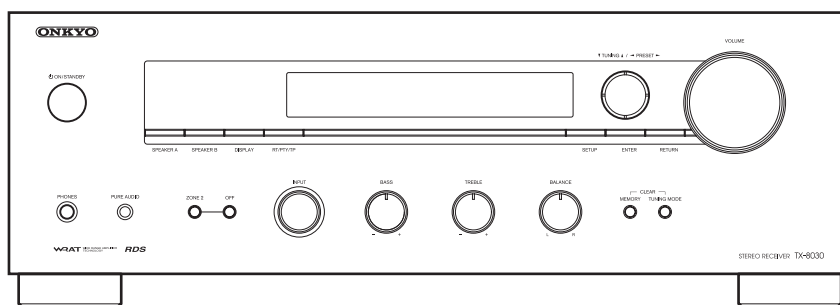


ONKYO® SERVICE MANUAL

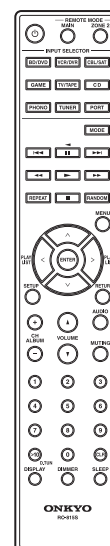
Ref. No. 4271
042011

RECEIVER MODEL TX-8030(B)/(S)



Black and Silver models

B MPP	230V AC, 50Hz
S MPP	230V AC, 50Hz



RC-815S

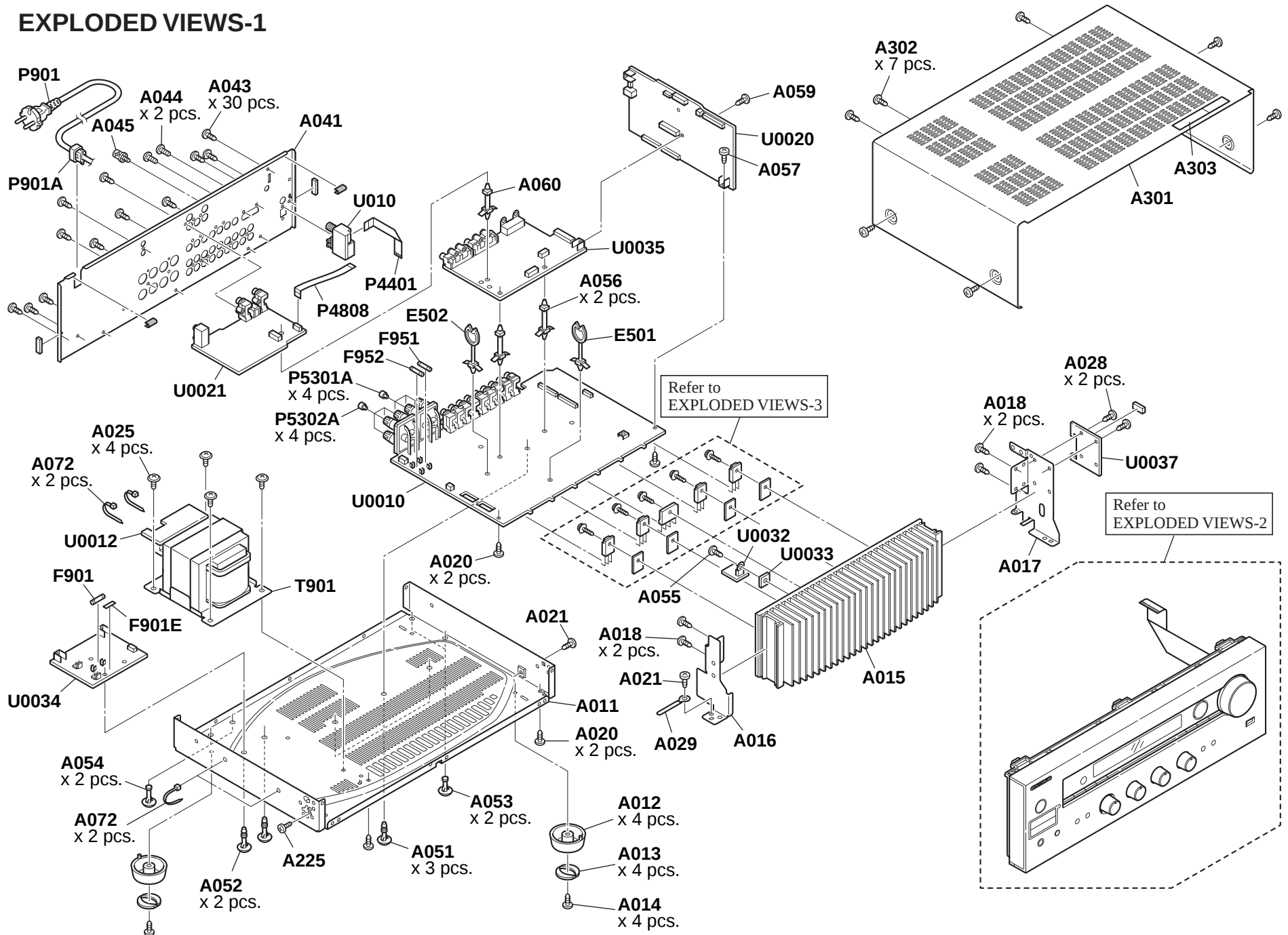
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE THESE COMPONENTS WITH ONKYO PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL.

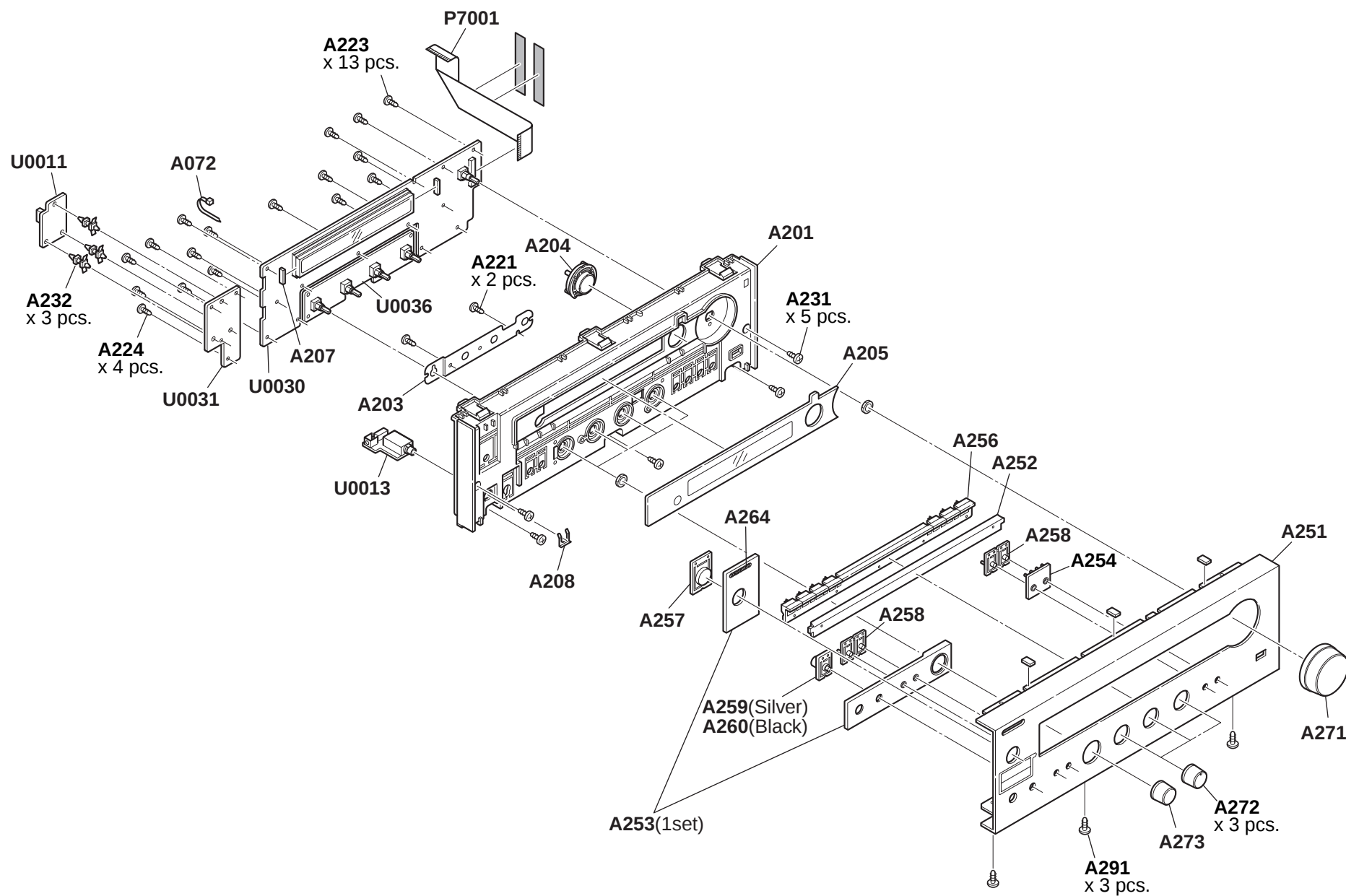
MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

ONKYO SOUND & VISION CORPORATION
Service Department

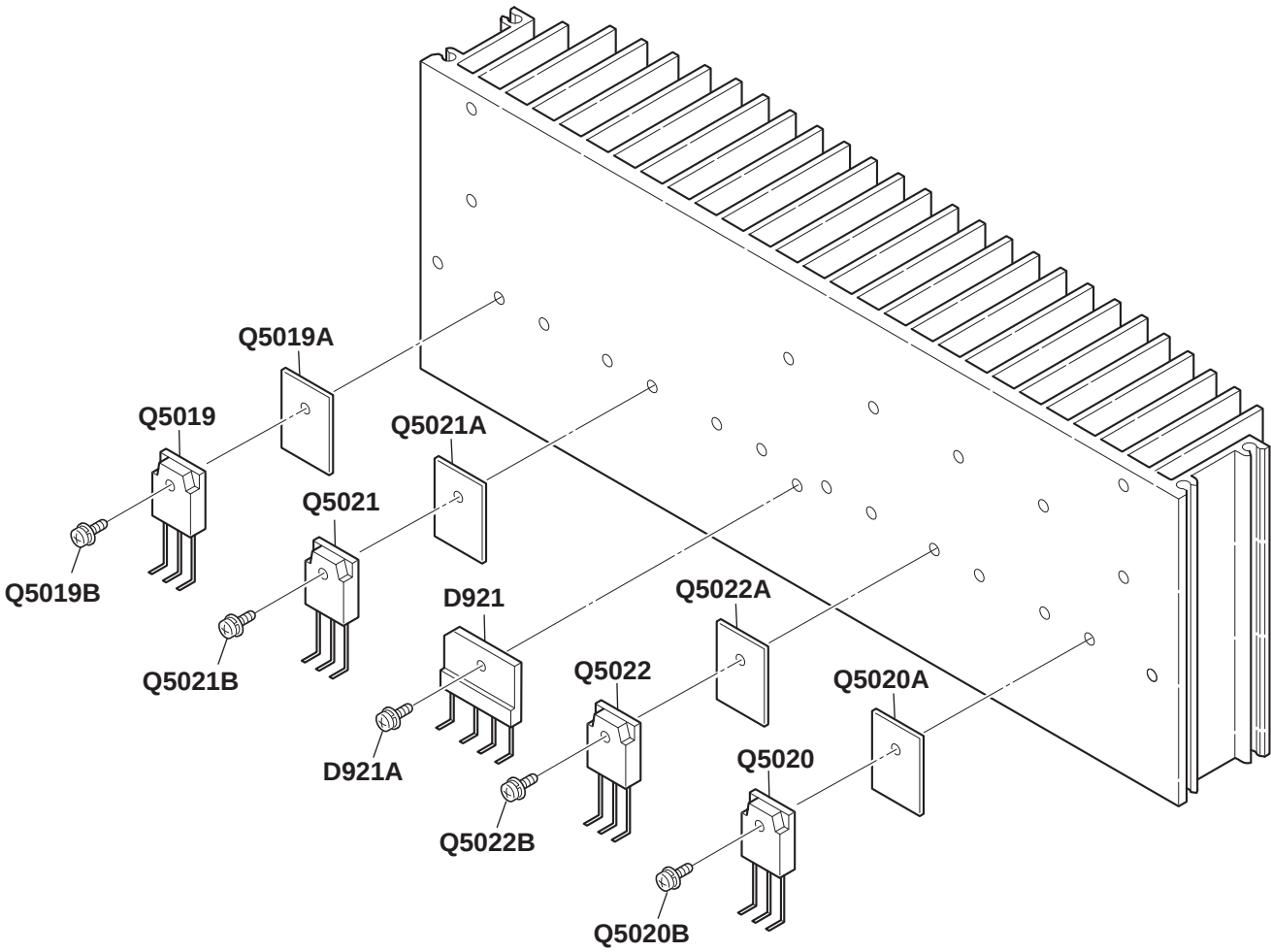
EXPLODED VIEWS-1

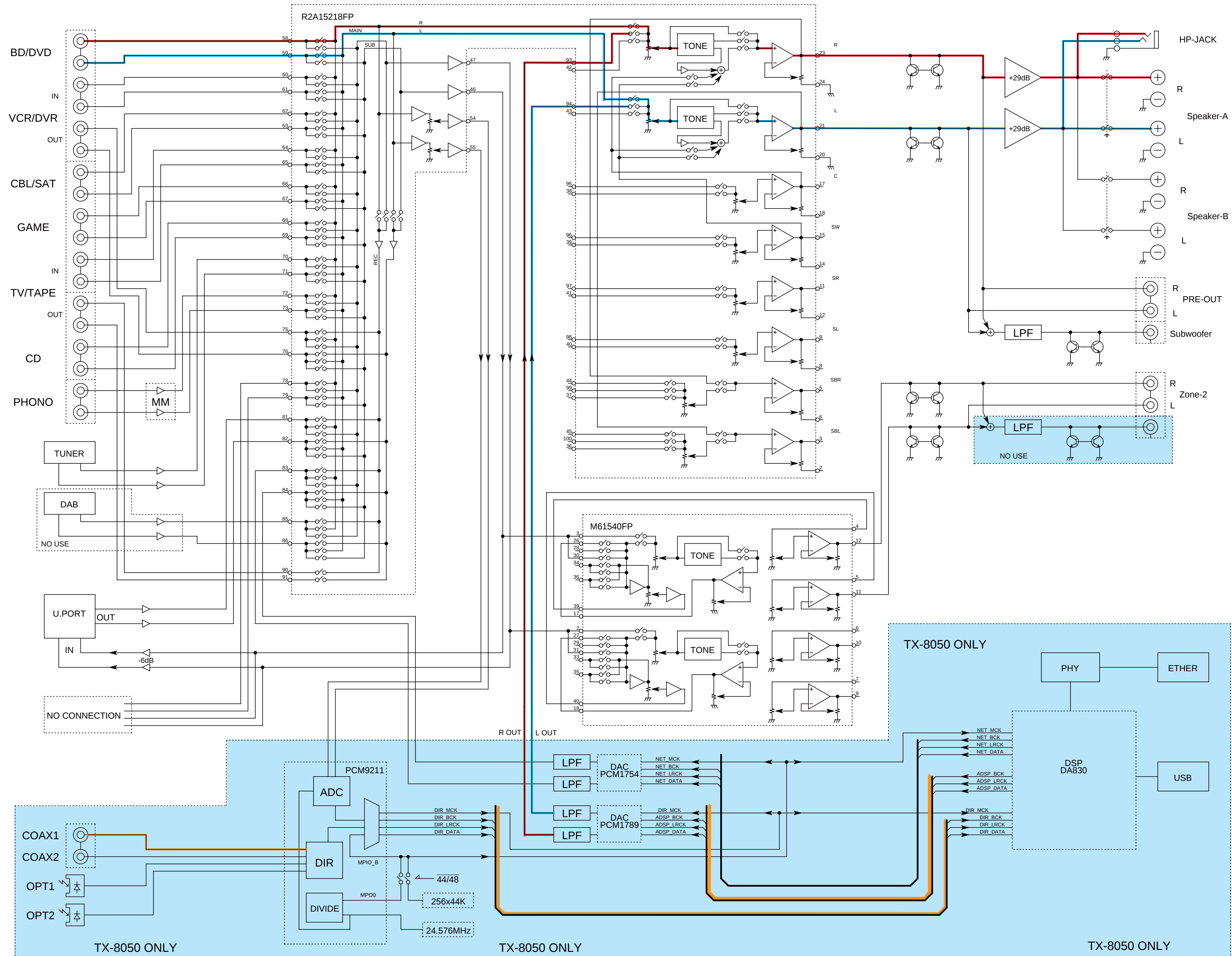


EXPLODED VIEWS-2



EXPLODED VIEWS-3



SCHEMATIC DIAGRAM - 1 (SD - 1)
AUDIO BLOCK DIAGRAM SECTIONAudio signal line (BD/DVD) (DAC OUT)
L channel —
R channel —
Digital signal line (COAX1) —

A

B

C

D

E

SCHEMATIC DIAGRAM - 2 (SD - 2)

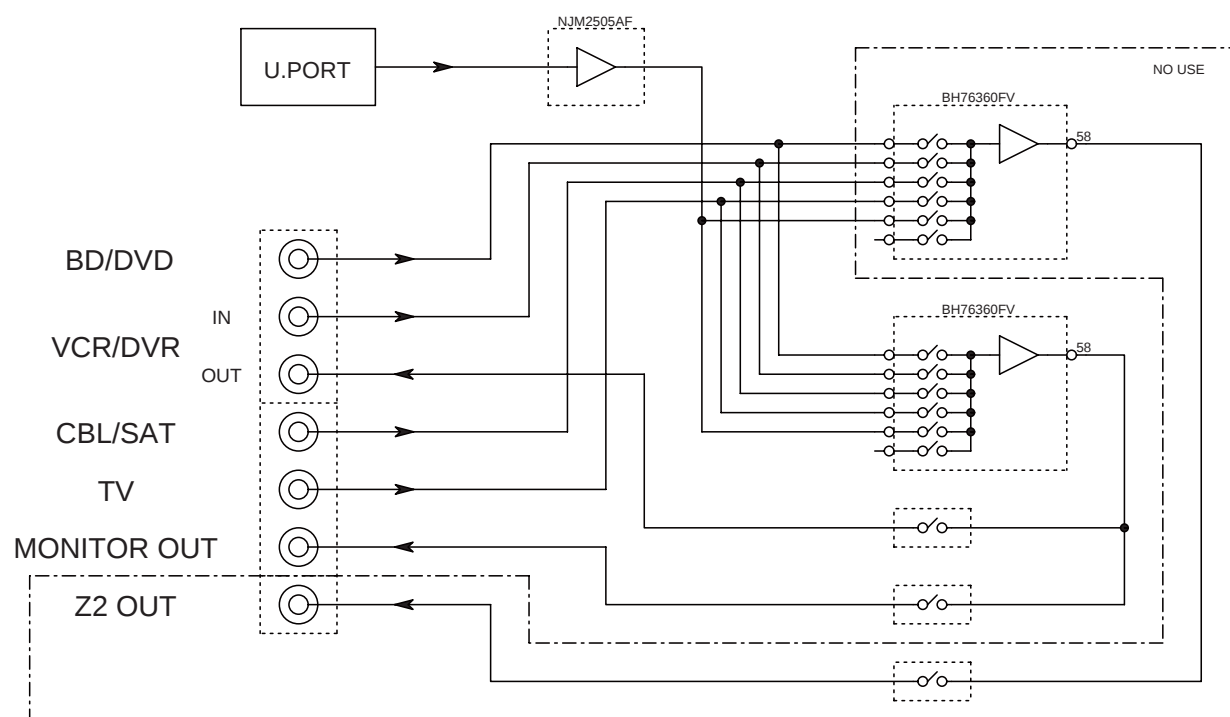
VIDEO BLOCK DIAGRAM SECTION

1

2

3

4



SCHEMATIC DIAGRAM - 3 (SD - 3)

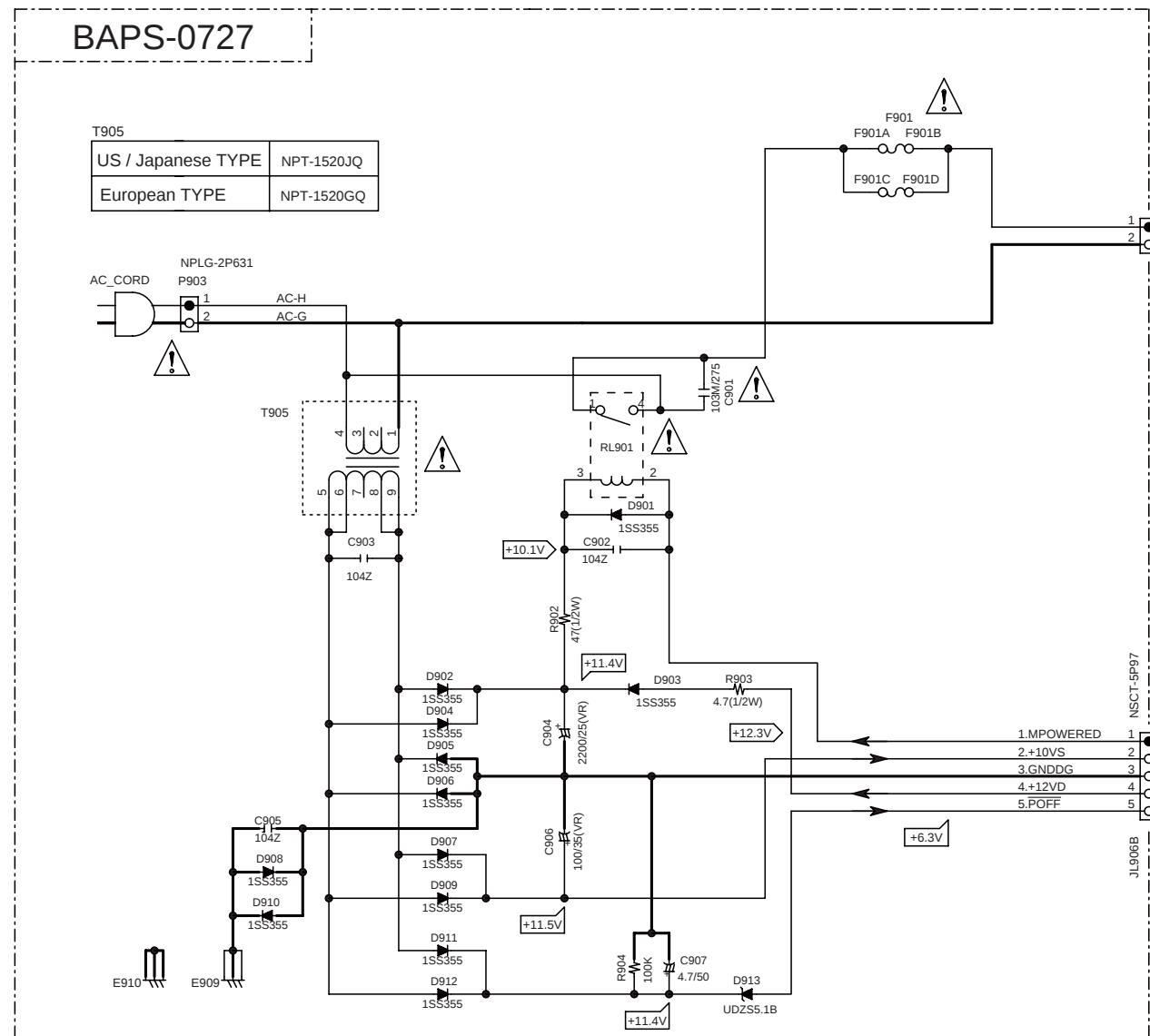
MAIN TRANS / SUB TRANS / AC IN SECTION

1

2

3

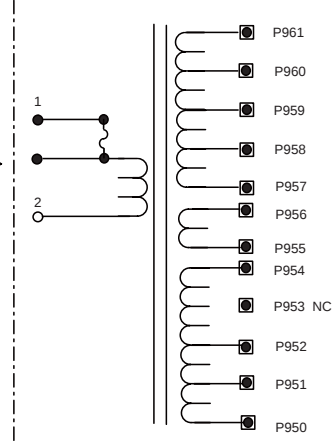
4



	F901	T-901 (TRANS)
US TYPE	8A 125V	NPT-1604D
European TYPE	T4AL250V	NPT-1604P
Japanese TYPE	8A 125V	NPT-1604J

T-901 (TRANSFORMER)

NPT-1604



CAUTION
FOR CONTINUED PROTECTION
AGAINST FIRE HAZARD, REPLACE
ONLY WITH FUSE OF SAME TYPE
AND RATING INDICATED.



ATTENTION
AFIN D'ASSURER UNE PROTECTION
PERMANENTE CONTRE LES RISQUES
D'INCENDIE, REMPLACER UNIQUEMENT
PAR UN FUSIBLE DE MEME TYPE
ET CALIBRATION COMME INDIQUE.



THIS SYMBOL LOCATED NEAR THE FUSE INDICATES
THAT THE FUSE USED IS SLOW OPERATING TYPE
FOR CONTINUED PROTECTION AGAINST FIRE FUSE
HAZARD. REPLACE WITH SAME TYPE FUSE. FOR FUSE
RATING REFER TO THE MAKING ADJACENT TO THE SYMBOL.



CE SYMBOLE INDIQUE QUE LE FUSIBLE UTILISE EST
A LENT. E POUR UNE PROTECTION PERMANENTE UTILISER
QUE DES FUSIBLES DE MEME TYPE. CE DERNIER EST
INDIQUE LA QU LE PRESENT SYMBOLE EST ADPOSE.

NOTE

THE COMPONENTS IDENTIFIED BY MARK ARE CRITICAL FOR SAFETY.
REPLACE ONLY WITH PART NUMBER SPECIFIED.

VOLTAGE (MEASURED WITH VOLTMETER) IS DC VOLTAGE (NO INPUT SIGNAL)

ALL PNP TRANSISTORS ARE EQUIVALENT TO 2SA1015-GR UNLESS OTHERWISE NOTED.
ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOTED.
ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.

ELECTROLYTIC CAPACITORS ARE IN $\mu F/W$.

ALL CAPACITORS ARE IN $\mu F/50WV$ UNLESS OTHERWISE NOTED.
EX) 0.00-33 μF 331-330 μF 333-330.03 μF

ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS

EX PRINTING SIDE

CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

SCHEMATIC DIAGRAM - 4 (SD - 4)

AUDIO INPUT SECTION

Audio signal line (CD)
L channel
R channel

L channel
R channel

1

2

3

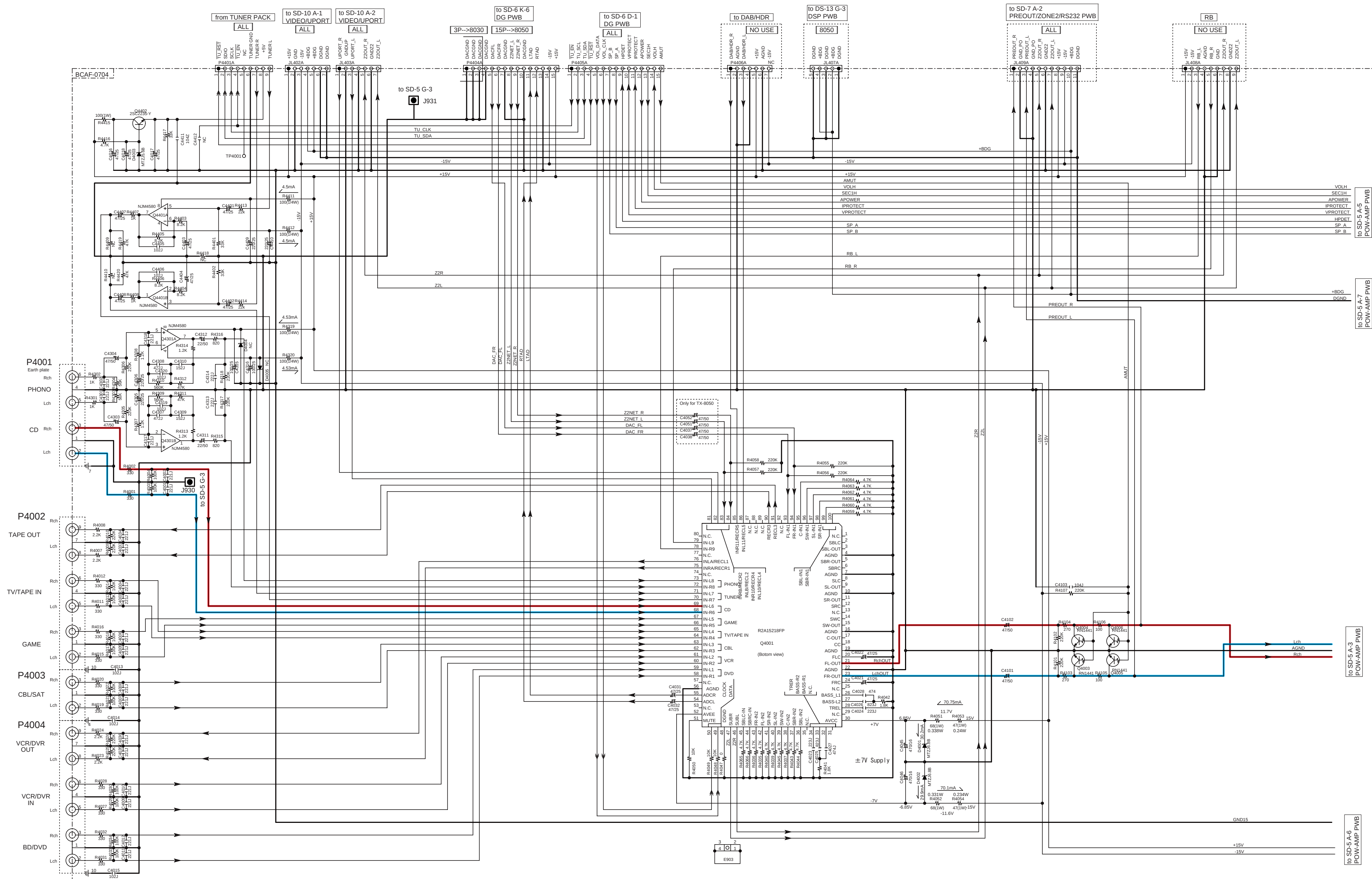
4

5

6

7

8



SCHMATIC DIAGRAM - 5 (SD - 5) POWER AMPLIFIER SECTION

Audio signal line
L channel —
R channel —

1

2

3

4

5

6

7

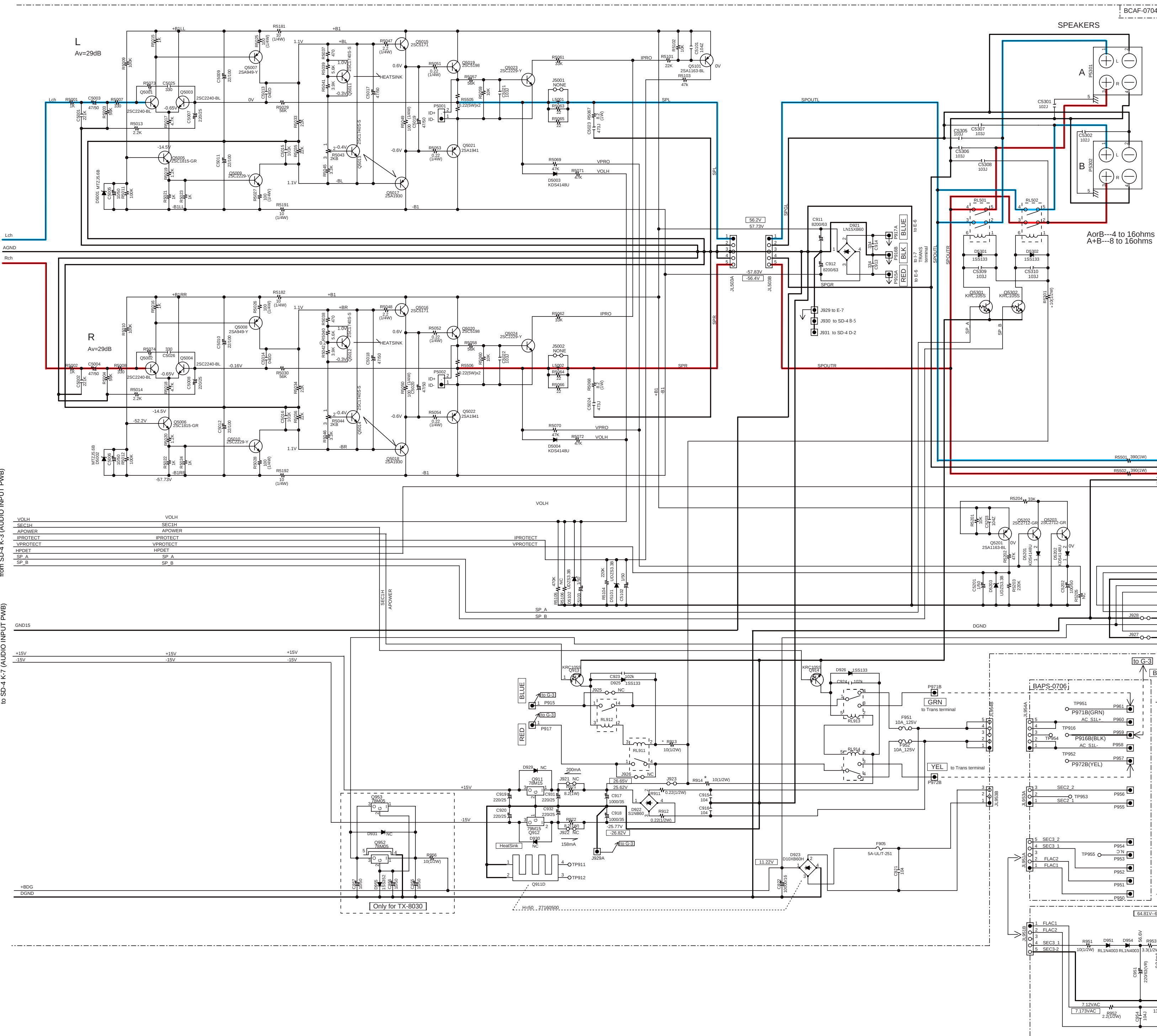
8

from SD-4 K-3

from SD-4 K-3 (AUDIO INPUT PWB)

to SD-4 K-7 (AUDIO INPUT PWB)

to SD-4 K-3



アイドリング電流調整

ADJUSTMENT OF IDLING CURRENT

- a. 無負荷・無信号にてPOWER ON直後、P5001、P5002の両端電圧をR5043、R5044にて2.5mVに設定する。
Set the voltages at P5001 and P5002 to 2.5mV by adjusting R5043 and R5044, under the condition of no input and no load, immediately after POWER ON.
- b. 約4～6分間のヒートラン後、下記手順で再調整する。

9mV	未満の場合	9mV
9 - 11mV	の場合	そのまま
11mV	より大きい場合	11mV

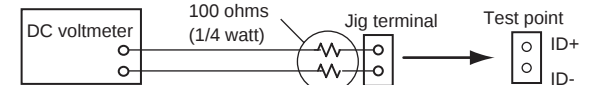
Re-adjust by following procedure after 4~6 minutes of heat running.

Below	9mV	9mV
Between	9 - 11mV	Leave it.
Over	11mV	11mV

NOTE

- 1) R5043、R5044はPOWER ON前に、左に回して最小の位置にしておく。
Set R5043 and R5044 to minimum position before POWER ON.
- 2) P5001、P5002に接続するJIGの両方の端子には、端子近傍にそれぞれ100Ω1/4Wの抵抗をシリーズに入れること。

Equip series 1/4W 100-ohm resistor near each terminal of the jig which is connected to P5001 and P5002.

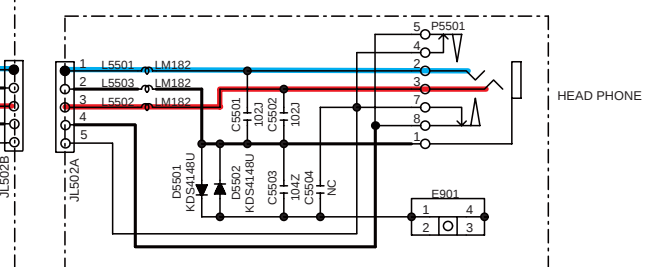


- 3) 調整にはIDLING TIMER (テストモード)を使用して下さい。
Please adjust them by using IDLING TIMER (TEST MODE).

3-1 テストモードの入り方

HOW TO ENTER TEST MODE

- a. VOLUMEが25の時にZONE2 OFFキーを押しながら、MEMORYキーを押すと表示音に"TEST-"と表示される。
When the VOLUME of the unit is 25, press MEMORY button while pressing down ZONE2 OFF button to display "TEST-" on the FLT.
- b. 次に、SPEAKER-Aを押すとIDLING TIMER (テストモード)に入る。
When next, SPEAKER-A is pushed. IDLING TIMER (TEST MODE) it enters.
- c. テストモードを終わるにはON/STANDBYキーを押す。
Press ON/STANDBY button to exit test mode.



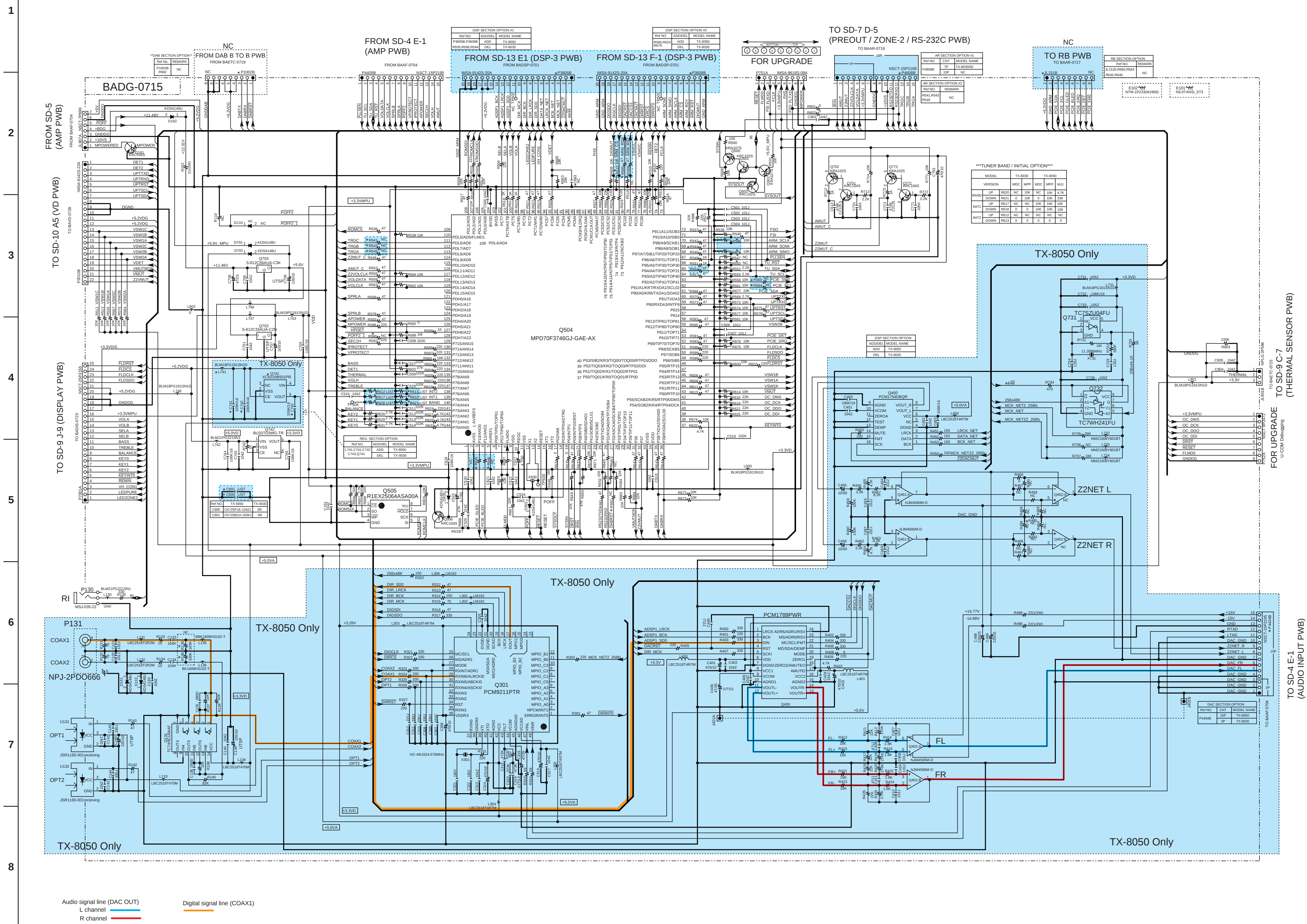
from SD-3 D-3 (AUDIO INPUT PWB)

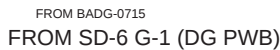
to SD-6 A-2 (DG PWB)

from SD-3 E-2 (TRANSFORMER)

to SD-9 B-3 (DISPLAY PWB)

MICON / DAC / DIR SECTION



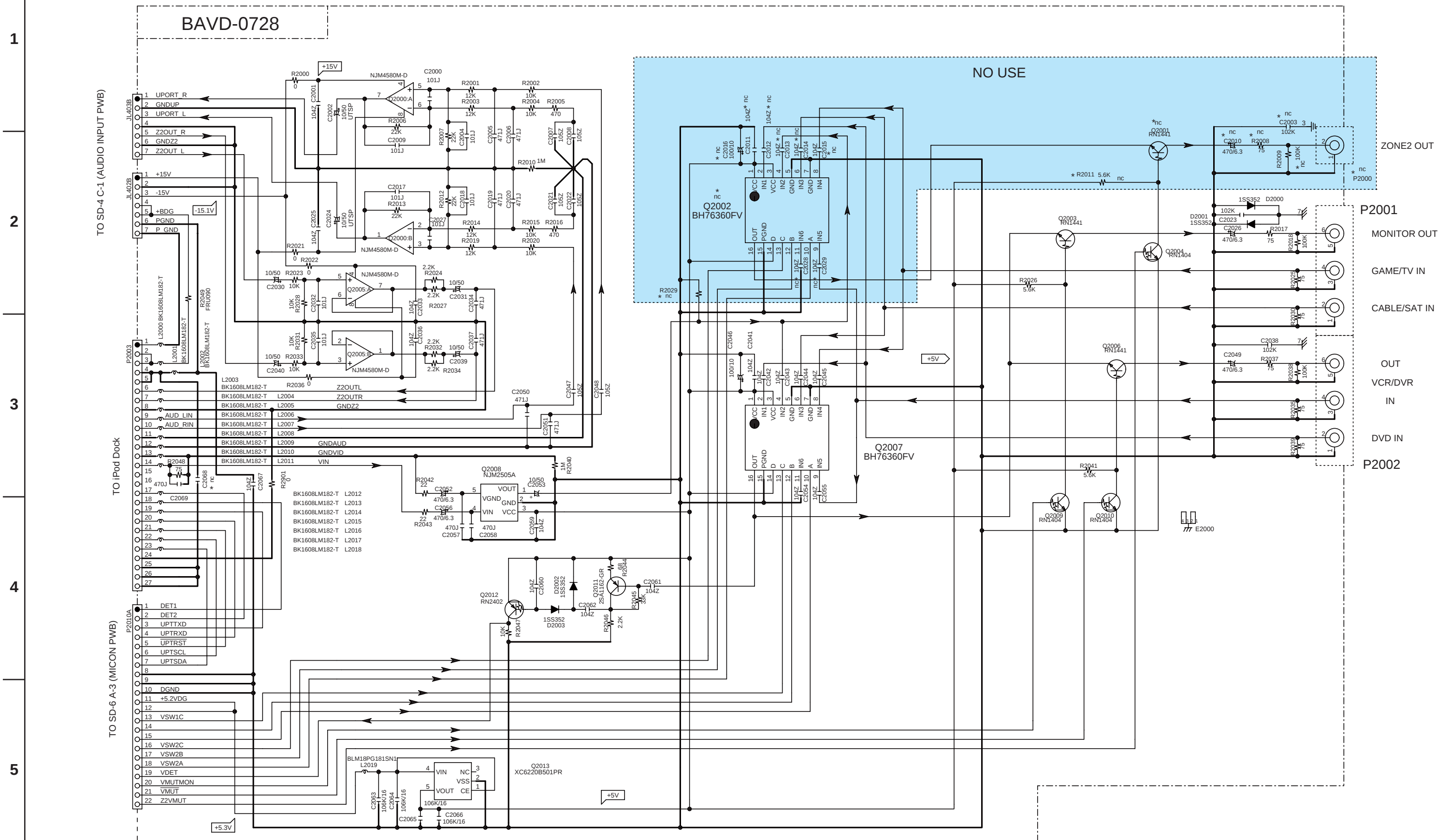


SD - 9 : DISPLAY SECTION



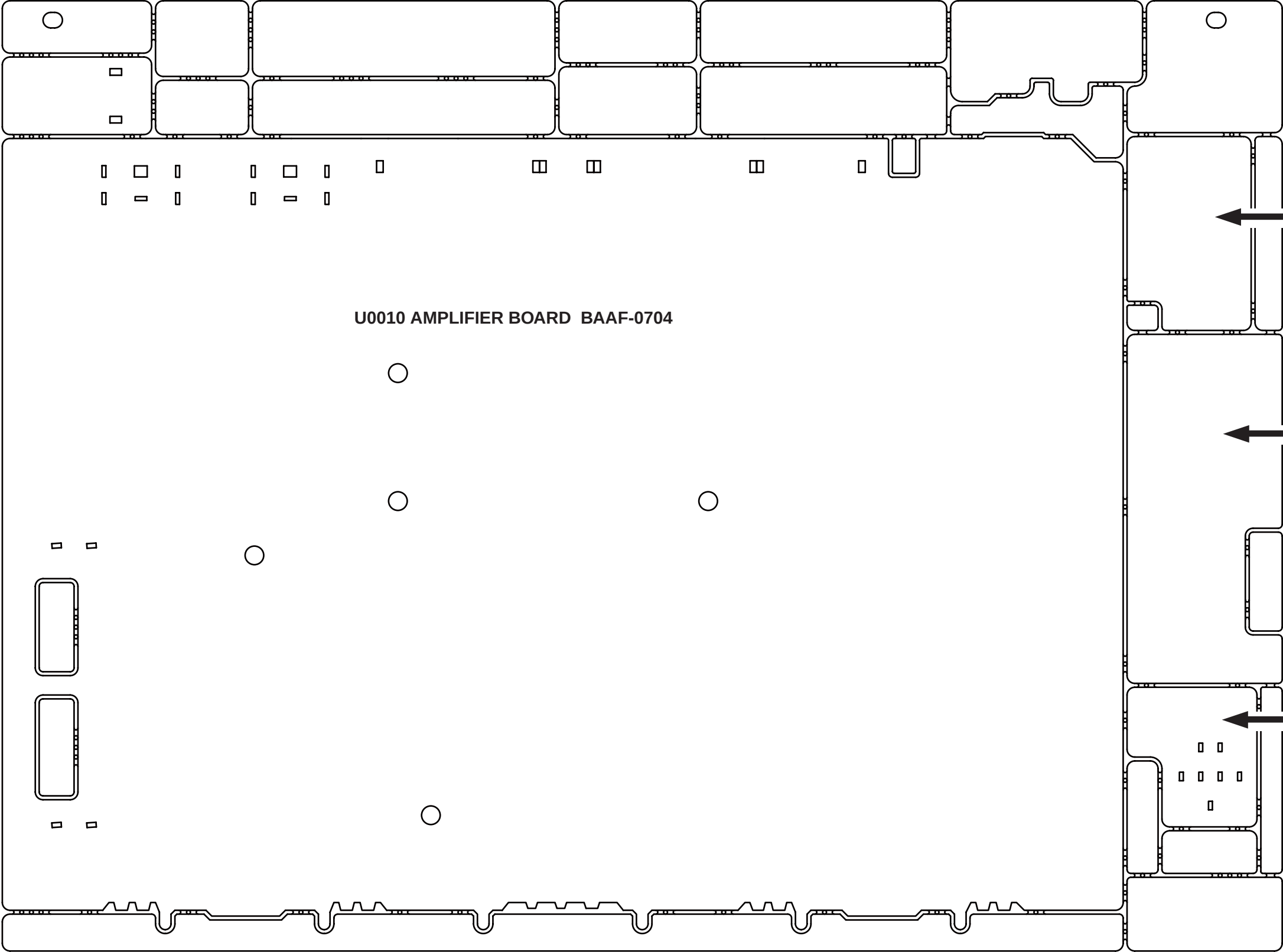
FROM SD-12 H-1 (DSP-2 PWB)

SCHEMATIC DIAGRAM - 10 (SD - 10)
VIDEO / U.PORT SECTION



PRINTED CIRCUIT BOARD VIEW-1

U001 AMPLIFIER BOARD
BAAF-0704



U0011
FL DRIVE BOARD
BAPS-0705

U0012
TRANS. TERMINAL
BOARD
BAPS-0706

U0013
HP JACK BOARD
BAETC-0707

A side view

A B C D E F G H

PRINTED CIRCUIT BOARD VIEW-2

U001 AMPLIFIER BOARD
BAAF-0704

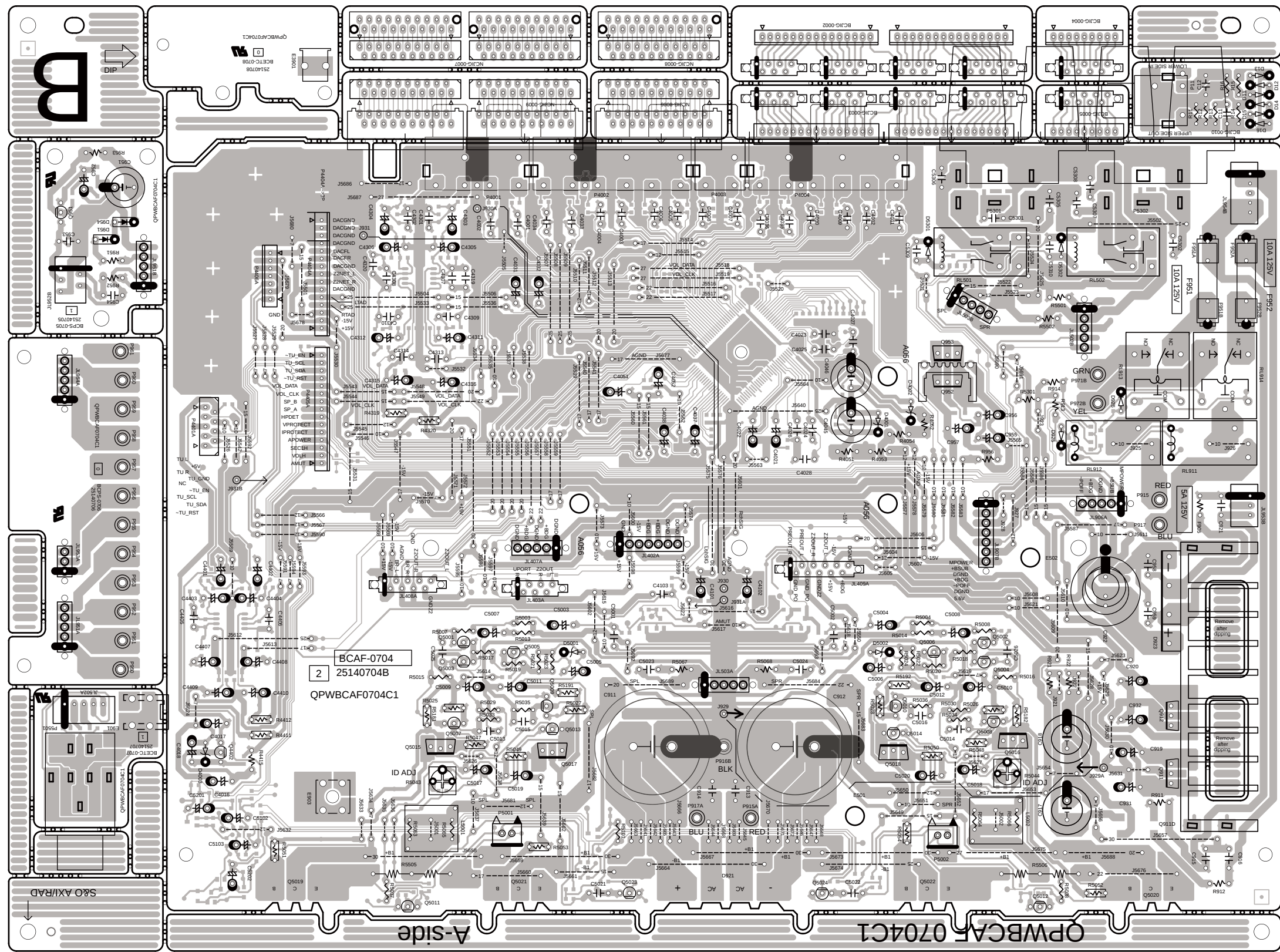
1

2

3

4

5



A side view from B side

A B C D E F G H

PRINTED CIRCUIT BOARD VIEW-3

U001 AMPLIFIER BOARD
BAAF-0704

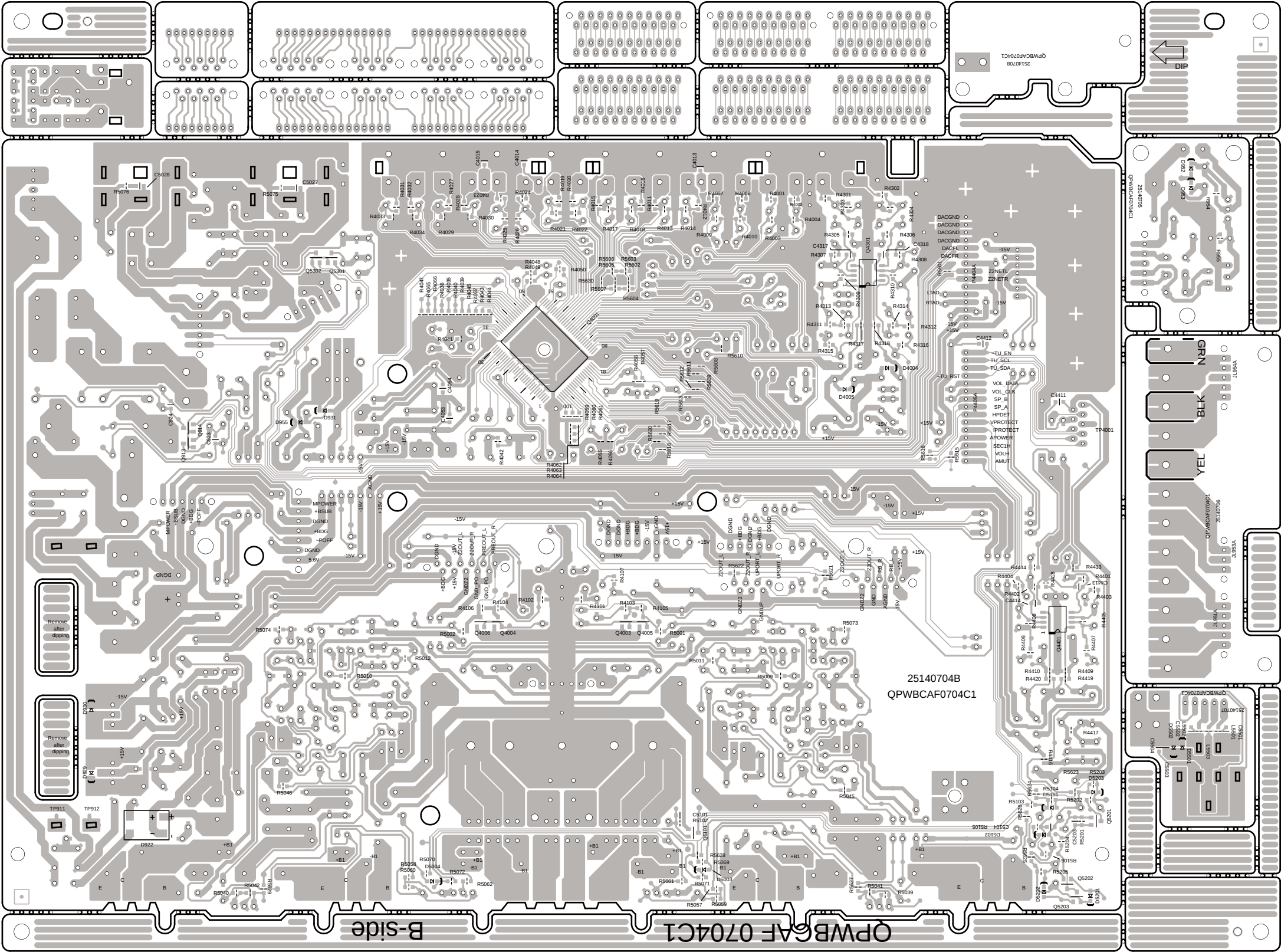
1

2

3

4

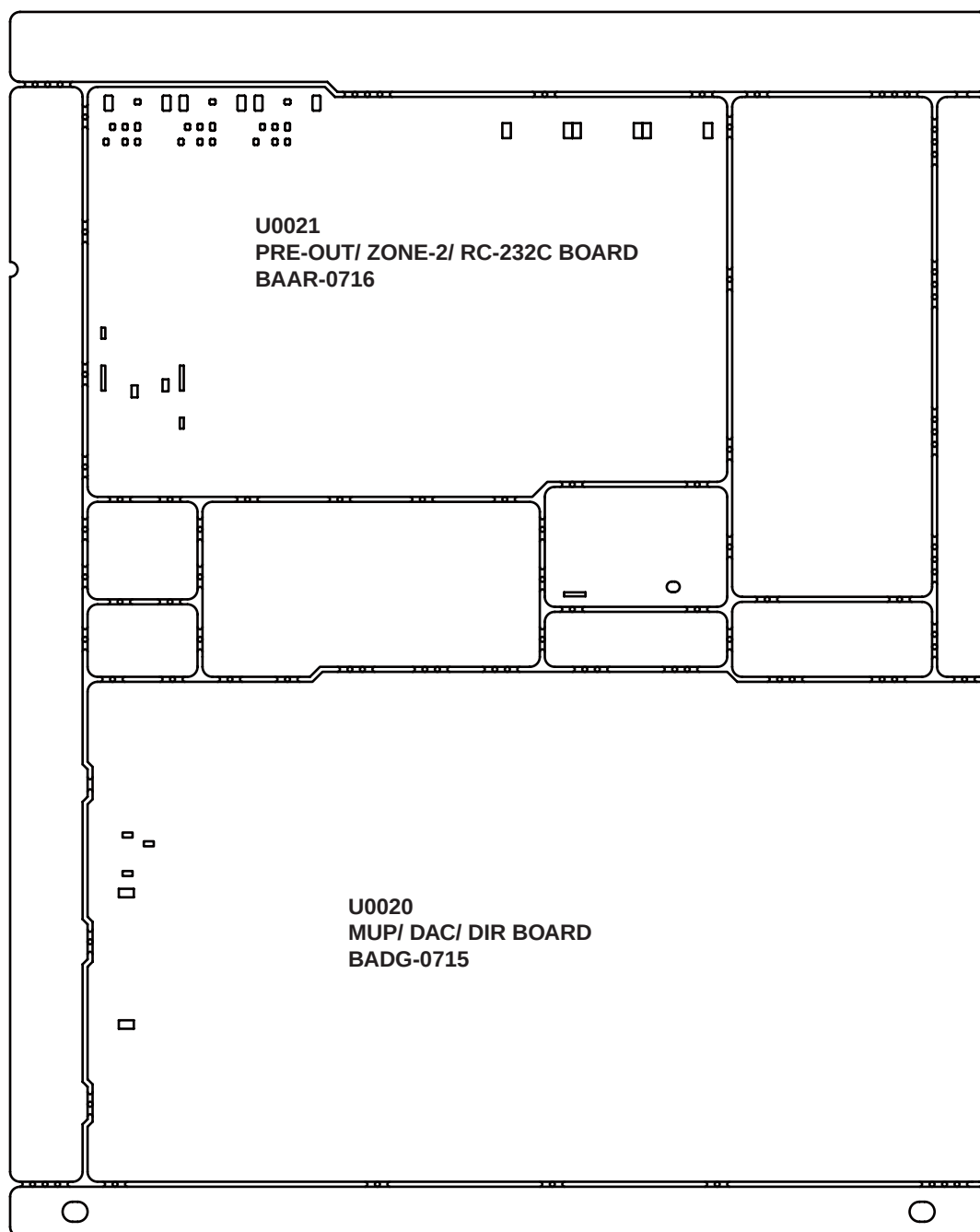
5



B side view from A side

PRINTED CIRCUIT BOARD VIEW-4

U002 MUP/ DAC/ DIR BOARD
BADG-0715



A side view

A

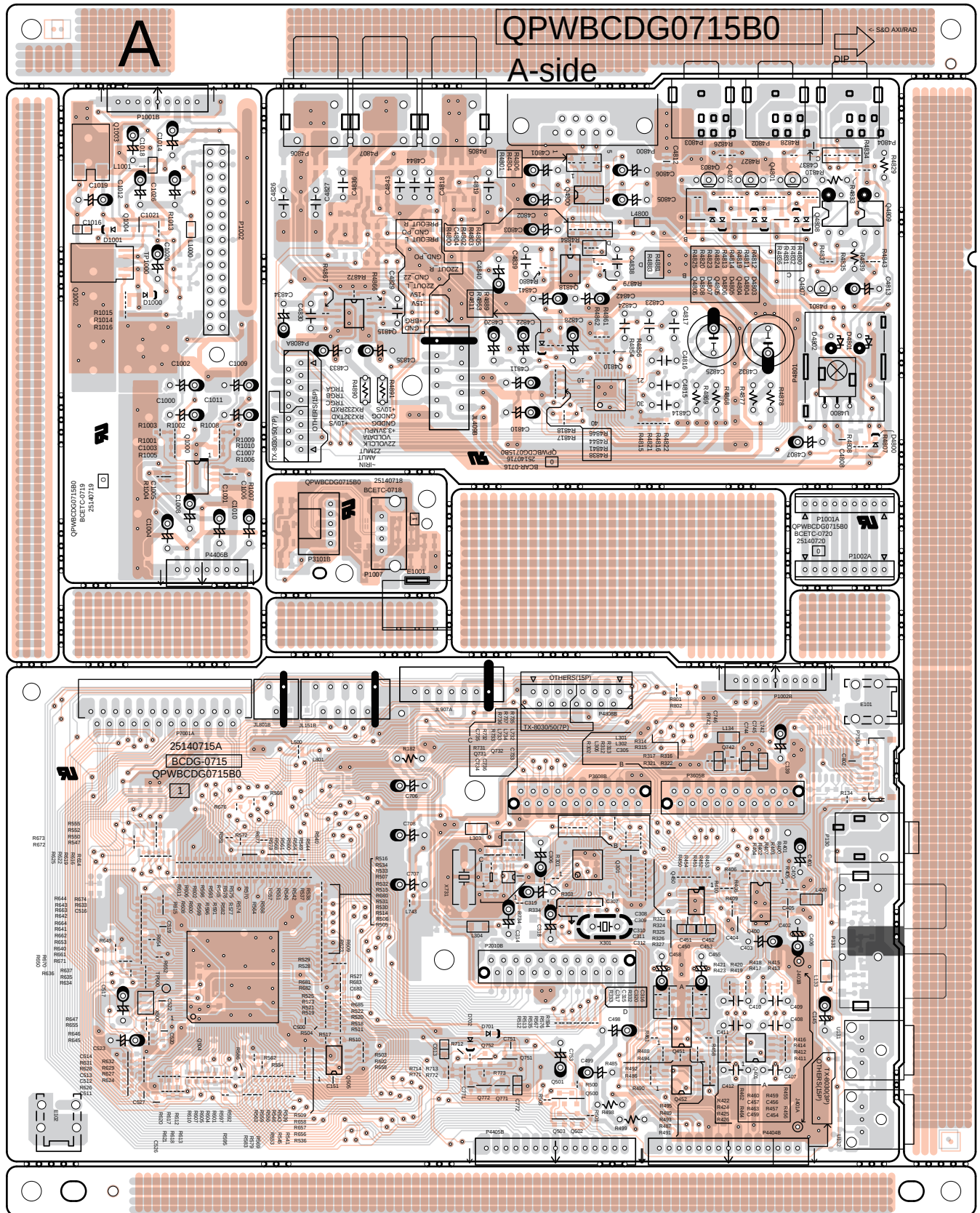
B

C

D

PRINTED CIRCUIT BOARD VIEW-5

U002 MUP/ DAC/ DIR BOARD
BADG-0715

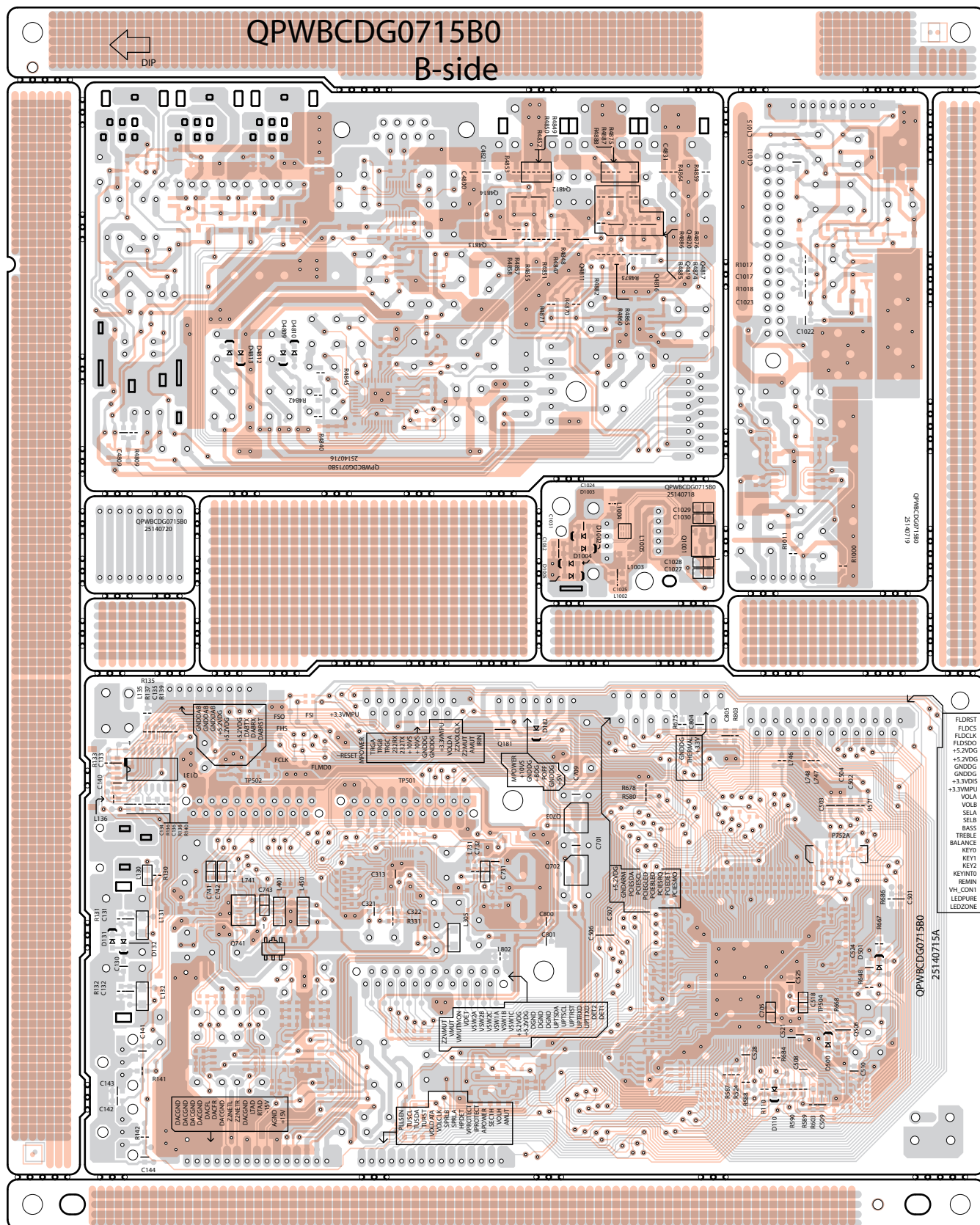


A side view from B side

— B side pattern
— A side pattern

**U002 MUP/ DAC/ DIR BOARD
BADG-0715**

QPWBCDG0715B0
B-side

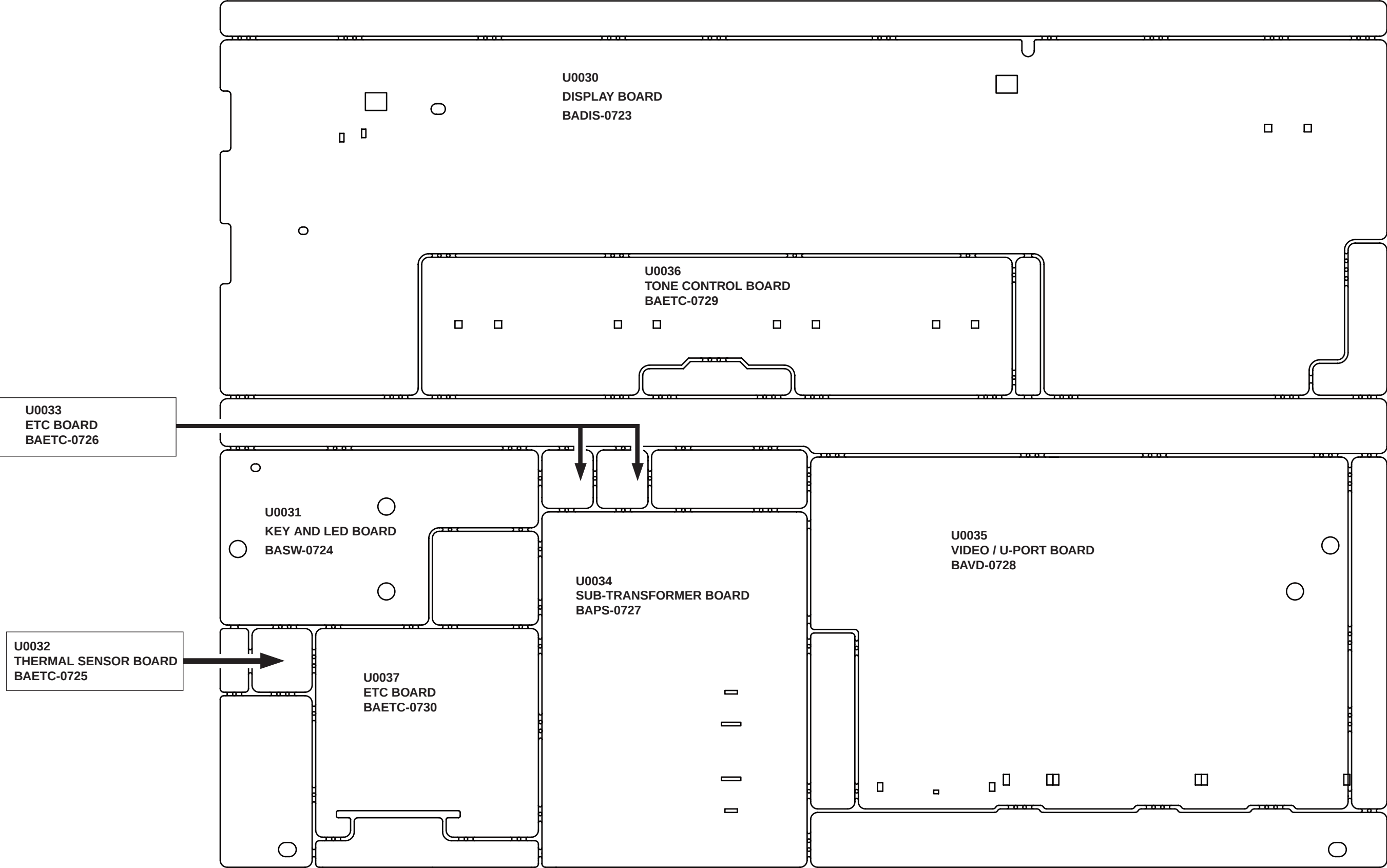


B side view from A side

 B side pattern
 A side pattern

PRINTED CIRCUIT BOARD VIEW-7

U003 DISPLAY BOARD BADIS-0723



A side view

A B C D E F G H

PRINTED CIRCUIT BOARD VIEW-8

U003 DISPLAY BOARD BADIS-0723

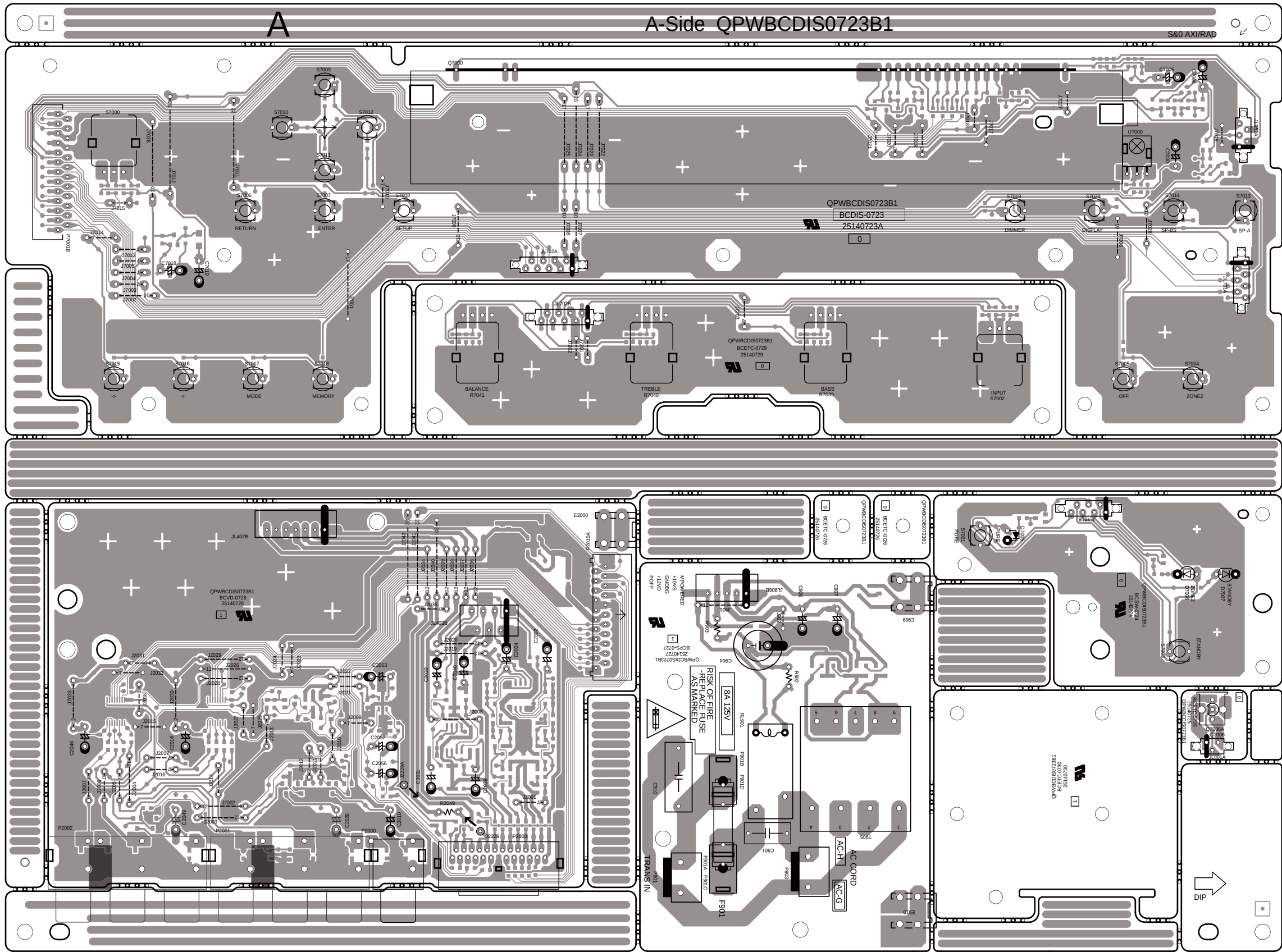
1

2

3

4

5



PRINTED CIRCUIT BOARD VIEW-9

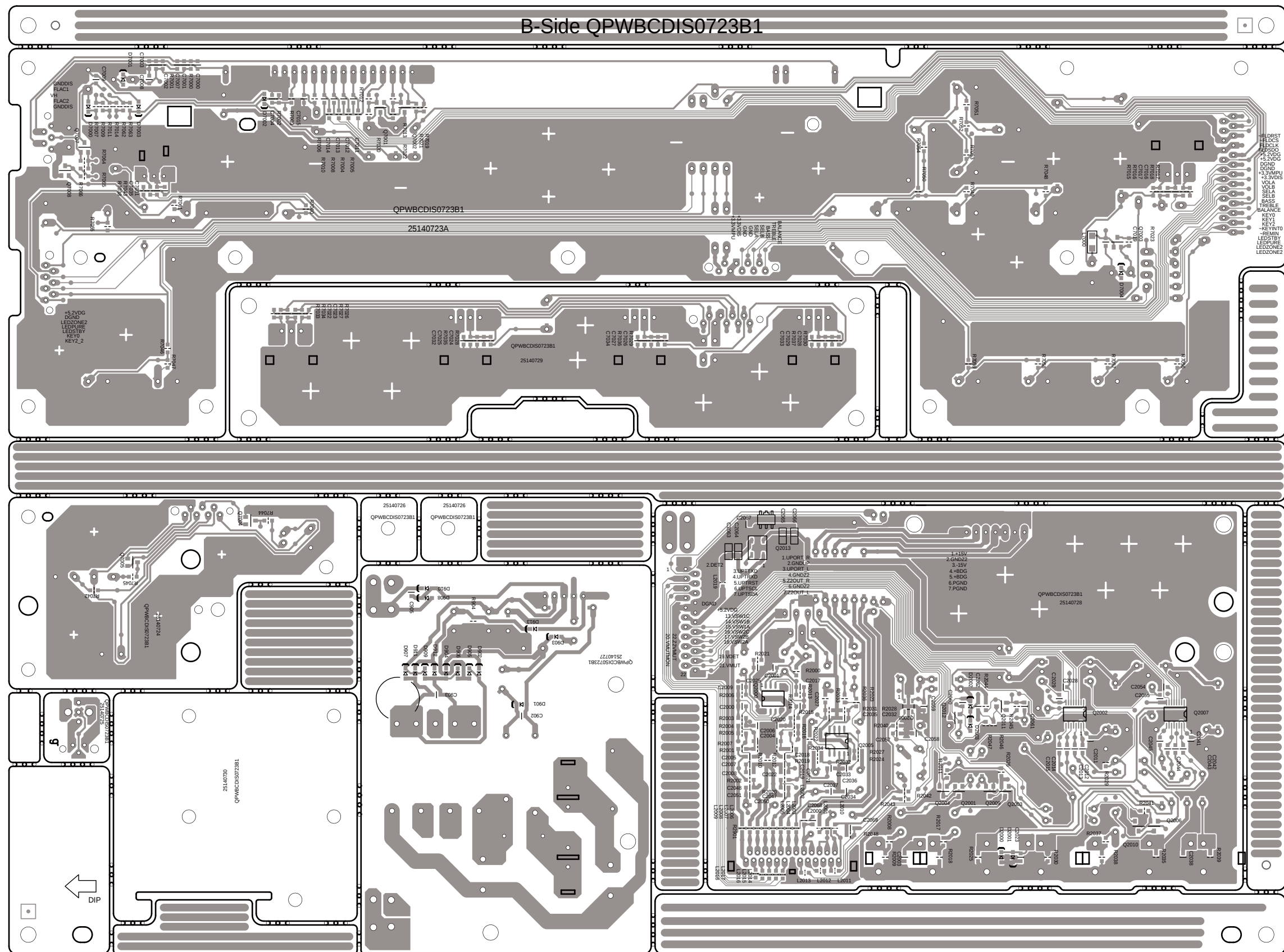
U003 DISPLAY BOARD BADIS-0723

2

3

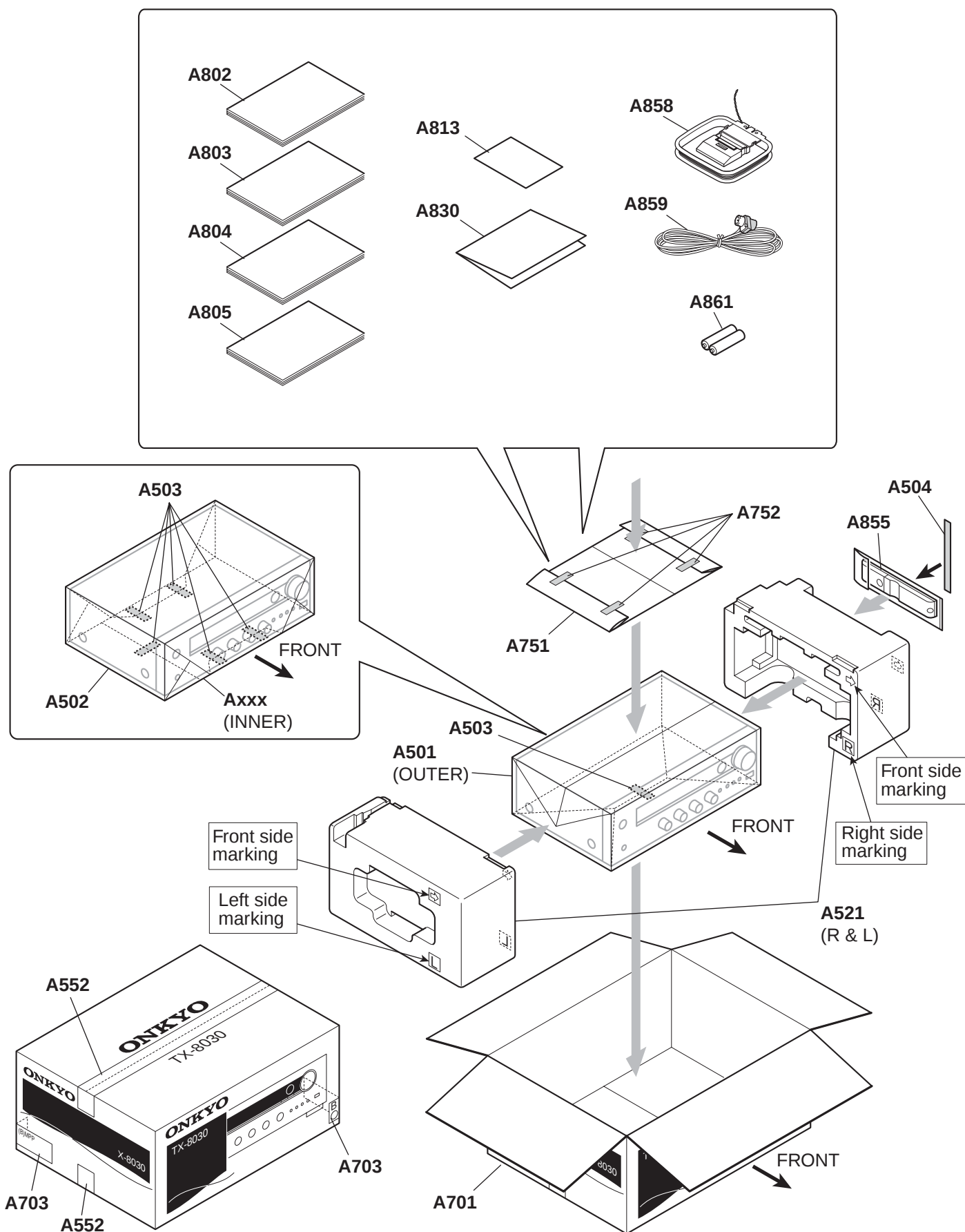
4

5



B side view from A side

PACKING PROCEDURE



ONKYO®

ONKYO SOUND & VISION CORPORATION

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<http://www.ch.onkyo.com/>