SERVICEANLEITUNG

Service Manual. Manuel de Service. Manuale di Servizio. Instrucciones de servicio. Service-instructies.

BRD Player 230- 98287.012

BLUTECH VISION Art.-Nr. 67501



BLUTECH VISION



SERVICE MANUAL

BLU-RAY DISC PLAYER

67501 T 00 MODELS 67501 D 00

In the interests of user-safety (Required by safety regulation in some countries) the set should be restored to its original conditions and only parts identical to those specified should be used.

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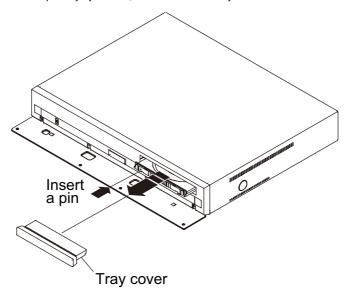
Parts marked with " \triangle " are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

CHAPTER 1. REMOVING OF MAJOR PARTS

[1] REMOVING OF MAJOR PARTS

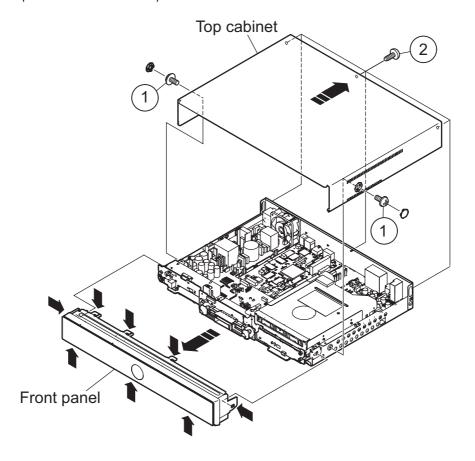
1. Removing the tray cover

1. Eject the tray by inserting a pin into the compulsory eject hole, then remove the tray cover.



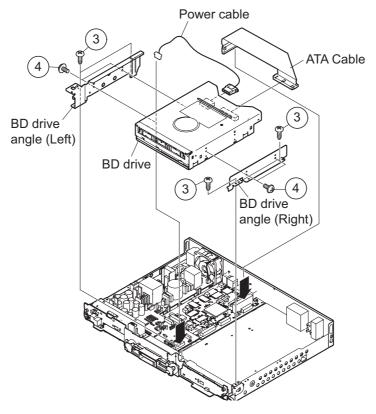
2. Removing the cabinet and the panel

- 1. Remove two screws ① and three screws ② from the top cabinet.
- 2. Unhook claws of the front panel and remover the front panel.



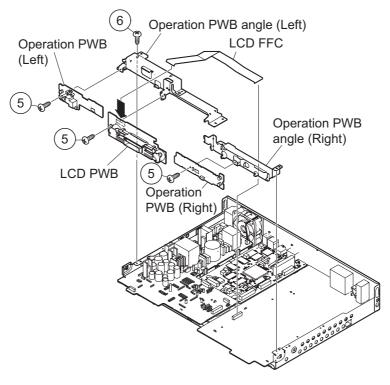
3. Removing the BD drive

- 1. Disconnect the ATA cable and power cable.
- 2. Remove four screws ③ and remove the BD unit (with the angle) upward.
- 3. Remove four screws ④ and remove the BD unit.



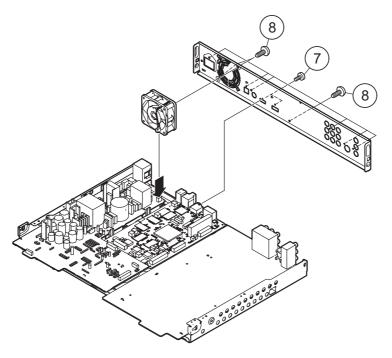
4. Removing the front PWB

- 1. Disconnect the LCD FFC between the LCD PWB and analog PWB.
- 2. Remove three screws ⑤ .
- 3. Remove one screw 6 .
- 4. Remove the operation PWB angles (left and right).



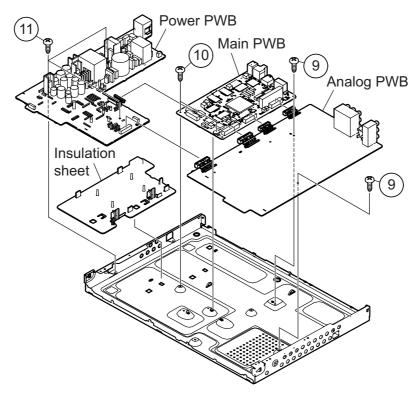
5. Removing the fan and the rear terminal board

- 1. Remove two screws ${ \ensuremath{ \mathbb T} }$.
- 2. Remove nine screws ® .
- 3. Disconnect the fan cable connector and remove the fan.

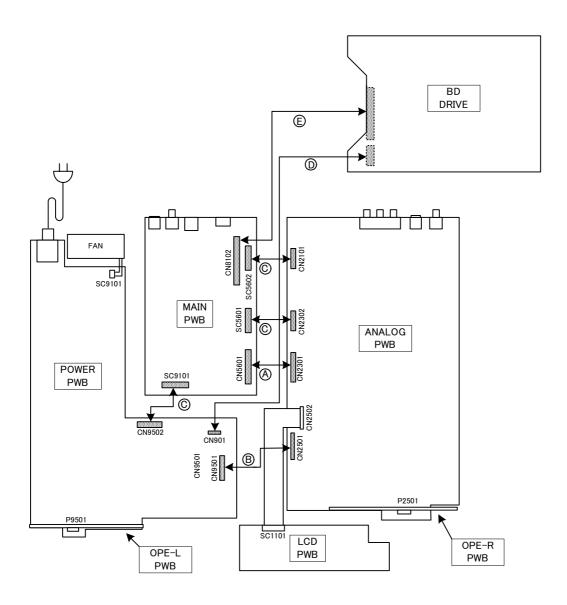


6. Removing each PWB

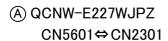
- 1. Disconnect the board to board connectors from each PWB.
- 2. Disconnect the board to board connectors (three) from the main PWB and analog PWB, then remove two screws ^③ . Disconnect the board to board connector (one) between the analog PWB and power PWB.
- 3. Remove two screws ¹⁰ .
- 4. Remove three screws ① .
- 5. Remove the insulation sheet.



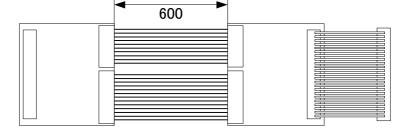
[2] EXTENSION CABLE CONNECTION DIAGRAM



	Parts Code	Name/Description	Pin
A	QCNW-E227WJPZ	CN5601 <=> CN2301	23
B	QCNW-E228WJPZ	CN2501 <=> CN9501	19
©	QCNW-E229WJPZ	SC5601 <=> CN2302, SC5602 <=> CN2101, SC9101 <=> CN9502	15
(D)	QCNW-E573WJPZ	CN901 <=> BD DRIVE	4
E	-	ATA66 Cable (Commercially available) CN8102 <=> BD DRIVE	40

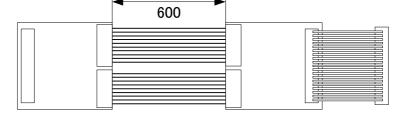


Used in the above one place. (23Pin)



(B) QCNW-E228WJPZ CN2501⇔CN9501

Used in the above one places. (19Pin)

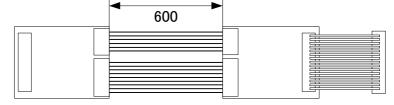


© QCNW-E229WJPZ

SC5601⇔CN2302

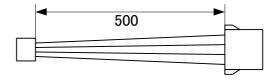
SC5602⇔ CN2101 SC9101 ⇔ CN9502

Used in the above three places. (15Pin)



① QCNW-E573WJPZ CN901⇔BD DRIVE

Used in the above one places. (4Pin)



(E) ATA66 Cable (Commercially available)

CN8102⇔BD DRIVE

Used in the above one places. (40Pin)

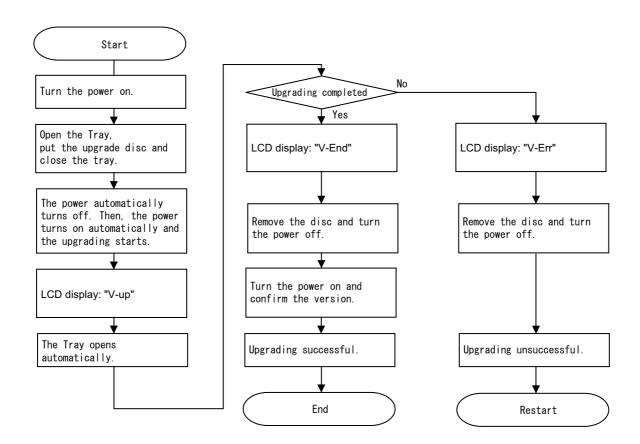
[3] IMPORTANT SERVICE NOTICE

- 1. To replace the Main CBA, perform the items 9 12 of [4] Upgrading and confirm the version: it is necessary to upgrade with a disc to the latest version if the CBA version is old.
- 2. When replacing the NOR Flash Memories for SIGMA (IC8503, IC8504), even if one of them is to be replaced, both memories need to be replaced. When replacing the Flash Memories, use ones with the same version.
- 3. SIGMA (IC8104) and the E2PROMs for SIGMA (IC7601) and (IC7602) cannot be replaced independently as a single part, because the system information needs to be written. (The whole CBA needs to be replaced.)
- 4. After replacing the E2PROM for front-end software (IC2505), perform Menu Miscellaneous Settings Reset Settings.

[4] UPGRADING

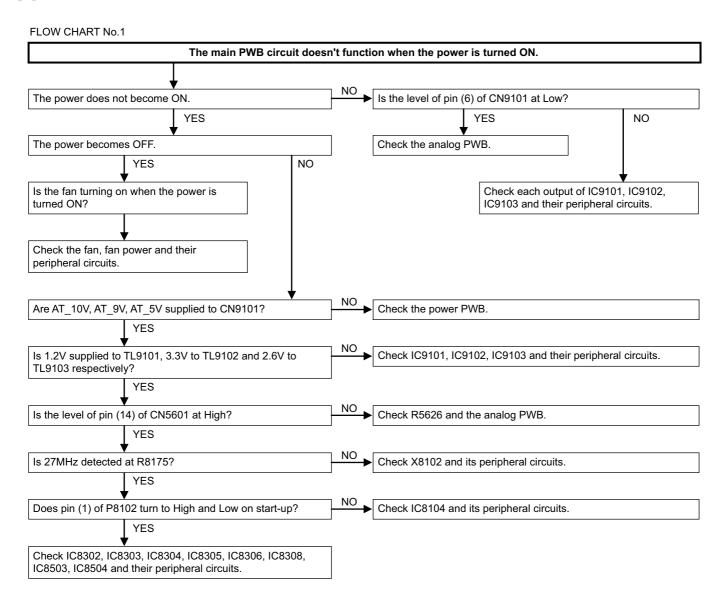
Consult with your Services Company as we cannot provide the upgrading software

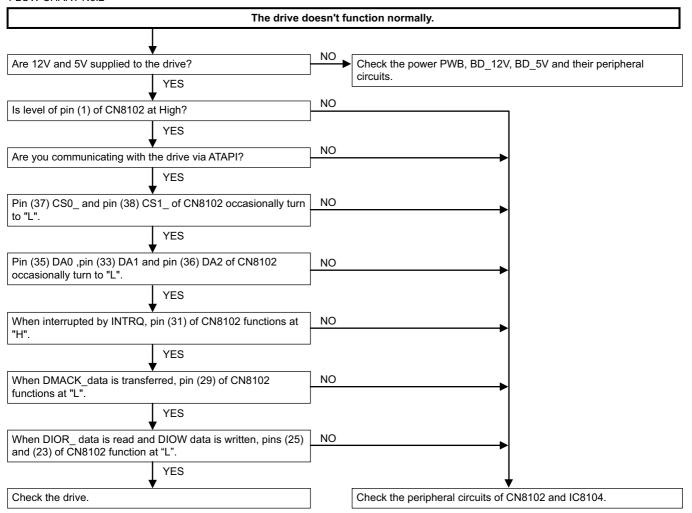
- 1. Press [Power] button to turn the switch on, then wait till the BD_LED changes from blinking to lit.
- 2. Press [Tray Open/Close] button to open the Tray, put the upgrade disc on the tray and close the tray.
- 3. The power automatically turns off. Then it turns on again and the upgrading with the disc will start.
- 4. During the upgrading, the status changes from blinking DVD_LED (white) to blinking BD_LED (white) as "V-up" message keeps blinking on LCD.
- 5. When upgrading with the disc is completed, the Tray automatically opens.
 - * If the front-end software was upgraded, BD_LED (white) will blink; then DVD_LED and BD_LED will turn blue, red, etc.; the Tray will open after the upgrading is completed and the power will turn off. (Go to step 8.)
- 6. When the upgrading is completed, the LCD will display as follows:
 - (1) Upgrading successful:"V-End" will light.
 - (2) Upgrading unsuccessful: "V-Err" will light.
- 7. Remove the disc from the Tray and press any other button of the Main Unit than [Power], then the Tray will close and the power will automatically turn off. (Confirm the power-off by stop of the Cooling Fan.)
 - * If [Power] button is pressed, the power will turn off with the Tray open.
 - * If the upgrading was unsuccessful, perform the procedure again from the step 1.
- 8. Press [Power] button to turn the power on, then wait till the BD_LED changes from blinking to lit.
- 9. Switch to [Main Diagnostic Menu] using [F4] button of the special remote control for servicing.
- 10.Looking at the version numbers in SIGMA Ver. and FRONT Ver., confirm that the upgrading to the desired version was completed.
- 11. Quit [Main Diagnostic Menu] by pressing [Green] button of the remote control.
- 12. Press [Power] button to turn the power off. (Confirm the power-off by stop of the cooling fan.)

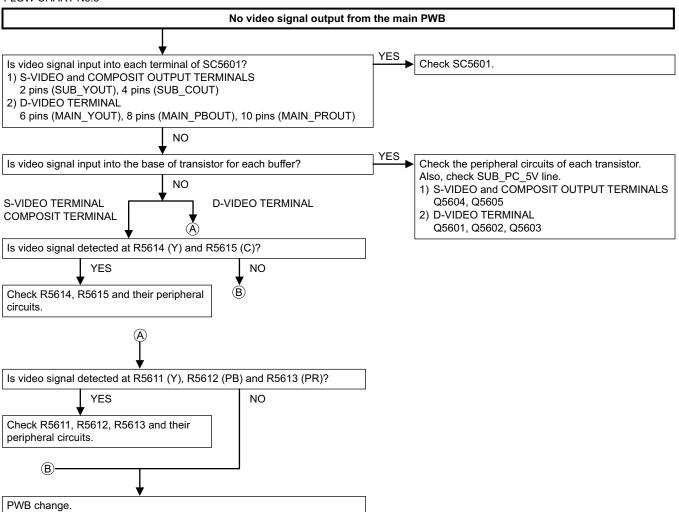


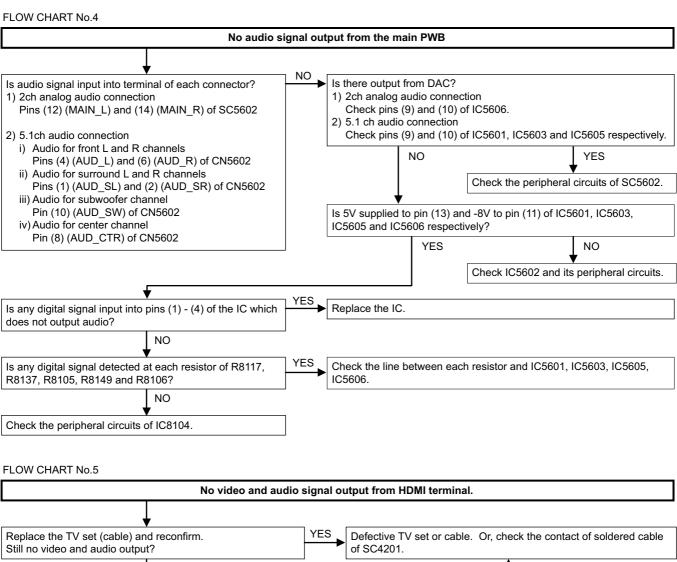
CHAPTER 2. TROUBLE SHOOTING TABLE

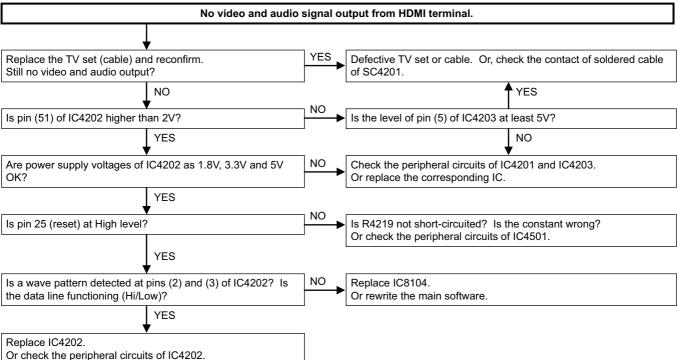
[1] **MAIN**



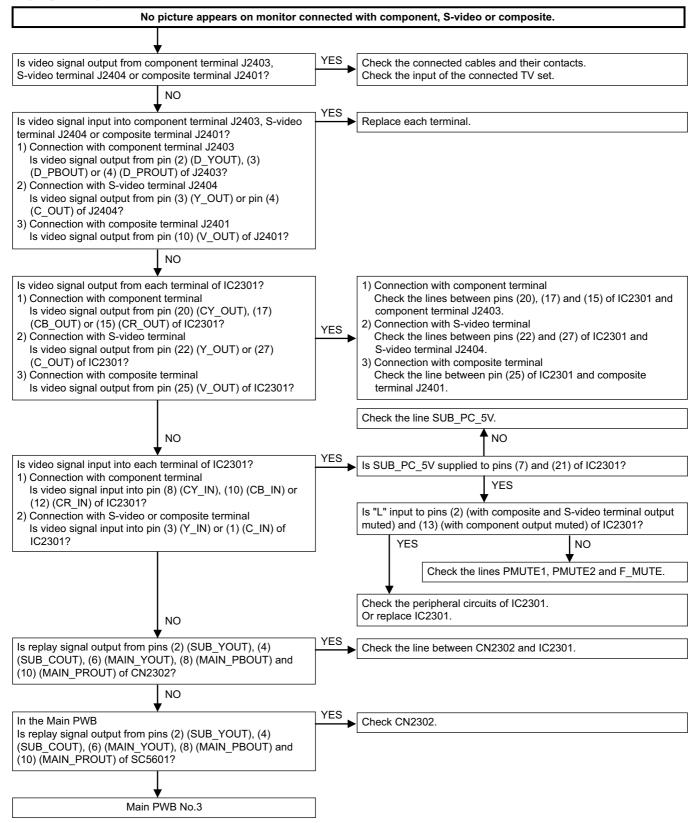


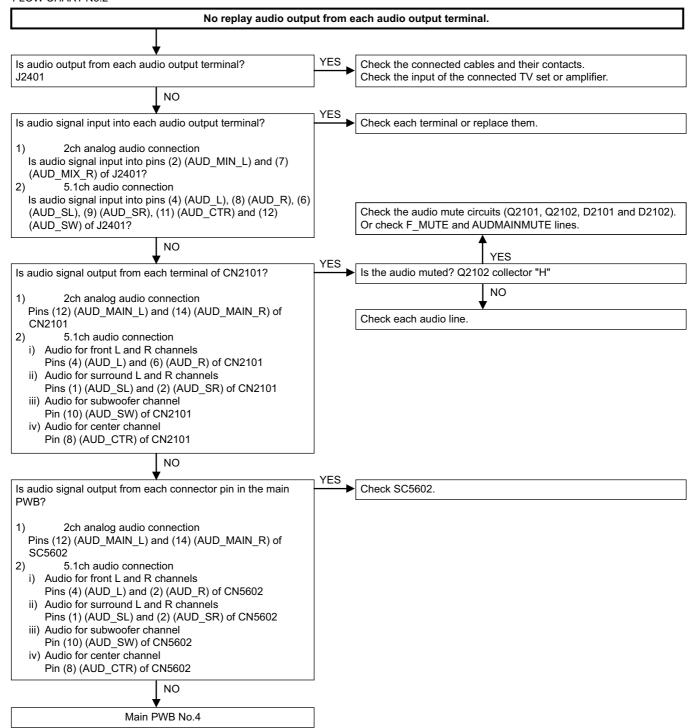






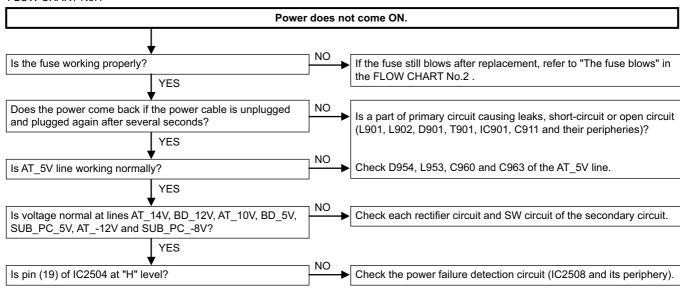
[2] ANALOG



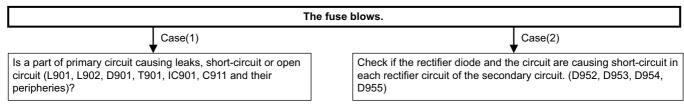


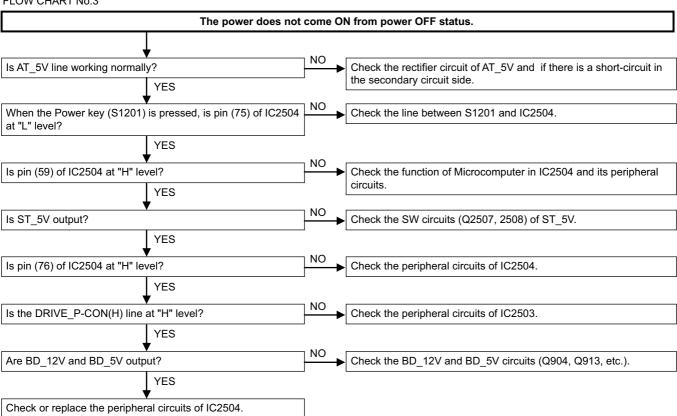
[3] **POWER**

FLOW CHART No.1



FLOW CHART No.2

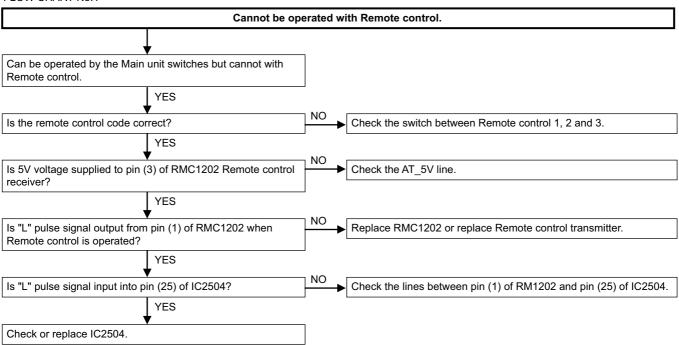




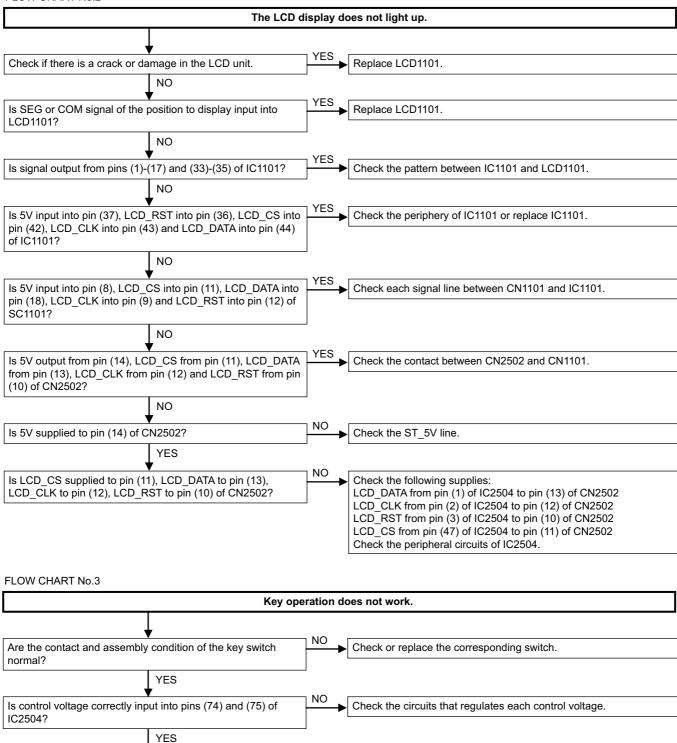
Buzzing sound is generated near the power circuit.

Check if the rectifier diode and the circuit are causing short-circuit, or if the shunt regulator circuit is defective, in each rectifier circuit of the secondary circuit (around D952, 953, 954, 955 and 951).

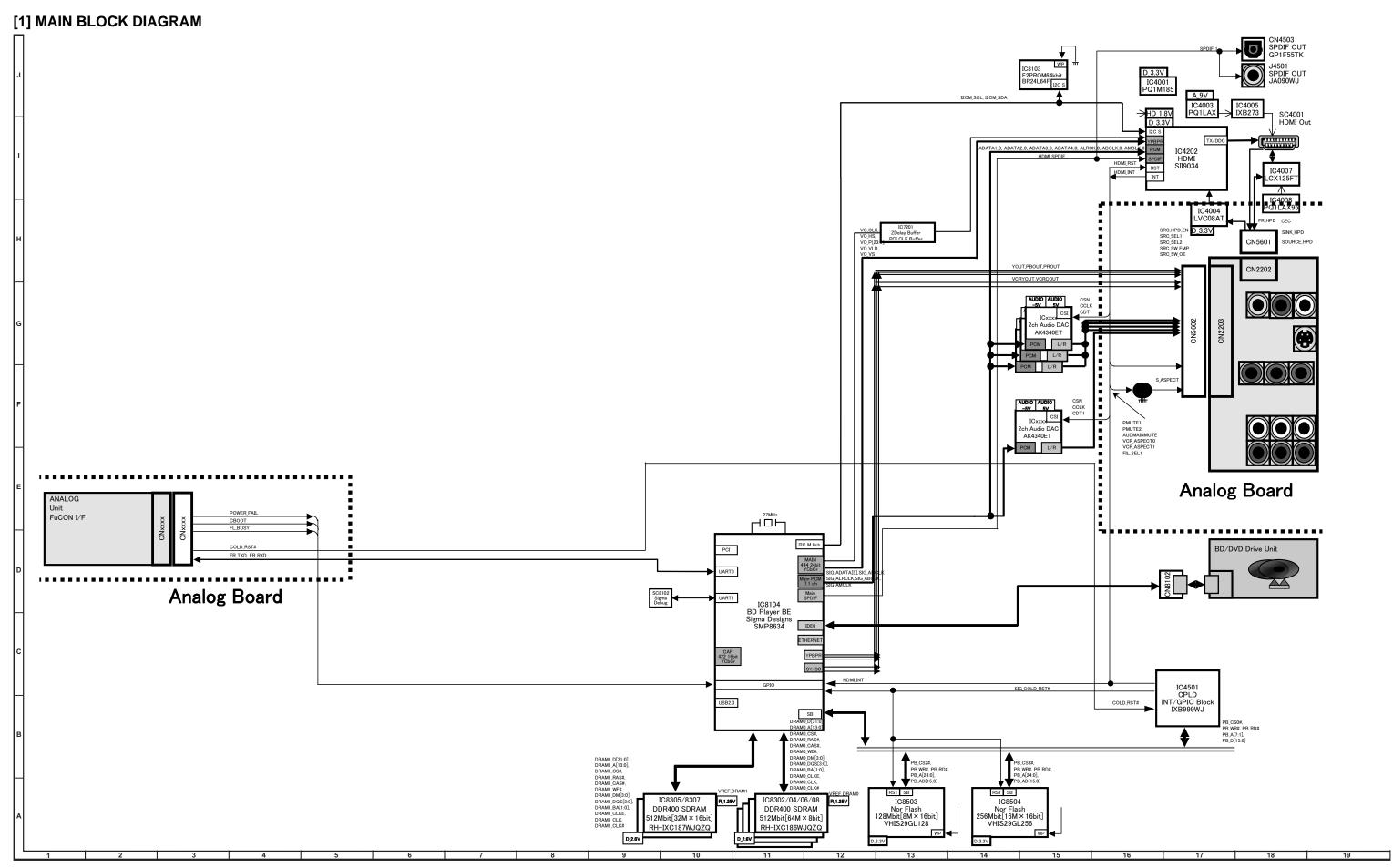
[4] OPERATION



Check or replace the peripheral circuits of IC2504.



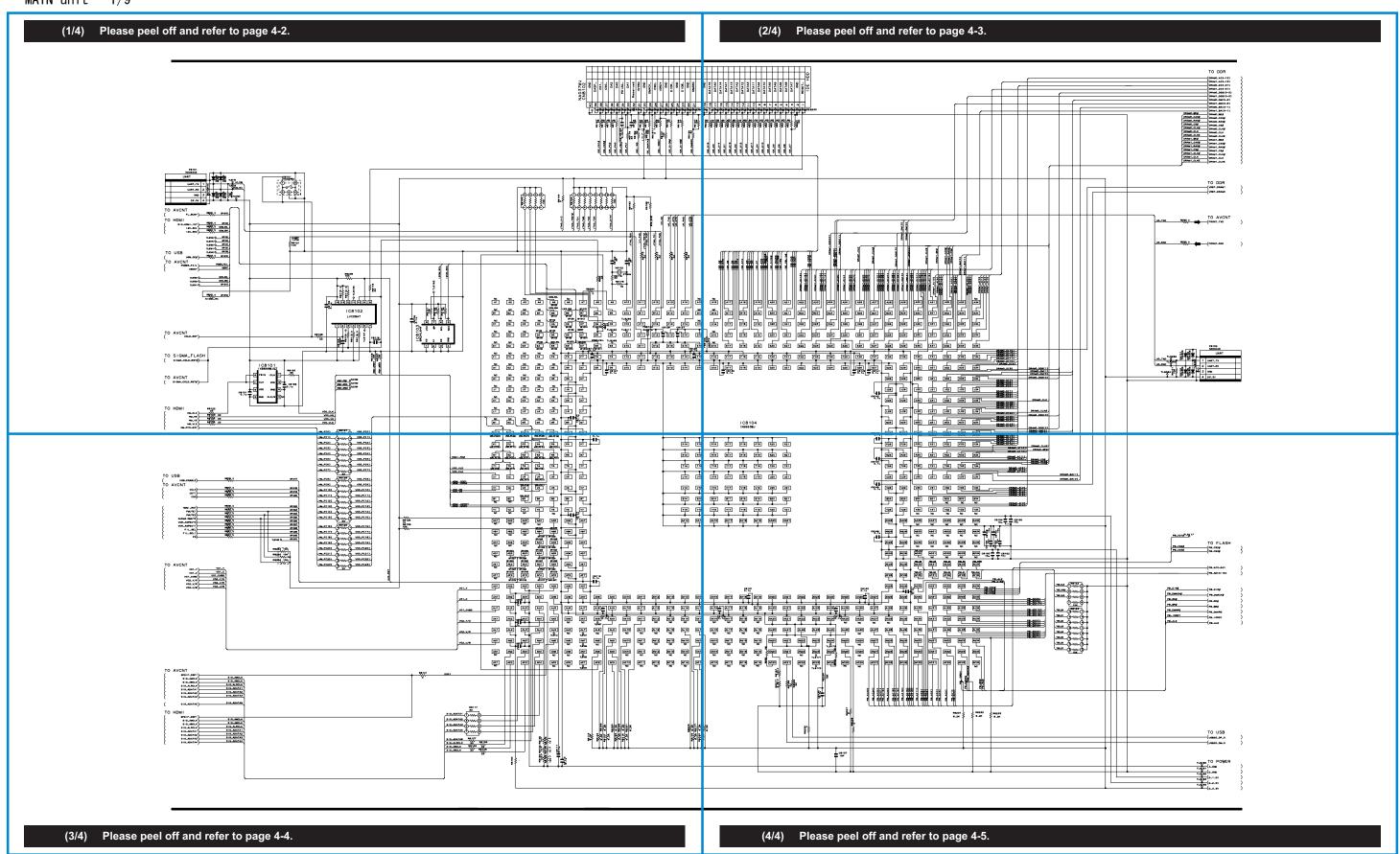
CHAPTER 3. BLOCK DIAGRAMS

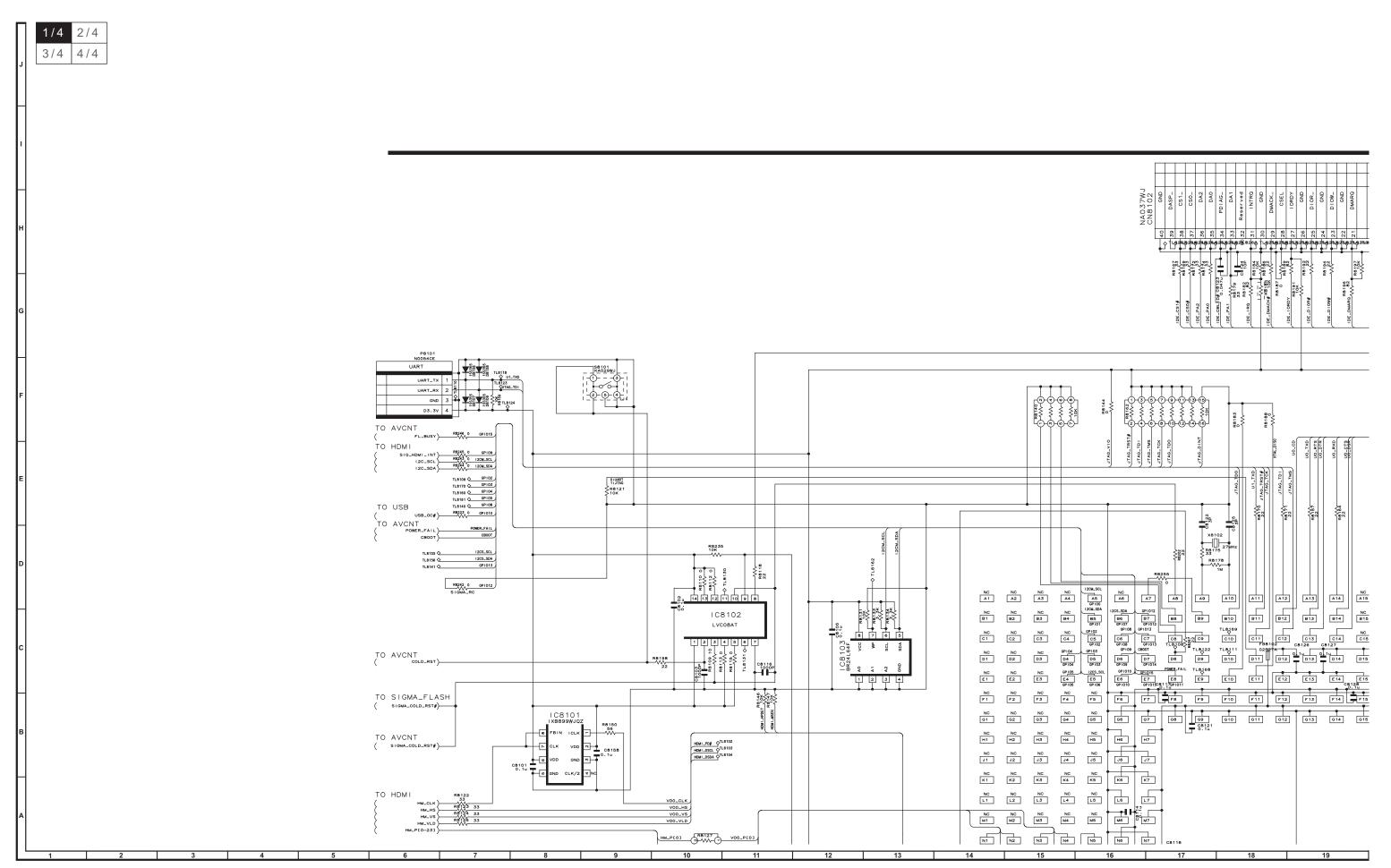


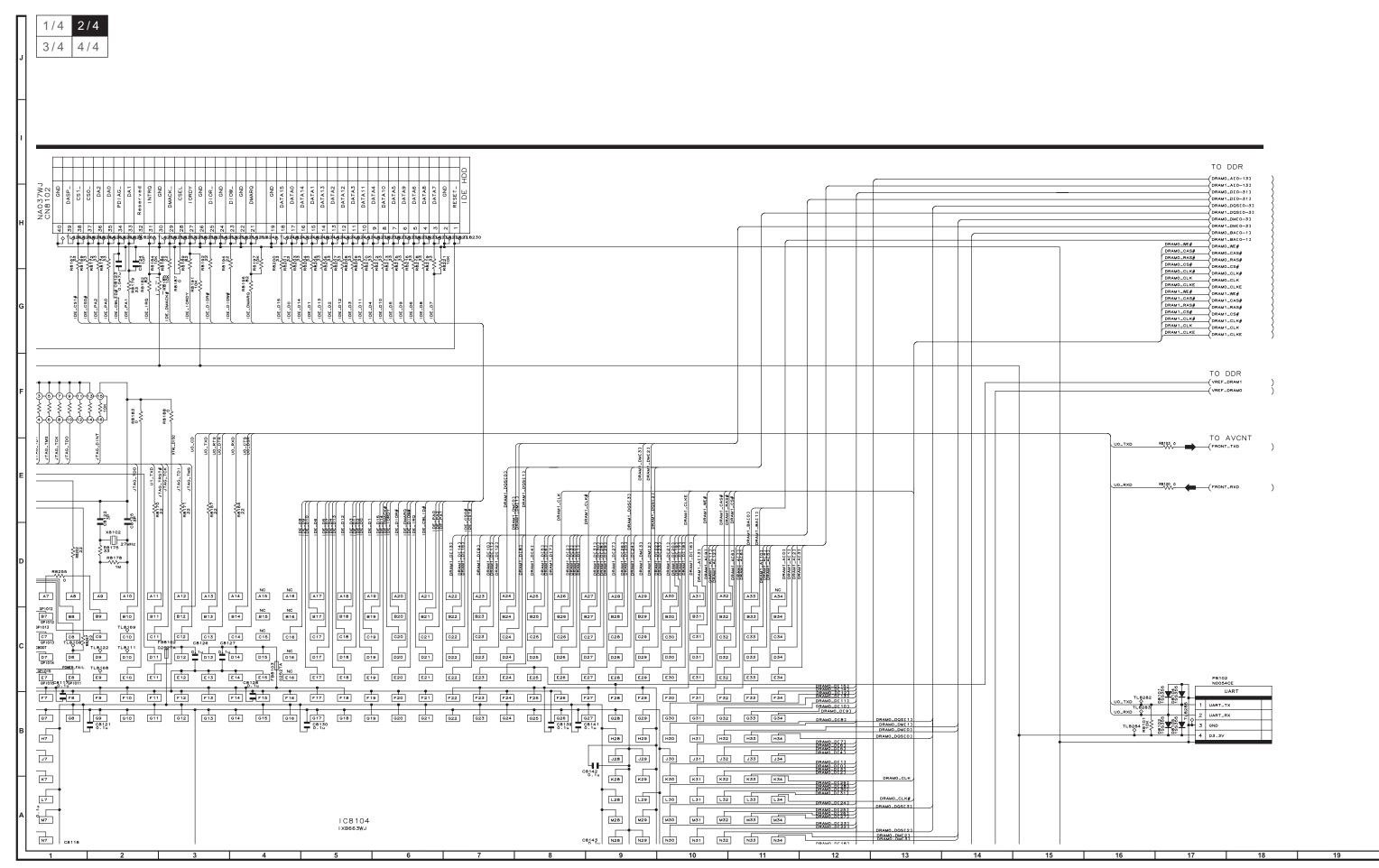
CHAPTER 4. SCHEMATIC DIAGRAMS

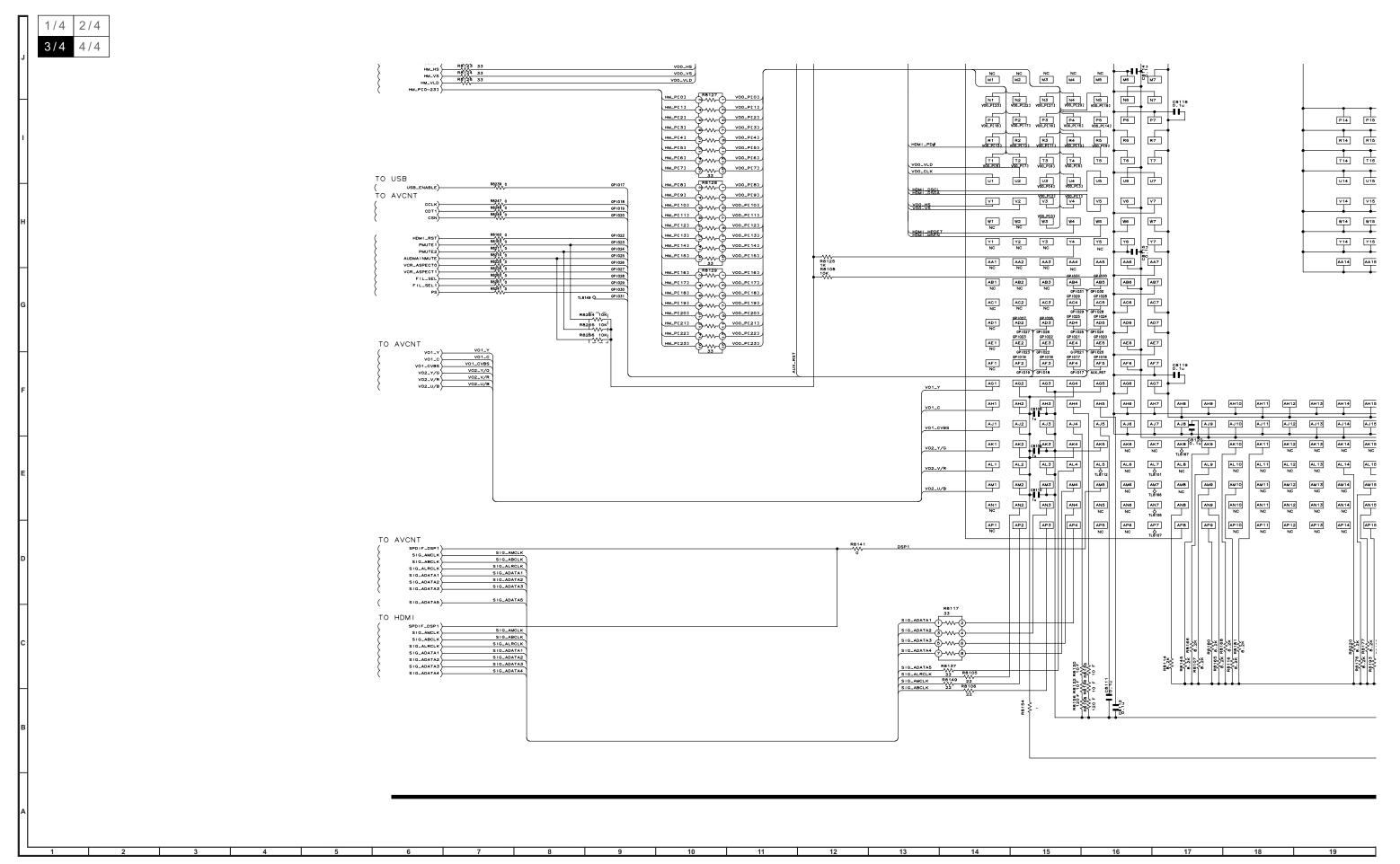
[1] MAIN unit

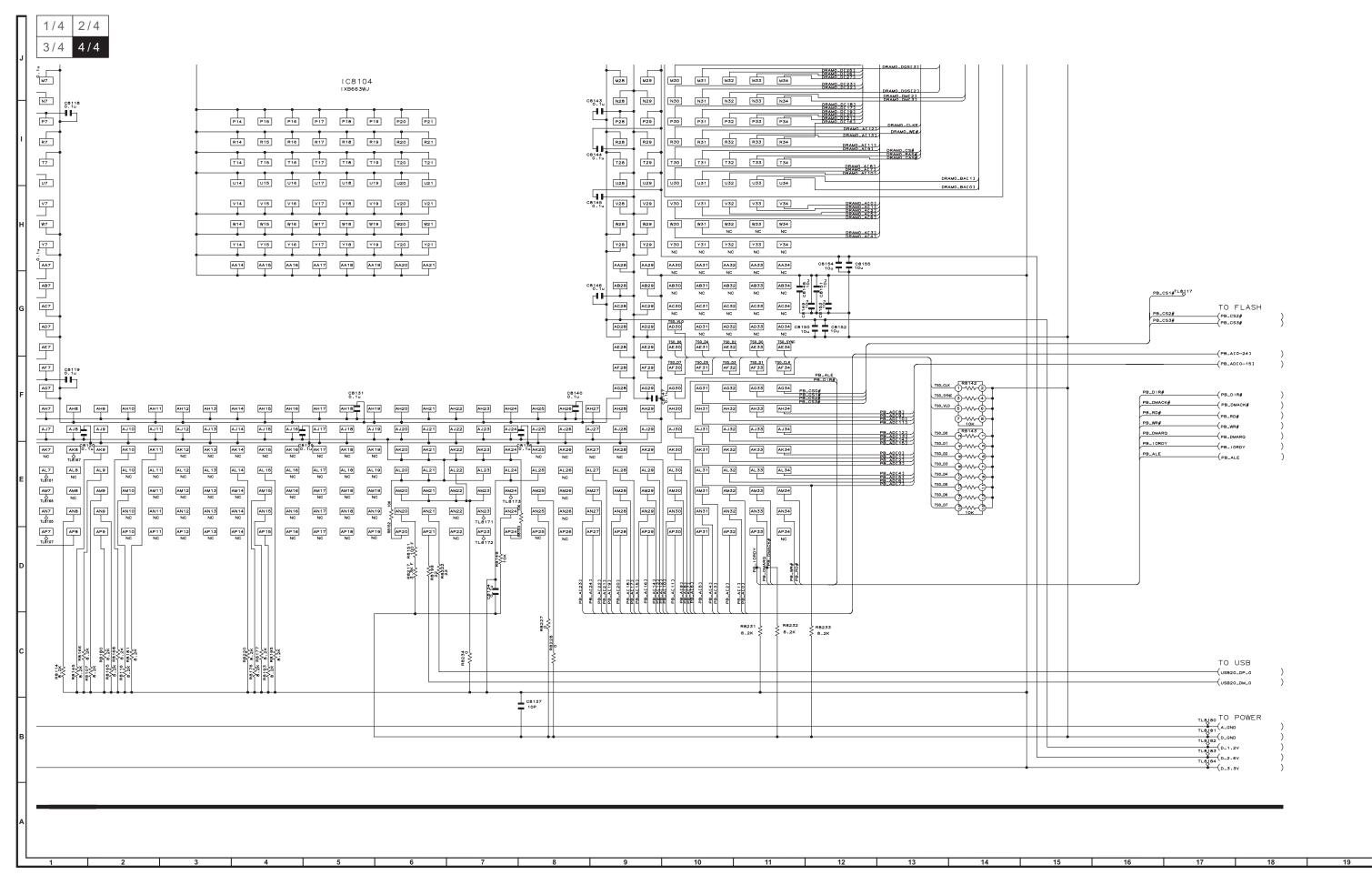
MAIN unit - 1/9



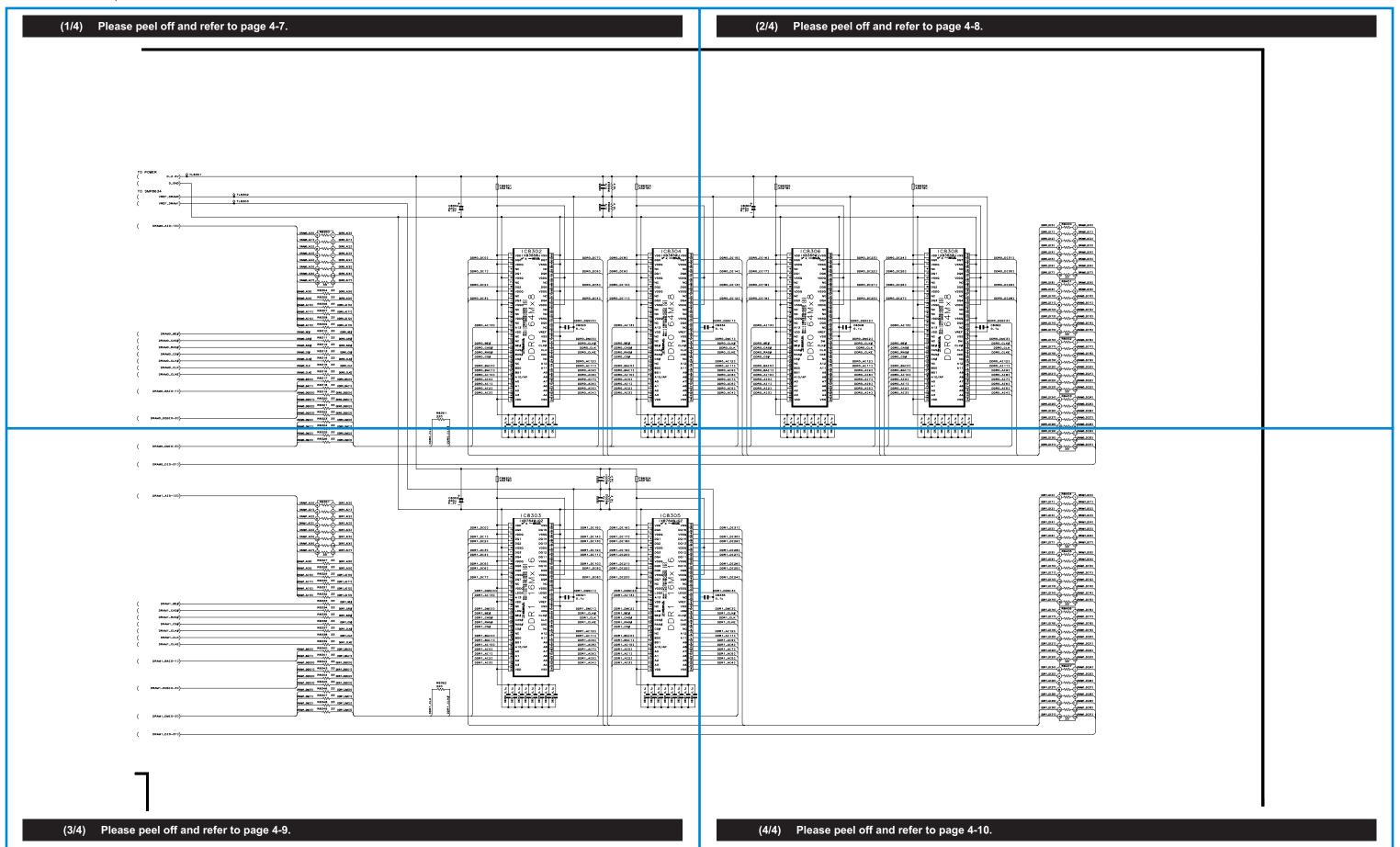


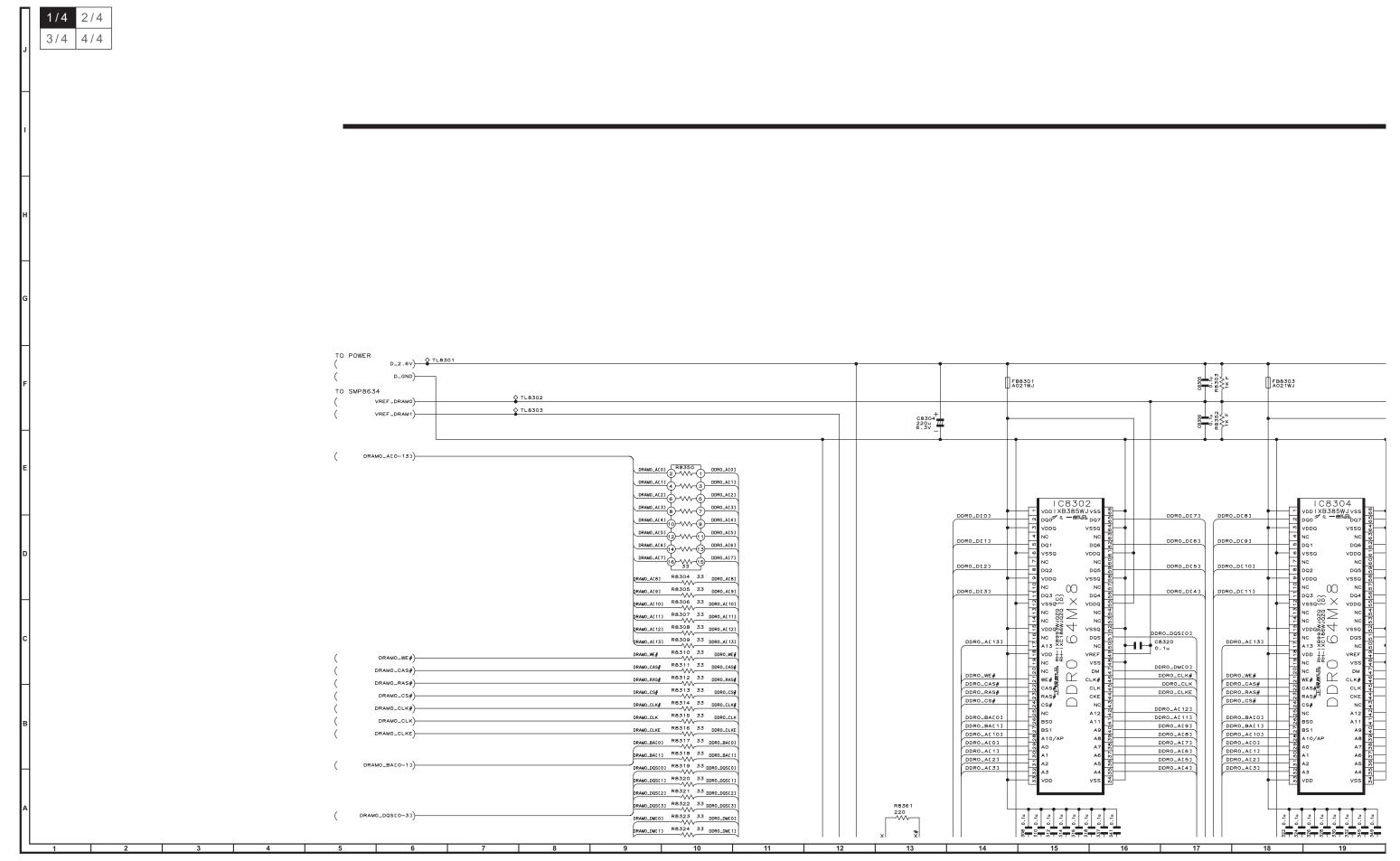


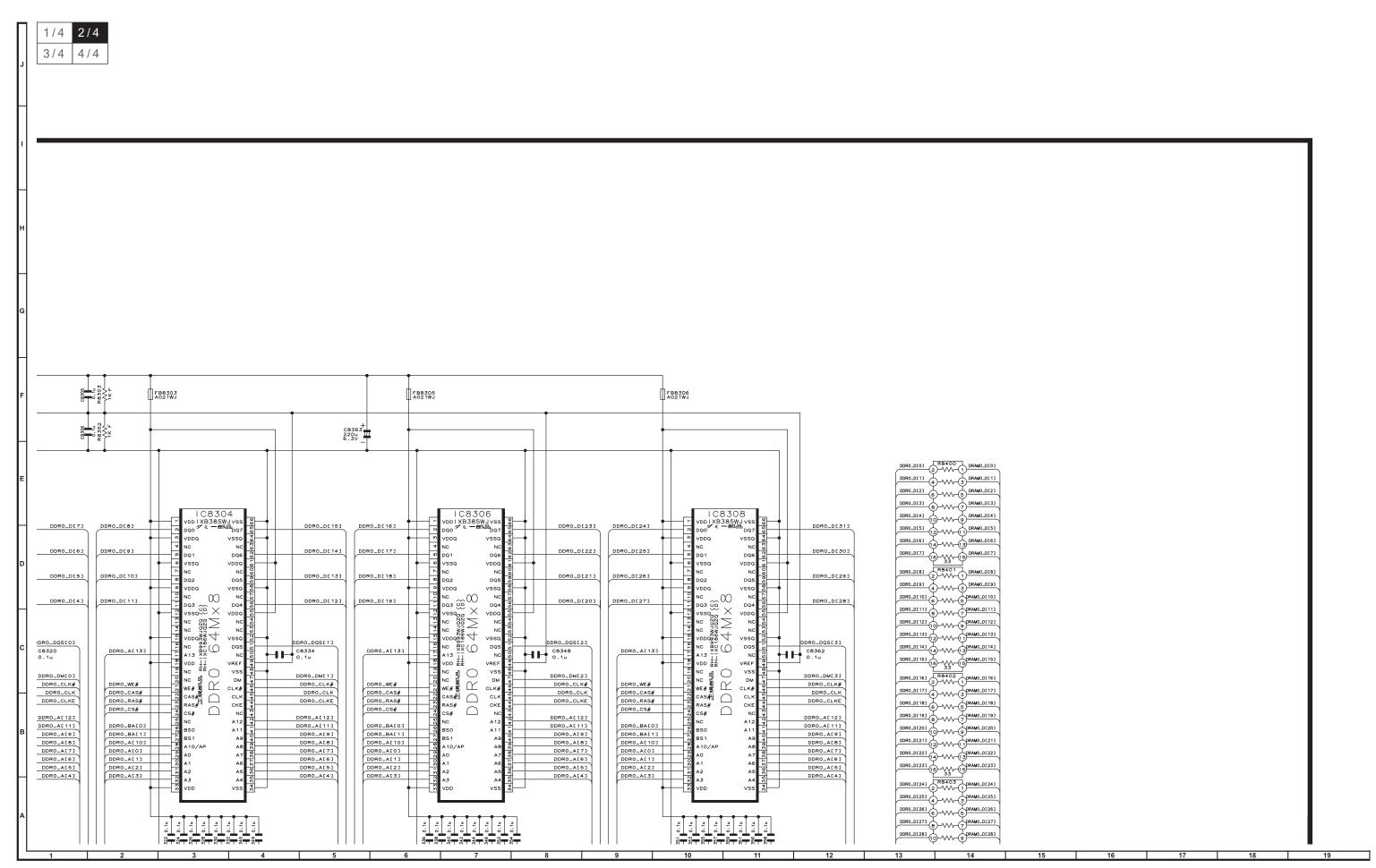


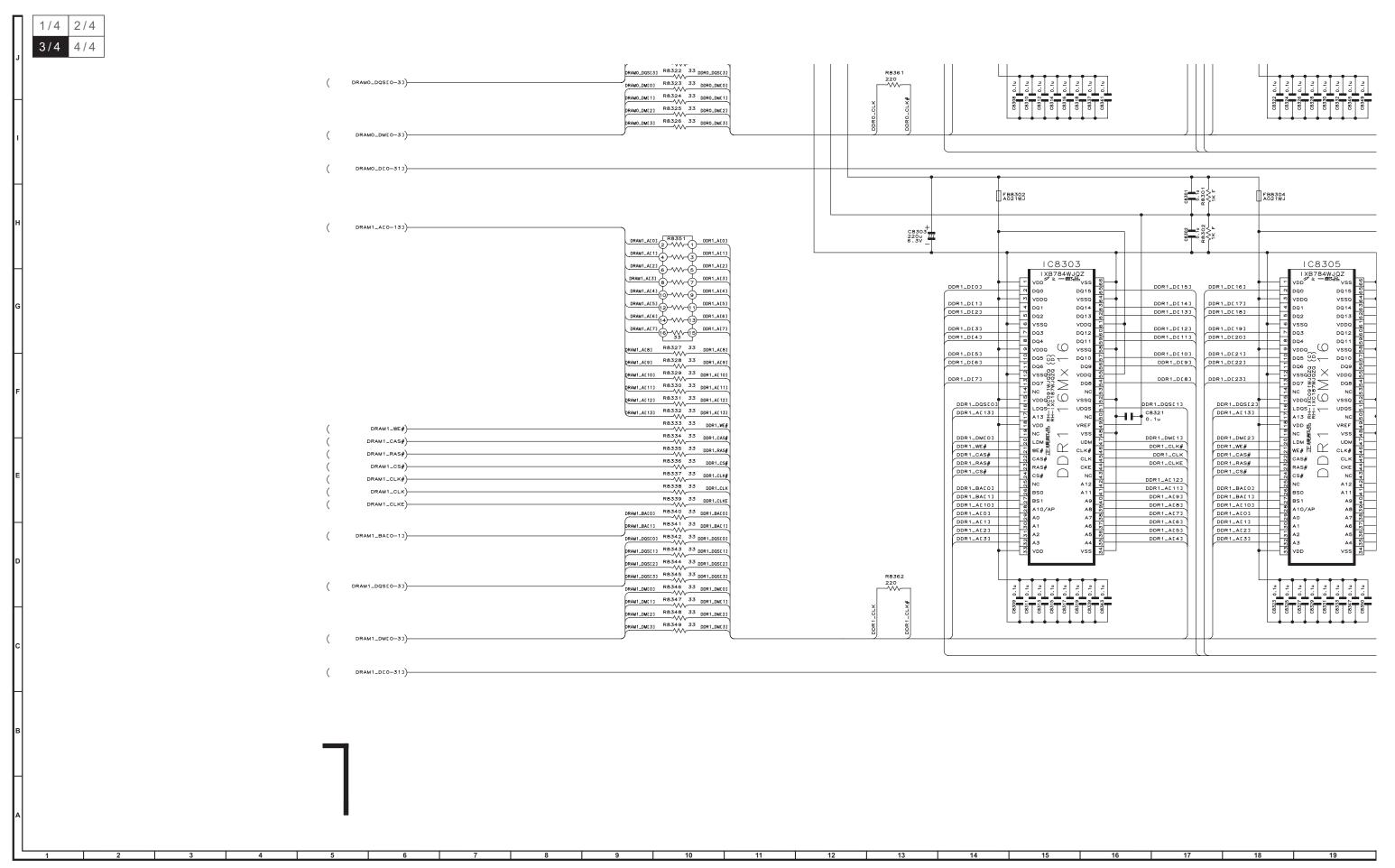


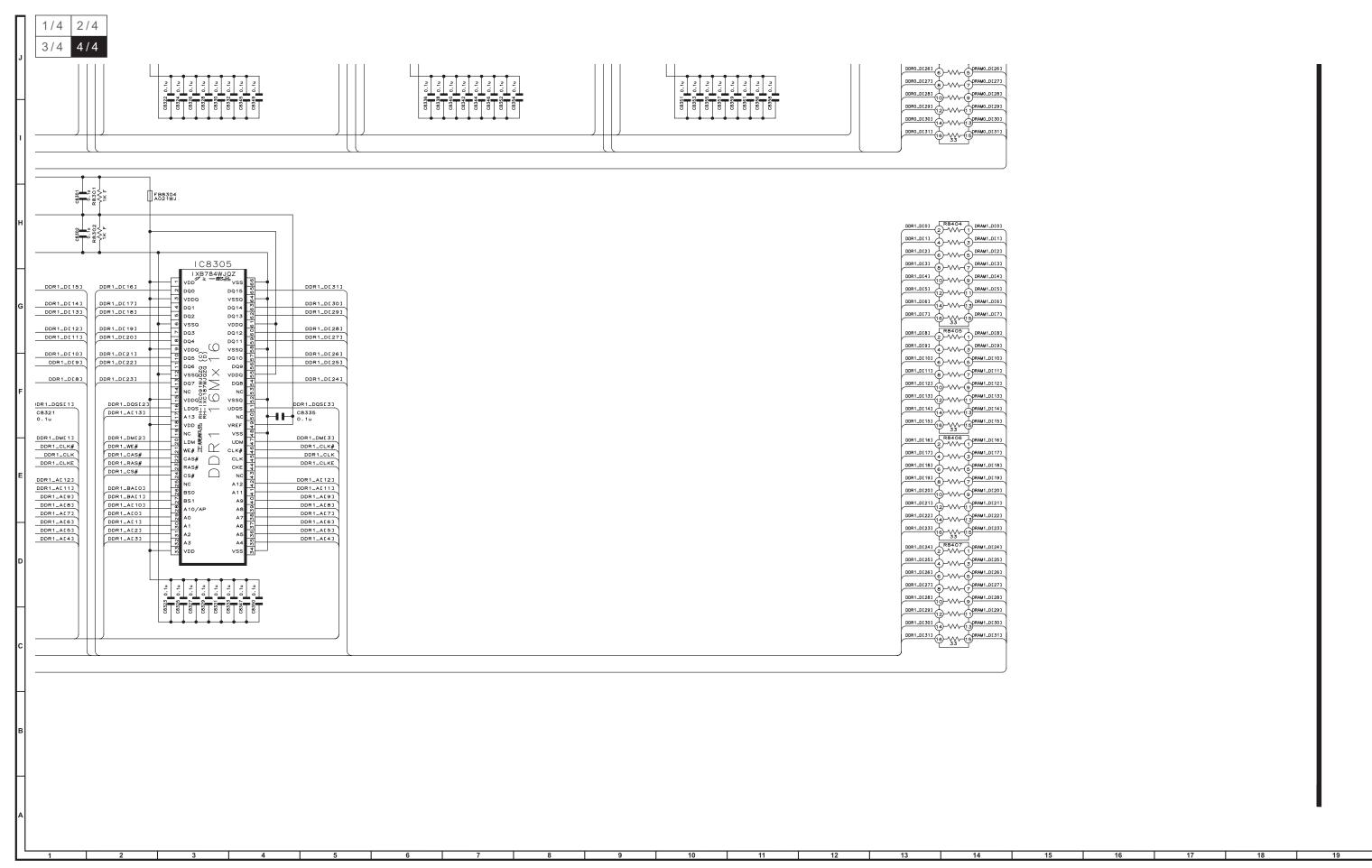
MAIN unit -2/9

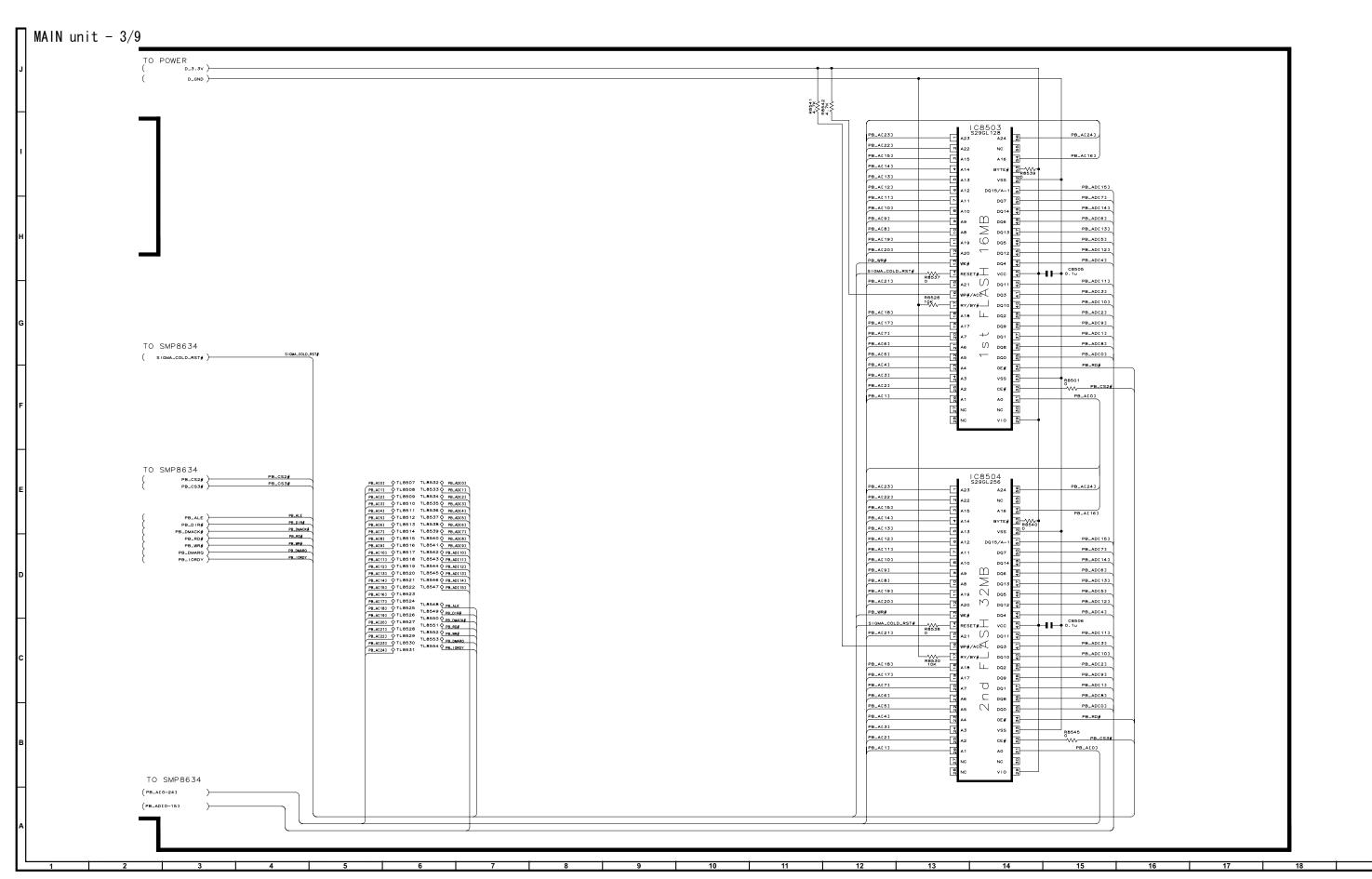


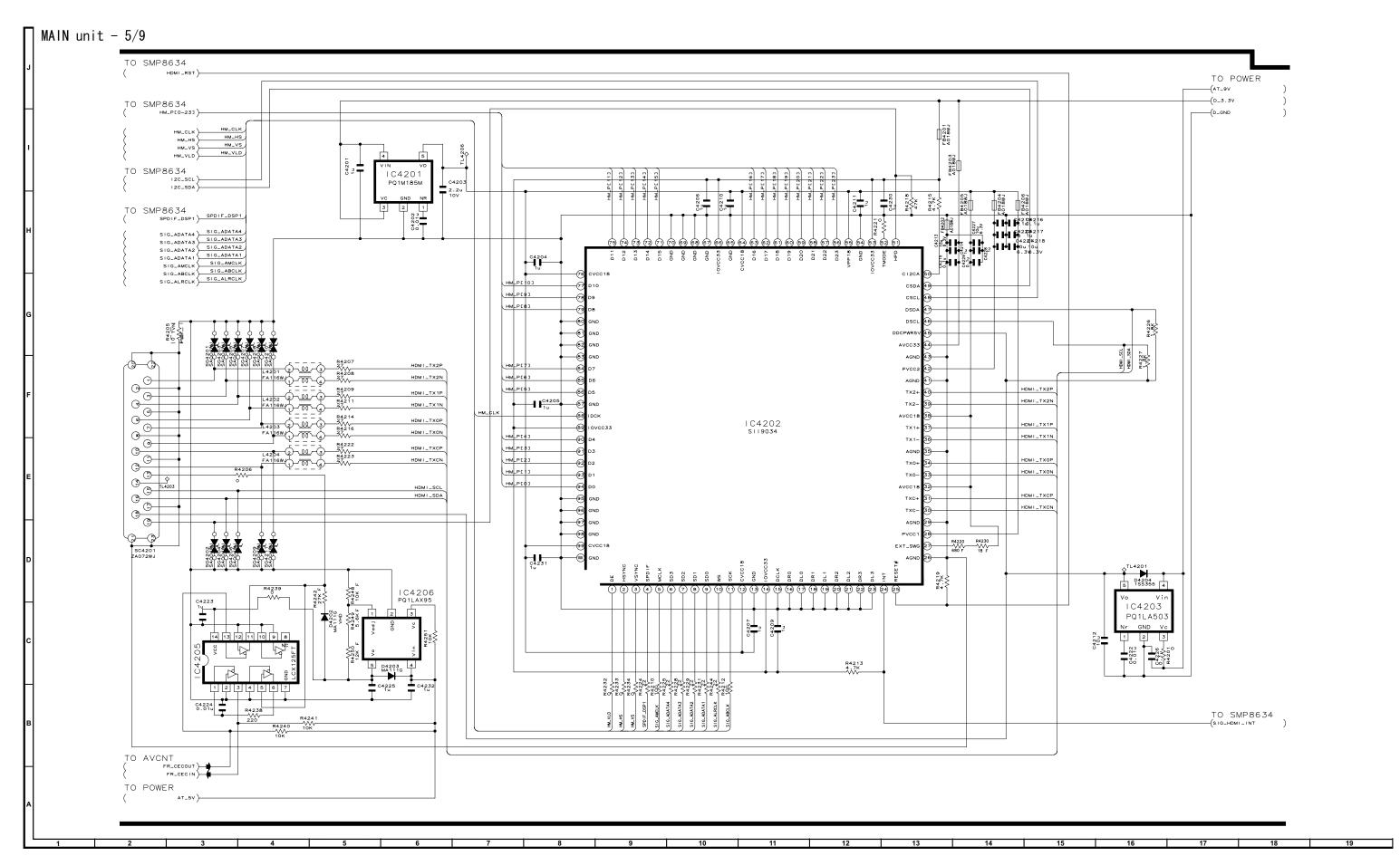




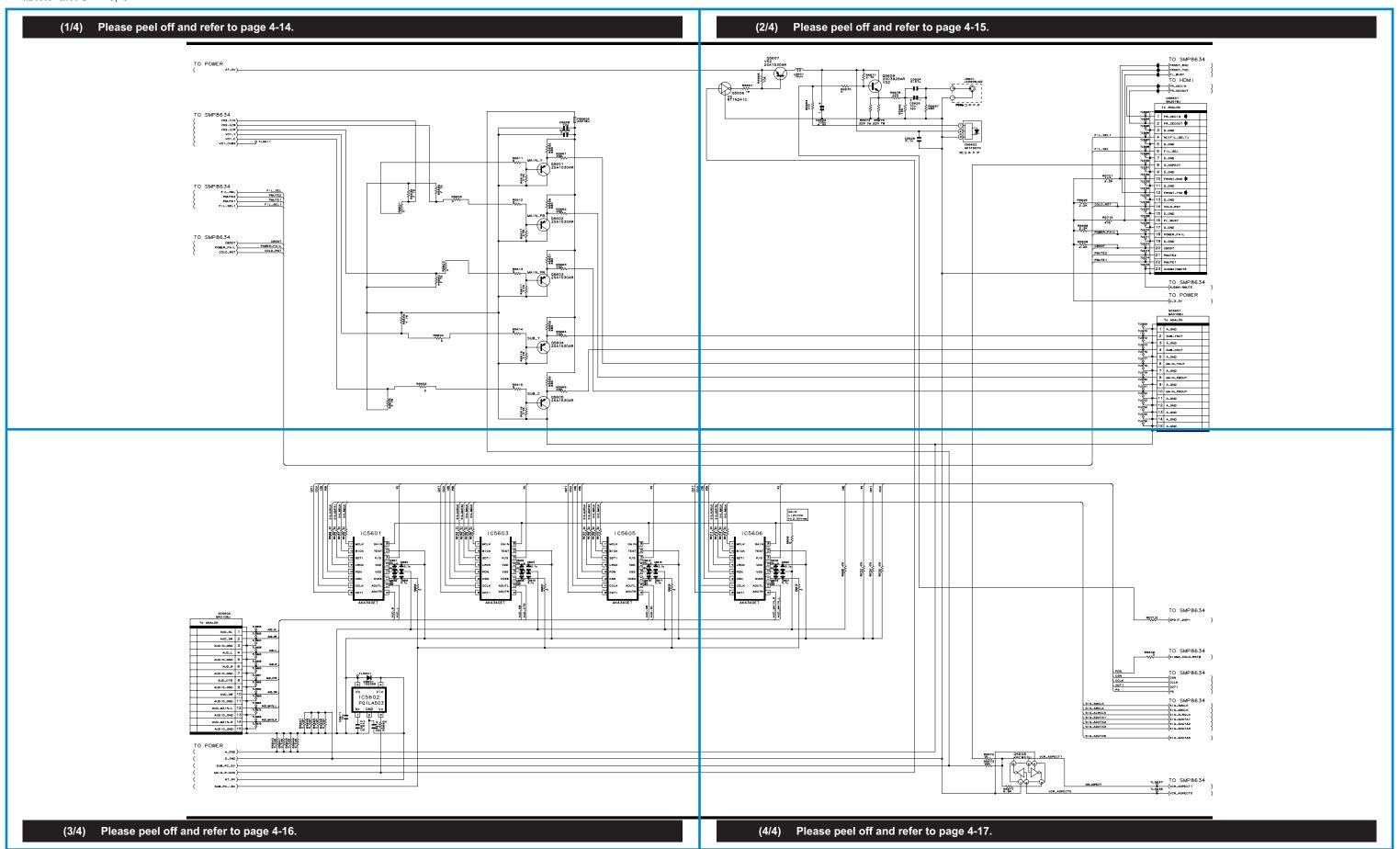


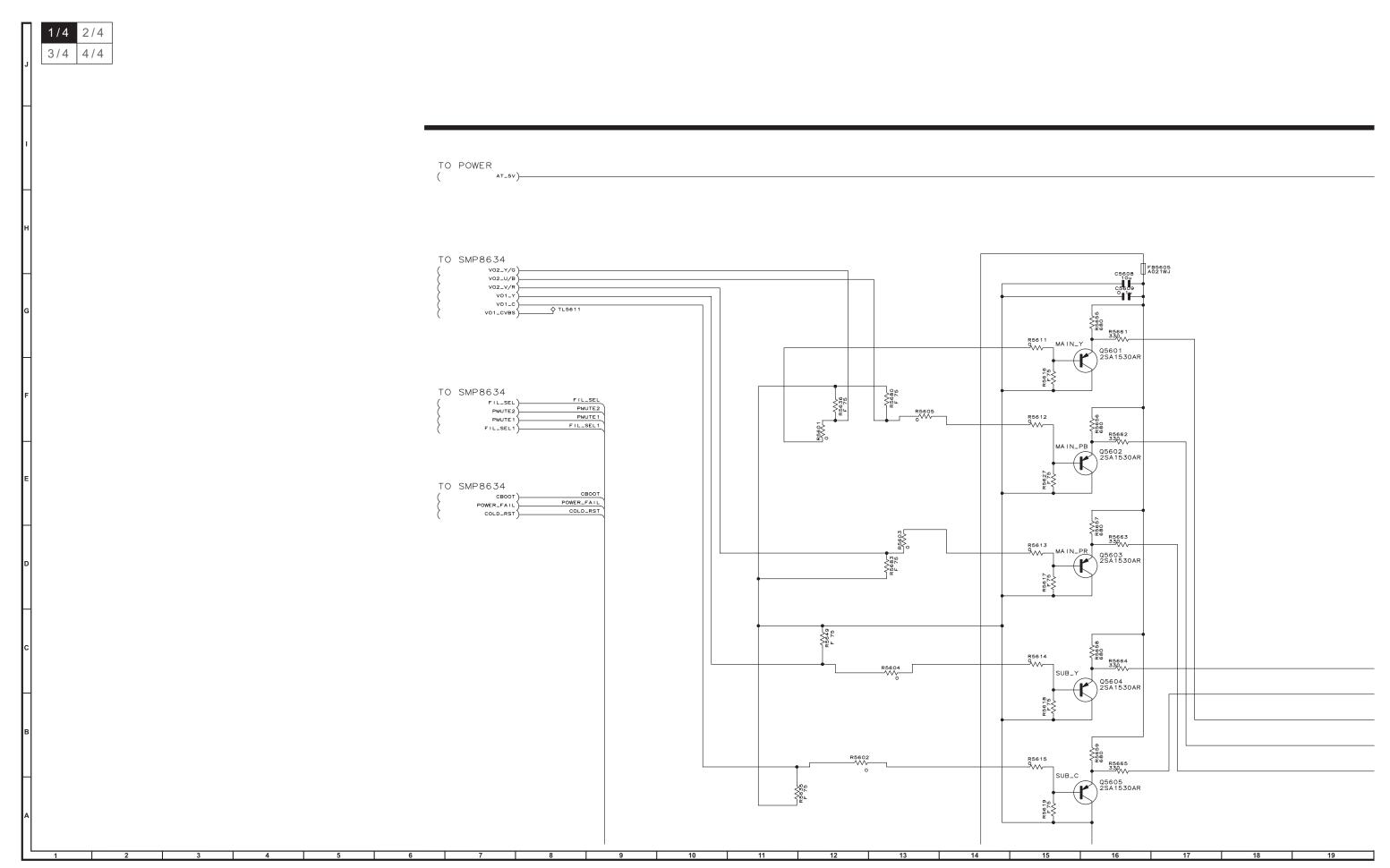


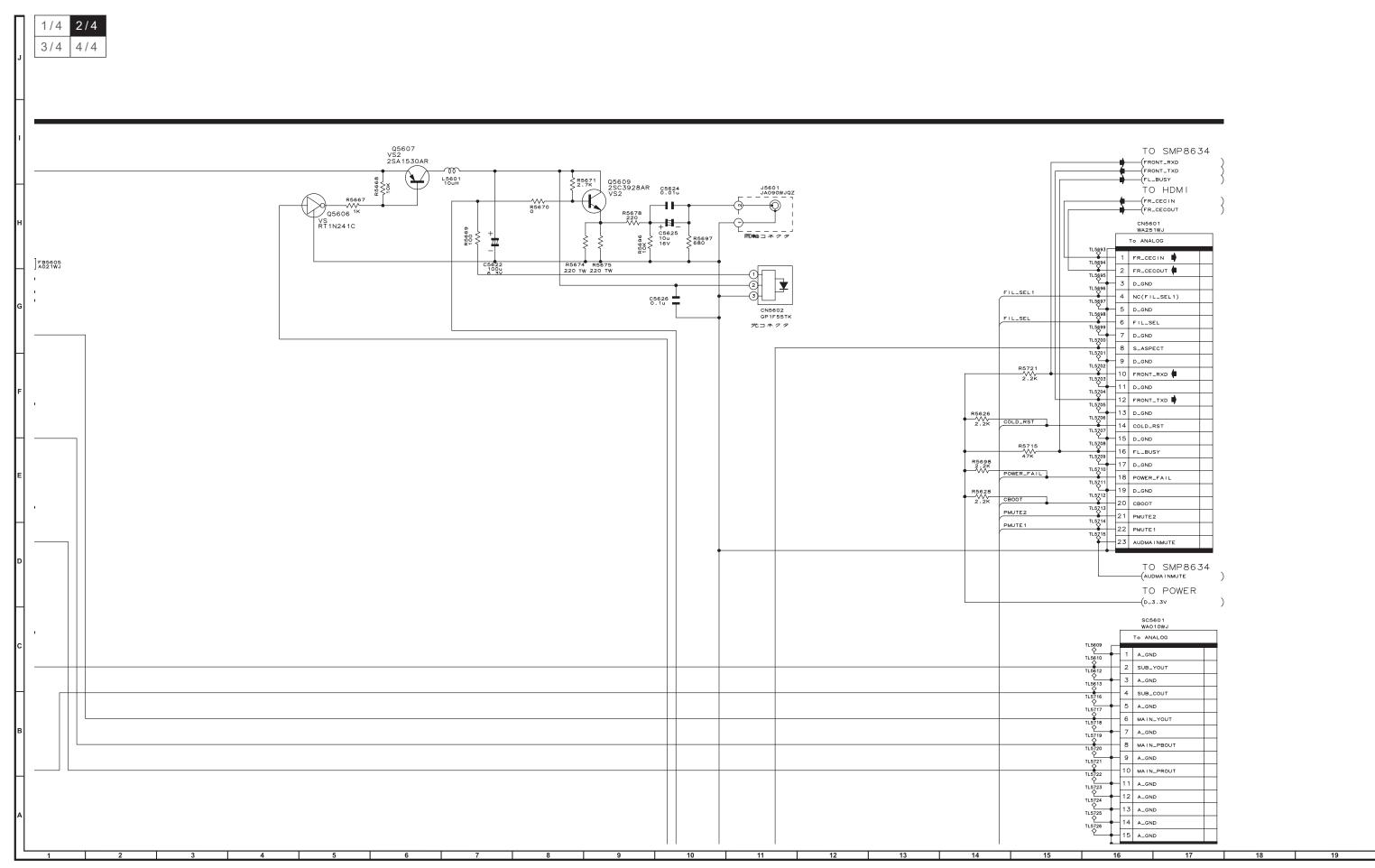


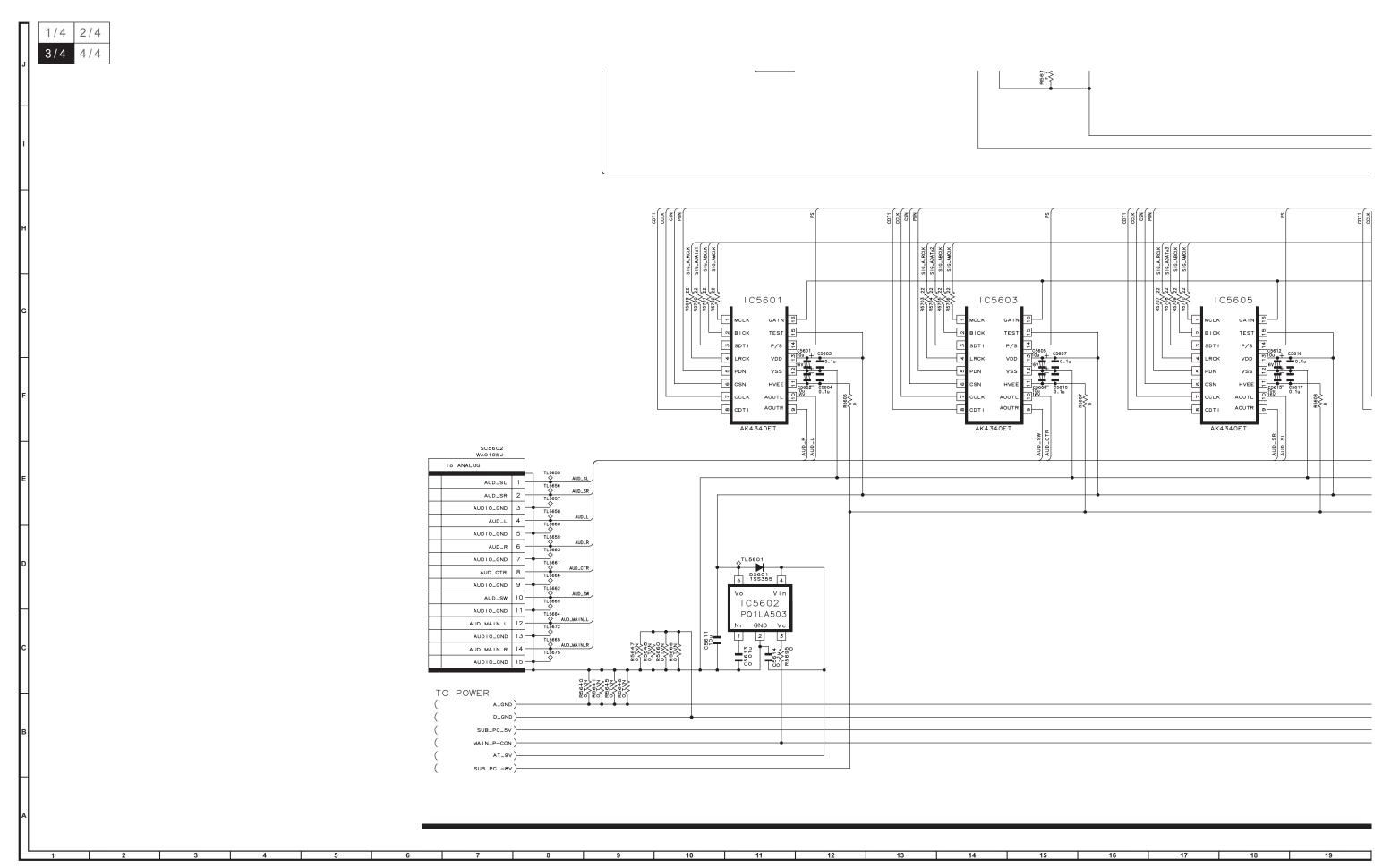


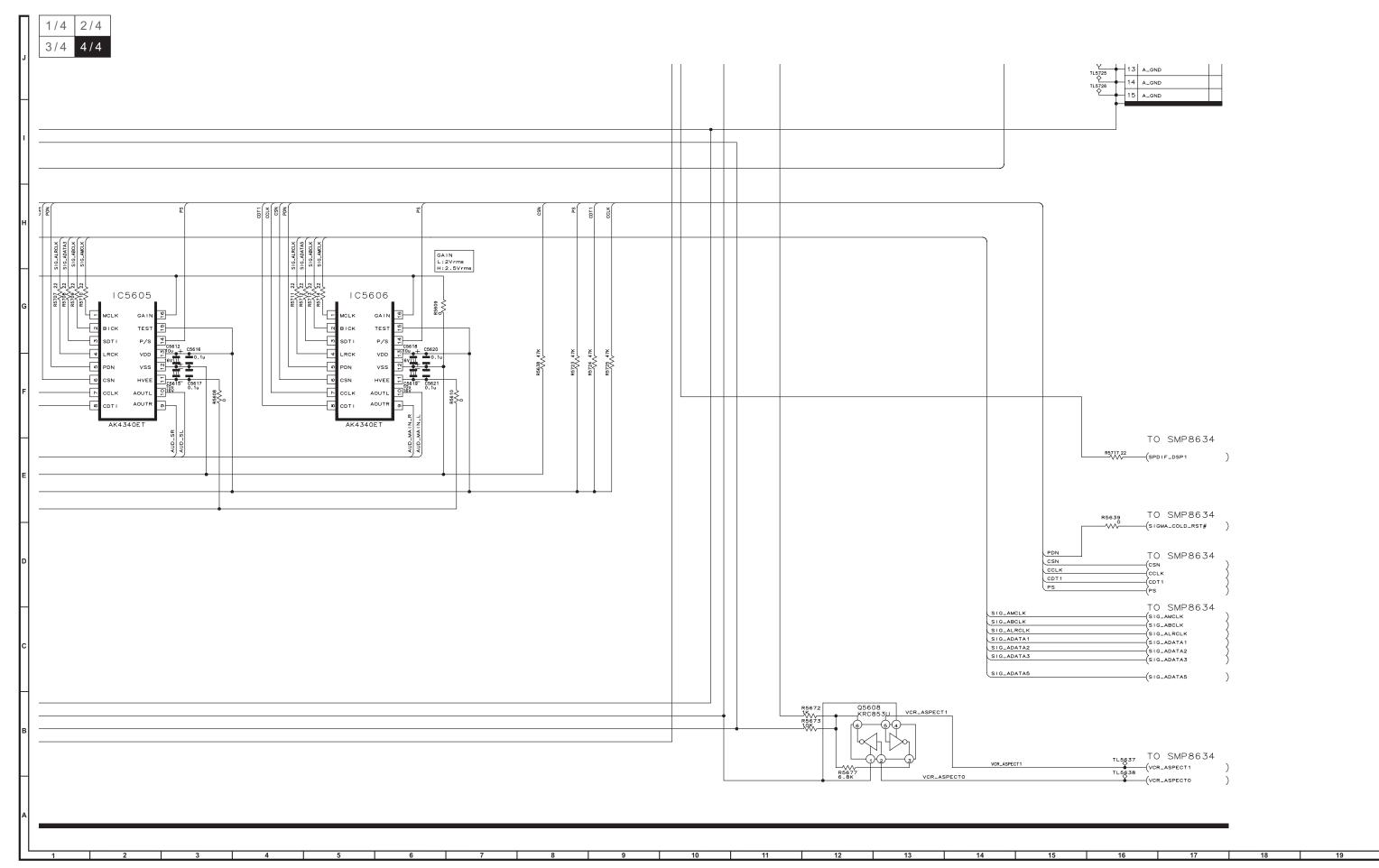
MAIN unit - 6/9

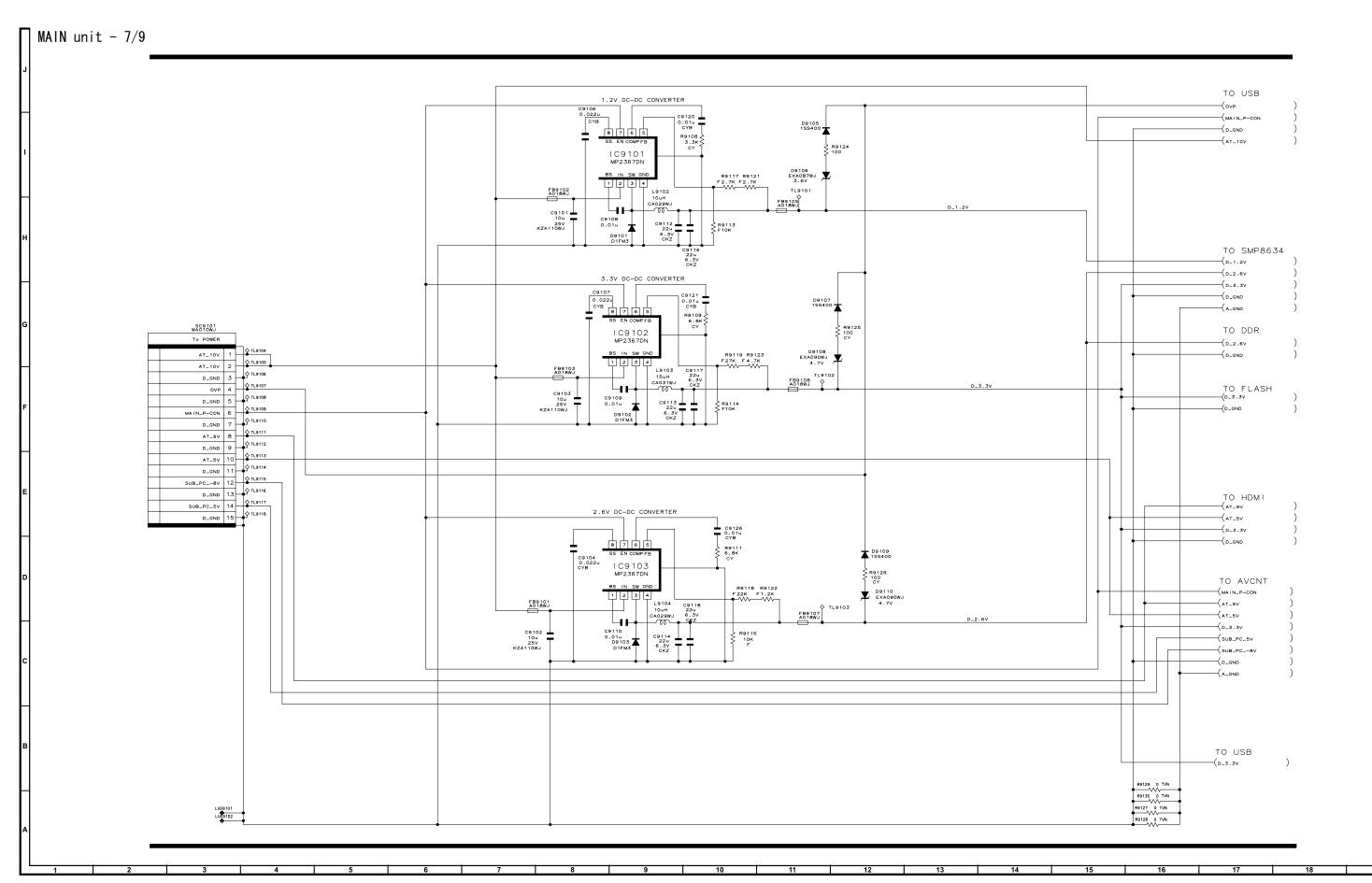


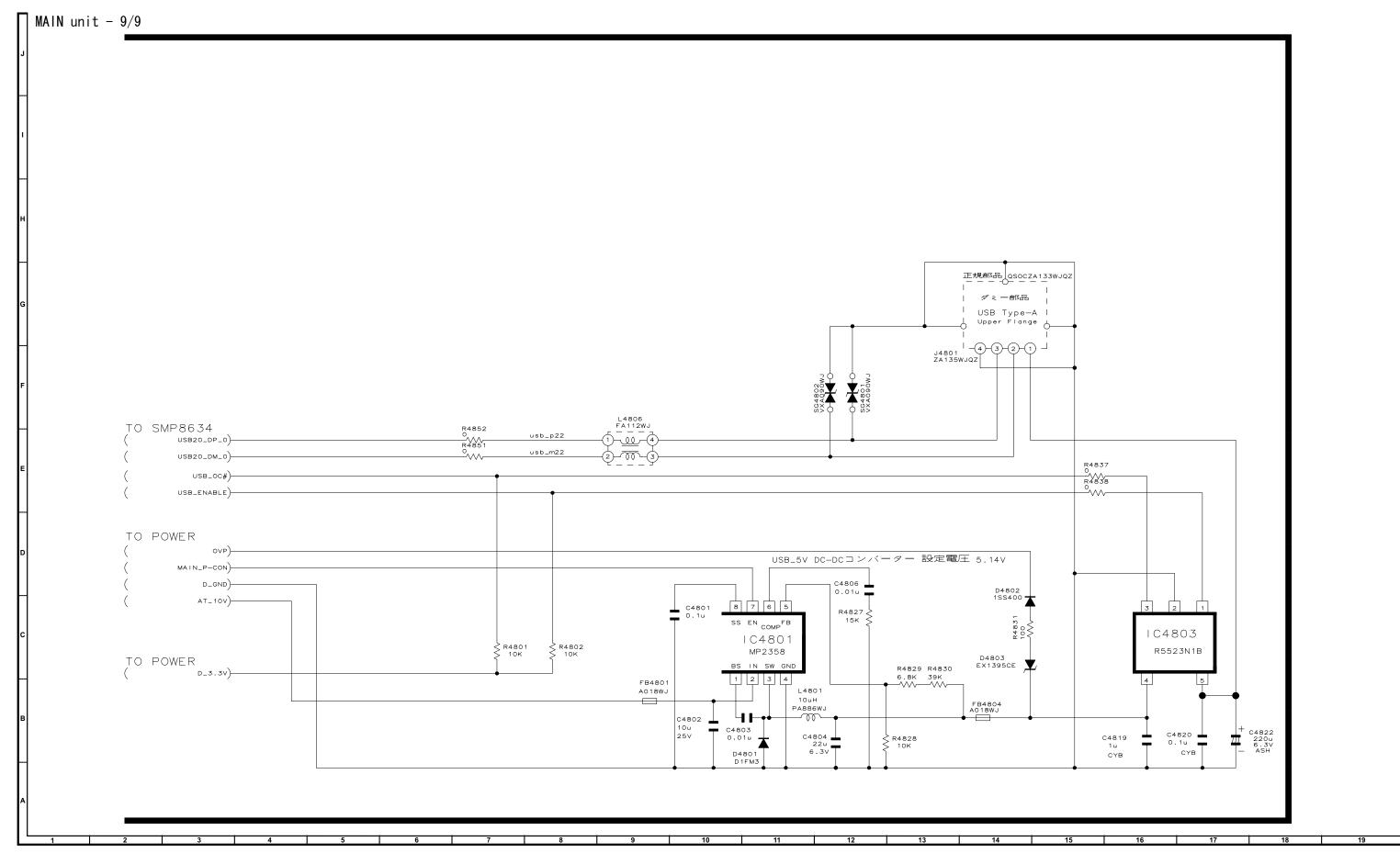




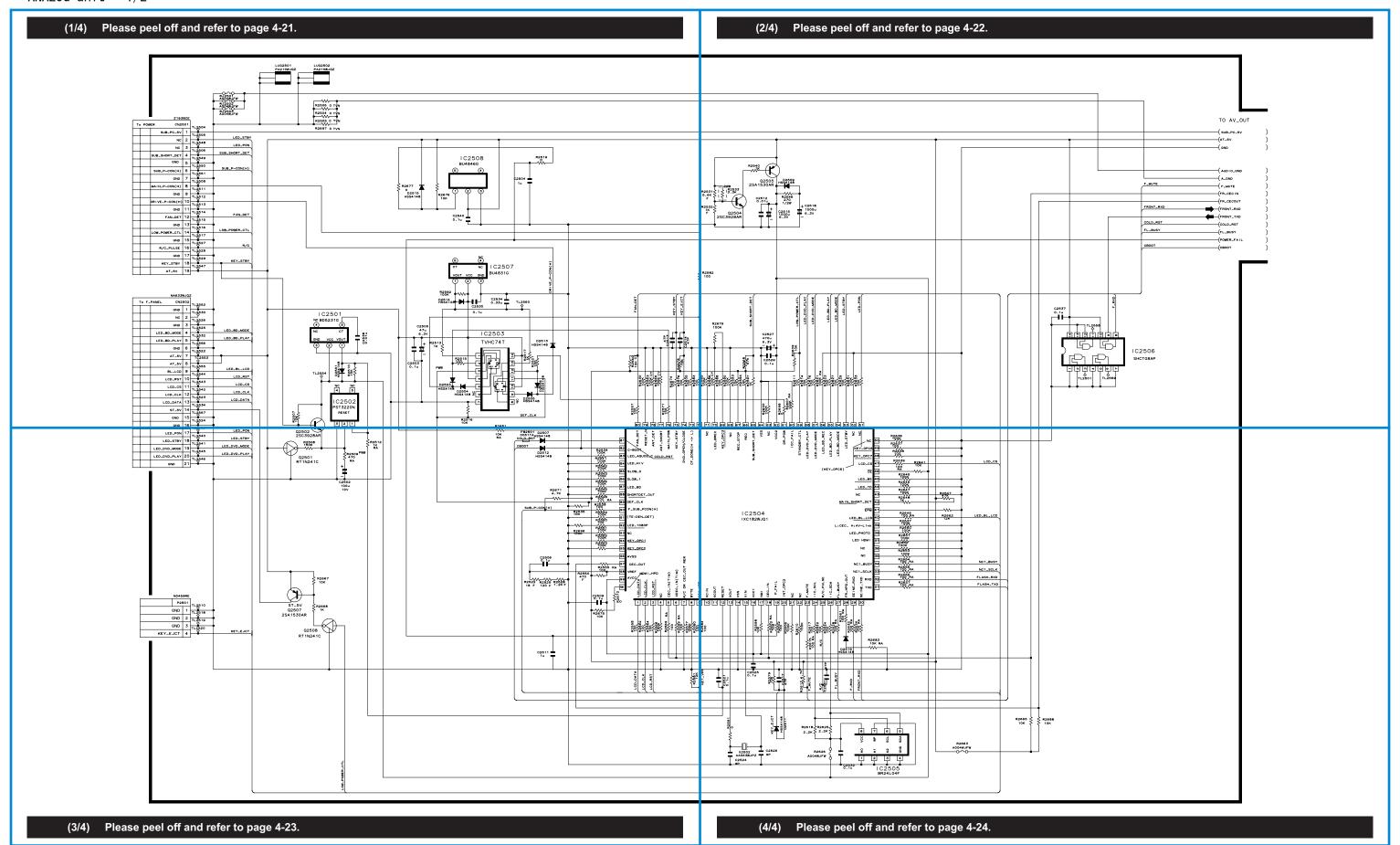


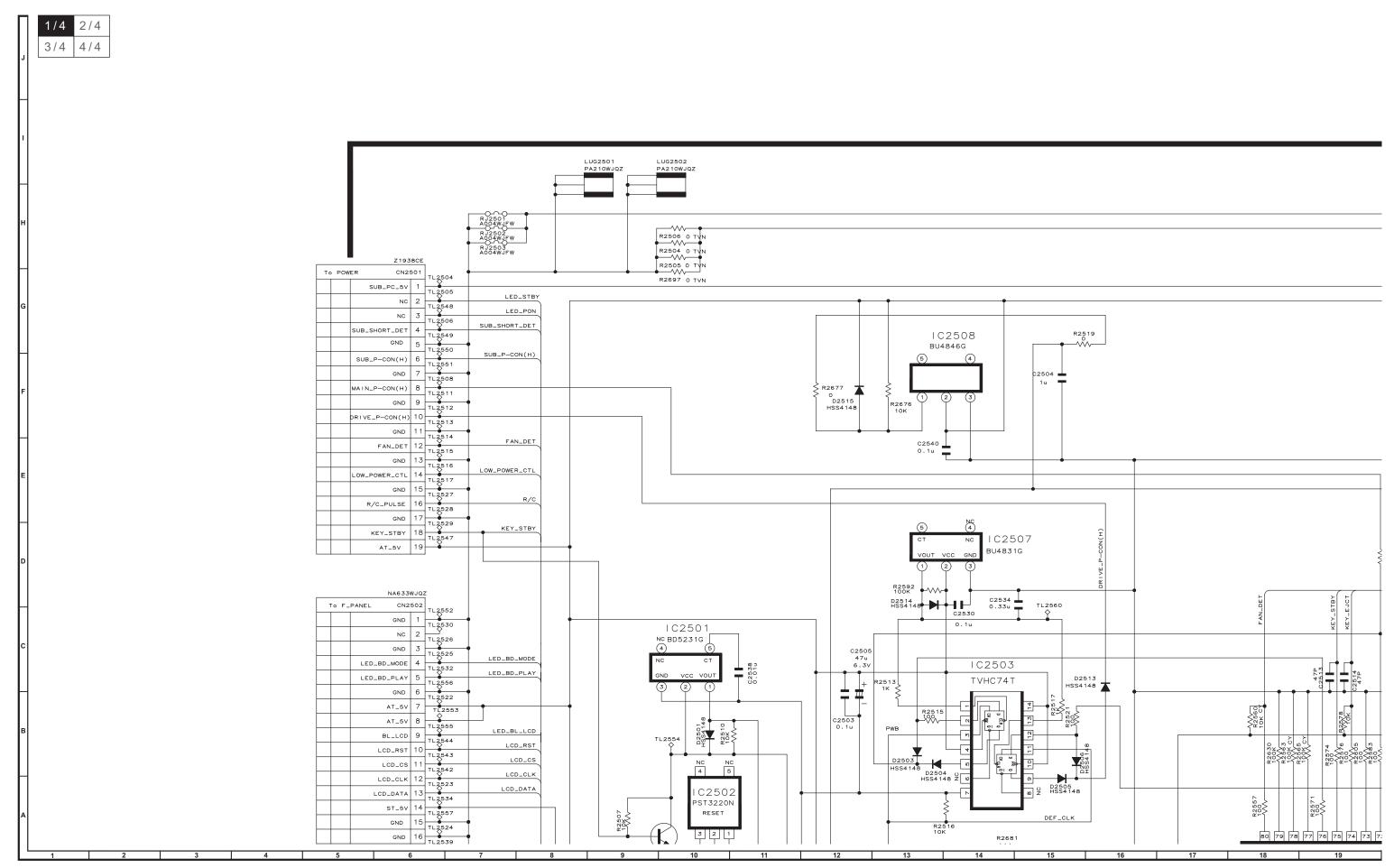


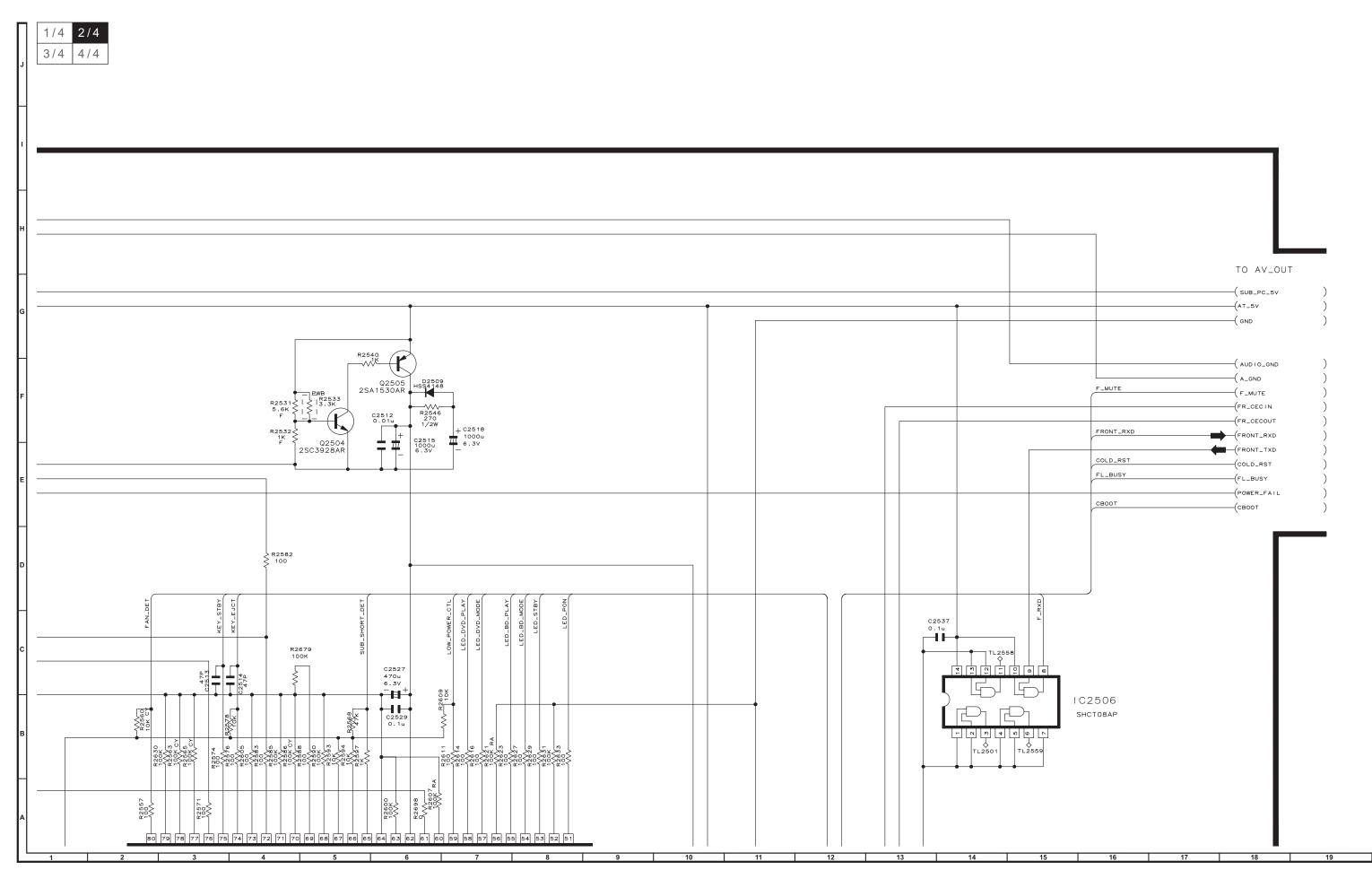


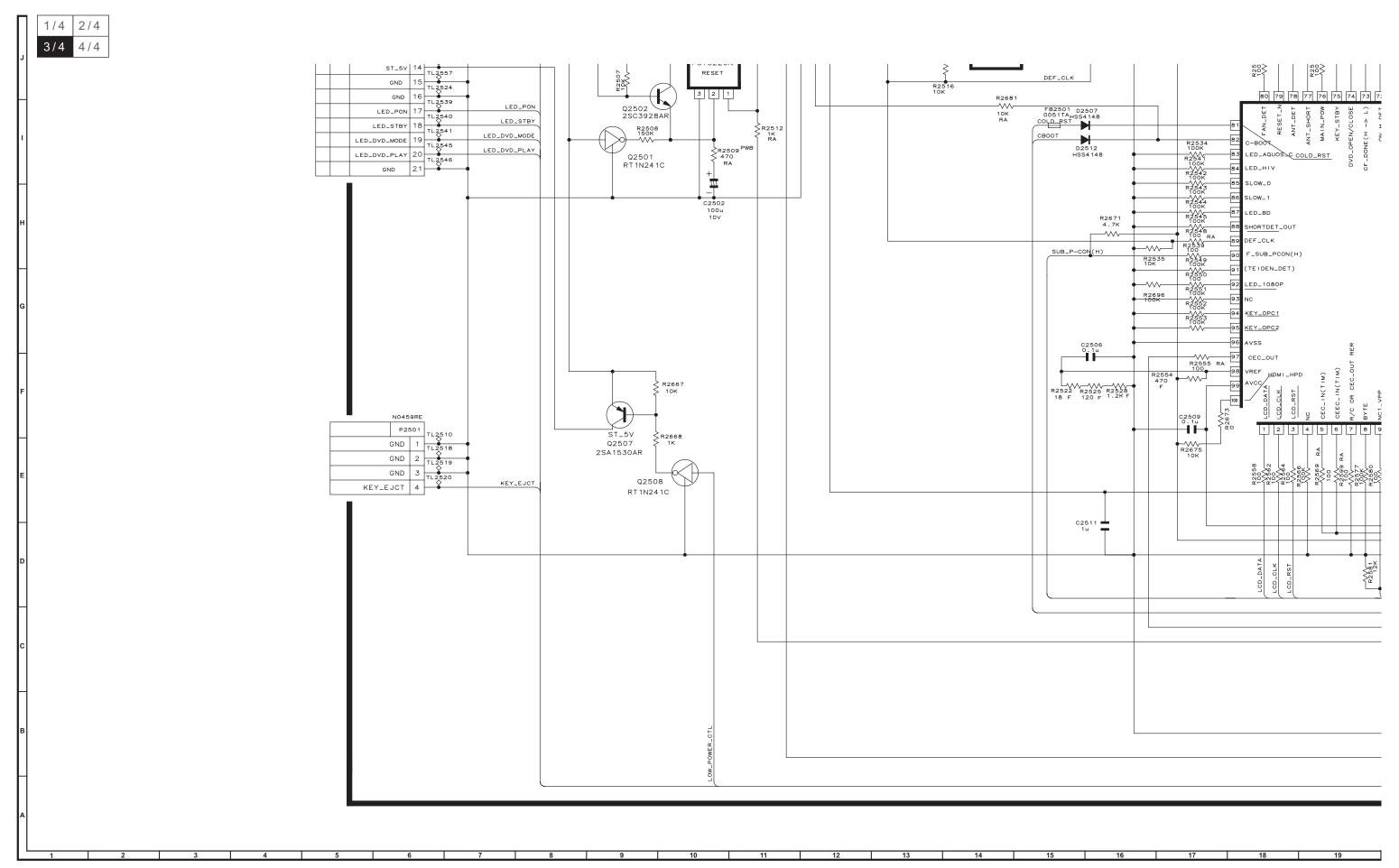


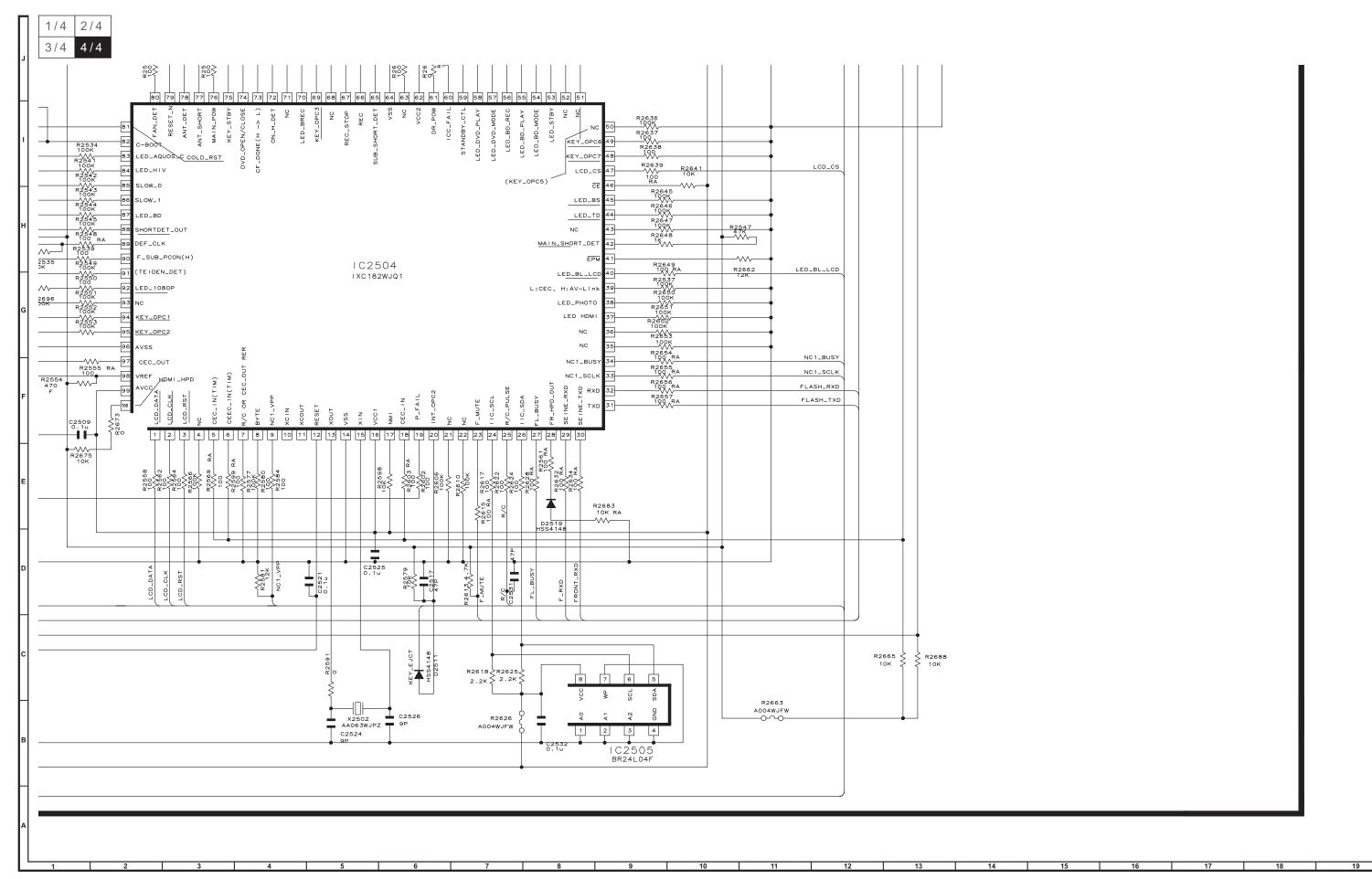
ANALOG unit - 1/2

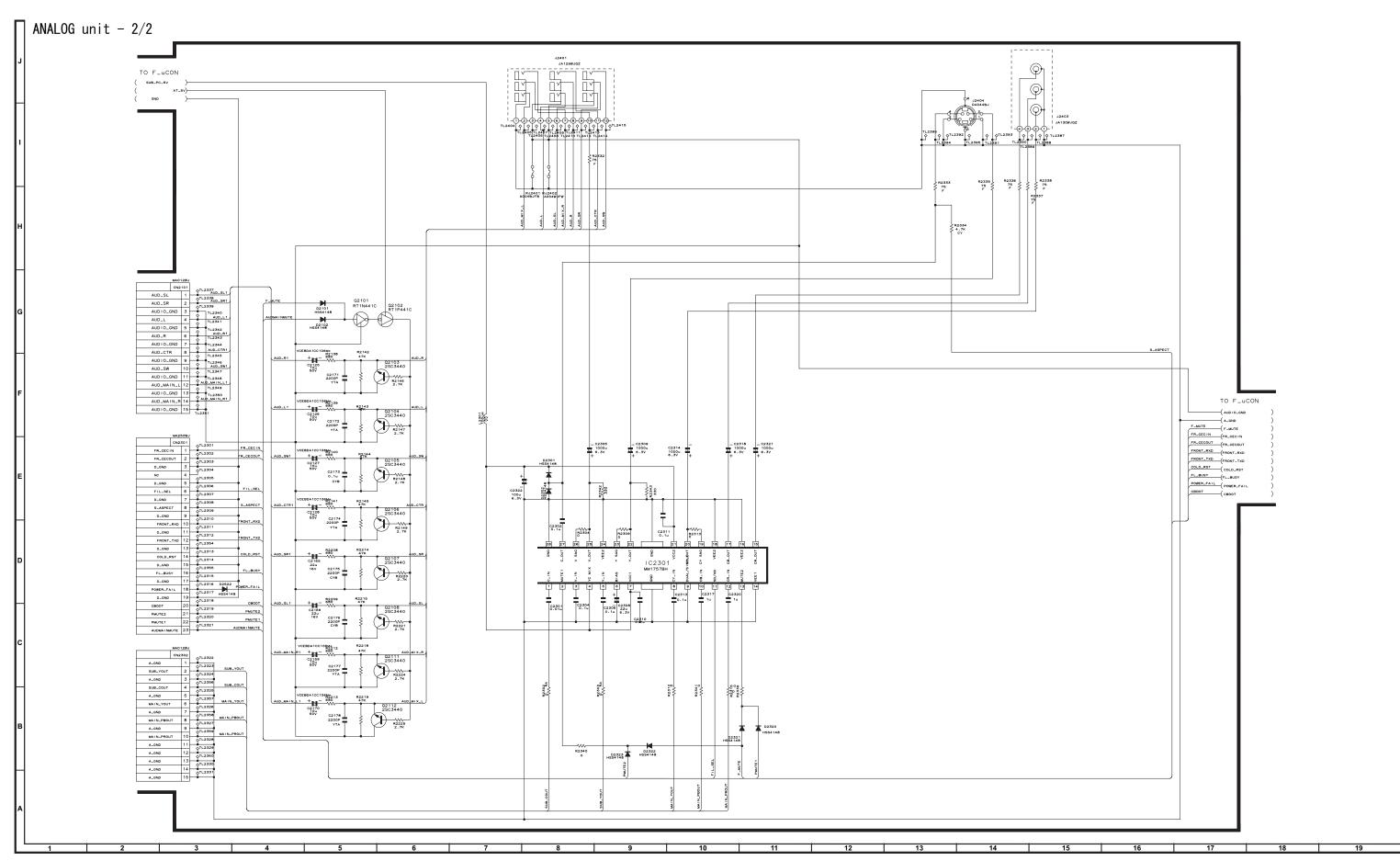


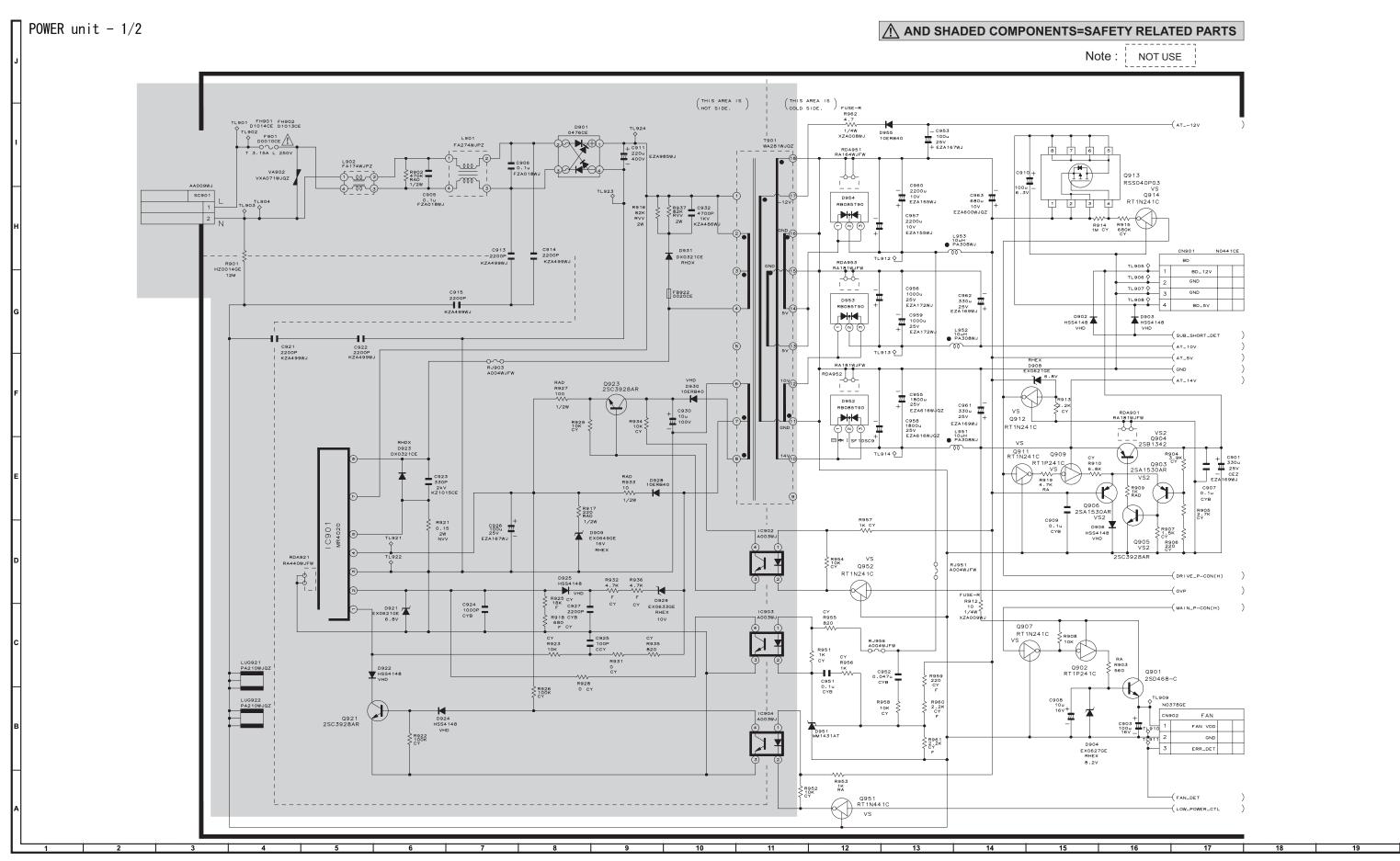


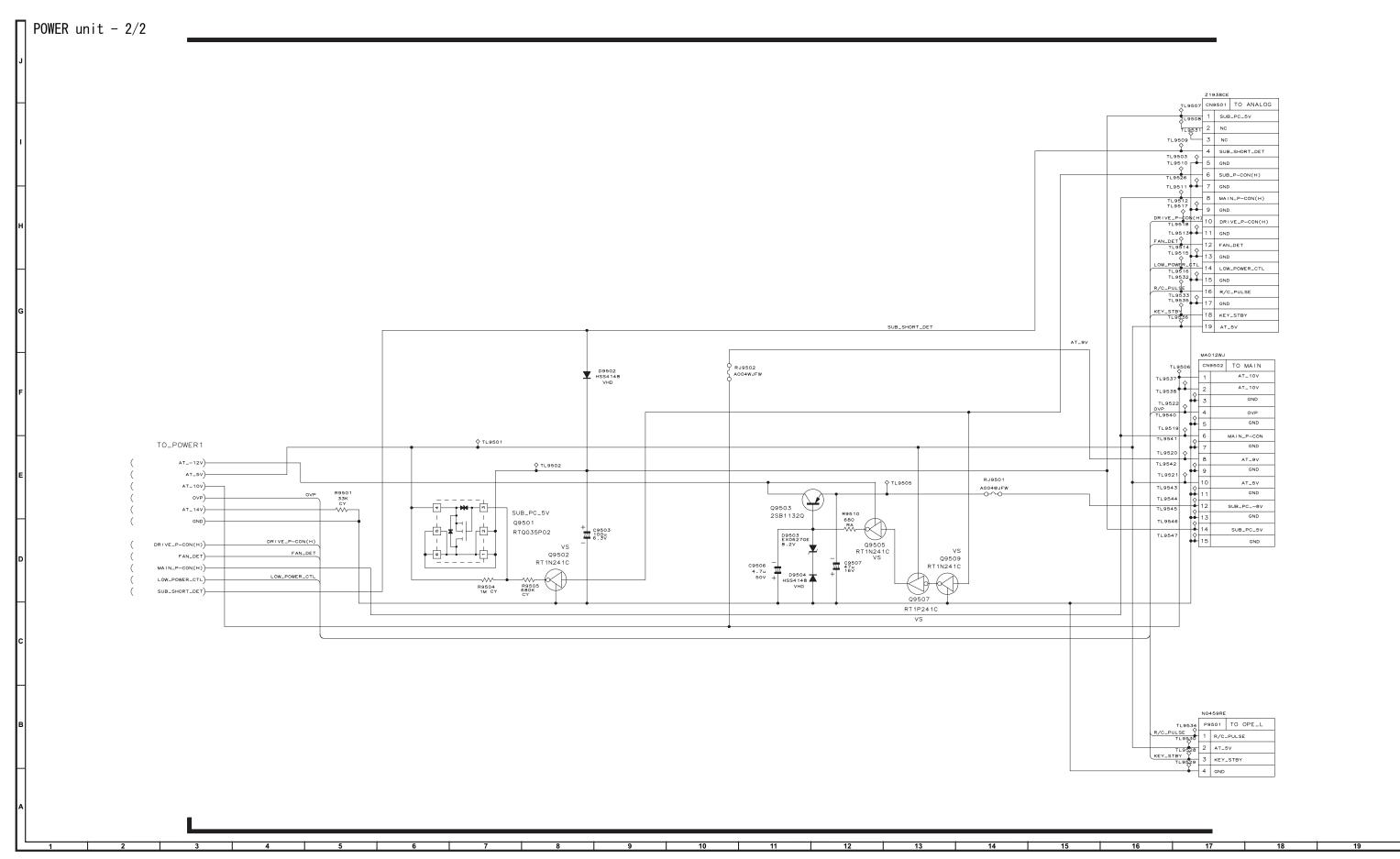


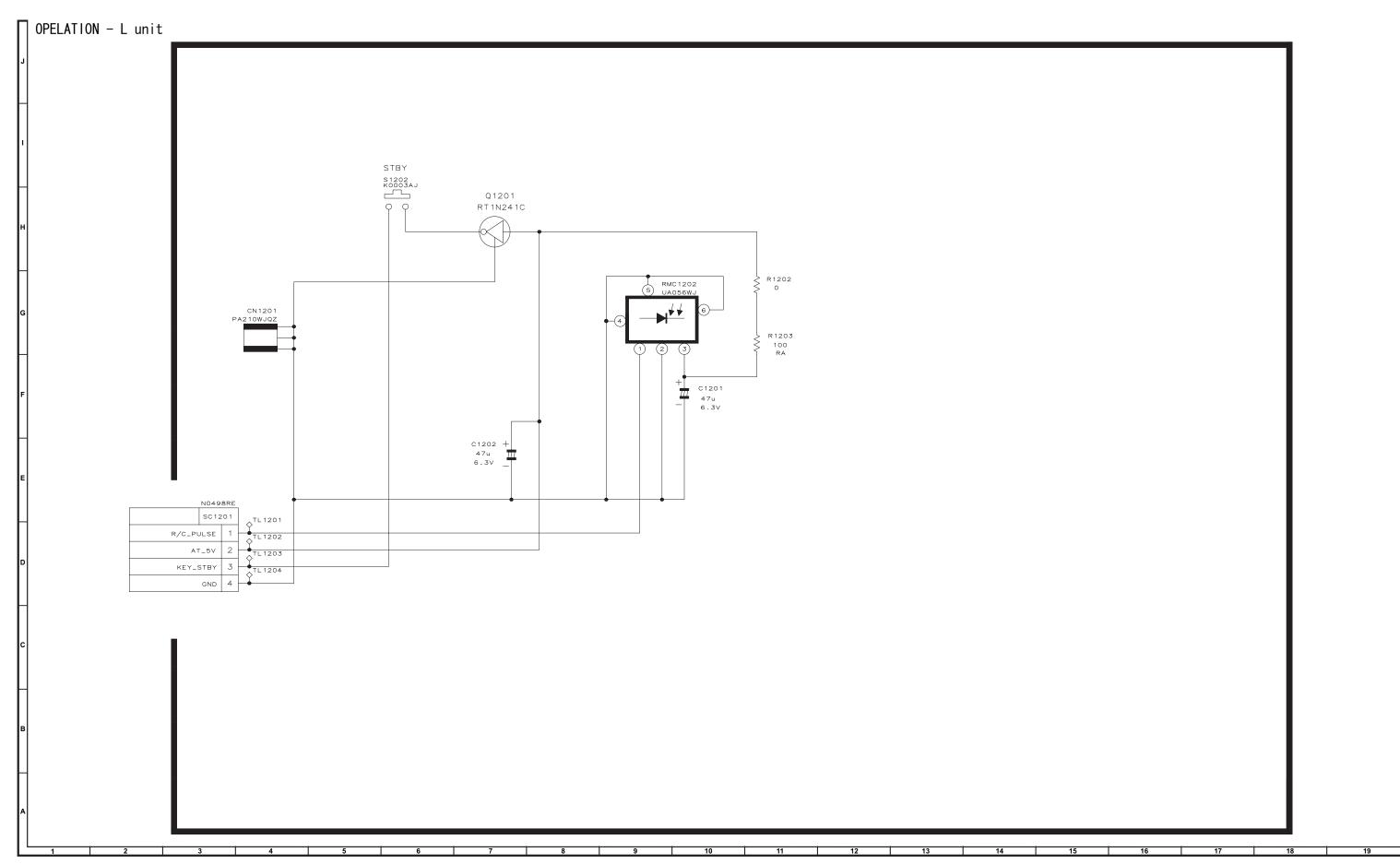




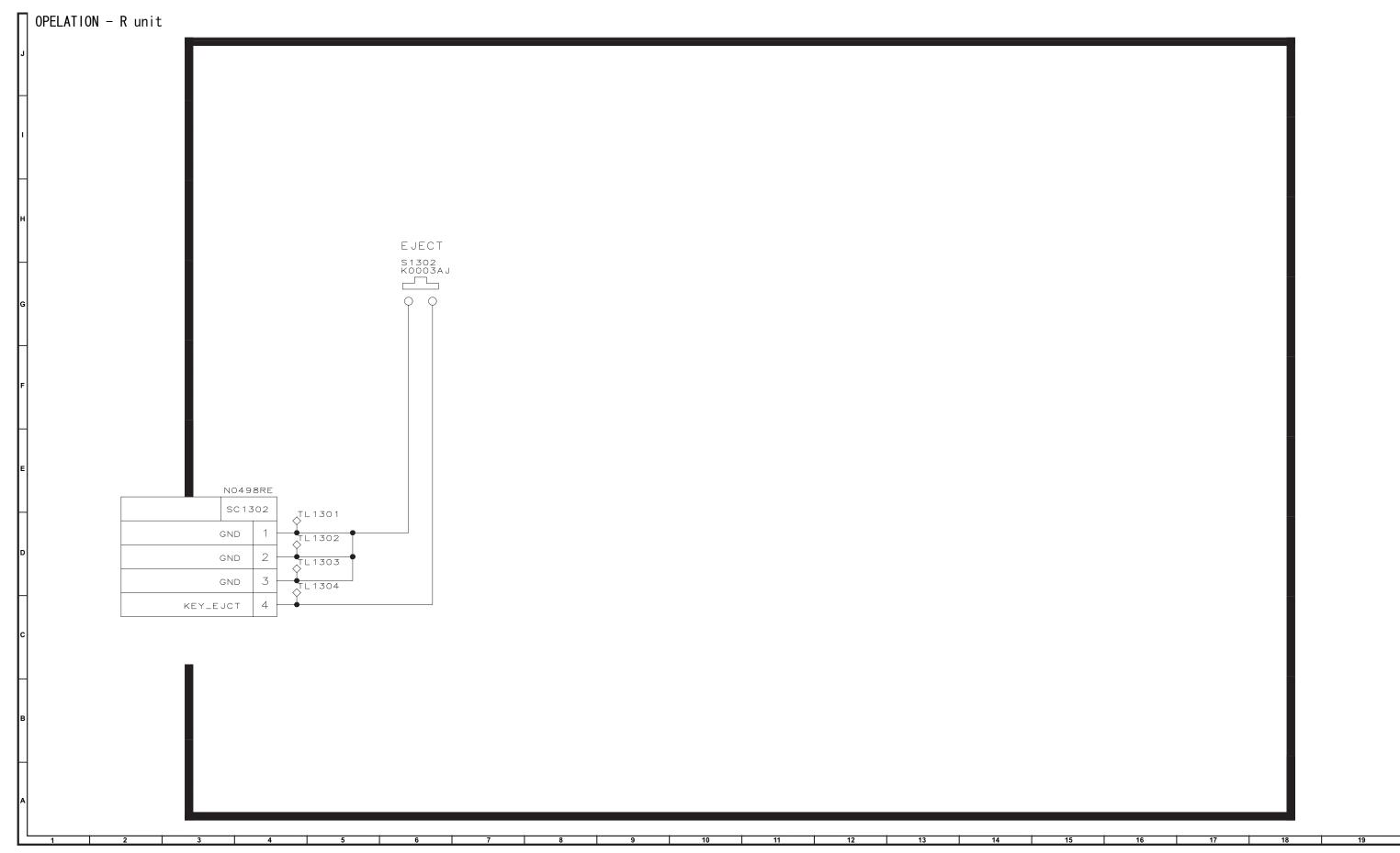




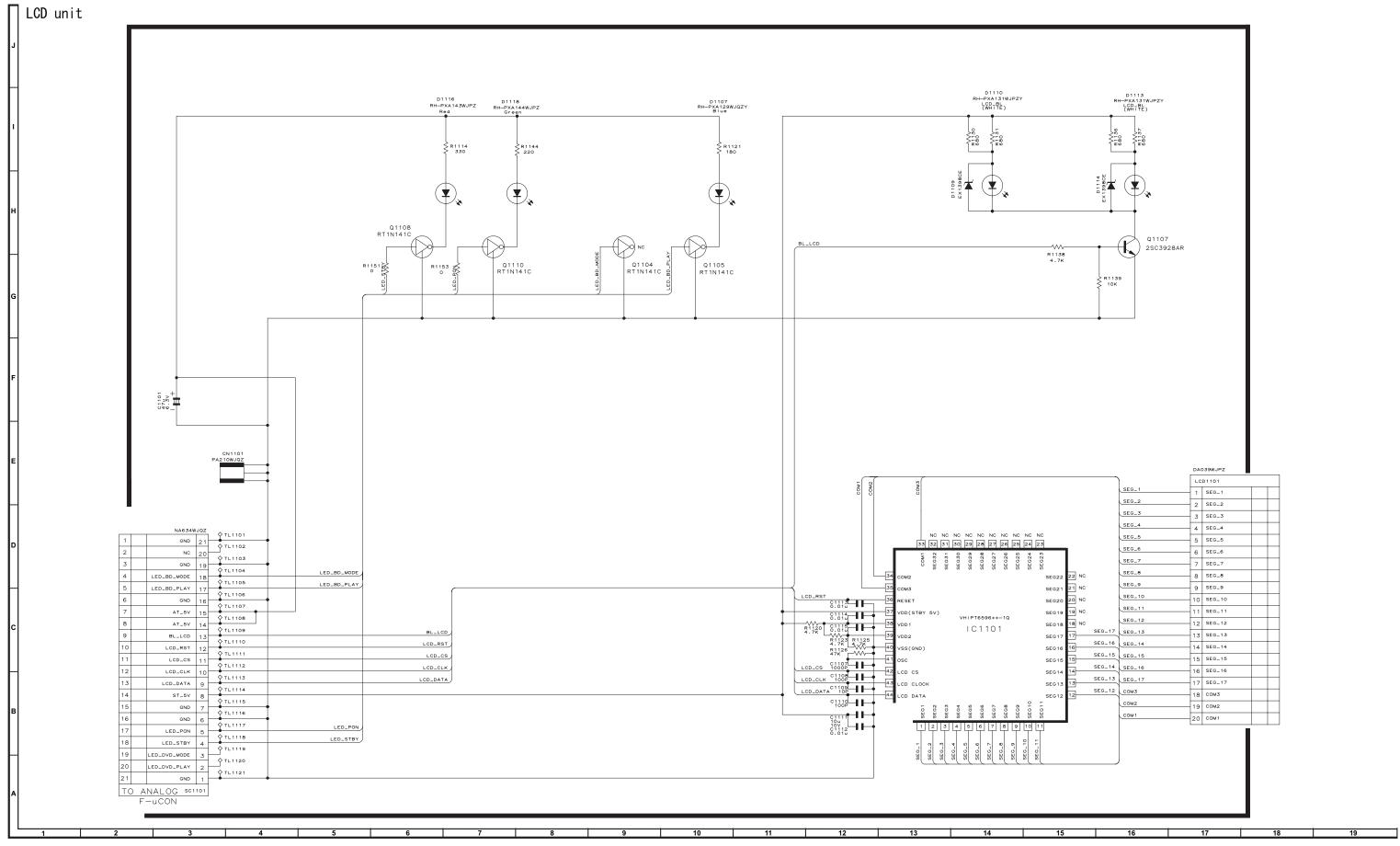




[5] OPERATION-R unit

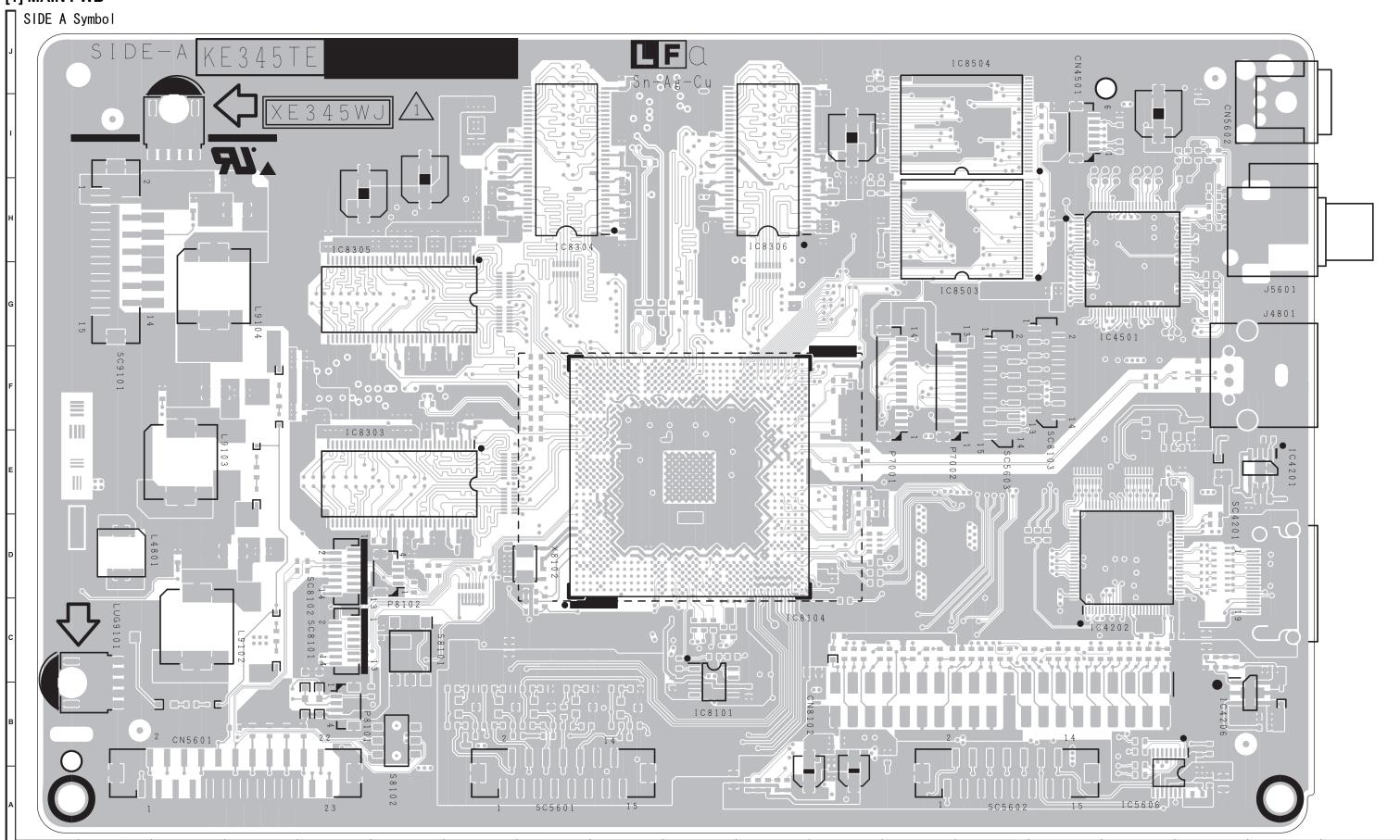


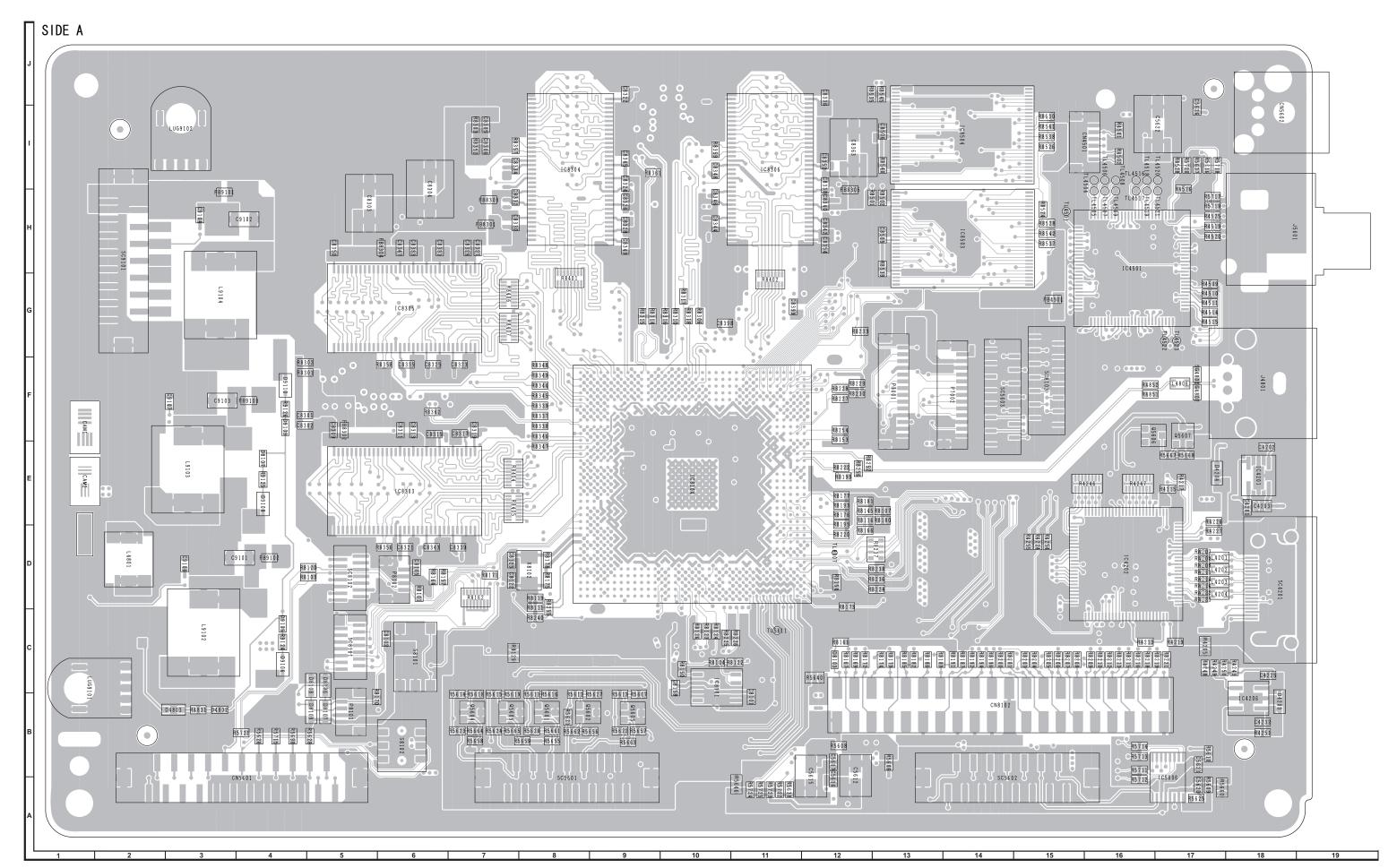
[6] LCD unit

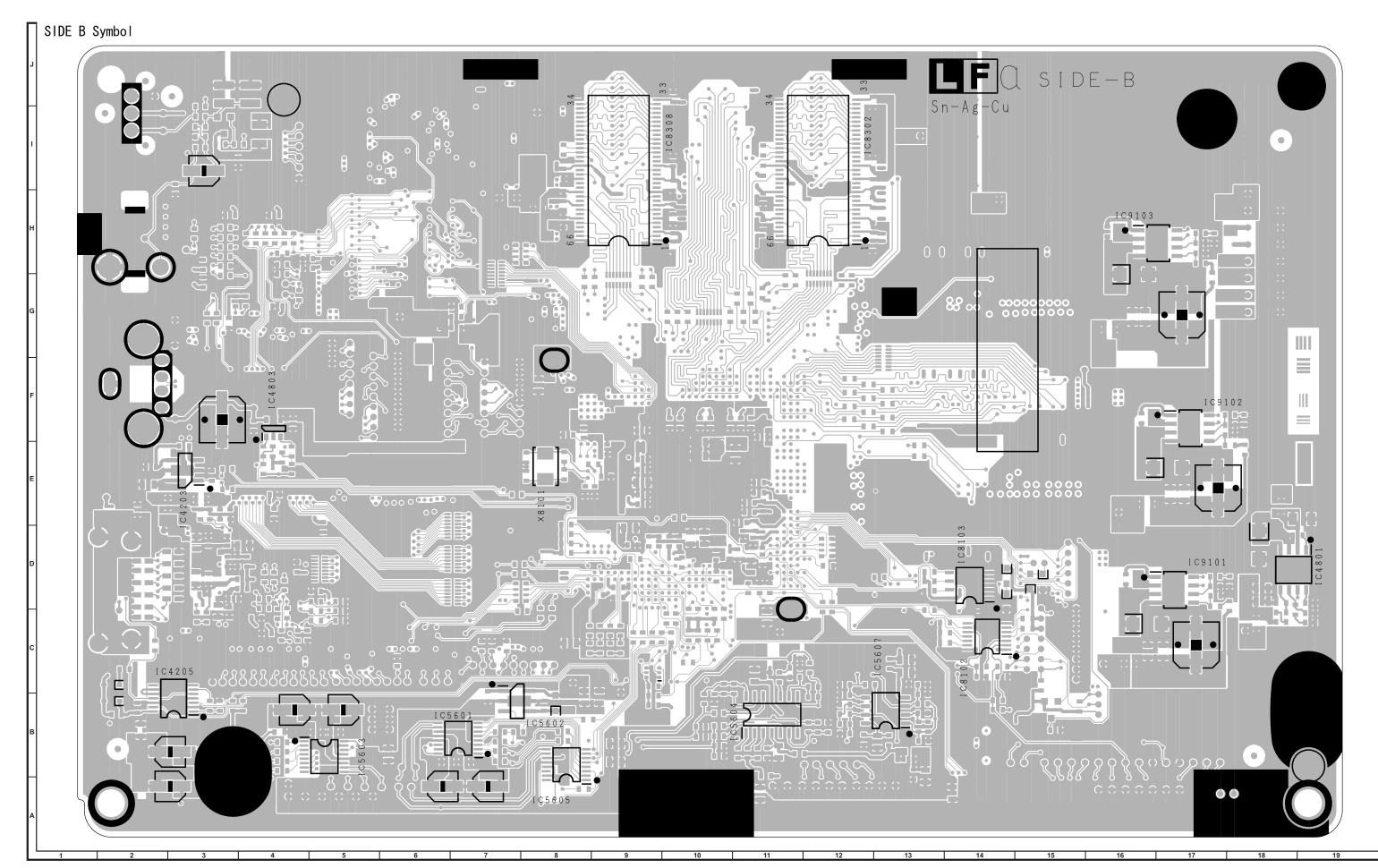


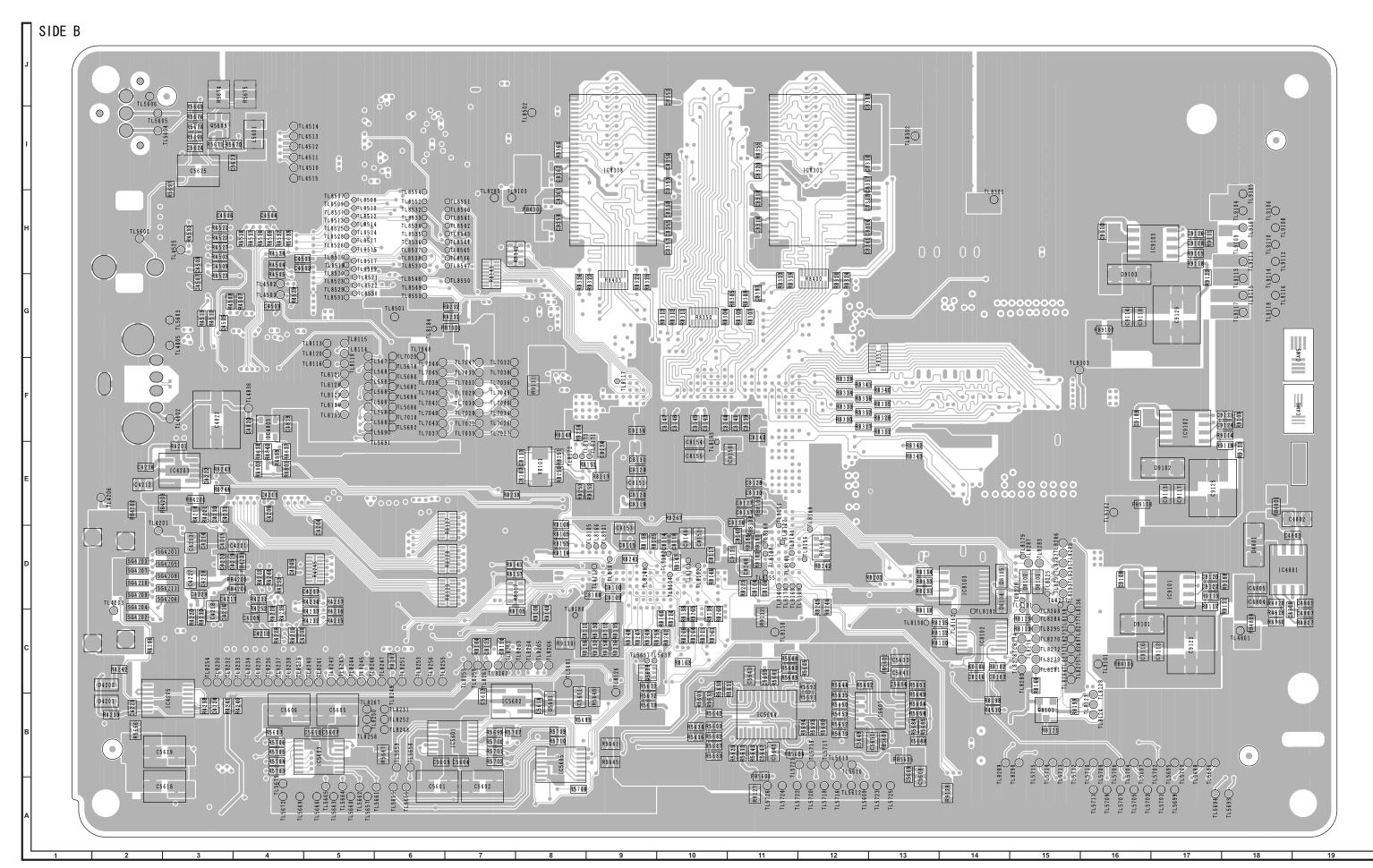
CHAPTER 5. PRINTED WIRING BOARD ASSEMBLIES

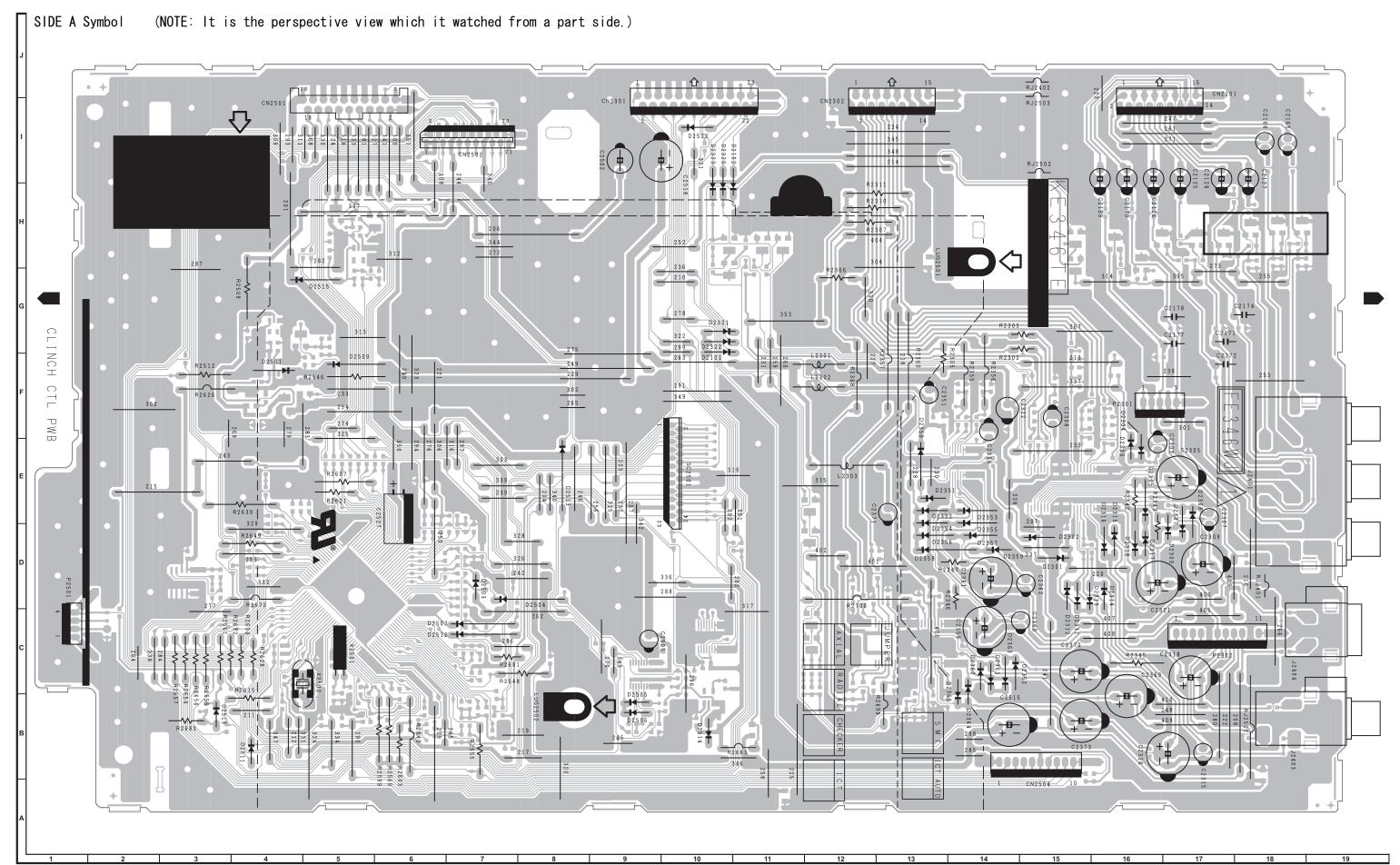
[1] MAIN PWB

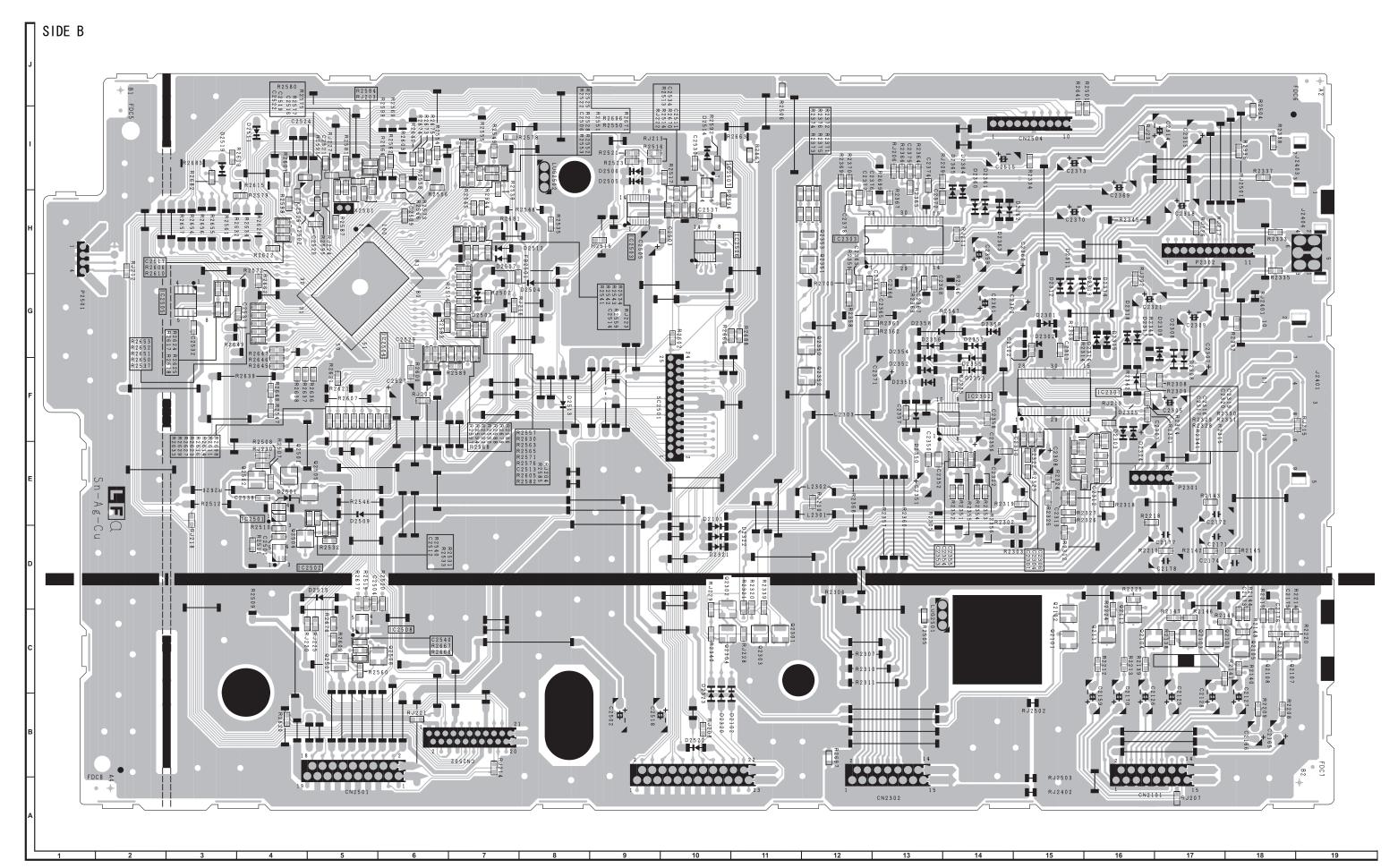


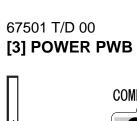


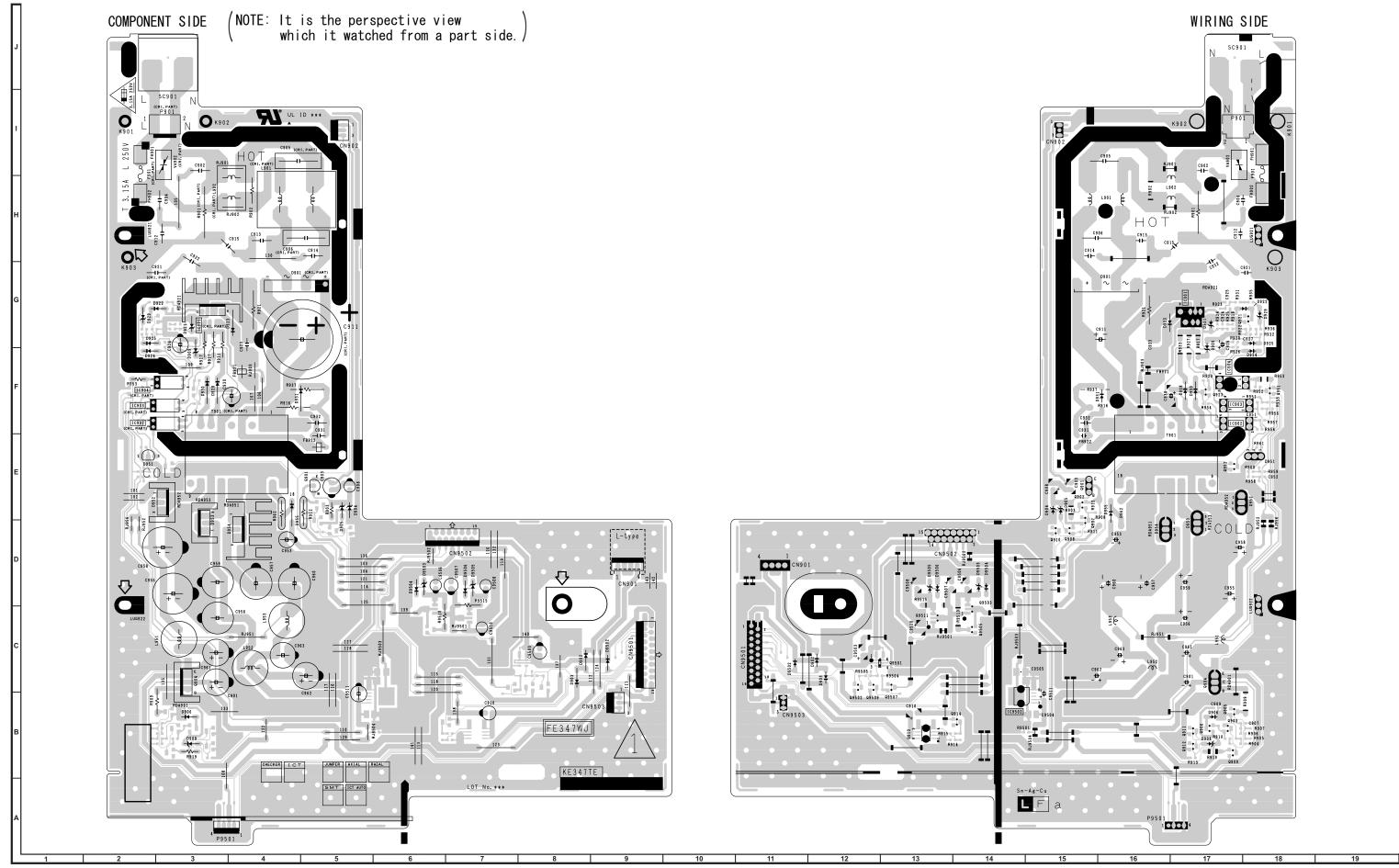


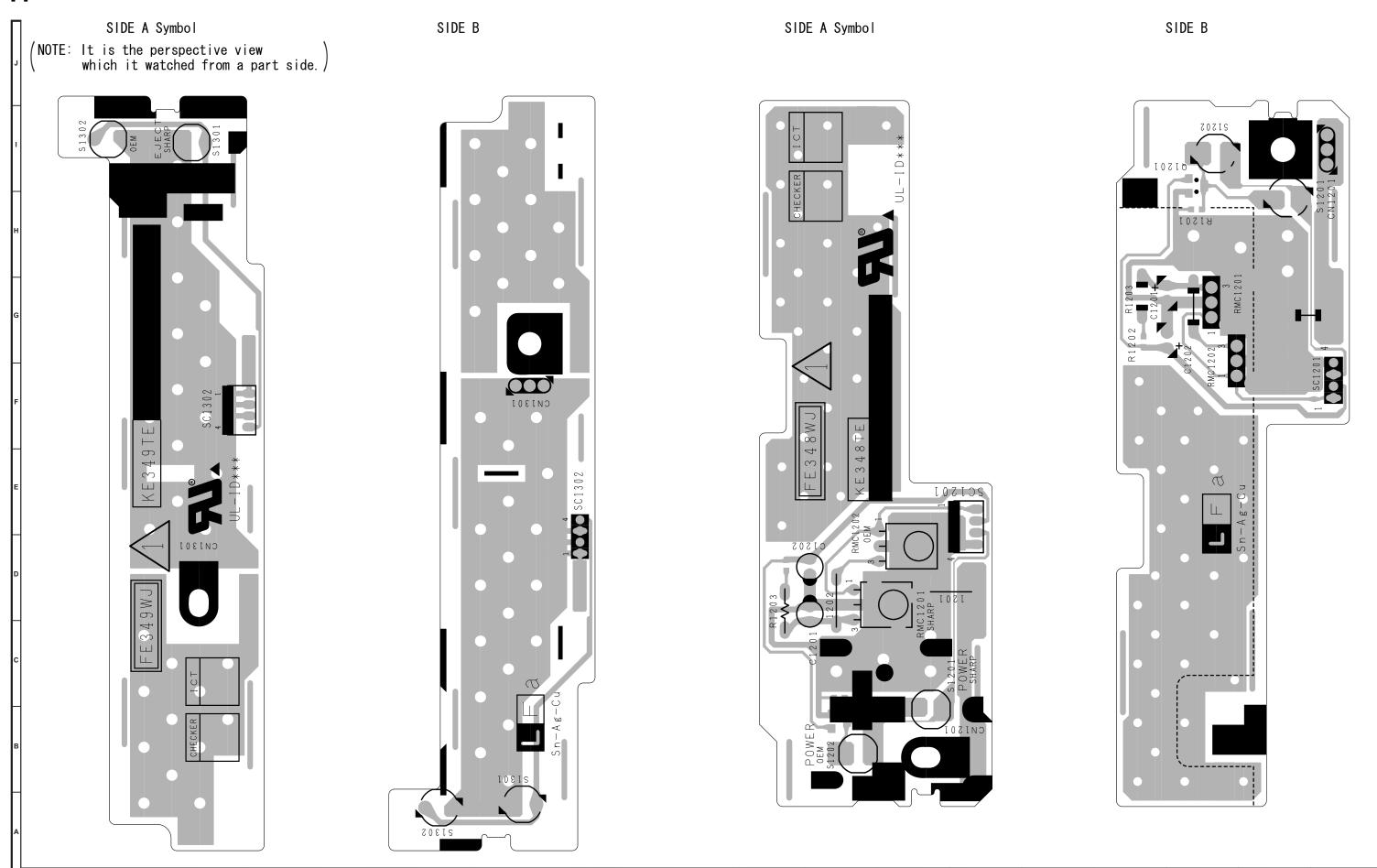


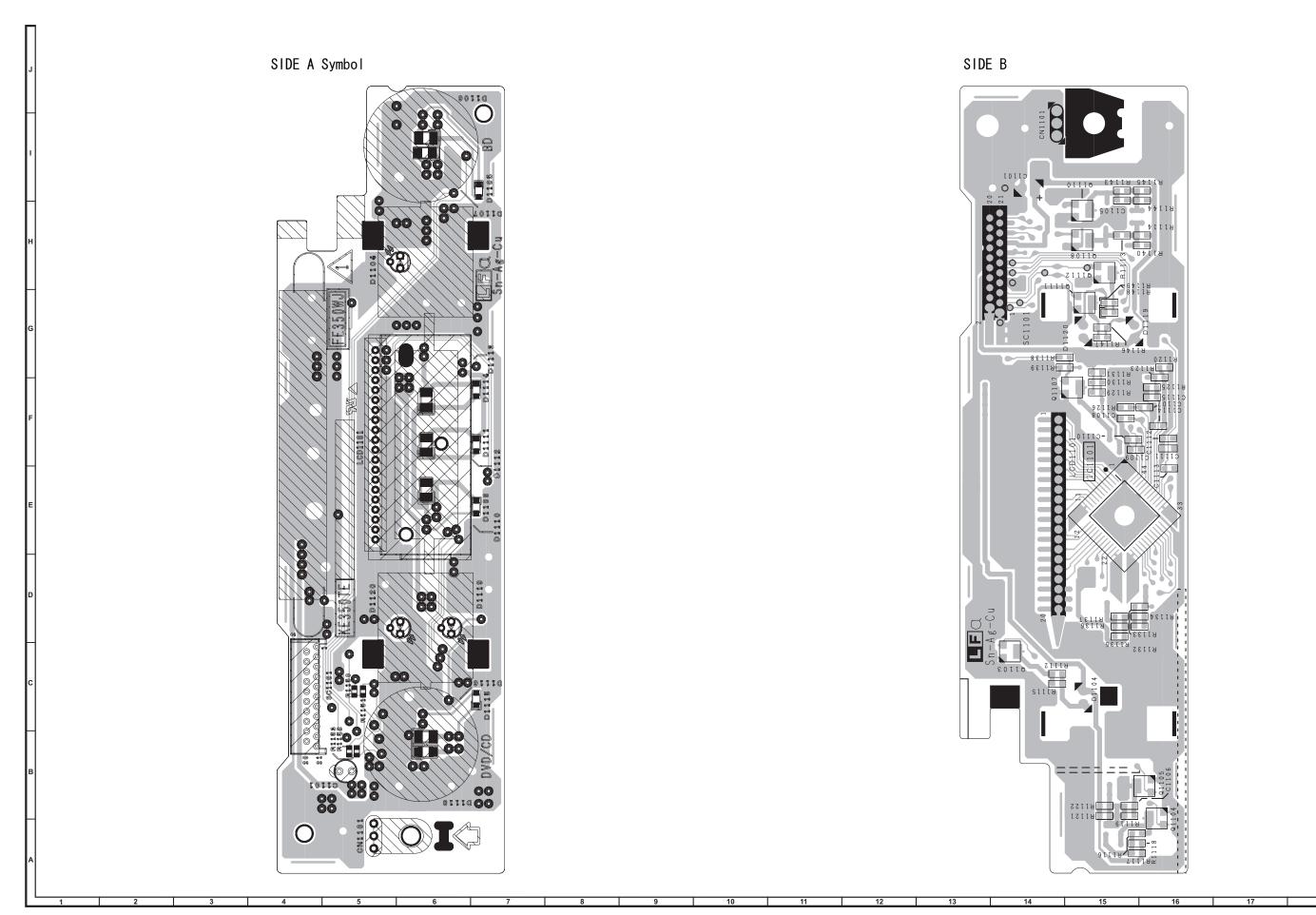






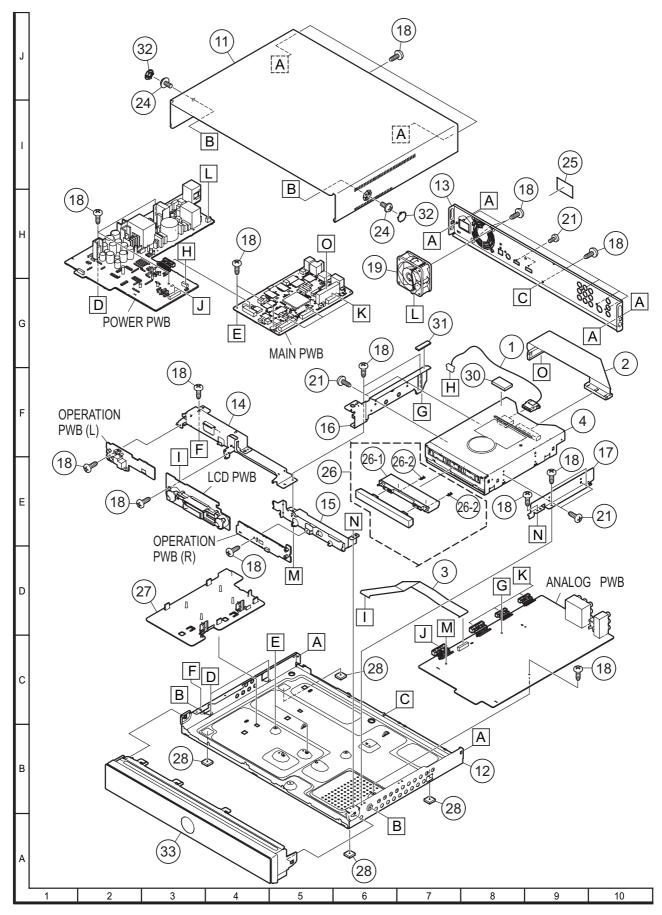






CHAPTER 6. CABINET PARTS

[1] CABINET PARTS



CHAPTER 7. PACKING PARTS

[1] PACKING PARTS

