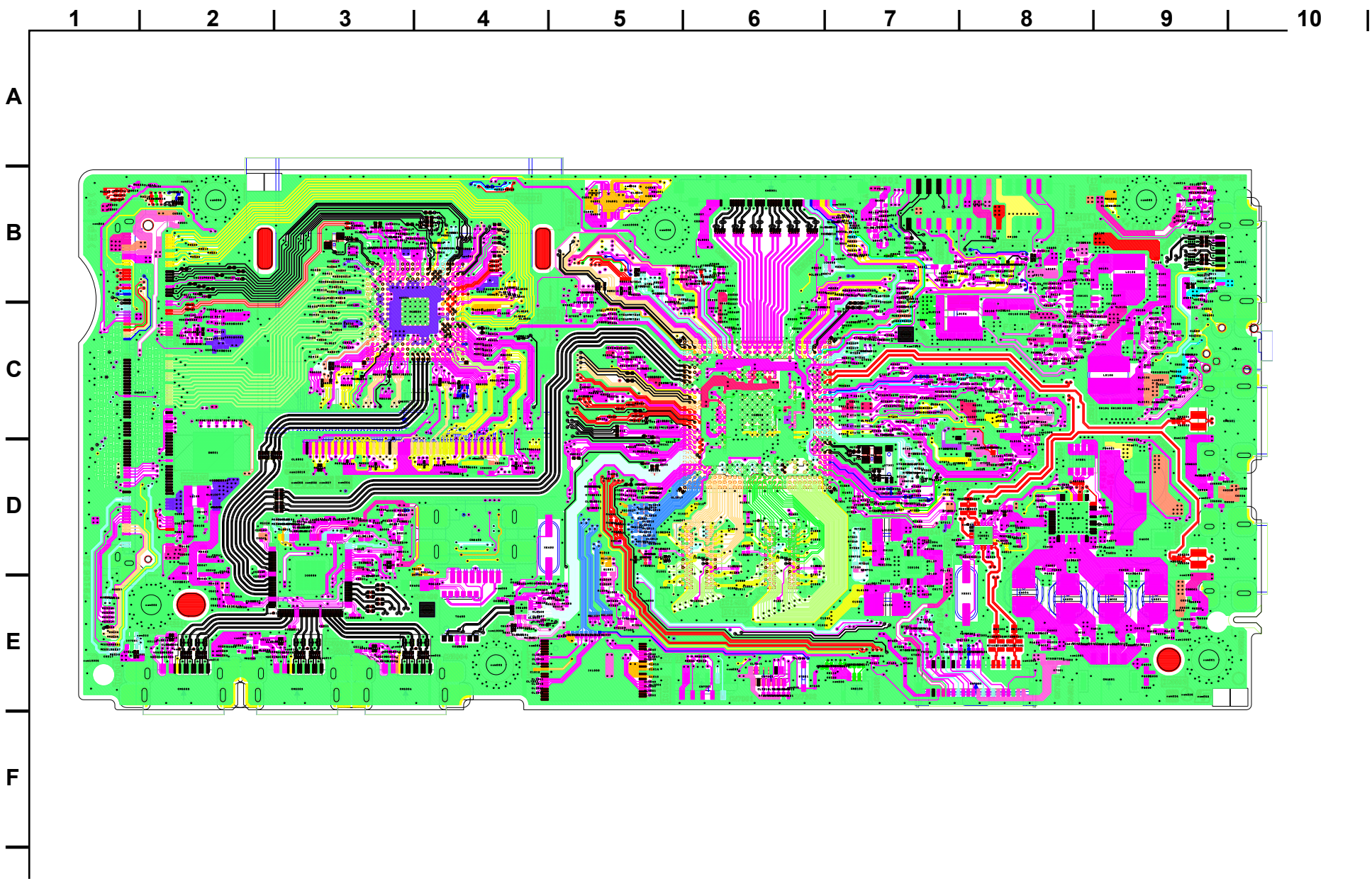
If Bluetooth malfunction happens,

- BT module
- Harness between BT module and Bxx
- Bxx board

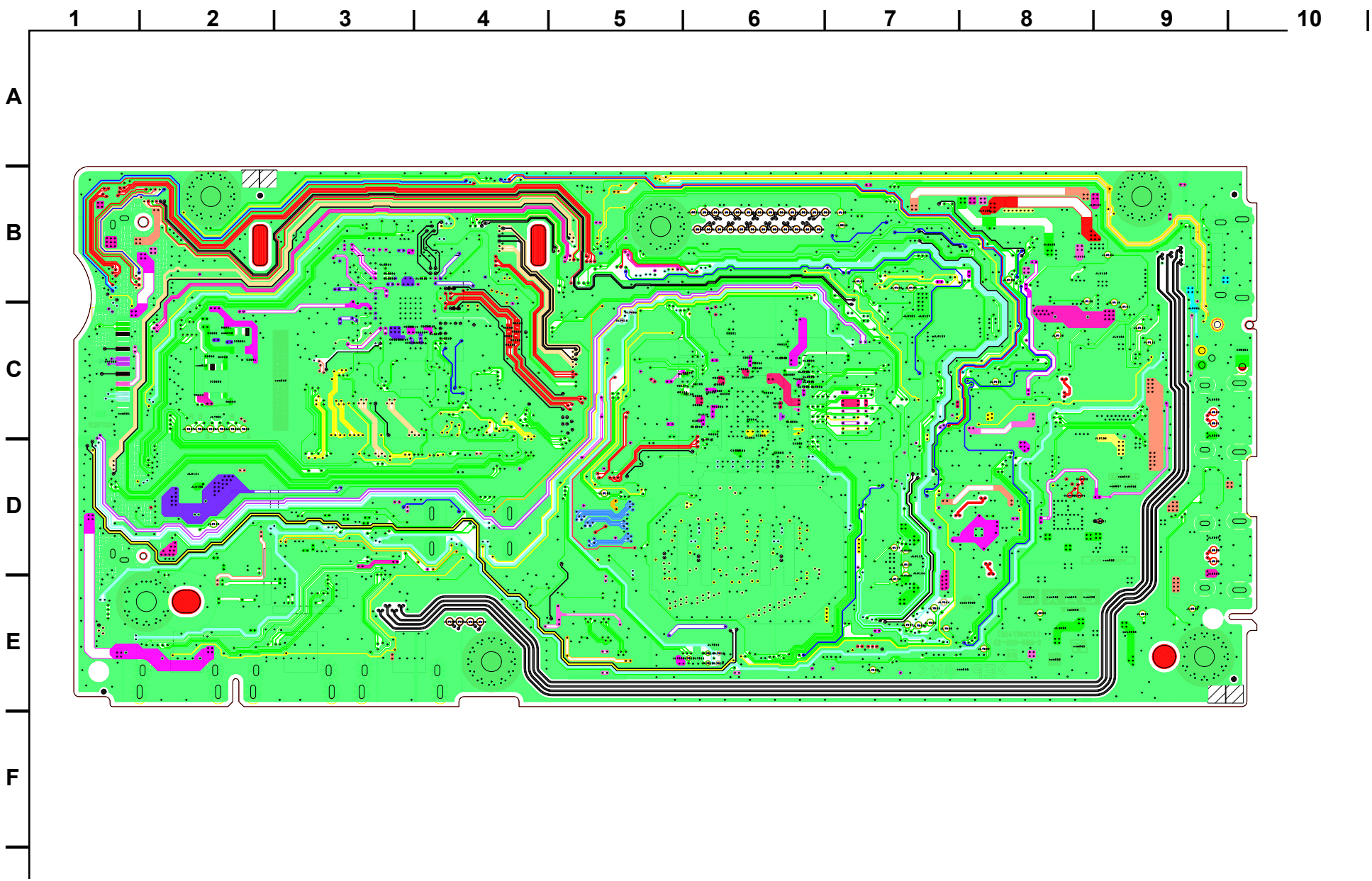
are suspected.

SECTION 3: POWER BOARD

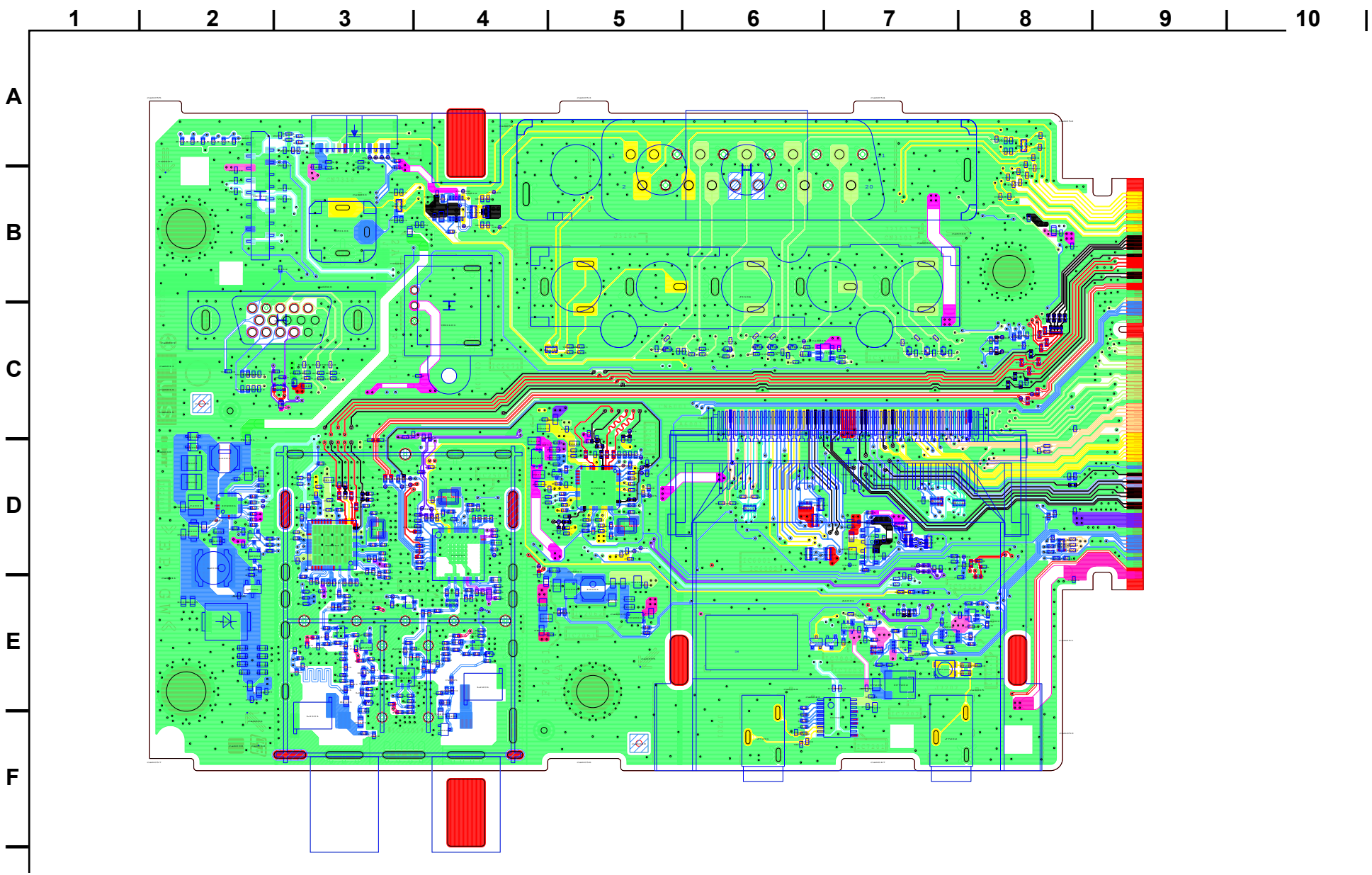
3.1 - POWER BOARD: BAX-L (A SIDE)



3.2 - POWER BOARD: BAX-L (B SIDE)



3.3 - POWER BOARD: TUNER



CONFIDENTIAL

SONY

CAD

BAX (RB2 Ayu2L)

001.sht		Cover Sheet		
002.sht	9100 - 9199	Power	DDCON	Alvin
003.sht	9200 - 9299	Power (Ayu2L/Brownie)	DDCON	Alvin
004.sht	7000 - 7299	System (Main)	GenSystem	Huey Shin
005.sht	7300 - 7599	System (Standby)	GenSystem	Huey Shin
006.sht	1000 - 1399	Flash	Digital interface	Nazirul
007.sht	1400 - 1599	DDR3	Digital interface	Nazirul
008.sht	1600 - 1799	DDR3 for Ayu2	Digital interface	Nazirul
009.sht	9500 - 9699	TU I/F, Demod (Brownie)	Tuner	Kama
010.sht	3000 - 3099	Video I/F (Brownie)	Video	Azmir
011.sht	5000 - 5899	HDMI	HDMI	Wai Kiat
012.sht	4000 - 4399	Audio FE	Audio	Hassani
013.sht	6000 - 6199	CI/B-CAS (Ayu2L)	Digital interface	Syafiq
014.sht	6400 - 6499	Ether	Digital interface	Syafiq
015.sht	6501 - 6699	USB	Digital interface	Nazirul
016.sht	8000 - 8199	LVDS	Digital interface	Khor
017.sht	8200 - 8499	LD	LD	Tiu
018.sht	8500 - 8699	Ayu2L - Brownie I/F	GenSystem	Yeong

MAINTAINED UNTIL DIB558
LAST UPDATE 04/12/2013 (12.42PM)

ALL resistors are in ohms,W unless otherwise noted.
ALL capacitors are in uF(p:pF)unless otherwise noted.

HISTORY K.COUNT	SUFFIX Tags	ECN NO. DATE	REVISION	SIGN.	DRAWN BY	PLANNED BY	CHECKED BY

APPROVED BY | MODEL | PART NO. | INITIATOR

UNIT mm | TOLERANCE | ANGLE | SCALE : | USED ON | RANK | FAMILY | ORIGINAL MODEL | MATERIAL(COLOR) | FINISH(COLOR)

DESCRIPTION
(E) BAX_L BOARD
(J) COVER SHEET

PART NO. RB2 | SHEET 1/18

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ISSUED : _ _ _ _ _ _

SONY STANDARD 99:10

2013/12/05 00:16 5004103813 RB2_BAX_L_PP3_041213.cir/001.sht To PCB System

BOARD SCHEMATIC DIAGRAM (2 OF 24)

G-B I/F (tentative)

D+1.0V with VID

出力電圧設定
1.014V / 6.0A

AYU2まで幅10mm以上

OCP SETTING
R9022 X 8.5u / DCR(10m) = 8.5A

+19.5V>>>+5.0V_VBUS

出力電圧設定
5.15V / 5A

+5.0V MAIN

出力電圧設定
5.1V / 2.5A

+3.3V MAIN

VOLTAGE setting
3.35V / 2.0A

DDR3 +1.5V

VOLTAGE setting
1.520V / 2A

D+1.15V

VOLTAGE setting
1.175V / 1.6A

BROWNIEまで幅3mm以上

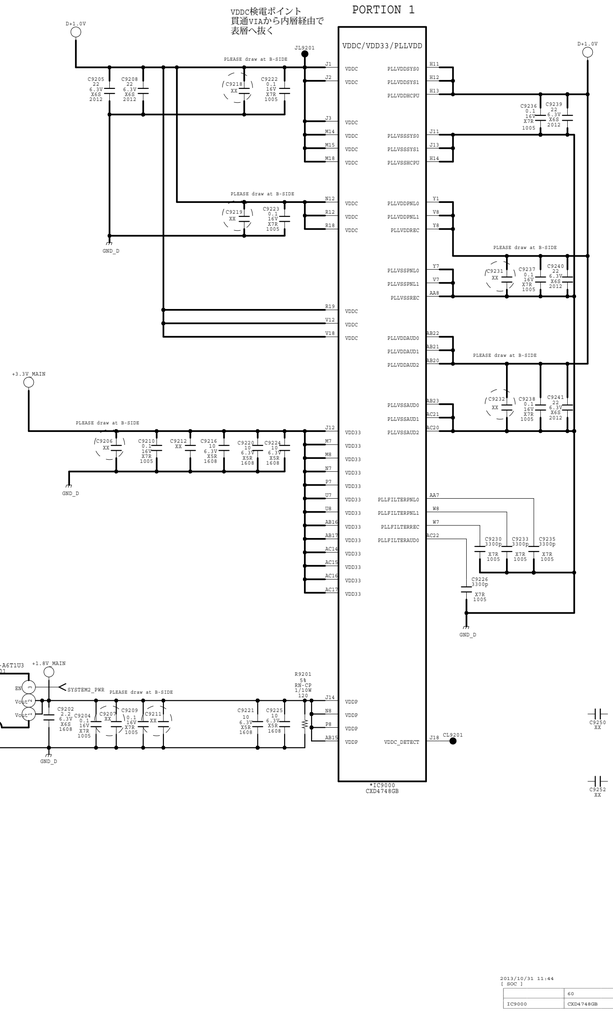
ALL resistors are in ohms,W unless otherwise noted.
ALL capacitors are in uF(p:pF)unless otherwise noted.

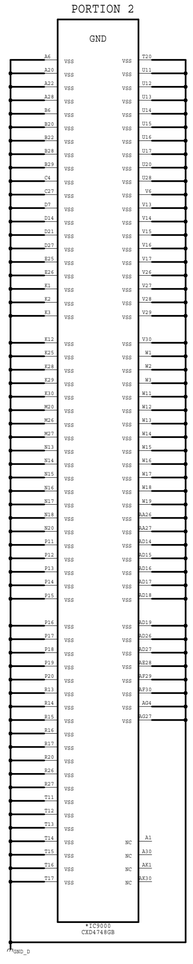
ORIGINAL MODEL	BAX_L BOARD
DESCRIPTION	POWER
PART NO.	RB2
SHEET	2/18

A BOARD SCHEMATIC DIAGRAM (3 OF 24)

PLEASE PUT BELOW AYU2L

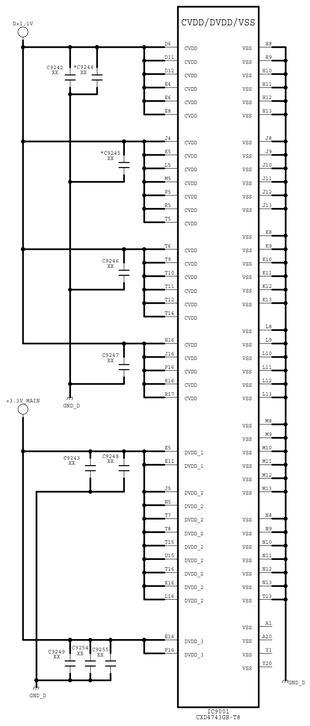
PLEASE DRAW AT B-SIDE





2013/10/31 11:44
[SEGMENT1]

	HE	HK
C9244	XX	3300p 50V X7R
C9245	XX	3300p 50V X7R



2013/10/31 11:44
[BOC]

	40	65AVS
IC9000	CXD4748GB	CXD4748GB-1

ALL resistors are in ohms,W unless otherwise noted.
ALL capacitors are in uF(p:pF)unless otherwise noted.

ORIGINAL MODEL	BAX_L BOARD
DESCRIPTION	POWER (Ayu2L/Brownie)
PART NO.	RB2
SHEET	3/18

A BOARD SCHEMATIC DIAGRAM (4 OF 24)

SYSTEM(MAIN) (7001-7300)

MODEL MATRIX for factory

DEBUG LED

ICC SEL Strap Setting

Temp sensor

MS

Up date MS connector

PERI(Normal)

ALL resistors are in ohms,W unless otherwise noted.
ALL capacitors are in uF(p;pF)unless otherwise noted.

ORIGINAL MODEL	BAX L BOARD
DESCRIPTION	SYSTEM(MAIN)
PART NO.	RB2
SHEET	4/18

A BOARD SCHEMATIC DIAGRAM (5 OF 24)

SYSTEM(STANDBY)(7301-7600)

LED indicator

X_BT_KEY_WAKE

Wake On LAN

Error Detection

UART SELECT

TL-EX1 Board

PERI(Standby)

STBY_+1.8V REG

STBY_+1.0V REG

JTAG

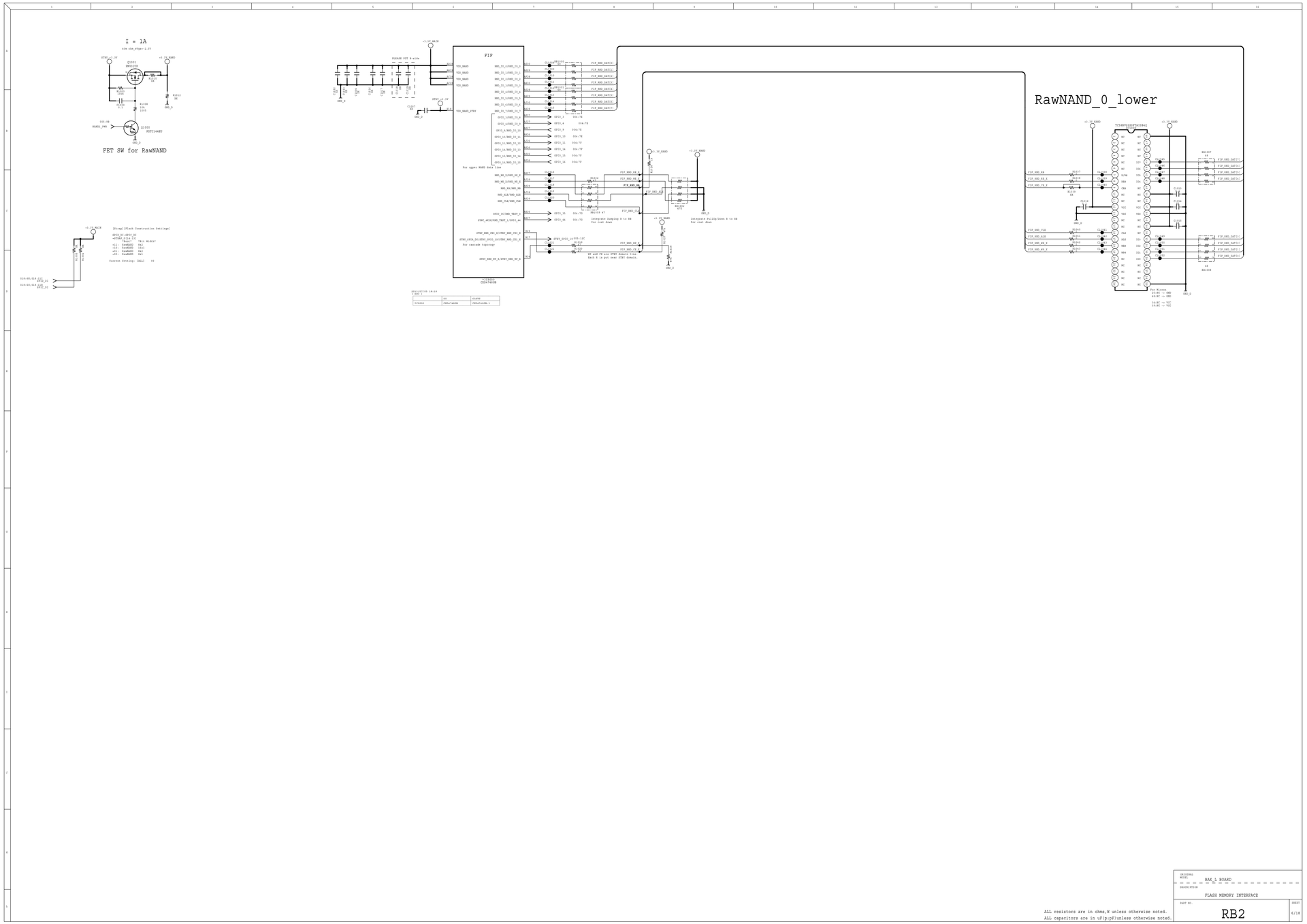
*** Diag Setting ***(In internal PU)
STBY_UART_TX = STBAT_E11
STBY_UART0_TX = STBAT_E11
STBY_UART2_TX = STBAT_E12

Boot / power mode(DC_MCH stable waiting time)
Change polling cycle by strap setting
000:SYNCH_WAIT = 10msec
001:SYNCH_WAIT = 100msec
010:SYNCH_WAIT = 150msec(Same as A22/A23
011:SYNCH_WAIT = 200msec
100:SYNCH_WAIT = 250msec
101:SYNCH_WAIT = 300msec
110:SYNCH_WAIT = 500msec
111:SPI Boot Mode

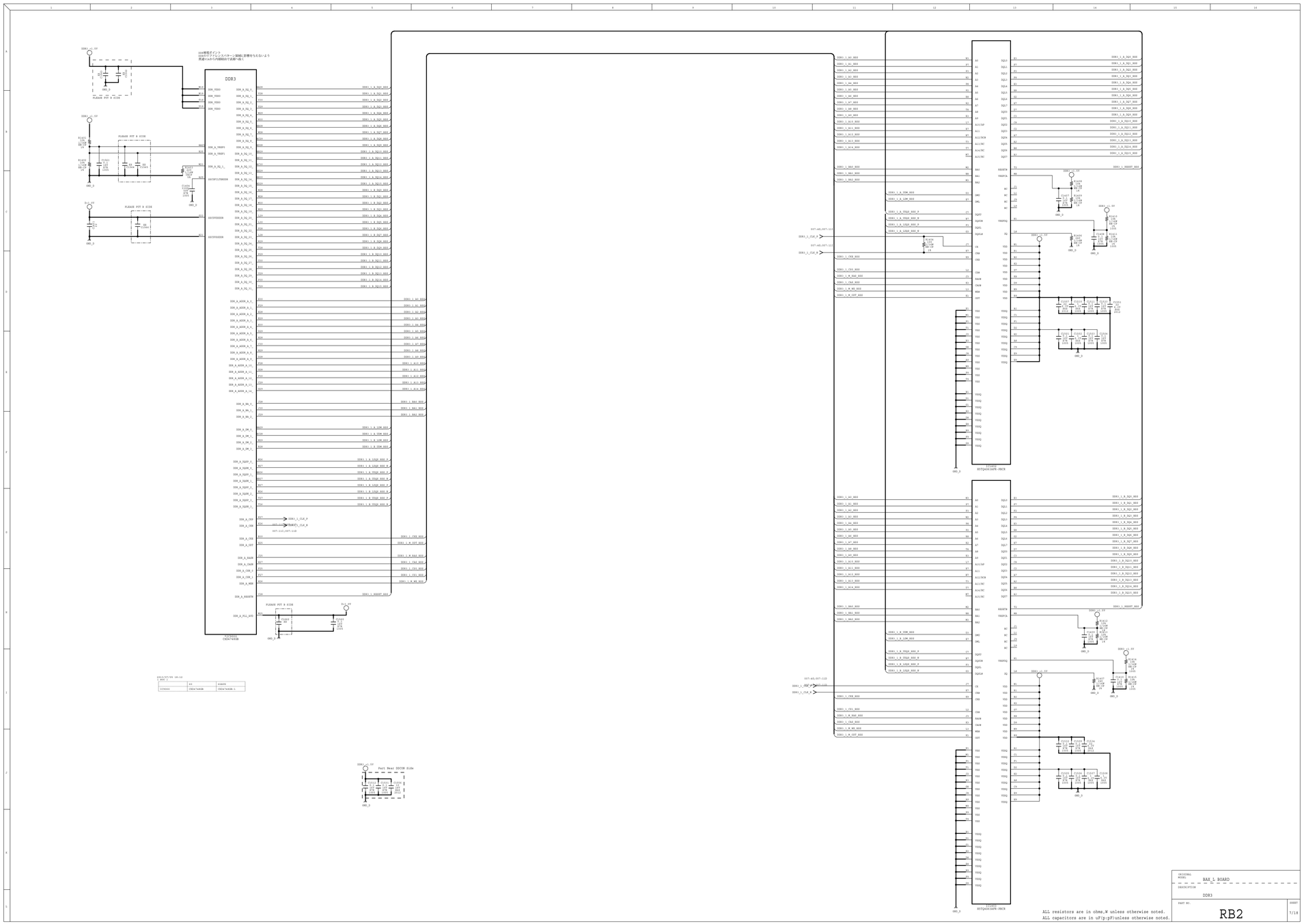
ALL resistors are in ohms,M unless otherwise noted.
ALL capacitors are in uF(p:pF)unless otherwise noted.

ORIGINAL MODEL	BAX L BOARD
DESCRIPTION	SYSTEM (Standby)
PART NO.	RB2
SHEET	5/18

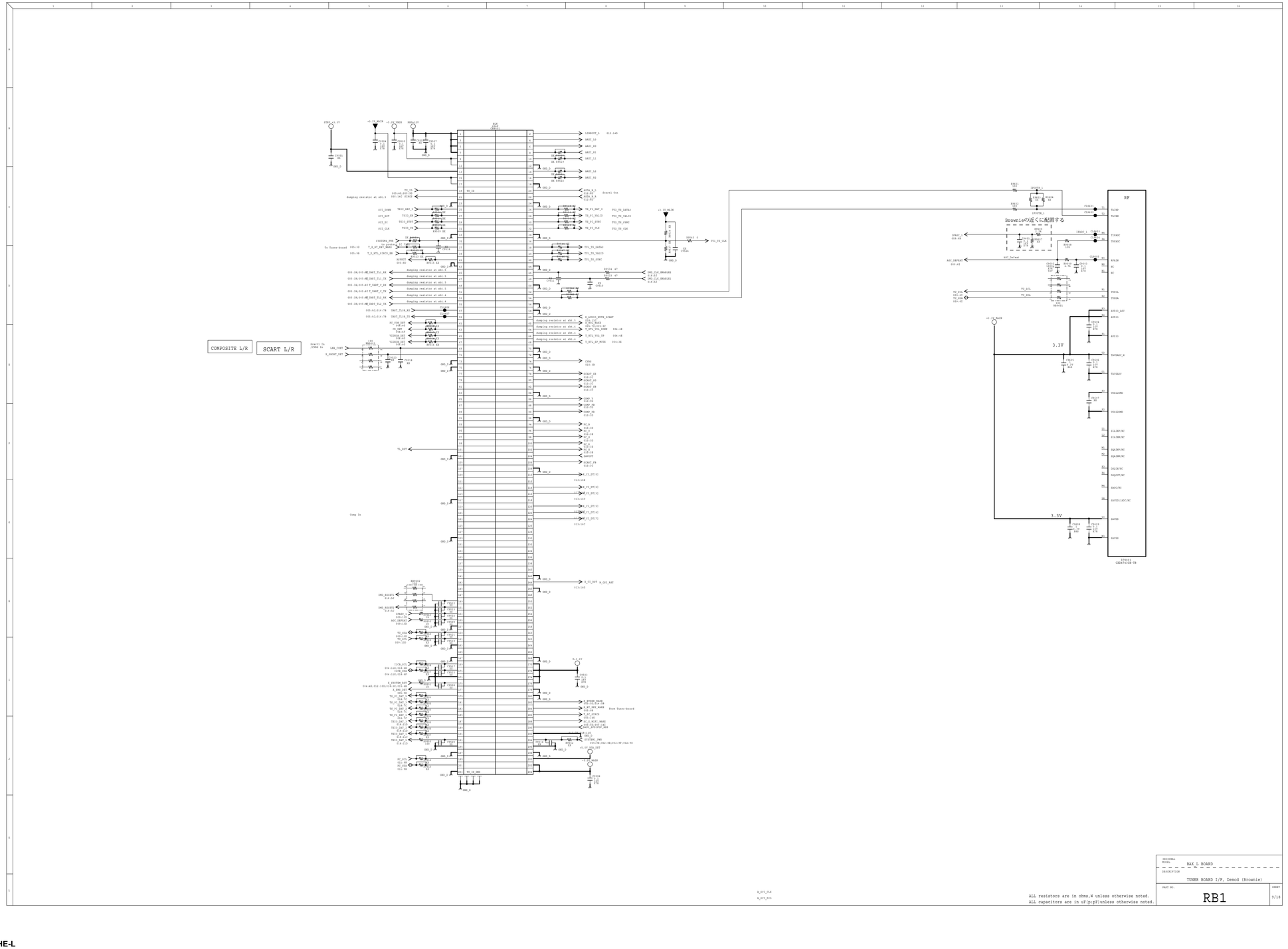
A BOARD SCHEMATIC DIAGRAM (6 OF 24)



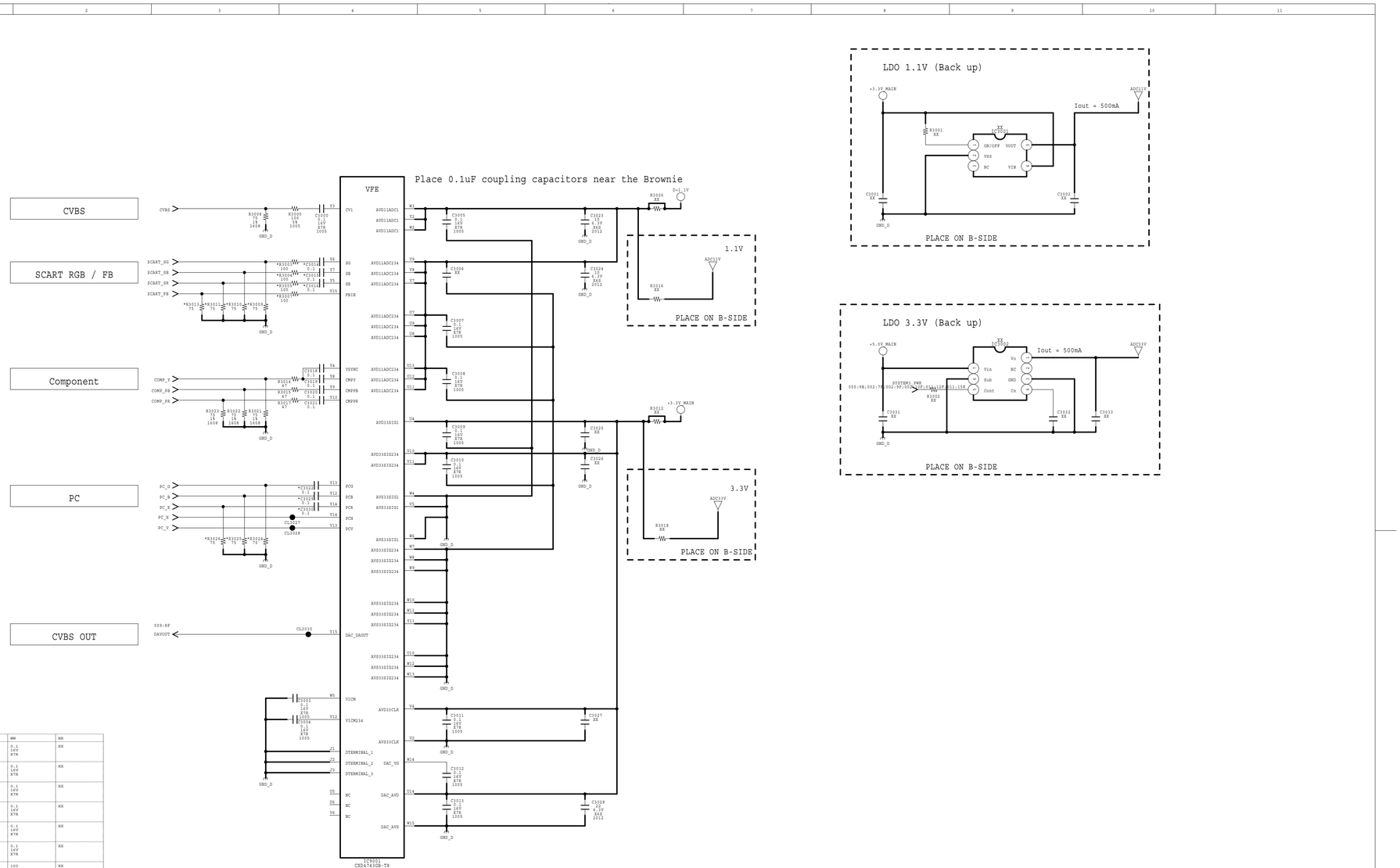
A BOARD SCHEMATIC DIAGRAM (7 OF 24)



A BOARD SCHEMATIC DIAGRAM (8 OF 24)



A BOARD SCHEMATIC DIAGRAM (9 OF 24)



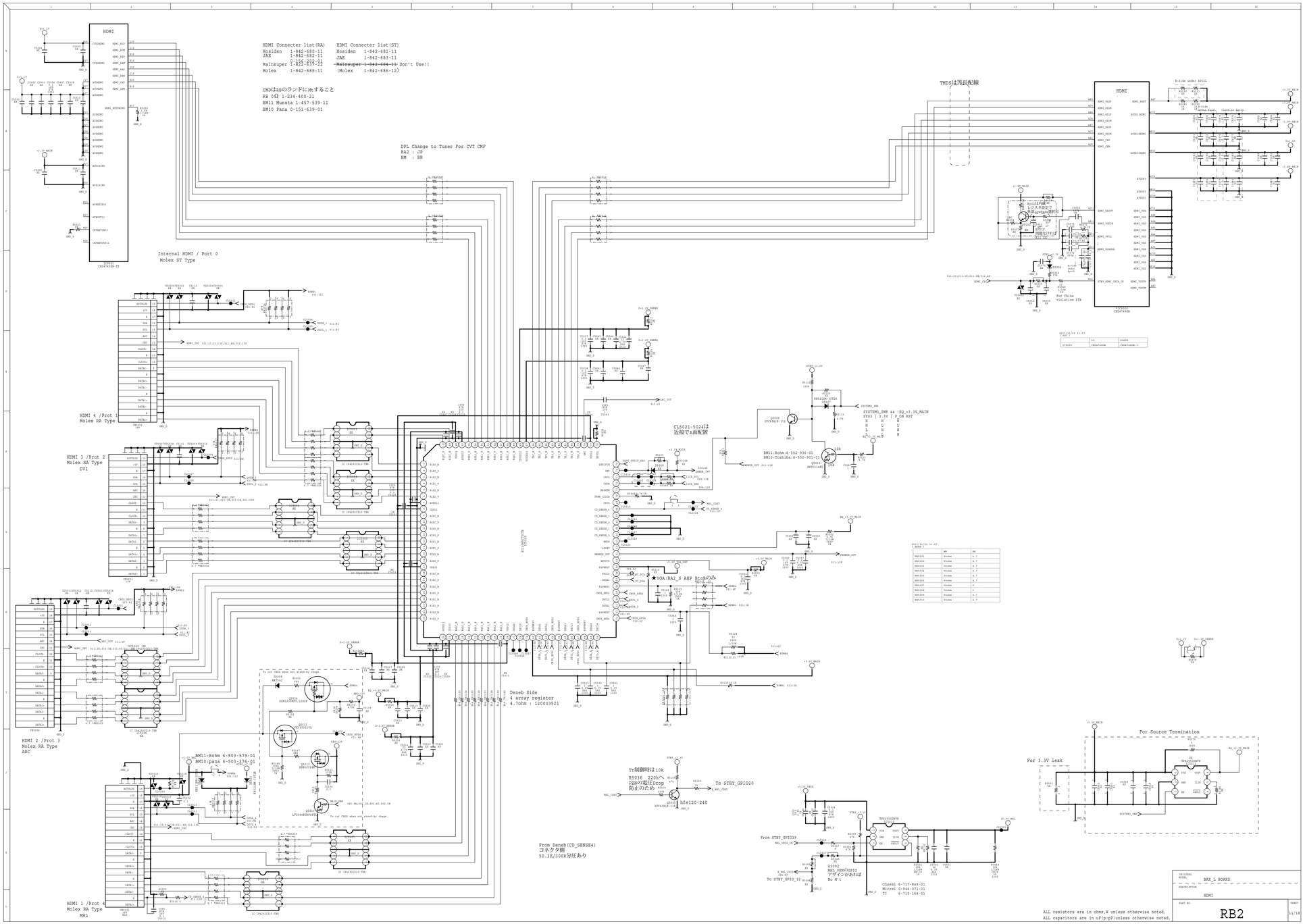
2013/11/19 18:05
[ARBA]

	WW	BR
C3014	0.1 16V X7R	XX
C3015	0.1 16V X7R	XX
C3016	0.1 16V X7R	XX
C3022	0.1 16V X7R	XX
C3029	0.1 16V X7R	XX
C3030	0.1 16V X7R	XX
R3003	100 1/16W CHIP	XX
R3004	100 1/16W CHIP	XX
R3005	100 1/16W CHIP	XX
R3007	100 1/16W CHIP	XX
R3009	75 1/10W RN-CP	XX
R3010	75 1/10W RN-CP	XX
R3011	75 1/10W RN-CP	XX
R3013	75 1/10W RN-CP	XX
R3024	75 1/10W RN-CP	XX
R3025	75 1/10W RN-CP	XX
R3026	75 1/10W RN-CP	XX

ALL resistors are in ohms,W unless otherwise noted.
ALL capacitors are in uF(p;pF)unless otherwise noted.

ORIGINAL MODEL: BAX_L BOARD
DESCRIPTION: VIDEO IF
PART NO.: RB2
SHEET: 10/18

A BOARD SCHEMATIC DIAGRAM (10 OF 24)



A BOARD SCHEMATIC DIAGRAM (11 OF 24)

COMPOSITE L/R

SCART L/R

COMPONENT L/R

PC L/R

AUDIO_IN/OUT

AUDIO OUT

for HDMI(ARC)

HP/LINE OUT

AMPの裏面は40mm x 40mm以上のGNDベタであること

ALL resistors are in ohms,W unless otherwise noted.
ALL capacitors are in uF(p:pF)unless otherwise noted.

Ref:4201-4899

ORIGINAL REV. No.	BAX L BOARD
DESCRIPTION	AUDIO FRONT END
PART NO.	RB2
SHEET	12/18

A BOARD SCHEMATIC DIAGRAM (12 OF 24)

CI

CTRL to/from CAM

ADDR to CAM

DATA to/from CAM

TS from CAM to Brownie

TS from Brownie to CAM

CI I/F termination for Brownie

PCMCIA CONNECTOR
BM11 : JAE
BASE: 1-842-673-11
ARM : 1-842-674-21

BM10 : Kyocera
BASE: 1-842-619-11
ARM : 1-842-601-12

PCMCIA DVB-CI CONNECTOR (BASE)

CI SWITCH

ALL resistors are in ohms,W unless otherwise noted.
ALL capacitors are in uF(p:pF)unless otherwise noted.

BA501	1842674421	KB
CN501	P.C 8/8 ETH	KB
CN504	P.C 8/10 ETH	KB
CN6001	EXP 8/8	KB
CN6002	EXP 10X10	KB
RB501	47 1/10W CHIP	KB
RB503	47 1/10W CHIP	KB
RB504	47 1/10W CHIP	KB
RB505	47 1/10W CHIP	KB
RB509	0 CHIP	KB
RB510	47 1/10W CHIP	KB
RB511	47 1/10W CHIP	KB
RB513	0 CHIP	KB
RB522	KB	0 CHIP
RB6001	47	KB
RB6002	47	KB
RB6003	47	KB
RB6004	47	KB
RB6005	47	KB
RB6011	47	KB
RB6013	47	KB
RB6014	47	KB
RB6015	106	KB
RB6018	47	KB
RB6022	47	KB
RB6023	47	KB
RB6024	47	KB
RB6031	106	KB
RB6032	106	KB
RB6033	106	KB
RB6040	KB	0
RB6041	KB	0
RB6042	KB	0
RB6043	KB	0
RB6044	KB	0

ORIGINAL MODEL	BAX L BOARD
DESCRIPTION	CI/B-CAS (Ayu21)
PART NO.	RB2
	1/18

A BOARD SCHEMATIC DIAGRAM (13 OF 24)

ETHER

RMII I/F

ETHERNET RMII

*IC9000
CXD4748GB

For R6400:
RM11: 1-814-677-11 (TopAtlantic)
RM10: 1-814-676-11 (ECEC)

Please put Xtal close to IC6301.

Do not make the stub in PWB design as much as possible.

IC6400
RTL8201FR-VB-CGT

R6110-R6113,R6135,R6136 will be combined to networked resister.

Please put LED on A side.

Do not make the stub in PWB design as much as possible.

[PHY Strap settings]

LED0/PHYAD[0]/PWEB/INTB (18pin)
 0 : PHYAD[0] = LED0 = 0
 -> 1 : PHYAD[0] = LED0 = 1 (default)
 *An external PU is necessary in WOL mode.

LED1/PHYAD[1] (19pin)
 -> 0 : PHYAD[1] = LED1 = 0 (default)
 1 : PHYAD[1] = LED1 = 1

RXD[0]/CLK_CTL (8pin : internal PD)
 -> 0 : REFCLK output mode (default)
 1 : REFCLK input mode

RXD[1] (9pin : internal PD)
 0 : 18pin supports LED function.(default)
 -> 1 : 18pin supports WOL/INT function.

RXER/FXEN (21pin : internal PD)
 -> 0 : UTP mode (default)
 1 : Fiber mode

CN6301 : RJ-45
Straight type

T6301 : Pulse Trans
TAIMAG
1-445-955-11

Tx : Differential 100Ω

Rx : Differential 100Ω

	No	Yes
D6400	XX	SML-310WTT86
R6419	XX	510 1/16W CHIP

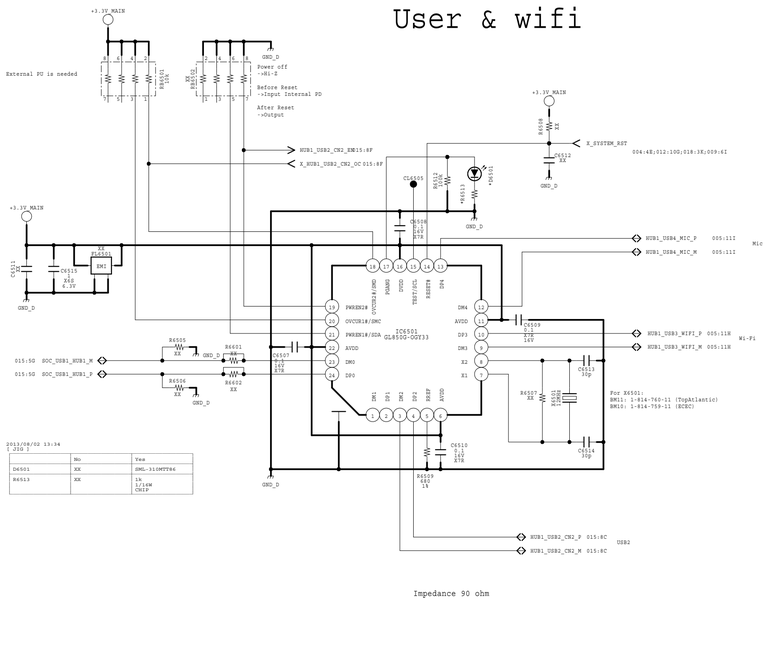
ALL resistors are in ohms,W unless otherwise noted.
ALL capacitors are in uF(p:pF)unless otherwise noted.

ORIGINAL MODEL	BAX_L BOARD
DESCRIPTION	ETHER
PART NO.	RB2
SHEET	14/18

A BOARD SCHEMATIC DIAGRAM (14 OF 24)

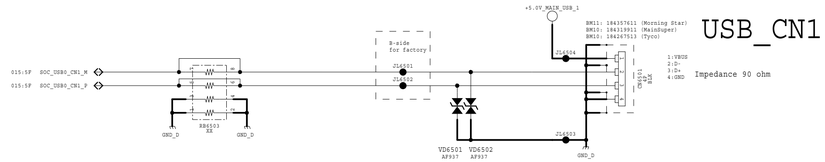
USB

User & wifi

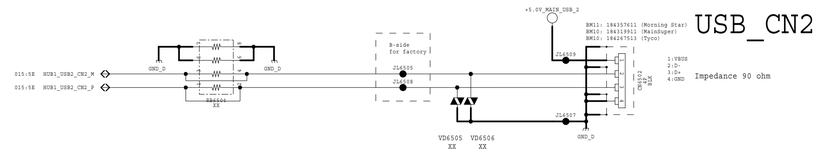


2013/08/02 13:34 [2CU]		
	No	Yes
D6501	XX	SML-310MTT86
R6513	XX	1k 1/16W CH1F

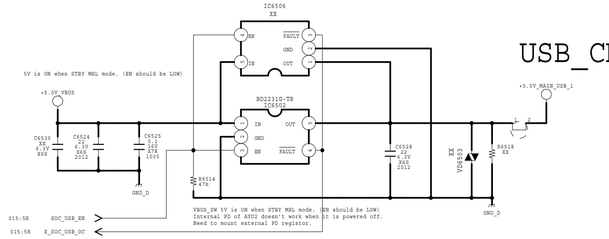
USB_CN1



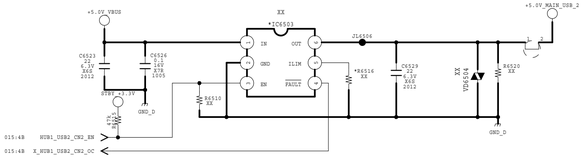
USB_CN2



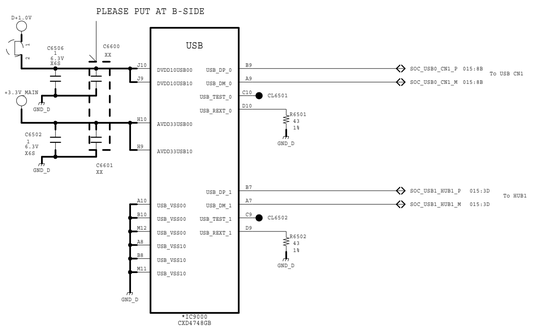
USB_CN1

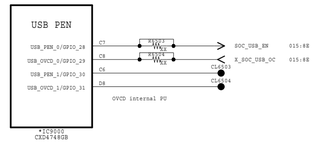


USB_CN2



2013/08/02 13:34 [USB]		
	YES	NO
IC6503	BD2235G	XX
R6514	XX	18k 1/16W RN-CP



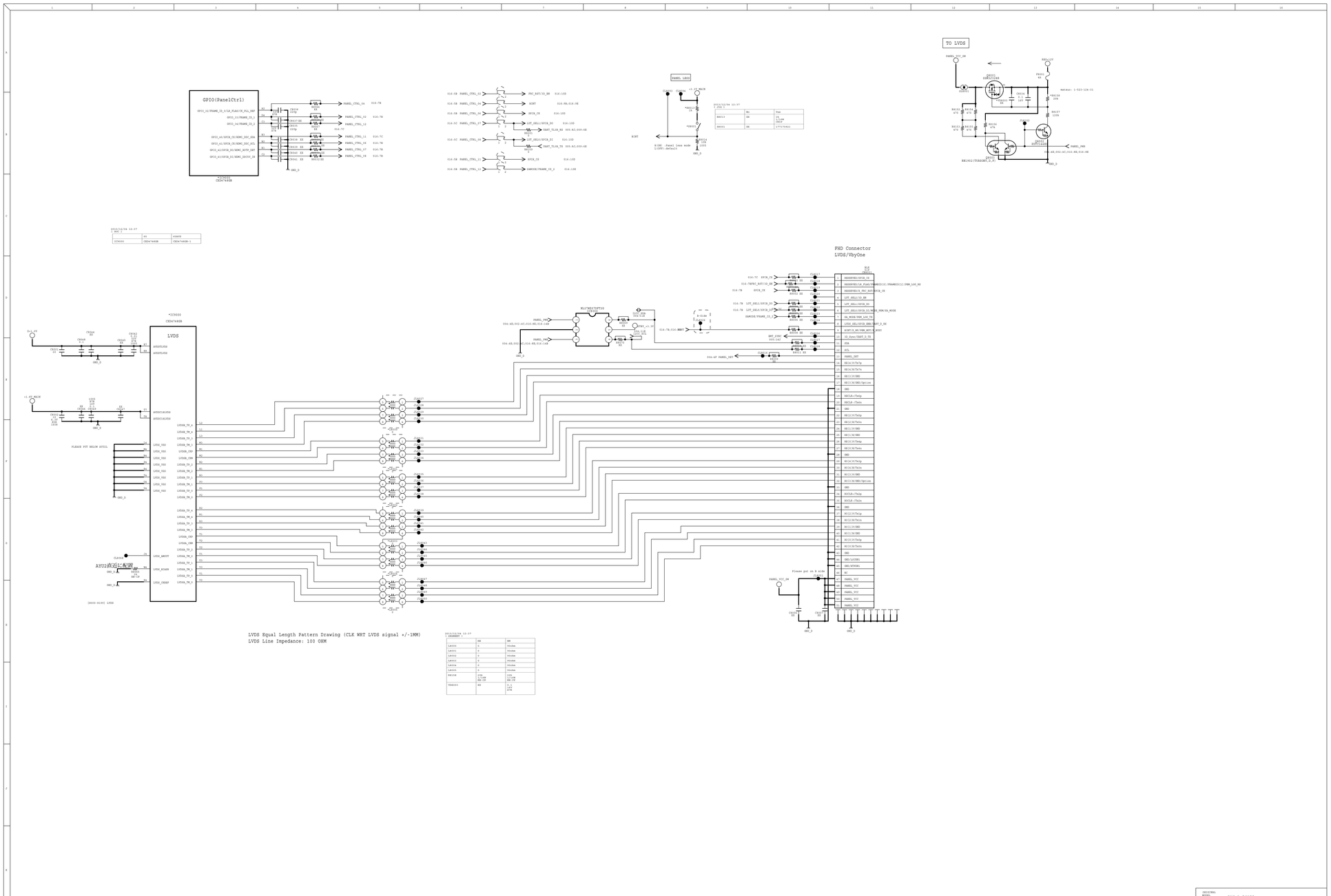


2013/08/02 13:34 [SOC]		
	4G	4GAV0
IC9000	CXD4748GB	CXD4748GB-1

ALL resistors are in ohms,W unless otherwise noted.
ALL capacitors are in uF(p:pF)unless otherwise noted.

ORIGINAL MODEL	BAX_L BOARD	
DESCRIPTION	USB	
PART NO.	RB2	SHEET 15/18

A BOARD SCHEMATIC DIAGRAM (15 OF 24)

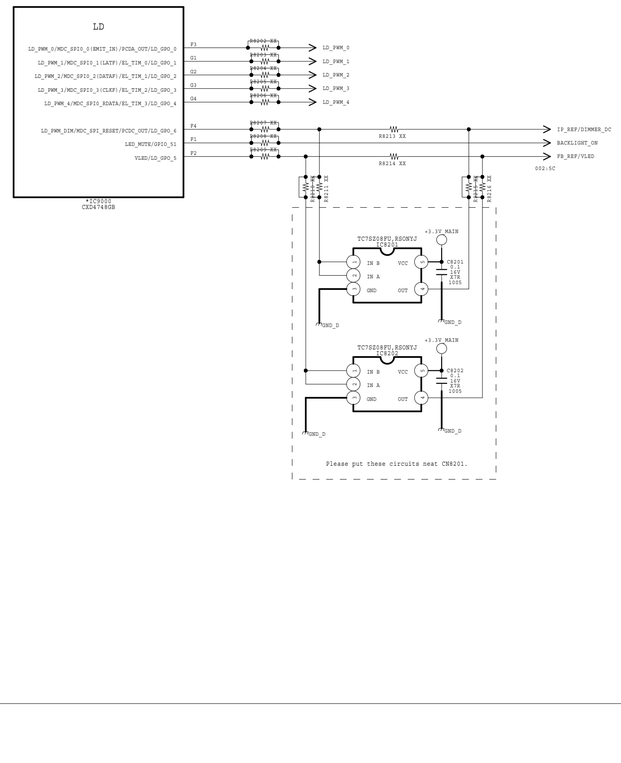


A BOARD SCHEMATIC DIAGRAM (16 OF 24)

LD_STBY is directlly connected in sheet2

2013/07/05 18:20
[BOC]

	60	60AVH
IC9000	CXD4749GB	CXD4749GB-1



ALL resistors are in ohms,W unless otherwise noted.
ALL capacitors are in uF(p:pF)unless otherwise noted.

ORIGINAL MODEL	BAX_L BOARD
DESCRIPTION	LD
PART NO.	RB2
SHEET	17/18

A BOARD SCHEMATIC DIAGRAM (17 OF 24)

BROWNIE

Tuner Board I/F connector

To avoid stub connection of M-tuner Serial-TS line and mount variation in this board, make return path to Tuner Board

AYU2

AYU2-BROWNIE_I/F

AYU1-BROWNIE_I/F

TS

TS10

GPIO

To Brownie via TunerBoard

To BCAS Connector

For HP/Line Out

For SCART Out

For Analog Input

Brownie Audio DAC Mute

For CI Transfer

Slice Data from Brownie

SD Video
AYU2 -> Brownie :
Brownie -> AYU2 :

C : SP/RP Out Mute
D : SCART Out Mute

Memory Stick

ALL resistors are in ohms,W unless otherwise noted.
ALL capacitors are in uF(p:pF)unless otherwise noted.

ORIGINAL MODEL	BAX_L BOARD
	3926525P15B
	AYU2-BROWNIE I/F
PART NO.	RB2
SHEET	16/18

A BOARD SCHEMATIC DIAGRAM (18 OF 24)

CONFIDENTIAL

SONY

CAD

TUS

001.sht		Cover Sheet			
002.sht	2000 - 2009	Tuner, Demod.	TUNER	KAMA	KamaAzira.Kamil@ap.sony.com
003.sht	2100 - 2999	LNB Power	TUNER	KAMA	KamaAzira.Kamil@ap.sony.com
004.sht	7600 - 7899	System	GENSYSTEM	FAREEZ	FareezEzwan.MohdSaniAriffin@ap.sony.com
005.sht	6200 - 6399	CI	DIGITAL INTERFACE	SYAFIQ	MohamadSyafiq.Salahuddin@ap.sony.com
006.sht	3100 - 3199	Video Terminals	VIDEO	AZMIR	azmir.hajiabdghani@ap.sony.com
007.sht	9700 - 9899	Card Edge Connector	TUNER	KAMA	KamaAzira.Kamil@ap.sony.com

DIB APPLIED UNTIL: DIB 540

DATE: 25-NOV-2013(3.51 P.M)

ALL resistors are in ohms,W unless otherwise noted.

HISTORY K COUNT	SUFFIX REPL	ECN NO DATE	REVISION	SIGN.
1				
2				
3				
4				
5				
6				

DRAWN BY	PLANNED BY	CHECKED BY	APPROVED BY	TENTATIVE	MODEL / PART NO.

UNIT mm	TOLERANCE	USED ON	RANK
ANGLE °			FAMILY
SCALE :		ORIGINAL MODEL	
MATERIAL(COLOR)		FINISH(COLOR)	

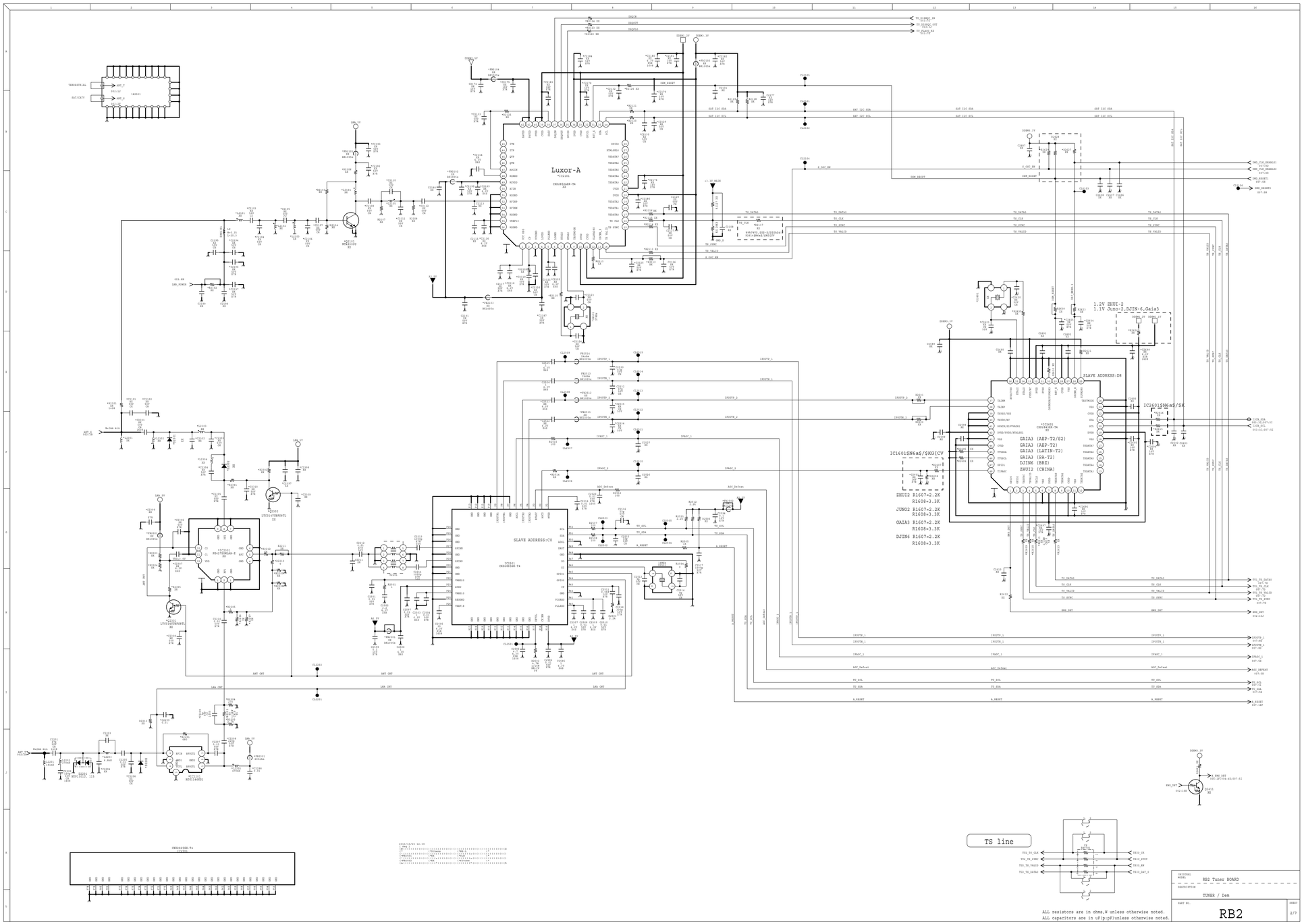
DESCRIPTION

(E) Tuner BOARD

(J) COVER SHEET

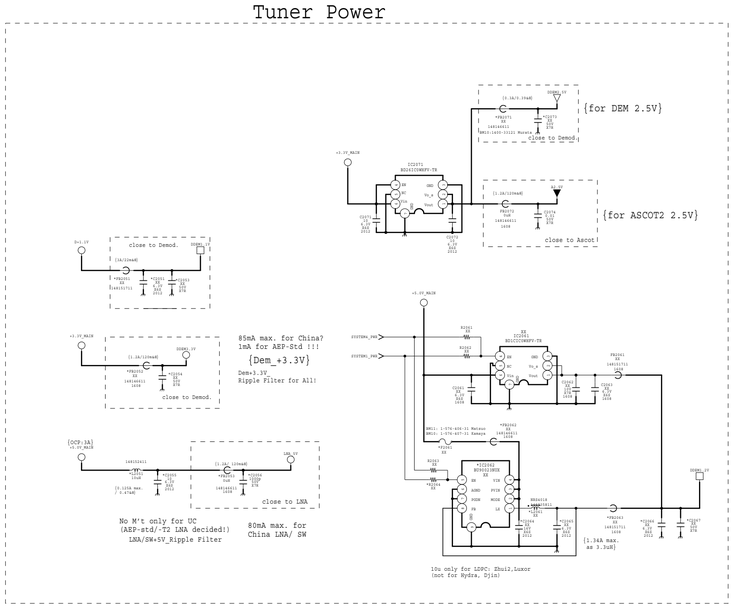
PART NO. RB2 SHEET 1/7

A BOARD SCHEMATIC DIAGRAM (19 OF 24)

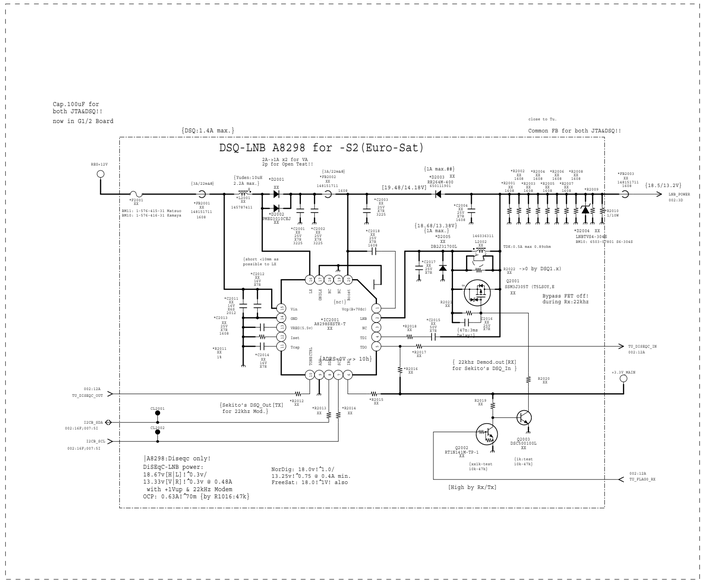


A BOARD SCHEMATIC DIAGRAM (20 OF 24)

Tuner Power



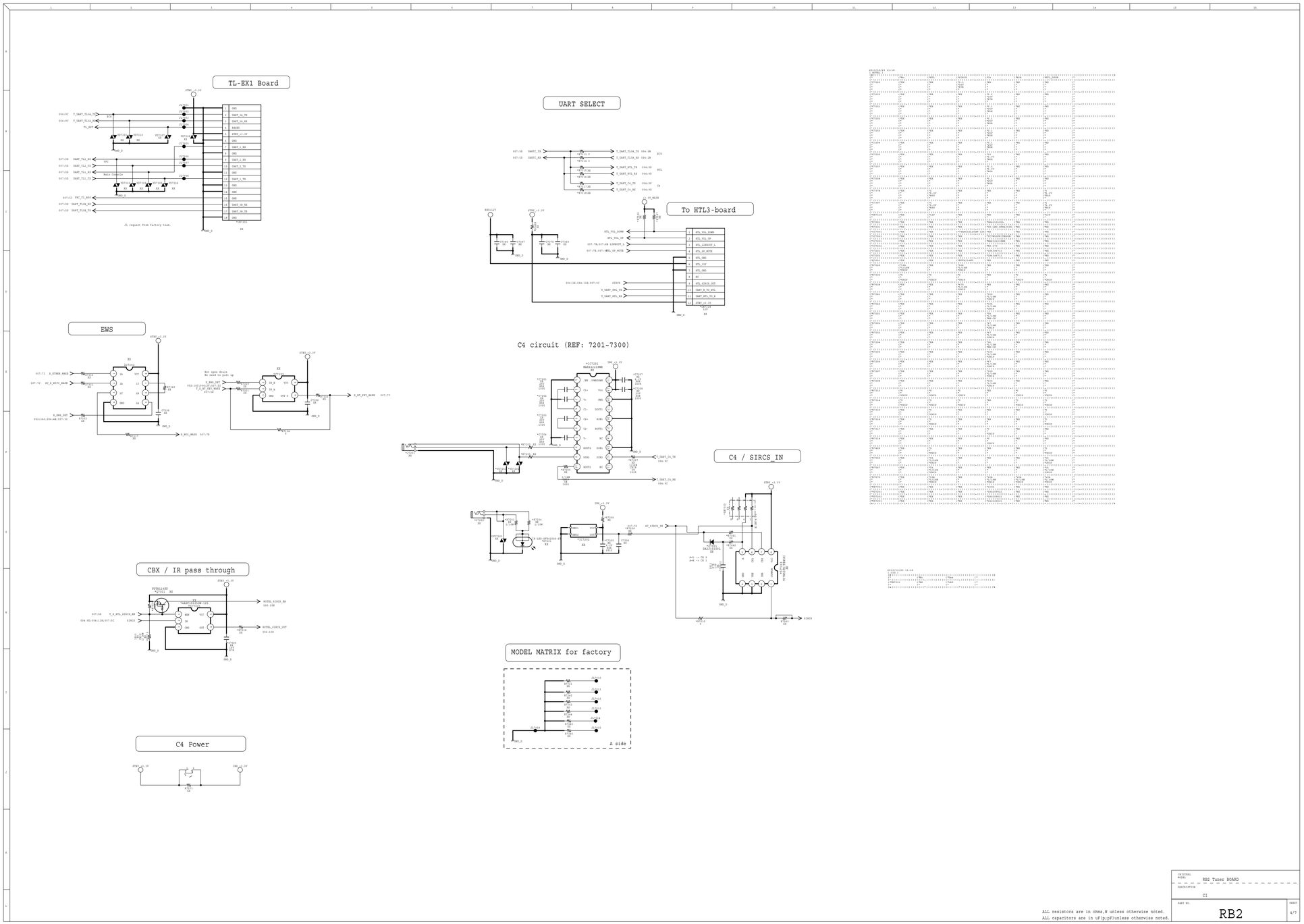
DiSEqC POWER For S2 model



ALL resistors are in ohms,K unless otherwise noted.
ALL capacitors are in uF(p;pF)unless otherwise noted.

ORIGINAL MODEL	RB2 Tuner BOARD
DESCRIPTION	DiSEqC POWER /Tuner POWER
PART NO.	RB2
SHEET	3/7

A BOARD SCHEMATIC DIAGRAM (21 OF 24)



A BOARD SCHEMATIC DIAGRAM (22 OF 24)

CI

CTRL to/from CAM

ADDR to CAM

DATA to/from CAM

TS from CAM to Brownie

TS from Brownie to CAM

CI I/F termination for Brownie

Bypath TS IF

These lines are extended for BS&I connection in TUN board.
For other model, bypath this connection.

CI SV SWITCH

PCMCIA CONNECTOR
JAE(CN1)
BASE: 1-842-673-11
ARM : 1-842-674-31

Kyocera(AEP)
BASE: 1-842-619-11
ARM : 1-842-601-12

PCMCIA DVB-CI CONNECTOR (BASE)

Ref:5301-5600

ALL resistors are in ohms,W unless otherwise noted.
ALL capacitors are in uF(p:pF)unless otherwise noted.

ORIGINAL MODEL	RB2 TUNER BOARD	
DESCRIPTION	CI	
PART NO.	RB2	SHEET 5/7

A BOARD SCHEMATIC DIAGRAM (23 OF 24)

CVBS / SCART

Except AEP

AEP

75ohm Driver for SCART Video OUT

Except AEP : Mount until MVT (Not need for PP/MP)

Optical OUT

Component

Y/CV GRN SW
Pb BLU
Pr RED SW
L WHT
R RED SW

PC

PC Audio

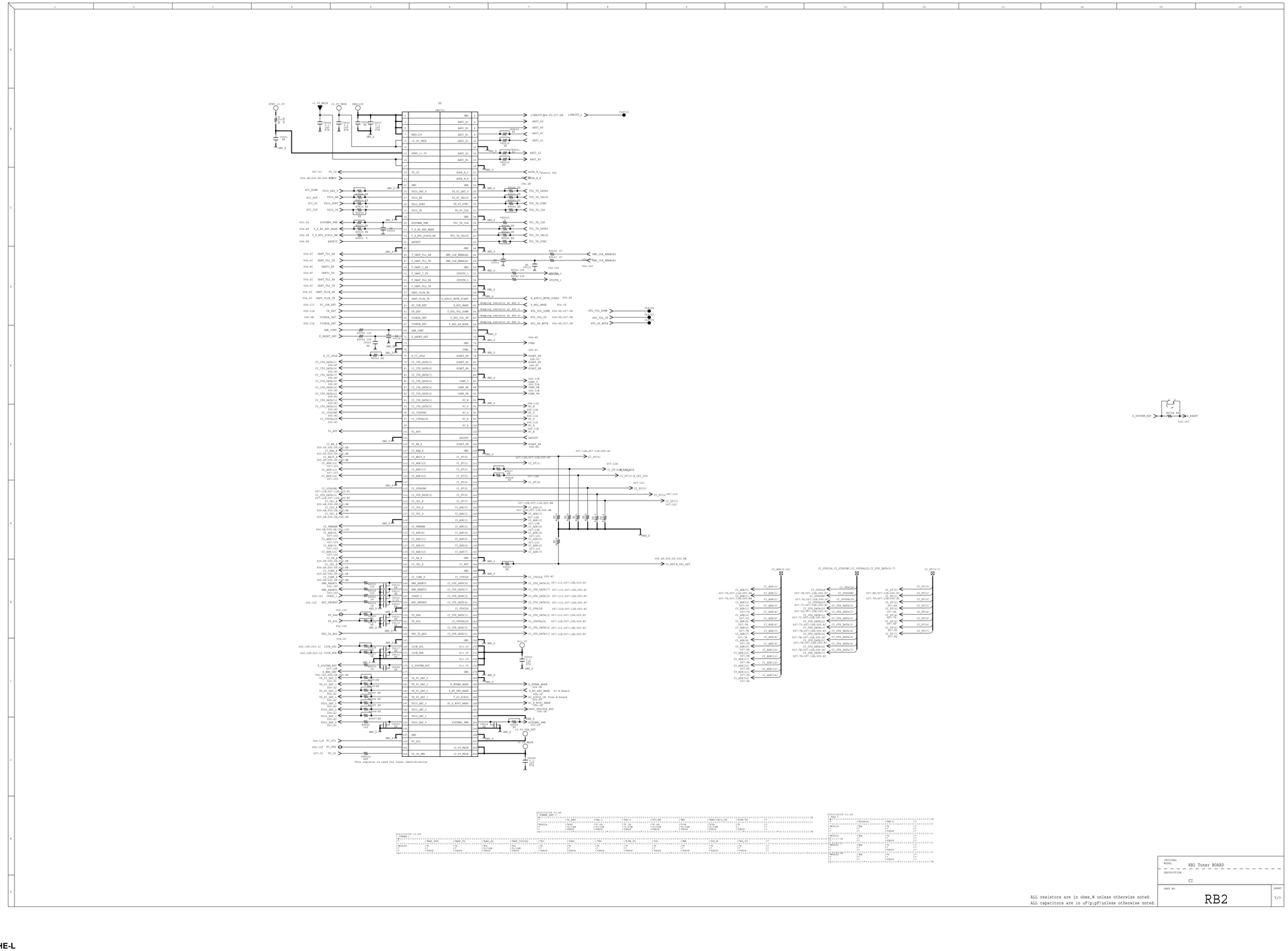
Audio Amp for SCART Audio Out

TV Out

ALL resistors are in ohms,W unless otherwise noted.
ALL capacitors are in uF(p;pF)unless otherwise noted.

ORIGINAL MODEL	RB2 Tuner BOARD
DESCRIPTION	SCART/CVBS/COMPONENT SIDE VIDEO/PC
PART NO.	RB2
SHEET	6/7

A BOARD SCHEMATIC DIAGRAM (24 OF 24)



SECTION 4: ELECTRICAL PART LIST

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

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See Appendix A: Encryption Key Components in the back of this manual.

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When ordering parts by reference number, please include the board name.

AFTER REPLACING THE MAIN BOARD OR LCD PANEL YOU MUST UPDATE THE SOFTWARE TO THE LATEST VERSION AND COMPLETE ANY SERVICE ADJUSTMENTS

BAXL

🔒 **BAXL BOARD, COMPLETE** **A-1998-282-D**
(FOR KDL-32W700B, 42W700B, 50W700B, 50W790B, 50WB790B, 55W700B, 55W790B, 55W800B US/CANADA/LATIN AMERICA/MEXICO MODELS ONLY)

🔒 **BAXL BOARD, COMPLETE** **A-1998-286-D**
(FOR KDL-42W805B, 50W805B, 55W805B ARGENTINA/BRAZIL MODELS ONLY)

🔒 **BAXL BOARD, COMPLETE** **A-1998-287-D**
(FOR KDL-50W805B, 55W805B CHILE-PERU/ECUADOR MODELS ONLY)

🔒 **BAXL BOARD, COMPLETE** **A-1998-283-D**
(FOR KDL-50W807, 55W807B COLOMBIA MODELS ONLY)

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REF. NO.	PART NO.	DESCRIPTION	REMARKS		
C1000	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C1012	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C1013	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C1401	111671411	CAP, CERAMIC 22MF X6S 2012	22 U	6.3V	20%
C1404	111839711	CAP, CERAMIC 3300PF X7R 1005	0.0033 U	50V	10%
C1407	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C1408	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C1409	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C1410	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C1501	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C1502	111673811	CAP, CERAMIC 1MF X6S 1005	1 U	6.3V	10%
C1503	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C1504	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C1505	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C1506	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C1507	111673811	CAP, CERAMIC 1MF X6S 1005	1 U	6.3V	10%
C1508	111673811	CAP, CERAMIC 1MF X6S 1005	1 U	6.3V	10%
C1509	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C1510	111673811	CAP, CERAMIC 1MF X6S 1005	1 U	6.3V	10%
C1511	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C1512	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C1531	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C1532	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C1533	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C1534	111671411	CAP, CERAMIC 22MF X6S 2012	22 U	6.3V	20%
C1551	111671411	CAP, CERAMIC 22MF X6S 2012	22 U	6.3V	20%
C1556	111671611	CAP, CERAMIC 10MF X6S 2012	10 U	16V	10%
C1557	111671411	CAP, CERAMIC 22MF X6S 2012	22 U	6.3V	20%
C1560	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C1561	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C3000	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C3003	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C3004	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C3005	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C3007	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C3008	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C3009	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C3010	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C3011	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C3012	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C3013	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C3014	111838611	CAP, CERAMIC 0.1MF X7R 1005 (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)	0.1 U	16V	10%
C3015	111838611	CAP, CERAMIC 0.1MF X7R 1005 (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)	0.1 U	16V	10%
C3016	111838611	CAP, CERAMIC 0.1MF X7R 1005 (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)	0.1 U	16V	10%
C3018	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C3019	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C3020	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C3021	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C3022	111838611	CAP, CERAMIC 0.1MF X7R 1005 (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)	0.1 U	16V	10%
C3023	111672011	CAP, CERAMIC 10MF X5R 1608	10 U	6.3V	20%
C3024	111672011	CAP, CERAMIC 10MF X5R 1608	10 U	6.3V	20%
C3028	111671411	CAP, CERAMIC 22MF X6S 2012	22 U	6.3V	20%
C3029	111838611	CAP, CERAMIC 0.1MF X7R 1005 (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)	0.1 U	16V	10%
C3030	111838611	CAP, CERAMIC 0.1MF X7R 1005 (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)	0.1 U	16V	10%
C4000	111840311	CAP, CERAMIC 1000PF X7R 1005	0.001 U	50V	10%
C4002	111840311	CAP, CERAMIC 1000PF X7R 1005	0.001 U	50V	10%
C4004	111840311	CAP, CERAMIC 1000PF X7R 1005	0.001 U	50V	10%
C4006	111840311	CAP, CERAMIC 1000PF X7R 1005	0.001 U	50V	10%
C4211	111673811	CAP, CERAMIC 1MF X6S 1005	1 U	6.3V	10%
C4212	111673811	CAP, CERAMIC 1MF X6S 1005	1 U	6.3V	10%
C4220	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%

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REF. NO.	PART NO.	DESCRIPTION	REMARKS		
C4221	111672411	CAP, CERAMIC 4.7MF X5R 1608	4.7 U	6.3V	20%
C4222	111672011	CAP, CERAMIC 10MF X5R 1608	10 U	6.3V	20%
C4500	111673811	CAP, CERAMIC 1MF X6S 1005	1 U	6.3V	10%
C4501	111673811	CAP, CERAMIC 1MF X6S 1005	1 U	6.3V	10%
C4502	111673811	CAP, CERAMIC 1MF X6S 1005	1 U	6.3V	10%
C4503	111671611	CAP, CERAMIC 10MF X6S 2012	10 U	16V	10%
C4593	111839011	CAP, CERAMIC 0.015MF X7R 1005	0.015 U	25V	10%
C4594	111839011	CAP, CERAMIC 0.015MF X7R 1005	0.015 U	25V	10%
C4600	111419311	CAP, ELECT 470MF (10X10)	470 U	25V	20%
C4601	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C4602	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C4603	111419311	CAP, ELECT 470MF (10X10)	470 U	25V	20%
C4606	111836111	CAP, CERAMIC 0.1MF X7R 1608	0.1 U	50V	10%
C4607	111836111	CAP, CERAMIC 0.1MF X7R 1608	0.1 U	50V	10%
C4608	111836111	CAP, CERAMIC 0.1MF X7R 1608	0.1 U	50V	10%
C4609	111836111	CAP, CERAMIC 0.1MF X7R 1608	0.1 U	50V	10%
C4611	111873211	CERAMIC CAP 0.22MF X7R 2012	0.22 U	50V	10%
C4612	111873211	CERAMIC CAP 0.22MF X7R 2012	0.22 U	50V	10%
C4613	111873211	CERAMIC CAP 0.22MF X7R 2012	0.22 U	50V	10%
C4614	111873211	CERAMIC CAP 0.22MF X7R 2012	0.22 U	50V	10%
C4650	111840711	CAP, CERAMIC 470PF X7R 1005	470 P	50V	10%
C4651	111840711	CAP, CERAMIC 470PF X7R 1005	470 P	50V	10%
C4660	111840711	CAP, CERAMIC 470PF X7R 1005	470 P	50V	10%
C4661	111840711	CAP, CERAMIC 470PF X7R 1005	470 P	50V	10%
C4670	111840711	CAP, CERAMIC 470PF X7R 1005	470 P	50V	10%
C4671	111839711	CAP, CERAMIC 3300PF X7R 1005	0.0033 U	50V	10%
C5006	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C5012	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C5016	111671411	CAP, CERAMIC 22MF X6S 2012	22 U	6.3V	20%
C5024	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C5026	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C5030	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C5032	111671411	CAP, CERAMIC 22MF X6S 2012	22 U	6.3V	20%
C5034	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C5035	111673811	CAP, CERAMIC 1MF X6S 1005	1 U	6.3V	10%
C5037	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C5038	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C5039	111673811	CAP, CERAMIC 1MF X6S 1005	1 U	6.3V	10%
C5042	111673811	CAP, CERAMIC 1MF X6S 1005	1 U	6.3V	10%
C5043	111673711	CAP, CERAMIC 1MF X5R 1005	1 U	10V	20%
C5046	111671411	CAP, CERAMIC 22MF X6S 2012	22 U	6.3V	20%
C5048	111673811	CAP, CERAMIC 1MF X6S 1005	1 U	6.3V	10%
C5049	111673811	CAP, CERAMIC 1MF X6S 1005	1 U	6.3V	10%
C5050	111671411	CAP, CERAMIC 22MF X6S 2012	22 U	6.3V	20%
C5052	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C5054	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C5055	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C5057	111673211	CAP, CERAMIC 2.2MF X5R 1005	2.2 U	6.3V	20%
C5059	116487481	CAP,CHIP CERAMIC 100PF CH 1005	100 P	50V	5%
C5071	111838911	CAP, CERAMIC 0.022MF X7R 1005	0.022 U	25V	10%
C5073	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C5075	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C5076	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C5078	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C5079	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C5087	111673811	CAP, CERAMIC 1MF X6S 1005	1 U	6.3V	10%
C5108	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C6400	116486081	CAP, CHIP CERAMIC 27PF CH 1005	27 P	50V	5%
C6401	111760781	CAP, CHIP CERAMIC 24PF CH 1005	24 P	50V	5%
C6402	111447291	CAP, CERAMIC 1000PF X7R (2000)	0.001 U	2K	10%
C6403	111839111	CAP, CERAMIC 0.01MF X7R 1005	0.01 U	50V	10%
C6404	111839111	CAP, CERAMIC 0.01MF X7R 1005	0.01 U	50V	10%
C6405	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C6406	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C6407	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C6408	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C6502	111673811	CAP, CERAMIC 1MF X6S 1005	1 U	6.3V	10%
C6506	111673811	CAP, CERAMIC 1MF X6S 1005	1 U	6.3V	10%
C6507	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C6508	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C6509	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C6510	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C6513	111650981	CAP,CHIP CERAMIC 30PF CH 1005	30 P	50V	5%
C6514	111650981	CAP,CHIP CERAMIC 30PF CH 1005	30 P	50V	5%
C6515	111673811	CAP, CERAMIC 1MF X6S 1005	1 U	6.3V	10%
C6523	111671411	CAP, CERAMIC 22MF X6S 2012	22 U	6.3V	20%
C6525	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C6526	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C6528	111671411	CAP, CERAMIC 22MF X6S 2012	22 U	6.3V	20%
C6529	111671411	CAP, CERAMIC 22MF X6S 2012	22 U	6.3V	20%
C6530	111671411	CAP, CERAMIC 22MF X6S 2012	22 U	6.3V	20%
C7044	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C7302	111839111	CAP, CERAMIC 0.01MF X7R 1005	0.01 U	50V	10%
C7305	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C7308	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C7348	111840311	CAP, CERAMIC 1000PF X7R 1005	0.001 U	50V	10%
C7349	111839111	CAP, CERAMIC 0.01MF X7R 1005	0.01 U	50V	10%
C7356	116484781	CAP, CHIP CERAMIC 7PF CH 1005	7P	50V	0.5PF

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REF. NO.	PART NO.	DESCRIPTION	REMARKS		
C7357	116484781	CAP, CHIP CERAMIC 7PF CH 1005	7P	50V	0.5PF
C7358	116485081	CAP, CHIP CERAMIC 10PF CH 1005	10P	50V	0.5PF
C7359	116484981	CAP, CHIP CERAMIC 9PF CH 1005	9P	50V	0.5PF
C7366	111673811	CAP, CERAMIC 1MF X6S 1005	1 U	6.3V	10%
C7367	111840311	CAP, CERAMIC 1000PF X7R 1005	0.001 U	50V	10%
C7368	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C7369	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C7370	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C7371	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C7374	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C7375	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C7376	111672011	CAP, CERAMIC 10MF X5R 1608	10 U	6.3V	20%
C7377	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C7378	111840311	CAP, CERAMIC 1000PF X7R 1005	0.001 U	50V	10%
C7379	111672011	CAP, CERAMIC 10MF X5R 1608	10 U	6.3V	20%
C7380	111672011	CAP, CERAMIC 10MF X5R 1608	10 U	6.3V	20%
C7381	111673711	CAP, CERAMIC 1MF X5R 1005	1 U	10V	20%
C7385	111673811	CAP, CERAMIC 1MF X6S 1005	1 U	6.3V	10%
C7386	111673811	CAP, CERAMIC 1MF X6S 1005	1 U	6.3V	10%
C7387	111673811	CAP, CERAMIC 1MF X6S 1005	1 U	6.3V	10%
C7388	111673811	CAP, CERAMIC 1MF X6S 1005	1 U	6.3V	10%
C7389	111671411	CAP, CERAMIC 22MF X6S 2012	22 U	6.3V	20%
C7390	111671411	CAP, CERAMIC 22MF X6S 2012	22 U	6.3V	20%
C8001	111671411	CAP, CERAMIC 22MF X6S 2012	22 U	6.3V	20%
C8002	111672011	CAP, CERAMIC 10MF X5R 1608	10 U	6.3V	20%
C8034	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C8042	111839111	CAP, CERAMIC 0.01MF X7R 1005	0.01 U	50V	10%
C8048	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C8049	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C8201	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C8202	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C8500	112870281	CAP,CHIP CERAMIC 11PF CH(1005)	11P	50V	5%
C8501	116485081	CAP, CHIP CERAMIC 10PF CH 1005	10P	50V	0.5PF
C8509	111839111	CAP, CERAMIC 0.01MF X7R 1005	0.01 U	50V	10%
C9109	111840311	CAP, CERAMIC 1000PF X7R 1005	0.001 U	50V	10%
C9114	111699811	CAP, CERAMIC 10MF X6S 3216	10 U	25V	10%
C9115	111840311	CAP, CERAMIC 1000PF X7R 1005	0.001 U	50V	10%
C9118	111839011	CAP, CERAMIC 0.015MF X7R 1005	0.015 U	25V	10%
C9121	111840311	CAP, CERAMIC 1000PF X7R 1005	0.001 U	50V	10%
C9123	111840311	CAP, CERAMIC 1000PF X7R 1005	0.001 U	50V	10%
C9126	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C9127	116485481	CAP, CHIP CERAMIC 15PF CH 1005	15P	50V	5%
C9129	111840311	CAP, CERAMIC 1000PF X7R 1005	0.001 U	50V	10%
C9131	111840311	CAP, CERAMIC 1000PF X7R 1005	0.001 U	50V	10%

REF. NO.	PART NO.	DESCRIPTION	REMARKS		
C9132	111841111	CAP, CERAMIC 270PF X7R 1005	270 P	50V	10%
C9133	111840311	CAP, CERAMIC 1000PF X7R 1005	0.001 U	50V	10%
C9134	111840311	CAP, CERAMIC 1000PF X7R 1005	0.001 U	50V	10%
C9135	111840311	CAP, CERAMIC 1000PF X7R 1005	0.001 U	50V	10%
C9137	111671211	CAP, CERAMIC 22MF X6S 3216	22 U	10V	10%
C9147	111671911	CAP, CERAMIC 10MF X6S 2012	10 U	6.3V	10%
C9148	111674511	CAP, CERAMIC 0.22MF X6S 1005	0.22 U	6.3V	10%
C9150	111838711	CAP, CERAMIC 0.068MF X7R 1005	0.068 U	16V	10%
C9153	111670811	CAP, CERAMIC 47MF X6S 3216	47 U	6.3V	20%
C9154	111837311	CAP, CERAMIC 0.01MF X7R 1608	0.01 U	50V	10%
C9155	111699811	CAP, CERAMIC 10MF X6S 3216	10 U	25V	10%
C9158	111699811	CAP, CERAMIC 10MF X6S 3216	10 U	25V	10%
C9160	111699811	CAP, CERAMIC 10MF X6S 3216	10 U	25V	10%
C9161	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C9162	111839111	CAP, CERAMIC 0.01MF X7R 1005	0.01 U	50V	10%
C9164	111673611	CAP, CERAMIC 1MF X7R 1608	1 U	10V	10%
C9165	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%
C9167	111671911	CAP, CERAMIC 10MF X6S 2012	10 U	6.3V	10%
C9168	111671411	CAP, CERAMIC 22MF X6S 2012	22 U	6.3V	20%
C9170	111671411	CAP, CERAMIC 22MF X6S 2012	22 U	6.3V	20%
C9171	111699811	CAP, CERAMIC 10MF X6S 3216	10 U	25V	10%
C9172	111670811	CAP, CERAMIC 47MF X6S 3216	47 U	6.3V	20%
C9173	111671411	CAP, CERAMIC 22MF X6S 2012	22 U	6.3V	20%
C9175	111671411	CAP, CERAMIC 22MF X6S 2012	22 U	6.3V	20%
C9178	111839111	CAP, CERAMIC 0.01MF X7R 1005	0.01 U	50V	10%
C9179	111671411	CAP, CERAMIC 22MF X6S 2012	22 U	6.3V	20%
C9181	111699811	CAP, CERAMIC 10MF X6S 3216	10 U	25V	10%
C9182	111699811	CAP, CERAMIC 10MF X6S 3216	10 U	25V	10%
C9183	111836111	CAP, CERAMIC 0.1MF X7R 1608	0.1 U	50V	10%
C9184	111836111	CAP, CERAMIC 0.1MF X7R 1608	0.1 U	50V	10%
C9185	111837311	CAP, CERAMIC 0.01MF X7R 1608	0.01 U	50V	10%
C9186	111673311	CAP, CERAMIC 1MF X7R 2012	1 U	25V	10%
C9187	111837211	CAP, CERAMIC 0.012MF X7R 1608	0.012 U	50V	10%
C9188	111836111	CAP, CERAMIC 0.1MF X7R 1608	0.1 U	50V	10%
C9189	111699811	CAP, CERAMIC 10MF X6S 3216	10 U	25V	10%
C9190	111699811	CAP, CERAMIC 10MF X6S 3216	10 U	25V	10%
C9192	111671211	CAP, CERAMIC 22MF X6S 3216	22 U	10V	10%
C9193	111671211	CAP, CERAMIC 22MF X6S 3216	22 U	10V	10%
C9194	111671211	CAP, CERAMIC 22MF X6S 3216	22 U	10V	10%
C9196	111840311	CAP, CERAMIC 1000PF X7R 1005	0.001 U	50V	10%
C9197	111840311	CAP, CERAMIC 1000PF X7R 1005	0.001 U	50V	10%
C9201	111673811	CAP, CERAMIC 1MF X6S 1005	1 U	6.3V	10%
C9202	111673111	CAP, CERAMIC 2.2MF X6S 1608	2.2 U	6.3V	20%
C9204	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U	16V	10%

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REF. NO.	PART NO.	DESCRIPTION	REMARKS
C9205	111671411	CAP, CERAMIC 22MF X6S 2012	22 U 6.3V 20%
C9208	111671411	CAP, CERAMIC 22MF X6S 2012	22 U 6.3V 20%
C9209	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U 16V 10%
C9210	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U 16V 10%
C9216	111672011	CAP, CERAMIC 10MF X5R 1608	10 U 6.3V 20%
C9220	111672011	CAP, CERAMIC 10MF X5R 1608	10 U 6.3V 20%
C9221	111672011	CAP, CERAMIC 10MF X5R 1608	10 U 6.3V 20%
C9222	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U 16V 10%
C9223	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U 16V 10%
C9224	111672011	CAP, CERAMIC 10MF X5R 1608	10 U 6.3V 20%
C9225	111672011	CAP, CERAMIC 10MF X5R 1608	10 U 6.3V 20%
C9226	111839711	CAP, CERAMIC 3300PF X7R 1005	0.0033 U 50V 10%
C9230	111839711	CAP, CERAMIC 3300PF X7R 1005	0.0033 U 50V 10%
C9233	111839711	CAP, CERAMIC 3300PF X7R 1005	0.0033 U 50V 10%
C9235	111839711	CAP, CERAMIC 3300PF X7R 1005	0.0033 U 50V 10%
C9236	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U 16V 10%
C9237	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U 16V 10%
C9238	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U 16V 10%
C9239	111671411	CAP, CERAMIC 22MF X6S 2012	22 U 6.3V 20%
C9240	111671411	CAP, CERAMIC 22MF X6S 2012	22 U 6.3V 20%
C9241	111671411	CAP, CERAMIC 22MF X6S 2012	22 U 6.3V 20%
C9503	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U 16V 10%
C9504	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U 16V 10%
C9505	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U 16V 10%
C9506	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U 16V 10%
C9507	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U 16V 10%
C9601	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U 16V 10%
C9602	111840311	CAP, CERAMIC 1000PF X7R 1005	0.001 U 50V 10%
C9603	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U 16V 10%
C9604	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U 16V 10%
C9605	111673811	CAP, CERAMIC 1MF X6S 1005	1 U 6.3V 10%
C9606	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U 16V 10%
C9608	111673811	CAP, CERAMIC 1MF X6S 1005	1 U 6.3V 10%
C9609	111838611	CAP, CERAMIC 0.1MF X7R 1005	0.1 U 16V 10%
CN4601	184256612	HEADER ASSEMBLY FOR PWB 4P	
CN5001	182263722	HDMI CONNECTOR	
CN5001	184268011	HDMI CONNECTOR	
CN5001	184268511	HDMI CONNECTOR	
CN5002	182263722	HDMI CONNECTOR	
CN5002	184268011	HDMI CONNECTOR	
CN5002	184268511	HDMI CONNECTOR	
CN5003	182263722	HDMI CONNECTOR	
CN5003	184268011	HDMI CONNECTOR	
CN5003	184268511	HDMI CONNECTOR	
CN5004	182263722	HDMI CONNECTOR	
CN5004	184268011	HDMI CONNECTOR	
CN5004	184268511	HDMI CONNECTOR	
CN6400	184260012	ETHERNET CONNECTOR	
CN6400	184366411	ETHERNET CONNECTOR	
CN6400	184396511	ETHERNET CONNECTOR	
CN6501	184267513	USB CONNECTOR	
CN6501	184319911	USB CONNECTOR	
CN6501	184357611	USB CONNECTOR	
CN6502	184267513	USB CONNECTOR	
CN6502	184319911	USB CONNECTOR	
CN6502	184357611	USB CONNECTOR	
CN8001	184254621	FFC/FPC CONNECTOR (NON ZIF)51P	
CN8001	184310712	FFC/FPC CONNECTOR (NON ZIF)51P	
CN9101	184391711	HEADER ASSEMBLY 30P	
CN9501	184392111	CARD EDGE CONNECTOR (204P)	
CN9501	184393311	CARD EDGE CONNECTOR (204P)	
D5001	650357901	DI RB521SM-30GJT2R	
D5001	650373801	DI CES521	
D5002	650357901	DI RB521SM-30GJT2R	
D5002	650373801	DI CES521	
D5006	650293401	DI DB2S31100K8	
D5007	650357901	DI RB521SM-30GJT2R	
D5007	650373801	DI CES521	
D5008	650305401	DI BAT54J	
D9101	650273001	DI RSX301L-30USTE25	
D9102	650297001	DI DZ2J068M0L	
F4601	152314431	MICRO FUSE-LINK (1608 TYPE)	5A 32V
F4601	157693331	FUSE, MICRO (1608)	5A 24V
F8001	152312431	MICRO FUSE-LINKS (1608 TYPE)	4A 24V
F8001	157695831	MICRO FUSE-LINK (1608 TYPE)	4A 24V
F9101	157641531	FUSE, MICRO (1608)	2A 32V
F9101	157641631	MICRO FUSE-LINK (1608 TYPE)	2A 36V
F9102	152312431	MICRO FUSE-LINKS (1608 TYPE)	4A 24V
F9102	157695831	MICRO FUSE-LINK (1608 TYPE)	4A 24V
F9104	157641531	FUSE, MICRO (1608)	2A 32V
F9104	157641631	MICRO FUSE-LINK (1608 TYPE)	2A 36V
F9105	157641531	FUSE, MICRO (1608)	2A 32V
F9105	157641631	MICRO FUSE-LINK (1608 TYPE)	2A 36V
F9106	157641531	FUSE, MICRO (1608)	2A 32V
F9106	157641631	MICRO FUSE-LINK (1608 TYPE)	2A 36V
FB4601	146932421	FERRITE, EMI (SMD) (2012)	
FB6400	148109621	FERRITE, EMI (SMD) (1005)	
FB7300	121899081	CONDUCTOR, CHIP (1005)	

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REF. NO.	PART NO.	DESCRIPTION	REMARKS
FB7301	121899081	CONDUCTOR, CHIP (1005)	
FB9100	148146411	BEAD, FERRITE (1608)	
FL4200	120001421	FILTER, EMI REMOVAL (SMD)	
IC1000	671870201	IC MT29F8G08ABACAWP-IT:C	MCR
IC1000	672025001	IC TC58NVG3S0FTAI0B4Q	TSB
IC1402	672072301	IC H5TQ4G63AFR-PBCR	HND
IC1402	672147201	IC K4B4G1646D-BCMA000	SAM
IC1403	672072301	IC H5TQ4G63AFR-PBCR	HND
IC1403	672147201	IC K4B4G1646D-BCMA000	SAM
IC4501	671819401	IC TPA6138A2PWR	TXI
IC4601	672067301	IC YDA179-SZE2	YMH
IC5009	672025101	IC SII9589CTUCTR	SII
IC5010	671516401	IC TPS2553DBVR	TXI
IC6400	671824901	IC RTL8201FR-VB-CGT	Z75
IC6400	671824911	IC RTL8201FR-VB-CGT	Z75
IC6501	672115101	IC GL850G-OGY33	GSL
IC6502	671825301	IC BD2231G-TR	ROM
IC6503	672120301	IC BD2235G-GTR	ROM
IC7001	671684301	IC MM3285FNRE	MTM
IC7302	671333301	IC PST8429UL	MTM
IC7303	671036901	IC 74LVC1G08GW-125	NXP
IC7303	671503901	IC TC7SZ08FU,RSONYJ	TSB
IC7304	671831801	IC BU18TD3WG-TR	ROM
IC7304	671926301	IC MM3411A18NRE	MTM
IC7305	671925601	IC MM3411A10NRE	MTM
IC8000	671032701	IC 74LVC2G07GW-125	NXP
IC8201	671239701	IC 74AHC1G08GW-125	NXP
IC8201	671503901	IC TC7SZ08FU,RSONYJ	TSB
IC8202	671239701	IC 74AHC1G08GW-125	NXP
IC8202	671503901	IC TC7SZ08FU,RSONYJ	TSB
IC9000	875344161	CXD4748GB	SNY
IC9001	875343323	IC CXD4739GB-T8	SNY
IC9001	875343326	IC CXD4743GB-T8	SNY
IC9101	671847911	IC TPS54332CDDAR	TXI
IC9102	672112501	IC NN30321A	MTS
IC9102	672128101	IC NN30321AAVB	MTS
IC9103	672073601	IC ISL95870BHRZ-T	ITN
IC9104	671819201	IC SN1011047PWPR	TXI
IC9105	672019801	IC BU90028NUX-TR	ROM
IC9201	672024601	IC S-13A1A18-A6T1U3	SIK
L4601	146061511	CHOKE COIL 10UH	
L4602	146061511	CHOKE COIL 10UH	
L4603	146061511	CHOKE COIL 10UH	
L4604	146061511	CHOKE COIL 10UH	

REF. NO.	PART NO.	DESCRIPTION	REMARKS
L8000	123440021	CONDUCTOR, NETWORK (1005X4)	0.05 O
L8000	125757821	CONDUCTOR, NETWORK (1005X4)	O
L8001	123440021	CONDUCTOR, NETWORK (1005X4)	0.05 O
L8001	125757821	CONDUCTOR, NETWORK (1005X4)	O
L8002	123440021	CONDUCTOR, NETWORK (1005X4)	0.05 O
L8002	125757821	CONDUCTOR, NETWORK (1005X4)	O
L8003	123440021	CONDUCTOR, NETWORK (1005X4)	0.05 O
L8003	125757821	CONDUCTOR, NETWORK (1005X4)	O
L8004	123440021	CONDUCTOR, NETWORK (1005X4)	0.05 O
L8004	125757821	CONDUCTOR, NETWORK (1005X4)	O
L8005	123440021	CONDUCTOR, NETWORK (1005X4)	0.05 O
L8005	125757821	CONDUCTOR, NETWORK (1005X4)	O
L9103	146060711	COIL, CHOKE 3.3UH	3.3 0.027 O
L9104	146042611	COIL, CHOKE 1.0UH	0.014 O
L9105	146035811	COIL, CHOKE 2.2UH (4018)	2.2 0.042 O
L9106	146060611	COIL, CHOKE 2.2UH	2.2 0.022 O
L9108	146060911	CHOKE COIL 3.3UH	3.3 0.024 O
Q1000	655294901	TR LTC044EUBFS8TL	ROM 0V 0A
Q1000	655310501	TR PDTC144EU	NXP 50V 0M
Q1000	872902914	TRANSISTOR DTC144EUA-T106	ROM 0V 100M
Q1001	655285201	TR SSM3J328R	TSB
Q1001	655320301	TR PMV32UP	NXP
Q5005	655058501	TRANSISTOR 2PC4081R-115	NXP 50V 100M
Q5005	655289201	TR LSCR523UBFS8TL	ROM 50V 0.1A
Q5009	655058501	TRANSISTOR 2PC4081R-115	NXP 50V 100M
Q5009	655289201	TR LSCR523UBFS8TL	ROM 50V 0.1A
Q5010	655293601	TR LTC014EUBFS8TL	ROM 0V 0A
Q5010	872902896	TRANSISTOR DTC114EUA-T106	ROM 0V 100M
Q5011	655270001	TR SSM3K15AMFV,L3SF	TSB T1
Q5011	655302301	TR FK3303010L	MTS T1
Q5012	655285201	TR SSM3J328R	TSB T1
Q5013	655294901	TR LTC044EUBFS8TL	ROM 0V 0A
Q5013	655310501	TR PDTC144EU	NXP 50V 0M
Q5013	872902914	TRANSISTOR DTC144EUA-T106	ROM 0V 100M
Q7303	655097801	TR RN1902	TSB 50V 0.1A
Q7303	655342601	TR PUMH11	NXP 0V 0M
Q7311	655098701	TR RN1911	TSB 50V 0.1A
Q7311	655347601	TR PUMH4	NXP 50V 0M
Q8001	655285201	TR SSM3J328R	TSB T1
Q8002	655294901	TR LTC044EUBFS8TL	ROM 0V 0A
Q8002	655310501	TR PDTC144EU	NXP 50V 0M
Q8002	872902914	TRANSISTOR DTC144EUA-T106	ROM 0V 100M
Q8003	655097801	TR RN1902	TSB 50V 0.1A
Q9106	655294901	TR LTC044EUBFS8TL	ROM 0V 0A
Q9106	655310501	TR PDTC144EU	NXP 50V 0M

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Q9106	872902914	TRANSISTOR DTC144EUA-T106	ROM 0V 100M
Q9107	655285201	TR SSM3J328R	TSB T1
Q9107	655320301	TR PMV32UP	NXP T1
Q9108	655338801	TR HS8K1TB	ROM D3
Q9108	655339401	TR AON7932	AOS T1
Q9108	655350201	TR AON7934	AOS T1
Q9109	655293701	TR LTC014TUBFS8TL	ROM 50V 0.1A
Q9109	655345101	TR PDTC114TU	NXP 50V 0M
R1003	121897781	RES, CHIP 100K (1005)	100 K
R1008	121896581	RES, CHIP 10K (1005)	10 K
R1019	121893781	RES, CHIP 47 (1005)	47 O
R1020	121893781	RES, CHIP 47 (1005)	47 O
R1022	121893781	RES, CHIP 47 (1005)	47 O
R1026	121895381	RES, CHIP 1.0K (1005)	1 K
R1027	121897381	RES, CHIP 47K (1005)	47 K
R1028	121897381	RES, CHIP 47K (1005)	47 K
R1037	121899081	CONDUCTOR, CHIP (1005)	
R1038	121899081	CONDUCTOR, CHIP (1005)	
R1040	121899081	CONDUCTOR, CHIP (1005)	
R1041	121899081	CONDUCTOR, CHIP (1005)	
R1042	121899081	CONDUCTOR, CHIP (1005)	
R1043	121899081	CONDUCTOR, CHIP (1005)	
R1401	125051911	RES, METAL FILM CHIP 10K(1005)	10 K
R1402	125051911	RES, METAL FILM CHIP 10K(1005)	10 K
R1404	125047111	RES, METAL FILM CHIP 100(1005)	100 O
R1406	125048011	RES, METAL FILM CHIP 240(1005)	240 O
R1407	125048011	RES, METAL FILM CHIP 240(1005)	240 O
R1408	125051911	RES, METAL FILM CHIP 10K(1005)	10 K
R1409	125051911	RES, METAL FILM CHIP 10K(1005)	10 K
R1410	125051911	RES, METAL FILM CHIP 10K(1005)	10 K
R1411	125051911	RES, METAL FILM CHIP 10K(1005)	10 K
R1412	125051911	RES, METAL FILM CHIP 10K(1005)	10 K
R1413	125051911	RES, METAL FILM CHIP 10K(1005)	10 K
R1414	125051911	RES, METAL FILM CHIP 10K(1005)	10 K
R1415	125051911	RES, METAL FILM CHIP 10K(1005)	10 K
R3000	121894181	RES, CHIP 100 (1005)	100 O
R3003	121894181	RES, CHIP 100 (1005)	100 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
R3004	121894181	RES, CHIP 100 (1005)	100 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
R3005	121894181	RES, CHIP 100 (1005)	100 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
R3007	121894181	RES, CHIP 100 (1005)	100 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
R3008	125058911	RES, METAL FILM CHIP 75 (1608)	75 O
R3009	125058911	RES, METAL FILM CHIP 75 (1608)	75 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
R3010	125058911	RES, METAL FILM CHIP 75 (1608)	75 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
R3011	125058911	RES, METAL FILM CHIP 75 (1608)	75 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
R3013	125058911	RES, METAL FILM CHIP 75 (1608)	75 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
R3014	121893781	RES, CHIP 47 (1005)	47 O
R3015	121893781	RES, CHIP 47 (1005)	47 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
R3017	121893781	RES, CHIP 47 (1005)	47 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
R3021	125058911	RES, METAL FILM CHIP 75 (1608)	75 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
R3022	125058911	RES, METAL FILM CHIP 75 (1608)	75 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
R3023	125058911	RES, METAL FILM CHIP 75 (1608)	75 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
R3024	125058911	RES, METAL FILM CHIP 75 (1608)	75 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
R3025	125058911	RES, METAL FILM CHIP 75 (1608)	75 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
R3026	125058911	RES, METAL FILM CHIP 75 (1608)	75 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
R4508	121895381	RES, CHIP 1.0K (1005)	1 K
R4601	121896181	RES, CHIP 4.7K (1005)	4.7 K
R4602	121896181	RES, CHIP 4.7K (1005)	4.7 K
R4651	121679791	RES, CHIP 10 (1608)	10 O
R4652	121679791	RES, CHIP 10 (1608)	10 O
R4661	121679791	RES, CHIP 10 (1608)	10 O
R4662	121679791	RES, CHIP 10 (1608)	10 O
R4991	121894181	RES, CHIP 100 (1005)	100 O

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REF. NO.	PART NO.	DESCRIPTION	REMARKS
R4992	121894181	RES, CHIP 100 (1005)	100 O
R4993	121894181	RES, CHIP 100 (1005)	100 O
R4994	121894181	RES, CHIP 100 (1005)	100 O
R4999	121894181	RES, CHIP 100 (1005)	100 O
R5002	121895681	RES, CHIP 1.8K (1005)	1.8 K
R5003	125049111	RES, METAL FILM CHIP 680(1005)	680 O
R5010	121899081	CONDUCTOR, CHIP (1005)	
R5027	121899081	CONDUCTOR, CHIP (1005)	
R5034	125052611	RES, METAL FILM CHIP 20K(1005)	20 K
R5035	121896581	RES, CHIP 10K (1005)	10 K
R5036	121898181	RES, CHIP 220K (1005)	220 K
R5048	121896181	RES, CHIP 4.7K (1005)	4.7 K
R5049	121896581	RES, CHIP 10K (1005)	10 K
R5051	121896581	RES, CHIP 10K (1005)	10 K
R5052	121896181	RES, CHIP 4.7K (1005)	4.7 K
R5066	121897081	RES, CHIP 27K (1005)	27 K
R5068	121892981	RES, CHIP 10 (1005)	10 O
R5071	125051111	RES,METAL FILM CHIP 4.7K(1005)	4.7 K
R5076	121686491	CONDUCTOR, CHIP (1608)	
R5085	125049511	RES,METAL FILM CHIP 1.0K(1005)	1 K
R5090	125049511	RES,METAL FILM CHIP 1.0K(1005)	1 K
R5092	121897381	RES, CHIP 47K (1005)	47 K
R5099	121897381	RES, CHIP 47K (1005)	47 K
R5100	121897381	RES, CHIP 47K (1005)	47 K
R5105	121892981	RES, CHIP 10 (1005)	10 O
R5110	121896181	RES, CHIP 4.7K (1005)	4.7 K
R5111	121897781	RES, CHIP 100K (1005)	100 K
R5120	121895381	RES, CHIP 1.0K (1005)	1 K
R5121	121896181	RES, CHIP 4.7K (1005)	4.7 K
R5123	121680391	RES, CHIP 33 (1608)	33 O
R5124	121680391	RES, CHIP 33 (1608)	33 O
R5133	122080381	RES, CHIP 4.7 (1005)	4.7 O
R5134	122080381	RES, CHIP 4.7 (1005)	4.7 O
R5135	122080381	RES, CHIP 4.7 (1005)	4.7 O
R5136	122080381	RES, CHIP 4.7 (1005)	4.7 O
R5137	122080381	RES, CHIP 4.7 (1005)	4.7 O
R5138	122080381	RES, CHIP 4.7 (1005)	4.7 O
R5139	122080381	RES, CHIP 4.7 (1005)	4.7 O
R5140	122080381	RES, CHIP 4.7 (1005)	4.7 O
R5144	121897781	RES, CHIP 100K (1005)	100 K
R5145	121897781	RES, CHIP 100K (1005)	100 K
R5147	121897581	RES, CHIP 68K (1005)	68 K
R5151	121897781	RES, CHIP 100K (1005)	100 K
R5153	121898581	RES, CHIP 470K (1005)	470 K
R5154	121898781	RES, CHIP 680K (1005)	680 K
R6022	121899081	CONDUCTOR, CHIP (1005)	
R6412	121896181	RES, CHIP 4.7K (1005)	4.7 K
R6413	121896181	RES, CHIP 4.7K (1005)	4.7 K
R6415	121896181	RES, CHIP 4.7K (1005)	4.7 K
R6418	121896181	RES, CHIP 4.7K (1005)	4.7 K
R6501	125046211	RES, METAL FILM CHIP 43 (1005)	43 O
R6502	125046211	RES, METAL FILM CHIP 43 (1005)	43 O
R6509	125049111	RES, METAL FILM CHIP 680(1005)	680 O
R6512	121897781	RES, CHIP 100K (1005)	100 K
R6514	121897381	RES, CHIP 47K (1005)	47 K
R6515	121897381	RES, CHIP 47K (1005)	47 K
R7004	121899081	CONDUCTOR, CHIP (1005)	
R7010	121899081	CONDUCTOR, CHIP (1005)	
R7011	121899081	CONDUCTOR, CHIP (1005)	
R7039	121899081	CONDUCTOR, CHIP (1005)	
R7047	121899081	CONDUCTOR, CHIP (1005)	
R7303	121897381	RES, CHIP 47K (1005)	47 K
R7305	121895781	RES, CHIP 2.2K (1005)	2.2 K
R7306	121897381	RES, CHIP 47K (1005)	47 K
R7317	121896181	RES, CHIP 4.7K (1005)	4.7 K
R7318	121895381	RES, CHIP 1.0K (1005)	1 K
R7322	121895981	RES, CHIP 3.3K (1005)	3.3 K
R7323	121895381	RES, CHIP 1.0K (1005)	1 K
R7324	121896181	RES, CHIP 4.7K (1005)	4.7 K
R7325	121895781	RES, CHIP 2.2K (1005)	2.2 K
R7326	125052711	RES, METAL FILM CHIP 22K(1005)	22 K
R7327	125050311	RES,METAL FILM CHIP 2.2K(1005)	2.2 K
R7334	121896181	RES, CHIP 4.7K (1005)	4.7 K
R7340	121894181	RES, CHIP 100 (1005)	100 O
R7341	121894181	RES, CHIP 100 (1005)	100 O
R7342	121894181	RES, CHIP 100 (1005)	100 O
R7343	121894181	RES, CHIP 100 (1005)	100 O
R7344	121894181	RES, CHIP 100 (1005)	100 O
R7345	121894181	RES, CHIP 100 (1005)	100 O
R7347	121897381	RES, CHIP 47K (1005)	47 K
R7348	121897381	RES, CHIP 47K (1005)	47 K
R7353	121897381	RES, CHIP 47K (1005)	47 K
R7354	125052611	RES, METAL FILM CHIP 20K(1005)	20 K
R7355	125052711	RES, METAL FILM CHIP 22K(1005)	22 K
R7366	121899081	CONDUCTOR, CHIP (1005)	
R7378	121899081	CONDUCTOR, CHIP (1005)	
R7379	121899081	CONDUCTOR, CHIP (1005)	
R7396	124560481	RES, CHIP 10M (1005)	10 M

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REF. NO.	PART NO.	DESCRIPTION	REMARKS
R7397	121895181	RES, CHIP 680 (1005)	680 O
R7398	121899081	CONDUCTOR, CHIP (1005)	
R7401	121897281	RES, CHIP 39K (1005)	39 K
R7402	125052611	RES, METAL FILM CHIP 20K(1005)	20 K
R7403	125052711	RES, METAL FILM CHIP 22K(1005)	22 K
R7413	121899081	CONDUCTOR, CHIP (1005)	
R7415	121899081	CONDUCTOR, CHIP (1005)	
R7417	121899081	CONDUCTOR, CHIP (1005)	
R7428	121896981	RES, CHIP 22K (1005)	22 K
R8014	121896581	RES, CHIP 10K (1005)	10 K
R8065	125049511	RES,METAL FILM CHIP 1.0K(1005)	1 K
R8152	121681791	RES, CHIP 470 (1608)	470 O
R8153	121681791	RES, CHIP 470 (1608)	470 O
R8154	121681791	RES, CHIP 470 (1608)	470 O
R8155	121681791	RES, CHIP 470 (1608)	470 O
R8156	121897381	RES, CHIP 47K (1005)	47 K
R8157	125054511	RES,METAL FILM CHIP 120K(1005)	120 K
R8158	125052611	RES, METAL FILM CHIP 20K(1005)	20 K
R8159	121899081	CONDUCTOR, CHIP (1005)	
R8201	121899081	CONDUCTOR, CHIP (1005)	
R8502	121899081	CONDUCTOR, CHIP (1005)	
R8514	121899081	CONDUCTOR, CHIP (1005)	
R8530	121893781	RES, CHIP 47 (1005)	47 O
R8531	121893781	RES, CHIP 47 (1005)	47 O
R8535	121895781	RES, CHIP 2.2K (1005)	2.2 K
R8536	121895781	RES, CHIP 2.2K (1005)	2.2 K
R8542	121895781	RES, CHIP 2.2K (1005)	2.2 K
R8546	121896181	RES, CHIP 4.7K (1005)	4.7 K
R8547	121896181	RES, CHIP 4.7K (1005)	4.7 K
R8552	121899081	CONDUCTOR, CHIP (1005)	
R8555	121899081	CONDUCTOR, CHIP (1005)	
R8570	121893781	RES, CHIP 47 (1005)	47 O
R8571	121893781	RES, CHIP 47 (1005)	47 O
R8572	121893781	RES, CHIP 47 (1005)	47 O
R9102	121894381	RES, CHIP 150 (1005)	150 O
R9106	121899081	CONDUCTOR, CHIP (1005)	
R9110	121899081	CONDUCTOR, CHIP (1005)	
R9112	121899081	CONDUCTOR, CHIP (1005)	
R9121	121897281	RES, CHIP 39K (1005)	39 K
R9122	125050111	RES,METAL FILM CHIP 1.8K(1005)	1.8 K
R9124	125051711	RES,METAL FILM CHIP 8.2K(1005)	8.2 K
R9128	125049911	RES,METAL FILM CHIP 1.5K(1005)	1.5 K
R9130	121899081	CONDUCTOR, CHIP (1005)	
R9131	121899081	CONDUCTOR, CHIP (1005)	

REF. NO.	PART NO.	DESCRIPTION	REMARKS
R9144	121897781	RES, CHIP 100K (1005)	100 K
R9145	121896581	RES, CHIP 10K (1005)	10 K
R9146	121679391	RES, CHIP 4.7 (1608)	4.7 O
R9147	125051711	RES,METAL FILM CHIP 8.2K(1005)	8.2 K
R9148	125051511	RES,METAL FILM CHIP 6.8K(1005)	6.8 K
R9149	125051511	RES,METAL FILM CHIP 6.8K(1005)	6.8 K
R9150	125055311	RES,METAL FILM CHIP 270K(1005)	270 K
R9151	121680191	RES, CHIP 22 (1608)	22 O
R9153	125051911	RES, METAL FILM CHIP 10K(1005)	10 K
R9154	125051911	RES, METAL FILM CHIP 10K(1005)	10 K
R9157	125049511	RES,METAL FILM CHIP 1.0K(1005)	1 K
R9158	120888781	RES, CHIP 1.0K (1005)	1 K
R9159	121899081	CONDUCTOR, CHIP (1005)	
R9160	125049511	RES,METAL FILM CHIP 1.0K(1005)	1 K
R9161	120888781	RES, CHIP 1.0K (1005)	1 K
R9162	121899081	CONDUCTOR, CHIP (1005)	
R9165	121896581	RES, CHIP 10K (1005)	10 K
R9170	121899081	CONDUCTOR, CHIP (1005)	
R9171	121897781	RES, CHIP 100K (1005)	100 K
R9173	125051911	RES, METAL FILM CHIP 10K(1005)	10 K
R9176	125049511	RES,METAL FILM CHIP 1.0K(1005)	1 K
R9177	125060811	RES, METAL FILM CHIP 470(1608)	470 O
R9178	125061611	RES,METAL FILM CHIP 1.0K(1608)	1 K
R9179	125064011	RES, METAL FILM CHIP 10K(1608)	10 K
R9181	121899081	CONDUCTOR, CHIP (1005)	
R9182	121899081	CONDUCTOR, CHIP (1005)	
R9184	125051911	RES, METAL FILM CHIP 10K(1005)	10 K
R9185	121899081	CONDUCTOR, CHIP (1005)	
R9186	125056711	RES, METAL FILM CHIP 1M (1005)	1 M
R9201	121894281	RES, CHIP 120 (1005)	120 O
R9531	121895381	RES, CHIP 1.0K (1005)	1 K
R9532	121895381	RES, CHIP 1.0K (1005)	1 K
R9533	121893781	RES, CHIP 47 (1005)	47 O
R9534	121893781	RES, CHIP 47 (1005)	47 O
R9543	121895381	RES, CHIP 1.0K (1005)	1 K
R9545	121899081	CONDUCTOR, CHIP (1005)	
R9555	121894181	RES, CHIP 100 (1005)	100 O
R9601	121894181	RES, CHIP 100 (1005)	100 O
R9602	121894181	RES, CHIP 100 (1005)	100 O
R9605	121895781	RES, CHIP 2.2K (1005)	2.2 K
R9608	121896581	RES, CHIP 10K (1005)	10 K
R9609	121896181	RES, CHIP 4.7K (1005)	4.7 K
RB1000	123470221	RES, NETWORK 68 (1005X4)	68 O
RB1001	123470221	RES, NETWORK 68 (1005X4)	68 O

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REF. NO.	PART NO.	DESCRIPTION	REMARKS
RB1002	123438021	RES, NETWORK 47K (1005X4)	47 K
RB1002	125754821	RES, NETWORK 47K (1005X4)	47 K
RB1007	123470221	RES, NETWORK 68 (1005X4)	68 O
RB1008	123470221	RES, NETWORK 68 (1005X4)	68 O
RB1009	123437121	RES, NETWORK 47 (1005X4)	47 O
RB4501	123437221	RES, NETWORK 100 (1005X4)	100 O
RB4501	125754421	RES, NETWORK 100 (1005X4)	100 O
RB4503	123438021	RES, NETWORK 47K (1005X4)	47 K
RB4503	125754821	RES, NETWORK 47K (1005X4)	47 K
RB4504	123437921	RES, NETWORK 22K (1005X4)	22 K
RB5001	145753911	COMMON MODE CHOKE COIL	1.7 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
RB5001	146061111	COMMON MODE CHOKE COIL	1.7 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
RB5001	125755921	RES, NETWORK 4.7 (1005X4)	4.7 O (ARGENTINA/BRAZIL/CHILE-PERU/ECUADOR MODELS ONLY)
RB5002	145753911	COMMON MODE CHOKE COIL	1.7 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
RB5002	146061111	COMMON MODE CHOKE COIL	1.7 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
RB5002	125755921	RES, NETWORK 4.7 (1005X4)	4.7 O (ARGENTINA/BRAZIL/CHILE-PERU/ECUADOR MODELS ONLY)
RB5003	145753911	COMMON MODE CHOKE COIL	1.7 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
RB5003	146061111	COMMON MODE CHOKE COIL	1.7 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
RB5003	125755921	RES, NETWORK 4.7 (1005X4)	4.7 O (ARGENTINA/BRAZIL/CHILE-PERU/ECUADOR MODELS ONLY)
RB5004	145753911	COMMON MODE CHOKE COIL	1.7 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
RB5004	146061111	COMMON MODE CHOKE COIL	1.7 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
RB5004	125755921	RES, NETWORK 4.7 (1005X4)	4.7 O (ARGENTINA/BRAZIL/CHILE-PERU/ECUADOR MODELS ONLY)
RB5005	145753911	COMMON MODE CHOKE COIL	1.7 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
RB5005	146061111	COMMON MODE CHOKE COIL	1.7 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
RB5005	125755921	RES, NETWORK 4.7 (1005X4)	4.7 O (ARGENTINA/BRAZIL/CHILE-PERU/ECUADOR MODELS ONLY)
RB5006	145753911	COMMON MODE CHOKE COIL	1.7 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
RB5006	146061111	COMMON MODE CHOKE COIL	1.7 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
RB5006	125755921	RES, NETWORK 4.7 (1005X4)	4.7 O (ARGENTINA/BRAZIL/CHILE-PERU/ECUADOR MODELS ONLY)
RB5007	145753911	COMMON MODE CHOKE COIL	1.7 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
RB5007	146061111	COMMON MODE CHOKE COIL	1.7 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
RB5007	123440021	CONDUCTOR, NETWORK (1005X4)	0.05 O (ARGENTINA/BRAZIL/CHILE-PERU/ECUADOR MODELS ONLY)
RB5008	145753911	COMMON MODE CHOKE COIL	1.7 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
RB5008	146061111	COMMON MODE CHOKE COIL	1.7 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
RB5008	123440021	CONDUCTOR, NETWORK (1005X4)	0.05 O (ARGENTINA/BRAZIL/CHILE-PERU/ECUADOR MODELS ONLY)
RB5009	145753911	COMMON MODE CHOKE COIL	1.7 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
RB5009	146061111	COMMON MODE CHOKE COIL	1.7 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
RB5009	125755921	RES, NETWORK 4.7 (1005X4)	4.7 O (ARGENTINA/BRAZIL/CHILE-PERU/ECUADOR MODELS ONLY)
RB5010	145753911	COMMON MODE CHOKE COIL	1.7 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
RB5010	146061111	COMMON MODE CHOKE COIL	1.7 O (US/CANADA/LATIN AMERICA/MEXICO/COLOMBIA MODELS ONLY)
RB5010	125755921	RES, NETWORK 4.7 (1005X4)	4.7 O (ARGENTINA/BRAZIL/CHILE-PERU/ECUADOR MODELS ONLY)

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RB5012	123440021	CONDUCTOR, NETWORK (1005X4)	0.05 O
RB5012	125757821	CONDUCTOR, NETWORK (1005X4)	O
RB5013	123440021	CONDUCTOR, NETWORK (1005X4)	0.05 O
RB5013	125757821	CONDUCTOR, NETWORK (1005X4)	O
RB5014	123437821	RES, NETWORK 10K (1005X4)	10 K
RB5016	123438021	RES, NETWORK 47K (1005X4)	47 K
RB5016	125754821	RES, NETWORK 47K (1005X4)	47 K
RB5017	123438021	RES, NETWORK 47K (1005X4)	47 K
RB5017	125754821	RES, NETWORK 47K (1005X4)	47 K
RB5018	123438021	RES, NETWORK 47K (1005X4)	47 K
RB5018	125754821	RES, NETWORK 47K (1005X4)	47 K
RB5019	123438021	RES, NETWORK 47K (1005X4)	47 K
RB5019	125754821	RES, NETWORK 47K (1005X4)	47 K
RB5022	123436921	RES, NETWORK 10 (1005X4)	10 O
RB6005	123437121	RES, NETWORK 47 (1005X4)	47 O
RB6006	123437121	RES, NETWORK 47 (1005X4)	47 O
RB6012	123437121	RES, NETWORK 47 (1005X4)	47 O
RB6040	123440021	CONDUCTOR, NETWORK (1005X4)	0.05 O
RB6041	123440021	CONDUCTOR, NETWORK (1005X4)	0.05 O
RB6042	123440021	CONDUCTOR, NETWORK (1005X4)	0.05 O
RB6043	123440021	CONDUCTOR, NETWORK (1005X4)	0.05 O
RB6044	123440021	CONDUCTOR, NETWORK (1005X4)	0.05 O
RB6402	123437121	RES, NETWORK 47 (1005X4)	47 O
RB6403	123472321	RES, NETWORK 75 (1005X4)	75 O
RB6403	125755121	RES, NETWORK 75 (1005X4)	75 O
RB6404	123437121	RES, NETWORK 47 (1005X4)	47 O
RB6406	123437121	RES, NETWORK 47 (1005X4)	47 O
RB6501	123437821	RES, NETWORK 10K (1005X4)	10 K
RB7001	123437621	RES, NETWORK 2.2K (1005X4)	2.2 K
RB7002	123437621	RES, NETWORK 2.2K (1005X4)	2.2 K
RB8501	123437021	RES, NETWORK 22 (1005X4)	22 O
RB8504	123437121	RES, NETWORK 47 (1005X4)	47 O
RB8505	123437121	RES, NETWORK 47 (1005X4)	47 O
RB8517	123437121	RES, NETWORK 47 (1005X4)	47 O
RB8518	123437121	RES, NETWORK 47 (1005X4)	47 O
RB9101	123437821	RES, NETWORK 10K (1005X4)	10 K
RB9601	123437221	RES, NETWORK 100 (1005X4)	100 O
RB9602	125754421	RES, NETWORK 100 (1005X4)	100 O
RB9603	125754421	RES, NETWORK 100 (1005X4)	100 O
T6400	144595511	PULSE TRANSFORMER	
T6400	144598011	PULSE TRANSFORMER	
VD5004	180207811	VARISTOR (SMD)	27 V
VD5004	180209021	VARISTOR, CHIP	27 V
VD5009	180207811	VARISTOR (SMD)	27 V
VD5009	180209021	VARISTOR, CHIP	27 V
VD5013	180207811	VARISTOR (SMD)	27 V
VD5013	180209021	VARISTOR, CHIP	27 V
X6400	181467611	QUARTZ CRYSTAL UNIT(25MHZ)	25 M 20 PPM
X6400	181467711	QUARTZ CRYSTAL UNIT(25MHZ)	25 M 20 PPM
X6501	181475911	QUARTZ CRYSTAL UNIT(12MHZ)	12M 20 PPM
X7301	181447612	QUARTZ CRYSTAL UNIT	32.768 K 20 PPM
X7302	181447111	QUARTZ CRYSTAL UNIT	48 M 20 PPM
X7302	181448511	QUARTZ CRYSTAL UNIT	48 M 15 PPM
X8501	181423811	VIBRATOR, CRYSTAL	41 M 20 PPM
X8501	181447511	QUARTZ CRYSTAL UNIT	41 M 20 PPM

TUS

Component level repair information is not available.

TUNER BOARD, COMPLETE **A-2063-363-B**
(FOR US/CANADA/LATIN AMERICA/MEXICO MODELS ONLY)

TUNER BOARD, COMPLETE **A-1998-232-C**
(FOR ARGENTINA/BRAZIL/ECUADOR/CHILE-PERU MODELS ONLY)

TUNER BOARD, COMPLETE **A-1998-233-C**
(FOR COLOMBIA MODELS ONLY)

H

Component level repair information is not available.

HSC2 BOARD, MOUNTED **A-1969-163-A**
(FOR ALL REGIONS, EXCEPT ARGENTINA)

H BOARD, MOUNTED **A-1993-268-A**
(FOR ARGENTINA MODELS ONLY)

APPENDIX A: ENCRYPTION KEY COMPONENTS

Encryption key components developed by Sony Corporation contain confidential information, and shall be handled under the non-disclosure obligations provided in the applicable agreement with Sony Corporation (and/or its subsidiary).

As part of this agreement specific instructions must be adhered to whenever a Circuit Board containing encryption key components is repaired and/or replaced pursuant to the following:

1. **In the service manual the Circuit Boards containing encryption key components shall be identified with a red outline and a .**
2. **Only repair boards or components listed in the service manual shall be utilized for replacement and/or repair.**
3. **Disassembly, decryption, or reverse-engineering components is strictly prohibited.**
4. **Any board in which the Servicer replaces an encryption key component must be placed back into the set it orignally came from and the replaced defective component MUST BE DESTROYED. Boards cannot be swapped.**
5. **If a Circuit Board identified with a red outline and a in the service manual is deemed to be defective:**
   a. **and if a core charge is imposed and is covered under the product warranty, the defective un-repaired or modified board MUST BE RETURNED to Sony.**
   b. **and if the core charge is NOT covered under the product warranty, the defective un-repaired or modified board MUST BE DESTROYED.**
6. **If a unit is destroyed (such as field scrap), the Circuit Board identified with a red outline and a in the service manual MUST BE DESTROYED.**

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Sony Corporation
Sony LCSC
Technical Services
Service Publication Department

English
2012CJ74WEB-1
Printed in USA
© 2015.2

9-883-559-51