

AURA STUDIO 3

SKU:
HKAURAS3BLKAS, HKAURAS3BLKBR, HKAURAS3BLKCN, HKAURAS3BLKEU, HKAURAS3BLKIN,
HKAURAS3BLKBSAR, HKAURAS3BLKBSEU, HKAURAS3BLKBGL, HKAURAS3BLKBSJN, HKAURAS3BLKBSSP,
HKAURAS3BLKAM, HKAURAS3WHTCN, HKAURAS3WHTCN, HKAURAS3WHTAM, HKAURAS3BNGCN,
HKAURAS3BNGAM



CONTENTS

Technical Specifications	2
Safety Instruction, Warning & Notes	3
Trouble Shooting	6
Dismantling Instruction	9
Set Block Diagram	15
Schematic & Layout Diagrams	17
Set Mechanical Exploded View	38
Packaging Exploded View	39
Spare Parts List	40
Revision List	42

TECHNICAL SPECIFICATIONS

- AC power input: 100–240V ~ 50/60Hz
- DC power input: 24V
- Standby power consumption: <0.5W
- Speaker drivers: 1 woofer + 2 tweeter
- Speaker impedance: 6 ohm for tweeter, 2 ohm for woofer
- Total output power: 130W
- Frequency response: 20 Hz – 20 KHz
- Signal-to-noise (S/N) ratio: 80 dBA
- Input sensitivity:
BT in: -12dFS for tweeter, -14dBFS for woofer
AUX in: 250mV for tweeter, 200mV for woofer
- Bluetooth version: 4.2
- Bluetooth profile: A2DP, AVRCP
- Bluetooth transmitter frequency range: 2402–2480MHz
- Bluetooth maximum transmitter power: 2dBm (EIRP)
- Dimensions : (L × W × H): 17.13mm×13.02mm×2mm

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, or the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped.
15. Do not expose this apparatus to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the apparatus.
16. To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from the AC receptacle.
17. The mains plug of the power supply cord shall remain readily operable.
18. Do not expose batteries to excessive heat such as sunshine, fire or the like.



CAUTION

RISK OF ELECTRIC SHOCK. DO NOT OPEN.



THE LIGHTNING FLASH WITH AN ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.



THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE PRODUCT.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

For Products That Transmit and Receive RF Energy:

FCC Regulations (USA Only)

FCC Information For Users

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference; and (2) this device must accept any interference received, including interference that may cause undesired operation.

Radio and Television Interference

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and then on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Increase the separation between the equipment and receiver.
- Connect the equipment to a different outlet so that the equipment and receiver are on different branch circuits.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE: Changes or modifications not expressly approved by Harman could void the user's authority to operate the equipment.

IC Statement and Warning (Canada Only)

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

For Canadian Model

This Class B digital apparatus complies with Canadian ICES-003.

Modèle pour les Canadiens

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

For Products with Radio Receivers That Can Use an External Antenna:

CATV or Antenna Grounding

If an outside antenna or cable system is connected to this product, be certain that it is grounded so as to provide some protection against voltage surges and static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes and requirements of the grounding electrode.

Note to CATV System Installer:

This reminder is provided to call the CATV (cable TV) system installer's attention to article 820-40 of the NEC, which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as possible.

For CD/DVD/Blu-ray Disc™ Players:

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT
CLASSE 1 PRODUIT LASER

Caution:

This product uses a laser system. To prevent direct exposure to the laser beam, do not open the cabinet enclosure or defeat any of the safety mechanisms provided for your protection. DO NOT STARE INTO THE LASER BEAM. To ensure proper use of this product, please read the owner's manual carefully and retain it for future use. Should the unit require maintenance or repair, please contact your local Harman Kardon service center. Refer servicing to qualified personnel only.

For Products That Include Batteries:



Instructions for Users on Removal and Disposal of Used Batteries.

CAUTION

Risk of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

Alkaline batteries are considered nonhazardous. Rechargeable batteries (i.e., nickel cadmium, nickel metal-hydride, lithium and lithium-ion) are considered hazardous household materials and may pose an unnecessary health and safety risk.

In the European Union and other locations, it is illegal to dispose of any battery with household trash. All batteries must be disposed of in an environmentally sound manner. Contact your local waste management officials for information regarding the environmentally sound collection, recycling and disposal of used batteries.

To remove the batteries from your equipment or remote control, reverse the procedure described for inserting batteries in the owner's manual.

For products with a built-in battery that lasts for the lifetime of the product, removal may not be possible for the user. In this case, recycling or recovery centers handle the dismantling of the product and the removal of the battery. If, for any reason, it becomes necessary to replace such a battery, this procedure must be performed by authorized service centers.

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field effect transistors and semiconductor "chip" components.

The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge build-up or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charge sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material.)
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

CAUTION : Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES devices.

PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing.

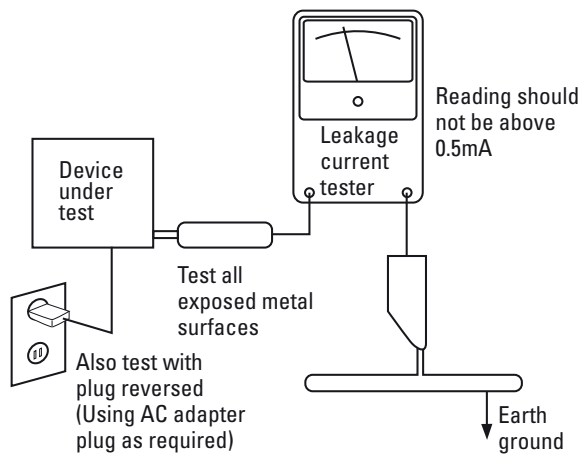
Components identified with the IEC symbol  in the parts list are of special significance to safety. When replacing a component identified with , use only the replacement parts designated, or parts with the same ratings or resistance, wattage, or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

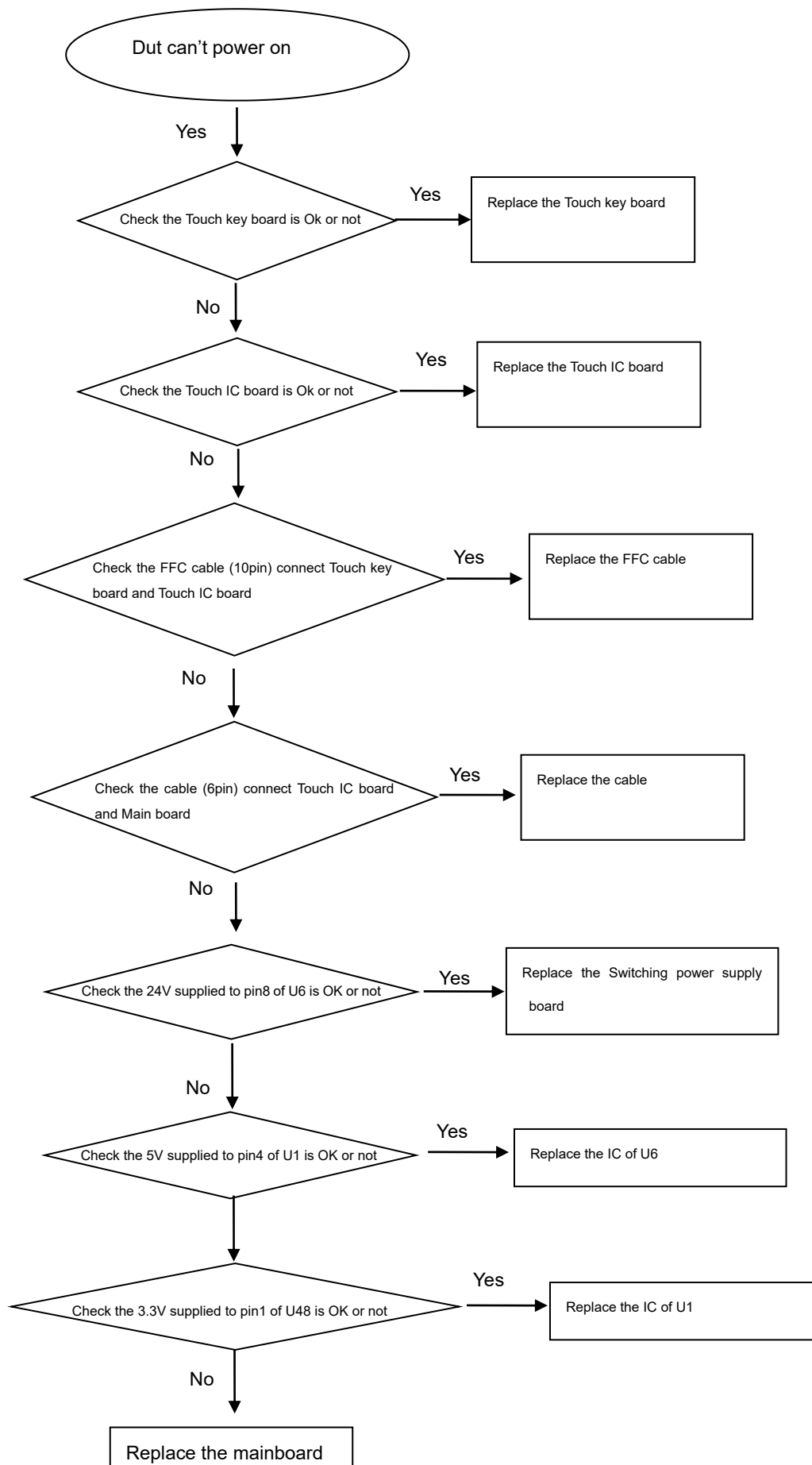
LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.

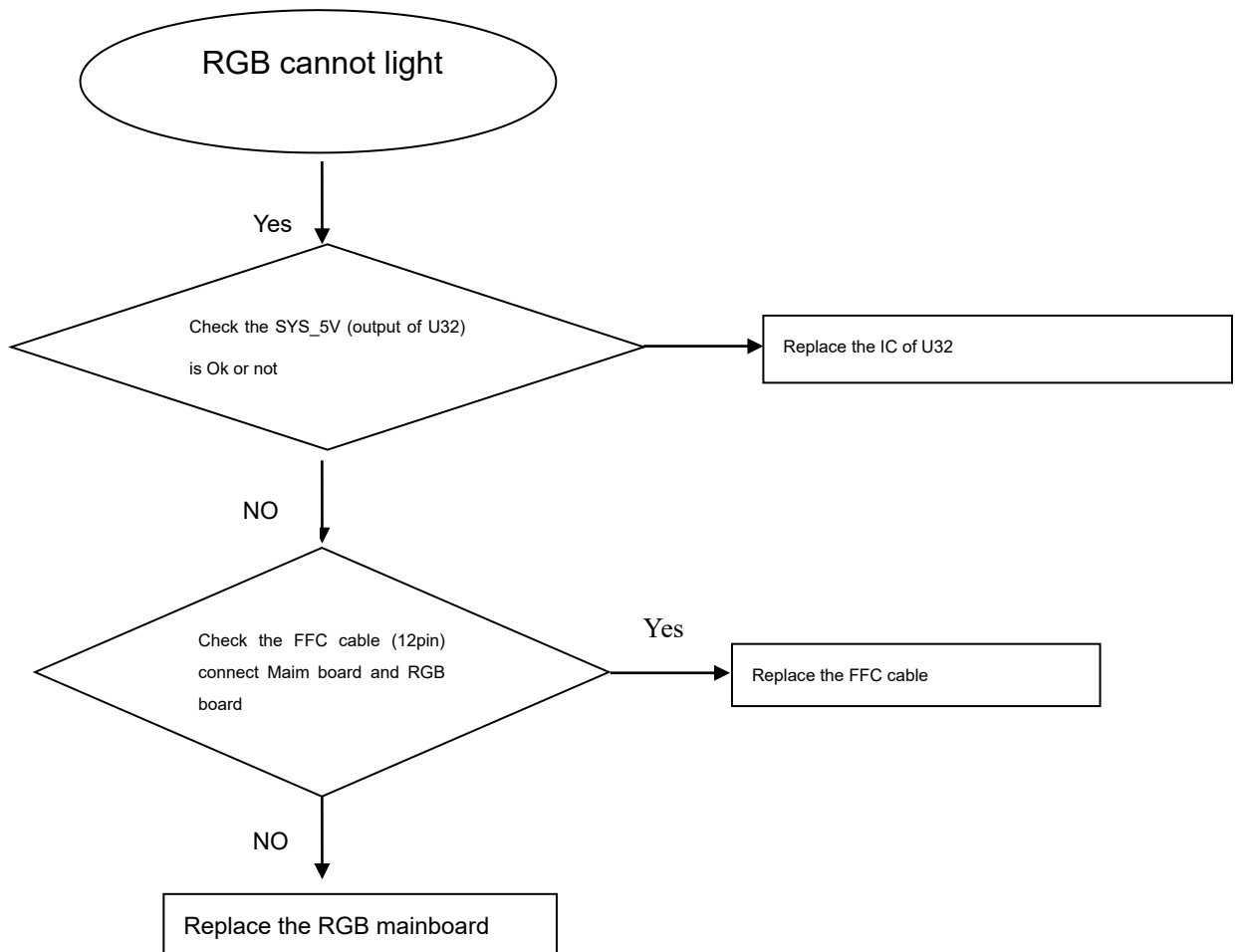


AC Leakage Test

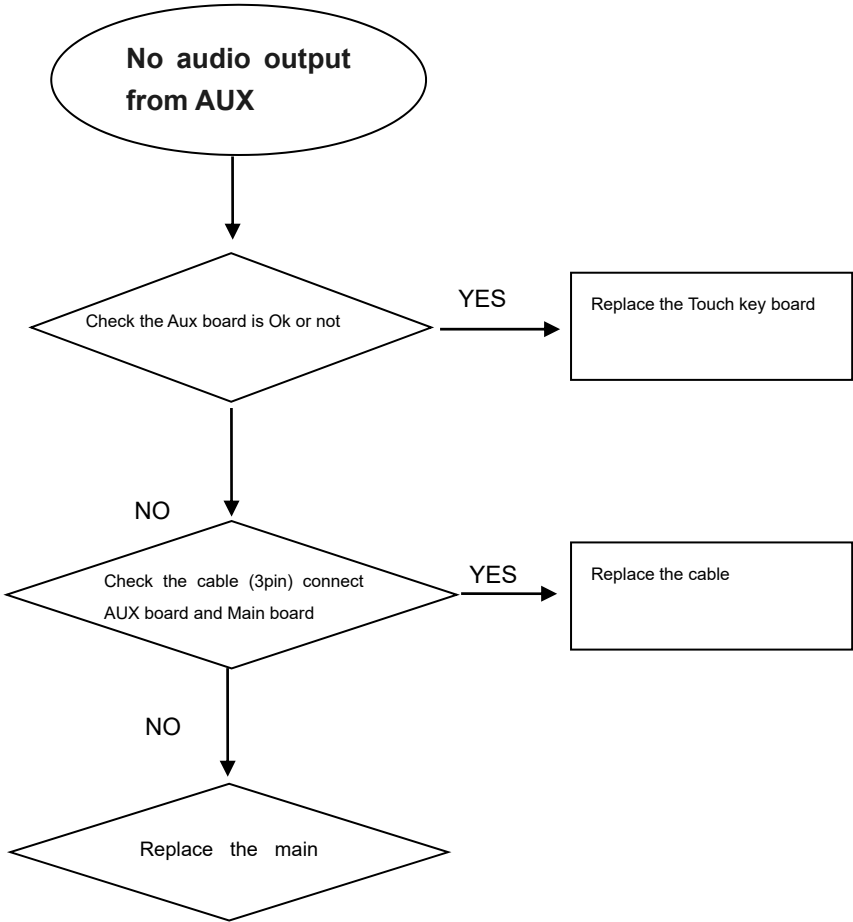
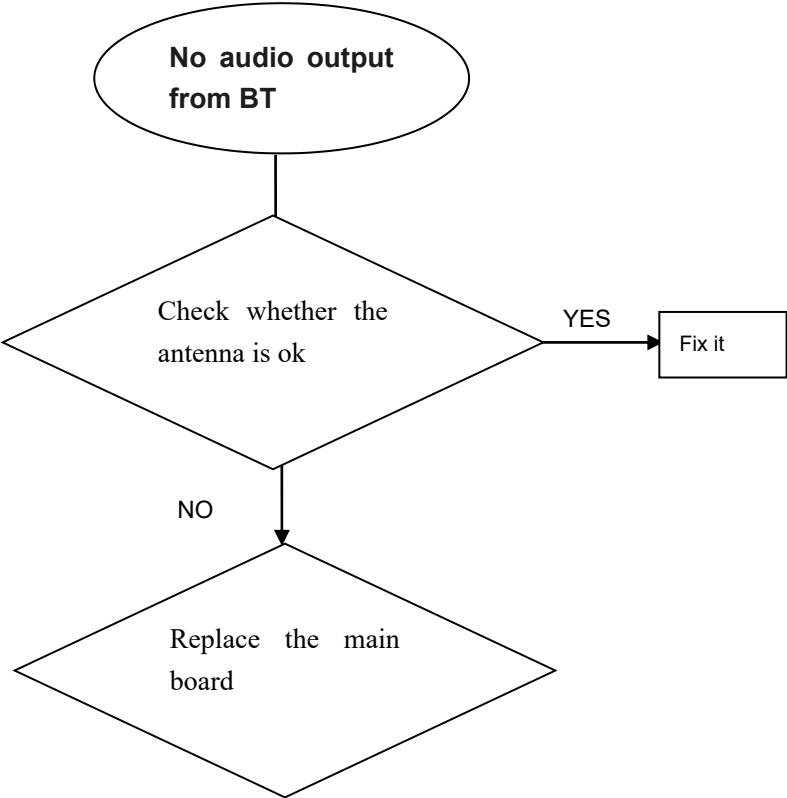
ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

1. Dut can't power on

2、RGB cannot light



3、No audio output

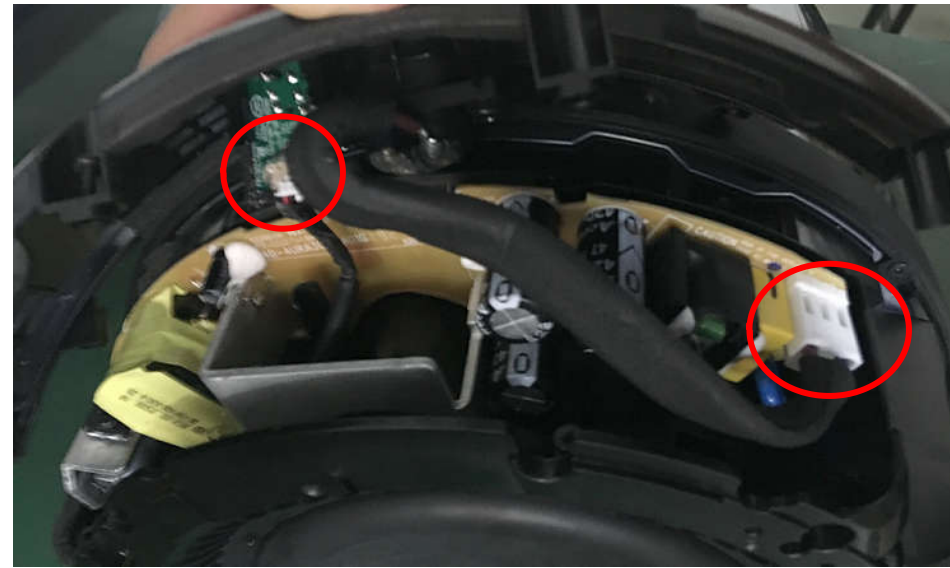


Dismantling Instruction

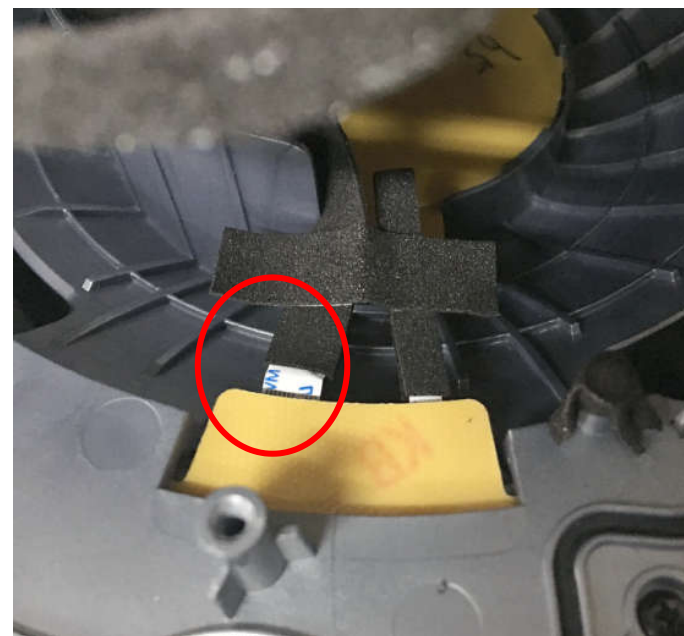
1. Remove the rubber seat and foot pads from the bottom, and remove 3pcs screws, then take off Grille Assembly.



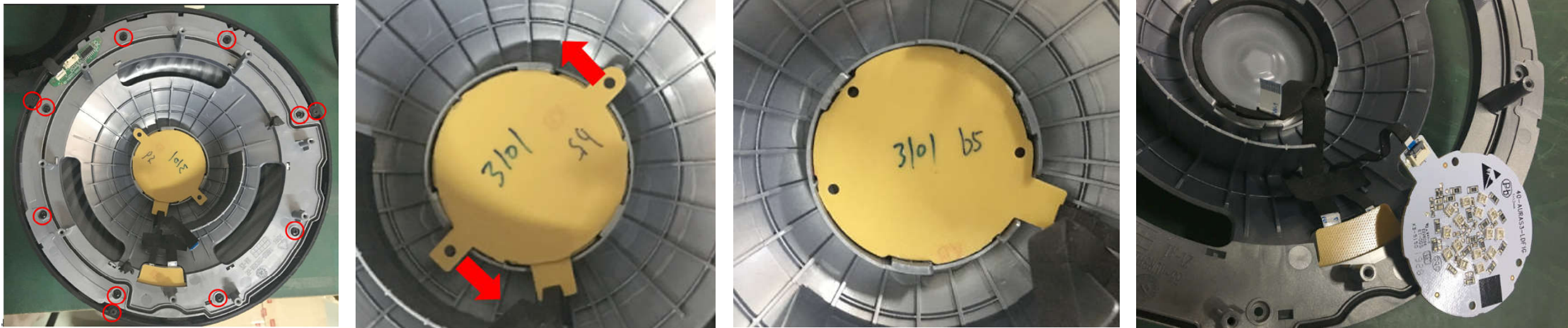
2. Remove 4pcs screws of the AC input assembly, take off the AC input assembly carefully and then disconnect the two cables as below, and then can completely remove the assembly.



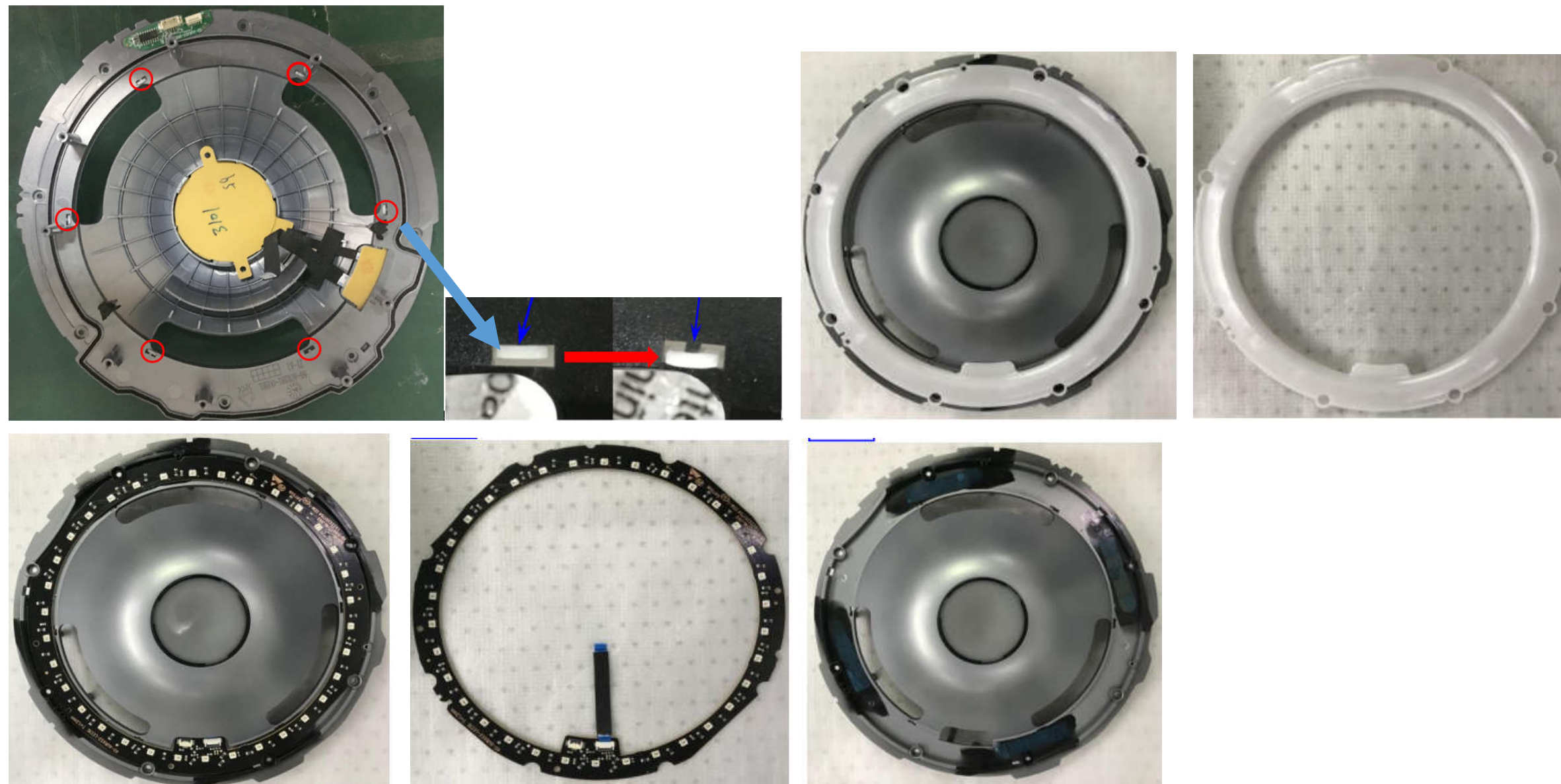
3. Remove the 9pcs screws from the bottom and take off the bottom part carefully, and disconnect two cables as below, and then can completely remove the bottom part.



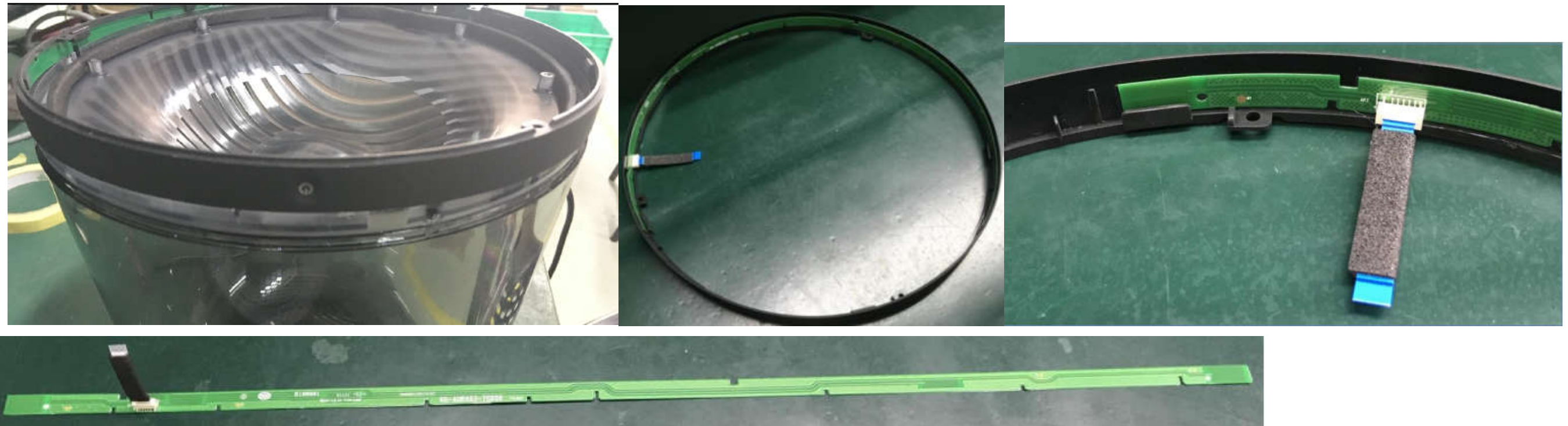
4. Remove the 11pcs screws from the middle shell bracket assembly, rotate the cover board and take off the board, then take off the middle LED board.



5. Remove the 6pcs plastic clips on the middle shell bracket assembly, and take off the light board guide,



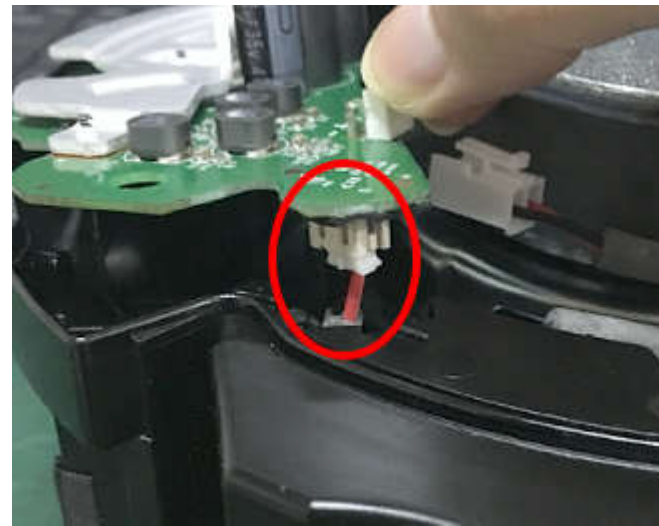
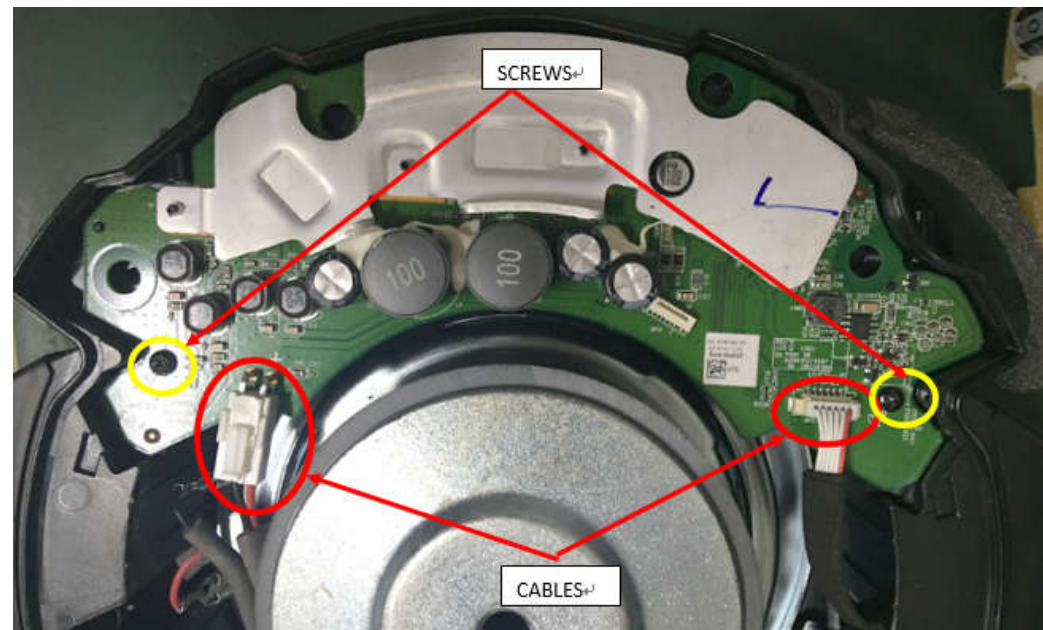
6. Remove the decorative ring from the transparent housing assembly, then take off the touch board.



7. Pull the USB board from the bottom and disconnect the cable, pull and take off the power board from the bottom carefully (be careful about the dupont needle).



8. Remove the 2pcs cables and 2pcs screws from the main board, uplift the main board slowly and disconnect the cables from the bottom of the main board, then take off the board.



9. Remove the 6pcs screws from the Left speaker assembly, and take off the Left speaker assembly.



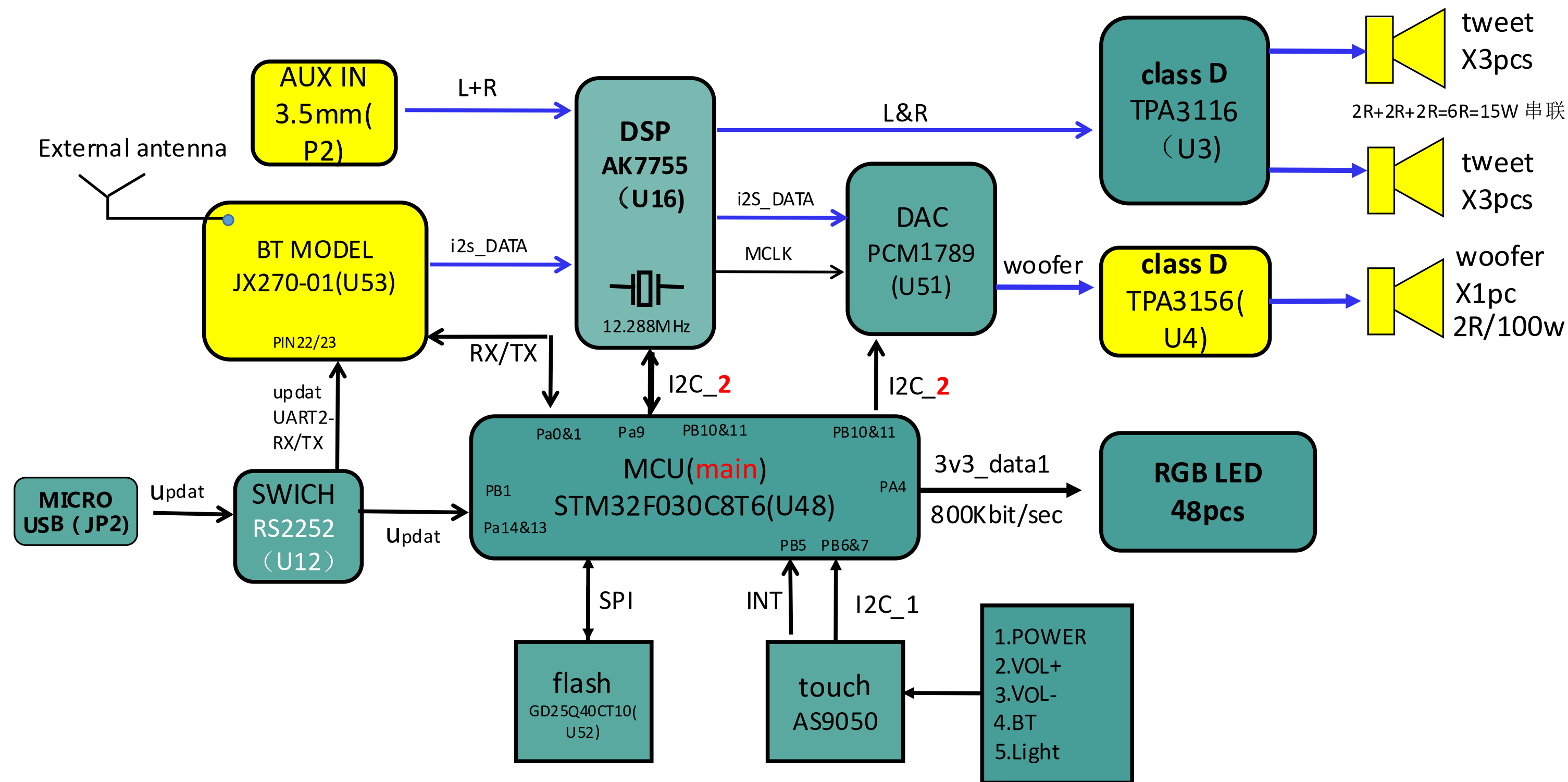
10. Remove the 6pcs screws from the Right speaker assembly, and take off the Right speaker assembly.



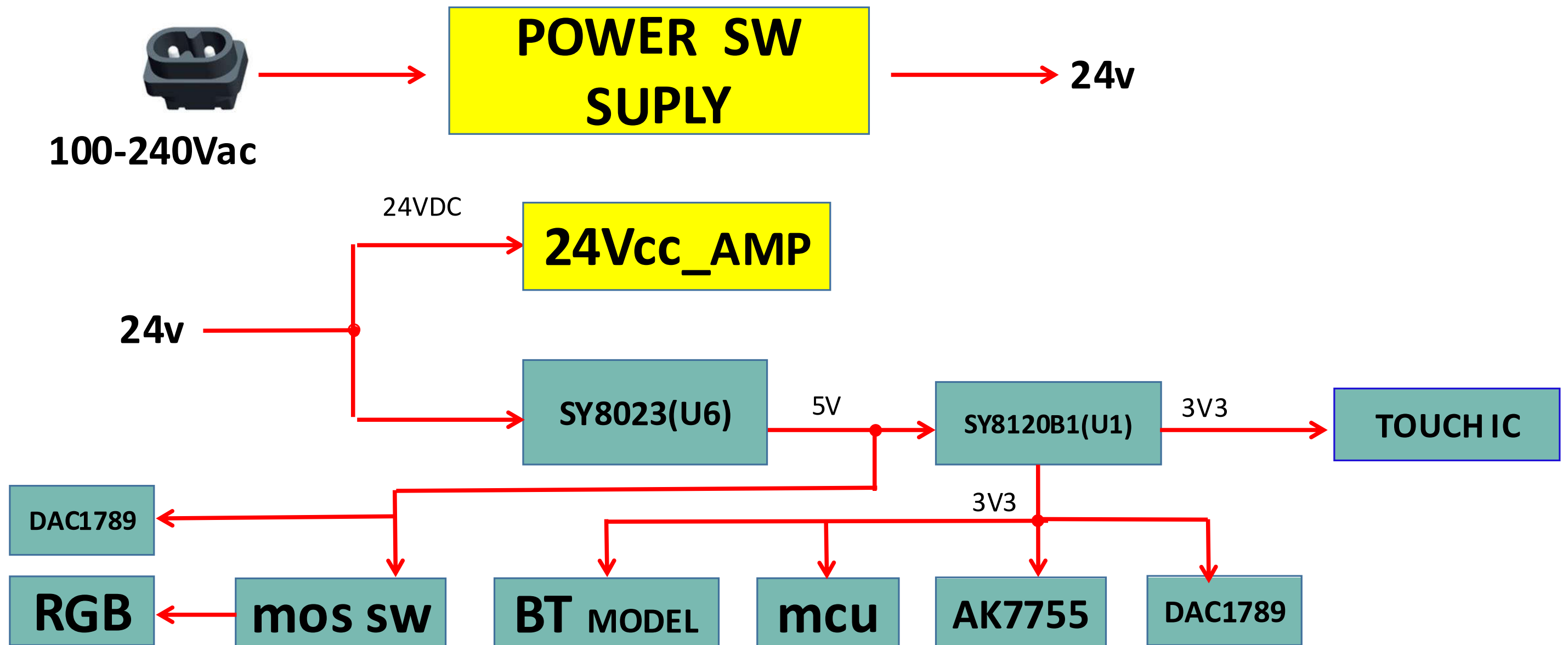
11. Remove the 4pcs screws from the 5.25" speaker unit, and take off the speaker.



HK AURA STUDIO 3 BLOCK DIAGRAM

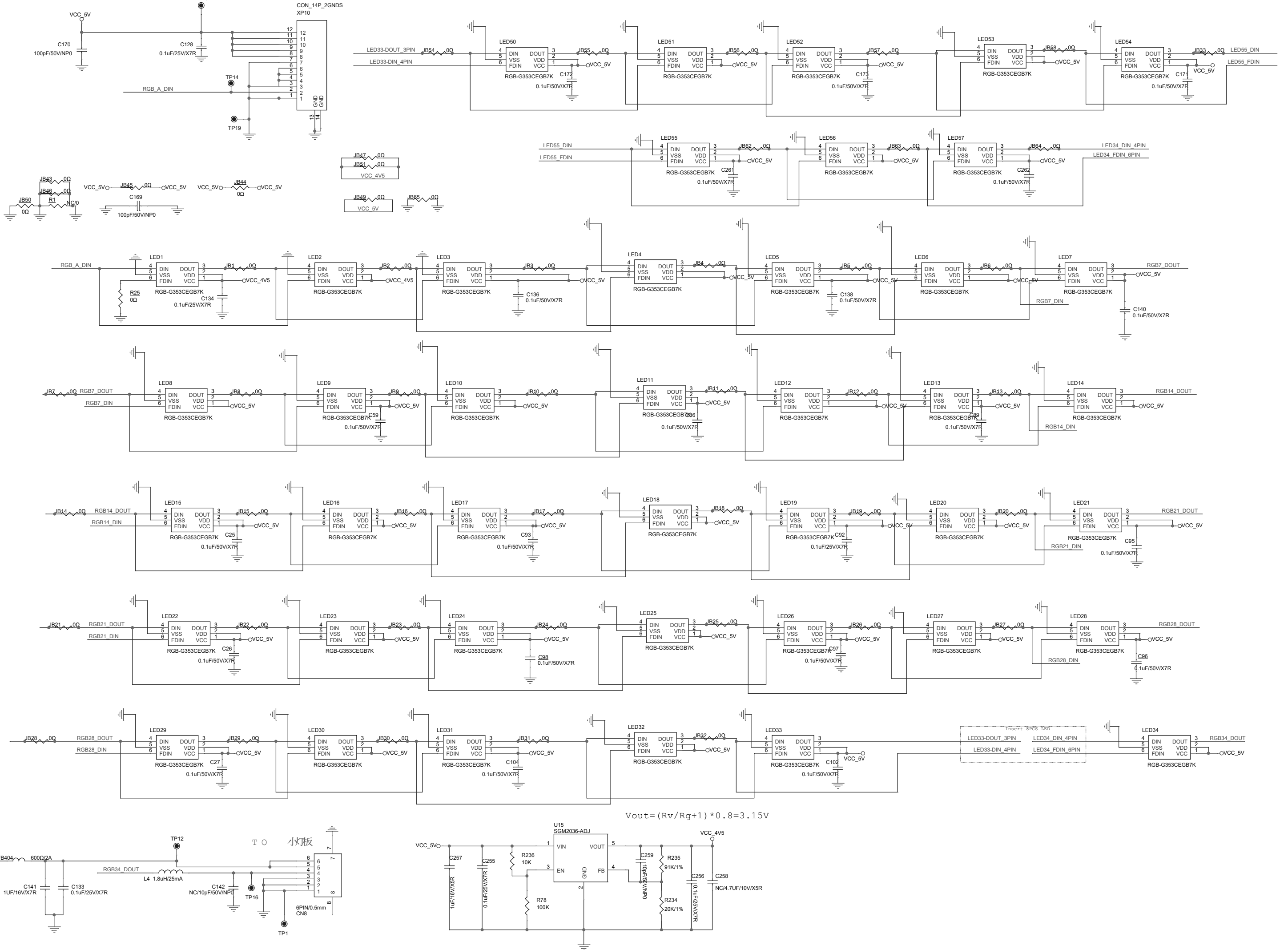


HK AURA STUDIO 3 BLOCK DIAGRAM

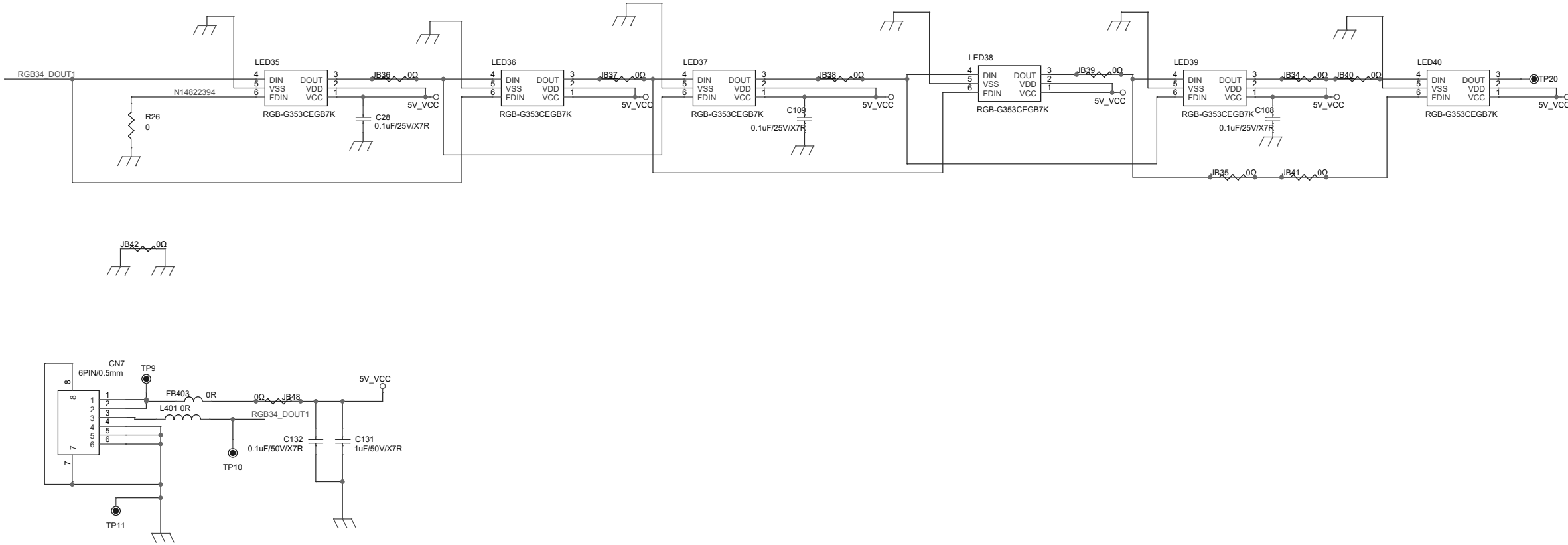


Schematic & Layout Diagrams -- Drive board 01-AURAS3-DR400

Schematic & Layout Diagrams -- LED board 01-AURAS3-LE-LD-LF601



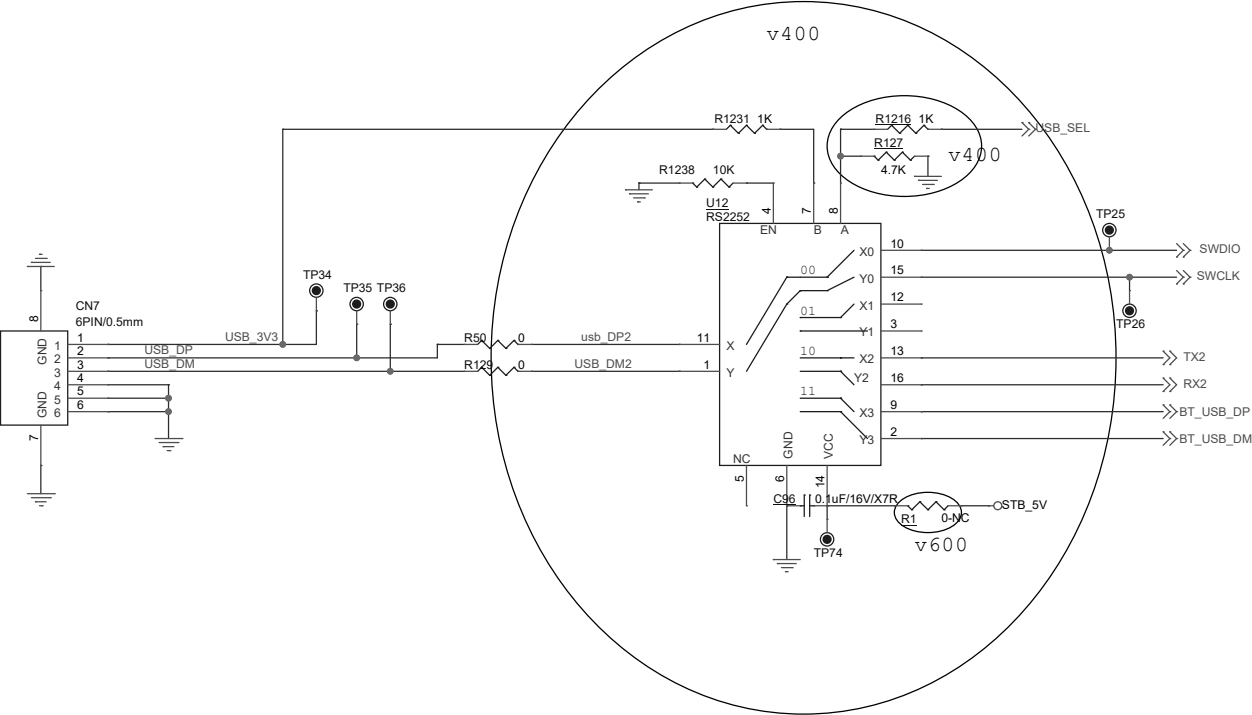
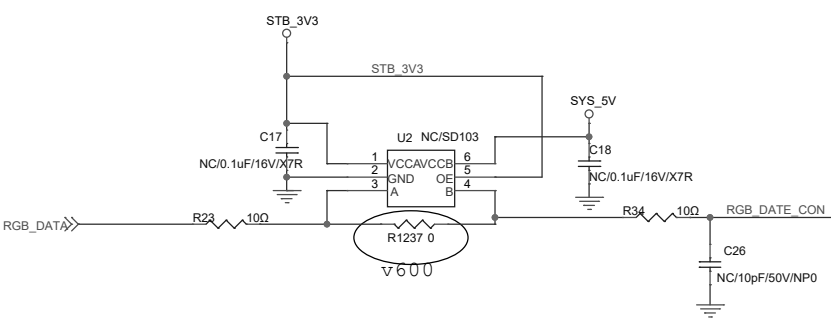
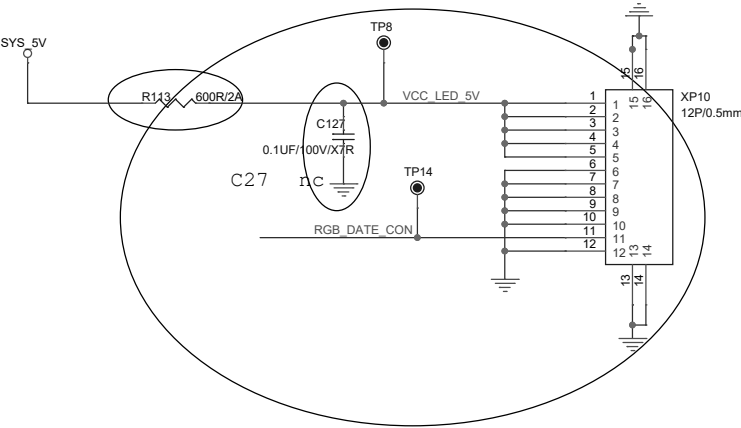
Schematic & Layout Diagrams -- LED board 01-AURAS3-LE-LD-LF601



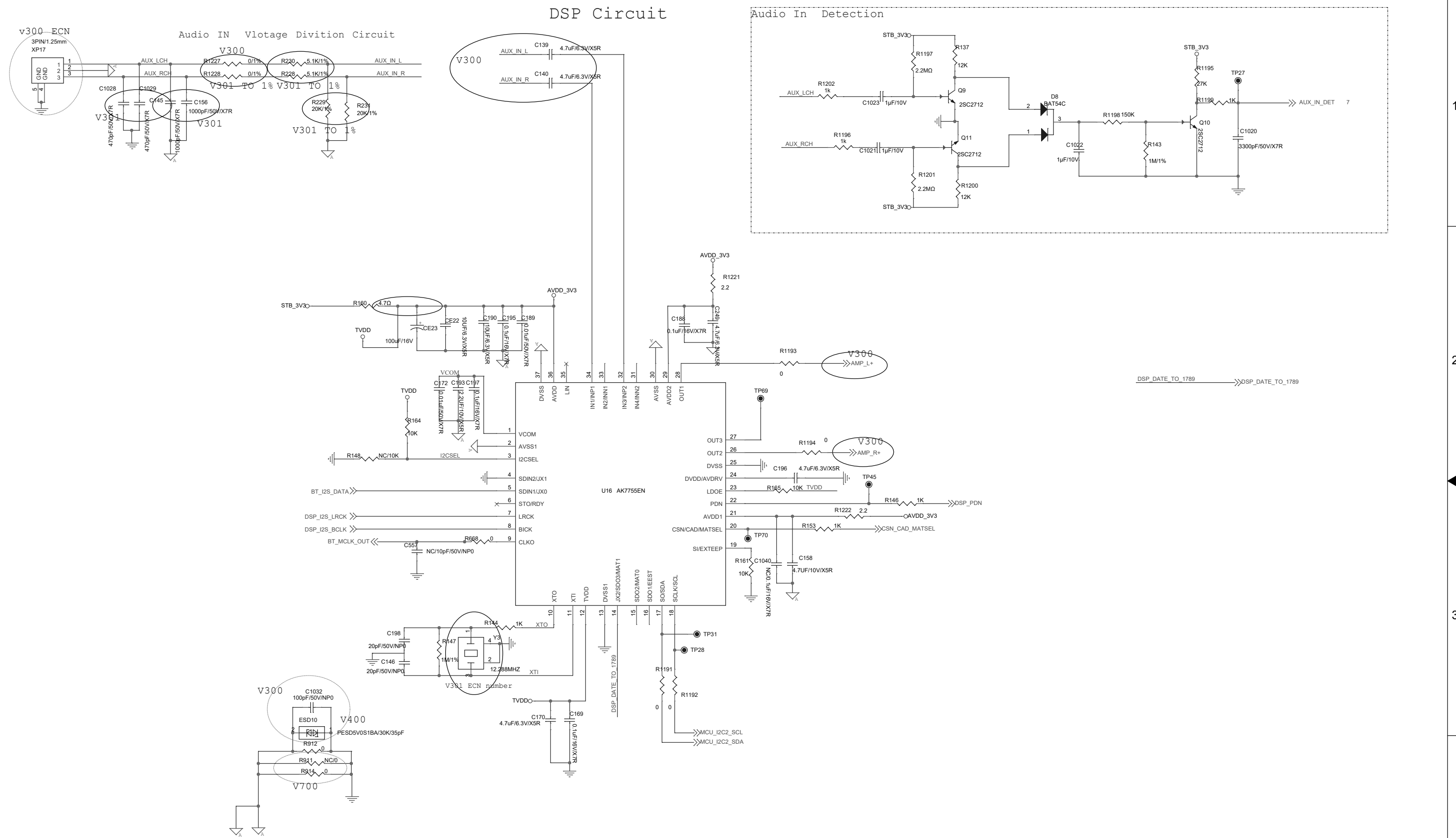
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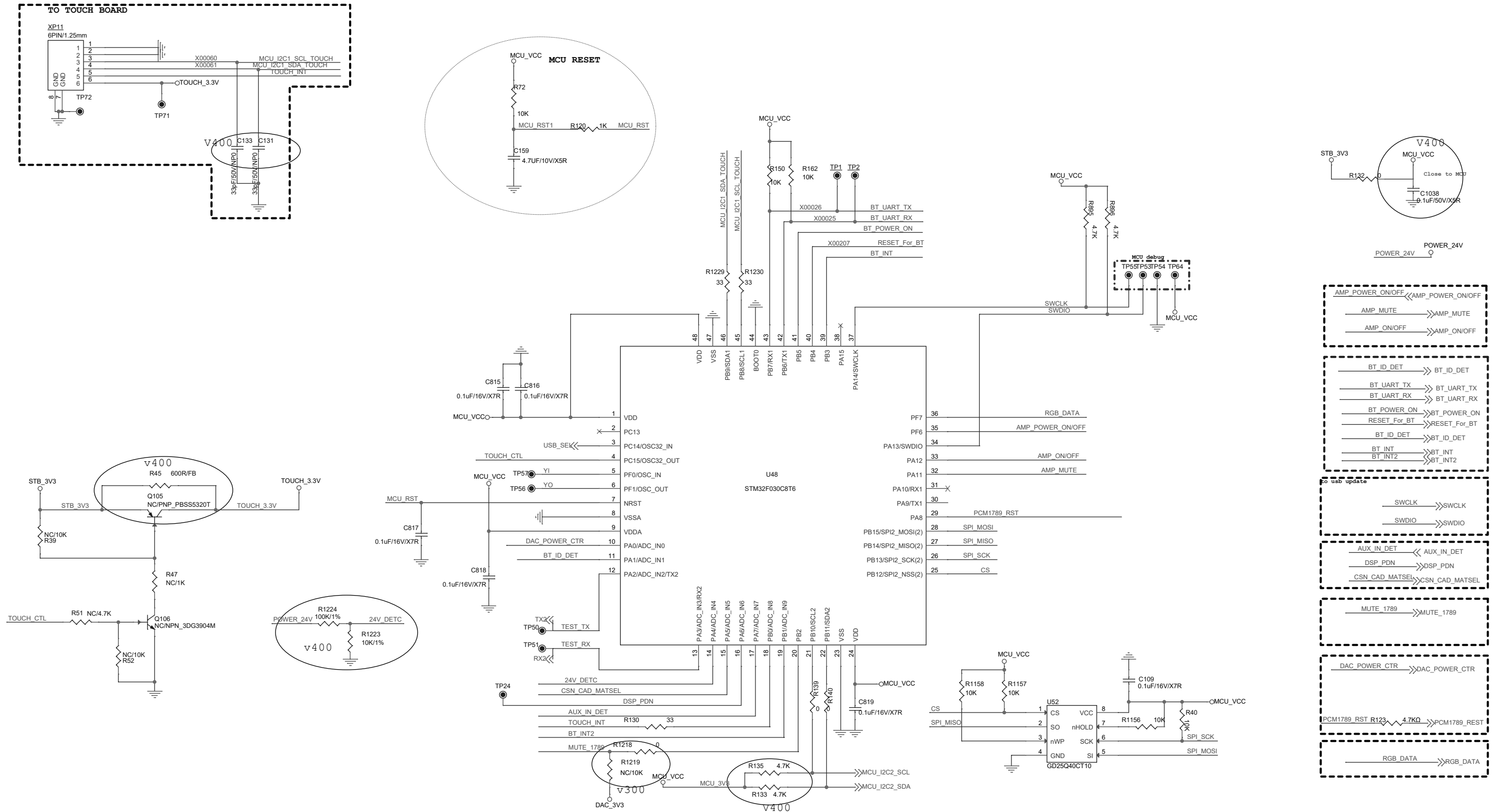
Schematic & Layout Diagrams -- Main board 01-AURAS3-MA-US-AU600



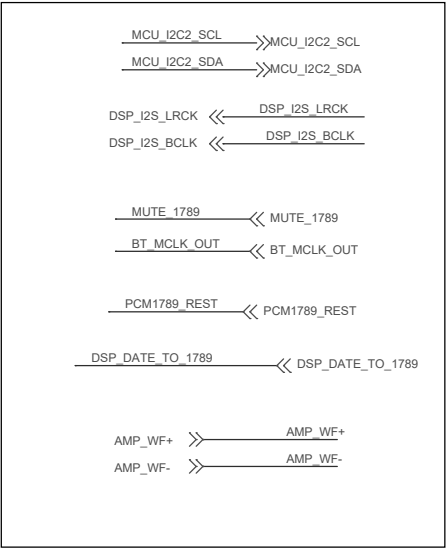
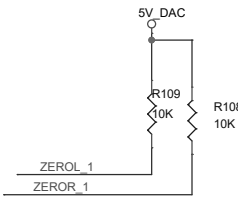
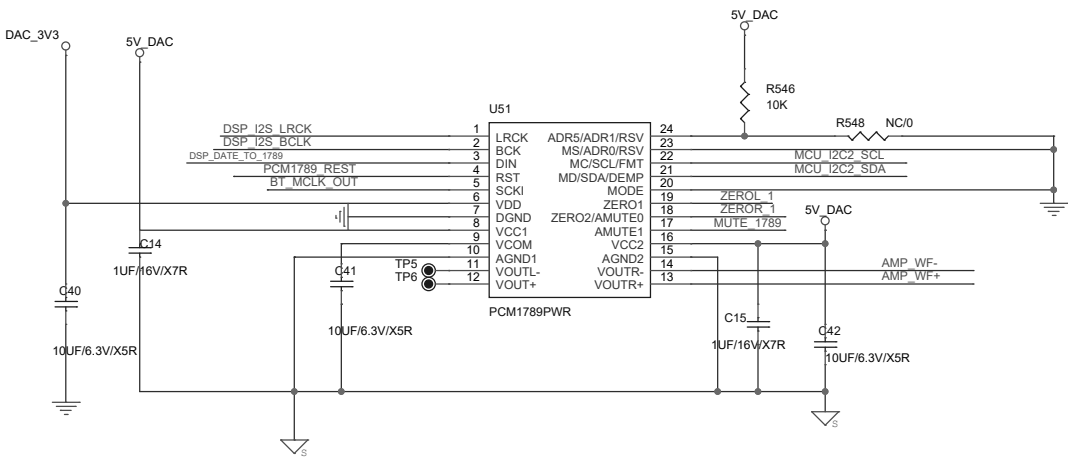
Schematic & Layout Diagrams -- Main board 01-AURAS3-MA-US-AU600



Schematic & Layout Diagrams -- Main board 01-AURAS3-MA-US-AU600



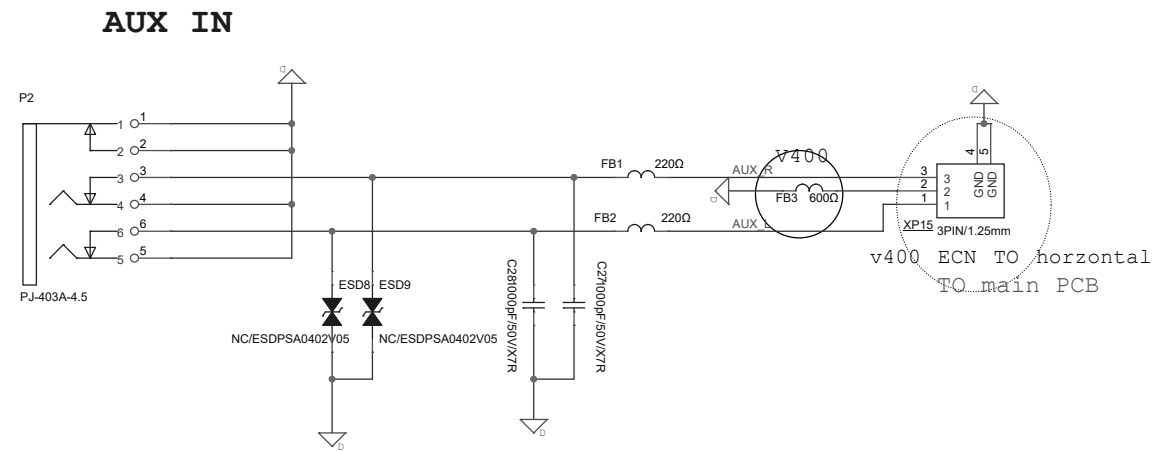
Schematic & Layout Diagrams -- Main board 01-AURAS3-MA-US-AU600



Schematic & Layout Diagrams -- Main board 01-AURAS3-MA-US-AU600

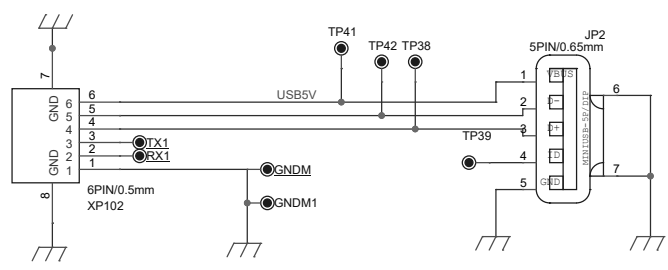


Schematic & Layout Diagrams -- AUX in board 01-AURAS3-MA-US-AU600

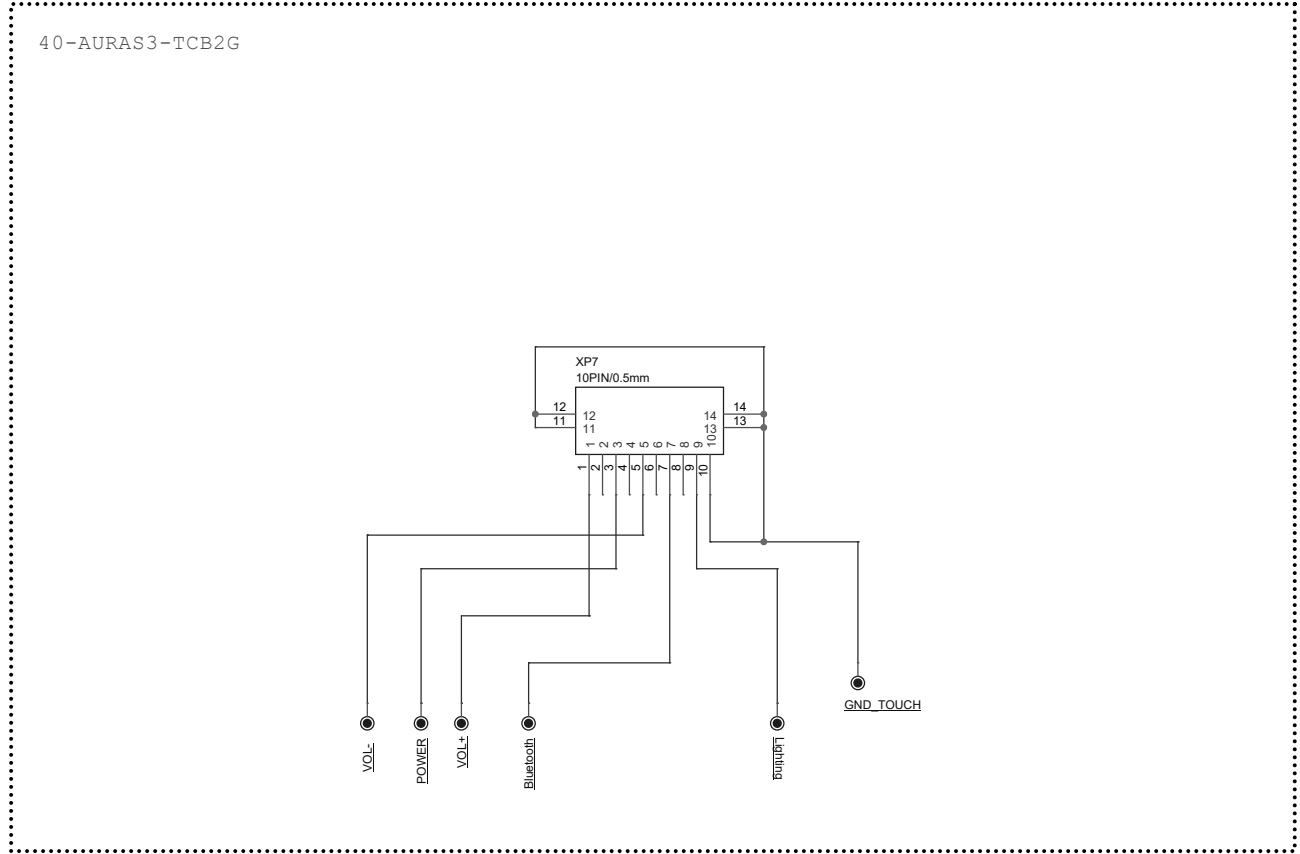


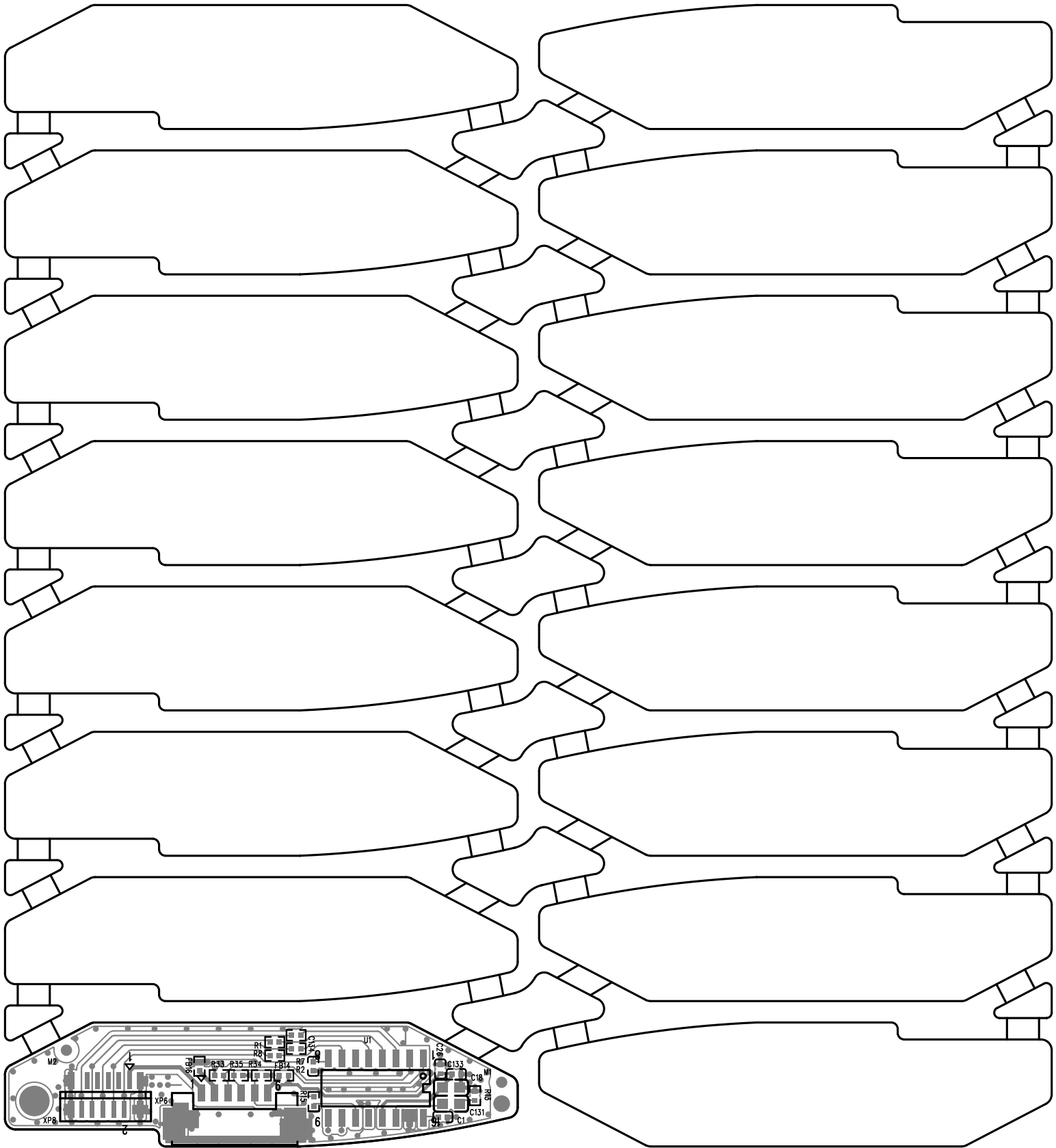
MICRO USB BOARD

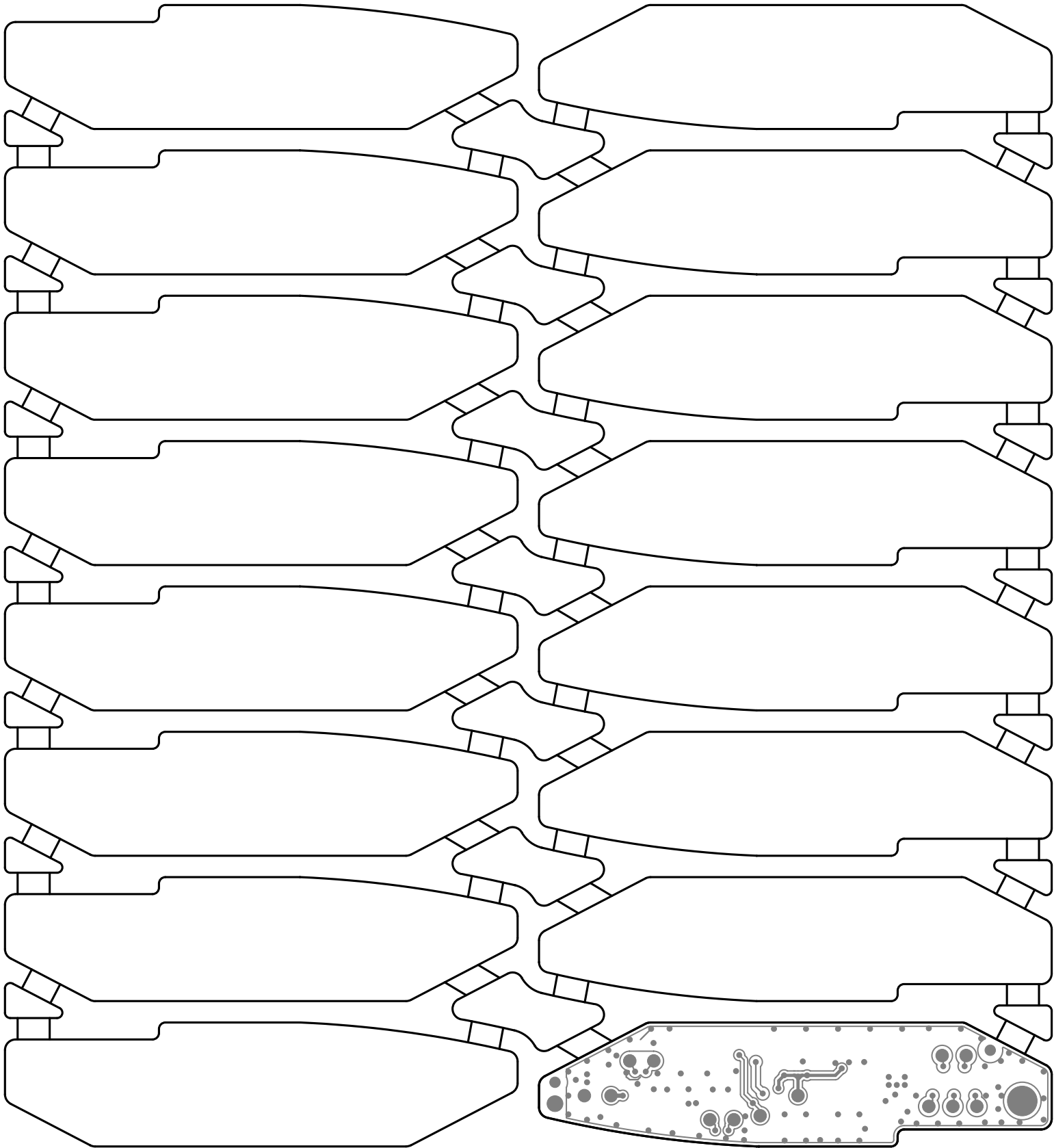
47-USB057-XX0

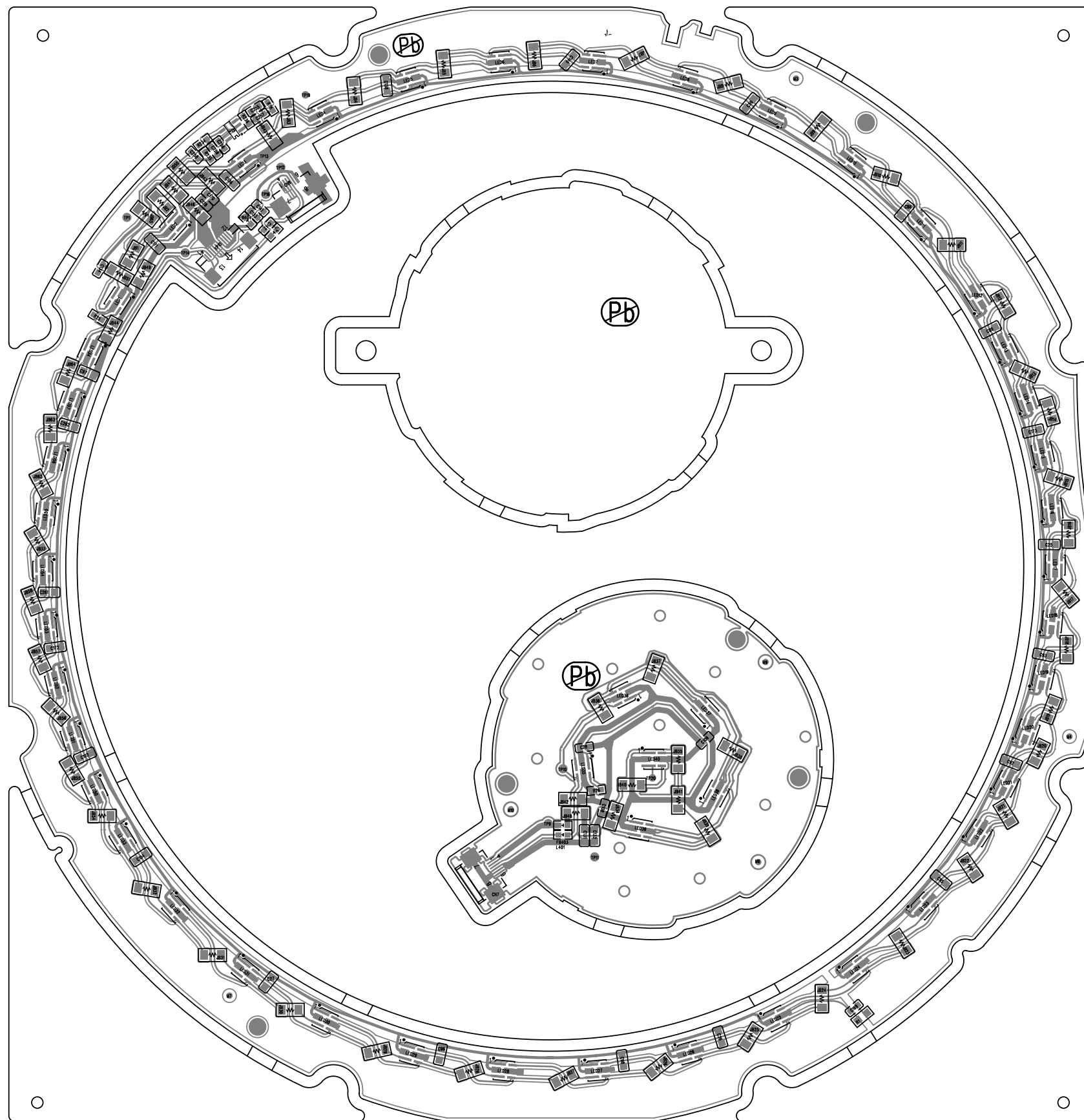


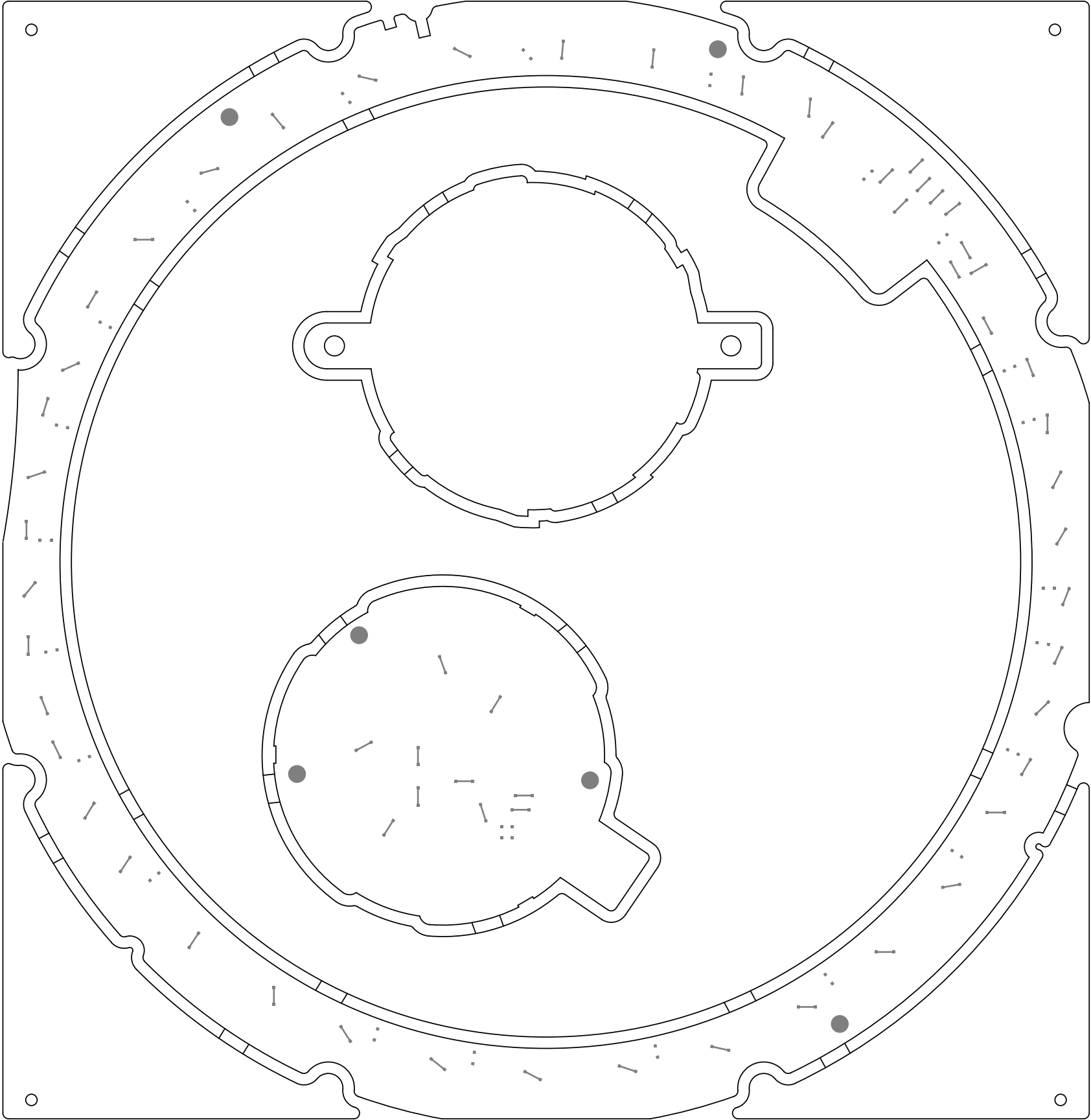
Schematic & Layout Diagrams -- Touch Board 01-AURAS3-TC300





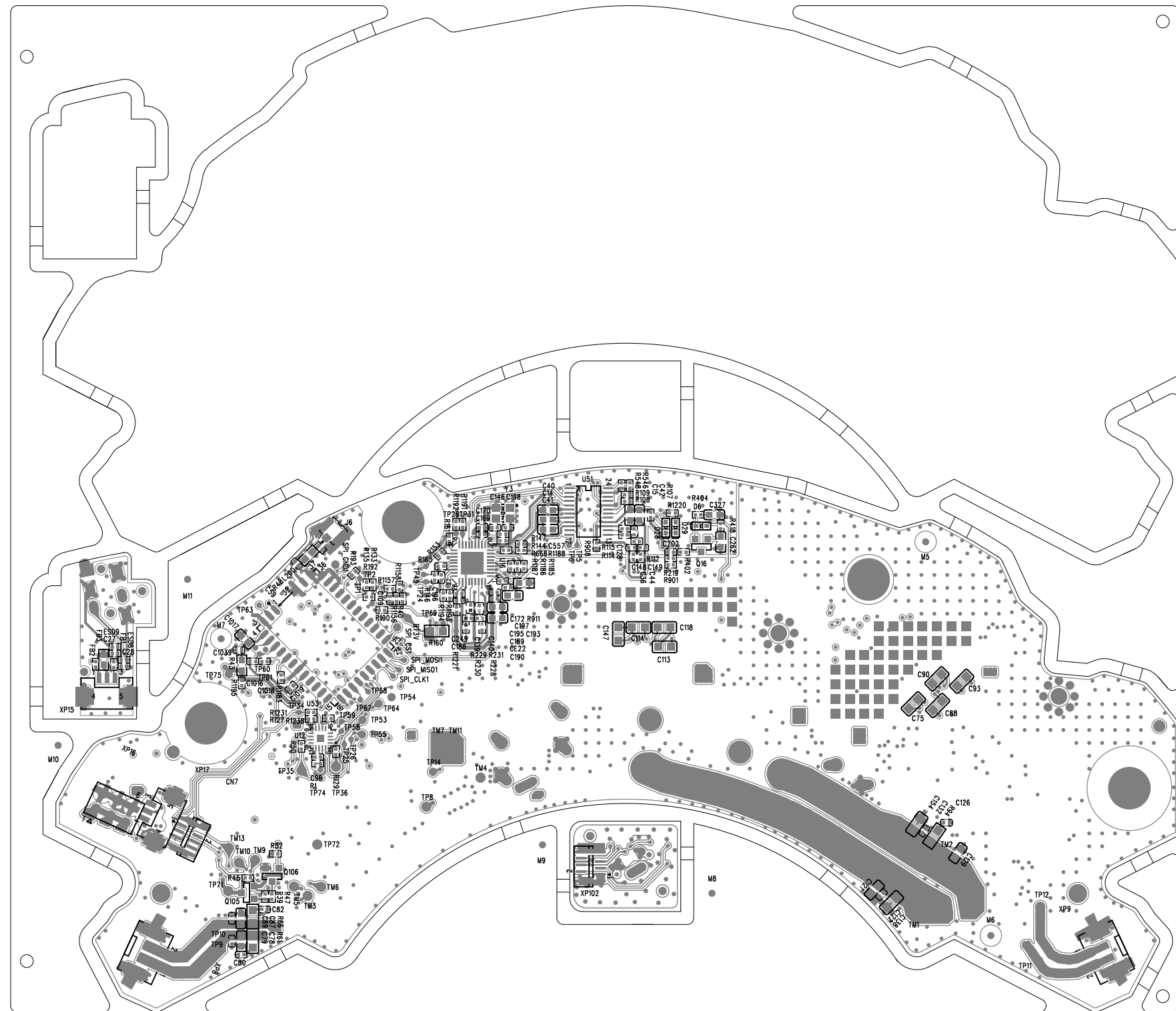








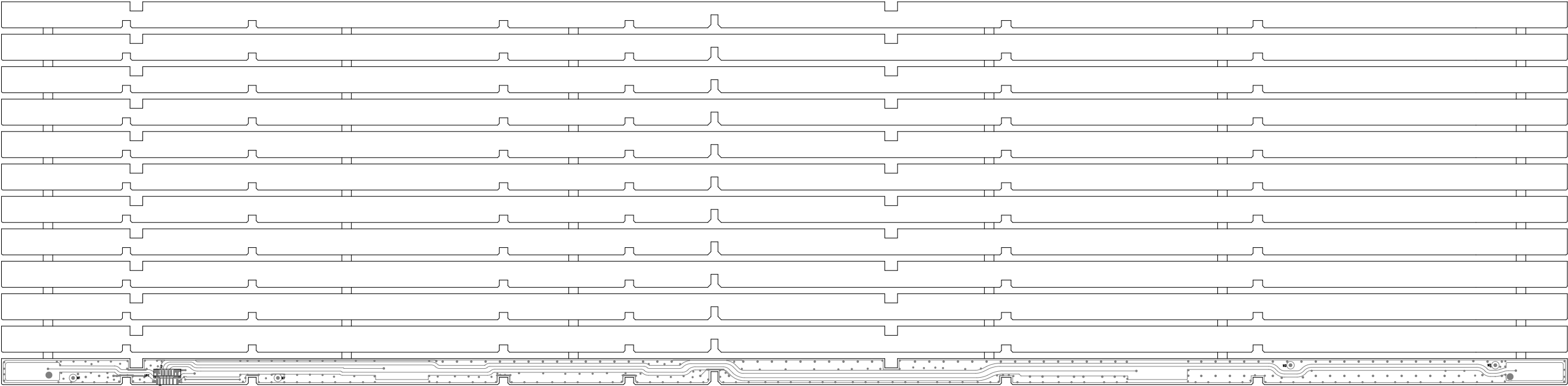
0-AURAS3-MA&US&AUF4G.f



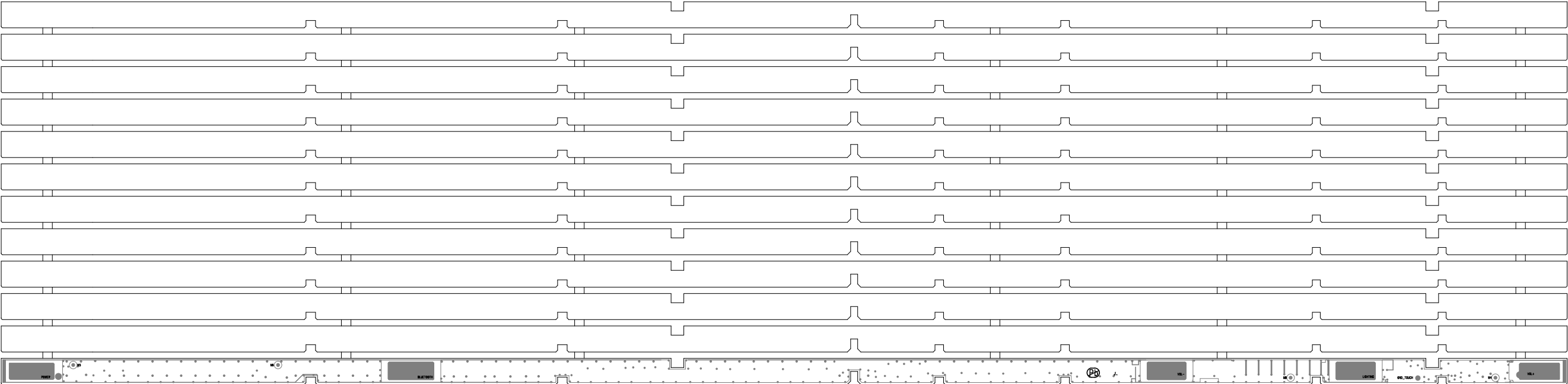
L4 BOTTOM



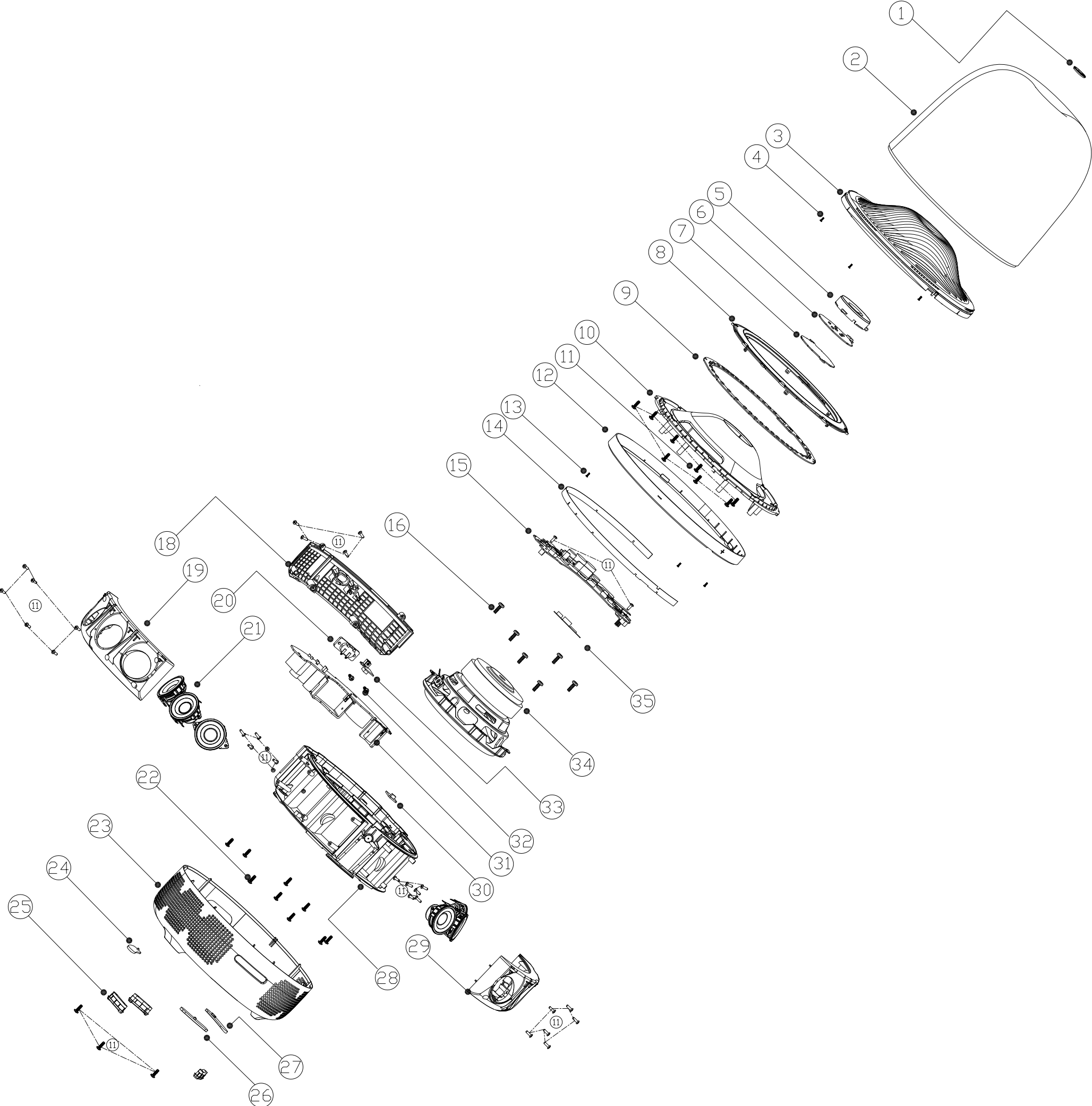
⊕



⊕



Set Mechanical Exploded View



Packing Exploded View

Product part

④ Paper Holder-Top

⑥ PE Bag

The handle assembly
is mounted on the
color box,

⑨

⑧

Internal
paper card

⑦

IPC instructions is
placed on the side of
the upper paper support

⑩

③

Paper Holder-Bottom

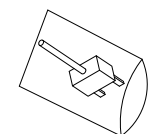
A

B

C

D

IPC wire is placed in A position
2PC wire is placed in A, B position
3PC wire is placed in A, B, C position
4PC wire is placed in A, B, C, D position



The Wire

⑤

⑬

The outer box is loaded into
the color box packed by 2PCS,
and a flat card is placed on
the top and down.

Outcarton box flat card

⑫

The 2PCS gift box is
placed side by side and
loaded into the carton

Gift box packed in PE bag

PE bag of
gift box

⑪

Gift Box

HK AURA STUDIO 3 SPARE PARTS LIST V1.2

Pos. No.	Part Number	Description	UoM	Usage
1+2+3	08-AUR3T1-001S	TRANSPARENT HOUSING ASSY BLK AURASTUDIO3	EA	1
1+2+3	940205-008808	TRANSPARENT HOUSING ASSY WHT AURASTUDIO3	EA	1
5+10	08-AUR3H1-XX0B1S	MIDDLE SHELL BRAKET ASSY BLK AURASTUDIO3	EA	1
5+10	940205-008806	MIDDLE SHELL BRAKET ASSY WHT AURASTUDIO3	EA	1
6	08-AURAS3-LD0	LDB BOARD BLK AURASTUDIO3	EA	1
6	940205-008801	LDB BOARD WHT AURASTUDIO3	EA	1
7	08-AURAS3-LF0	LEF BOARD AURASTUDIO3	EA	1
8	08-AUR3F1-0HAB1S	BIG LIGHT BOARD GUIDE AURASTUDIO3	EA	1
9	08-AURAS3-LE0	LED BOARD BLK AURASTUDIO3	EA	1
9	940205-008802	LED BOARD WHT AURASTUDIO3	EA	1
12	08-AUR3W1-0HAB1S	DECORATIVE RING BLK AURASTUDIO3	EA	1
12	940205-008810	DECORATIVE RING WHT AURASTUDIO3	EA	1
14	08-AURAS3-TU0	TOUCH BOARD AURASTUDIO3	EA	1
15	08-AURAS3-MA0	MAIN BOARD BLK AURASTUDIO3	EA	1
15	940205-008803	MAIN BOARD WHT AURASTUDIO3	EA	1
18	08-AUR3U1-XX0B1S	PROTECTIVE SHELL ASSY BLK AURASTUDIO3	EA	1
18	940205-008809	PROTECTIVE SHELL ASSY WHT AURASTUDIO3	EA	1
19	08-AUR3L1-XX0S	LEFT SPEAKER AURASTUDIO3	EA	1
20	47-PWS073-XX0-A	AC SOCKET AURASTUDIO3	EA	1
21	08-011003-02004	1.5 INCH SPEAKER UNIT AURASTUDIO3	EA	6
23	08-AUR3G1-001S	GRILLE ASSY BLK AURASTUDIO3	EA	1
23	940205-008805	GRILLE ASSY WHT AURASTUDIO3	EA	1
24	59-334790-000B1	RUBBER FOOT 3 BLK AURASTUDIO3	EA	1
24	590103-000111	RUBBER FOOT 3 WHT AURASTUDIO3	EA	1
25	59-334830-000B1	FOOT PADS BLK AURASTUDIO3	EA	3
25	590103-000114	FOOT PADS WHT AURASTUDIO3	EA	3
26	59-334780-000B2	RUBBER FOOT 2 BLK AURASTUDIO3	EA	1
26	590103-000109	RUBBER FOOT 2 WHT AURASTUDIO3	EA	1
27	59-334770-000B1	RUBBER FOOT 1 BLK AURASTUDIO3	EA	1
27	590103-000107	RUBBER FOOT 1 WHT AURASTUDIO3	EA	1
28	08-AUR3M1-XX0B1S	MAIN HOUSING ASSY BLK AURASTUDIO3	EA	1
28	940205-008807	MAIN HOUSING ASSY WHT AURASTUDIO3	EA	1
29	08-AUR3R1-XX0S	RIGHT SPEAKER AURASTUDIO3	EA	1
30	08-AURAS3-US0	USB BOARD AURASTUDIO3	EA	1
31	08-AURAS3-PW0	POWER BOARD NON EU AURASTUDIO3	EA	1
31	940205-008804	POWER BOARD EU AURASTUDIO3	EA	1
33	08-AURAS3-AU0	AUX BOARD AURASTUDIO3	EA	1
34	08-055100-02002	5.25 INCH SPEAKER BLK AURASTUDIO3	EA	1
34	420100-000412	5.25 INCH SPEAKER WHT AURASTUDIO3	EA	1
35	08-AURAS3-DR0	TU DRIVE BOARD AURASTUDIO3	EA	1
	54-147770-000B1	BLACK HANDLE BUCKLE PAD AURASTUDIO3	EA	1
	54-147780-000B1	BLACK HANDLE AURASTUDIO3	EA	1
	46-KL014T-03XT	CABLE 3P 3.96MM 140MM AURASTUDIO3	EA	1
	76-334860-0ATB2	CARTON BOX AURASTUDIO3	EA	1
	46-LL006T-01XP	SPEAKER WIRE 1P 60MM AURASTUDIO3	EA	4
	25-DFF470-M1X	CAPACITOR 47UF/50V AURASTUDIO3	EA	2

	46-FL020T-02XF	SPEAKER WIRE L=80/200MM EVA AURASTUDIO3	EA	2
	46-KL008T-02XF	SPEAKER WIRE L=80MM EVA AURASTUDIO3	EA	1
	46-KF010C-12AUF	FFC CABLE 12P 0.5MM 100MM AURASTUDIO3	EA	1
	47-ANT442-XX0	BT ANTENNA BLK 115MM 1.13MM AURASTUDIO3	EA	1
	46-FF004C-10AUF	FFC CABLE 10P 0.5MM 40MM AURASTUDIO3	EA	1
	46-FF008C-06AUF	FFC CABLE 6P 0.5MM 80MM EVA AURASTUDIO3	EA	2
	76-334850-0ATB6	GIFT BOX BLK AS AURASTUDIO3	EA	1
	76-334850-0ATB8	GIFT BOX BLK BR AURASTUDIO3	EA	1
	76-334850-0ATE3	GIFT BOX BLK CN AURASTUDIO3	EA	1
	760101-000449	GIFT BOX WHT CN AURASTUDIO3	EA	1
	76-334850-0ATB4	GIFT BOX BLK EMEA AURASTUDIO3	EA	1
	760101-000447	GIFT BOX WHT EMEA AURASTUDIO3	EA	1
	76-334850-0ATB9	GIFT BOX BLK INDIA AURASTUDIO3	EA	1
	76-334850-0ATC4	GIFT BOX BLK BS ARGENTINA AURASTUDIO3	EA	1
	76-334850-0ATC3	GIFT BOX BLK BS EMEA AURASTUDIO3	EA	1
	76-334850-0ATC2	GIFT BOX BLK BS GLOBAL AURASTUDIO3	EA	1
	76-334850-0ATC5	GIFT BOX BLK BS JN AURASTUDIO3	EA	1
	76-334850-0ATC1	GIFT BOX BLK BS SPRINT AURASTUDIO3	EA	1
	76-334850-0ATC6	GIFT BOX BLK US AURASTUDIO3	EA	1
	760101-000448	GIFT BOX WHT US AURASTUDIO3	EA	1
	46-NN023T-06XF	CABLE 6P 1.25MM 230MM EVA AURASTUDIO3	EA	1
	51-B81500-WLR08-A	POWER CORD 1.5M US(UL) BLK AURASTUDIO3	EA	1
	510101-000062	POWER CORD 1.5M US(UL) WHT AURASTUDIO3	EA	1
	51-D71500-0AR08-A	POWER CORD 1.5M UK AURASTUDIO3	EA	1
	51-D71500-1DR08-A	POWER CORD 1.5M THAILAND AURASTUDIO3	EA	1
	51-D71500-1PR08-A	POWER CORD 1.5M AU AURASTUDIO3	EA	1
	51-D71500-1QR08-A	POWER CORD 1.5M ARGENTINA AURASTUDIO3	EA	1
	51-D71500-2CR08-A	POWER CORD 1.5M EU(VDE) BLK AURASTUDIO3	EA	1
	510102-000072	POWER CORD 1.5M EU(VDE) WHT AURASTUDIO3	EA	1
	51-R70150-2RR08-A	POWER CORD 1.5M JN AURASTUDIO3	EA	1
	510100-000032	POWER CORD 1.5M BLK CN AURASTUDIO3	EA	1
	510100-000033	POWER CORD 1.5M WHT CN AURASTUDIO3	EA	1
	74-050041-60GB1	PE BAG AURASTUDIO3	EA	1
	72-AURA3H-QSGB4	QSG AURASTUDIO3	EA	1
	70-AURA3H-WARB1	WARRANTY CARD AURASTUDIO3	EA	1
	70-AURA3H-SAFB2	SAFETY CARD AURASTUDIO3	EA	1
	51-G71500-2GR08-A	POWER CORD 1.5M CN AURASTUDIO3	EA	1
	76-334880-0AP	PROTECT TRAY TOP AURASTUDIO3	EA	1
	76-334890-0AP	PROTECT TRAY BOTTOM AURASTUDIO3	EA	1
	76-334870-0AP	PAPER CARD FOR GIFT BOX AURASTUDIO3	EA	1
	410100-000303	ST LINK CABLE AURASTUDIO3	EA	1
	410100-000304	USB UART CABLE AURASTUDIO3	EA	1

Remark:

: means newly added item.

XXXX : red text means updated.

REVISION LIST

Version 1.0

- * Initial release. 2019-10

Version 1.1

- * Add some accessories and packaging parts in parts list. 2021-03

Version 1.2

- * Update previous descriptions due to white version added, add more mechanical, electrical and packaging parts for white SKUs in parts list. 2022-06