SECTION 4
CHARTS AND DIAGRAMS

■ SCHEMATIC DIAGRAM NOTES

• Schematic safety precaution

⚠ Parts are safety related parts.
When replacing them, be sure to use the specified parts.

• Unit of value

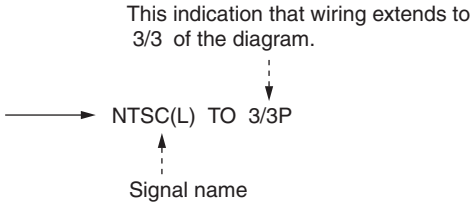
Unless otherwise specified
1) Resistance is in Ω
2) Capacitance is in μF
3) Inductance is in μH

• Expression of wiring

Several diagram is divided to print on some sheets, such an indication as the following is found in the case the wiring extends over two or more divided sections.

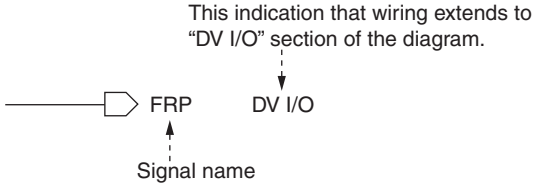
Indication of wiring which extends to another section:
(Example)

A)



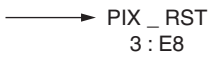
In the above case, the end of the wiring is connected to the "NTSC(L)" on the 3nd section of the diagram.

B)



In the above case, the end of the wiring is connected to the "FRP" on the "DV I/O" section of the diagram.

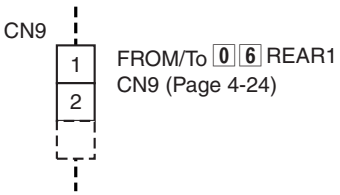
C)



In the above case, the end of the wiring is connected to the "PIX _ RST" on "E" (X-axis) and "8" (Y-axis) position scale in page "3" of the diagram.

• Wiring of connector

(Example)



In the above example, CN9 is connected with CN9 on 0 6 REAR1 board.

• Signal flow on the diagram

The following allow marks indicate the specified signal paths respectively, if it is described.

➡ : Recording or EE signal path
⇨ : Playback signal ptah
➡ : Recording and Playback signal path

• Others

In regard of a board assembly whose circuit is composed of multilayered board patterns such 4- or 6-layered patterns, board patterns of the power supply lines and grounding lines are omitted in this section.

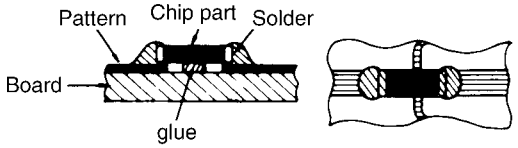
Note: For detail of each electrical part, refer to "ELECTRICAL PARTS LIST" by it symbol number.

■ REPLACING SURFACE MOUNT "CHIP" COMPONENTS

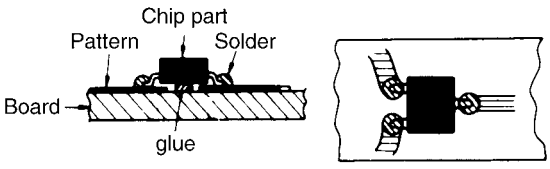
- Some resistors, shorting jumpers (0 resistance), ceramic capacitors, transistors, and diodes are chip parts. These chip parts cannot be reused after they are once removed.
- Chip resistors used in some circuits are of high precision type having little error in resistance.
  To demonstrate the full capacity of this set, place an order for proper parts referring to the diagrams and parts lists in the section 5.
- Soldering cautions:
  1) Do not apply heat for more than 3 seconds.
  2) Avoid using a rubbing stroke when soldering.
  3) Discard removed chips; do not reuse them.
  4) Supplementary cementing is not required.
  5) Use care not to scratch or otherwise damage the chips.

(1) Soldered condition of chip parts

• Resistors, capacitors, etc.

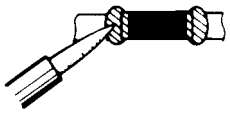


• Transistors, diodes, etc.

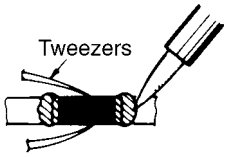


(2) Removing of chip parts

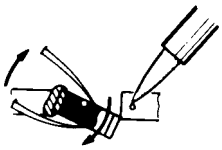
- Resistors, capacitors, etc.
  i) Melt solder at a side.



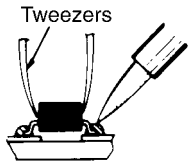
  ii) Holding the chip with tweezers, melt solder at the other side.



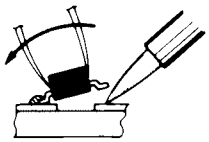
  iii) Take off the chip in twisting and sliding motion.



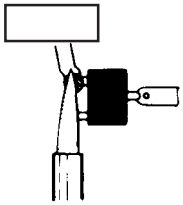
- Transistors, diodes, etc.
  i) Melt solder at the side of single lead.



  ii) Lift the unsolderd side upwards.



  iii) Simultaneously melt solder at two leads of the other side and pull up the chip.

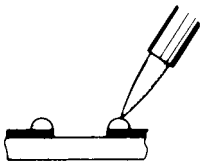


(3) Preheating and soldering of chip parts

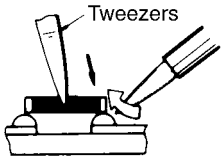
Except transistors, make sure to preheat all chip parts, capacitors in particular, with a hot wind of 150°C approx. (of a hair dryer, etc.) for 2 minutes just before soldering, and immediately solder by a soldering iron of approx. 30 W.

(4) Attaching of chip parts

i) Heap up a proper amount of solder beforehand.



ii) Holding down a new chip by tweezers, solder it to the board by a soldering iron to melt solder from its lower part to the upper part (in the direction shown by a big arrow).

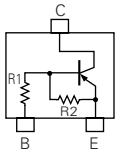


■ CHIP PARTS PIN ARRANGEMENT

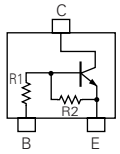
[1] Digital transistors

DTC 1 □□□□ (① ②③)

DTA 1 □□□□
DTB 1 □□□□ (① ②③)



(Top view)



(Top view)

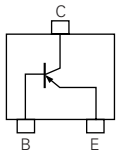
① Two digits show resistance of R1 in abbreviation.
- 43 : 4.7 kΩ
- 14 : 10 kΩ
- 24 : 22 kΩ
- 44 : 47 kΩ

② Roman letter show the resistive ratio between R1 and R2 in abbreviation.
- E : R2/R1 = 1/1
- Y : R2/R1 = 5/1
- W : R2/R1 = 2/1
- X : R2/R1 = 1/2
- T : R2 is opened.

③ Symbol the shape of resistor in abbreviation.

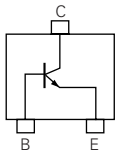
[2] Chip transistors and chip F.E.T.s

2SA □□□□
2SB □□□□



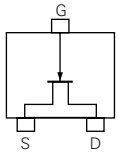
(Top view)

2SC □□□□
2SD □□□□



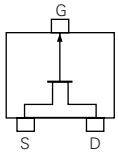
(Top view)

2SK □□□□



(Top view)

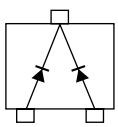
2SJ □□□□



(Top view)

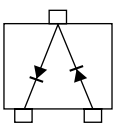
[3] Chip diodes

MA143A/MA742



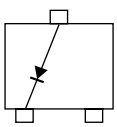
(Top view)

MA142WA



(Top view)

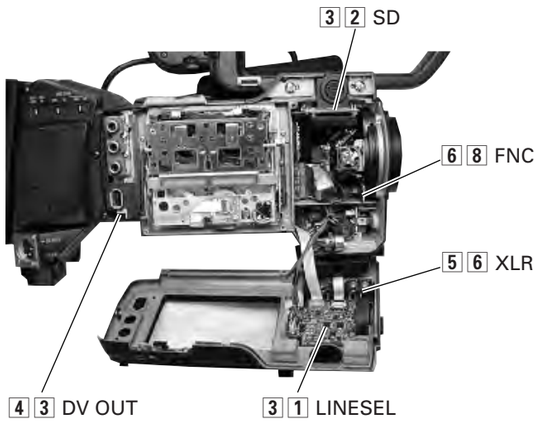
MA142A

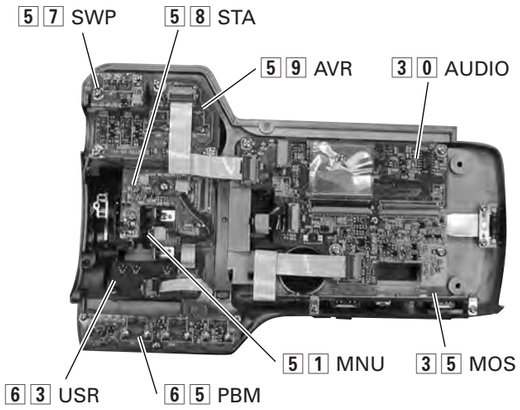


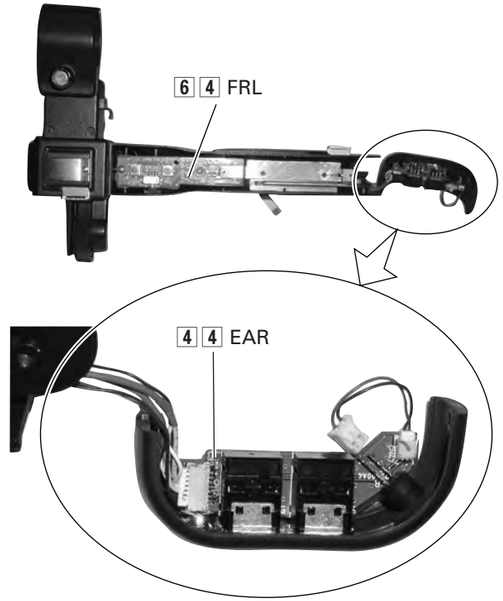
(Top view)

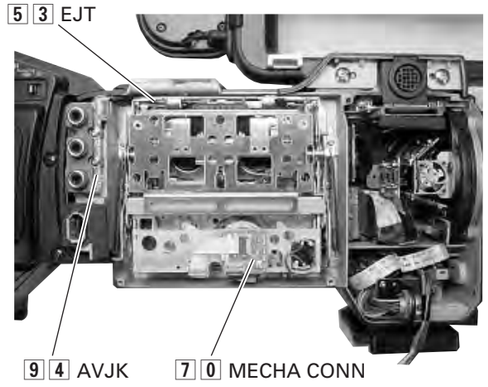
4.1 INDEX TO PAGES OF MAIN BOARDS AND CIRCUIT BOARD LOCATION

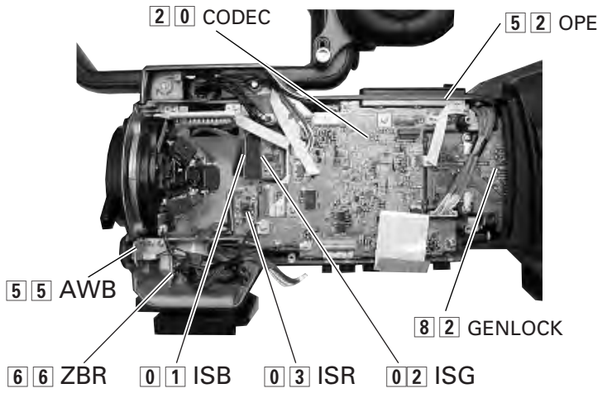
4.1.1 Circuit board location

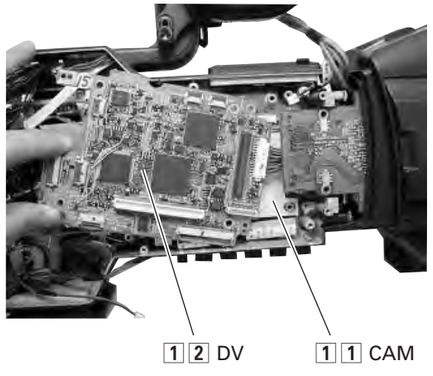


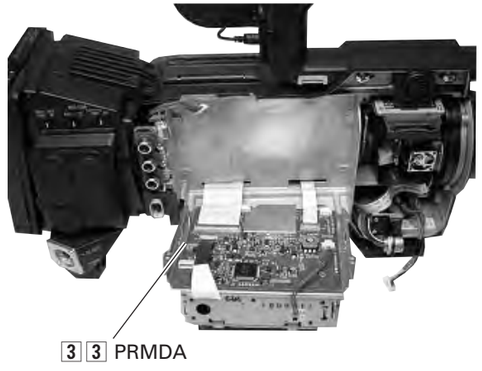


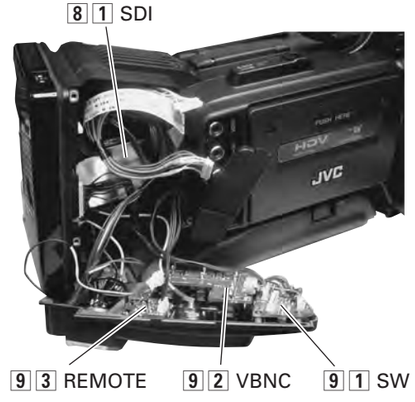












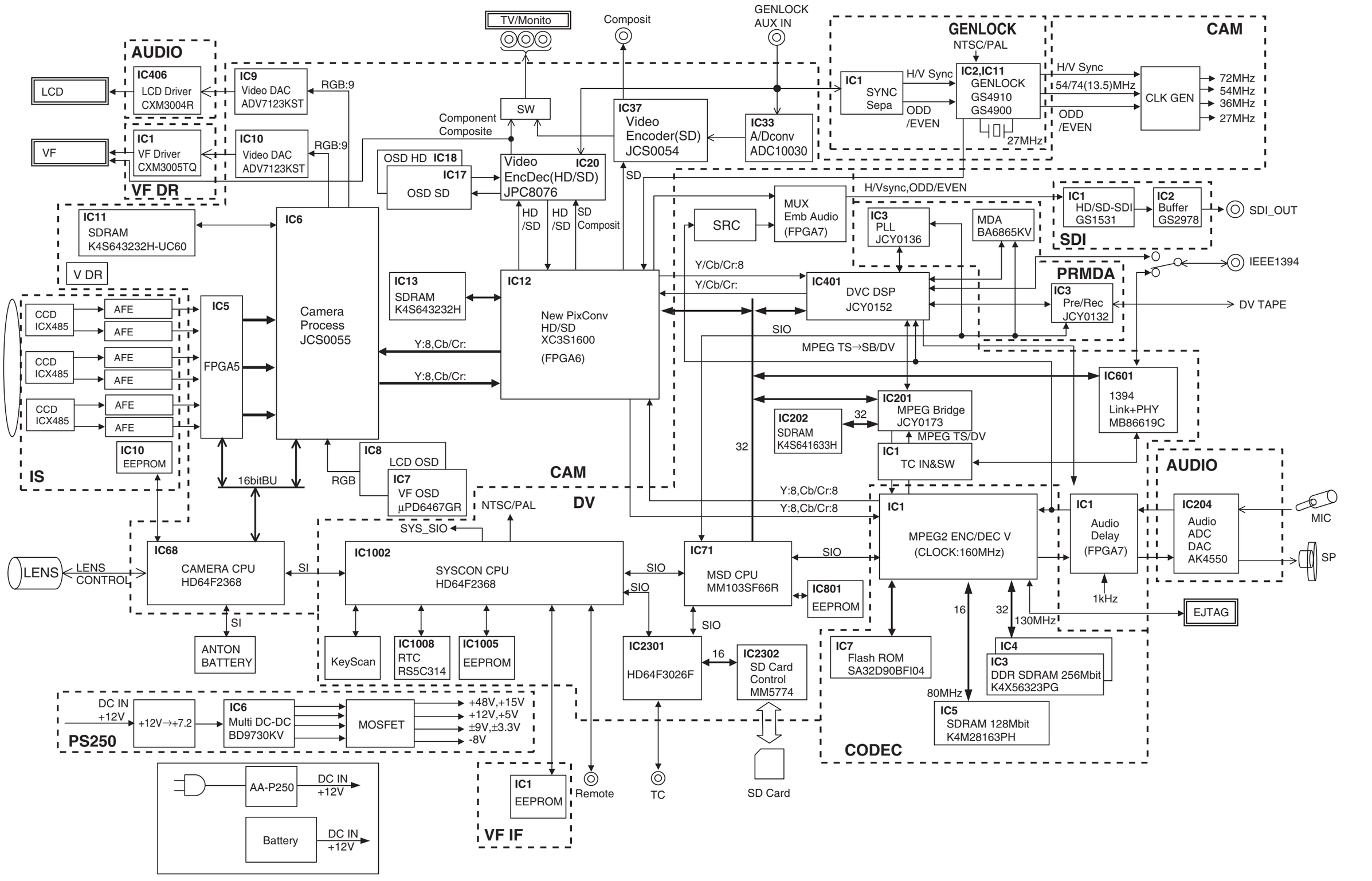
Board No.	Board Name	Page of diagram	
		Schematic diagram	Circuit board
01	ISB	4-9	4-12
02	ISG	4-10	4-12
03	ISR	4-11	4-12
11	CAM	4-13 to 4-21	4-22 to 4-23
12	DV	4-24 to 4-35	4-36 to 4-37
20	CODEC	4-38 to 4-41	4-42 to 4-43
21	PS250	4-44	4-45
30	AUDIO	4-46 to 4-47	4-48
31	LINSEL	4-51	4-50
32	SD	4-56	4-57
33	PRMDA	4-52 to 4-54	4-55
34	VF DR	4-49	4-50
35	MOS	4-56	4-57

Board No.	Board Name	Page of diagram	
		Schematic diagram	Circuit board
43	DVOUT	4-56	4-57
44	EAR	4-56	4-57
51	MNU	4-58	4-59
52	OPE	4-58	4-59
53	EJT	4-58	4-59
54	VF IF	4-58	4-59
55	AWB	4-58	4-59
56	XLR	4-58	4-59
57	SWP	4-58	4-59
58	STA	4-58	4-59
59	AVR	4-58	4-59
61	M BL	4-60	4-61
62	FTY	4-60	4-61

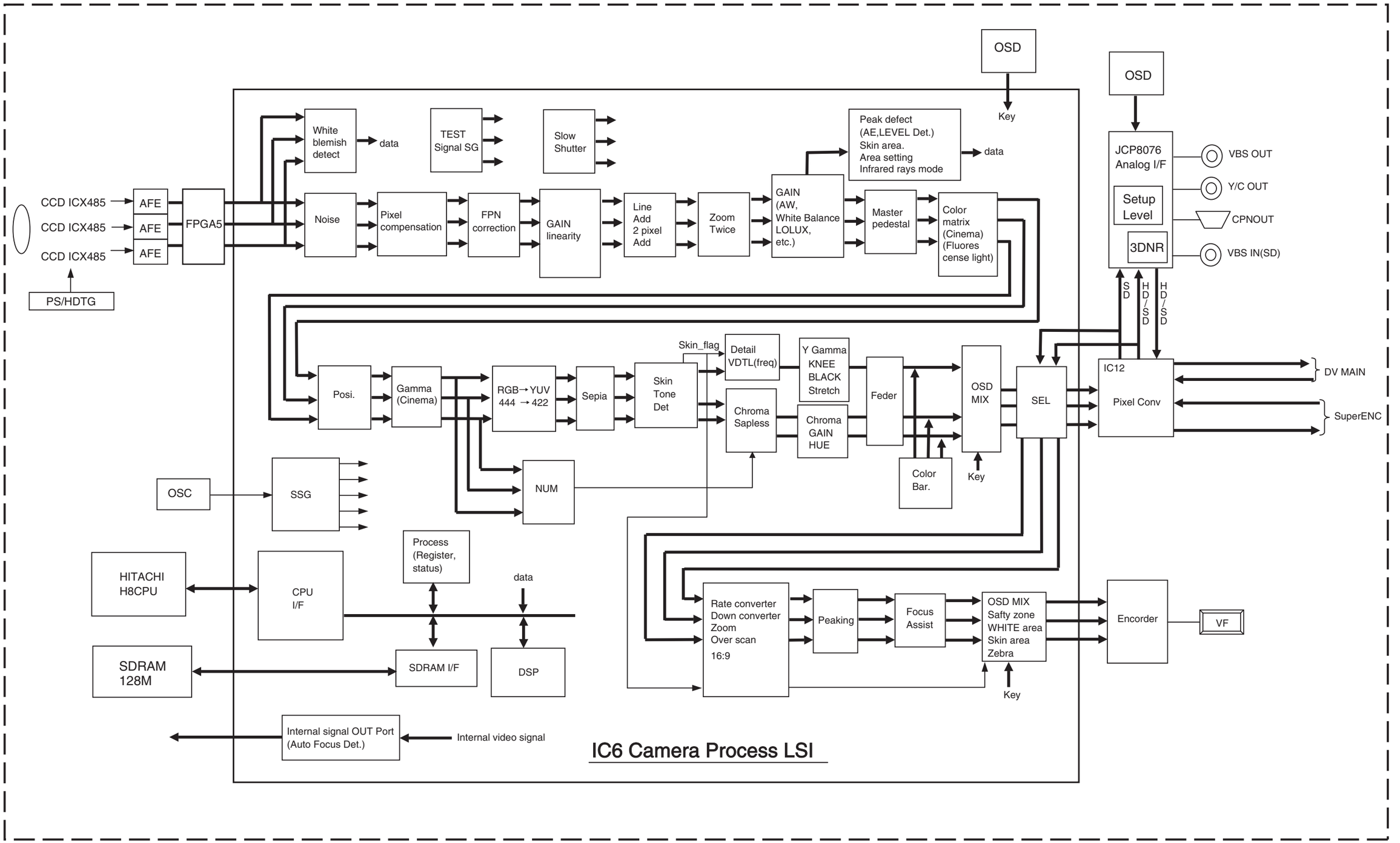
Board No.	Board Name	Page of diagram	
		Schematic diagram	Circuit board
63	USR	4-60	4-61
64	FRL	4-60	4-61
65	PBM	4-60	4-61
66	ZBR	4-60	4-61
68	FNC	4-60	4-61
70	MECH CONN	4-60	4-61
81	SDI	4-64	4-68
82	GENLOCK	4-65 to 4-67	4-68
91	SW	4-62	4-63
92	VBNC	4-62	4-63
93	REMOTE	4-62	4-63
94	AVJK	4-62	4-63
95	FAN	4-62	4-63

4-3

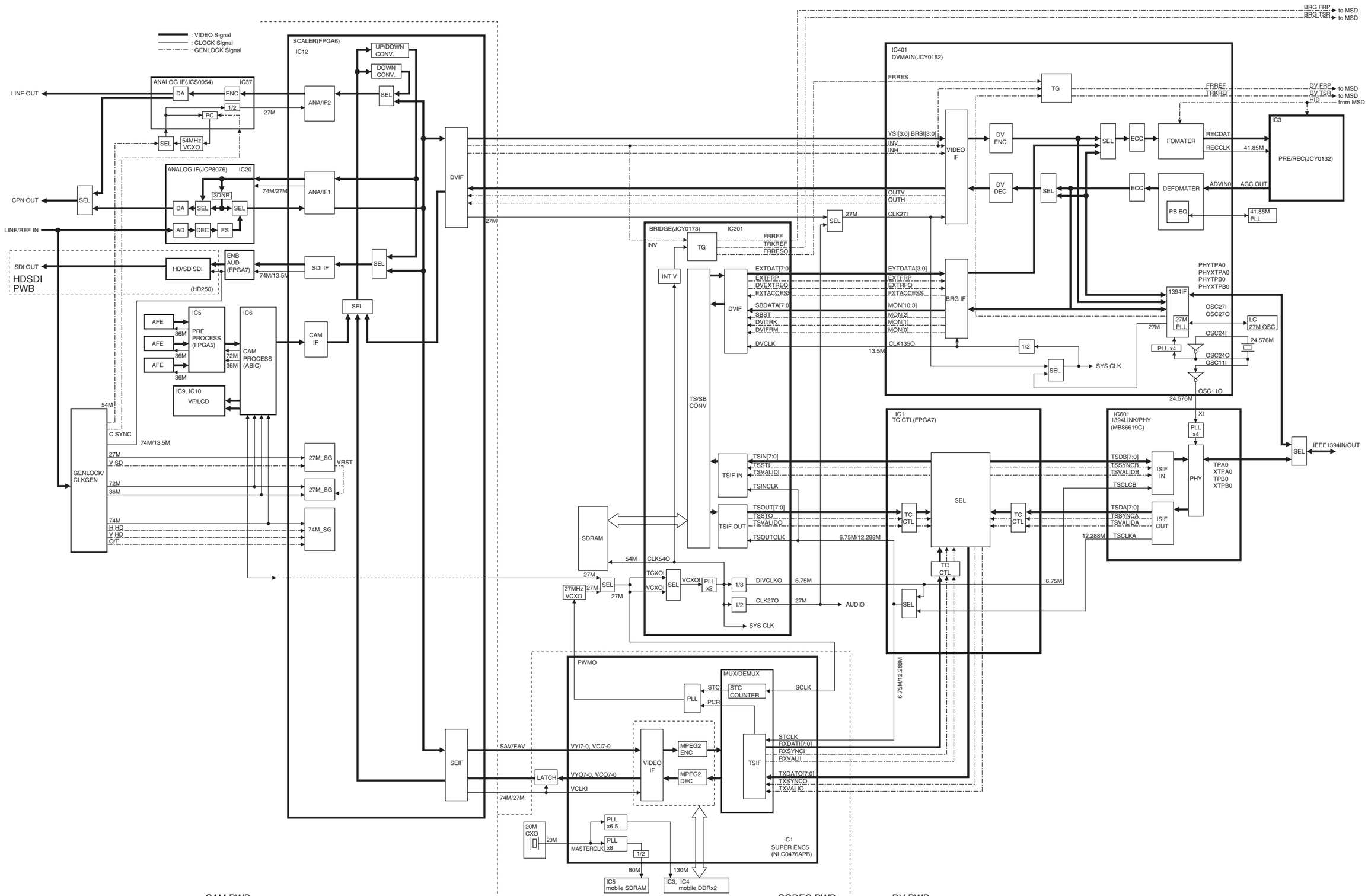
4.2 GENERAL BLOCK DIAGRAM



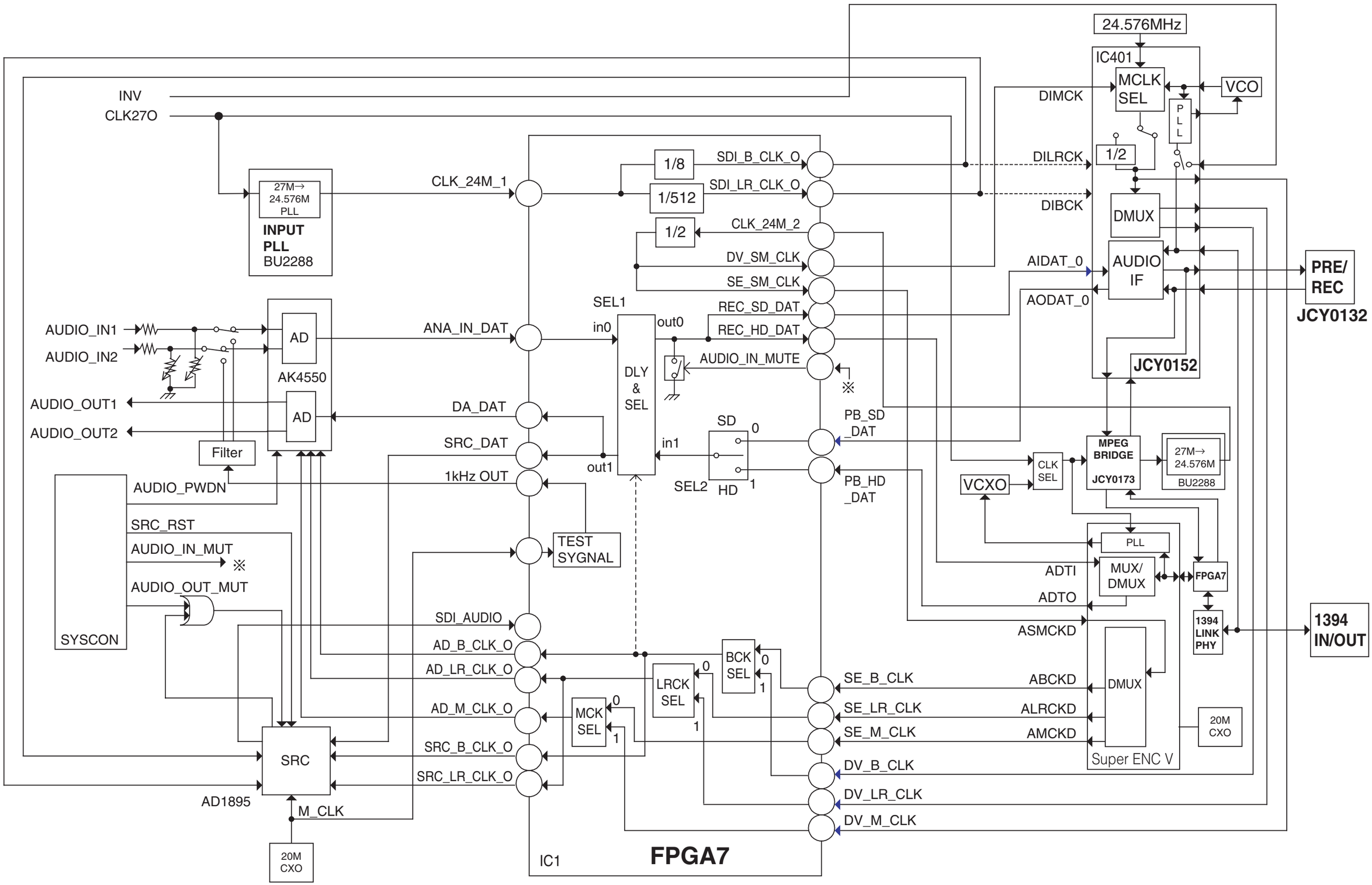
4.3 CAMERA PROCESS BLOCK DIAGRAM



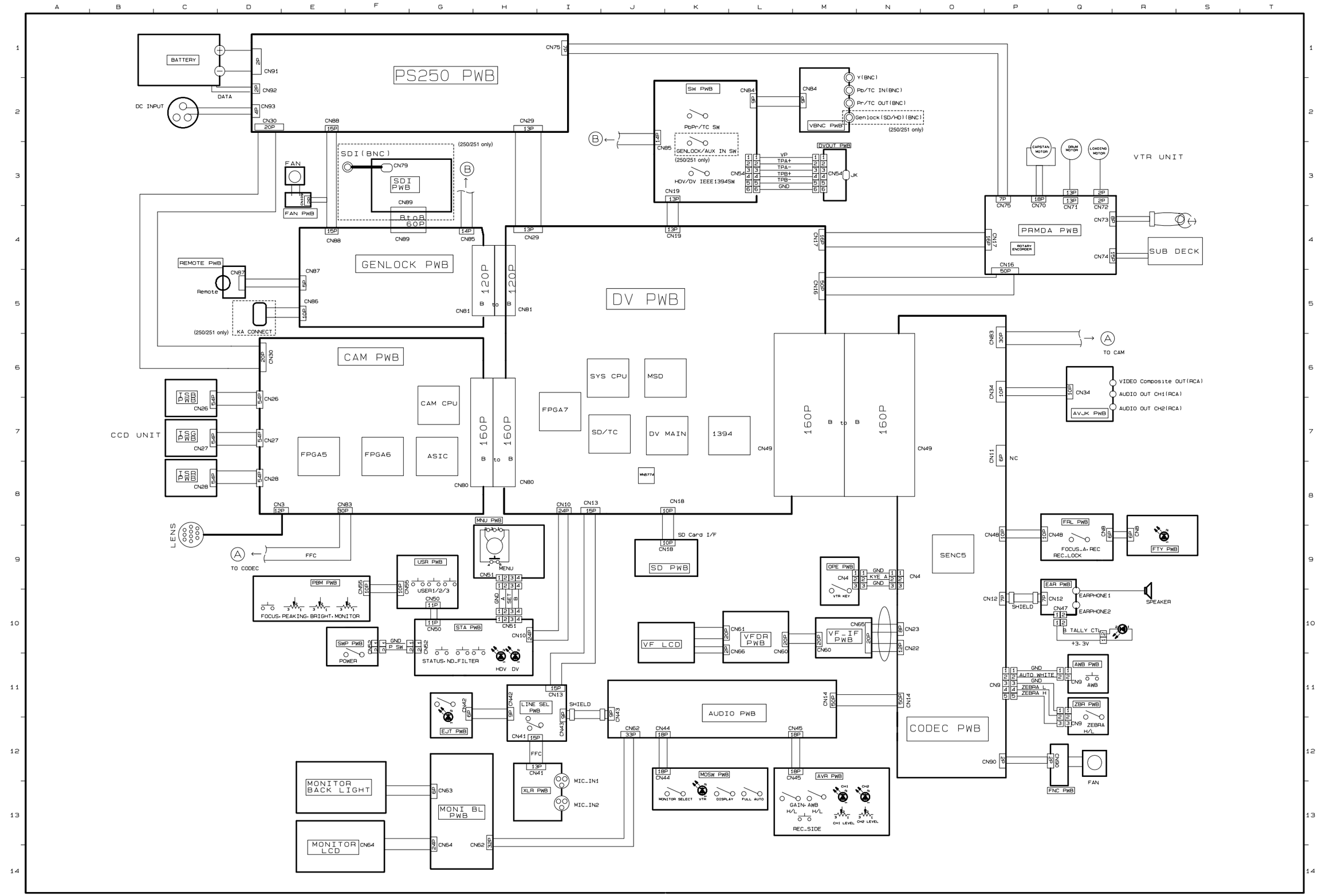
4.4 VIDEO BLOCK DIAGRAM



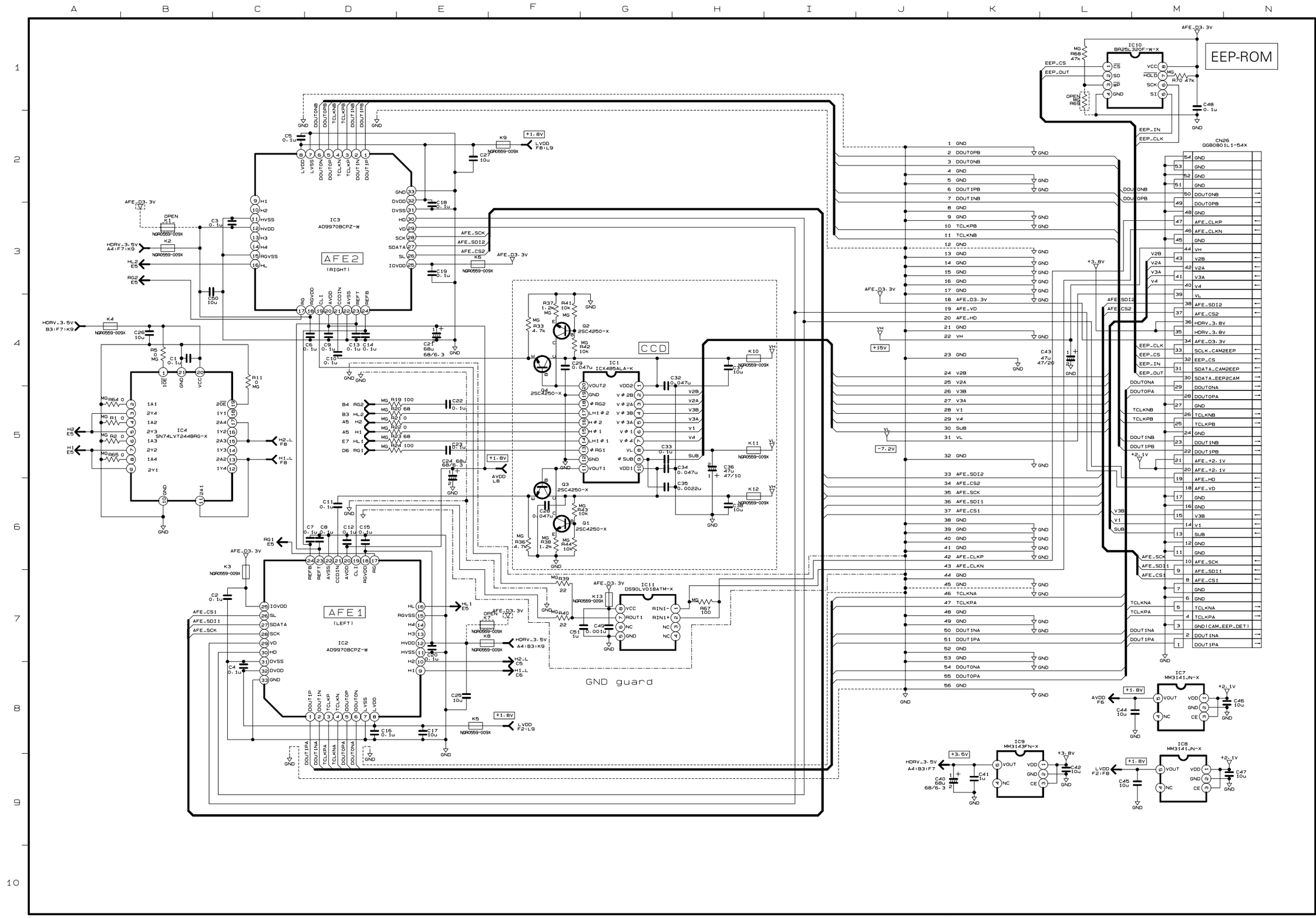
4.5 AUDIO BLOCK DIAGRAM



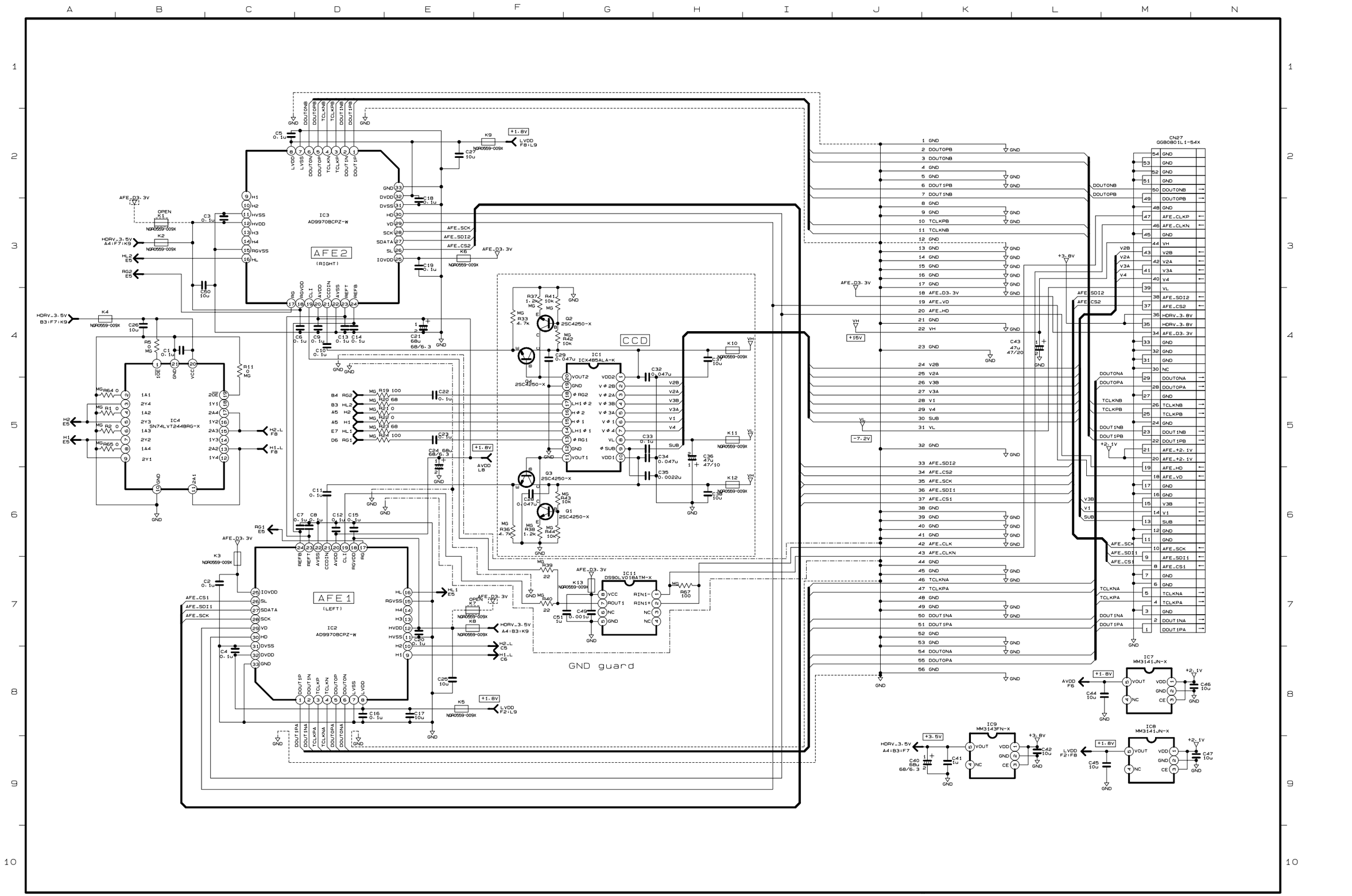
4.6 OVERALL WIRING DIAGRAM



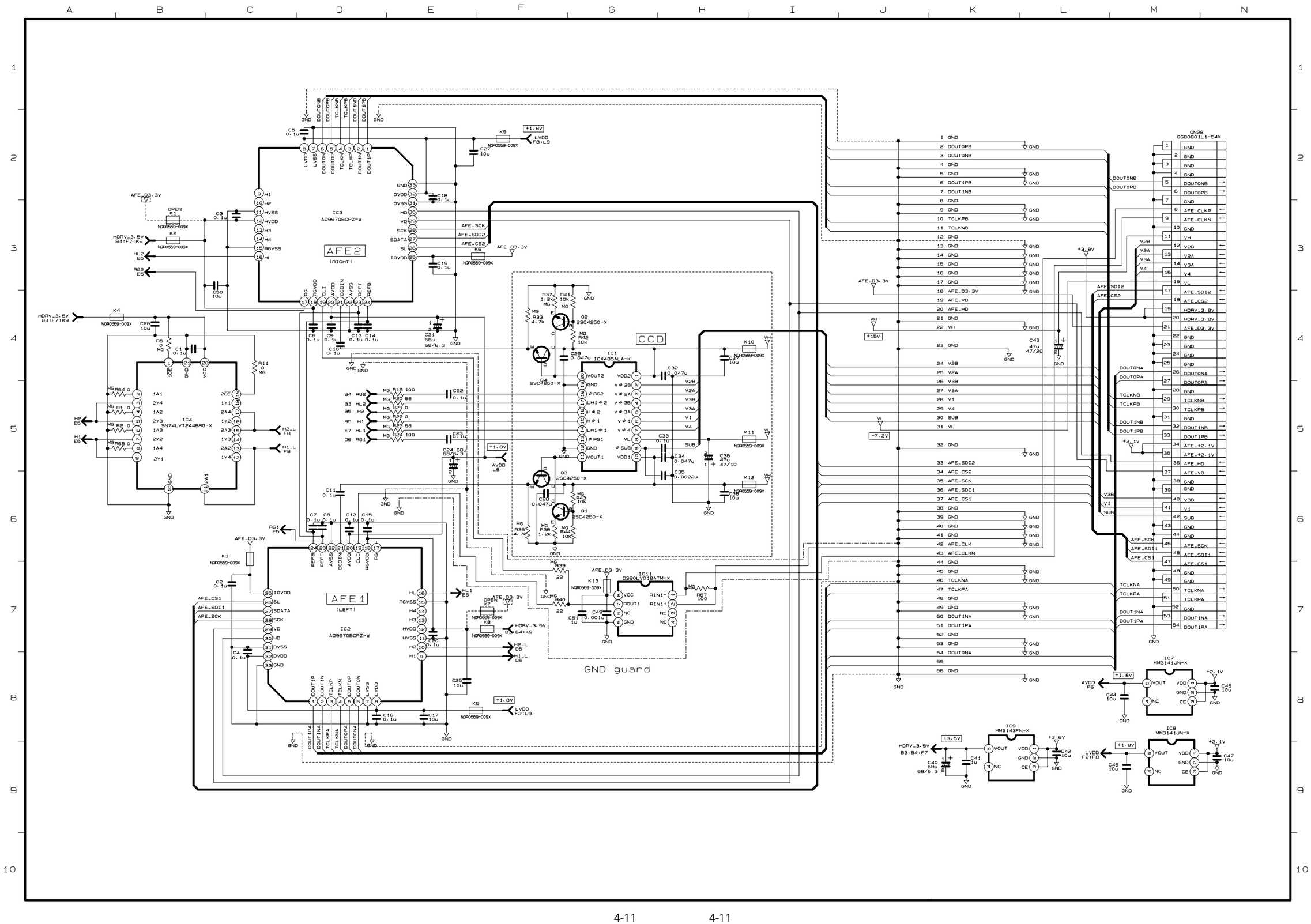
4.7 ISB SCHEMATIC DIAGRAM 01



4.8 ISG SCHEMATIC DIAGRAM 02



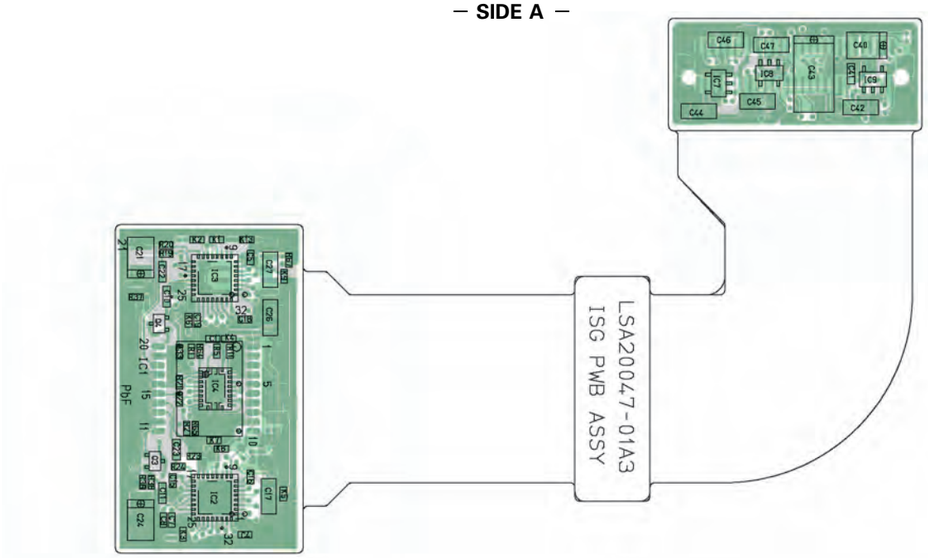
4.9 ISR SCHEMATIC DIAGRAM 03



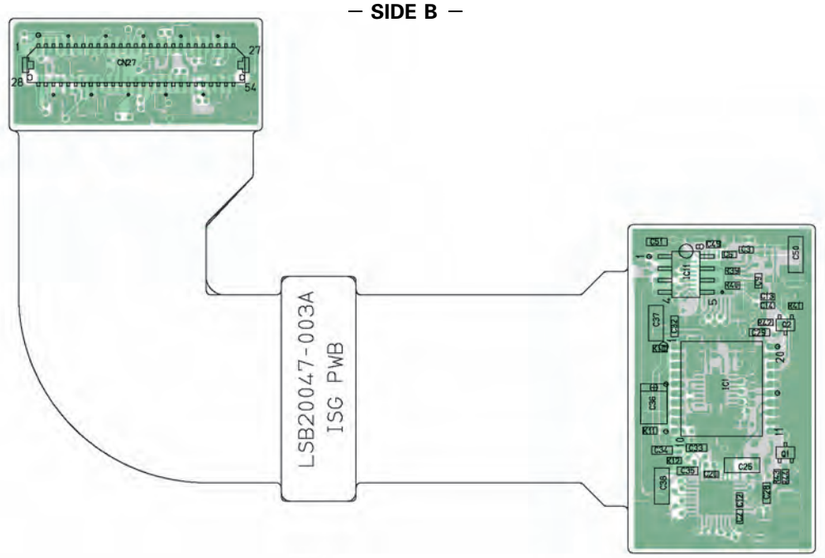
4.10 ISG, ISB, ISR CIRCUIT BOARDS

■ ISG

— SIDE A —

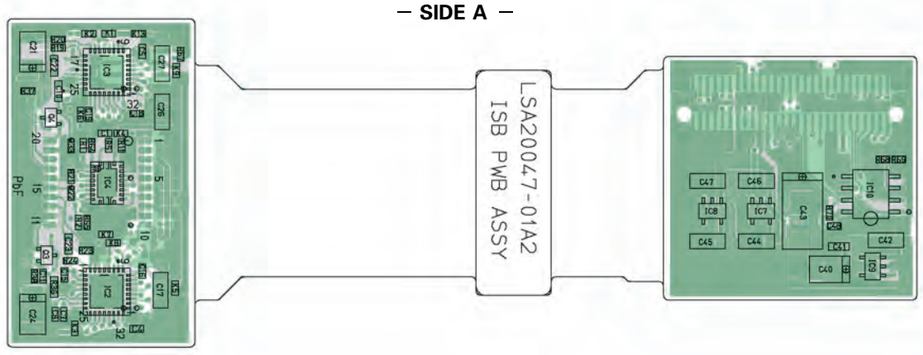


— SIDE B —

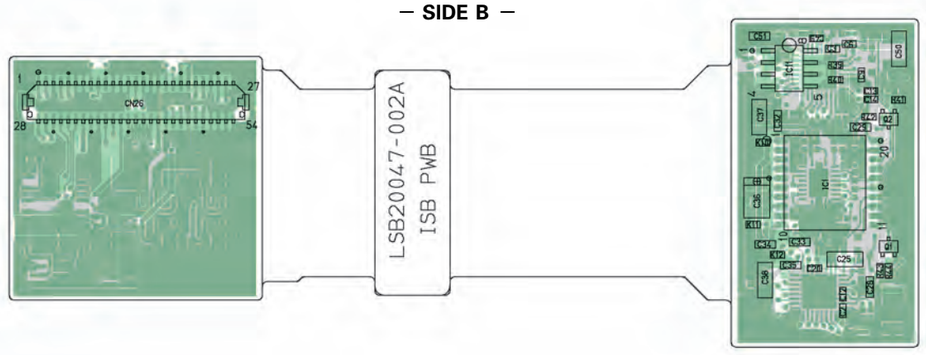


■ ISB

— SIDE A —

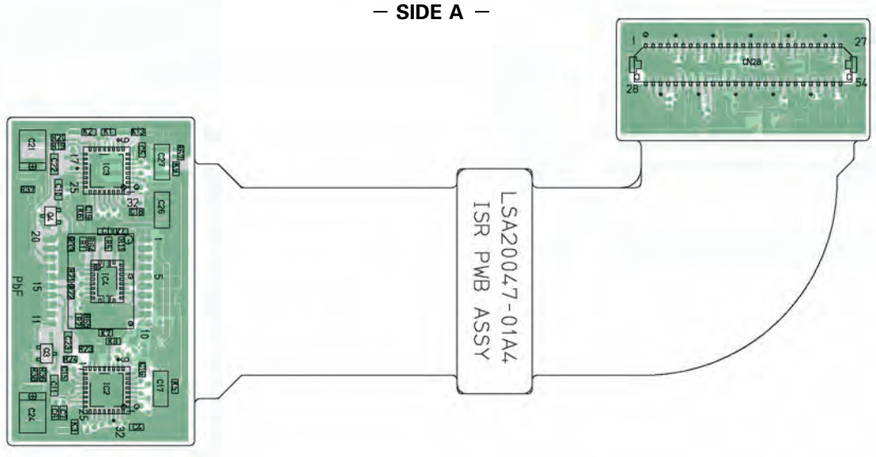


— SIDE B —

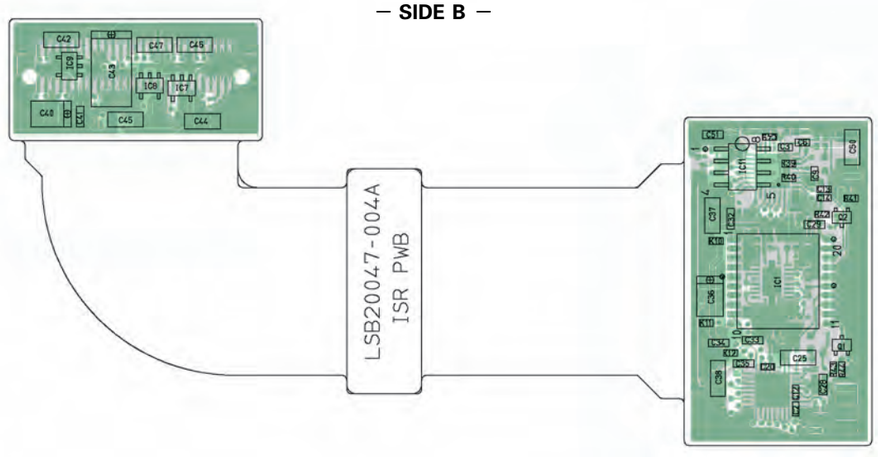


■ ISR

— SIDE A —



— SIDE B —



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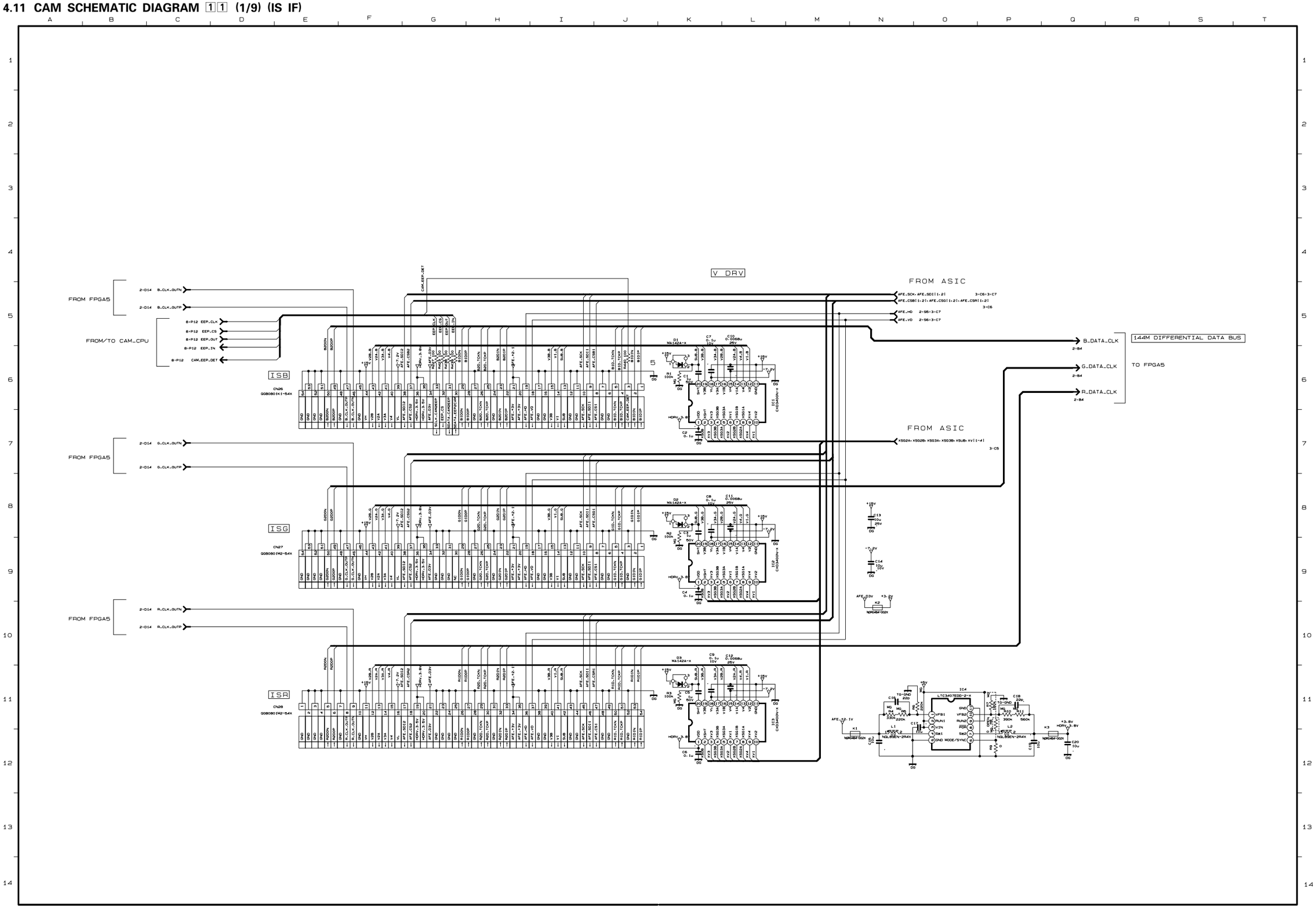
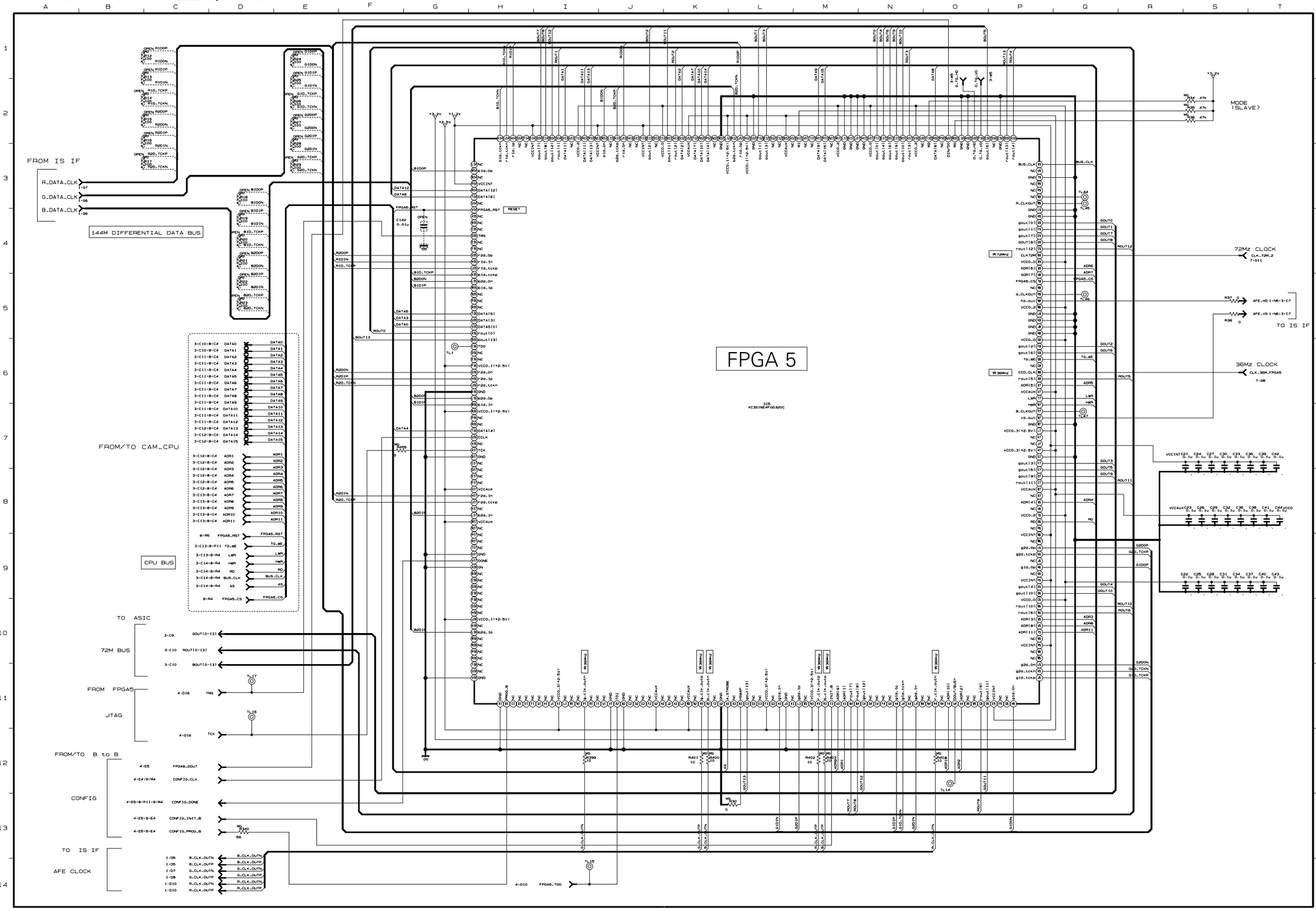
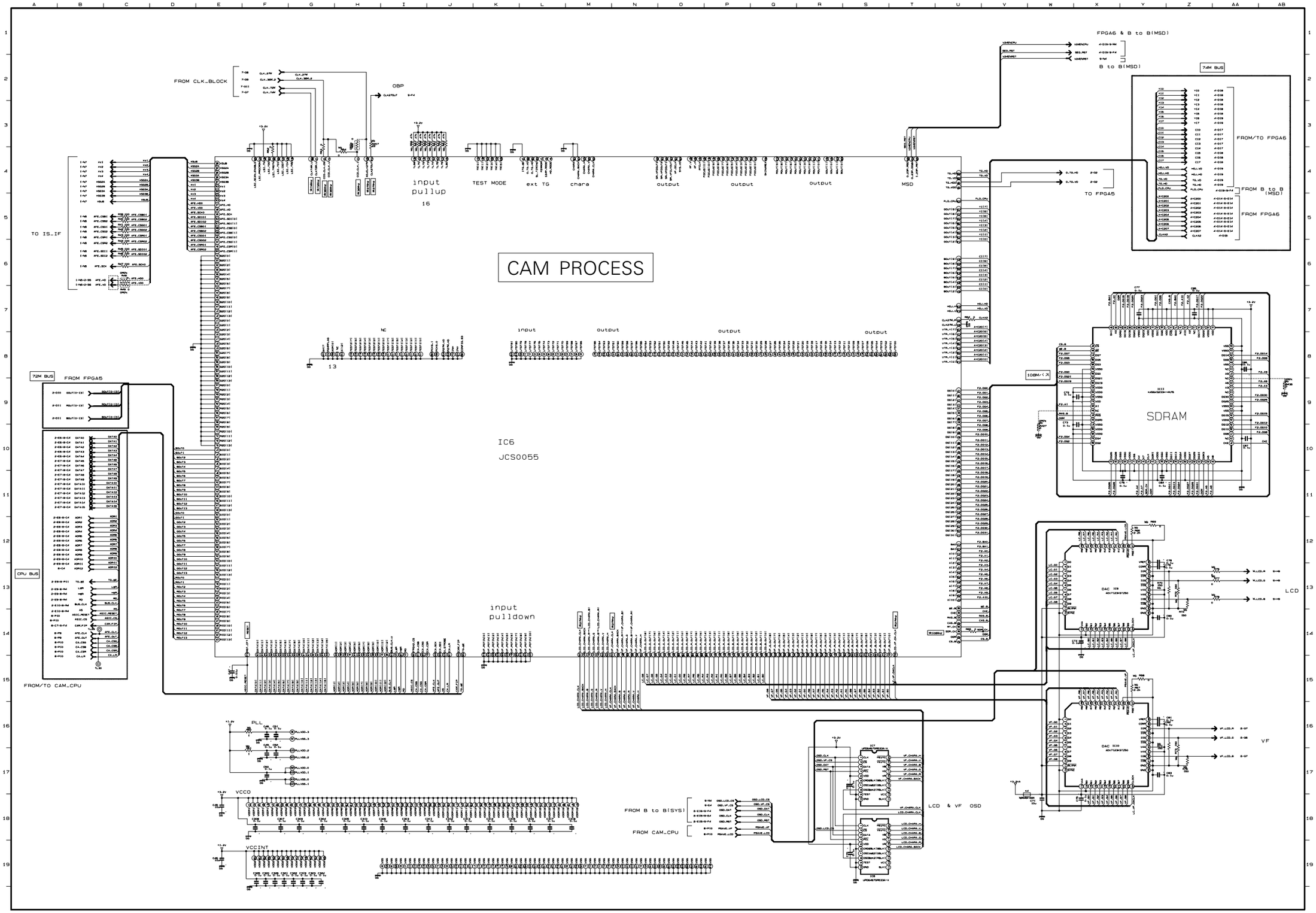
4.11 CAM SCHEMATIC DIAGRAM 11 (1/9) (IS IF)



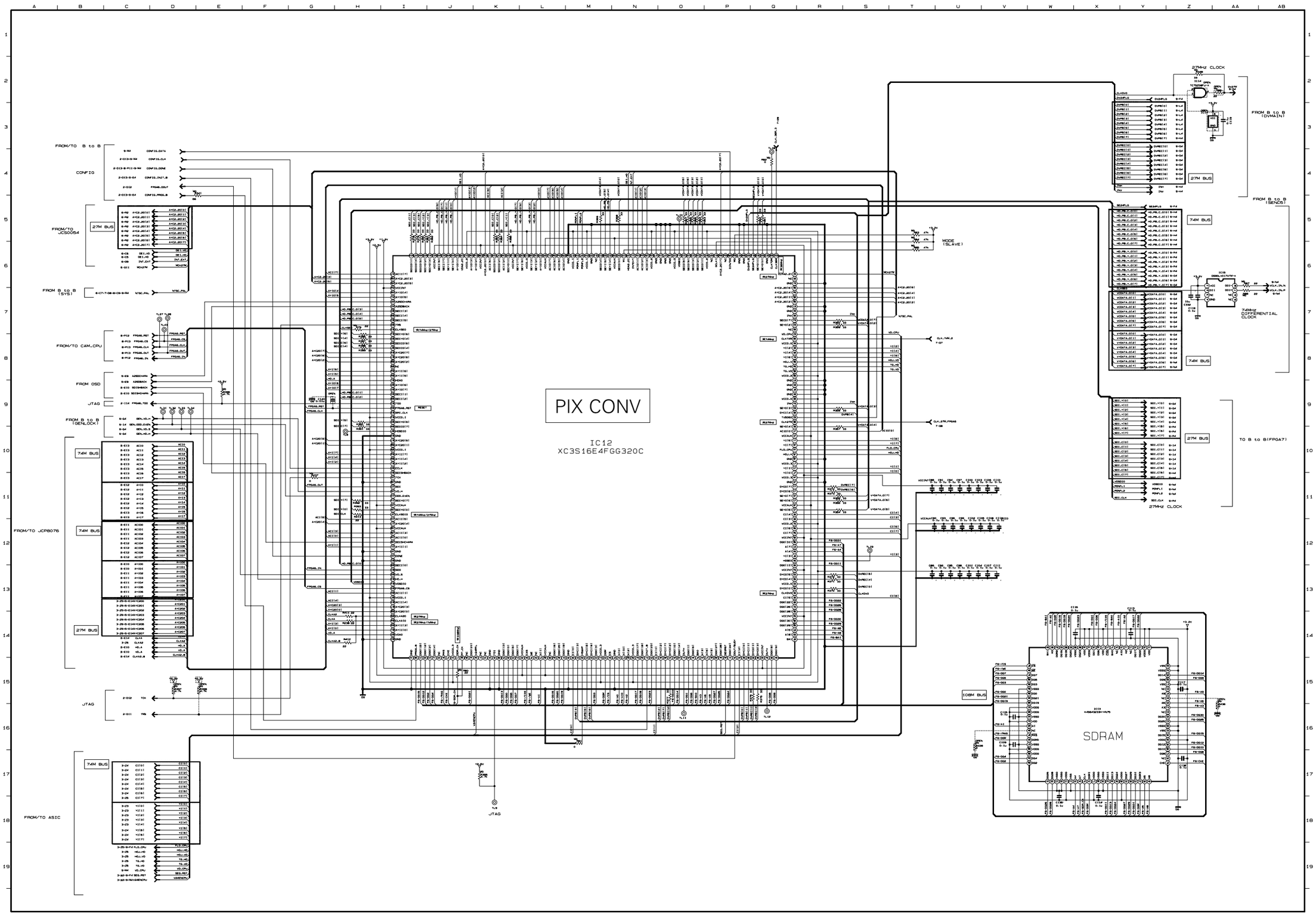
— CAM SCHEMATIC DIAGRAM 11 (2/9) (FPGA 5) —



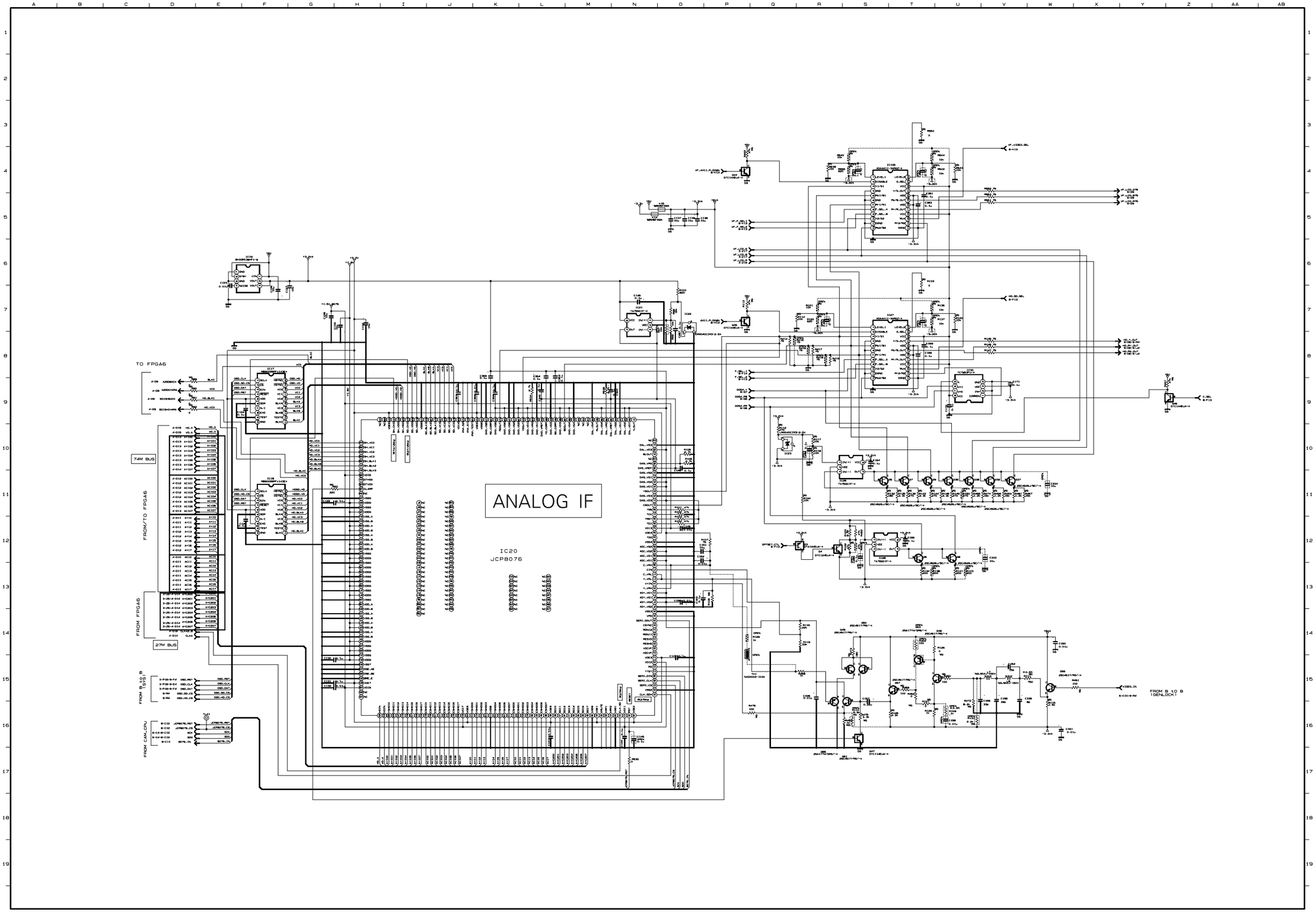
— CAM SCHEMATIC DIAGRAM 11 (3/9) (ASIC) —



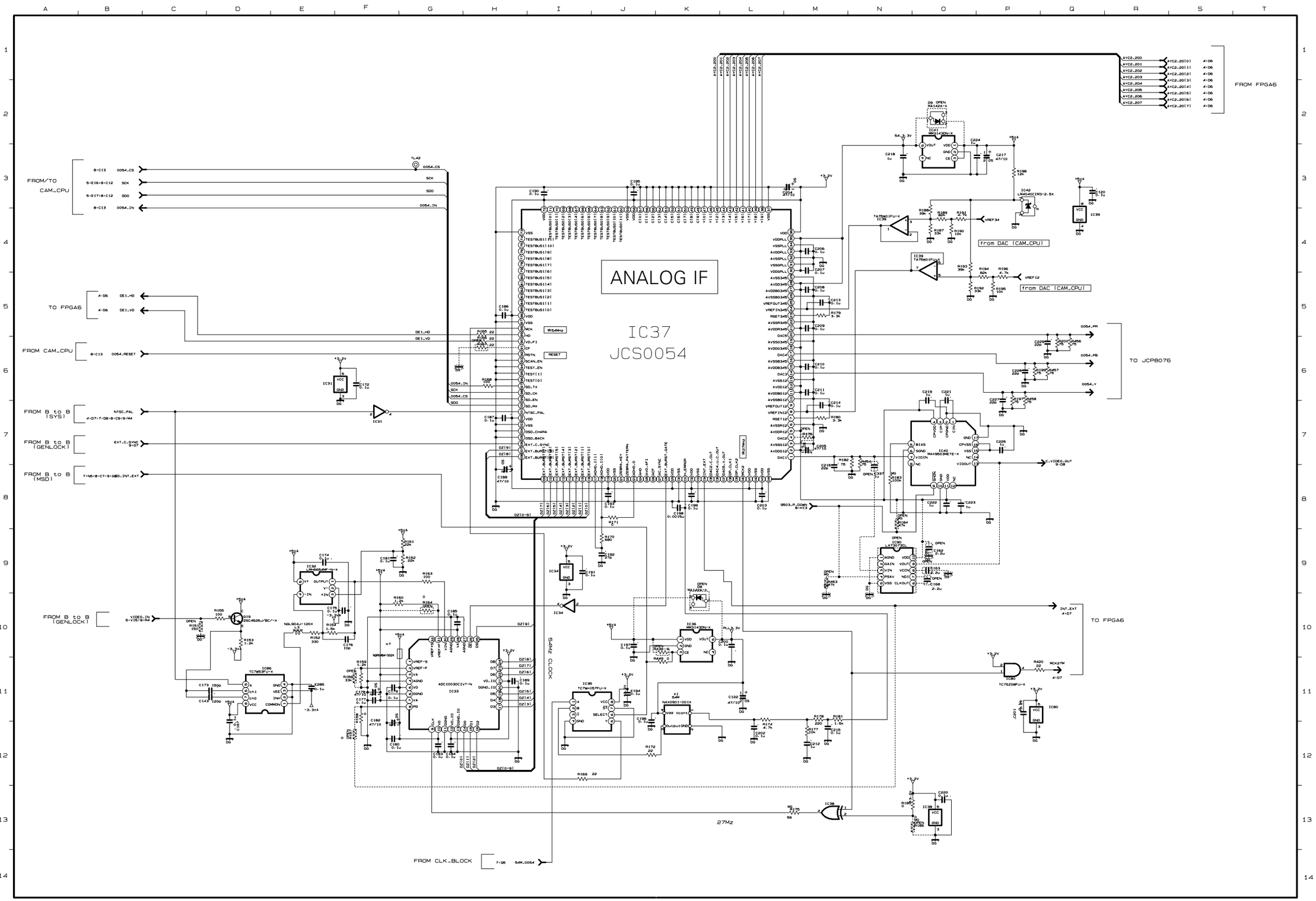
— CAM SCHEMATIC DIAGRAM 11 (4/9) (FPGA 6) —



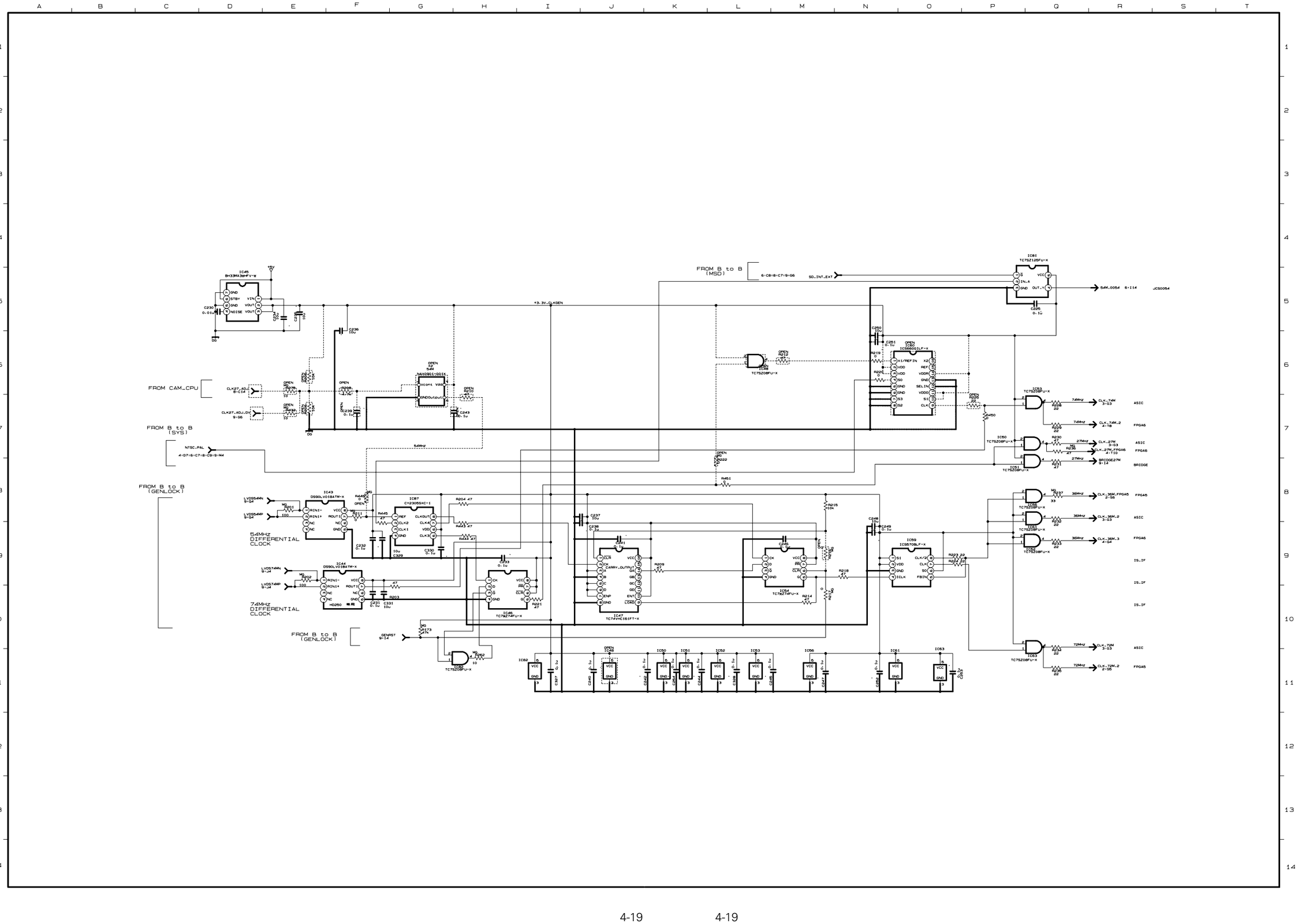
— CAM SCHEMATIC DIAGRAM 11 (5/9) (JCP8076) —



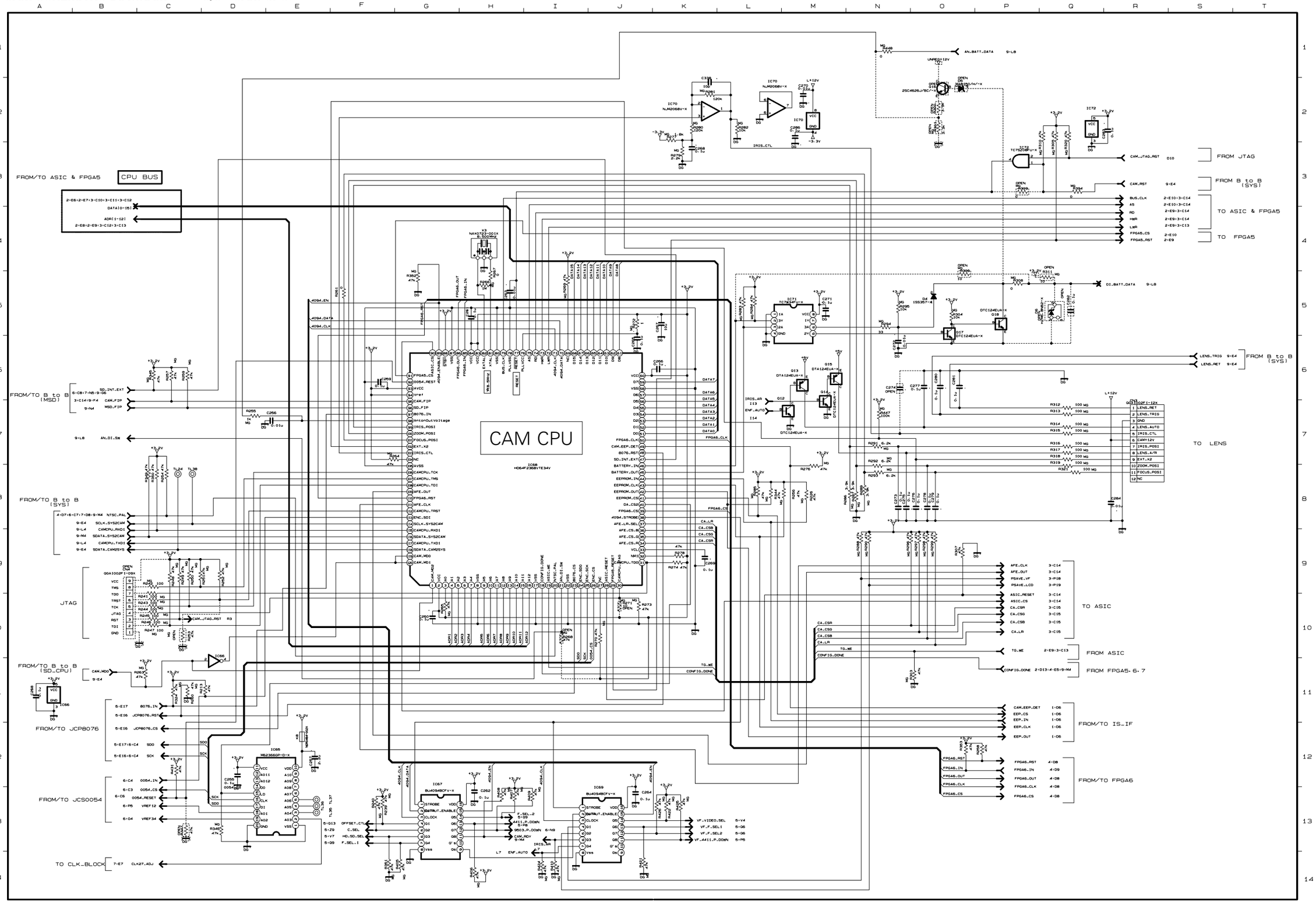
— CAM SCHEMATIC DIAGRAM 11 (6/9) (JCS0054) —



— CAM SCHEMATIC DIAGRAM 11 (7/9) (CLK BLOCK) —



— CAM SCHEMATIC DIAGRAM 11 (8/9) (CAM CPU) —



— CAM SCHEMATIC DIAGRAM 11 (9/9) (CONNECTION & POW) —

27M BUS

74M BUS

74M BUS

27M BUS

27MHZ CLOCK

74MHZ DIFFERENTIAL CLOCK

27M BUS

74MHZ DIFFERENTIAL CLOCK

74M BUS

74M BUS

27M BUS

27MHZ CLOCK

54MHZ DIFFERENTIAL CLOCK

IC79 TC7SZ08FU-X

CLK27.4DJ.DV 7:E7

SD_INT_EXT 6:CB:7:N5:8:C7

EXT_C_SYNC 6:CB

CN62 GDF060BF3-30X

CN30 GDF0534FI-20X

W_LCD_R 3:AA13

W_LCD_G 3:AA13

W_LCD_B 3:AA14

AN_D1_SW

AN_BATT_DATA

+1.2V/1.2A

IC85 LTC3411EDD-X

+1.8V_REG

IC84 MM3142JN-X

+2.5V_REG

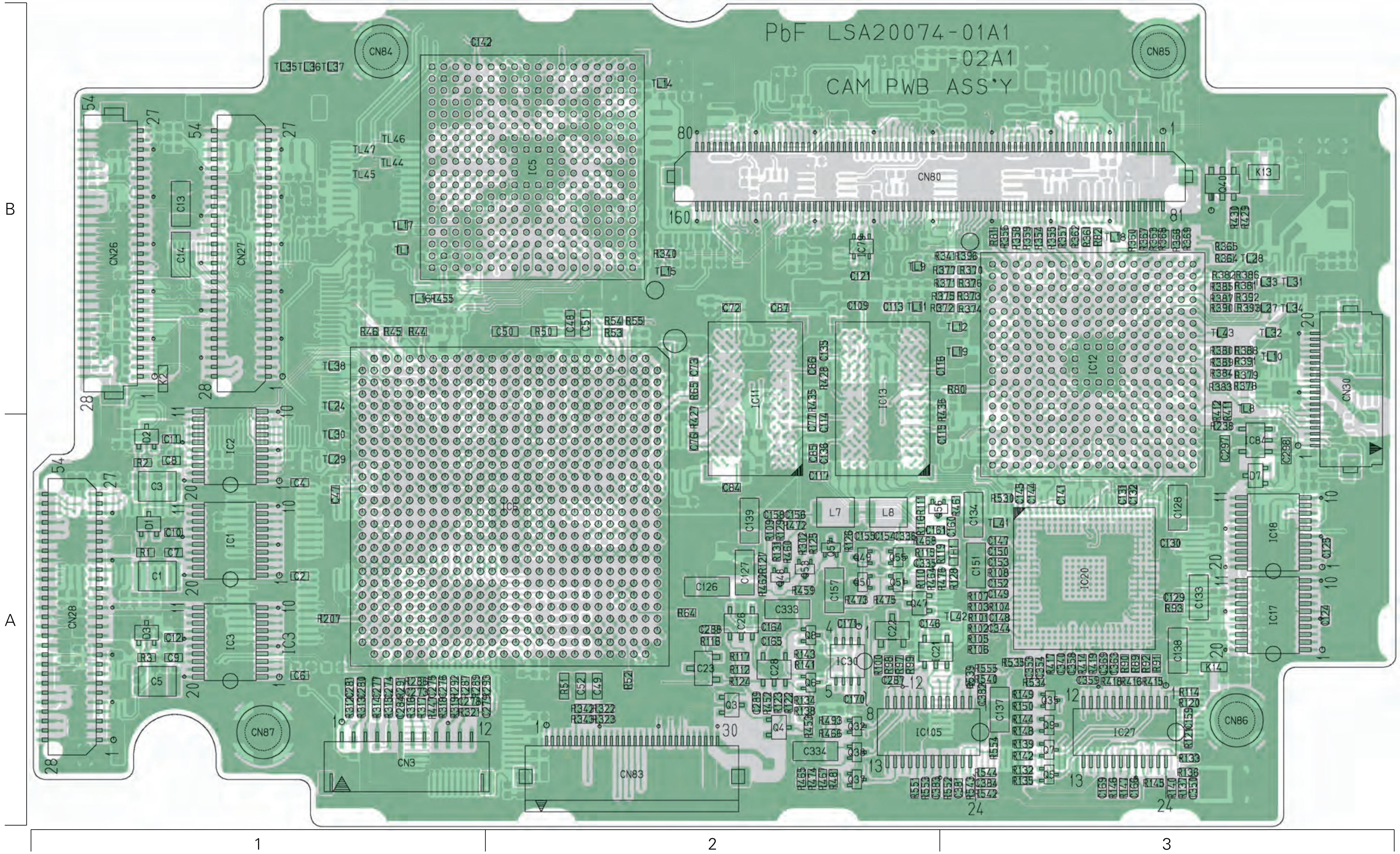
IC83 LTC3407EDD-2-X

CN98 CN98 CN98 CN91

CN95 CN97 CN96 CN94

4.12 CAM CIRCUIT BOARD

— SIDE A —



● **ADDRESS TABLE OF BOARD PARTS**

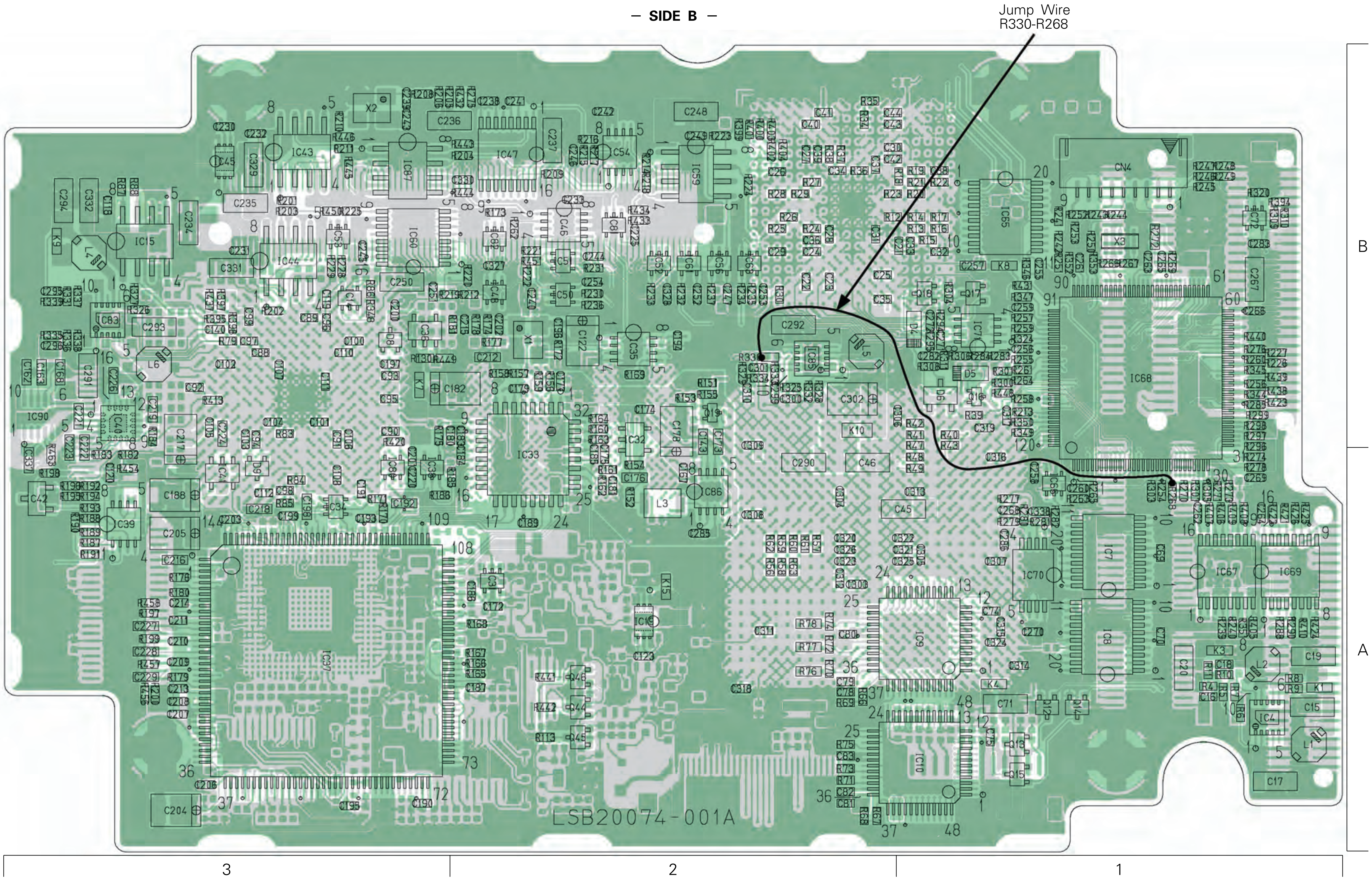
Each address may have an address error by one interval.

A-1C: Side — Y axis — X axis

IC1	A-1A	IC21	A-2A	IC43	B-3B	IC68	B-1B	Q5	A-3A	Q45	B-2A	D8	B-3B	R17	B-1B	R39	B-1B
IC2	A-1A	IC22	A-2A	IC44	B-3B	IC69	B-1A	Q6	A-2A	Q46	B-2A	D9	B-3A	R18	B-1B	R40	B-1B
IC3	A-1A	IC23	A-2A	IC45	B-3B	IC70	B-1A	Q7	A-3A	Q47	A-2A			R19	B-1B	R41	B-1B
IC4	B-1A	IC26	A-2A	IC46	B-2B	IC71	B-1B	Q8	A-2A	Q48	A-2A	R1	A-1A	R20	B-1B	R42	B-1B
IC5	A-2B	IC27	A-3A	IC47	B-2B	IC72	B-1B	Q9	A-3A	Q49	A-2A	R2	A-1A	R21	B-1B	R43	B-1A
IC6	A-2A	IC28	A-2A	IC48	B-2B	IC79	A-2B	Q12	B-1A	Q50	A-2A	R3	A-1A	R22	B-1B	R44	A-1B
IC7	B-1A	IC30	A-2A	IC50	B-2B	IC80	B-3A	Q13	B-1A	Q51	A-2A	R4	B-1A	R23	B-2B	R45	A-1B
IC8	B-1A	IC31	B-2A	IC51	B-2B	IC81	B-2B	Q14	B-1A	Q53	A-2A	R5	B-1A	R24	B-2B	R46	A-1B
IC9	B-1A	IC32	B-2B	IC52	B-2B	IC82	B-2B	Q15	B-1A	Q55	A-2A	R6	B-1A	R25	B-2B	R47	B-1A
IC10	B-1A	IC33	B-2A	IC53	B-3B	IC83	B-3B	Q16	B-1B	Q56	A-2A	R7	B-1A	R26	B-2B	R48	B-1A
IC11	A-2B	IC34	B-3A	IC54	B-2B	IC84	A-3A	Q17	B-1B	Q57	A-2A	R8	B-1A	R27	B-2B	R49	B-1A
IC12	A-3B	IC35	B-2B	IC56	B-2B	IC85	B-2B	Q18	B-1B			R9	B-1A	R28	B-2B	R50	A-2B
IC13	A-2B	IC36	B-3B	IC59	B-2B	IC86	B-2A	Q19	B-2B	D1	A-1A	R10	B-1A	R29	B-2B	R51	A-2A
IC14	B-3B	IC37	B-3A	IC60	B-3B	IC87	B-3B	Q32	A-2A	D2	A-1A	R11	B-1A	R30	B-2B	R52	A-2A
IC15	B-3B	IC38	B-3A	IC61	B-2B	IC90	B-3B	Q35	A-3A	D3	A-1A	R12	B-2B	R34	B-2B	R53	A-2B
IC17	A-3A	IC39	B-3A	IC63	B-2B	IC105	A-2A	Q37	A-2A	D4	B-1B	R13	B-1B	R35	B-2B	R54	A-2B
IC18	A-3A	IC40	B-3B	IC65	B-1B			Q38	A-2A	D5	B-1B	R14	B-1B	R36	B-2B	R55	A-2B
IC19	B-2A	IC41	B-3A	IC66	B-1A	Q3	A-2A	Q40	A-3B	D6	B-1B	R15	B-1B	R37	B-2B	R56	B-2A
IC20	A-3A	IC42	B-3A	IC67	B-1A	Q4	A-2A	Q44	B-2A	D7	A-3A	R16	B-1B	R38	B-2B	R57	B-2A

R58	B-2A	R77	B-2A	R99	A-2A	R118	A-2A	R137	A-3A	R156	B-2B	R175	B-3B	R194	B-3A	R213	B-1B
R59	B-2A	R78	B-2A	R100	A-2A	R119	A-2A	R138	A-2A	R157	B-2B	R176	B-3A	R195	B-3A	R214	B-2B
R60	B-2A	R79	B-3B	R101	A-3A	R120	A-3A	R139	A-3A	R158	B-2B	R177	B-2B	R196	B-3A	R215	B-2B
R61	B-2A	R80	A-3B	R102	A-3A	R121	A-3A	R140	A-3A	R159	B-2B	R178	B-2B	R197	B-3A	R216	B-2B
R62	B-2A	R81	A-3B	R103	A-3A	R122	A-2A	R141	A-2A	R160	B-2B	R179	B-3A	R198	B-3A	R217	B-2B
R63	B-2A	R82	A-3B	R104	A-3A	R123	A-2A	R142	A-3A	R161	B-2A	R180	B-3A	R199	B-3A	R218	B-2B
R64	A-2A	R83	B-3B	R105	A-3A	R124	A-2A	R143	A-2A	R162	B-2A	R181	B-2B	R200	B-3A	R219	B-2B
R65	A-2B	R84	B-3A	R106	A-3A	R125	A-2A	R144	A-3A	R163	B-2B	R182	B-3A	R201	B-3B	R220	B-2B
R66	B-2A	R85	B-3A	R107	A-3A	R126	A-2A	R145	A-3A	R164	B-2B	R183	B-3A	R202	B-3B	R221	B-2B
R67	B-2A	R86	B-3B	R108	A-3A	R127	A-2A	R146	A-3A	R165	B-2A	R184	B-3B	R203	B-3B	R222	B-2B
R68	B-2A	R87	B-3B	R109	A-2A	R128	A-3A	R147	A-3A	R166	B-2A	R185	B-2A	R204	B-2B	R223	B-2B
R69	B-2A	R88	B-3B	R110	A-2A	R129	A-2A	R148	A-3A	R167	B-2A	R186	B-3A	R205	B-2B	R224	B-2B
R70	B-2A	R89	A-3A	R111	A-2A	R130	B-3B	R149	A-3A	R168	B-2A	R187	B-3A	R206	B-3B	R225	B-3B
R71	B-2A	R90	A-3A	R112	A-2A	R131	A-2A	R150	A-3A	R169	B-2B	R188	B-3A	R207	A-1A	R226	B-1B
R72	B-2A	R91	A-3A	R113	B-2A	R132	A-3A	R151	B-2B	R170	B-3A	R189	B-3A	R208	B-3B	R227	B-1B
R73	B-2A	R92	A-3A	R114	A-3A	R133	A-3A	R152	B-2A	R171	B-3A	R190	B-3A	R209	B-2B	R228	B-3B
R74	B-2A	R93	A-3A	R115	A-2A	R134	A-2A	R153	B-2B	R172	B-2B	R191	B-3A	R210	B-3B	R229	B-3B
R75	B-2A	R97	A-2A	R116	A-2A	R135	A-3A	R154	B-2A	R173	B-2B	R192	B-3A	R211	B-3B	R230	B-2B
R76	B-2A	R98	A-2A	R117	A-2A	R136	A-3A	R155	B-2B	R174	B-2B	R193	B-3A	R212	B-2B	R231	B-2B

R232	B-2B	R251	B-1B	R270	B-1A	R289	A-1A	R308	B-1B	R327	B-3B	R346	B-1B	R365	A-3B	R384	A-3B
R233	B-2B	R252	B-1B	R271	B-1A	R290	B-1A	R309	B-1B	R328	B-2B	R347	B-1B	R366	A-3B	R385	A-3B
R234	B-2B	R253	B-1B	R272	B-1B	R291	A-1A	R310	B-1B	R329	B-2B	R348	B-3B	R367	A-3B	R386	A-3B
R235	B-2B	R254	B-1A	R273	B-1A	R292	A-1A	R311	B-1B	R330	B-2B	R349	B-1B	R368	A-3B	R387	A-3B
R236	B-2B	R255	B-1B	R274	B-1A	R293	A-1A	R312	A-1A	R331	B-3B	R350	B-1B	R369	A-3B	R388	A-3B
R237	B-2B	R256	B-1B	R275	B-2B	R294	B-1B	R313	A-1A	R332	B-2B	R351	B-1A	R370	A-3B	R389	A-3B
R238	A-3A	R257	B-1B	R276	B-1B	R295	B-1B	R314	A-1A	R333	B-2B	R352	B-1B	R371	A-2B	R390	A-3B
R239	B-1A	R258	B-1B	R277	B-1A	R296	B-1A	R315	A-1A	R334	B-2B	R353	B-1B	R372	A-2B	R391	A-3B
R240	B-1A	R259	B-1B	R278	B-1A	R297	B-1B	R316	A-1A	R335	B-3B	R354	A-3B	R373	A-3B	R392	A-3B
R241	B-1B	R260	B-1B	R279	B-1A	R298	B-1B	R317	A-1A	R336	B-3B	R355	A-3B	R374	A-3B	R393	A-3B
R242	B-1B	R261	B-1B	R280	B-1A	R299	B-1B	R318	A-1A	R337	B-3B	R356	A-3B	R375	A-2B	R394	B-1B
R243	B-1B	R262	B-2B	R281	B-1A	R300	B-1B	R319	A-1A	R338	B-3B	R357	A-3B	R376	A-3B	R395	B-3B
R244	B-1B	R263	B-1A	R282	B-1A	R301	B-1B	R320	B-1B	R339	B-3B	R358	A-3B	R377	A-2B	R396	A-3B
R245	B-1B	R264	B-1B	R283	B-1B	R302	A-2A	R321	A-1A	R340	A-2B	R359	A-3B	R378	A-3B	R397	B-3B
R246	B-1B	R265	B-1A	R284	B-1B	R303	B-1A	R322	A-2A	R341	A-2B	R360	A-3B	R379	A-3B	R398	B-3B
R247	B-1B	R266	B-1B	R285	B-1B	R304	B-1B	R323	A-2A	R342	A-2A	R361	A-3B	R380	A-3B	R399	B-2B
R248	B-1B	R267	B-1B	R286	A-1A	R305	B-1A	R324	B-1B	R343	A-2A	R362	A-3B	R381	A-3B	R400	B-2B
R249	B-1B	R268	B-1A	R287	A-1A	R306	B-1B	R325	B-2B	R344	B-1B	R363	A-3B	R382	A-3B	R401	B-2B
R250	B-1B	R269	B-1B	R288	B-1A	R307	B-1A	R326	B-3B	R345	B-1B	R364	A-3B	R383	A-3B	R402	B-2B



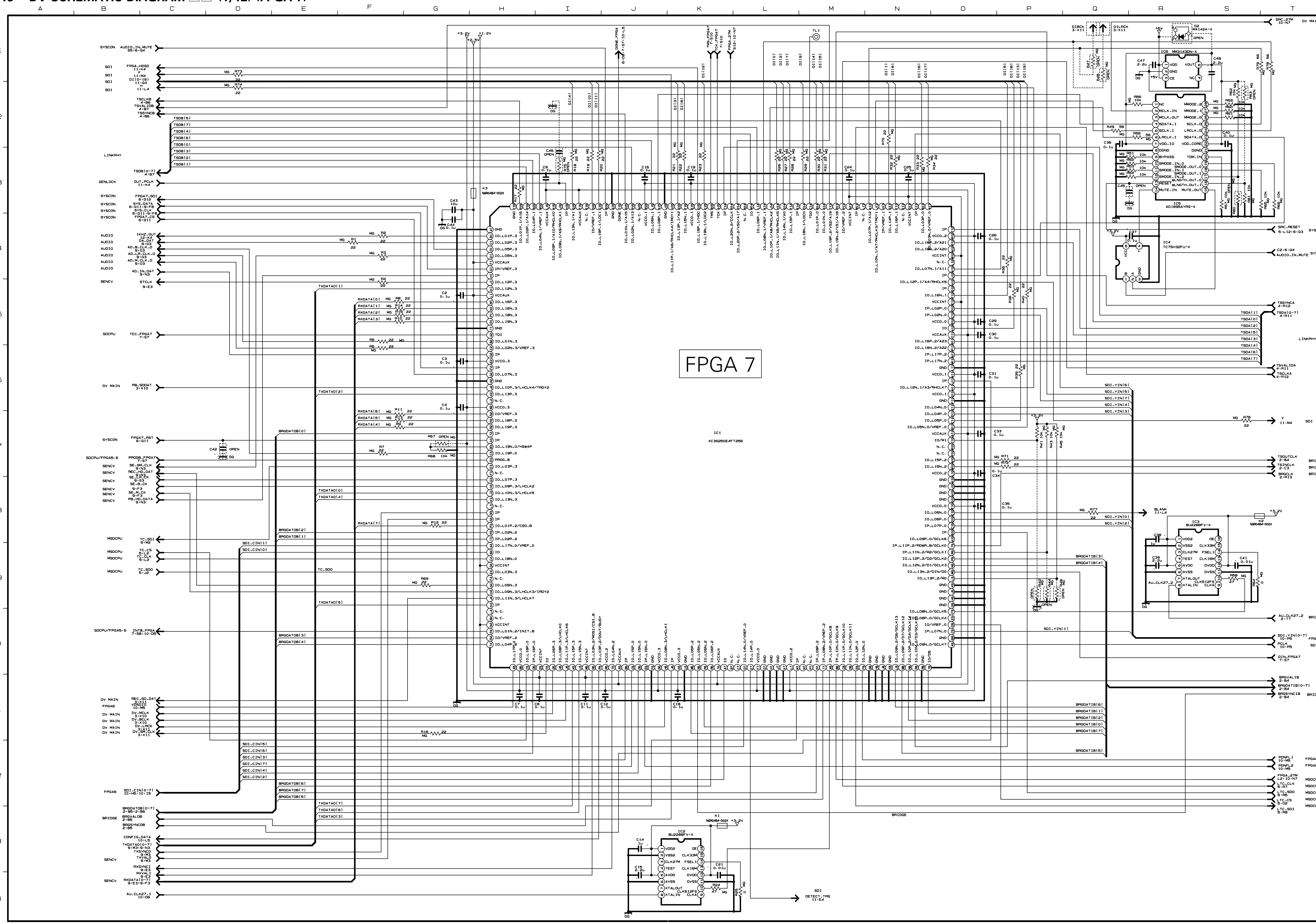
R403	B-2B	R422	B-1A	R441	B-2A	R460	A-2A	R539	A-3A	C9	A-1A	C28	B-2B
R404	B-2B	R423	B-1B	R442	B-2A	R461	A-3A	R540	A-3A	C10	A-1A	C29	B-2B
R405	B-1A	R424	B-1A	R443	B-2B	R462	A-2A	R542	A-3A	C11	A-1A	C30	B-2B
R406	B-1A	R425	B-1A	R444	B-2B	R463	B-3A	R543	A-3A	C12	A-1A	C31	B-2B
R407	B-1A	R426	B-1A	R445	B-3B	R464	A-2A	R544	A-3A	C13	A-1B	C32	B-1B
R408	B-1A	R427	A-2A	R446	B-3B	R465	A-2A	R551	A-2A	C14	A-1B	C33	B-1B
R409	B-1A	R428	A-2B	R447	A-1A	R466	A-2A	R552	A-2A	C15	B-1A	C34	B-2B
R410	B-1A	R429	A-3B	R448	B-1B	R467	A-2A	R553	A-2A	C16	B-1A	C35	B-2B
R411	A-3A	R430	A-3B	R449	B-2B	R468	A-2A	R554	A-3A	C17	B-1A	C36	B-2B
R412	A-3A	R431	B-1B	R450	B-3B	R472	A-2A	R555	A-3A	C18	B-1A	C37	B-2B
R413	B-3B	R432	B-2B	R451	B-2B	R473	A-2A			C19	B-1A	C38	B-1B
R414	A-3A	R433	B-2B	R452	A-2A	R474	A-2A	C1	A-1A	C20	B-1A	C39	B-2B
R415	A-3A	R434	B-2B	R453	A-2A	R475	A-2A	C2	A-1A	C21	B-1B	C40	B-2B
R416	A-3A	R435	A-2B	R454	B-3A	R476	A-2A	C3	A-1A	C22	B-2B	C41	B-2B
R417	A-3A	R436	A-2A	R455	A-1B	R481	A-2A	C4	A-1A	C23	B-2B	C42	B-2B
R418	A-3A	R437	B-3B	R456	B-3A	R493	A-2A	C5	A-1A	C24	B-2B	C43	B-2B
R419	A-3A	R438	B-1B	R457	B-3A	R530	A-3A	C6	A-1A	C25	B-2B	C44	B-2B
R420	B-3A	R439	B-1B	R458	B-3A	R534	A-3A	C7	A-1A	C26	B-2B	C45	B-1A
R421	B-1A	R440	B-1B	R459	A-2A	R535	A-3A	C8	A-1A	C27	B-2B	C46	B-2A

C47	A-1A	C82	B-2A	C101	B-3B	C120	B-3A	C139	A-2A	C158	A-2A	C177	B-2B
C48	A-2B	C83	B-2A	C102	B-3B	C121	A-2B	C140	B-3B	C159	A-3A	C178	B-2B
C49	A-2A	C84	A-2A	C103	B-3B	C122	B-2B	C141	A-3A	C160	A-3A	C179	B-2B
C50	A-2B	C85	A-2A	C104	B-3B	C123	B-2A	C142	A-1B	C161	A-2A	C180	B-2B
C51	A-2B	C86	A-2B	C105	B-3B	C124	A-3A	C143	B-2A	C162	B-3B	C181	B-2A
C52	A-2A	C87	A-2B	C106	B-3B	C125	A-3A	C144	A-3A	C163	B-3B	C182	B-2B
C69	B-1A	C88	B-3B	C107	B-3B	C126	A-2A	C145	A-3A	C164	A-2A	C183	B-2B
C70	B-1A	C89	B-3B	C108	B-3A	C127	A-2A	C146	A-2A	C165	A-2A	C184	B-2A
C71	B-1A	C90	B-3B	C109	A-2B	C128	A-3A	C147	A-3A	C166	A-3A	C185	B-2A
C72	A-2B	C91	B-3B	C110	B-3B	C129	A-3A	C148	A-3A	C167	B-2A	C186	B-2A
C73	A-2B	C92	B-3B	C111	B-3B	C130	A-3A	C149	A-3A	C168	B-3B	C187	B-2A
C74	B-1A	C93	B-3B	C112	B-3A	C131	A-3A	C150	A-3A	C169	A-3A	C188	B-3A
C75	B-1A	C94	B-3B	C113	A-2B	C132	A-3A	C151	A-3A	C170	A-2A	C189	B-2A
C76	A-2A	C95	B-3B	C114	A-2A	C133	A-3A	C152	A-3A	C171	A-2A	C190	B-3A
C77	A-2A	C96	B-3B	C115	A-2A	C134	A-3A	C153	A-3A	C172	B-2A	C191	B-3A
C78	B-2A	C97	B-3B	C116	A-2B	C135	A-2B	C154	A-2A	C173	B-2A	C192	B-3A
C79	B-2A	C98	B-3A	C117	A-2A	C136	A-2A	C155	A-2A	C174	B-2B	C193	B-3A
C80	B-2A	C99	B-3B	C118	B-3B	C137	A-3A	C156	A-2A	C175	B-2A	C194	B-2B
C81	B-2A	C100	B-3B	C119	B-3B	C138	A-3A	C157	A-2A	C176	B-2A	C195	B-3A

C196	B-2B	C215	B-2B	C234	B-3B	C253	B-2B	C272	B-1B	C291	B-3B	C310	B-2B
C197	B-3B	C216	B-3A	C235	B-3B	C254	B-2B	C273	A-1A	C292	B-2B	C311	B-2A
C198	B-3A	C217	B-3B	C236	B-2B	C255	B-1B	C274	A-1A	C293	B-3B	C312	B-2A
C199	B-3A	C218	B-3A	C237	B-2B	C256	B-1B	C275	A-1A	C294	B-3B	C313	B-1A
C200	B-3B	C219	B-3B	C238	B-2B	C257	B-1B	C276	A-1A	C295	B-3B	C314	B-1A
C201	B-3A	C220	B-3A	C239	B-3B	C258	B-1A	C277	A-1A	C296	B-3B	C315	B-1A
C202	B-2B	C221	B-3B	C240	B-2B	C259	B-1B	C278	A-1A	C297	A-3A	C316	B-1A
C203	B-3A	C222	B-3A	C241	B-2B	C260	B-1A	C279	A-1A	C298	A-3A	C317	B-1B
C204	B-3A	C223	B-3A	C242	B-2B	C261	B-1B	C280	A-1A	C299	B-2B	C318	B-2A
C205	B-3A	C224	B-3B	C243	B-3B	C262	B-1A	C281	A-1A	C300	B-2B	C319	B-1B
C206	B-3A	C225	B-2B	C244	B-2B	C263	B-1B	C282	B-1B	C301	B-2B	C320	B-2A
C207	B-3A	C226	B-3B	C245	B-3B	C264	B-1A	C283	B-1B	C302	B-2B	C321	B-1A
C208	B-3A	C227	B-3A	C246	B-2B	C265	B-1B	C284	A-1A	C303	B-2A	C322	B-1A
C209	B-3A	C228	B-3A	C247	B-2B	C266	B-1B	C285	B-2A	C304	B-2A	C323	B-2A
C210	B-3A	C229	B-3A	C248	B-2B	C267	B-1B	C286	B-1A	C305	B-1A	C324	B-1A
C211	B-3A	C230	B-3B	C249	B-2B	C268	B-1A	C287	A-2A	C306	B-1B	C325	B-1A
C212	B-2B	C231	B-3B	C250	B-3B	C269	B-1A	C288	A-2A	C307	B-1A	C326	B-2A
C213	B-3A	C232	B-3B	C251	B-3B	C270	B-1A	C289	A-2A	C308	B-2A	C327	B-2B
C214	B-3A	C233	B-2B	C252	B-2B	C271	B-1B	C290	B-2A	C309	B-2A	C328	B-2B

C329	B-3B	C381	A-3A	CN84	A-1B	TL9	A-2B	TL35	A-1B	L8	A-2A		
C330	B-2B	C382	A-3A	CN85	A-3B	TL10	A-3B	TL36	A-1B				
C331	B-3B	C383	A-2A	CN86	A-3A	TL11	A-2B	TL37	A-1B				
C332	B-3B	C384	A-3A	CN87	A-1A	TL12	A-3B	TL38	A-1B				
C333	A-2A					TL14	A-2B	TL41	A-3A				
C334	A-2A	X1	B-2B	K1	B-1A	TL15	A-2B	TL42	A-3A				
C335	A-2A	X2	B-3B	K2	A-1B	TL16	A-1B	TL43	A-3B				
C336	A-2A	X3	B-1B	K3	B-1A	TL17	A-1B	TL44	A-1B				
C337	B-3A			K4	B-1A	TL18	A-3B	TL45	A-1B				
C338	B-1A	TH1	A-3A	K7	B-3B	TL19	A-3B	TL46	A-1B				
C340	A-3A			K8	B-1B	TL24	A-1B	TL47	A-1B				
C344	A-3A	CN3	A-1A	K9	B-3B	TL27	A-3B						
C350	A-3A	CN4	B-1B	K10	B-2B	TL28	A-3B	L1	B-1A				
C353	A-3A	CN26	A-1B	K13	A-3B	TL29	A-1A	L2	B-1A				
C354	A-3A	CN27	A-1B	K14	A-3A	TL30	A-1A	L3	B-2A				
C358	A-3A	CN28	A-1A	K15	B-2A	TL31	A-3B	L4	B-3B				
C359	A-3A	CN30	A-3B			TL32	A-3B	L5	B-2B				
C363	A-3A	CN80	A-2B	TL1	A-1B	TL33	A-3B	L6	B-3B				
C369	A-3A	CN83	A-2A	TL8	A-3A	TL34	A-3B	L7	A-2A				

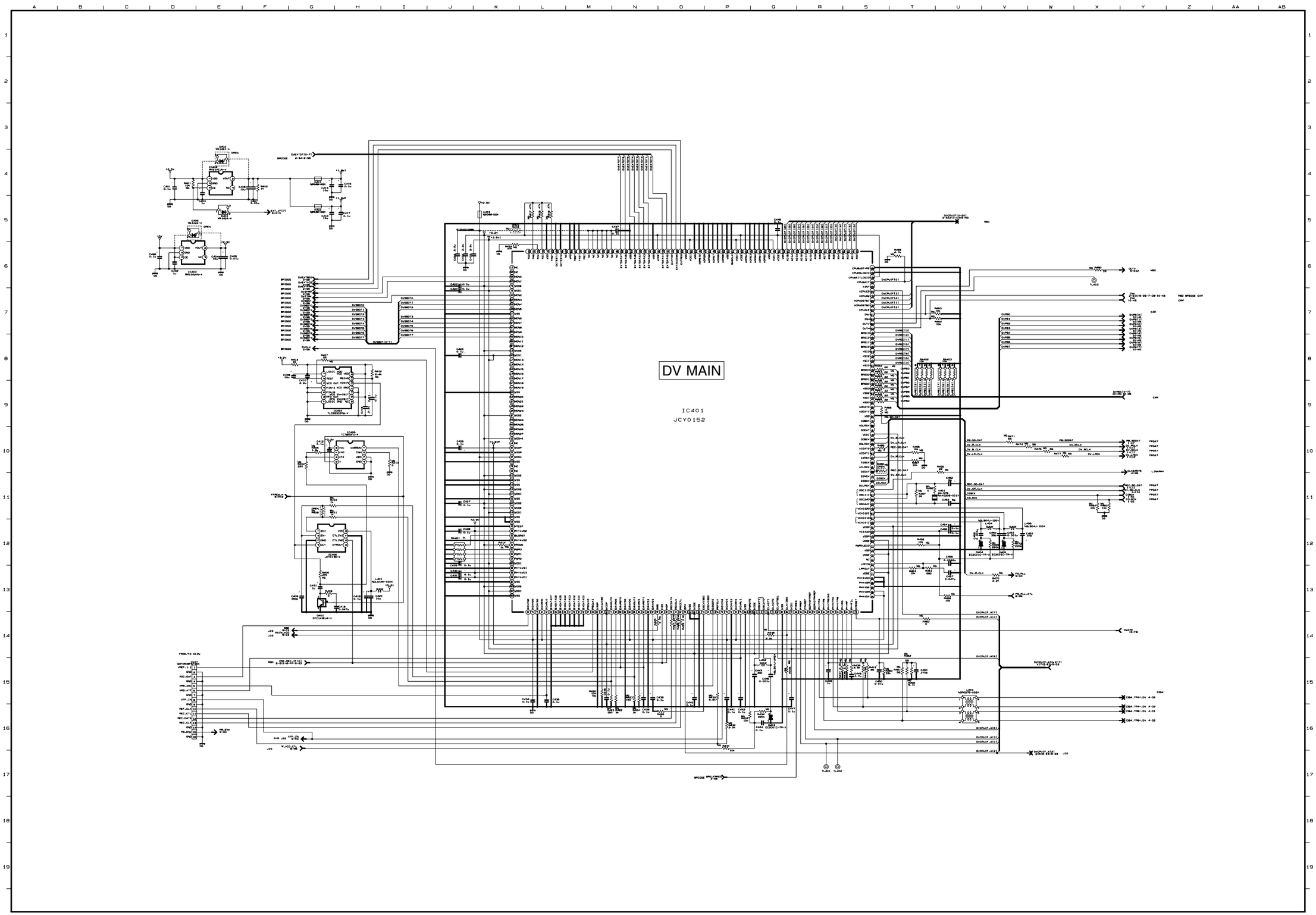
4.13 DV SCHEMATIC DIAGRAM 1 2 (1/12) (FPGA 7)

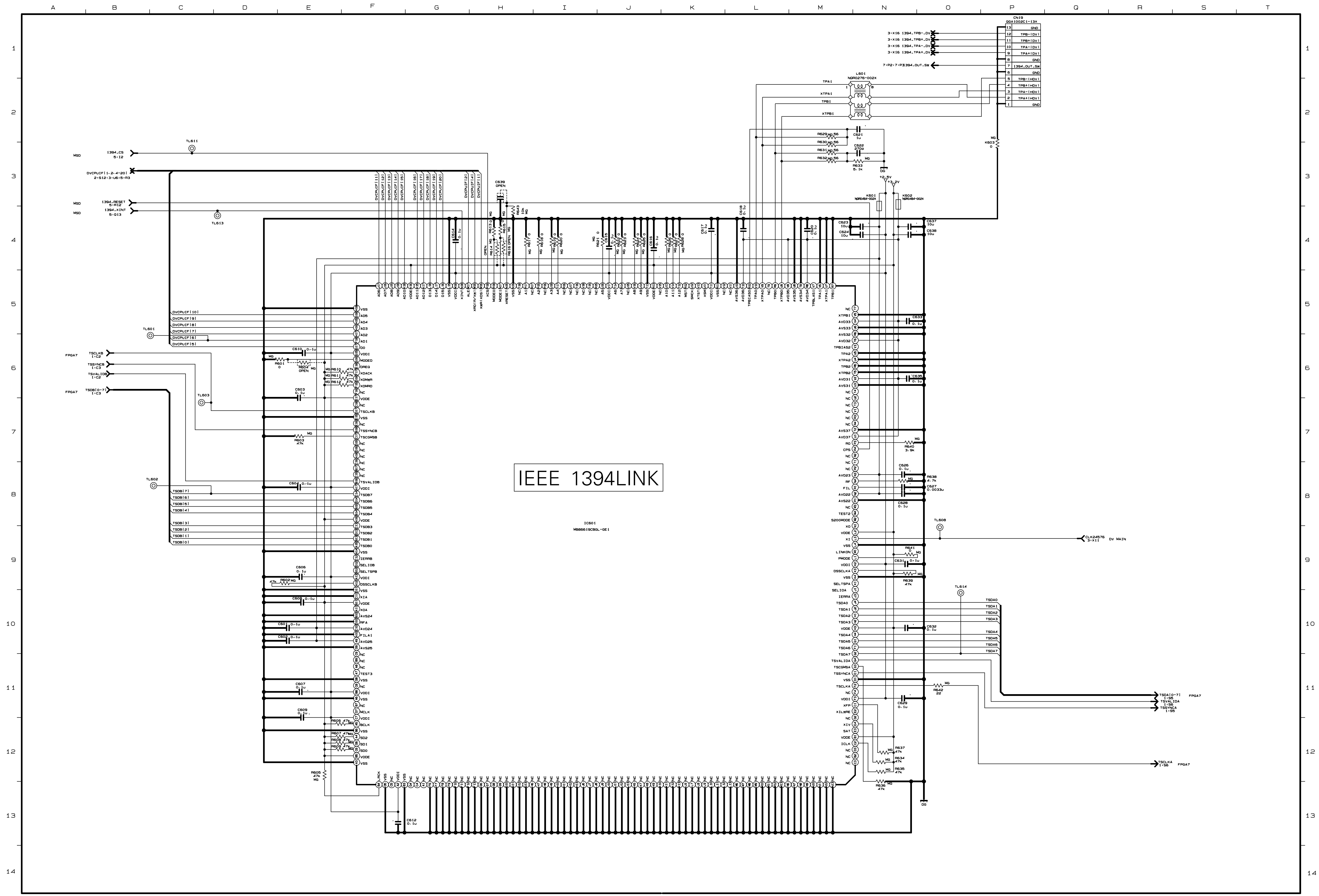


MPEG BRIDGE

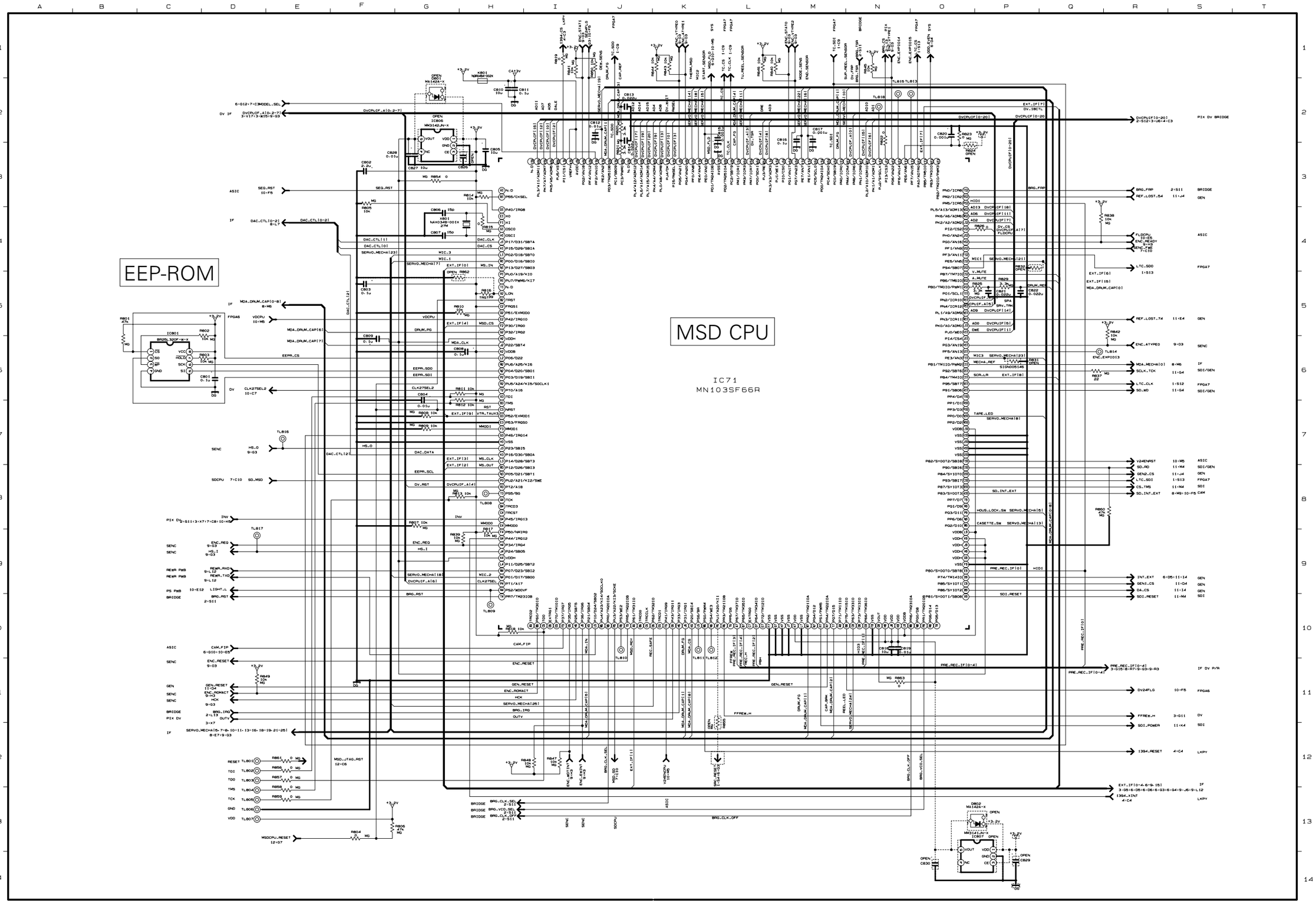
IC201
JCY0173

— DV SCHEMATIC DIAGRAM 1 2 (3/12) (DV MAIN) —

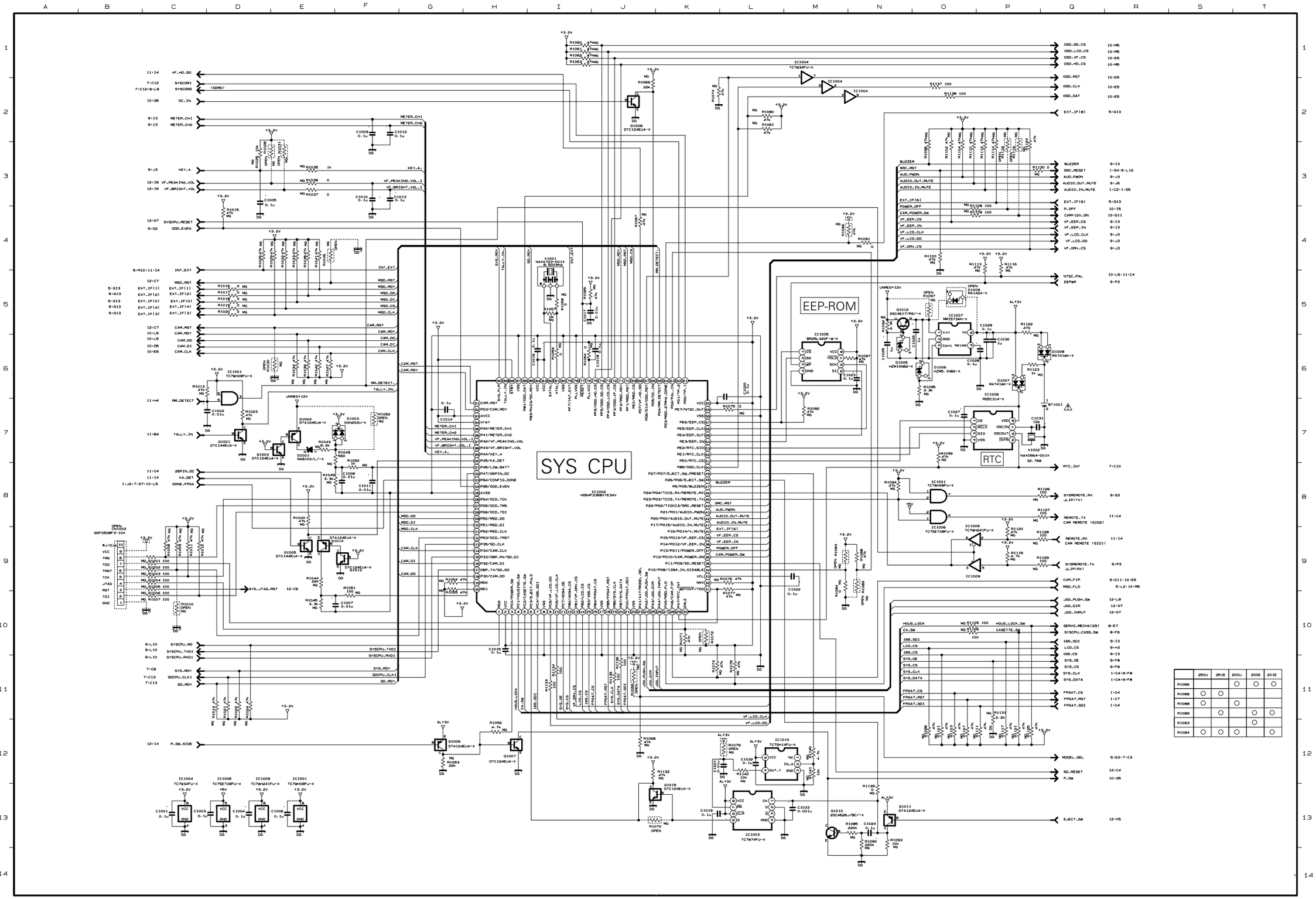



IEEE 1394LINK
IC601
MB86619CBGL-GE1
CN19
QGA1002C1-13X
L601
NQR0276-002X
K601
NQR0484-002X
K602
NQR0484-002X
1394_CS
1394_RESET
1394_XINT
DVCPUIF[1-2-4-20]
TSCLKB
TSSYNCB
TSVALIDB
TSDB[0-7]
TSDA[0-7]
TSVALIDA
TSSYNCA
TSCLKA
CLK24576
DV MAIN
FPGA7
MSD

— DV SCHEMATIC DIAGRAM 1 2 (5/12) (MSD CPU) —

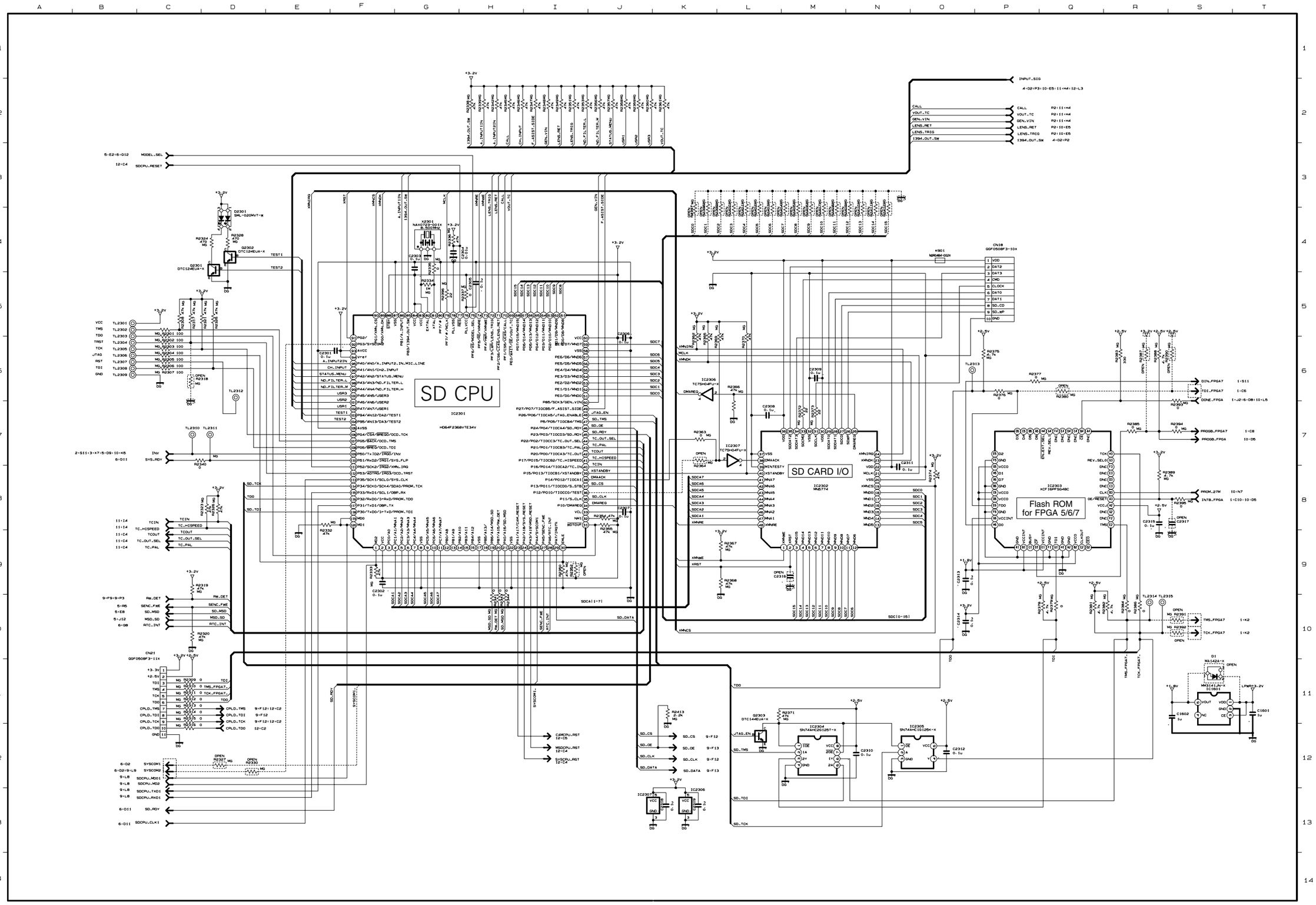


— DV SCHEMATIC DIAGRAM 12 (6/12) (SYS CPU) —

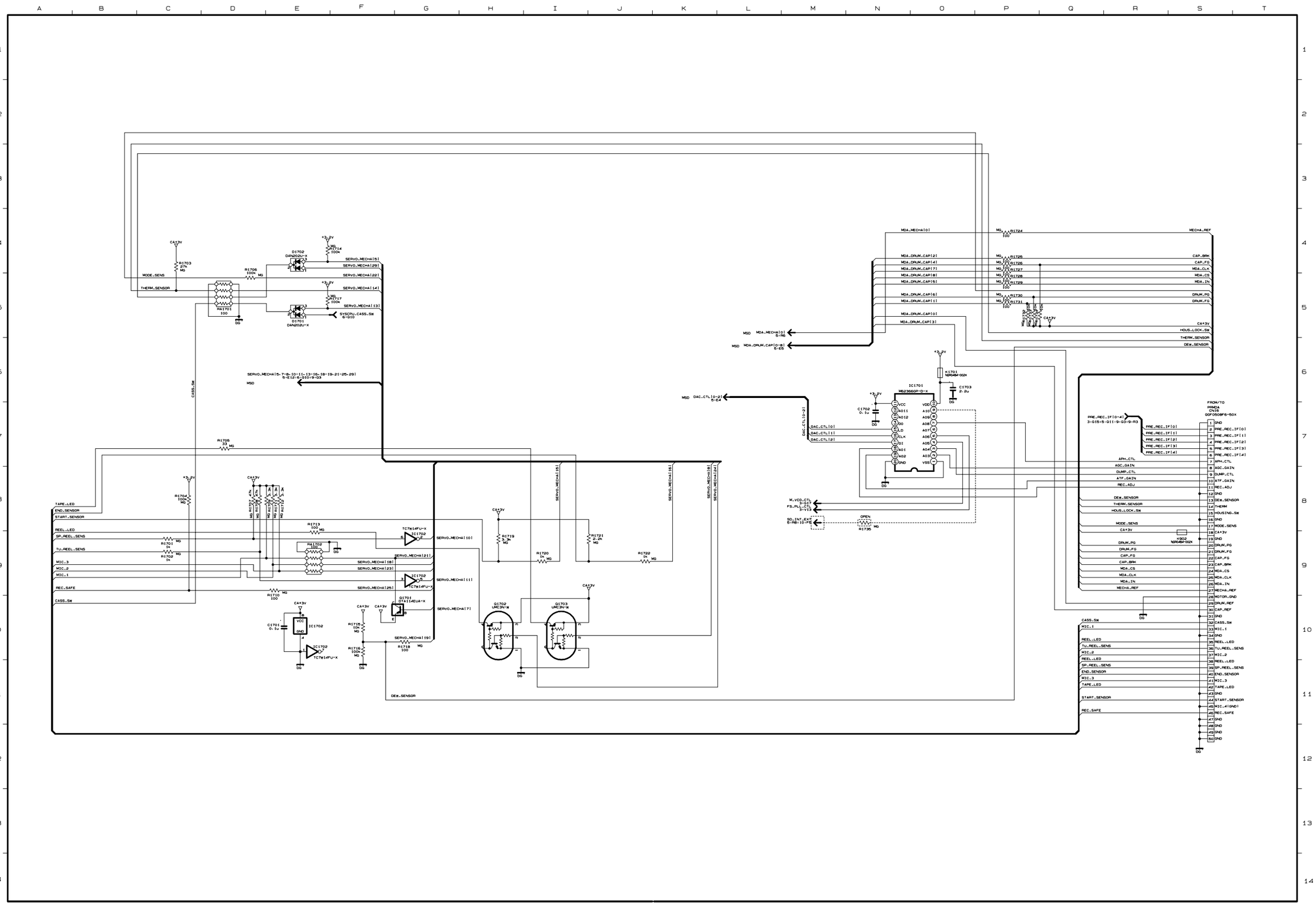


	250U	251E	200U	200E	201E
R1066			○	○	○
R1068	○	○			
R1088	○		○		
R1089		○		○	○
R1083				○	
R1084	○	○	○		○

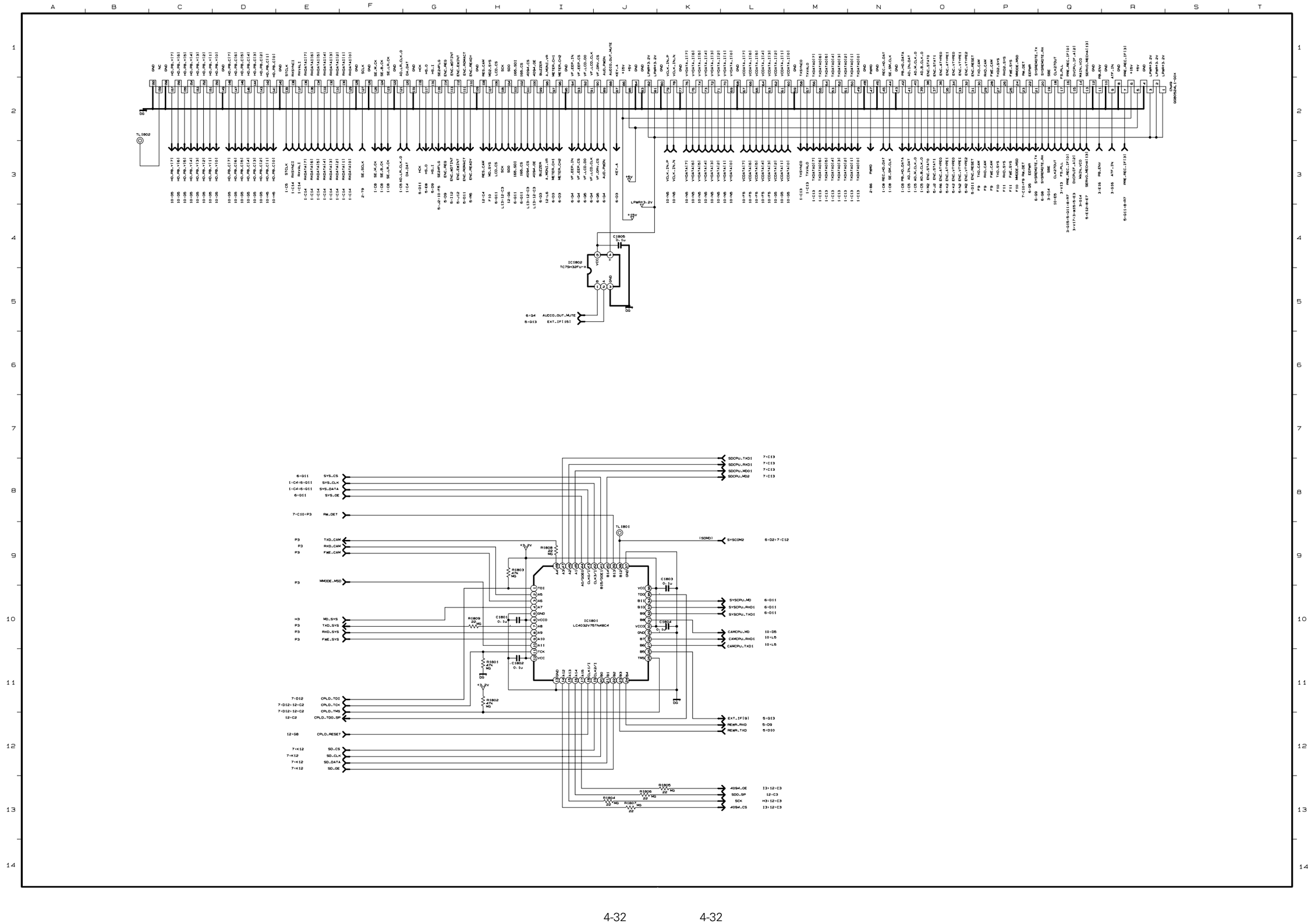
— DV SCHEMATIC DIAGRAM 1 2 (7/12) (SD CPU) —



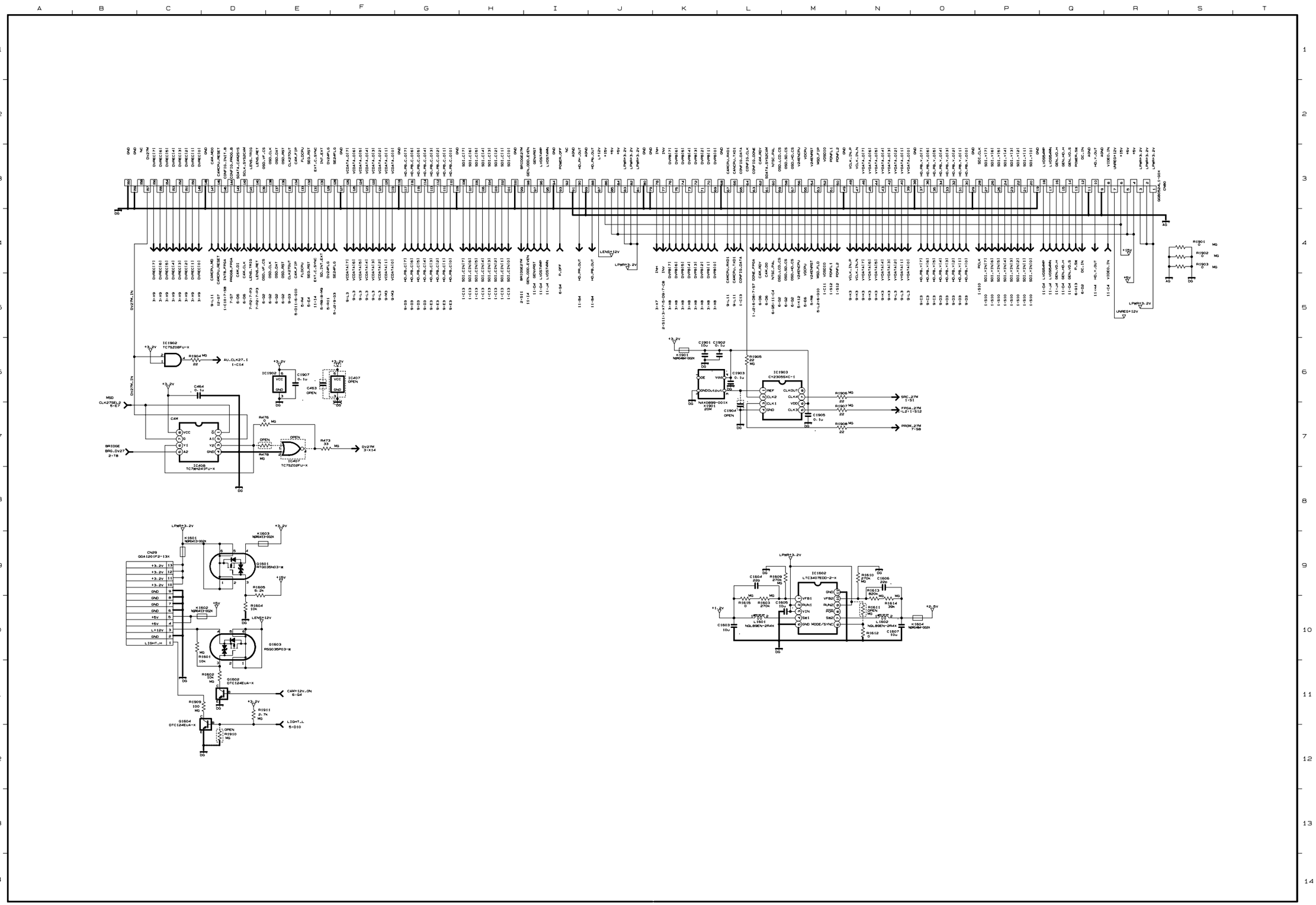
— DV SCHEMATIC DIAGRAM 12 (8/12) (MDA IF) —



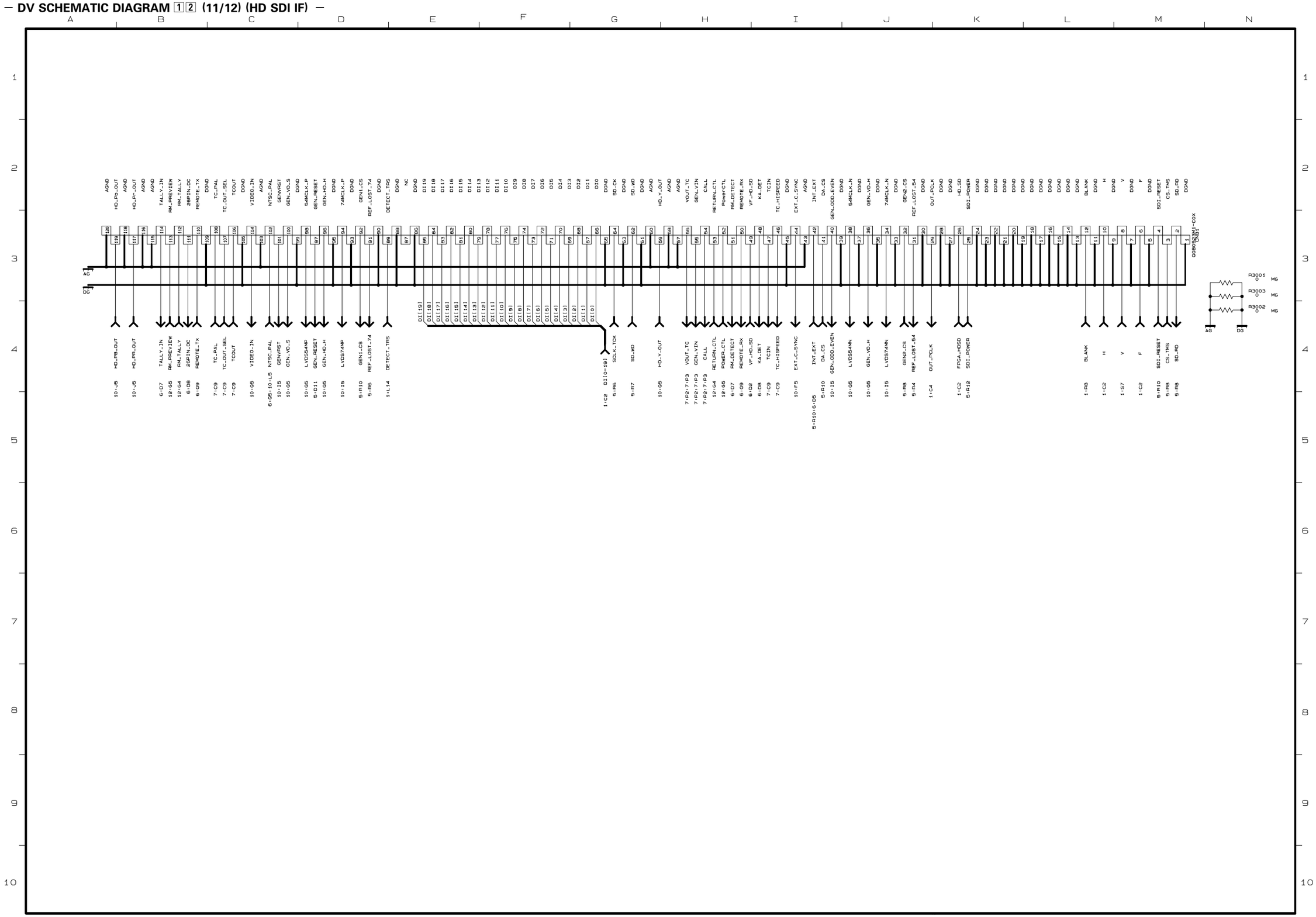
— DV SCHEMATIC DIAGRAM 1 2 (9/12) (CODEC IF) —

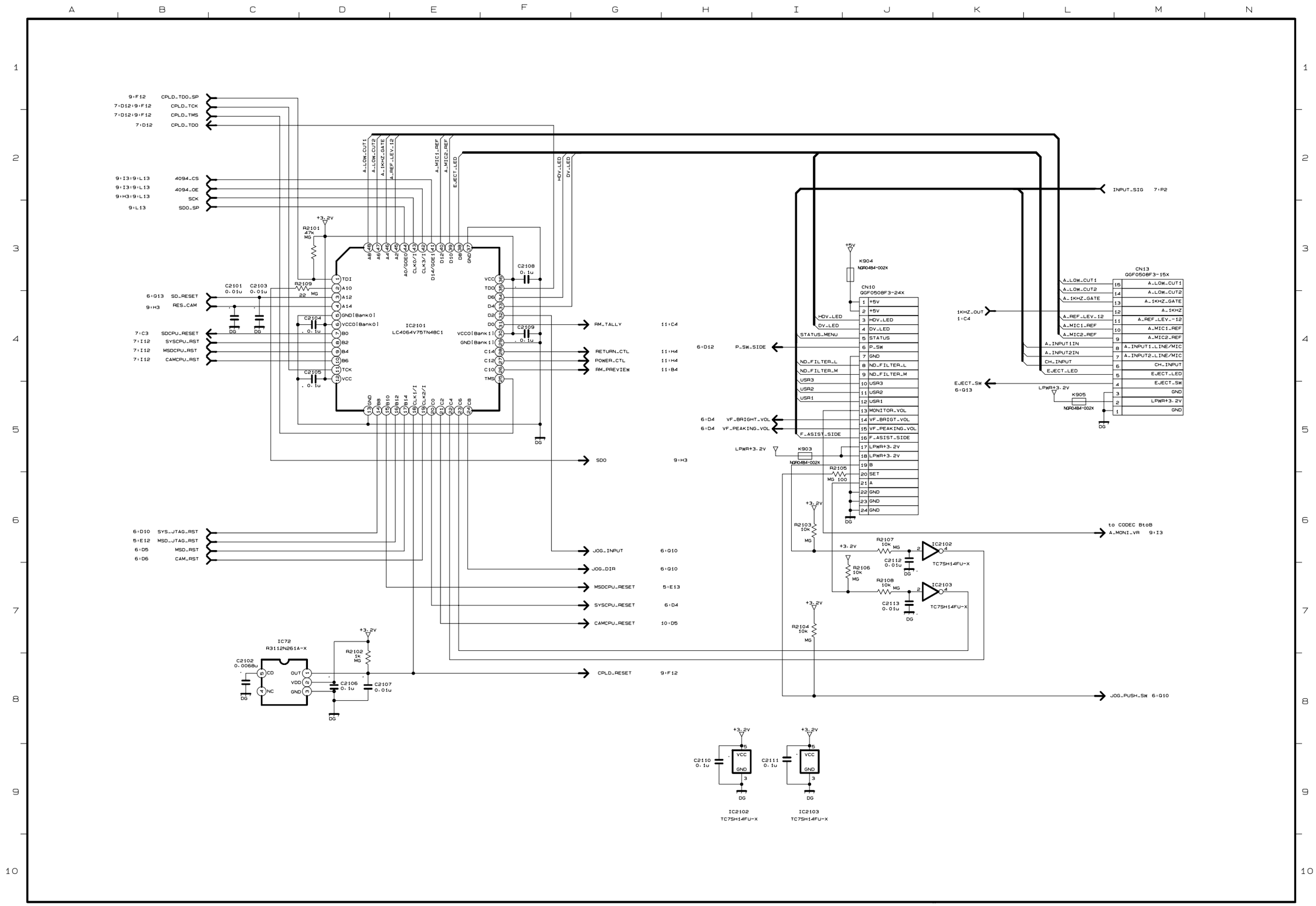


— DV SCHEMATIC DIAGRAM 12 (10/12) (CAM IF) —



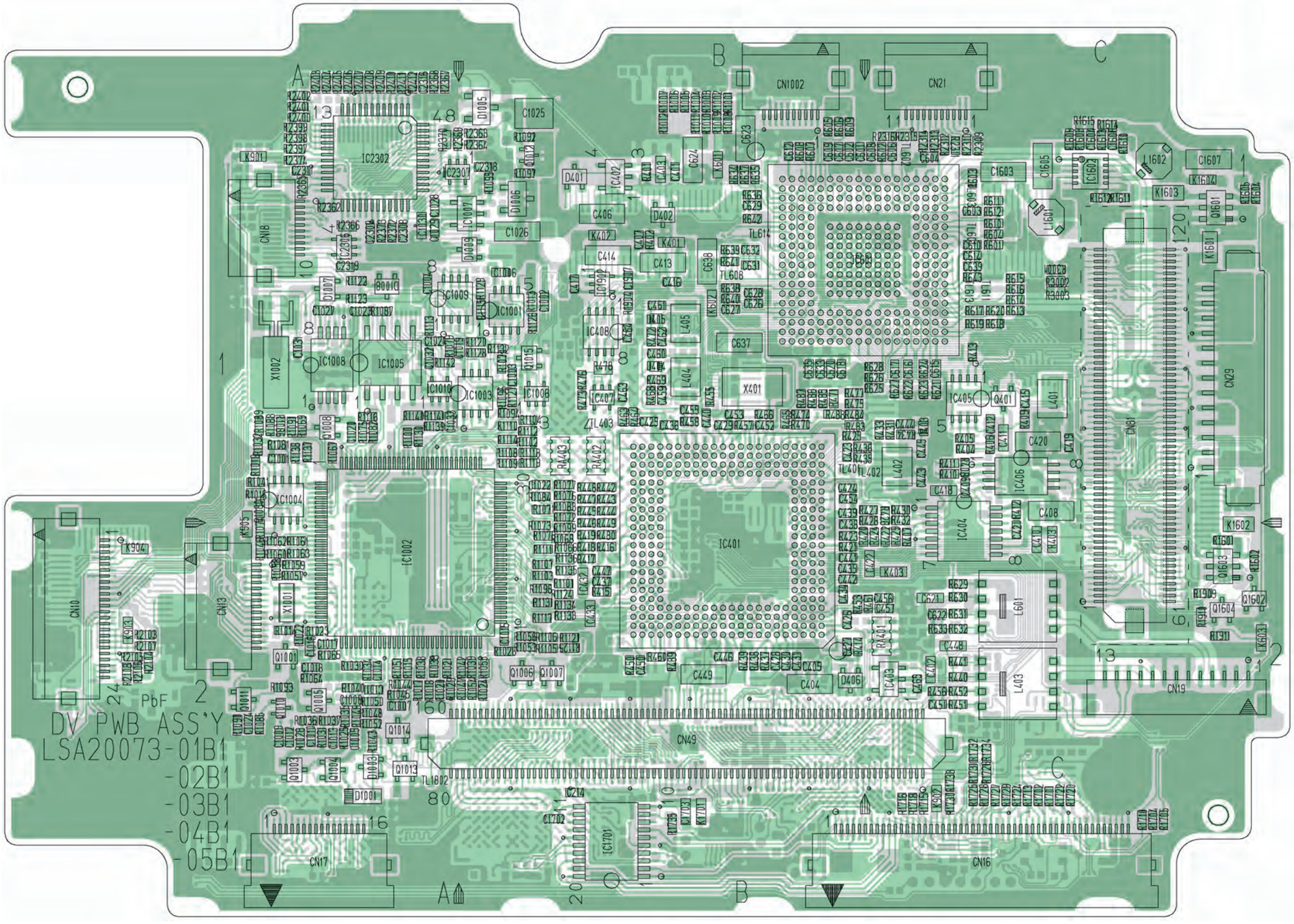
— DV SCHEMATIC DIAGRAM 1 2 (11/12) (HD SDI IF) —




9:F12 CPLD_TDO_SP
7:D12;9:F12 CPLD_TCK
7:D12;9:F12 CPLD_TMS
7:D12 CPLD_TDO
9:I3;9:L13 4094_CS
9:I3;9:L13 4094_OE
9:H3;9:L13 SCK
9:L13 SDO_SP
A_LOW_CUT1
A_LOW_CUT2
A_1KHZ_GATE
A_REF_LEV_12
A_MIC1_REF
A_MIC2_REF
EJECT_LED
HDV_LED
DV_LED
+3.2V
R2101 47K MG
C2101 0.01u
C2103 0.01u
R2109 22 MG
C2104 0.1u
C2105 0.1u
C2108 0.1u
C2109 0.1u
IC2101
LC4064V75TN48C1
6:Q13 SD_RESET
9:H3 RES_CAM
7:C3 SDCPU_RESET
7:I12 SYSCPU_RST
7:I12 MSDCPU_RST
7:I12 CAMCPU_RST
RM_TALLY 11:C4
RETURN_CTL 11:H4
POWER_CTL 11:H4
RM_PREVIEW 11:B4
SDO 9:H3
6:D10 SYS_JTAG_RST
5:E12 MSD_JTAG_RST
6:D5 MSD_RST
6:D6 CAM_RST
JOG_INPUT 6:Q10
JOG_DIR 6:Q10
MSDCPU_RESET 5:E13
SYSCPU_RESET 6:D4
CAMCPU_RESET 10:D5
CPLD_RESET 9:F12
IC72
R3112N261A-X
C2102 0.0068u
R2102 1K MG
C2106 0.1u
C2107 0.01u
+5V
K904 NQR0484-002X
CN10 GGF0508F3-24X
6:D12 P_SW_SIDE
STATUS_MENU
ND_FILTER_L
ND_FILTER_M
USR3
USR2
USR1
6:D4 VF_BRIGHT_VOL
6:D4 VF_PEAKING_VOL
F_ASIST_SIDE
LPWR+3.2V
K903 NQR0484-002X
R2105 MG 100
MONITOR_VOL
VF_BRIGT_VOL
VF_PEAKING_VOL
B
SET
A
GND
INPUT_SIG 7:P2
1KHZ_OUT 1:C4
EJECT_SW 6:Q13
CN13 GGF0508F3-15X
A_INPUT1IN
A_INPUT2IN
CH_INPUT
EJECT_SW
to CODEC BtoB
A_MONI_VR 9:I3
JOG_PUSH_SW 6:Q10
R2103 10K MG
R2107 10K MG
R2106 10K MG
R2108 10K MG
R2104 10K MG
C2112 0.01u
C2113 0.01u
IC2102
TC7SH14FU-X
IC2103
TC7SH14FU-X
C2110 0.1u
C2111 0.1u
IC2102
TC7SH14FU-X
IC2103
TC7SH14FU-X
DG

4.14 DV CIRCUIT BOARD

— SIDE A —

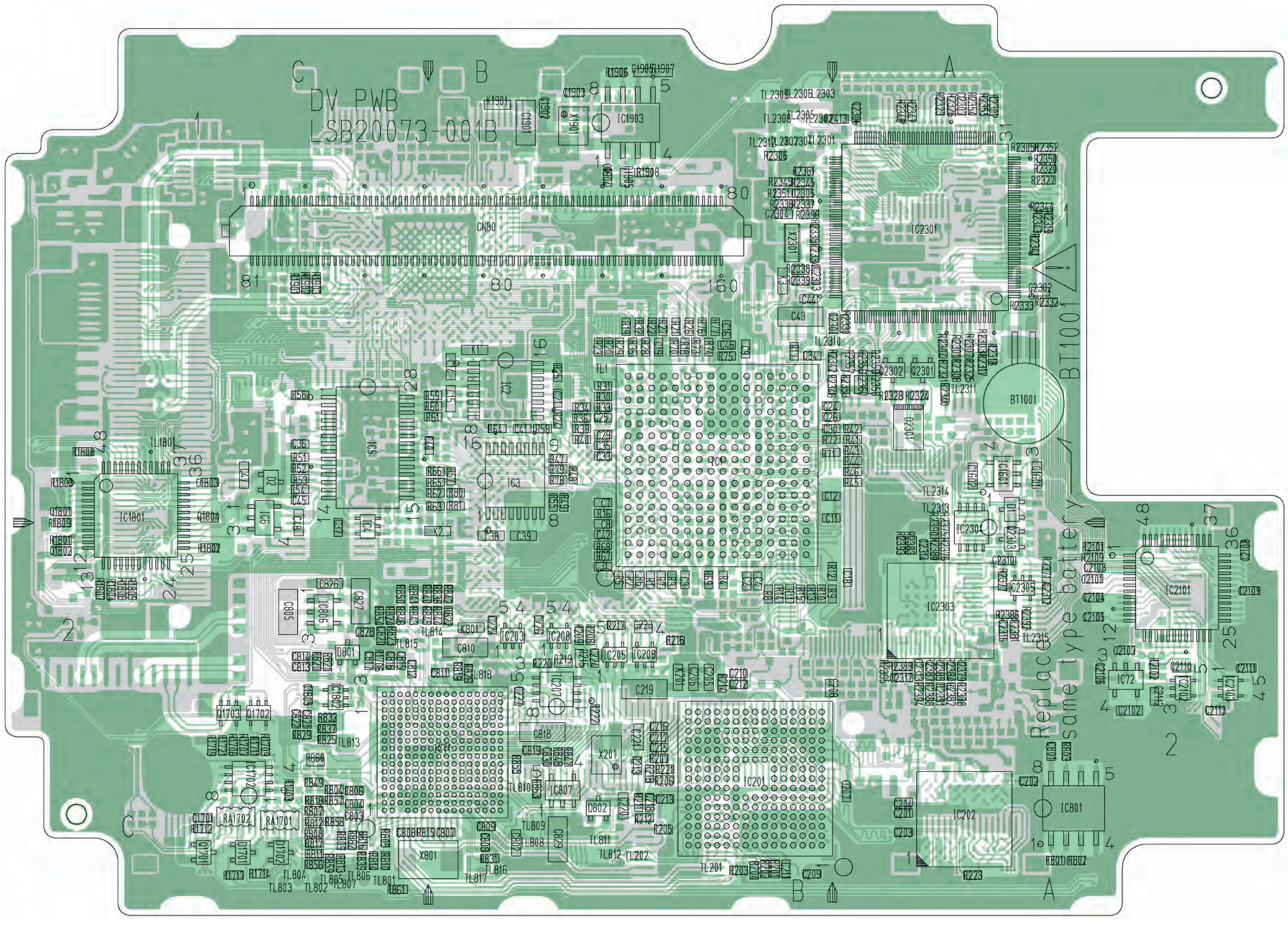


● **ADDRESS TABLE OF BOARD PARTS**
Each address may have an address error by one interval.

A-1C
Side — Y axis
X axis

IC1	B-2B	R8	B-2B	R417	A-2B	R801	B-2A	R1058	A-2A
IC2	B-1B	R9	B-2B	R418	A-2B	R802	B-2A	R1059	A-2A
IC3	B-2B	R10	B-2B	R419	A-2B	R803	B-2A	R1060	A-2A
IC4	B-2C	R11	B-2B	R420	A-2B	R804	B-2C	R1061	A-2A
IC5	B-1C	R12	B-2B	R421	A-2B	R805	B-2C	R1062	A-2A
IC6	B-2C	R13	B-2B	R422	A-2C	R806	B-2C	R1063	A-2A
IC71	B-2B	R14	B-2B	R423	A-2B	R807	B-2C	R1064	A-2A
IC72	B-2A	R15	B-2B	R424	A-2C	R808	B-2C	R1065	A-2A
IC201	B-2B	R16	B-2B	R425	A-1B	R809	B-2C	R1066	A-2B
IC202	B-2A	R17	B-1B	R426	A-2C	R810	B-2C	R1067	A-1A
IC203	B-2B	R18	B-1B	R427	A-2C	R811	B-2C	R1068	A-2B
IC205	B-2B	R19	B-1B	R428	A-2C	R812	B-2C	R1069	A-1A
IC207	B-2B	R20	B-1B	R429	A-2C	R813	B-2C	R1070	A-1B
IC208	B-2B	R21	B-1B	R430	A-2C	R814	B-2C	R1071	A-2B
IC209	B-2B	R22	B-1B	R431	A-1C	R815	B-2C	R1072	A-2B
IC401	A-2B	R23	B-1B	R432	A-2C	R816	B-2C	R1073	A-2B
IC402	A-1B	R24	B-1B	R433	A-1C	R817	B-2C	R1074	A-2A
IC403	A-2C	R25	B-1B	R434	A-1C	R818	B-2C	R1075	A-1A
IC404	A-2C	R26	B-1B	R435	A-2B	R819	B-2B	R1076	A-2B
IC405	A-1C	R27	B-1B	R436	A-1B	R820	B-2C	R1077	A-2B
IC406	A-2C	R28	B-1B	R437	A-2B	R821	B-2C	R1078	A-2B
IC407	A-1B	R29	B-1B	R438	A-2B	R822	B-2B	R1079	A-1B
IC408	A-1B	R30	B-1B	R439	A-2B	R823	B-2C	R1080	A-2A
IC601	A-1B	R31	B-1B	R440	A-2C	R824	B-2C	R1081	A-1A
IC801	B-2A	R32	B-1B	R441	A-2C	R825	B-2C	R1082	A-1A
IC806	B-2C	R33	B-1B	R442	A-2B	R826	B-2B	R1083	A-2B
IC807	B-2B	R34	B-1B	R443	A-2B	R829	B-2C	R1084	A-2B
IC1001	A-1B	R35	B-1B	R444	A-2B	R831	B-2B	R1085	A-2A
IC1002	A-2A	R36	B-1B	R445	A-2B	R832	B-2C	R1086	A-1A
IC1003	A-1B	R39	B-1B	R446	A-2B	R837	B-2C	R1087	A-1A
IC1004	A-2A	R40	B-1B	R447	A-2B	R838	B-2B	R1088	A-1A
IC1005	A-1A	R41	B-1B	R448	A-2B	R839	B-2C	R1089	A-1A
IC1006	A-1B	R42	B-1B	R449	A-2B	R840	B-2C	R1090	A-2A
IC1007	A-1B	R43	B-1B	R450	A-2B	R841	B-2C	R1091	A-1A
IC1008	A-1A	R44	B-2B	R451	A-2C	R842	B-2B	R1092	A-1B
IC1009	A-1B	R45	B-2B	R452	A-2C	R843	B-2C	R1093	A-2A
IC1010	A-1B	R46	B-2B	R453	A-2B	R844	B-2B	R1094	A-1B
IC1601	B-2A	R47	B-2B	R455	A-1B	R845	B-2C	R1095	A-1B
IC1602	A-1C	R48	B-2B	R456	A-2C	R846	B-2C	R1096	A-1B
IC1701	A-2B	R49	B-2B	R457	A-1B	R847	B-2B	R1097	A-1B
IC1702	B-2C	R51	B-2C	R458	A-1B	R848	B-2B	R1098	A-2B
IC1801	B-2C	R52	B-2C	R460	A-2B	R849	B-2C	R1099	A-2B
IC1802	B-2C	R53	B-2C	R461	A-2C	R850	B-2C	R1100	A-1A
IC1902	A-1B	R54	B-2C	R463	A-1B	R854	B-2C	R1101	A-2B
IC1903	B-1B	R55	B-2B	R464	A-1B	R855	B-2B	R1102	A-1B
IC2101	B-2A	R56	B-1C	R465	A-1B	R856	B-2C	R1103	A-2B
IC2102	B-2A	R57	B-2B	R466	A-1B	R857	B-2C	R1104	A-1B
IC2103	B-2A	R58	B-1B	R468	A-1B	R858	B-2C	R1105	A-2B
IC2301	B-1A	R59	B-1B	R469	A-1B	R859	B-2C	R1106	A-2B
IC2302	A-1A	R60	B-1B	R470	A-1B	R860	B-2C	R1107	A-2B
IC2303	B-2A	R61	B-1B	R471	A-1B	R861	B-2C	R1108	A-1B
IC2304	B-2A	R62	B-2B	R472	A-1B	R862	B-2C	R1109	A-2B
IC2305	B-2A	R63	B-2B	R473	A-1B	R863	B-2B	R1110	A-1B
IC2306	A-1A	R64	B-1B	R474	A-1B	R1001	A-1B	R1111	A-2B
IC2307	A-1B	R65	B-2B	R475	A-1B	R1002	A-1B	R1112	A-1B
		R66	B-2B	R476	A-1B	R1003	A-1B	R1113	A-1A
Q401	A-1C	R67	B-2B	R477	A-1B	R1004	A-1B	R1114	A-1B
Q1001	A-2A	R68	B-2B	R478	A-1B	R1005	A-1B	R1115	A-1B
Q1003	A-2A	R69	B-2B	R480	A-2B	R1006	A-1B	R1116	A-1A
Q1004	A-2A	R70	B-1B	R483	A-1B	R1007	A-1B	R1117	A-2B
Q1005	A-2A	R71	B-1B	R484	A-1B	R1008	A-1B	R1118	A-1B
Q1006	A-2B	R72	B-1B	R485	A-1B	R1009	A-1B	R1119	A-2B
Q1007	A-2B	R73	B-1B	R486	A-1B	R1010	A-1B	R1120	A-1B
Q1008	A-1A	R74	B-1B	R487	A-1B	R1011	A-1B	R1121	A-2B
Q1010	A-2A	R75	B-1B	R488	A-1B	R1012	A-1B	R1122	A-1A
Q1011	A-2A	R76	B-1B	R489	A-2B	R1013	A-1B	R1123	A-1A
Q1012	A-1B	R77	B-1B	R601	A-1C	R1014	A-2A	R1124	A-2B
Q1013	A-2A	R78	B-2B	R602	A-1C	R1015	A-2A	R1125	A-2B
Q1014	A-2A	R79	B-2B	R603	A-1C	R1016	A-2A	R1126	A-1B
Q1015	A-1B	R80	B-2B	R604	A-1C	R1017	A-2A	R1127	A-1B
Q1601	A-1C	R81	B-2B	R605	A-1B	R1018	A-2A	R1128	A-1B
Q1602	A-2C	R201	B-2B	R606	A-1B	R1019	A-2A	R1129	A-1B
Q1603	A-2C	R202	B-2B	R607	A-1B	R1020	A-2B	R1130	A-1A
Q1604	A-2C	R203	B-2B	R608	A-1B	R1021	A-2B	R1131	A-2B
Q1701	B-2C	R204	B-2B	R609	A-1B	R1022	A-2A	R1132	A-1B
Q1702	B-2C	R205	B-2B	R610	A-1C	R1023	A-2A	R1133	A-2B
Q1703	B-2C	R206	B-2B	R611	A-1C	R1024	A-2B	R1134	A-2B
Q2301	B-1A	R207	B-2B	R612	A-1C	R1025	A-2A	R1135	A-2B
Q2302	B-1A	R208	B-2B	R613	A-1C	R1026	A-2B	R1136	A-2B
Q2303	B-2A	R209	B-2B	R614	A-1C	R1028	A-2A	R1137	A-1A
		R211	B-2B	R615	A-1C	R1029	A-2B	R1138	A-1A
D1	B-2A	R212	B-2B	R616	A-1C	R1030	A-2A	R1139	A-1A
D2	B-2C	R213	B-2B	R617	A-1C	R1031	A-2A	R1140	A-1A
D401	A-1B	R214	B-2B	R618	A-1C	R1032	A-1A	R1141	A-1A
D402	A-1B	R215	B-2B	R619	A-1C	R1033	A-2A	R1142	A-1B
D403	A-1C	R216	B-2B	R620	A-1C	R1034	A-2A	R1601	A-2C
D404	A-1B	R217	B-2B	R621	A-1C	R1035	A-2A	R1602	A-2C
D405	A-1B	R218	B-2B	R622	A-1C	R1036	A-2A	R1603	A-1C
D406	A-2B	R219	B-2B	R623	A-1C	R1037	A-2A	R1604	A-1C
D801	B-2C	R220	B-2B	R624	A-1C	R1038	A-2A	R1605	A-1C
D802	B-2B	R221	B-2B	R625	A-1C	R1039	A-2B	R1609	A-1C
D1001	A-2A	R222	B-2B	R626	A-1C	R1040	A-2A	R1610	A-1C
D1003	A-2A	R223	B-2A	R627	A-1C	R1041	A-2A	R1611	A-1C
D1005	A-1B	R401	A-1B	R628	A-1C	R1042	A-2B	R1612	A-1C
D1006	A-1B	R402	A-1B	R629	A-2C	R1043	A-2A	R1613	A-1C
D1007	A-1A	R403	A-2C	R630	A-2C	R1044	A-2A	R1614	A-1C
D1008	A-1A	R404	A-1C	R631	A-2C	R1045	A-2A	R1615	A-1C
D1009	A-1B	R405	A-1C	R632	A-2C	R1046	A-2A	R1701	A-2C
D1701	B-2C	R406	A-1C	R633	A-2C	R1047	A-2B	R1702	A-2C
D1702	B-2C	R407	A-2C	R634	A-1B	R1048	A-2A	R1703	B-2C
D2301	B-1A	R408	A-2C	R635	A-1B	R1049	A-2A	R1704	A-2C
		R409	A-1C	R636	A-1B	R1050	A-2A	R1705	A-2C
R1	B-2B	R410	A-2C	R637	A-1B	R1051	A-2A	R1706	B-2C
R2	B-2B	R411	A-2C	R638	A-1B	R1052	A-2A	R1707	B-2C
R3	B-2B	R412	A-2C	R639	A-1B	R1053	A-2B	R1708	B-2C
R4	B-2B	R413	A-1C	R640	A-1B	R1054	A-2B	R1709	B-2C
R5	B-2B	R414	A-2B	R641	A-1B	R1055	A-2B	R1710	A-2C
R6	B-2B	R415	A-2B	R642	A-1B	R1056	A-2B	R1711	B-2C
R7	B-2B	R416	A-2B	R643	A-1C	R1057	A-2A	R1712	B-2C

— SIDE B —



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R1714	B-2C	R2363	A-1B	C213	B-2B	C801	B-2A	C2316	A-1A						
R1715	A-2C	R2364	A-1B	C214	A-2B	C802	B-2B	C2317	B-2A						
R1716	A-2C	R2365	A-1A	C215	B-2B	C803	B-2C	C2318	A-1B						
R1717	B-2C	R2366	A-1A	C216	B-2B	C804	B-2C	C2319	A-1A						
R1718	A-2C	R2367	A-1B	C217	B-2B	C805	B-2C								
R1719	B-2C	R2368	A-1A	C218	B-2B	C806	B-2C	X201	B-2B						
R1720	A-2C	R2369	A-1B	C219	B-2B	C807	B-2B	X401	A-1B						
R1721	B-2C	R2370	A-1B	C220	B-2B	C808	B-2B	X801	B-2B						
R1722	A-2C	R2371	B-2A	C221	B-2B	C809	B-2B	X1001	A-2A						
R1724	A-2C	R2372	A-1A	C222	B-2B	C810	B-2B	X1002	A-1A						
R1725	A-2C	R2373	A-1A	C223	B-2B	C811	B-2B	X1901	B-1B						
R1726	A-2C	R2374	A-1A	C224	B-2B	C812	B-2C	X2301	B-1B						
R1727	A-2C	R2375	B-2A	C226	B-2B	C813	B-2C								
R1728	A-2C	R2376	B-2A	C227	B-2B	C814	B-2C	CN10	A-2A						
R1729	A-2C	R2377	B-2A	C401	A-1B	C815	B-2C	CN13	A-2A						
R1730	A-2C	R2378	B-2A	C402	A-2C	C816	B-2C	CN16	A-2C						
R1731	A-2C	R2379	B-2A	C403	A-1B	C817	B-2C	CN17	A-2A						
R1732	A-2C	R2380	B-2A	C404	A-2B	C818	B-2B	CN18	A-1A						
R1733	A-2C	R2381	B-2A	C405	A-2B	C819	B-2B	CN19	A-2C						
R1734	A-2C	R2382	B-2A	C406	A-1B	C820	B-2C	CN21	A-1C						
R1735	A-2B	R2383	B-2A	C407	A-1B	C821	B-2C	CN29	A-1C						
R1801	B-2C	R2384	B-2A	C408	A-2C	C822	B-2C	CN49	A-2B						
R1802	B-2C	R2385	B-2A	C409	A-2C	C826	B-2C	CN80	B-1B						
R1803	B-2C	R2386	B-2A	C410	A-2C	C827	B-2C	CN81	A-1C						
R1804	B-2C	R2387	B-2A	C411	A-1C	C828	B-2C	CN1002	A-1B						
R1805	B-2C	R2388	B-2A	C412	A-1C	C829	B-2B								
R1806	B-2C	R2389	B-2A	C413	A-1B	C830	B-2B	K1	B-1B						
R1807	B-2C	R2390	B-2A	C414	A-1B	C1001	A-2A	K2	B-2B						
R1808	B-1C	R2391	B-2A	C415	A-1C	C1002	A-1B	K3	B-1B						
R1809	B-2C	R2392	B-2A	C416	A-1B	C1003	A-1B	K201	B-2B						
R1901	B-1C	R2393	B-2A	C417	A-1B	C1004	A-1A	K401	A-1B						
R1902	B-1C	R2394	B-2A	C418	A-2C	C1005	A-2A	K402	A-1B						
R1903	B-1C	R2395	B-2A	C419	A-1C	C1006	A-1B	K403	A-2C						
R1904	A-1B	R2396	B-1B	C420	A-1C	C1007	A-2A	K601	A-1B						
R1905	B-1B	R2397	A-1A	C421	A-2C	C1008	A-2A	K602	A-1B						
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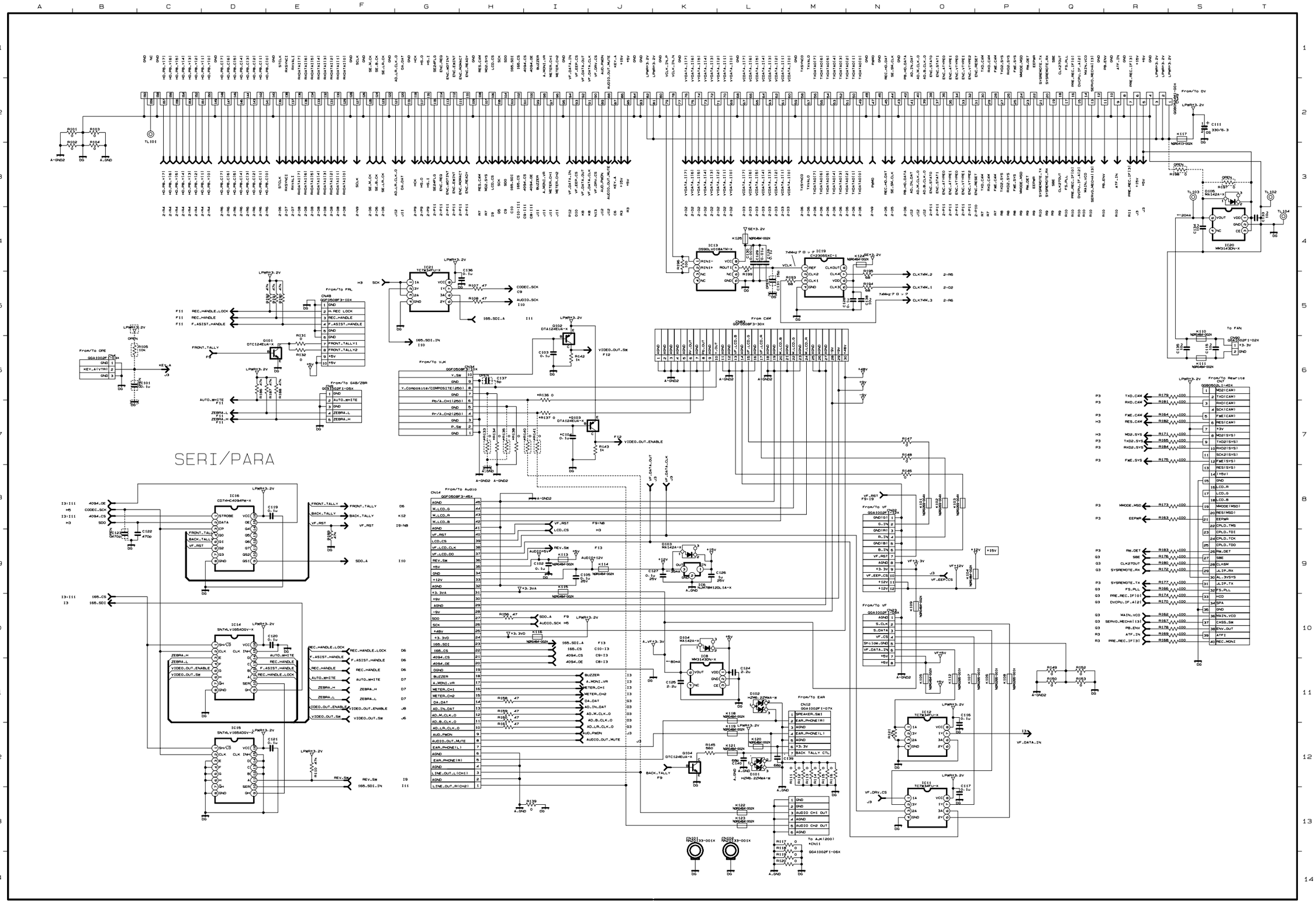
R1907	B-1B	R2399	A-1A	C423	A-1B	C1010	A-2A	K801	B-2B						
R1908	B-1B	R2400	A-1A	C424	A-2B	C1011	A-2A	K901	A-1A						
R1909	A-2C	R2401	A-1A	C425	A-1B	C1012	A-2A	K902	A-2C						
R1910	A-2C	R2402	A-1A	C426	A-2B	C1013	A-2A	K903	A-2A						
R1911	A-2C	R2403	A-1A	C427	A-2B	C1014	A-2A	K904	A-2A						
R2101	B-2A	R2404	A-1A	C428	A-2B	C1015	A-2B	K905	A-2A						
R2102	B-2A	R2405	A-1A	C429	A-1B	C1016	A-2A	K1601	A-1C						
R2103	A-2A	R2406	A-1A	C430	A-2B	C1017	A-2A	K1602	A-2C						
R2104	A-2A	R2407	A-1A	C431	A-2B	C1018	A-2A	K1603	A-1C						
R2105	A-2A	R2408	A-1A	C432	A-2B	C1019	A-1B	K1604	A-1C						
R2106	A-2A	R2409	A-1A	C433	A-2B	C1020	A-1A	K1701	A-2B						
R2107	A-2A	R2410	A-1A	C434	A-2B	C1021	A-1A	K1901	B-1B						
R2108	A-2A	R2411	A-1A	C435	A-2B	C1022	A-2B								
R2109	B-2A	R2412	A-1A	C436	A-1B	C1023	A-1A	TL1	B-1B						
R2301	B-1A	R2413	B-1B	C437	A-2B	C1024	A-2A	TL201	B-2B						
R2302	B-1A	R3001	A-1C	C438	A-2B	C1025	A-1B	TL202	B-2B						
R2303	B-1A	R3002	A-1C	C439	A-2B	C1026	A-1B	TL401	A-2B						
R2304	B-1A	R3003	A-1C	C440	A-1B	C1027	A-1A	TL402	A-2B						
R2305	B-1A			C441	A-2B	C1028	A-1A	TL403	A-1B						
R2306	B-1B	RA401	A-2C	C442	A-2B	C1029	A-1A	TL601	A-1C						
R2307	B-1A	RA402	A-1B	C443	A-2C	C1030	A-1A	TL602	A-1C						
R2308	B-1A	RA403	A-1B	C444	A-1C	C1031	A-1A	TL603	A-1C						
R2309	A-1C	RA1701	B-2C	C445	A-1C	C1032	A-1A	TL608	A-1B						
R2310	A-1C	RA1702	B-2C	C446	A-2B	C1033	A-1B	TL611	A-1C						
R2311	A-1C			C447	A-2B	C1601	B-2A	TL613	A-1C						
R2312	A-1C	C2	B-2B	C448	A-2C	C1602	B-2A	TL614	A-1B						
R2313	A-1C	C3	B-2B	C449	A-2B	C1603	A-1C	TL801	B-2C						
R2314	A-1C	C4	B-2B	C450	A-2B	C1604	A-1C	TL802	B-2C						
R2315	A-1C	C7	B-2B	C451	A-2C	C1605	A-1C	TL803	B-2C						
R2316	A-1C	C8	B-2B	C452	A-1B	C1606	A-1C	TL804	B-2C						
R2317	B-1A	C9	B-1B	C453	A-1B	C1607	A-1C	TL805	B-2C						
R2318	B-1A	C11	B-2B	C454	A-2B	C1701	B-2C	TL806	B-2C						
R2319	B-1A	C12	B-2B	C455	A-1B	C1702	A-2B	TL807	B-2C						
R2320	B-1A	C14	B-1B	C456	A-2C	C1703	A-2B	TL808	B-2B						
R2321	B-1A	C15	B-1B	C457	A-2C	C1801	B-2C	TL809	B-2B						
R2323	B-1A	C16	B-1B	C459	A-1B	C1802	B-2C	TL810	B-2B						
R2324	B-1A	C18	B-2B	C460	A-1B	C1803	B-2C	TL811	B-2B						
R2325	B-1A	C19	B-1B	C461	A-1B	C1804	B-2C	TL812	B-2B						
R2326	B-1A	C21	B-1B	C462	A-1B	C1805	B-2C	TL813	B-2C						
R2327	B-1A	C24	B-1B	C463	A-1B	C1901	B-1B	TL814	B-2B						
R2328	B-1A	C25	B-1B	C464	A-1B	C1902	B-1B	TL815	B-2C						
R2330	B-1B	C26	B-1B	C465	A-2C	C1903	B-1B	TL816	B-2B						
R2332	B-1A	C29	B-1B	C601	A-1B	C1904	B-1B	TL817	B-2B						
R2333	B-1A	C30	B-1B	C602	A-1B	C1905	B-1B	TL818	B-2B						
R2334	B-1B	C31	B-2B	C603	A-1C	C1907	A-1B	TL1801	B-1C						
R2335	B-1B	C33	B-1B	C604	A-1C	C2101	B-2A	TL1802	A-2A						
R2336	B-1B	C34	B-1B	C606	A-1C	C2102	B-2A	TL2301	B-1B						
R2337	B-1B	C35	B-1B	C607	A-1B	C2103	B-2A	TL2302	B-1B						
R2338	B-1B	C36	B-1C	C608	A-1C	C2104	B-2A	TL2303	B-1B						
R2339	B-1B	C37	B-2C	C609	A-1B	C2105	B-2A	TL2304	B-1B						
R2340	B-1A	C38	B-2B	C610	A-1C	C2106	B-2A	TL2305	B-1B						
R2341	B-1A	C39	B-2B	C612	A-1B	C2107	B-2A	TL2306	B-1B						
R2342	B-1B	C40	B-1B	C614	A-1C	C2108	B-2A	TL2307	B-1B						
R2343	B-1A	C41	B-1B	C615	A-1C	C2109	B-2A	TL2308	B-1B						
R2344	B-1A	C42	B-2B	C616	A-1C	C2110	B-2A	TL2309	B-1B						
R2345	B-1B	C43	B-1B	C617	A-1C	C2111	B-2A	TL2310	B-1B						
R2346	B-1B	C44	B-1B	C618	A-1B	C2112	B-2A	TL2311	B-1A						
R2347	B-1A	C45	B-2C	C620	A-1B	C2113	B-2A	TL2312	B-1B						
R2348	B-1A	C46	B-1B	C621	A-2C	C2301	B-1B	TL2313	B-2A						
R2349	B-1B	C47	B-2C	C622	A-2C	C2302	B-1A	TL2314	B-2A						
R2350	B-1A	C48	B-2C	C623	A-1B	C2303	B-1B	TL2315	B-2A						
R2351	B-1B	C201	B-2A	C624	A-1B	C2304	B-1B								
R2352	B-1A	C202	B-2A	C626	A-1B	C2305	B-1B	BT1001	B-1A						
R2353	B-1B	C203	B-2A	C627	A-1B	C2306	B-1A								
R2354	B-1A	C204	B-2A	C628	A-1B	C2307	B-1A	L401	A-1C						
R2355	B-1A	C205	B-2B	C629	A-1B	C2308	A-1A	L402	A-2C						
R2356	B-1A	C206	B-2B	C631	A-1B	C2309	A-1A	L403	A-2C						
R2357	B-1B	C207	B-2B	C632	A-1B	C2310	B-2A	L404	A-1B						
R2358	B-1A	C208	B-2B	C633	A-1B	C2311	A-1A	L405	A-1B						
R2359	B-1A	C209	B-2B	C635	A-1B	C2312	B-2A	L601	A-2C						
R2360	B-1A	C210	B-2B	C637	A-1B	C2313	B-2A	L1601	A-1C						
R2361	B-1B	C211	B-2B	C638	A-1B	C2314	B-2A	L1602	A-1C						

4.15 CODEC SCHEMATIC DIAGRAM 20 (1/4)



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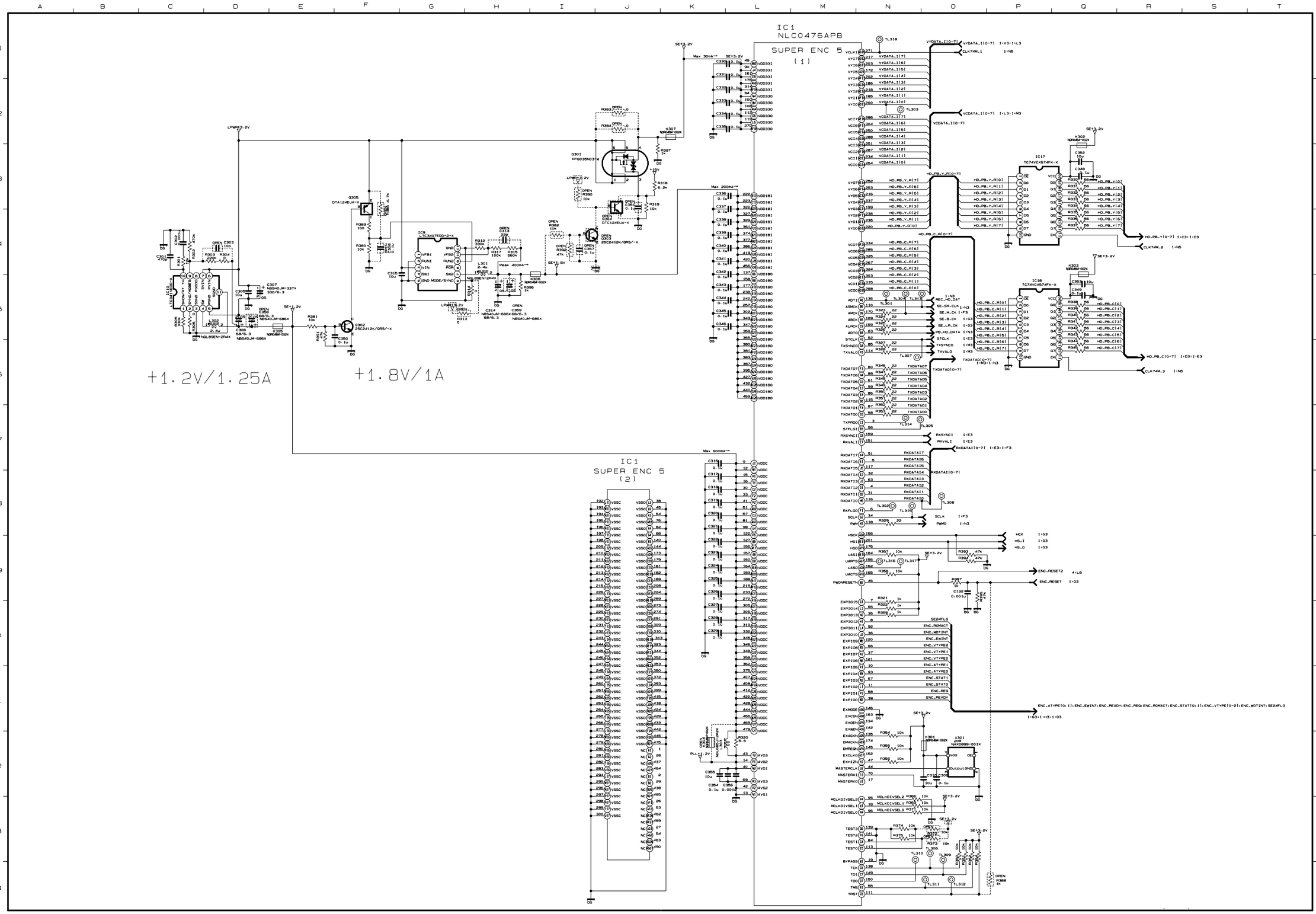

4-39

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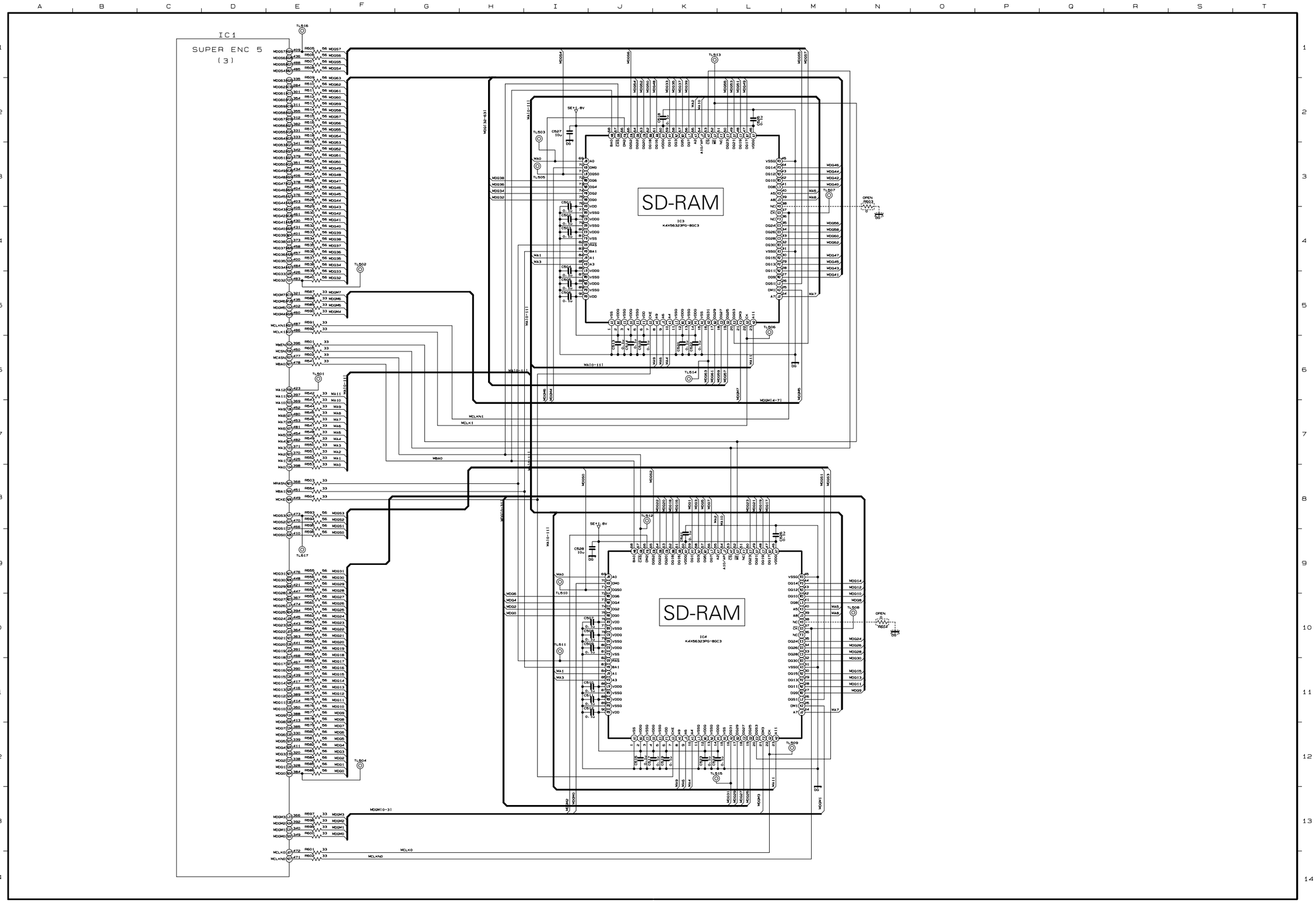

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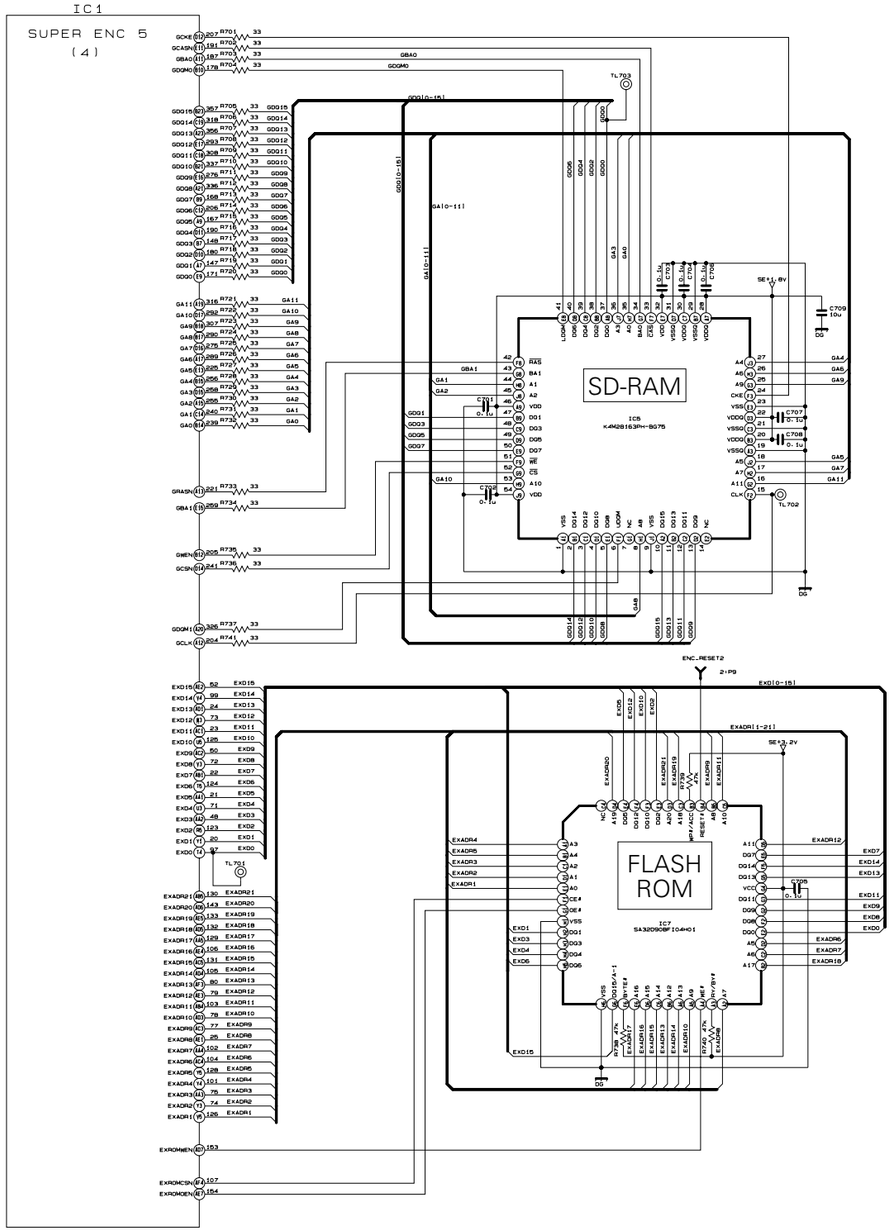
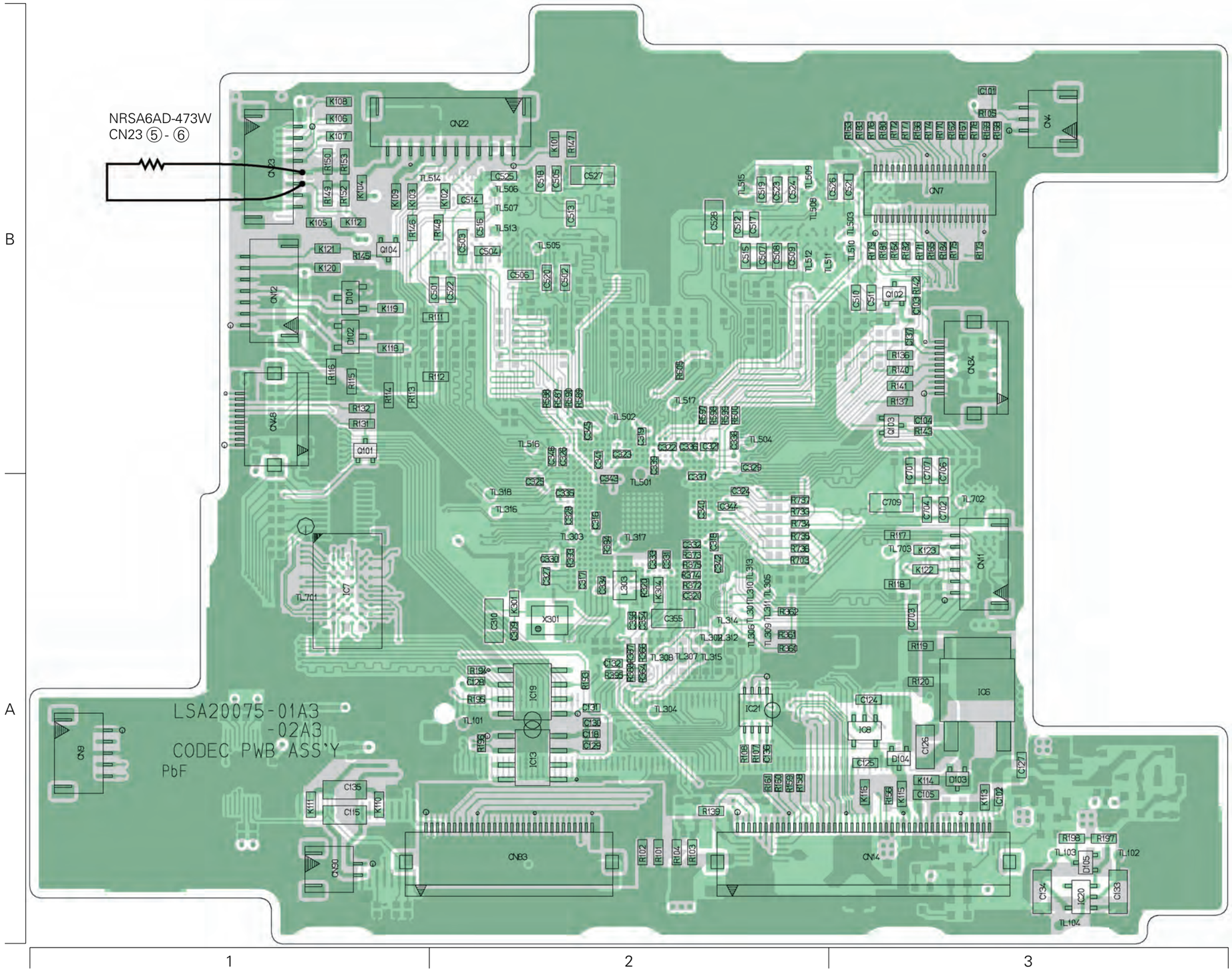


4.16 CODEC CIRCUIT BOARD 2 0

— SIDE A —



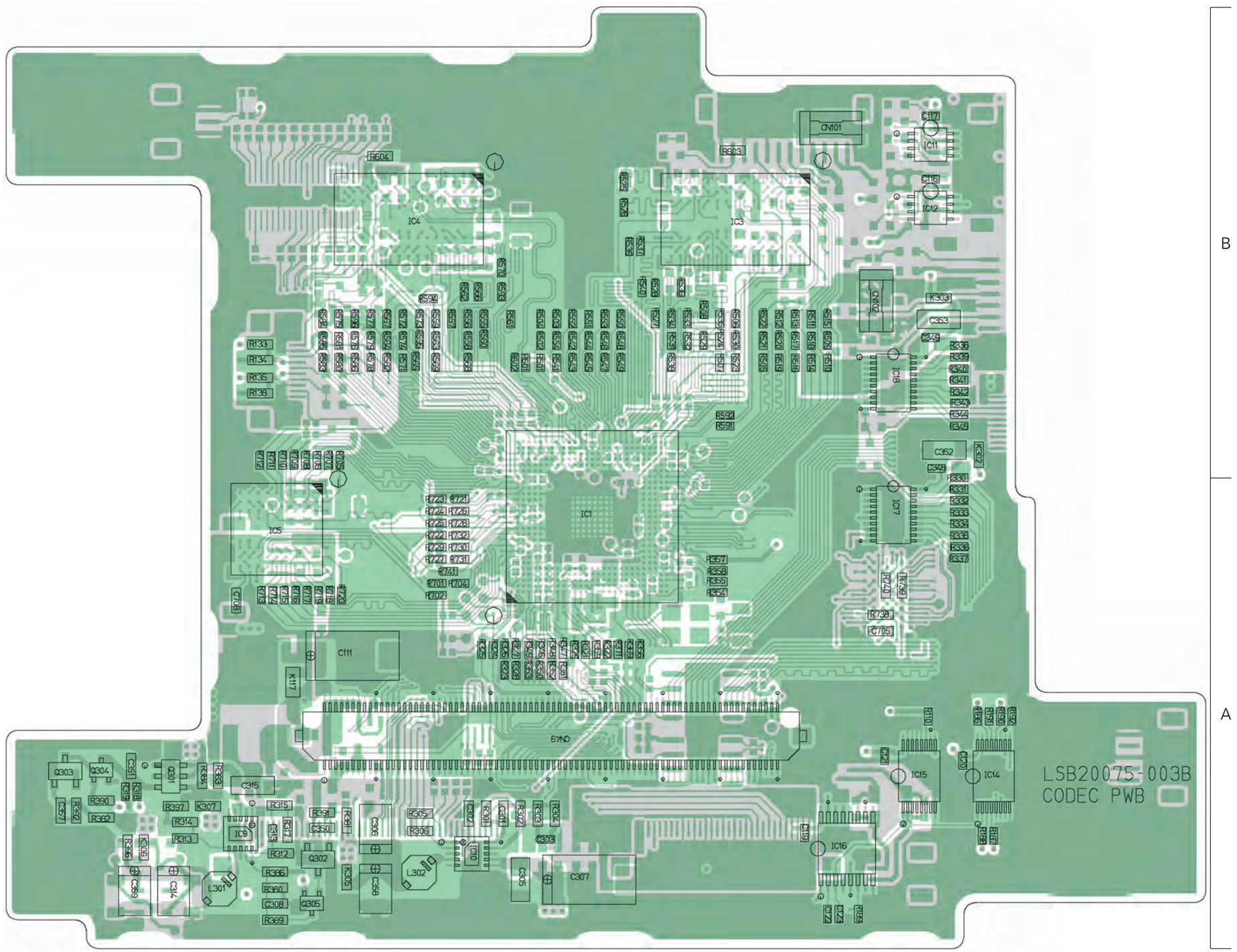
● **ADDRESS TABLE OF BOARD PARTS**
Each address may have an address error by one interval.

Side — A-1C — Y axis / X axis

IC1	B-2A	R152	A-1B	R338	B-1B	R525	B-2B
IC3	B-2B	R153	A-1B	R339	B-1B	R526	B-2B
IC4	B-2B	R156	A-3A	R340	B-1B	R527	B-2B
IC5	B-3A	R158	A-2A	R341	B-1B	R528	B-2B
IC6	A-3A	R159	A-2A	R342	B-1B	R529	B-2B
IC7	A-1A	R160	A-2A	R343	B-1B	R530	B-2B
IC8	A-3A	R161	A-2A	R344	B-1B	R531	B-2B
IC9	B-3A	R162	A-3B	R345	B-1B	R532	B-2B
IC10	B-2A	R163	A-3B	R346	B-2A	R533	B-2B
IC11	B-1B	R164	A-3B	R347	B-2A	R534	B-2B
IC12	B-1B	R165	A-3B	R348	B-2A	R535	B-2B
IC13	A-2A	R166	A-3B	R349	B-2A	R536	B-2B
IC14	B-1A	R167	A-3B	R350	B-2A	R537	B-2B
IC15	B-1A	R168	A-3B	R351	B-2A	R538	B-2B
IC16	B-1A	R169	A-3B	R352	B-2A	R539	B-2B
IC17	B-1A	R170	A-3B	R353	B-2A	R540	B-2B
IC18	B-1B	R171	A-3B	R354	B-2A	R541	B-2B
IC19	A-2A	R172	A-3B	R355	B-2A	R542	B-2B
IC20	A-3A	R173	A-3B	R356	B-2A	R543	B-2B
IC21	A-2A	R174	A-3B	R357	B-2A	R544	B-2B
		R175	A-3B	R358	B-2A	R545	B-2B
Q101	A-1B	R176	A-3B	R359	B-2A	R546	B-2B
Q102	A-3B	R177	A-3B	R360	A-2A	R547	B-2B
Q103	A-3B	R178	A-3B	R361	A-2A	R548	B-2B
Q104	A-1B	R179	A-3B	R362	A-2A	R549	B-2B
Q301	B-3A	R180	A-3B	R364	A-2A	R550	B-2B
Q302	B-3A	R181	A-3B	R366	A-2A	R551	B-2B
Q303	B-3A	R182	A-3B	R369	B-2A	R552	B-2B
Q304	B-3A	R183	A-3B	R371	B-2A	R553	B-2B
Q305	B-3A	R184	A-3B	R372	A-2A	R554	B-2B
		R186	B-1A	R373	A-2A	R555	B-2B
D101	A-1B	R187	B-1A	R374	A-2A	R556	B-2B
D102	A-1B	R188	B-1A	R375	A-2A	R557	B-2B
D103	A-3A	R189	B-1A	R380	B-3A	R558	B-2B
D104	A-3A	R190	B-1A	R381	B-3A	R559	B-2B
D105	A-3A	R191	B-1A	R382	B-3A	R560	B-2B
		R192	B-1A	R383	B-3A	R561	B-2B
R101	A-2A	R193	A-2A	R384	B-3A	R562	B-2B
R102	A-2A	R194	A-2A	R386	B-3A	R563	B-2B
R103	A-2A	R195	A-2A	R387	A-2A	R564	B-3B
R104	A-2A	R196	A-2A	R388	A-2A	R565	B-2B
R105	A-3B	R197	A-3A	R389	B-3A	R566	B-2B
R107	A-2A	R198	A-3A	R390	B-3A	R567	B-3B
R108	A-2A	R301	B-2A	R391	B-3A	R568	B-2B
R110	B-1A	R302	B-2A	R392	B-3A	R569	B-2B
R111	A-2B	R303	B-2A	R393	A-2A	R570	B-2B
R112	A-2B	R304	B-2A	R394	A-2A	R571	B-2B
R113	A-1B	R305	B-2A	R395	A-2A	R572	B-2B
R114	A-1B	R306	B-2A	R396	B-3A	R573	B-2B
R115	A-1B	R312	B-3A	R397	B-3A	R574	B-2B
R116	A-1B	R313	B-3A	R501	B-2B	R575	B-3B
R117	A-3A	R314	B-3A	R502	B-2B	R576	B-3B
R118	A-3A	R315	B-3A	R503	B-2B	R577	B-3B
R119	A-3A	R317	B-3A	R504	B-2B	R578	B-3B
R120	A-3A	R318	B-3A	R505	B-2B	R579	B-3B
R131	A-1B	R319	B-3A	R506	B-2B	R580	B-3B
R132	A-1B	R320	A-2A	R507	B-2B	R581	B-3B
R133	B-3B	R321	B-2A	R508	B-2B	R582	B-3B
R134	B-3B	R322	B-2A	R509	B-1B	R583	B-3B
R135	B-3B	R323	B-2A	R510	B-1B	R584	B-3B
R136	A-3B	R324	B-2A	R511	B-1B	R585	B-3B
R137	A-3B	R325	B-2A	R512	B-2B	R586	B-3B
R138	B-3B	R326	B-2A	R513	B-2B	R587	A-2B
R139	A-2A	R327	B-2A	R514	B-1B	R588	A-2B
R140	A-3B	R328	B-2A	R515	B-1B	R589	A-2B
R141	A-3B	R329	B-2A	R516	B-2B	R590	A-2B
R142	A-3B	R330	B-1A	R517	B-2B	R591	B-2B
R143	A-3B	R331	B-1A	R518	B-1B	R592	B-2B
R145	A-1B	R332	B-1A	R519	B-2B	R593	B-2B
R146	A-1B	R333	B-1A	R520	B-2B	R594	B-2B
R147	A-2B	R334	B-1A	R521	B-2B	R595	B-2B
R148	A-2B	R335	B-1A	R522	B-2B	R596	B-3B
R149	A-1B	R336	B-1A	R523	B-2B	R597	A-2B
R150	A-1B	R337	B-1A	R524	B-2B	R598	A-2B

R599	A-2B	C134	A-3A	C516	A-2B	TL103	A-3A
R600	A-2B	C135	A-1A	C517	A-2B	TL104	A-3A
R601	B-2B	C136	A-2A	C518	A-2B	TL301	A-2A
R602	B-2B	C137	A-3B	C519	A-2B	TL302	A-2A
R603	B-2B	C301	B-2A	C520	A-2B	TL303	A-2A
R604	B-3B	C302	B-2A	C521	A-3B	TL304	A-2A
R605	A-2B	C303	B-2A	C522	A-2B	TL305	A-2A
R701	B-2A	C305	B-2A	C523	A-2B	TL306	A-2A
R702	B-2A	C306	B-3A	C524	A-2B	TL307	A-2A
R703	A-2A	C307	B-2A	C525	A-2B	TL308	A-2A
R704	B-2A	C308	B-3A	C526	A-2B	TL309	A-2A
R705	B-3B	C309	A-2A	C527	A-2B	TL310	A-2A
R706	B-3B	C310	A-2A	C528	A-2B	TL311	A-2A
R707	B-3B	C313	B-3A	C701	A-3A	TL312	A-2A
R708	B-3B	C314	B-3A	C702	A-3A	TL313	A-2A
R709	B-3B	C315	B-3A	C703	A-3A	TL314	A-2A
R710	B-3B	C316	A-2A	C704	A-3A	TL315	A-2A
R711	B-3B	C317	A-2A	C705	B-1A	TL316	A-2A
R712	B-3B	C318	A-2A	C706	A-3A	TL317	A-2A
R713	B-3A	C319	A-2B	C707	A-3A	TL318	A-2A
R714	B-3A	C320	A-2A	C708	B-3A	TL501	A-2A
R715	B-3A	C321	A-2B	C709	A-3A	TL502	A-2B
R716	B-3A	C322	A-2B			TL503	A-3B
R717	B-3A	C323	A-2B	X301	A-2A	TL504	A-2B
R718	B-3A	C324	A-2A			TL505	A-2B
R719	B-3A	C325	A-2A	CN4	A-3B	TL506	A-2B
R720	B-3A	C326	A-2B	CN7	A-3B	TL507	A-2B
R721	B-2A	C327	A-2A	CN9	A-1A	TL508	A-2B
R722	B-2A	C328	A-2A	CN11	A-3A	TL509	A-2B
R723	B-2A	C329	A-2B	CN12	A-1B	TL510	A-3B
R724	B-2A	C330	A-2A	CN14	A-3A	TL511	A-2B
R725	B-2A	C331	A-2A	CN22	A-2B	TL512	A-2B
R726	B-2A	C332	A-2A	CN23	A-1B	TL513	A-2B
R727	B-2A	C333	A-2A	CN34	A-3B	TL514	A-1B
R728	B-2A	C334	A-2A	CN48	A-1B	TL515	A-2B
R729	B-2A	C335	A-2A	CN49	B-2A	TL516	A-2B
R730	B-2A	C336	A-2B	CN83	A-2A	TL517	A-2B
R731	B-2A	C337	A-2A	CN90	A-1A	TL701	A-1A
R732	B-2A	C338	A-2B	CN101	B-1B	TL702	A-3A
R733	A-2A	C339	A-2B	CN102	B-1B	TL703	A-3A
R734	A-2A	C340	A-2A				
R735	A-2A	C341	A-2B	K101	A-2B	L301	B-3A
R736	A-2A	C342	A-2A	K102	A-2B	L302	B-2A
R737	A-2A	C343	A-2A	K103	A-1B	L303	A-2A
R738	B-1A	C344	A-2A	K104	A-1B		
R739	B-1A	C345	A-2B	K105	A-1B		
R740	B-1A	C346	A-2B	K106	A-1B		
R741	B-2A	C348	B-1B	K107	A-1B		
		C349	B-1B	K108	A-1B		
C101	A-3B	C350	B-3A	K109	A-1B		
C102	A-3A	C351	B-3A	K110	A-1A		
C103	A-3B	C352	B-1B	K111	A-1A		
C104	A-3B	C353	B-1B	K112	A-1B		
C105	A-3A	C354	A-2A	K113	A-3A		
C111	B-3A	C355	A-2A	K114	A-3A		
C115	A-1A	C356	A-2A	K115	A-3A		
C116	B-1B	C357	B-3A	K116	A-3A		
C117	B-1B	C358	B-3A	K117	B-3A		
C118	A-2A	C359	B-3A	K118	A-1B		
C119	B-1A	C501	A-1B	K119	A-1B		
C120	B-1A	C502	A-2B	K120	A-1B		
C121	B-1A	C503	A-2B	K121	A-1B		
C122	B-1A	C504	A-2B	K122	A-3A		
C123	B-1A	C505	A-2B	K123	A-3A		
C124	A-3A	C506	A-2B	K301	A-2A		
C125	A-3A	C507	A-2B	K302	B-1B		
C126	A-3A	C508	A-2B	K303	B-1B		
C127	A-3A	C509	A-2B	K304	A-2A		
C128	A-2A	C510	A-3B	K305	B-3A		
C129	A-2A	C511	A-3B	K306	B-3A		
C130	A-2A	C512	A-2B	K307	B-3A		
C131	A-2A	C513	A-2B				
C132	A-2A	C514	A-2B	TL101	A-2A		
C133	A-3A	C515	A-2B	TL102	A-3A		

– SIDE B –



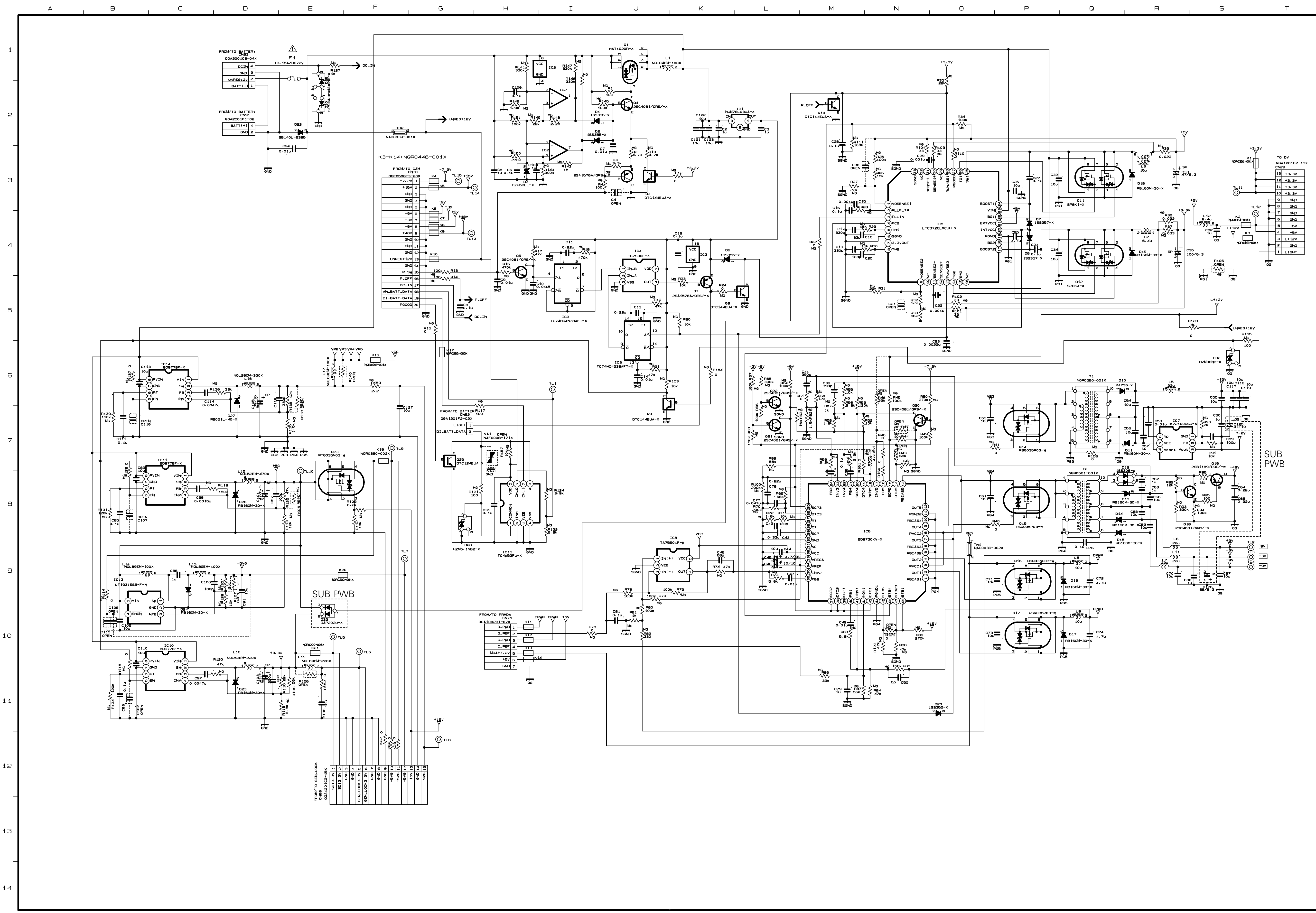
3 2 1

B

A

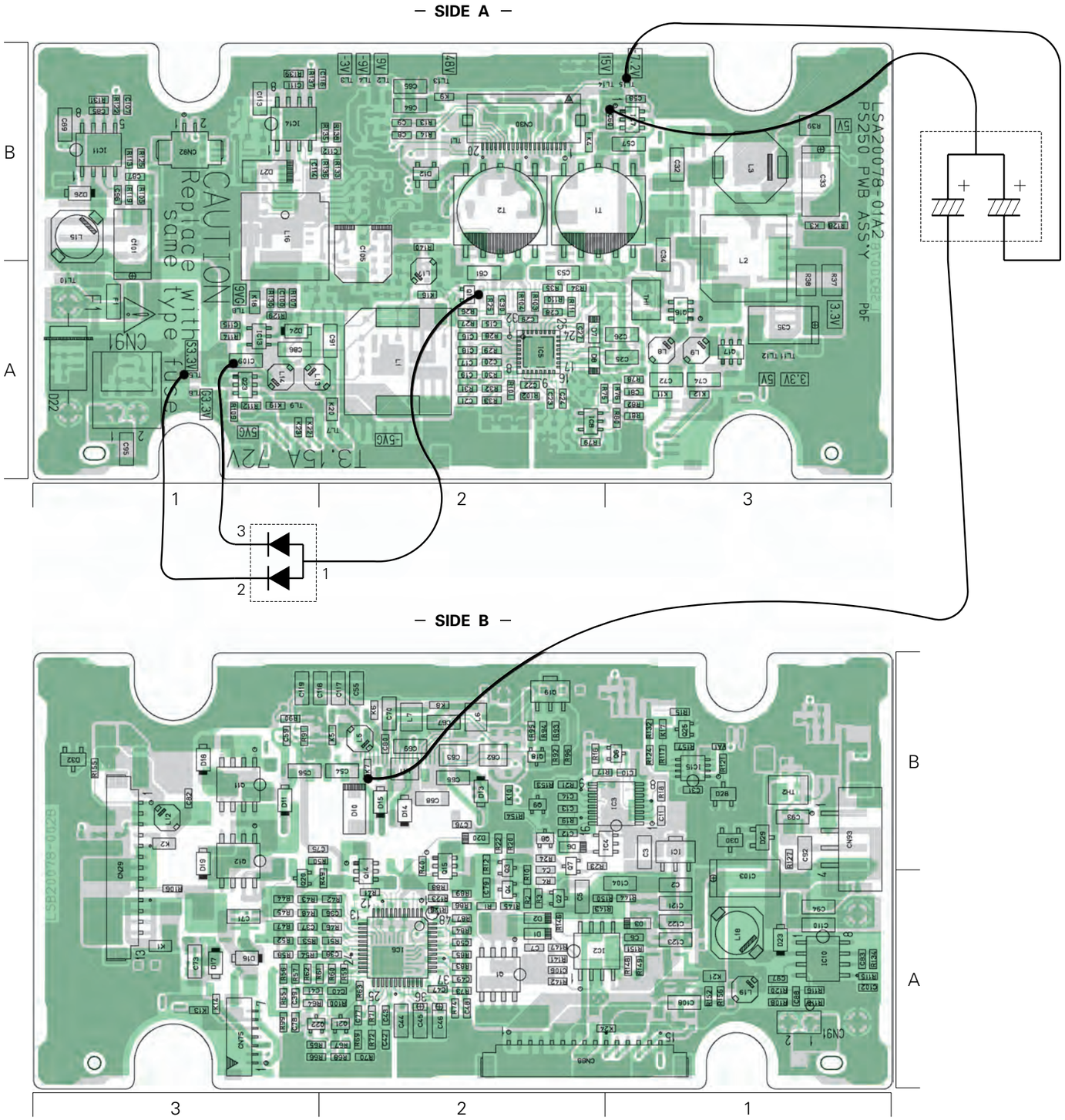
4-43

4.17 PS250 SCHEMATIC DIAGRAM 2 1



4-44

4.18 PS250 CIRCUIT BOARD



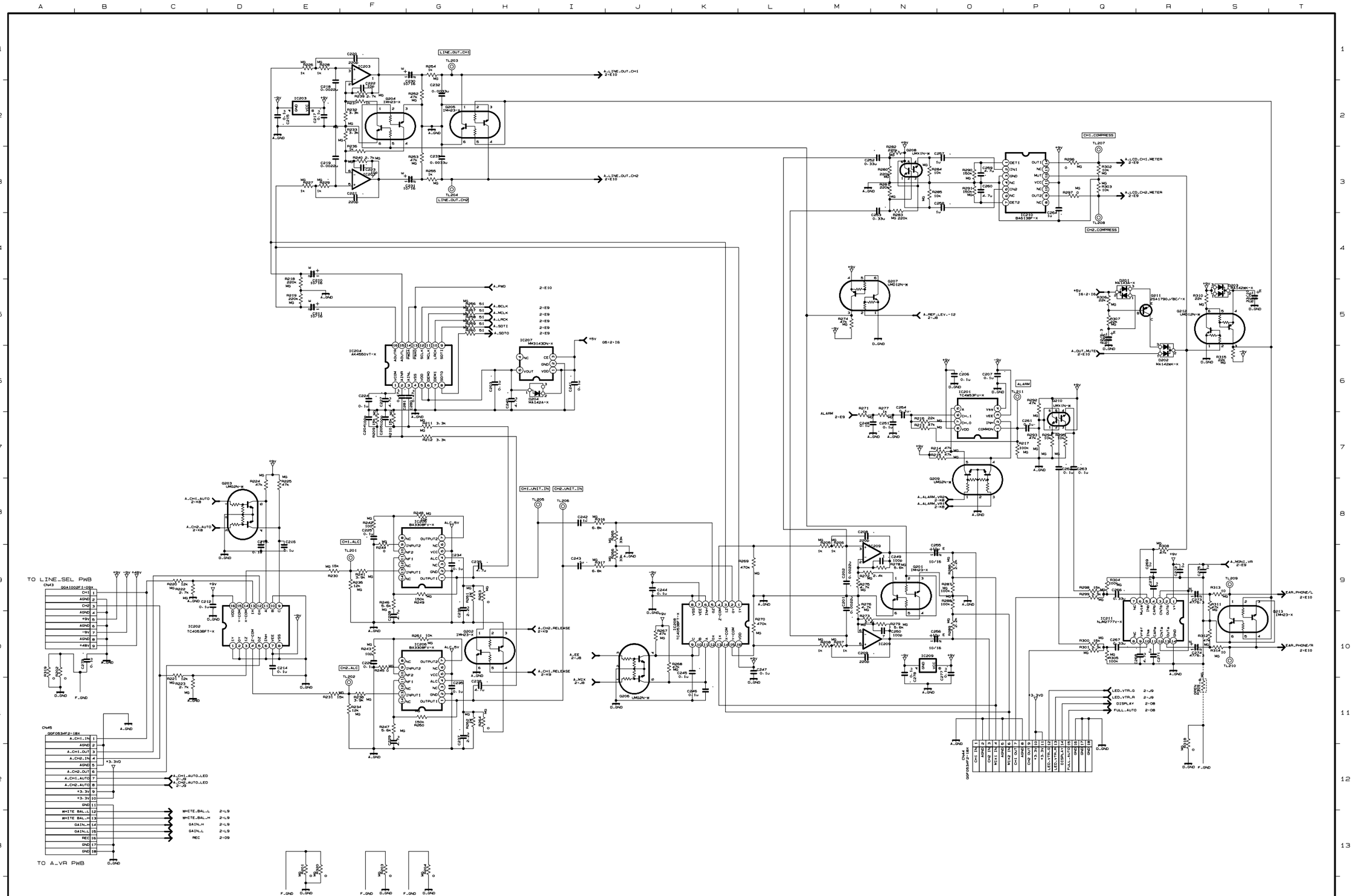
● **ADDRESS TABLE OF BOARD PARTS**
Each address may have an address error by one interval.

Side — A-1C — Y axis / X axis

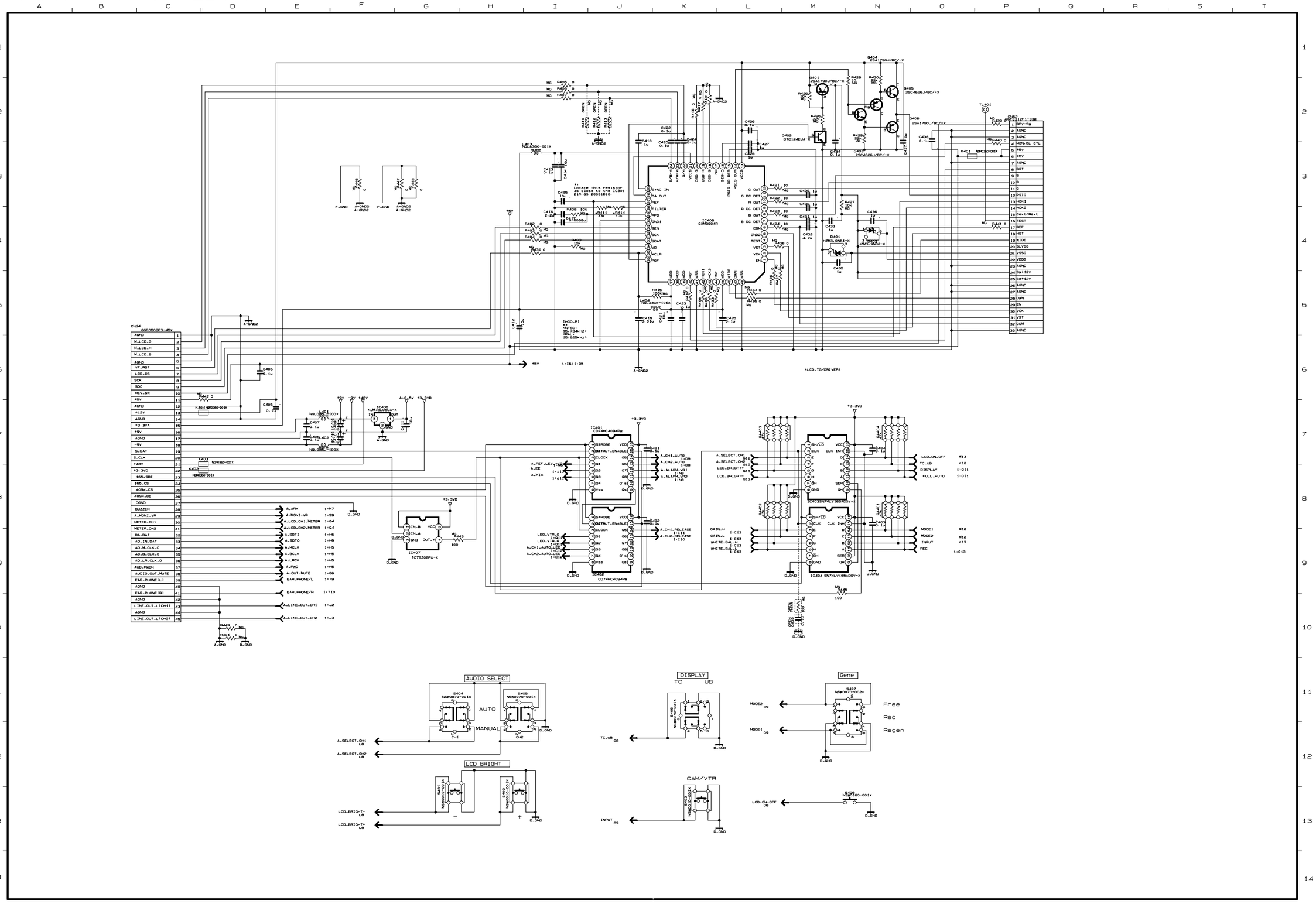
IC1	B-1B	R2	B-2A	R74	B-2A	R142	B-2A	C50	B-2A	C122	B-1A	L6	B-2B
IC2	B-2A	R3	B-2A	R75	A-2A	R143	B-2A	C53	A-2A	C123	B-1A	L7	B-2B
IC3	B-1B	R4	B-2A	R76	A-3A	R144	B-1A	C54	B-2B			L8	A-3A
IC4	B-1B	R10	B-2A	R78	A-3A	R145	B-2A	C55	B-2B	T1	A-2B	L9	A-3A
IC5	A-2A	R12	B-2A	R79	A-2A	R146	B-2A	C56	B-3B	T2	A-2B	L11	B-2B
IC6	B-2A	R13	A-2B	R80	A-3A	R147	B-2A	C57	A-3B			L12	B-3B
IC7	A-3B	R14	A-2B	R81	A-3A	R148	B-1A	C58	A-3B	TH1	A-3A	L13	A-1A
IC8	A-2A	R15	B-1B	R82	A-3A	R149	B-1A	C59	B-3B	TH2	B-1B	L14	A-1A
IC10	B-1A	R16	B-2B	R83	B-2A	R150	B-2A	C60	A-2B			L15	A-1B
IC11	A-1B	R17	B-2B	R84	B-2A	R151	B-1A	C61	A-2A	CN29	B-3A	L16	A-1B
IC13	A-1A	R18	B-1B	R85	B-2A	R152	B-1A	C62	B-2B	CN30	A-2B	L17	A-2A
IC14	A-1B	R19	B-2B	R86	B-2A	R153	B-2B	C63	B-2B	CN75	B-3A	L18	B-1A
IC15	B-1B	R20	B-2B	R87	B-2A	R154	B-2B	C64	A-2B	CN88	B-2A	L19	B-1A
		R21	B-2B	R88	B-2A	R155	B-3B	C65	A-2B	CN91	A-1A		
Q1	B-2A	R22	B-2B	R89	B-2A	R156	B-1A	C66	B-2B	CN92	A-1B		
Q2	B-2A	R23	B-2A	R90	B-3B	R157	B-1B	C67	B-2B	CN93	B-1B		
Q3	B-2A	R24	B-2B	R91	B-3B			C68	B-2B				
Q4	B-2A	R25	A-2A	R92	B-2B	C2	B-1A	C69	B-2B	K1	B-3A		
Q6	B-1B	R26	A-2A	R93	B-2B	C3	B-1B	C70	B-2B	K2	B-3B		
Q7	B-2A	R27	A-2A	R94	B-2B	C4	B-2A	C71	B-3A	K3	A-3B		
Q8	B-2B	R28	A-2A	R95	B-2B	C5	B-2A	C72	A-3A	K4	A-2B		
Q9	B-2B	R29	A-2A	R96	B-2B	C6	B-1A	C73	B-3A	K5	B-2B		
Q10	A-2A	R30	A-2A	R99	B-3A	C7	B-2A	C74	A-3A	K6	B-2B		
Q11	B-3B	R31	A-2A	R100	B-2A	C8	A-2B	C75	B-2B	K7	B-2B		
Q12	B-3B	R32	A-2A	R101	A-2A	C9	A-2B	C76	B-2B	K8	B-2B		
Q14	B-2A	R33	A-2A	R102	A-2A	C10	B-1B	C77	B-2A	K9	A-2B		
Q15	B-2A	R34	A-2A	R103	A-2A	C11	B-1B	C78	B-3A	K10	B-2B		
Q16	A-3A	R35	A-2A	R104	A-2A	C12	B-2B	C79	B-2A	K11	A-3A		
Q17	A-3A	R37	A-3A	R105	A-1B	C13	B-2B	C80	B-2B	K12	A-3A		
Q18	B-2B	R38	A-3A	R106	B-3A	C14	B-2B	C81	A-3A	K13	B-3A		
Q19	B-2B	R39	A-3B	R107	A-1A	C15	A-2A	C82	B-3B	K14	B-3A		
Q20	B-3A	R40	B-2A	R108	B-1A	C16	A-2A	C83	B-1A	K16	A-2A		
Q21	B-2A	R41	B-2A	R109	A-1A	C17	A-2A	C85	A-1B	K17	B-1B		
Q22	B-2A	R42	B-2A	R110	A-2A	C18	A-2A	C86	A-1A	K18	A-1A		
Q23	A-1A	R43	B-3A	R111	A-2A	C19	A-2A	C87	A-1B	K19	A-1A		
Q25	B-1B	R44	B-3A	R112	A-1A	C20	A-2A	C88	B-1A	K20	A-2A		
		R45	B-3A	R113	A-1B	C21	A-2A	C89	A-1B	K21	B-1A		
D1	B-2A	R46	B-2A	R114	A-1A	C22	A-2A	C91	A-2A	K22	A-1A		
D2	B-2A	R47	B-3A	R115	B-1A	C23	A-2A	C92	B-1B	K23	A-1A		
D3	B-1A	R48	B-3A	R116	B-1A	C24	A-2A	C93	B-1B	K24	B-1A		
D6	B-2B	R49	B-2A	R117	B-1B	C25	A-3A	C94	B-1A				
D7	A-2A	R50	B-2B	R118	B-1A	C26	A-3A	C95	A-1A	VA1	B-1B		
D8	A-2A	R51	B-2A	R119	A-1B	C27	A-2A	C96	A-1B				
D10	B-2B	R52	B-3A	R120	B-1A	C28	A-2A	C97	B-1A	TL1	A-2B		
D11	B-3B	R53	B-3A	R121	B-1B	C29	A-2A	C100	A-1A	TL2	A-2B		
D12	A-2B	R54	B-3A	R122	A-1B	C30	A-2A	C101	A-1B	TL3	A-2B		
D13	B-2B	R55	B-3A	R123	B-2A	C31	B-1B	C102	B-1A	TL4	A-2B		
D14	B-2B	R56	B-3A	R124	B-1B	C32	A-3B	C103	B-1A	TL5	A-1A		
D15	B-2B	R57	B-3A	R125	A-1B	C33	A-3B	C104	B-1A	TL6	A-1A		
D16	B-3A	R58	B-3A	R126	B-2A	C34	A-3A	C105	A-2A	TL7	A-2A		
D17	B-3A	R59	B-2A	R127	B-1B	C35	A-3A	C106	B-2A	TL8	A-1A		
D18	B-3B	R60	B-2A	R128	A-3B	C36	B-2A	C107	A-1B	TL9	A-1A		
D19	B-3A	R61	B-2A	R129	A-1A	C37	B-3A	C108	B-1A	TL10	A-1A		
D20	B-2B	R62	B-3A	R130	A-1A	C38	B-2A	C109	A-1A	TL11	A-3A		
D22	A-1A	R63	B-2A	R131	A-1B	C39	B-3A	C110	B-1A	TL12	A-3A		
D23	B-1A	R64	B-3A	R132	B-1B	C40	B-2A	C111	A-1B	TL13	A-2B		
D24	A-1A	R65	B-2A	R133	A-2B	C41	B-3A	C112	A-2B	TL14	A-2B		
D26	A-1B	R66	B-2A	R134	B-1A	C42	B-2A	C113	A-1B	TL15	A-3B		
D27	A-1B	R67	B-2A	R135	A-2B	C43	B-2A	C114	A-1B				
D28	B-1B	R68	B-2A	R136	A-2B	C44	B-2A	C115	A-1A	F1	A-1A		
D29	B-1B	R69	B-2A	R137	A-1B	C45	B-2A	C116	A-1B				
D30	B-1B	R70	B-2A	R138	A-2B	C46	B-2A	C117	B-2B	L1	A-2A		
D32	B-3B	R71	B-2A	R139	A-1B	C47	B-2A	C118	B-2B	L2	A-3A		
		R72	B-2A	R140	A-2B	C48	B-2A	C119	B-3B	L3	A-3B		
R1	B-2A	R73	B-2A	R141	B-2A	C49	B-2A	C121	B-1A	L5	B-2B		

4-45

4.19 AUDIO SCHEMATIC DIAGRAM 30 (1/2)

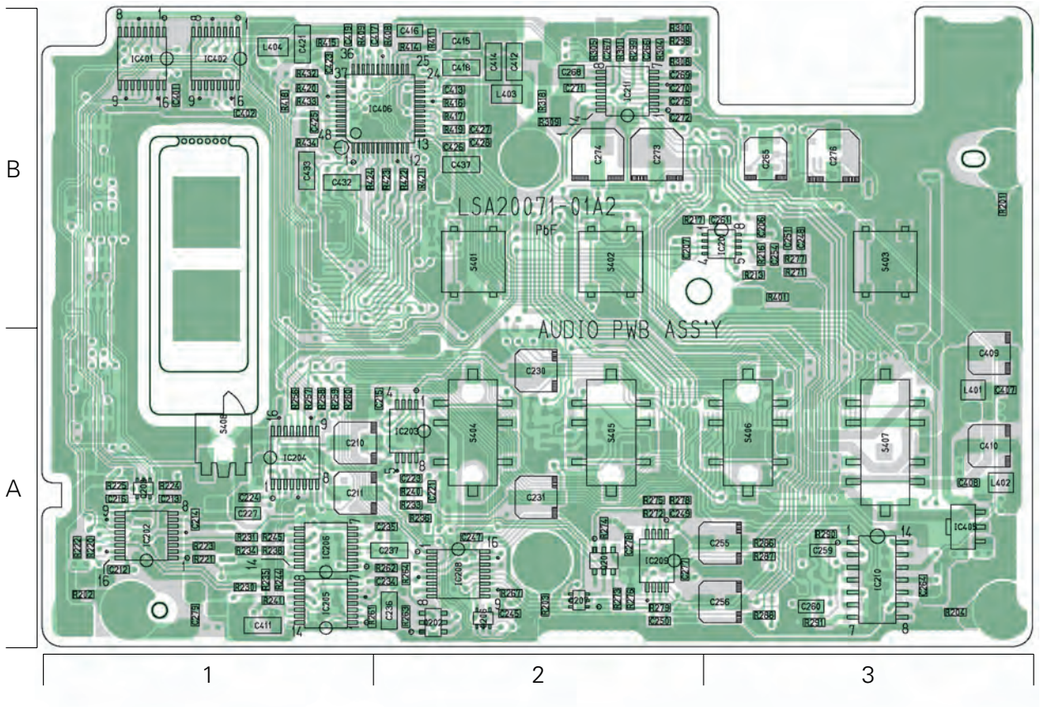


— AUDIO SCHEMATIC DIAGRAM 30 (2/2) —

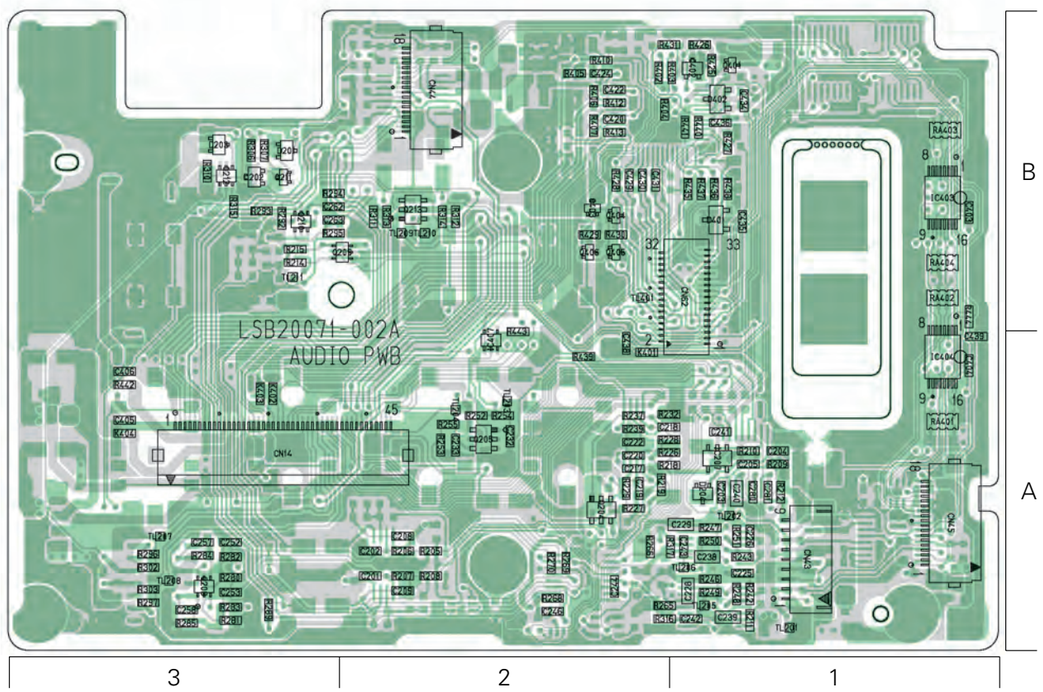


4.20 AUDIO CIRCUIT BOARD

— SIDE A —



— SIDE B —



● **ADDRESS TABLE OF BOARD PARTS**

Each address may have an address error by one interval.

Side A-1C (Y axis / X axis)

IC201	A-3B	R206	B-2A	R257	A-1A	R308	A-2B	R441	B-1B	C242	B-1A	C412	A-2B	TL203	B-2A
IC202	A-1A	R207	B-2A	R258	A-1A	R309	A-2B	R442	B-3A	C243	B-1A	C413	A-2B	TL204	B-2A
IC203	A-2A	R208	B-2A	R259	A-1A	R310	B-3B	R443	B-2B	C244	B-2A	C414	A-2B	TL205	B-1A
IC204	A-1A	R209	B-1A	R260	A-1A	R311	B-2B	R444	B-1B	C245	A-2A	C415	A-2B	TL206	B-1A
IC205	A-1A	R210	B-1A	R261	A-1A	R312	B-2B			C246	B-2A	C416	A-2B	TL207	B-3A
IC206	A-1A	R211	B-1A	R262	A-2A	R313	B-2B	RA401	B-1A	C247	A-2A	C417	A-1B	TL208	B-3A
IC207	B-1A	R212	B-1A	R263	A-2A	R314	B-2B	RA402	B-1B	C248	A-3B	C418	A-2B	TL209	B-2B
IC208	A-2A	R213	A-3B	R264	A-2A	R315	B-3B	RA403	B-1B	C249	A-2A	C419	A-1B	TL210	B-2B
IC209	A-2A	R214	B-3B	R265	B-2A	R316	B-2A	RA404	B-1B	C250	A-2A	C420	B-2B	TL211	B-3B
IC210	A-3A	R215	B-3B	R266	B-2A	R317	B-1A			C251	A-3B	C421	A-1B	TL401	B-2B
IC211	A-2B	R216	A-3B	R267	A-2A	R318	A-2B	C201	B-2A	C252	B-3A	C422	B-2B		
IC401	A-1B	R217	A-2B	R268	B-2A	R401	A-3B	C202	B-2A	C253	B-3A	C423	A-1B	L401	A-3A
IC402	A-1B	R218	B-1A	R269	B-2A	R402	B-2B	C203	B-1A	C254	A-3B	C424	B-2B	L402	A-3A
IC403	B-1B	R219	B-2A	R270	B-2A	R403	B-1B	C204	B-1A	C255	A-3A	C425	A-1B	L403	A-2B
IC404	B-1A	R220	A-1A	R271	A-3B	R404	B-2B	C205	B-1A	C256	A-3A	C426	A-2B	L404	A-1B
IC405	A-3A	R221	A-1A	R272	A-2A	R405	B-2B	C206	A-3B	C257	B-3A	C427	A-2B		
IC406	A-2B	R222	A-1A	R273	A-2A	R406	B-2B	C207	A-2B	C258	B-3A	C428	A-2B		
IC407	B-2B	R223	A-1A	R274	A-2A	R407	B-2B	C208	B-2A	C259	A-3A	C429	B-2B		
		R224	A-1A	R275	A-2A	R408	A-2B	C209	B-2A	C260	A-3A	C430	B-2B		
Q201	A-2A	R225	A-1A	R276	A-2A	R409	A-1B	C210	A-1A	C261	A-3B	C431	B-2B		
Q202	A-2A	R226	B-1A	R277	A-3B	R410	B-2B	C211	A-1A	C262	B-2B	C432	A-1B		
Q203	A-1A	R227	B-2A	R278	A-2A	R411	A-2B	C212	A-1A	C263	B-2B	C433	A-1B		
Q204	B-2A	R228	B-1A	R279	A-2A	R412	B-2B	C213	A-1A	C264	A-3A	C434	B-1B		
Q205	B-2A	R229	B-2A	R280	B-3A	R413	B-2B	C214	A-1A	C265	A-3B	C435	B-1B		
Q206	A-2A	R230	A-1A	R281	B-3A	R414	A-2B	C215	A-2A	C266	A-2B	C436	B-1B		
Q207	A-2A	R231	A-1A	R282	B-3A	R415	A-1B	C216	A-1A	C267	A-2B	C437	A-2B		
Q208	B-3A	R232	B-1A	R283	B-3A	R416	A-2B	C217	B-2A	C268	A-2B	C438	B-2B		
Q209	B-2B	R233	A-2A	R284	B-3A	R417	A-2B	C218	B-1A	C269	A-2B	C439	B-1B		
Q210	B-3B	R234	A-1A	R285	B-3A	R418	A-1B	C219	B-2A	C270	A-2B				
Q211	B-3B	R235	A-1A	R286	A-3A	R419	A-2B	C220	B-2A	C271	A-2B	CN14	B-3A		
Q212	B-3B	R236	A-2A	R287	A-3A	R420	A-1B	C221	A-2A	C272	A-2B	CN43	B-1A		
Q213	B-2B	R237	B-2A	R288	A-3A	R421	A-2B	C222	B-2A	C273	A-2B	CN44	B-2B		
Q401	B-1B	R238	A-1A	R289	B-3A	R422	A-2B	C223	A-2A	C274	A-2B	CN45	B-1A		
Q402	B-1B	R239	B-2A	R290	A-3A	R423	A-2B	C224	A-1A	C275	A-2B	CN62	B-1B		
Q403	B-2B	R240	A-2A	R291	A-3A	R424	A-1B	C225	B-1A	C276	A-3B				
Q404	B-2B	R241	A-1A	R292	B-3B	R425	B-1B	C226	B-1A	C277	A-2A	S401	A-2B		
Q405	B-2B	R242	B-1A	R293	B-3B	R426	B-1B	C227	A-1A	C278	A-2A	S402	A-2B		
Q406	B-2B	R243	B-1A	R294	B-2B	R427	B-1B	C228	B-1A	C279	A-1A	S403	A-3B		
		R244	A-1A	R295	B-2B	R428	B-2B	C229	B-1A	C280	B-1A	S404	A-2A		
D201	B-3B	R245	A-1A	R296	B-3A	R429	B-2B	C230	A-2A	C281	B-1A	S405	A-2A		
D202	B-3B	R246	B-1A	R297	B-3A	R430	B-2B	C231	A-2A	C401	A-1B	S406	A-3A		
D203	B-3B	R247	B-1A	R298	A-2B	R431	B-1B	C232	B-2A	C402	A-1B	S407	A-3A		
D204	B-1A	R248	B-1A	R299	A-2B	R432	A-1B	C233	B-2A	C403	B-1B	S408	A-1A		
D401	B-1B	R249	B-1A	R300	A-2B	R433	A-1B	C234	A-2A	C404	B-1A				
D402	B-1B	R250	B-1A	R301	A-2B	R434	A-1B	C235	A-2A	C405	B-3A	K401	B-2A		
		R251	B-1A	R302	B-3A	R435	B-1B	C236	A-2A	C406	B-3A	K402	B-3A		
R201	A-3B	R252	B-2A	R303	B-3A	R436	B-1B	C237	A-2A	C407	A-3A	K403	B-3A		
R202	A-1A	R253	B-2A	R304	A-2B	R437	B-1B	C238	B-1A	C408	A-3A	K404	B-3A		
R203	A-2A	R254	B-2A	R305	A-2B	R438	B-1B	C239	B-1A	C409	A-3A				
R204	A-3A	R255	B-2A	R306	B-3B	R439	B-2A	C240	B-1A	C410	A-3A	TL201	B-1A		
R205	B-2A	R256	A-1A	R307	B-3B	R440	B-1B	C241	B-1A	C411	A-1A	TL202	B-1A		

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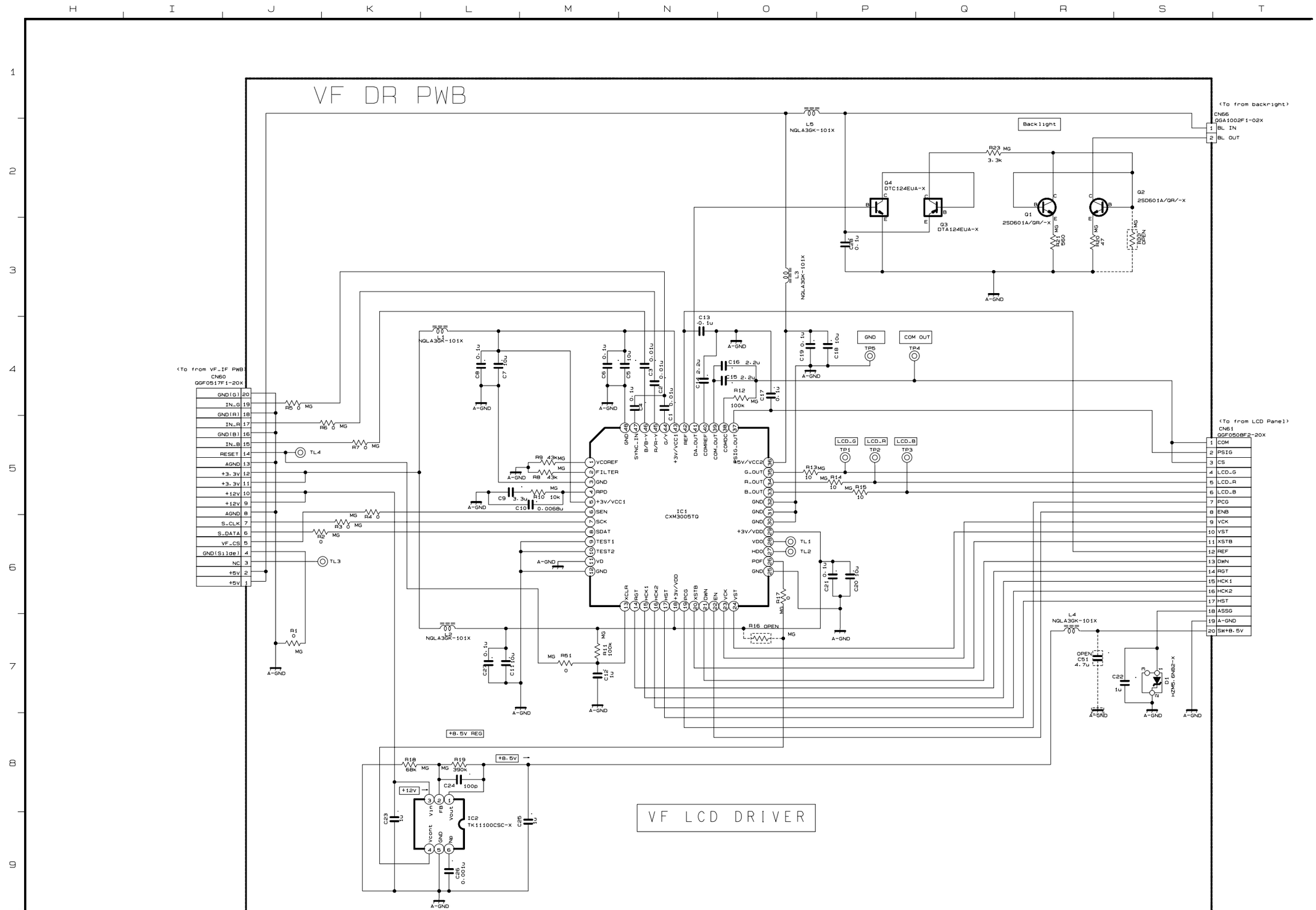
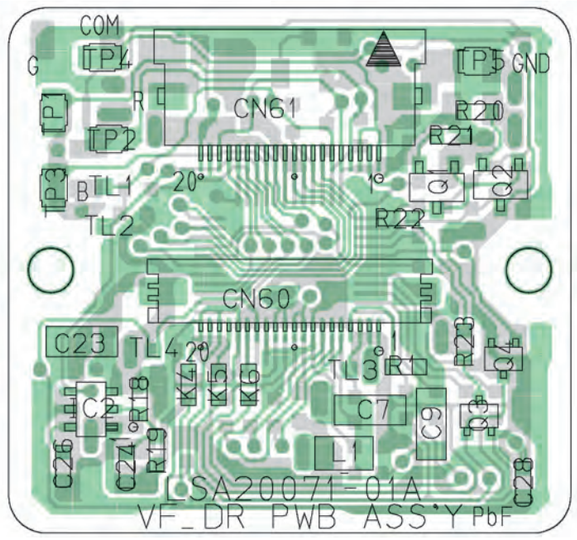
4.21 VF DR SCHEMATIC DIAGRAM 3 4



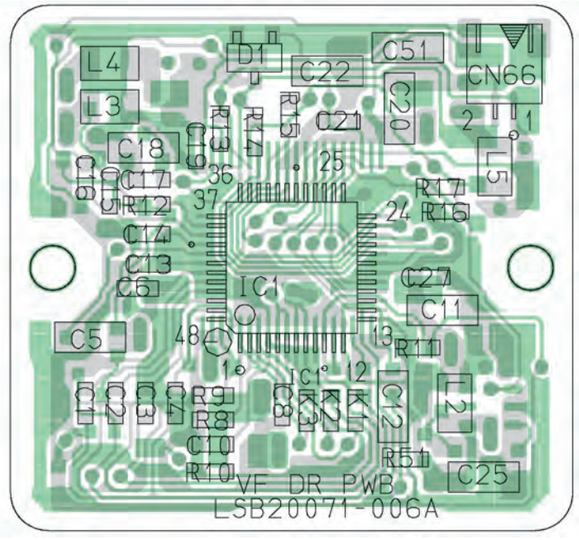
4.22 VF DR & LINESEL CIRCUIT BOARDS

■VF DR

— SIDE A —

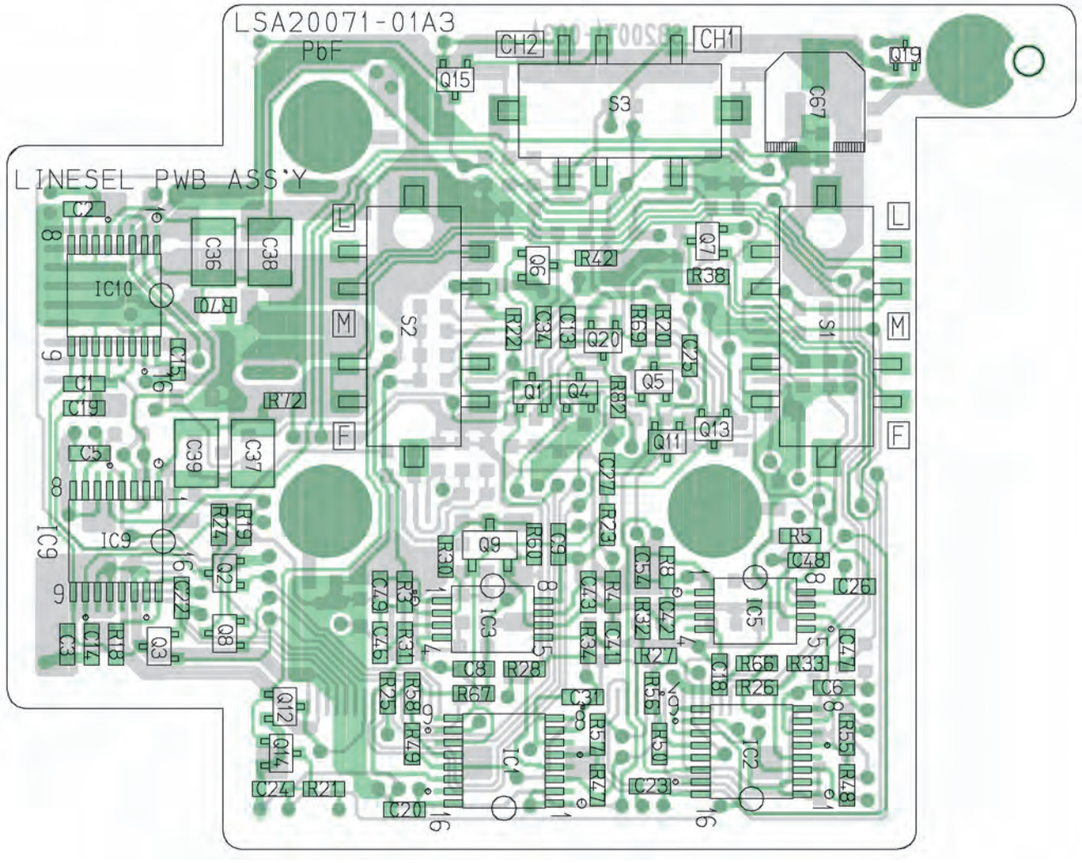


— SIDE B —

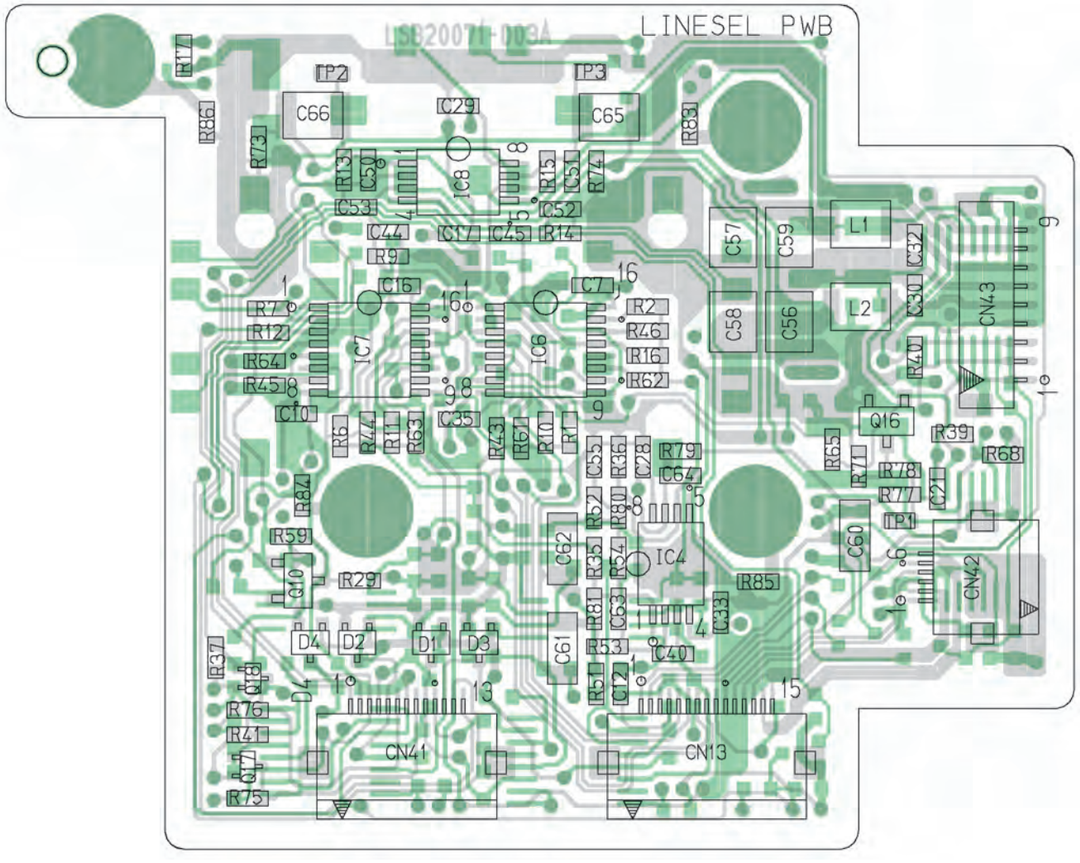


■LINESEL

— SIDE A —

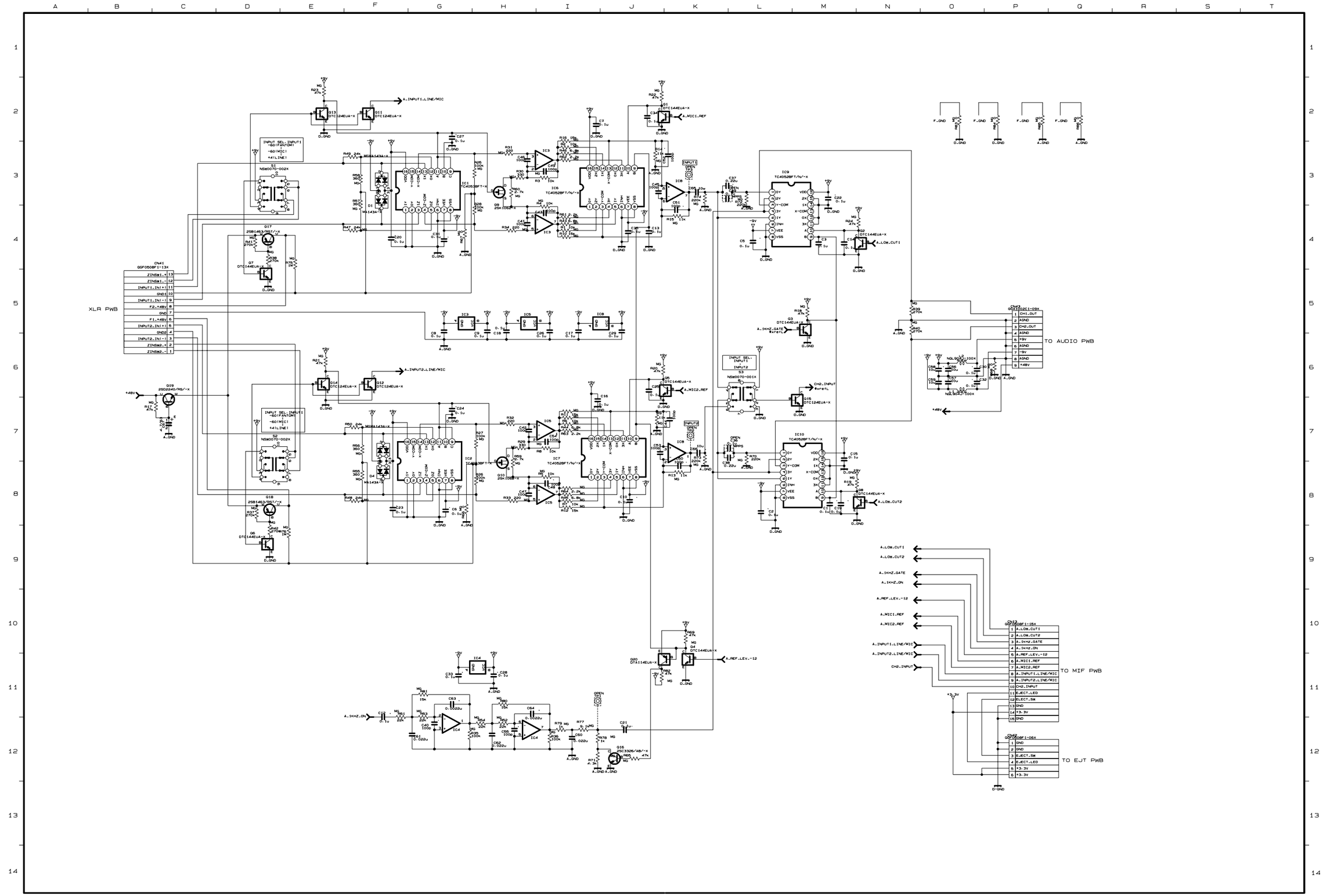


— SIDE B —

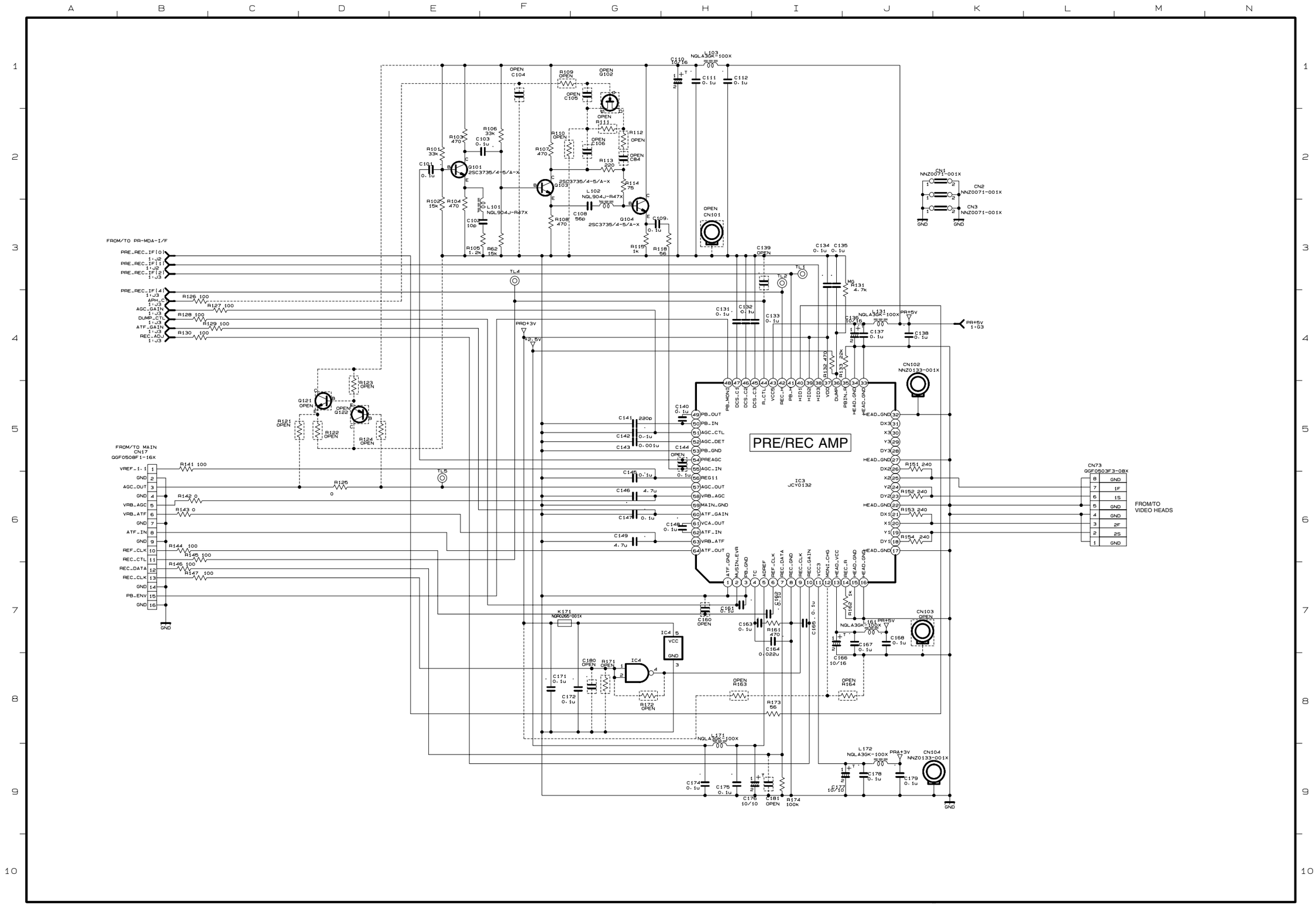


4-50

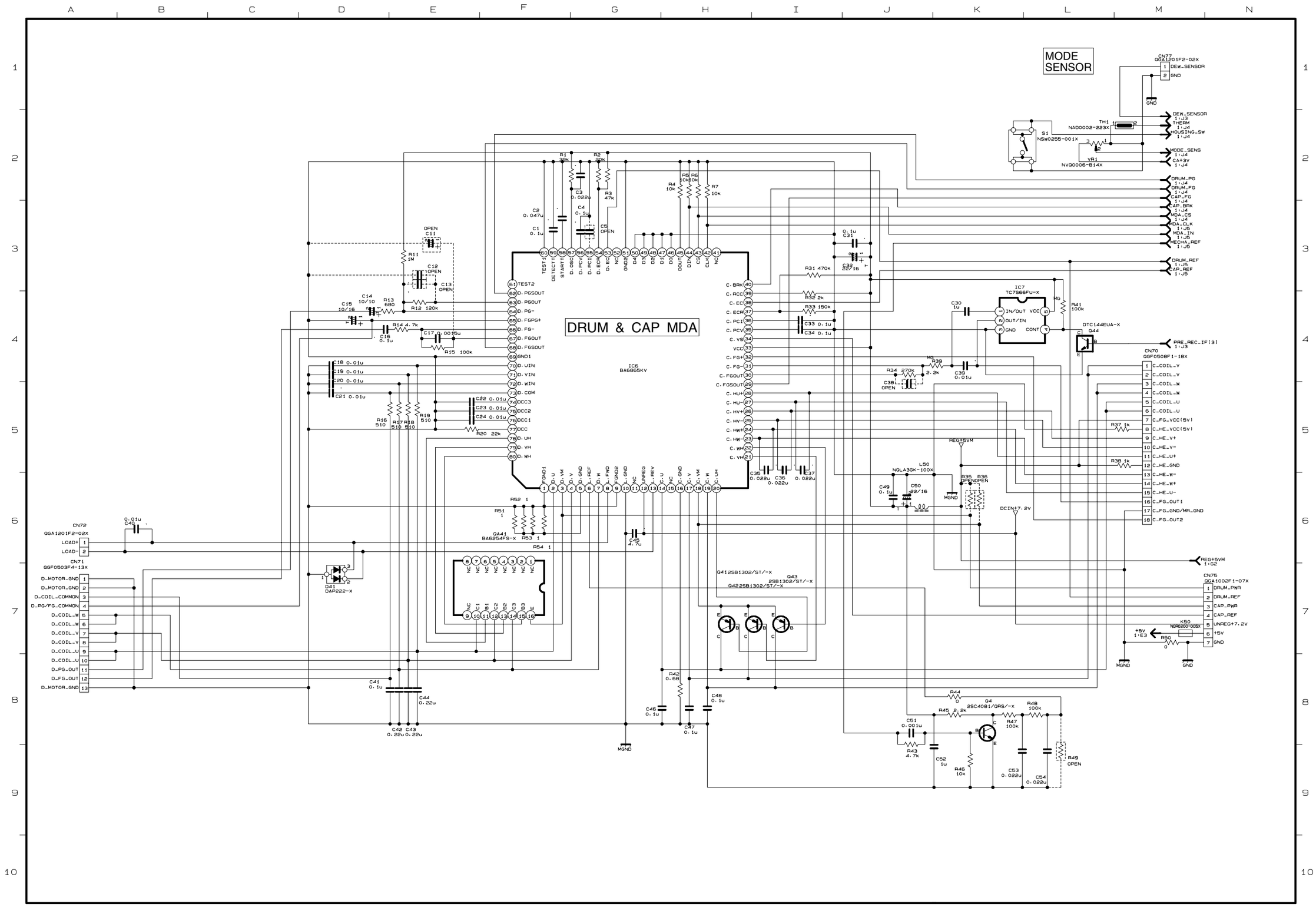
4.23 LINESEL SCHEMATIC DIAGRAM 3 1

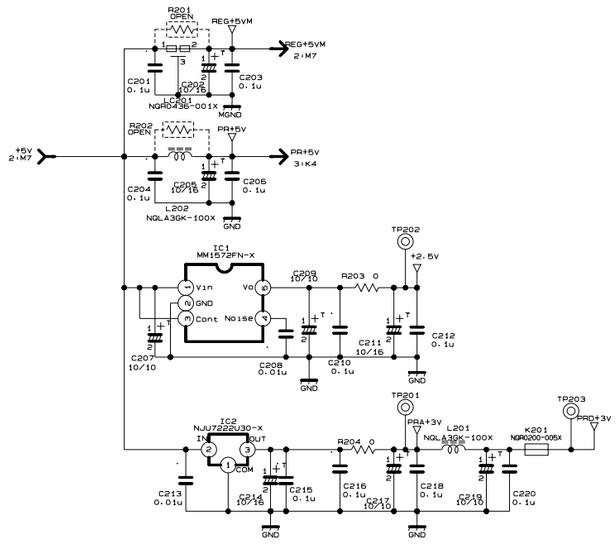


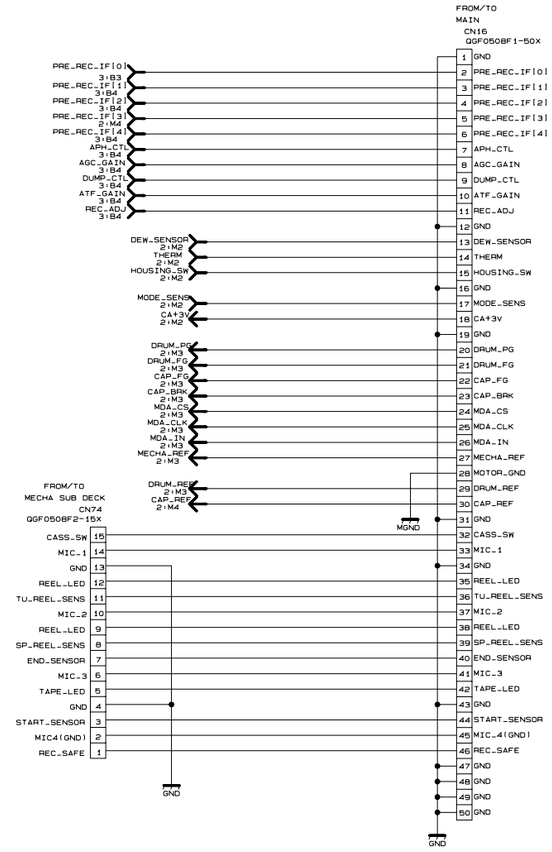
4.24 PRMDA SCHEMATIC DIAGRAM 33 (1/3)



— PRMDA SCHEMATIC DIAGRAM 33 (2/3) —

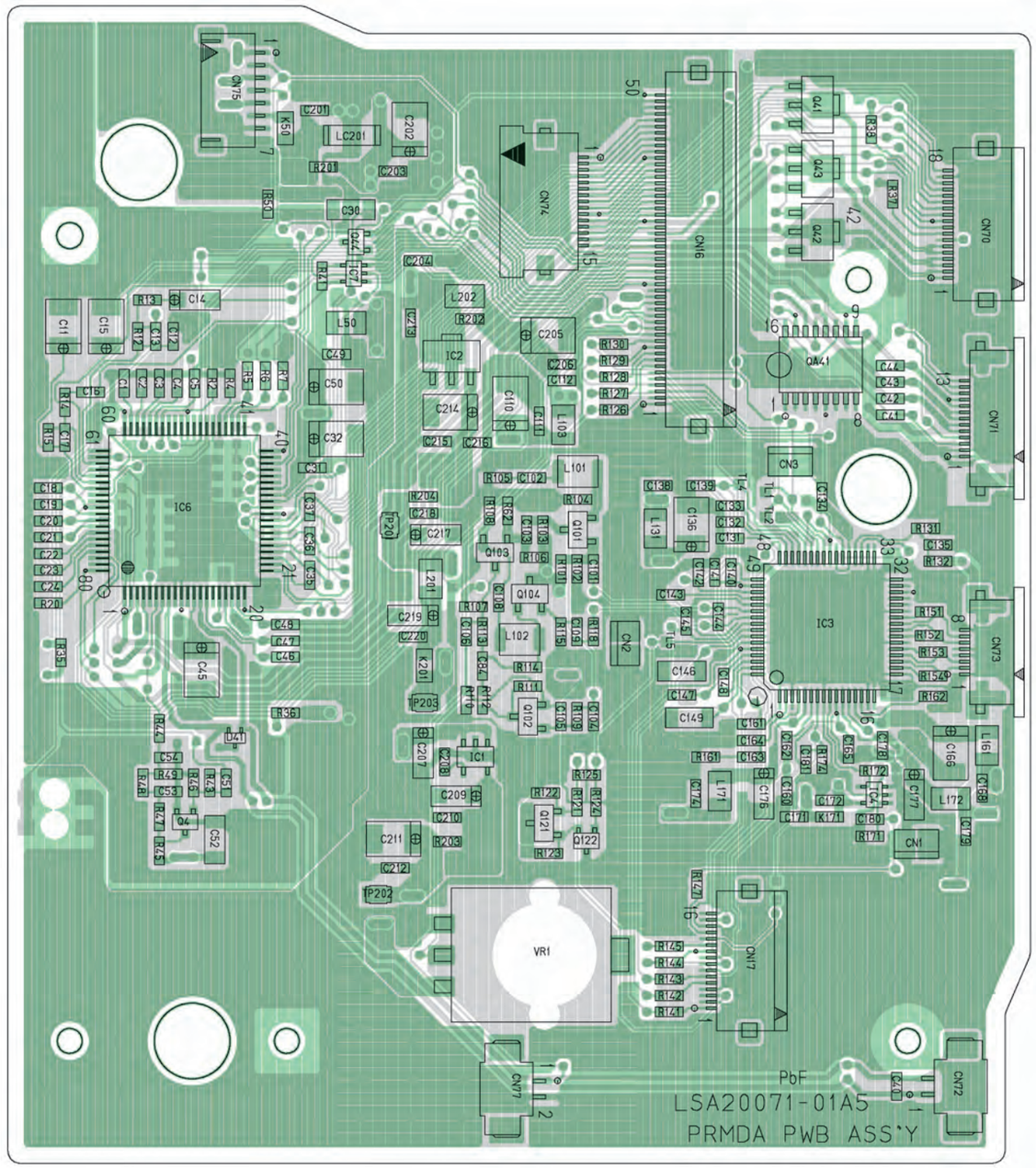



R201 OPEN
REG+5VM
REG+5VM 2:M7
C201 0.1u
C202 10/16
C203 0.1u
L201 NQR0436-001X
MGND
R202 OPEN
PR+5V
+5V 2:M7
PR+5V 3:K4
C204 0.1u
C205 10/16
C206 0.1u
L202 NQL43GK-100X
GND
IC1 MM1572FN-X
Vin
GND
Cont
Vo
Noise
C209 10/10
R203 0
+2.5V
TP202
C207 10/10
C208 0.01u
C210 0.1u
C211 10/16
C212 0.1u
IC2 NJU7222U30-X
IN
COM
OUT
TP201
PRA+3V
L201 NQL43GK-100X
K201 NQR0200-005X
TP203
PRD+3V
R204 0
C213 0.01u
C214 10/16
C215 0.1u
C216 0.1u
C217 10/10
C218 0.1u
C219 10/16
C220 0.1u

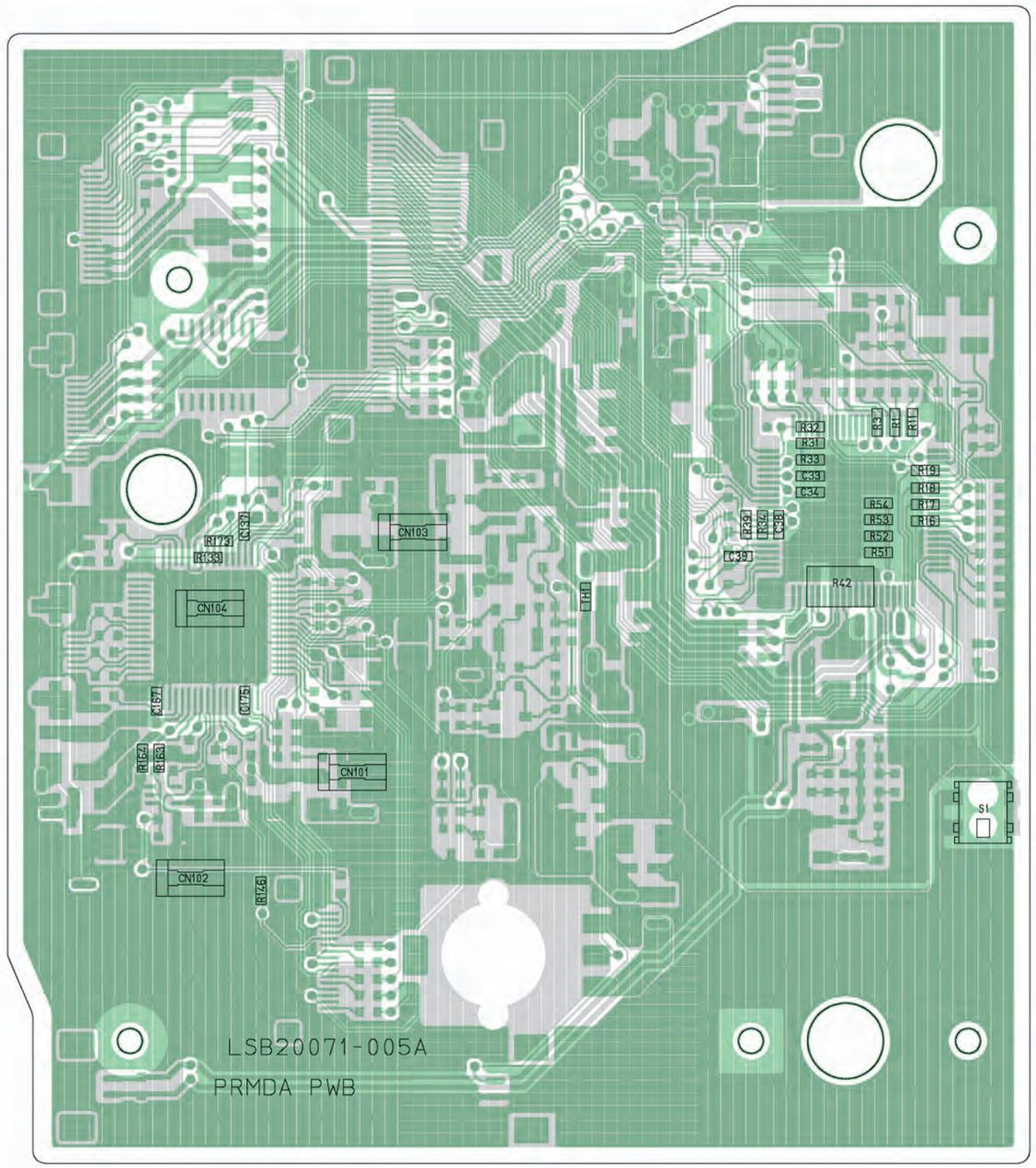

FROM/TO MAIN CN16 QGF0508F1-50X
PRE_REC_IF[0] 3:B3
PRE_REC_IF[1] 3:B4
PRE_REC_IF[2] 3:B4
PRE_REC_IF[3] 2:M4
PRE_REC_IF[4] 3:B4
APH_CTL 3:B4
AGC_GAIN 3:B4
DUMP_CTL 3:B4
ATF_GAIN 3:B4
REC_ADJ 3:B4
DEW_SENSOR 2:M2
THERM 2:M2
HOUSING_SW 2:M2
MODE_SENS 2:M2
CA+3V 2:M2
DRUM_PG 2:M3
DRUM_FG 2:M3
CAP_FG 2:M3
CAP_BRK 2:M3
MDA_CS 2:M3
MDA_CLK 2:M3
MDA_IN 2:M3
MECHA_REF 2:M3
DRUM_REF 2:M3
CAP_REF 2:M4
MGND
FROM/TO MECHA SUB DECK CN74 QGF0508F2-15X
CASS_SW
MIC_1
GND
REEL_LED
TU_REEL_SENS
MIC_2
REEL_LED
SP_REEL_SENS
END_SENSOR
MIC_3
TAPE_LED
GND
START_SENSOR
MIC4(GND)
REC_SAFE
GND
1 GND
2 PRE_REC_IF[0]
3 PRE_REC_IF[1]
4 PRE_REC_IF[2]
5 PRE_REC_IF[3]
6 PRE_REC_IF[4]
7 APH_CTL
8 AGC_GAIN
9 DUMP_CTL
10 ATF_GAIN
11 REC_ADJ
12 GND
13 DEW_SENSOR
14 THERM
15 HOUSING_SW
16 GND
17 MODE_SENS
18 CA+3V
19 GND
20 DRUM_PG
21 DRUM_FG
22 CAP_FG
23 CAP_BRK
24 MDA_CS
25 MDA_CLK
26 MDA_IN
27 MECHA_REF
28 MOTOR_GND
29 DRUM_REF
30 CAP_REF
31 GND
32 CASS_SW
33 MIC_1
34 GND
35 REEL_LED
36 TU_REEL_SENS
37 MIC_2
38 REEL_LED
39 SP_REEL_SENS
40 END_SENSOR
41 MIC_3
42 TAPE_LED
43 GND
44 START_SENSOR
45 MIC_4(GND)
46 REC_SAFE
47 GND
48 GND
49 GND
50 GND
GND

4.25 PRMDA CIRCUIT BOARD

– SIDE A –

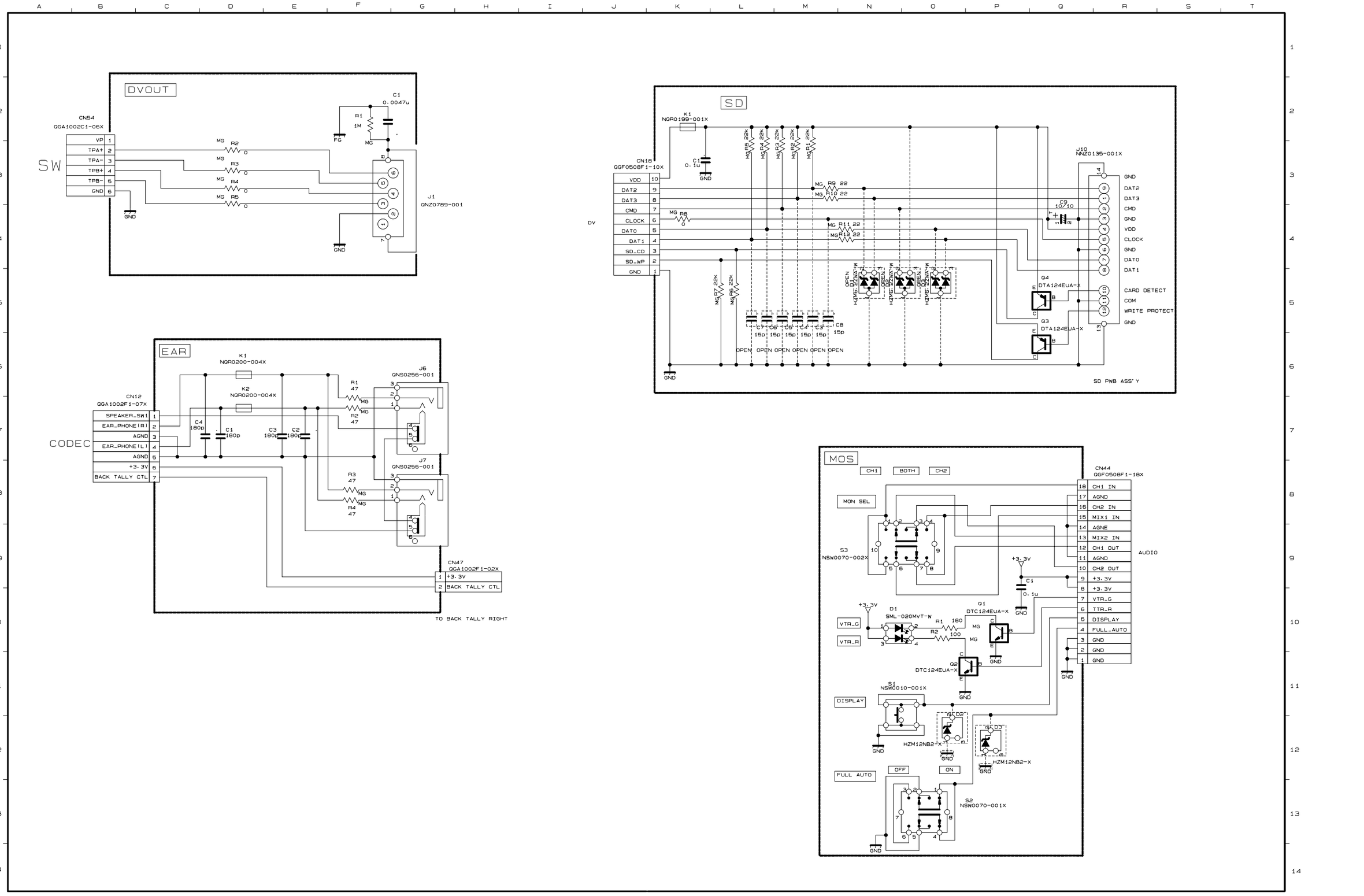


– SIDE B –



4-55

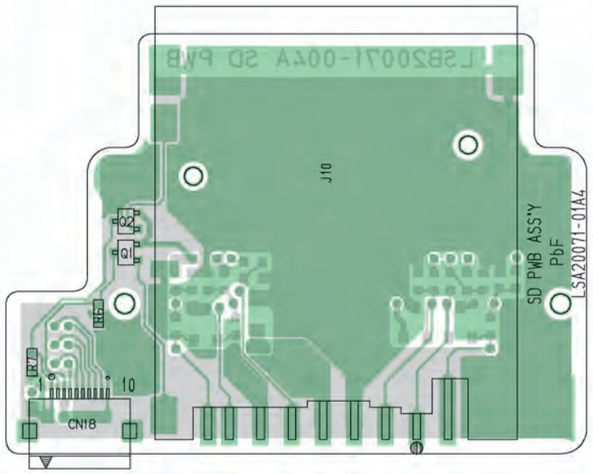
4.26 SD 32, MOS 35, DVOUT 43 and EAR 44 SCHEMATIC DIAGRAM



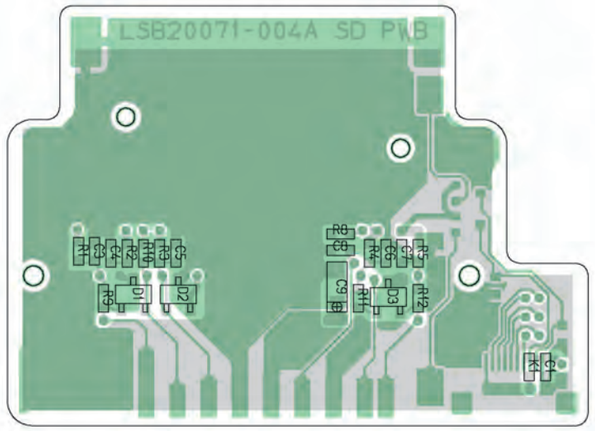
4.27 SD 32, MOS 35, DVOUT 43 and EAR 44 CIRCUIT BOARDS

■SD

– SIDE A –

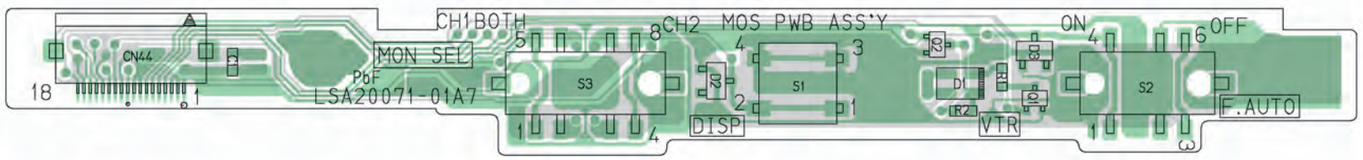


– SIDE B –



■MOS

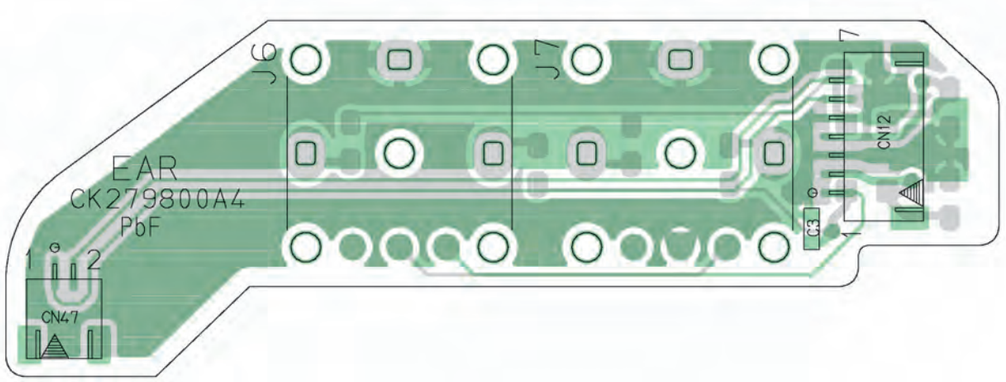
– SIDE A –



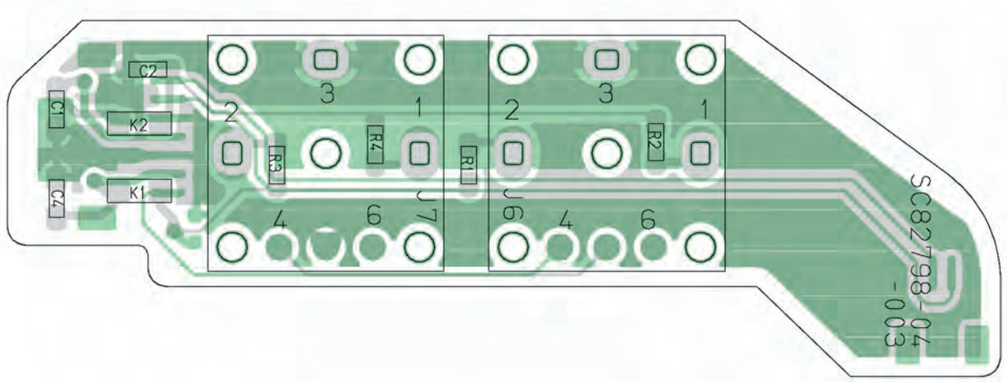
– SIDE B –

■EAR

– SIDE A –

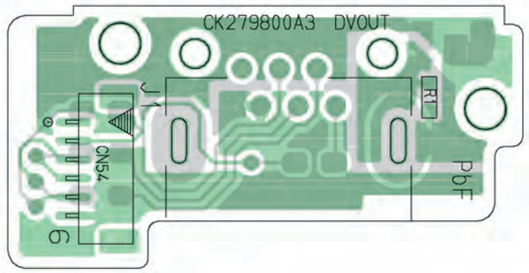


– SIDE B –

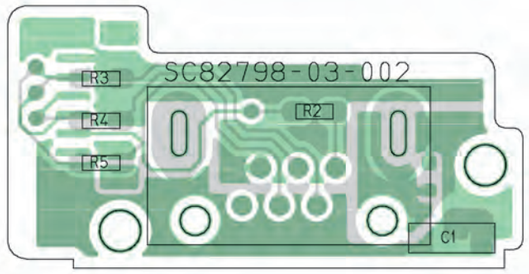


■DV OUT

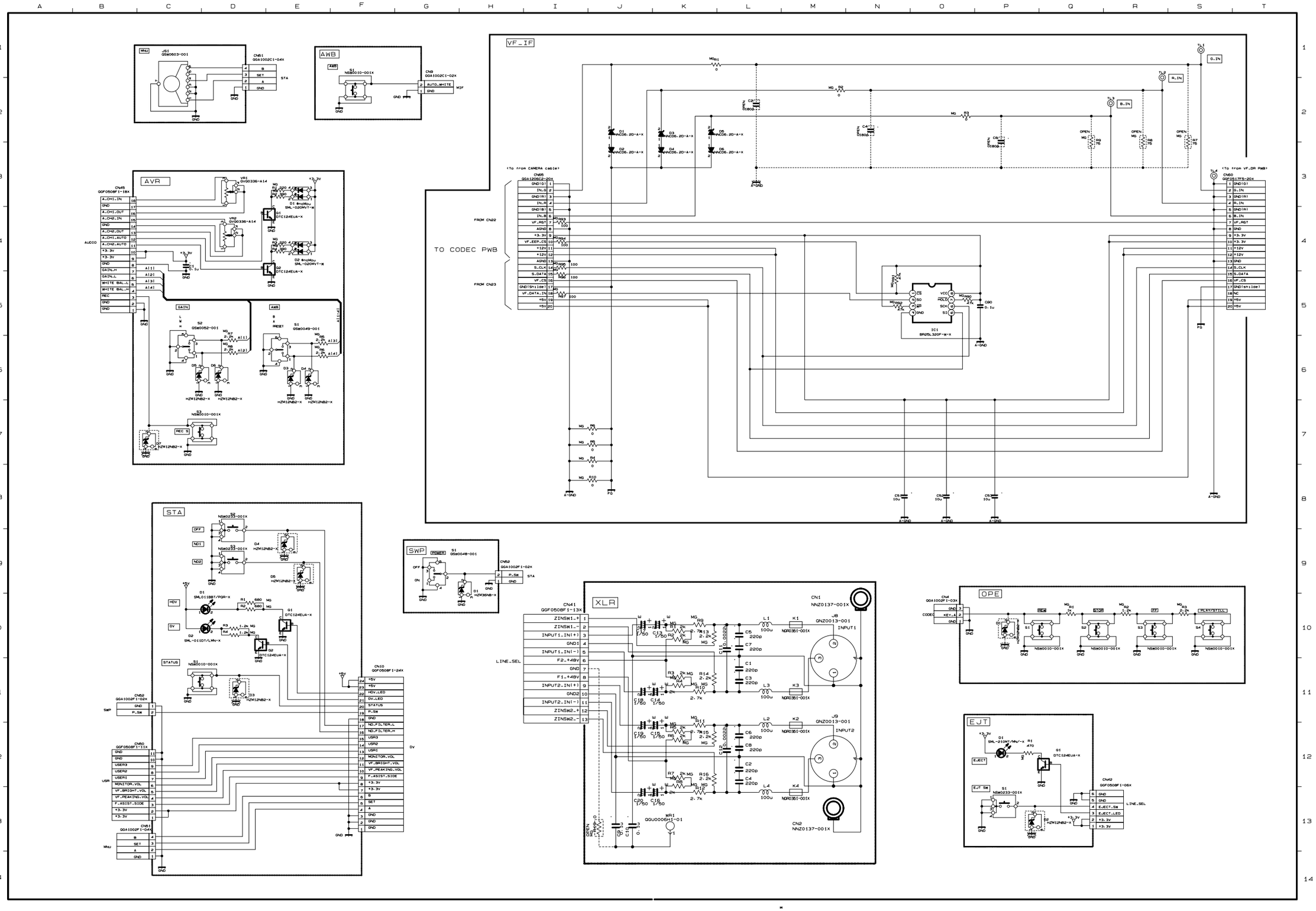
– SIDE A –



– SIDE B –



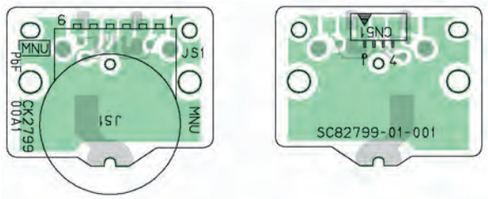
4.28 MNU 51, OPE 52, EJT 53, VF IF 54, AWB 55, XLR 56, SWP 57, STA 58 and AVR 59 SCHEMATIC DIAGRAMS



4.29 MNU 51, OPE 52, EJT 53, VF IF 54, AWB 55, XLR 56, SWP 57, STA 58 and AVR 59 CIRCUIT BOARDS

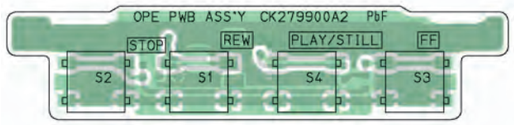
■MNU

– SIDE A –

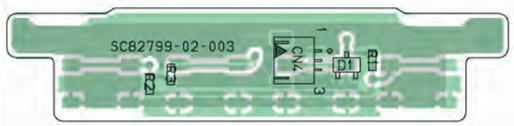


■OPE

– SIDE A –

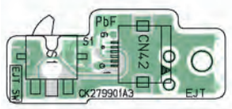


– SIDE B –



■EJT

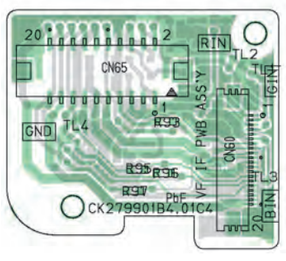
– SIDE A –



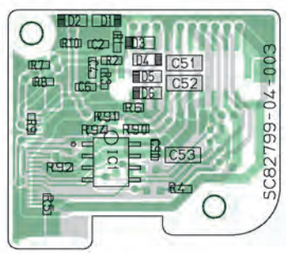
– SIDE B –

■VF IF

– SIDE A –

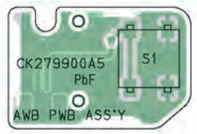


– SIDE B –

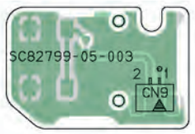


■AWB

– SIDE A –

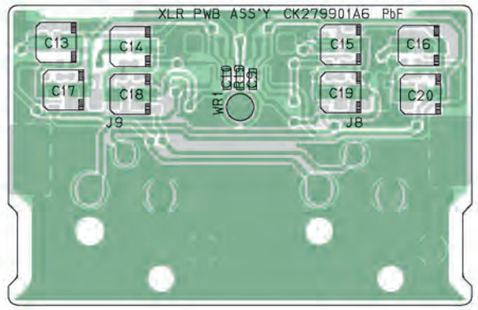


– SIDE B –

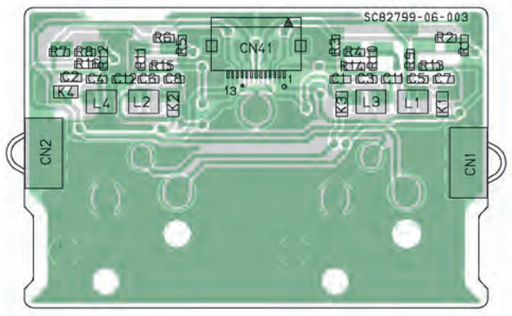


■XLR

– SIDE A –

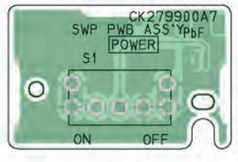


– SIDE B –

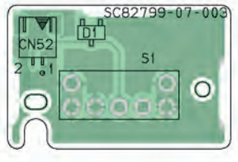


■SWP

– SIDE A –

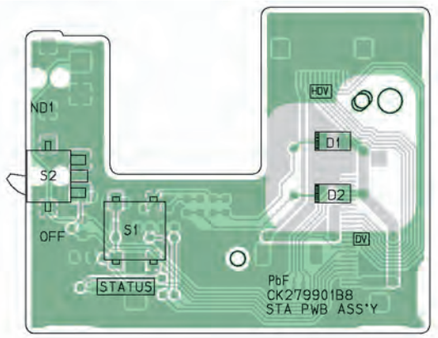


– SIDE B –

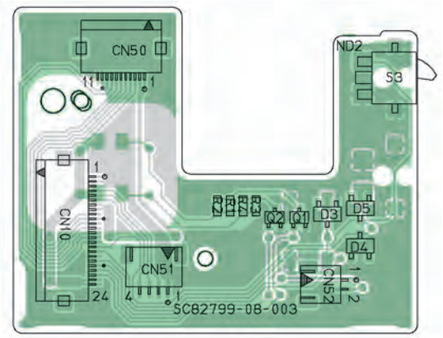


■STA

– SIDE A –

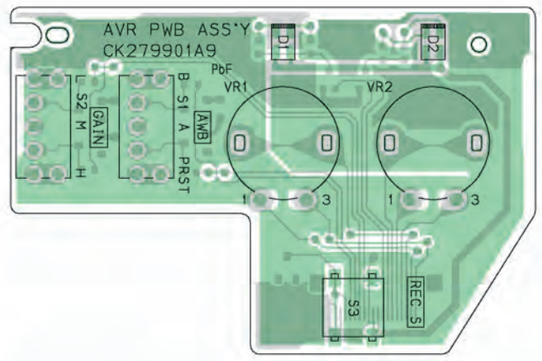


– SIDE B –

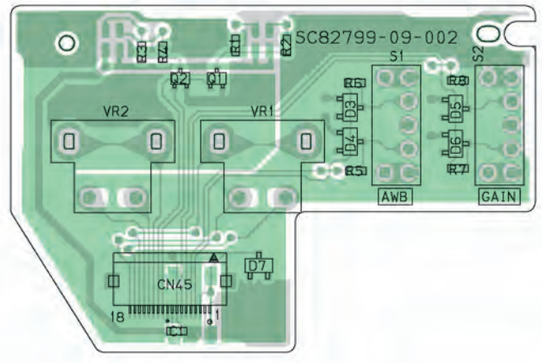


■AVR

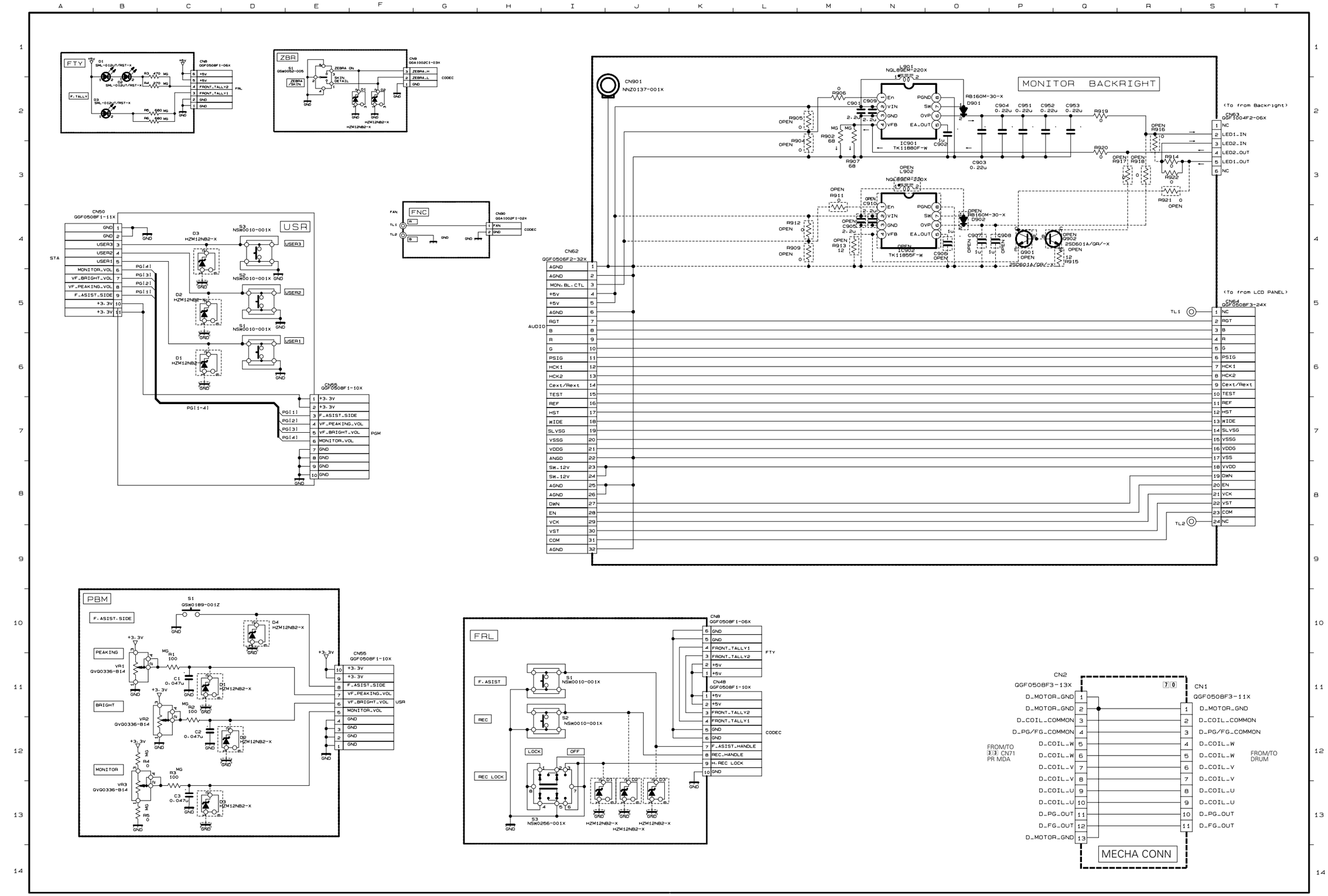
– SIDE A –



– SIDE B –



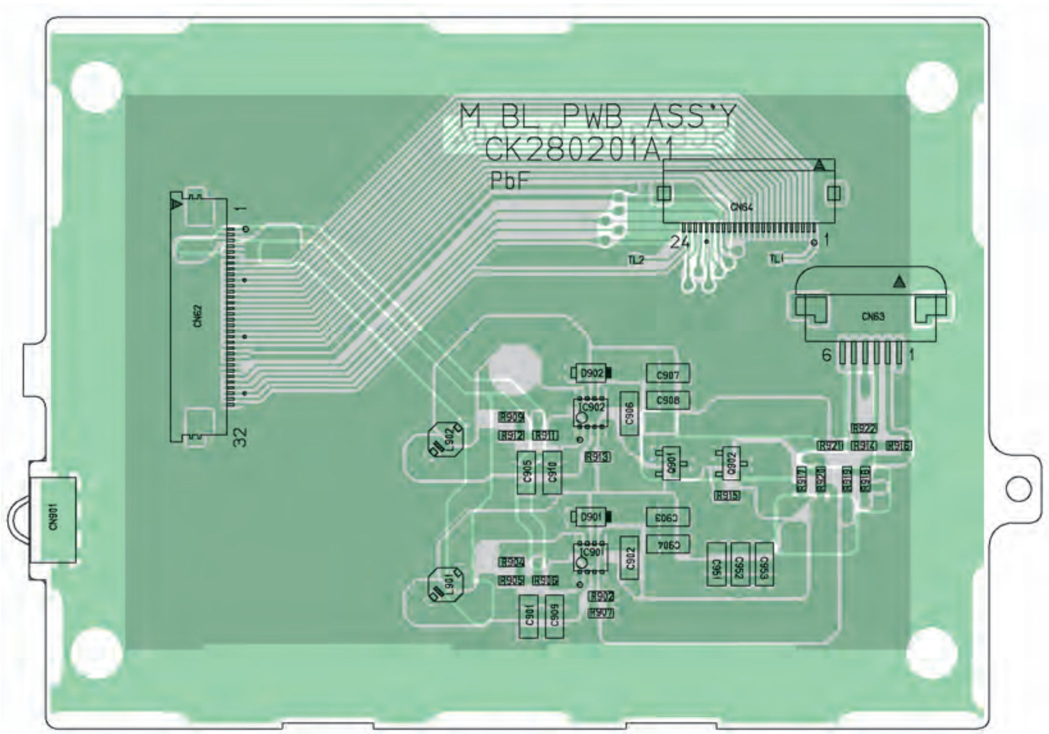
4-59


FTY
ZBR
FNC
USR
PBM
FRL
MONITOR BACKRIGHT
CN901
NNZ0137-001X
CN62
QGF0508F2-32X
CN50
QGF0508F1-11X
CN56
QGF0508F1-10X
CN55
QGF0508F1-10X
CN8
QGF0508F1-06X
CN9
GGA1002C1-03X
CN90
GGA1002F1-02X
CN48
QGF0508F1-10X
CN93
QGF1004F2-06X
CN64
QGF0508F3-24X
CN2
QGF0508F3-13X
CN1
QGF0508F3-11X
IC901
TK11880F-W
IC902
TK11855F-W
L901
NQL6828M-220X
L902
NQL6828M-220X
D901
RB160M-30-X
D902
RB160M-30-X
Q901
2SD601A/QR/-X
Q902
2SD601A/QR/-X
TL1
TL2
(To from Backright)
(To from LCD PANEL)
MECHA CONN
FROM/TO 33 CN71 PR MDA
FROM/TO DRUM

4.31 M BL 61, FTY 62, USR 63, FRL 64, PBM 65, ZBR 66, FNC 68 and MECHA CONN 70 CIRCUIT BOARDS

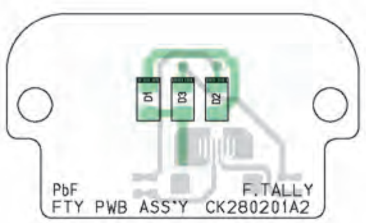
■M BL

– SIDE A –

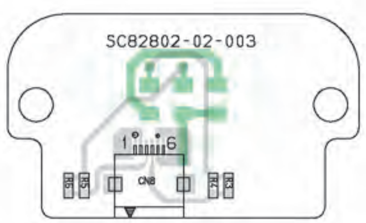


■FTY

– SIDE A –

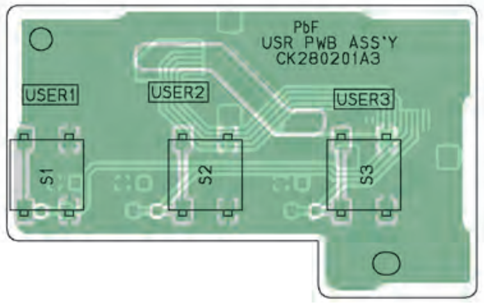


– SIDE B –

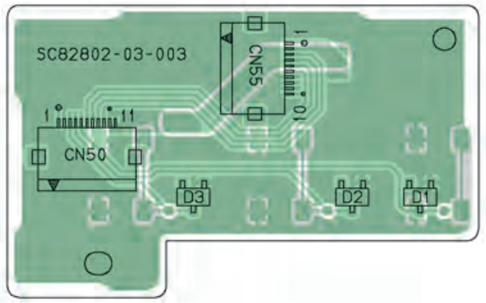


■USR

– SIDE A –

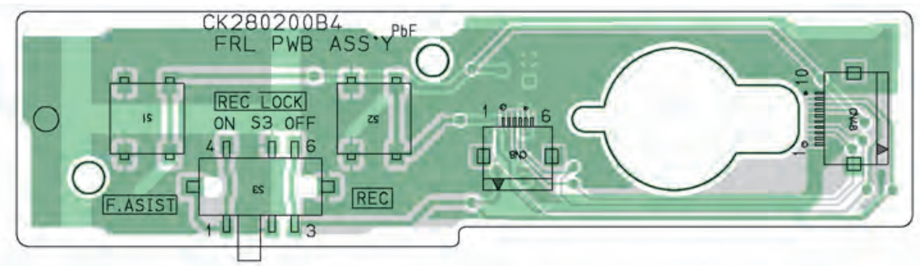


– SIDE B –

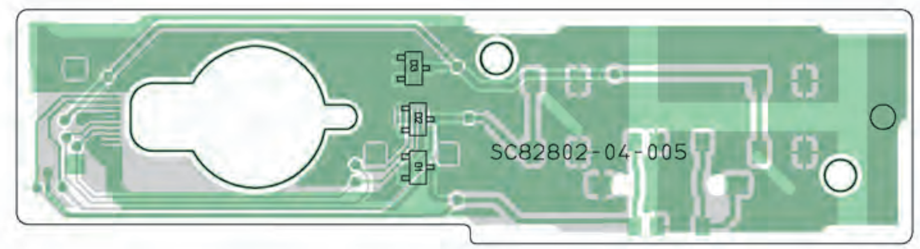


■FRL

– SIDE A –

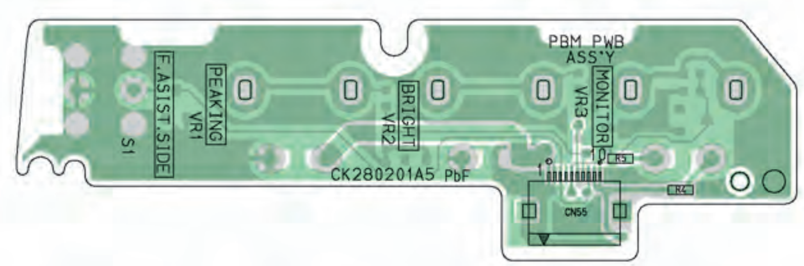


– SIDE B –

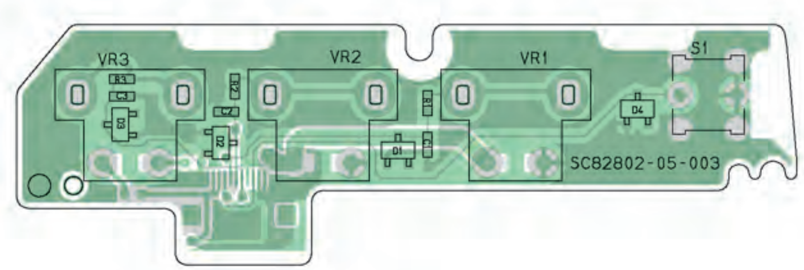


■PBM

– SIDE A –

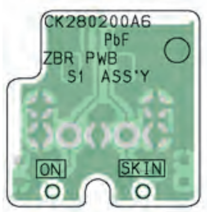


– SIDE B –

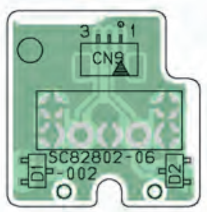


■ZBR

– SIDE A –



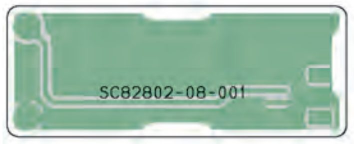
– SIDE B –



■FNC

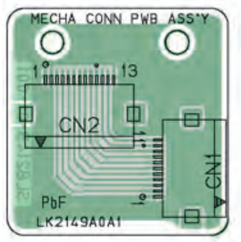
– SIDE A –

– SIDE B –

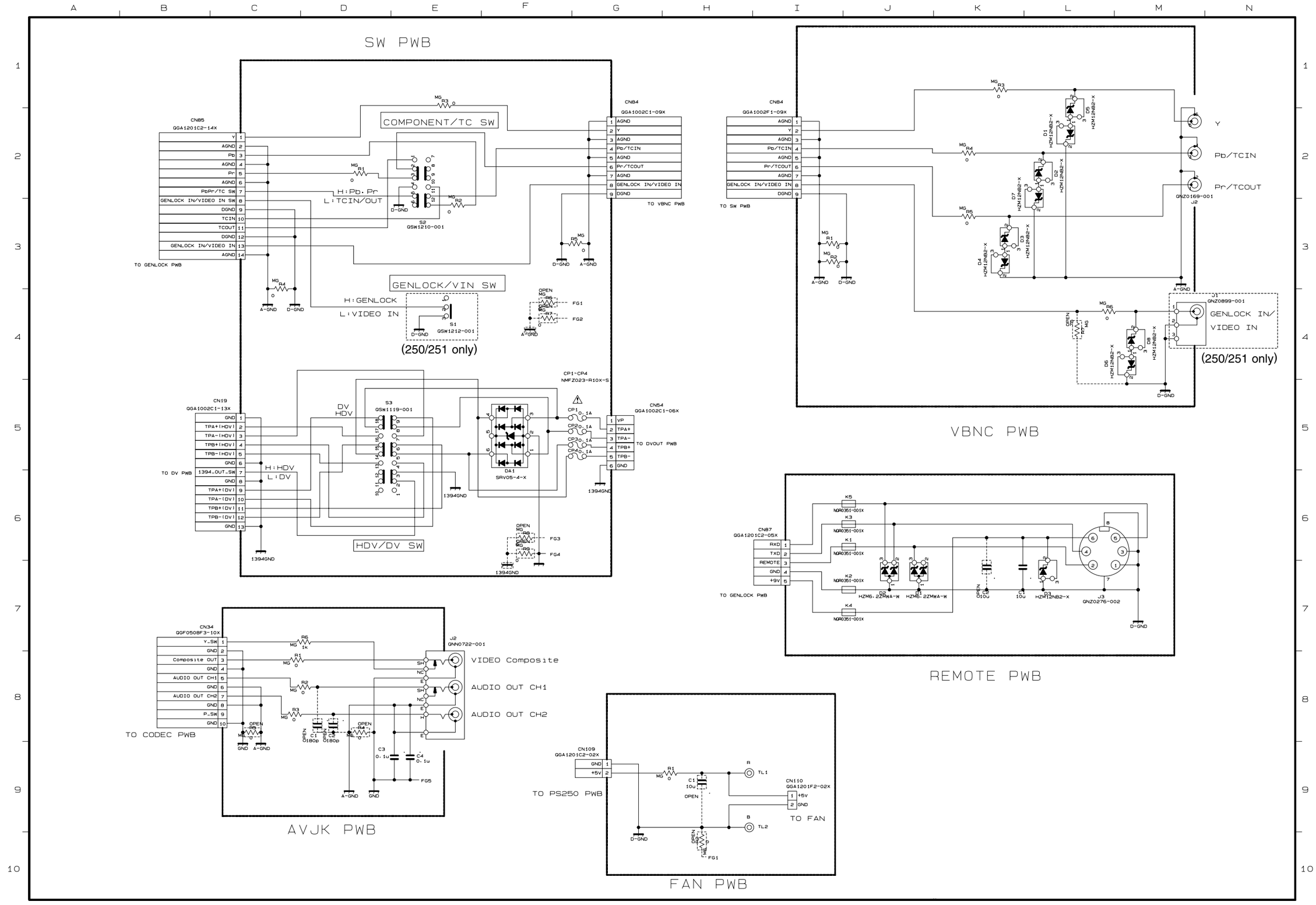


■MECHA CONN

– SIDE A –



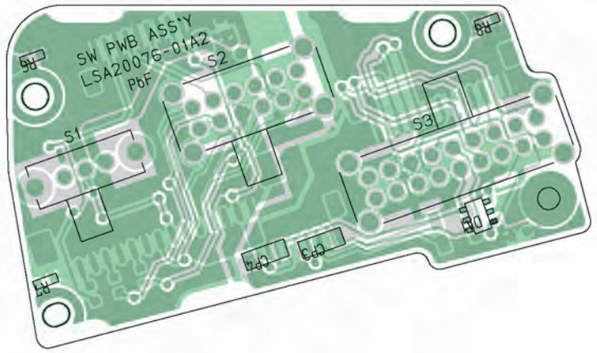
4.32 SW 91, VBNC 92, REMOTE 93, AVJK 94 and FAN 95 SCHEMATIC DIAGRAMS



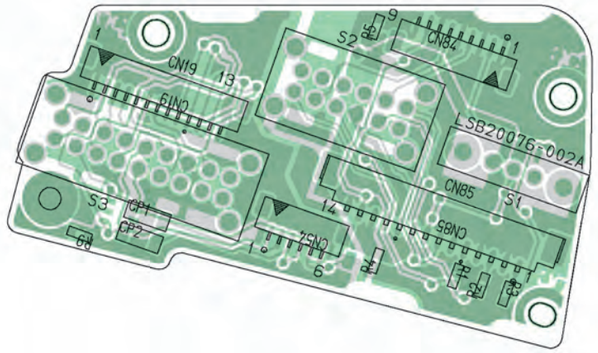
4.33 SW 91, VBNC 92, REMOTE 93, AVJK 94 and FAN 95 CIRCUIT BOARDS

■SW

– SIDE A –

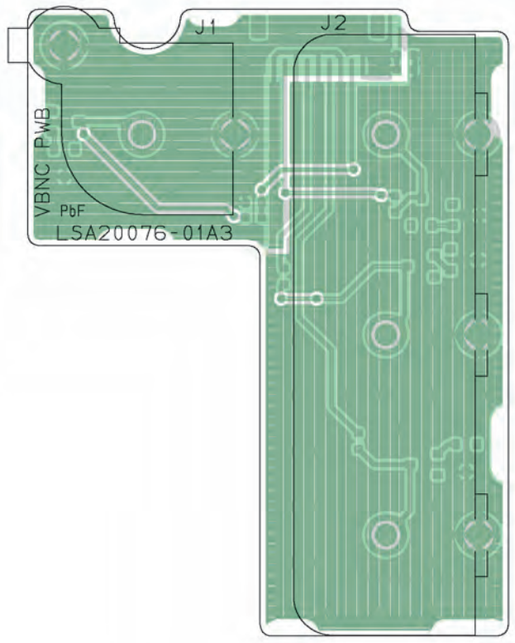


– SIDE B –

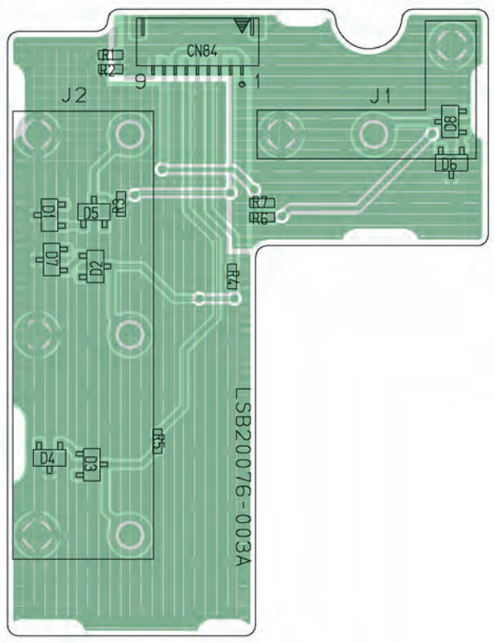


■VBNC

– SIDE A –

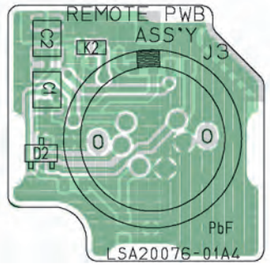


– SIDE B –

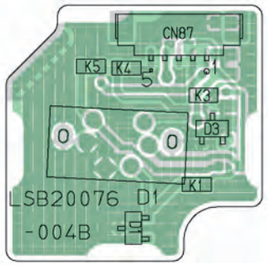


■REMOTE

– SIDE A –

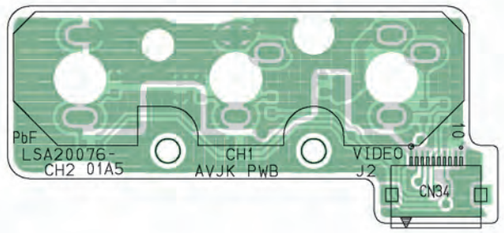


– SIDE B –

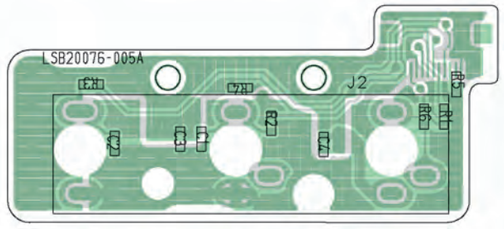


■AVJK

– SIDE A –

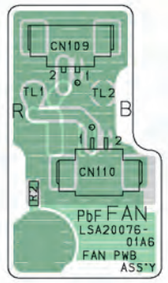


– SIDE B –

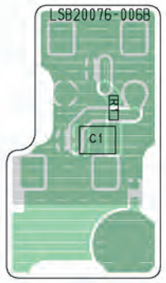


■FAN

– SIDE A –

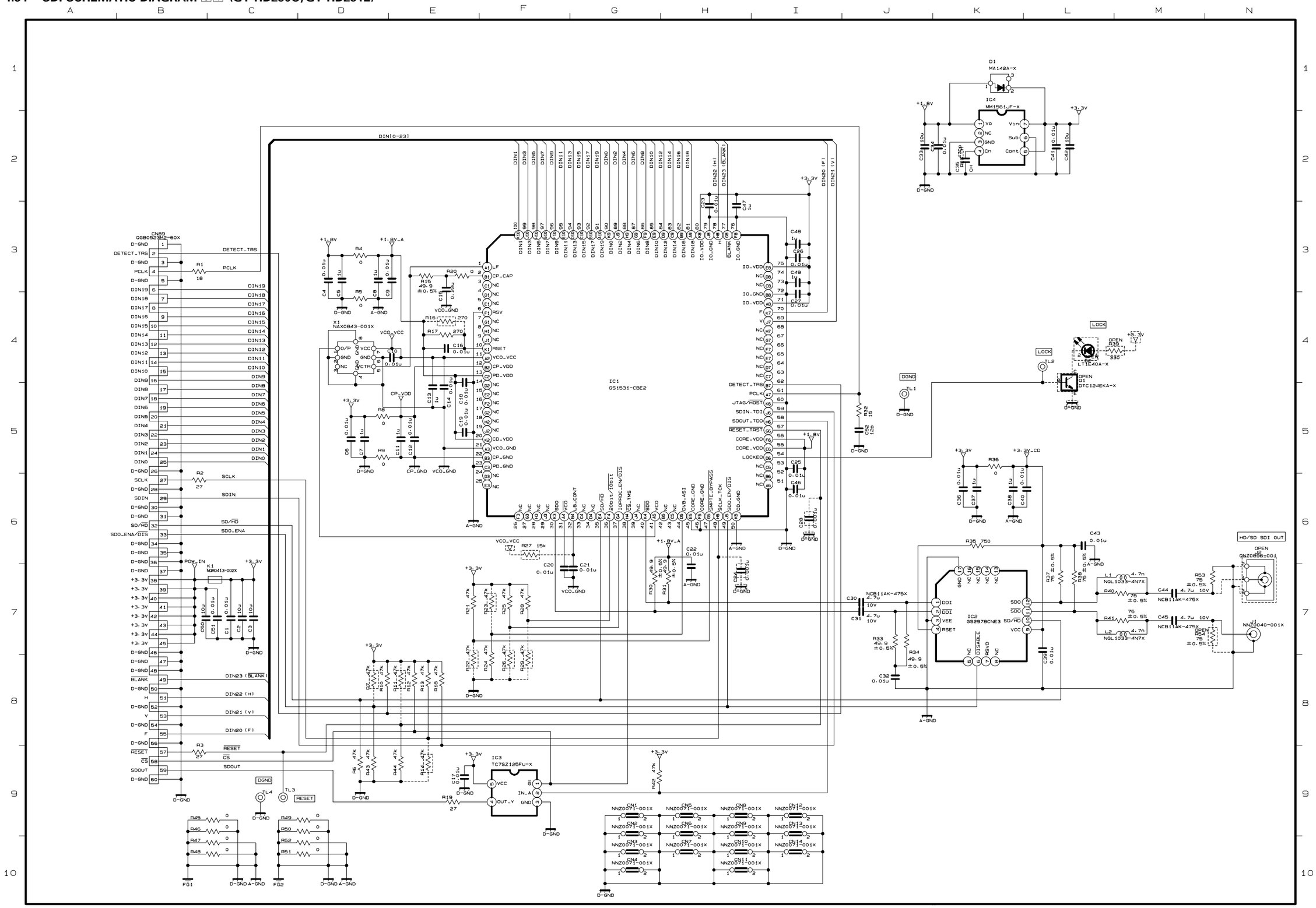


– SIDE B –

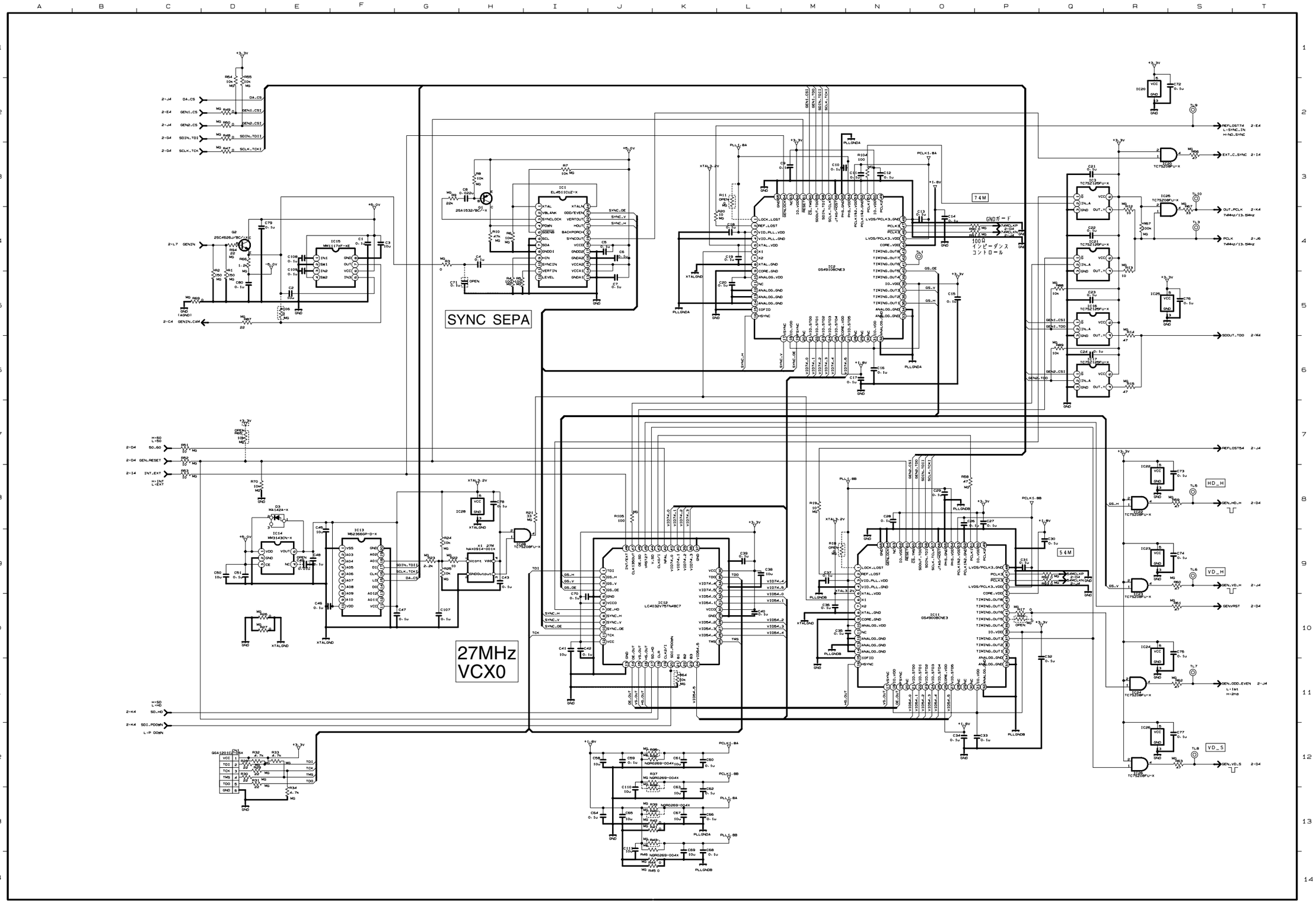


4-63

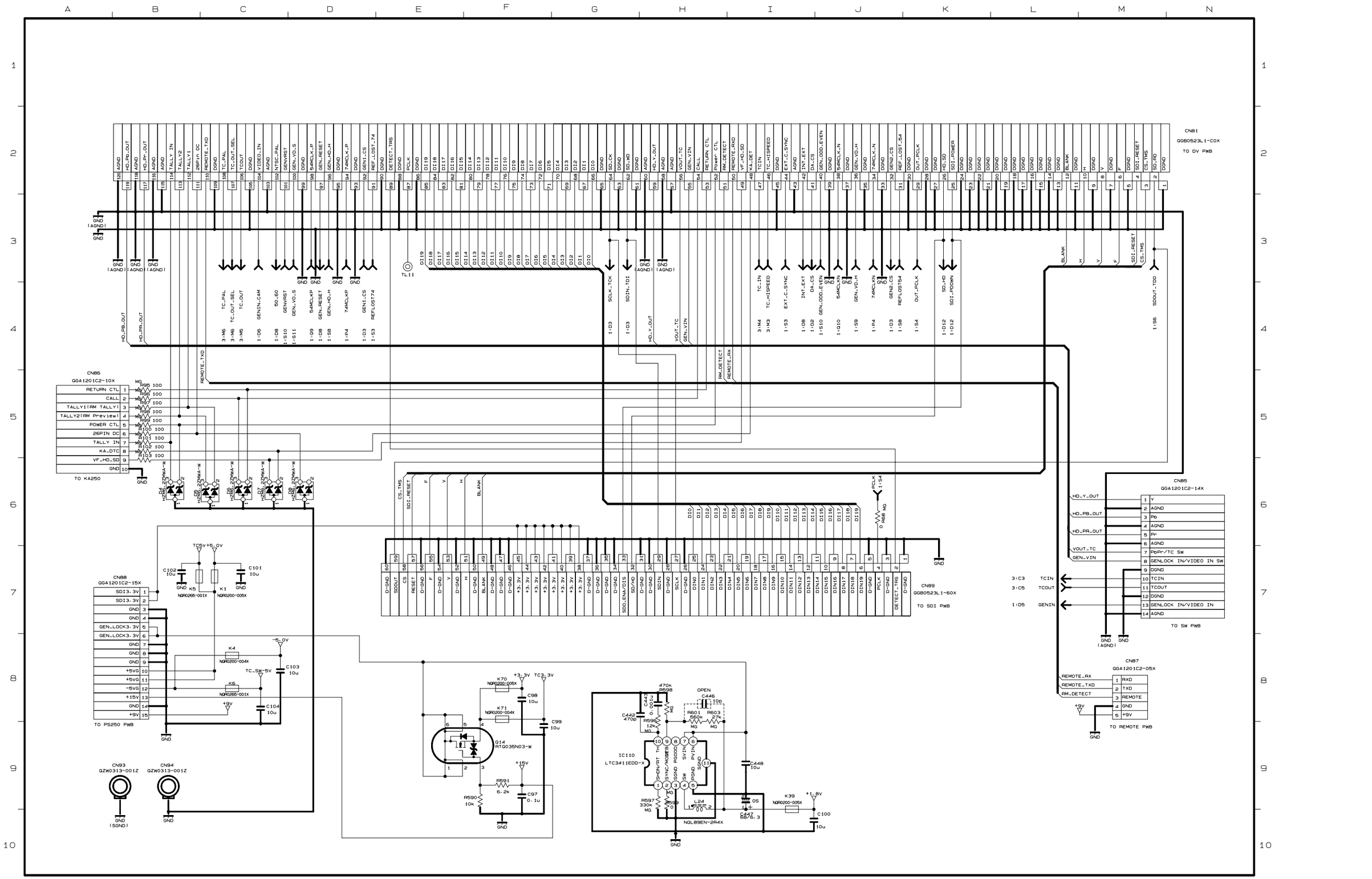
4.34 SDI SCHEMATIC DIAGRAM 81 (GY-HD250U/GY-HD251E)



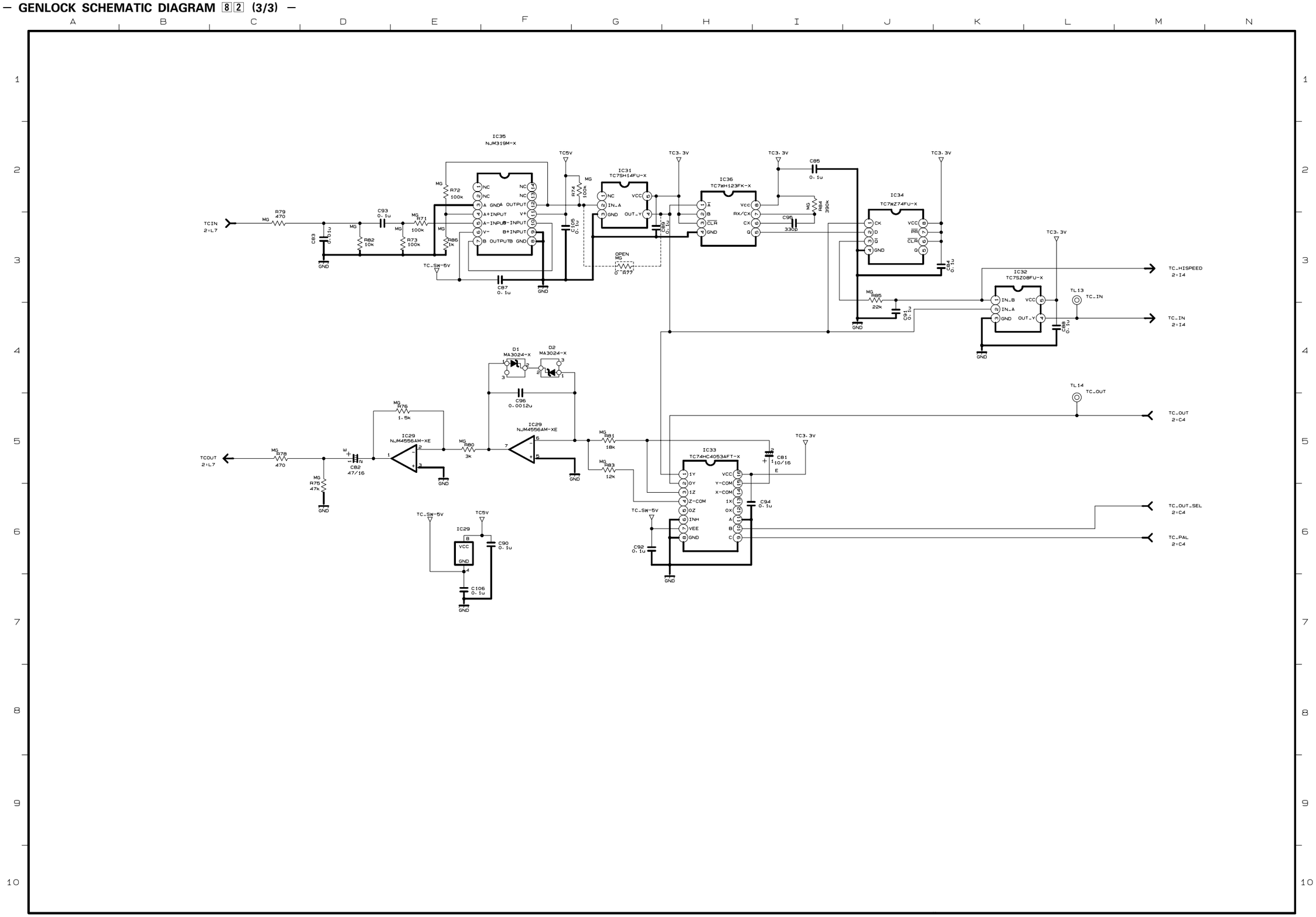
4.35 GENLOCK SCHEMATIC DIAGRAM 82 (1/3)



— GENLOCK SCHEMATIC DIAGRAM 82 (2/3) —



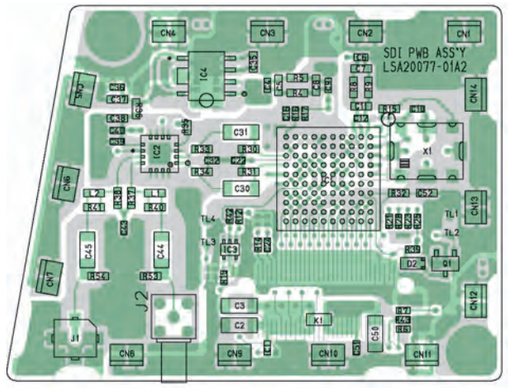
— GENLOCK SCHEMATIC DIAGRAM 82 (3/3) —



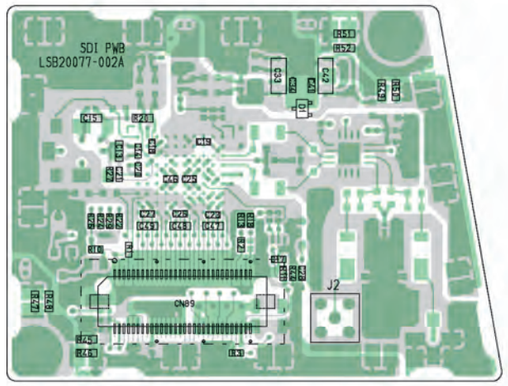
4.36 SDI & GENLOCK CIRCUIT BOARD

■SDI (GY-HD250U/GY-HD251E)

— SIDE A —

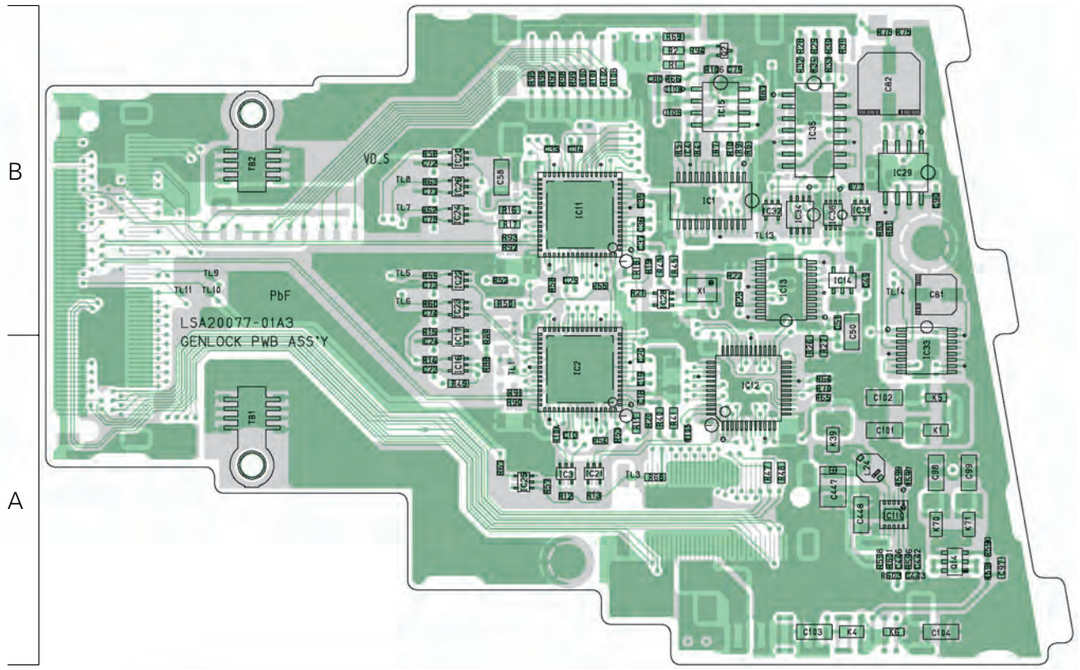


— SIDE B —

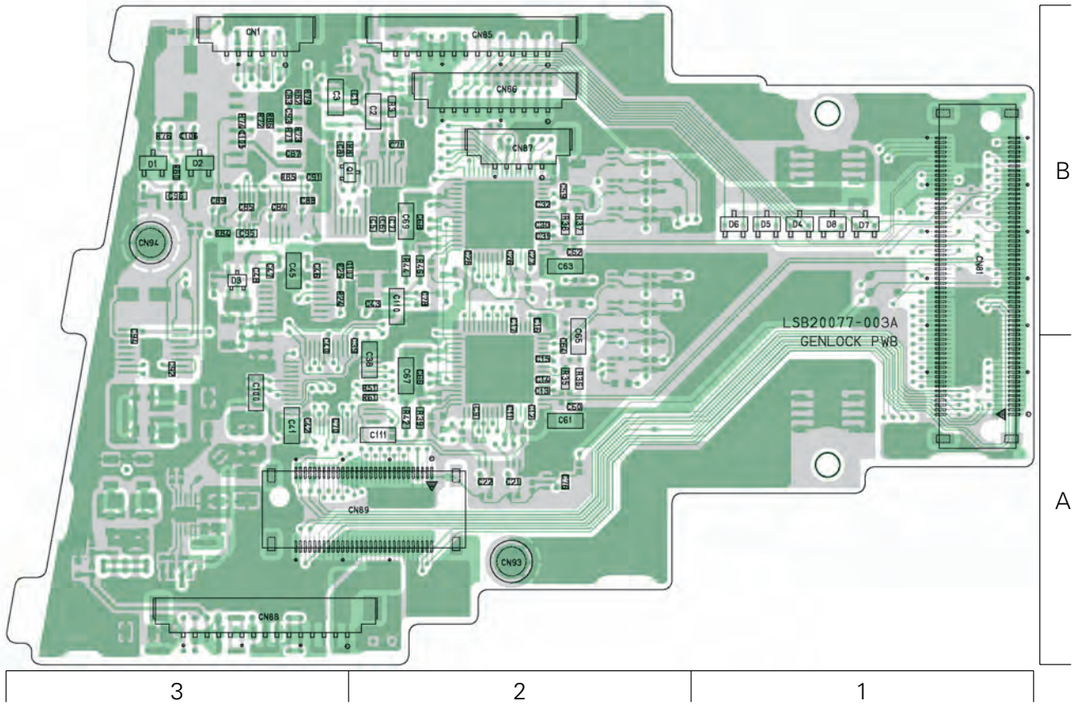


■GENLOCK

— SIDE A —



— SIDE B —



● **ADDRESS TABLE OF BOARD PARTS**

Each address may have an address error by one interval.

A-1C
Side — Y axis
X axis

IC1	A-2B	R27	A-3A	R93	A-2B	C46	B-3B	CN1	B-3B
IC2	A-2A	R28	A-3B	R94	A-2B	C47	B-3B	CN81	B-1B
IC3	A-2A	R29	A-3B	R95	A-2B	C48	B-3B	CN85	B-2B
IC11	A-2B	R30	A-3B	R96	A-2B	C49	A-3B	CN86	B-2B
IC12	A-3A	R31	A-3B	R97	A-2B	C50	A-3B	CN87	B-2B
IC13	A-3B	R32	A-3B	R98	A-2B	C51	A-3B	CN88	B-3A
IC14	A-3B	R33	A-3B	R99	A-2B	C58	A-2B	CN89	B-2A
IC15	A-2B	R34	A-3B	R100	A-2B	C59	B-2B	CN93	A-2A
IC16	A-2A	R35	B-2A	R101	A-2B	C60	B-2A	CN94	A-3B
IC17	A-2A	R36	B-2A	R102	A-2B	C61	B-2A		
IC20	A-2B	R37	B-2B	R103	A-2B	C62	B-2B	K1	A-3A
IC21	A-2A	R38	B-2B	R104	A-2A	C63	B-2B	K4	A-3A
IC22	A-2B	R39	B-2A	R105	A-2A	C64	B-2A	K5	A-3A
IC23	A-2B	R40	A-2A	R106	A-2B	C65	B-2A	K6	A-3A
IC24	A-2B	R41	A-2A	R590	A-3A	C66	B-2A	K39	A-3A
IC25	A-2A	R42	B-2A	R591	A-3A	C67	B-2A	K70	A-3A
IC26	A-2B	R43	A-2B	R596	A-3A	C68	B-2B	K71	A-3A
IC28	A-2B	R44	B-2B	R597	A-3A	C69	B-2B		
IC29	A-3B	R45	A-2B	R598	A-3A	C70	B-3A	TB1	A-1A
IC31	A-3B	R46	B-2B	R599	A-3A	C71	B-2B	TB2	A-1B
IC32	A-3B	R47	A-3A	R601	A-3A	C72	A-2B		
IC33	A-3A	R48	A-3A	R603	A-3A	C73	A-2B	TL1	A-2A
IC34	A-3B	R49	A-2A			C74	A-2B	TL3	A-2A
IC35	A-3B	R50	A-2B	C1	B-2B	C75	A-2B	TL5	A-2B
IC36	A-3B	R51	B-2A	C2	B-2B	C76	B-2A	TL6	A-2B
IC110	A-3A	R52	A-2B	C3	B-3B	C77	A-2B	TL7	A-2B
		R53	A-2A	C4	A-2B	C78	B-2B	TL8	A-2B
Q1	B-2B	R54	A-2A	C5	B-2B	C79	A-3B	TL9	A-1B
Q2	A-2B	R55	A-2B	C6	B-2B	C80	A-2B	TL10	A-1B
Q14	A-3A	R56	A-2B	C7	B-2B	C81	A-3B	TL11	A-1B
		R57	A-2A	C8	B-3B	C82	A-3B	TL13	A-3B
D1	B-3B	R58	A-2B	C9	B-2A	C83	B-3B	TL14	A-3B
D2	B-3B	R59	A-2B	C10	A-2A	C84	B-3B		
D3	B-3B	R60	A-2B	C11	B-2A	C85	B-3B	L24	A-3A
D4	B-1B	R61	B-2A	C12	B-2A	C87	B-3B		
D5	B-1B	R62	A-2B	C13	B-2A	C88	B-3B		
D6	B-1B	R63	A-2B	C14	B-2A	C89	B-3B		
D7	B-1B	R64	A-3A	C15	B-2A	C90	A-3B		
D8	B-1B	R65	A-3A	C16	B-2B	C91	B-3B		
		R66	A-2B	C17	B-2B	C92	B-3A		
R1	A-2B	R67	A-2A	C18	A-2A	C93	B-3B		
R2	A-2B	R68	A-2A	C19	A-2A	C94	B-3A		
R3	B-2B	R69	A-2B	C20	A-2A	C95	B-3B		
R4	A-2B	R70	A-3A	C21	B-2A	C96	B-3B		
R5	A-2B	R71	B-3B	C22	B-2A	C97	A-3A		
R6	A-3B	R72	B-3B	C23	A-2A	C98	A-3A		
R7	A-2B	R73	B-3B	C24	A-2A	C99	A-3A		
R8	B-2B	R74	B-3B	C26	B-2B	C100	B-3A		
R9	A-3B	R75	A-3B	C27	B-2B	C101	A-3A		
R10	A-2B	R76	B-3B	C28	B-2B	C102	A-3A		
R11	A-2A	R77	A-3B	C29	A-2B	C103	A-3A		
R12	A-2A	R78	A-3B	C30	B-2B	C104	A-3A		
R13	A-2A	R79	B-3B	C31	B-2B	C105	B-3B		
R14	A-2A	R80	B-3B	C32	B-2B	C106	B-3B		
R15	A-2B	R81	A-3B	C33	A-2B	C107	B-2B		
R16	A-2B	R82	B-3B	C34	A-2B	C108	A-2B		
R17	A-2B	R83	A-3B	C35	A-2B	C109	A-2B		
R18	A-2B	R84	B-3B	C36	A-2B	C110	B-2B		
R19	A-2B	R85	B-3B	C37	A-2B	C111	B-2A		
R20	A-2A	R86	B-3B	C38	B-2A	C442	A-3A		
R21	A-2B	R87	A-3B	C39	B-2A	C443	A-3A		
R22	A-3B	R88	A-2A	C40	B-3A	C446	A-3A		
R23	A-3B	R89	A-2A	C41	B-3A	C447	A-3A		
R24	B-3B	R90	A-2A	C42	B-3A	C448	A-3A		
R25	B-3B	R91	A-2A	C43	B-2B				
R26	A-3A	R92	A-2B	C45	B-3B	X1	A-2B		