

DSC-F828

SERVICE MANUAL

LEVEL 3

Ver 1.0 2003.12

Revision History

How to use
Acrobat Reader



US Model
Canadian Model
AEP Model
UK Model
E Model
Hong Kong Model
Australian Model
Korea Model
Tourist Model
Chinese Model
Japanese Model

Link

• SCHEMATIC DIAGRAMS

• PRINTED WIRING BOARDS

• REPAIR PARTS LIST

- For ADJUSTMENTS (SECTION 6), refer to SERVICE MANUAL, ADJ (987627951.pdf).
- For INSTRUCTION MANUAL, refer to SERVICE MANUAL, LEVEL 1 (987627941.pdf).
- Reference No. search on printed wiring boards is available.

The information that is not described in this Service Manual is described in the LEVEL 2 Service Manual.

When repairing, use this manual together with LEVEL 2 Service Manual.

Contents of LEVEL 2 Service Manual

1. SERVICE NOTE	
2. DISASSEMBLY	
3. BLOCK DIAGRAMS	OVERALL POWER
4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS	DD-204, LR-018, ST-088, LS-067, MT-067, SI-037, UA-003, LB-091, CF-097, SW-410, AJ-007 BOARD
	AS-050 BOARD, FP-756 FLEXIBLE, CONTROL SWITCH BLOCK (TOP)/(MID)/(UNDER) (SCHEMATIC DIAGRAM ONLY)
	FP-748 BOARD (PRINTED WIRING BOARD ONLY)
5. REPAIR PARTS LIST	EXPLODED VIEWS
	ELECTRICAL PARTS LIST

DIGITAL STILL CAMERA

SONY®

**CAUTION**

Use of controls or adjustments or performance procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION :

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

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK $\triangle$ OR DOTTED LINE WITH MARK $\triangle$ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE $\triangle$ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

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

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
4. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5. Check the B+ voltage to see it is at the values specified.
6. Flexible Circuit Board Repairing
 - Keep the temperature of the soldering iron around 270°C during repairing.
 - Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
 - Be careful not to apply force on the conductor when soldering or unsoldering.

Unleaded solder

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

**: LEAD FREE MARK**

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.
Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
Soldering irons using a temperature regulator should be set to about 350°C.
Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

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	• SY-096 (CAMERA DSP, CAMERA SYSTEM	
	CONTROL, CF DRIVE I/F, USB I/F, MODE	
	CONTROL, AUDIO AMP, LCD DRIVER, EVF, LCD	
	DRIVER, CONNECTOR, POWER SUPPLY)	
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5. REPAIR PARTS LIST

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4-2. SCHEMATIC DIAGRAMS

Link

• SY-096 BOARD (1/10) (CAMERA DSP)	• SY-096 BOARD (7/10) (LCD DRIVER)
• SY-096 BOARD (2/10) (CAMERA SYSTEM CONTROL)	• SY-096 BOARD (8/10) (EVF, LCD DRIVER)
• SY-096 BOARD (3/10) (CF DRIVE I/F)	• SY-096 BOARD (9/10) (CONNECTOR)
• SY-096 BOARD (4/10) (USB I/F)	• FP-749 FLEXIBLE BOARD
• SY-096 BOARD (5/10) (MODE CONTROL)	• SY-096 BOARD (10/10) (POWER SUPPLY)
• SY-096 BOARD (6/10) (AUDIO AMP)	

• COMMON NOTE FOR SCHEMATIC DIAGRAMS

4-2. SCHEMATIC DIAGRAMS

THIS NOTE IS COMMON FOR SCHEMATIC DIAGRAMS

(In addition to this, the necessary note is printed in each block)

(For schematic diagrams)

- All capacitors are in μF unless otherwise noted. pF : μF . 50 V or less are not indicated except for electrolytics and tantalums.
- Chip resistors are 1/10 W unless otherwise noted.
 $\text{k}\Omega=1000\ \Omega$, $\text{M}\Omega=1000\ \text{k}\Omega$.
- Caution when replacing chip parts.
New parts must be attached after removal of chip.
Be careful not to heat the minus side of tantalum capacitor, Because it is damaged by the heat.
- Some chip part will be indicated as follows.

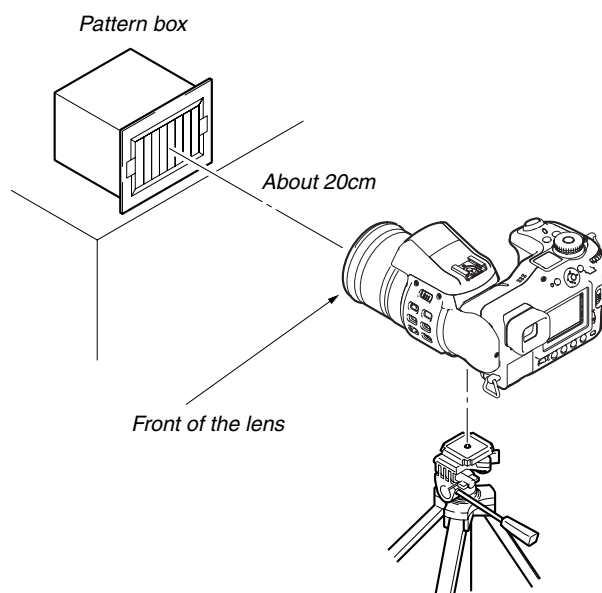
Example	C541	L452
	22U	10UH
	TA A	2520
Kinds of capacitor		
Temperature characteristics		
External dimensions (mm)		

- Constants of resistors, capacitors, ICs and etc with XX indicate that they are not used.
In such cases, the unused circuits may be indicated.
- Parts with * differ according to the model/destination.
Refer to the mount table for each function.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Signal name
XEDIT $\rightarrow$ EDIT PB/XREC $\rightarrow$ PB/REC
- : non flammable resistor
- : fusible resistor
- : panel designation
- : B+ Line
- : B- Line
- : IN/OUT direction of (+,-) B LINE.
- : adjustment for repair.
- : VIDEO SIGNAL (ANALOG)
- : AUDIO SIGNAL (ANALOG)
- : VIDEO/AUDIO SIGNAL (ANALOG)
- : VIDEO/AUDIO/SERVO SIGNAL (ANALOG)
- : SERVO SIGNAL
- Circled numbers refer to waveforms.

(Measuring conditions voltage and waveform)

- Voltages and waveforms are measured between the measurement points and ground when camera shoots color bar chart of pattern box. They are reference values and reference waveforms.
(VOM of DC 10 $\text{M}\Omega$ input impedance is used)
- Voltage values change depending upon input impedance of VOM used.)

1. Connection



2. Adjust the distance so that the output waveform of Fig. a and the Fig. b can be obtain.

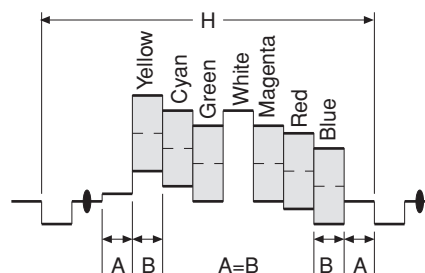


Fig. a (Video output terminal output waveform)

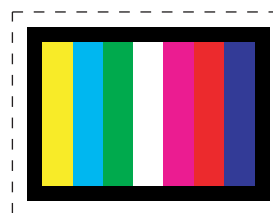


Fig.b (Picture on monitor TV)

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

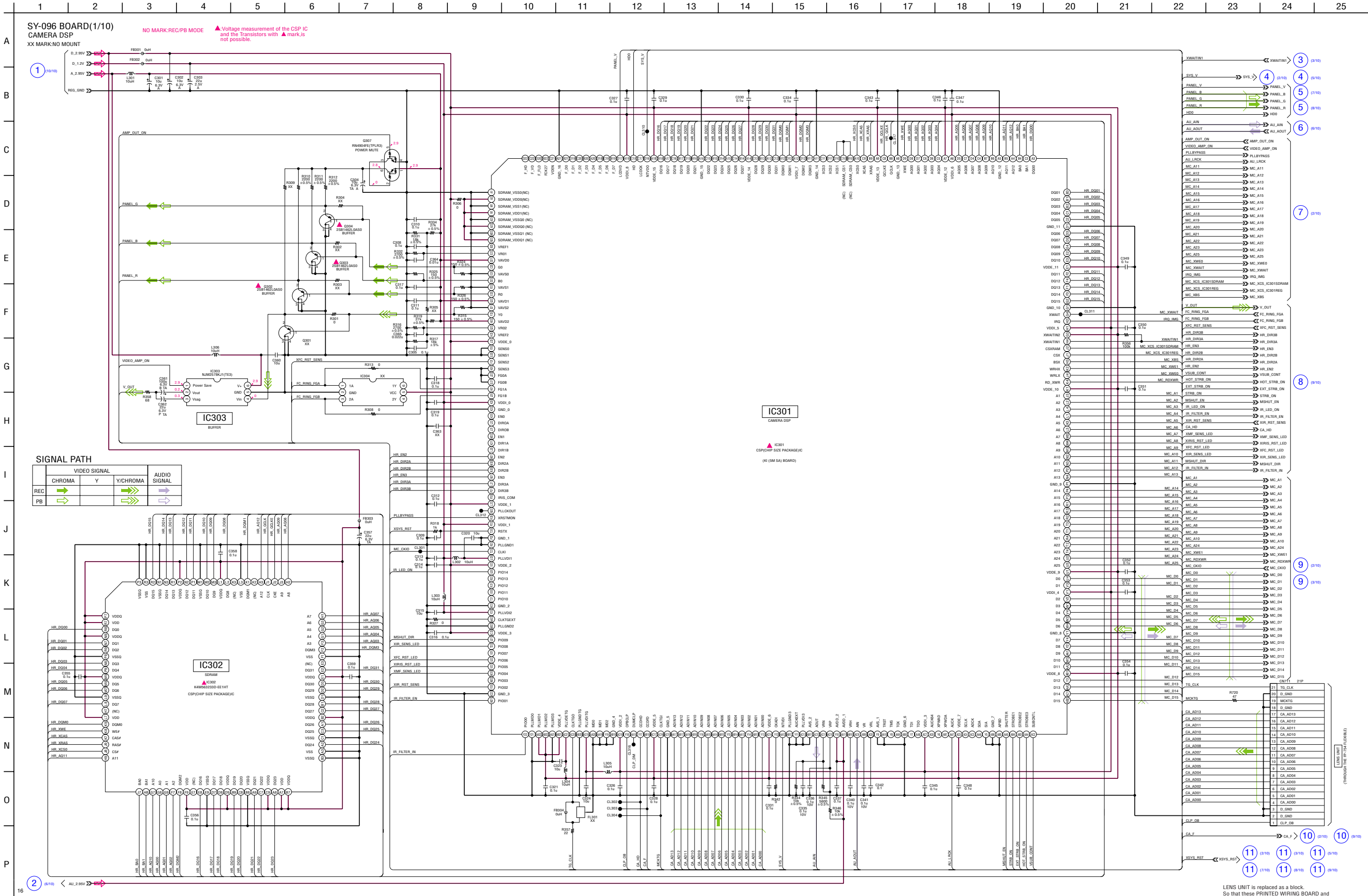
Note :

The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

Note :

Les composants identifiés par une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

For Schematic Diagram
• Refer to page 4-59 for printed wiring board.



LENS UNIT IS REPLACED AS A BLOCK.
SO THAT THESE PRINTED WIRING BOARD AND SCHEMATIC DIAGRAM ARE OMITTED.

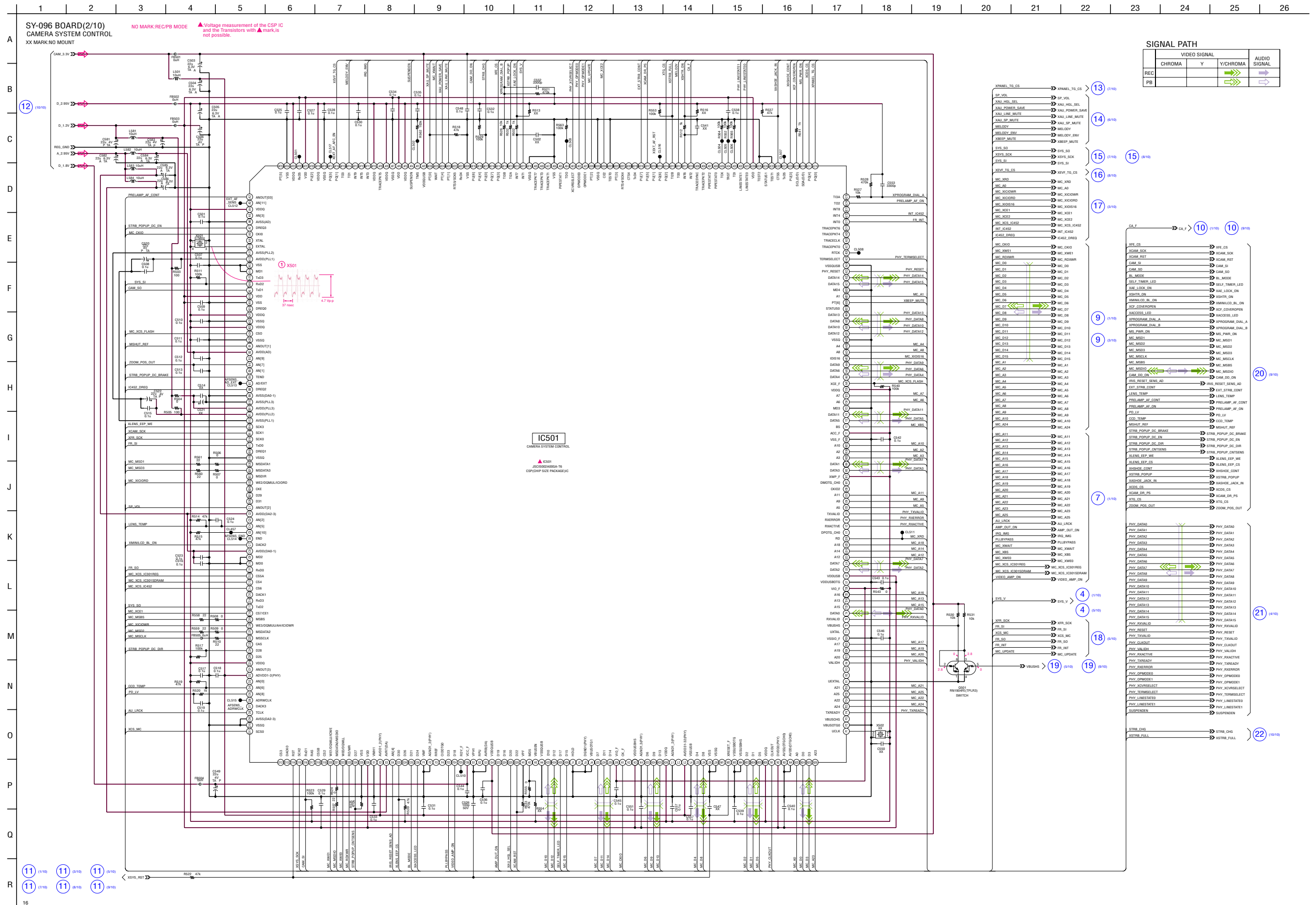
4-2. SCHEMATIC DIAGRAMS

SY-096 BOARD SIDE A

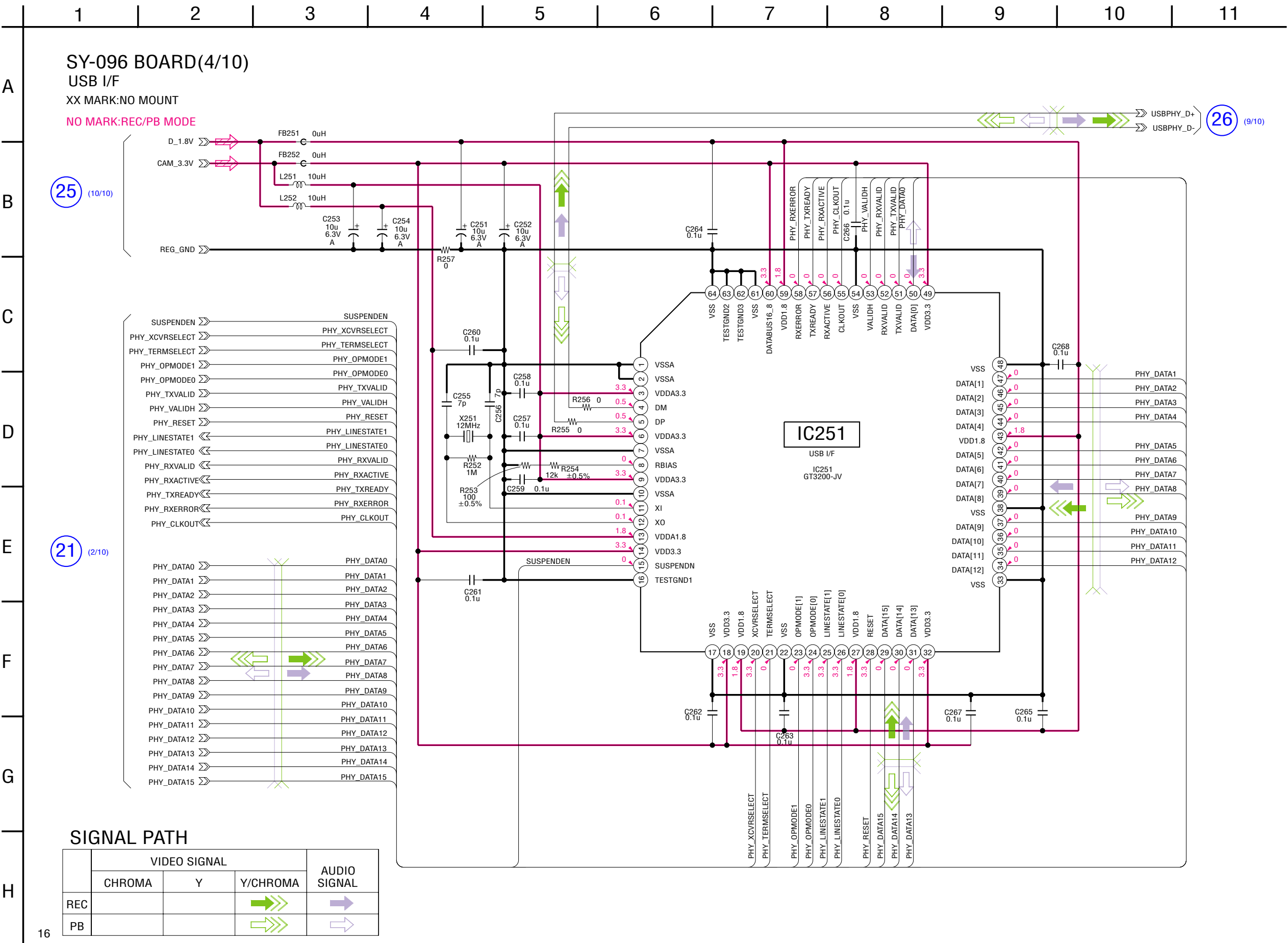
SY-096 BOARD SIDE B

For Schematic Diagram

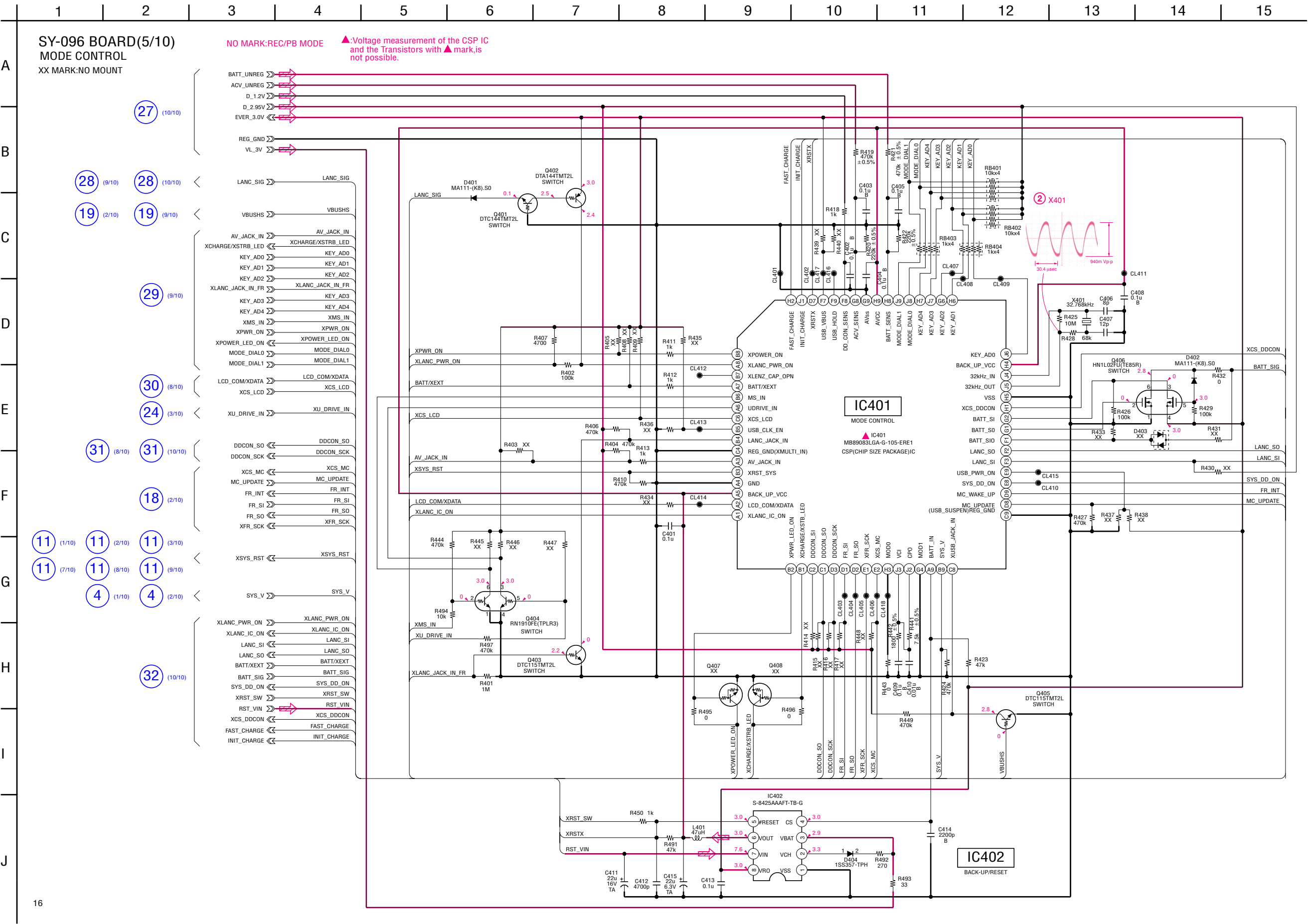
• Refer to page 4-59 for printed wiring board.



For Schematic Diagram
• Refer to page 4-59 for printed wiring board.



For Schematic Diagram
• Refer to page 4-59 for printed wiring board.



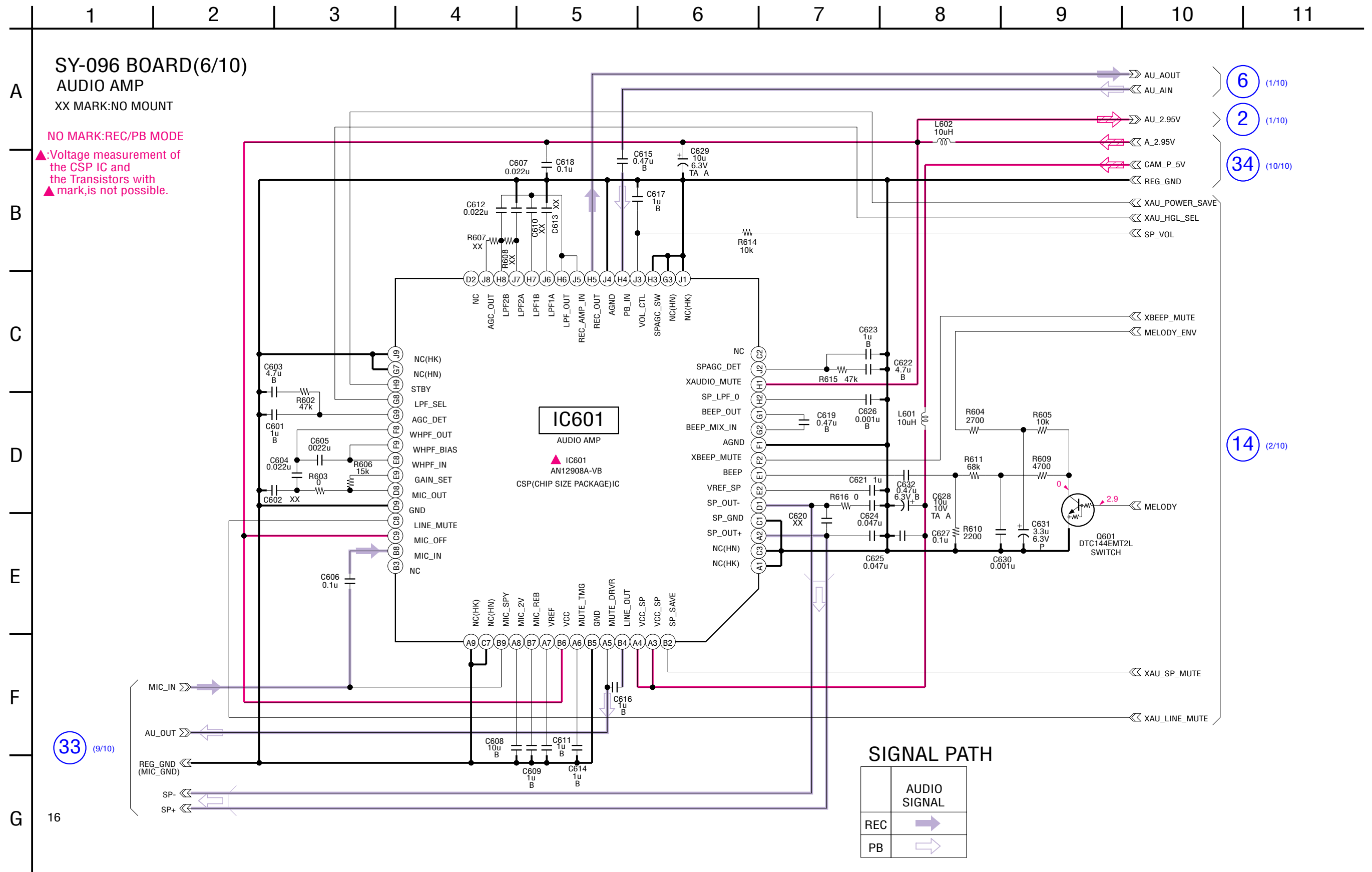
4-2. SCHEMATIC DIAGRAMS

SY-096 BOARD SIDE A

SY-096 BOARD SIDE B

For Schematic Diagram

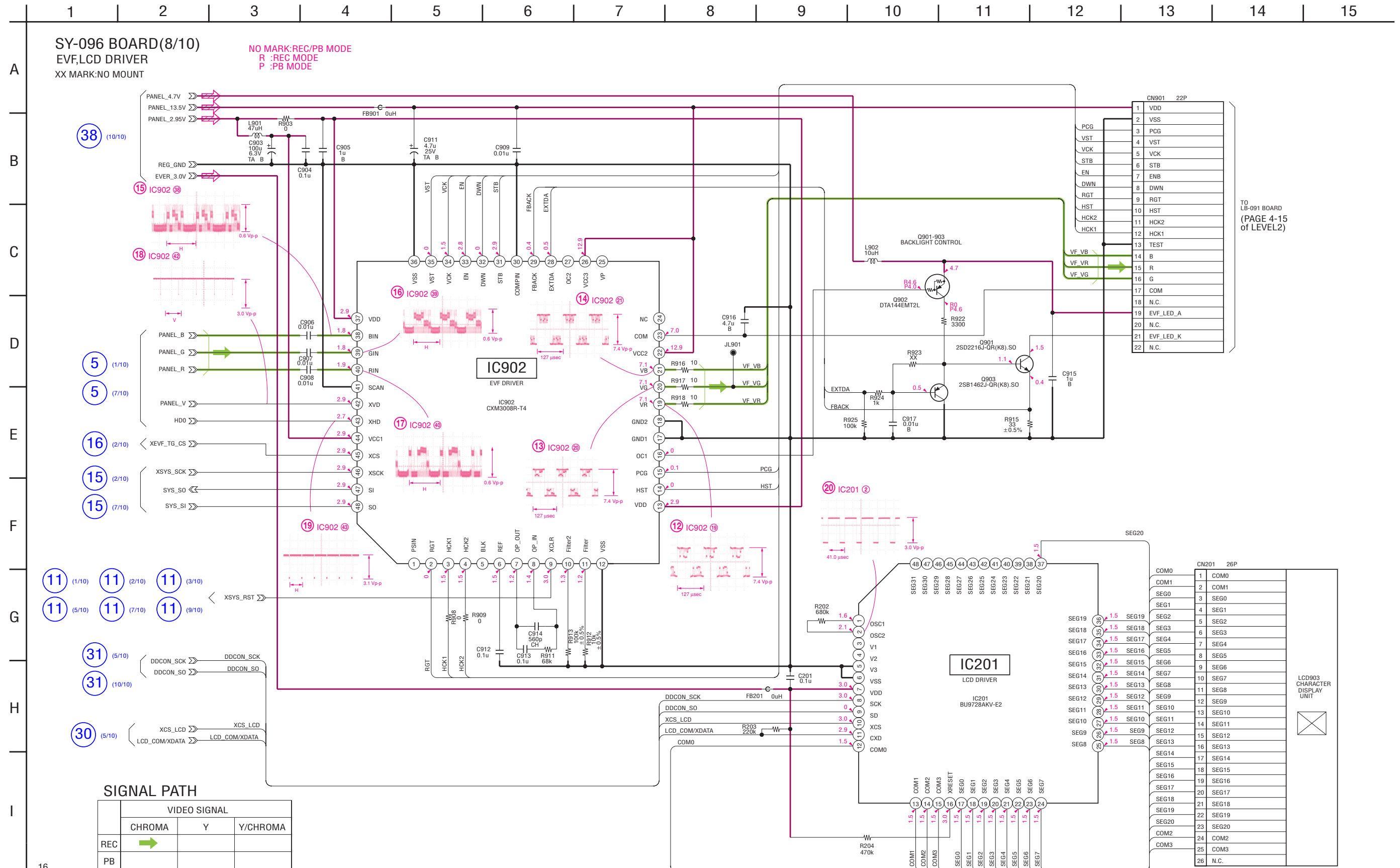
• Refer to page 4-59 for printed wiring board.



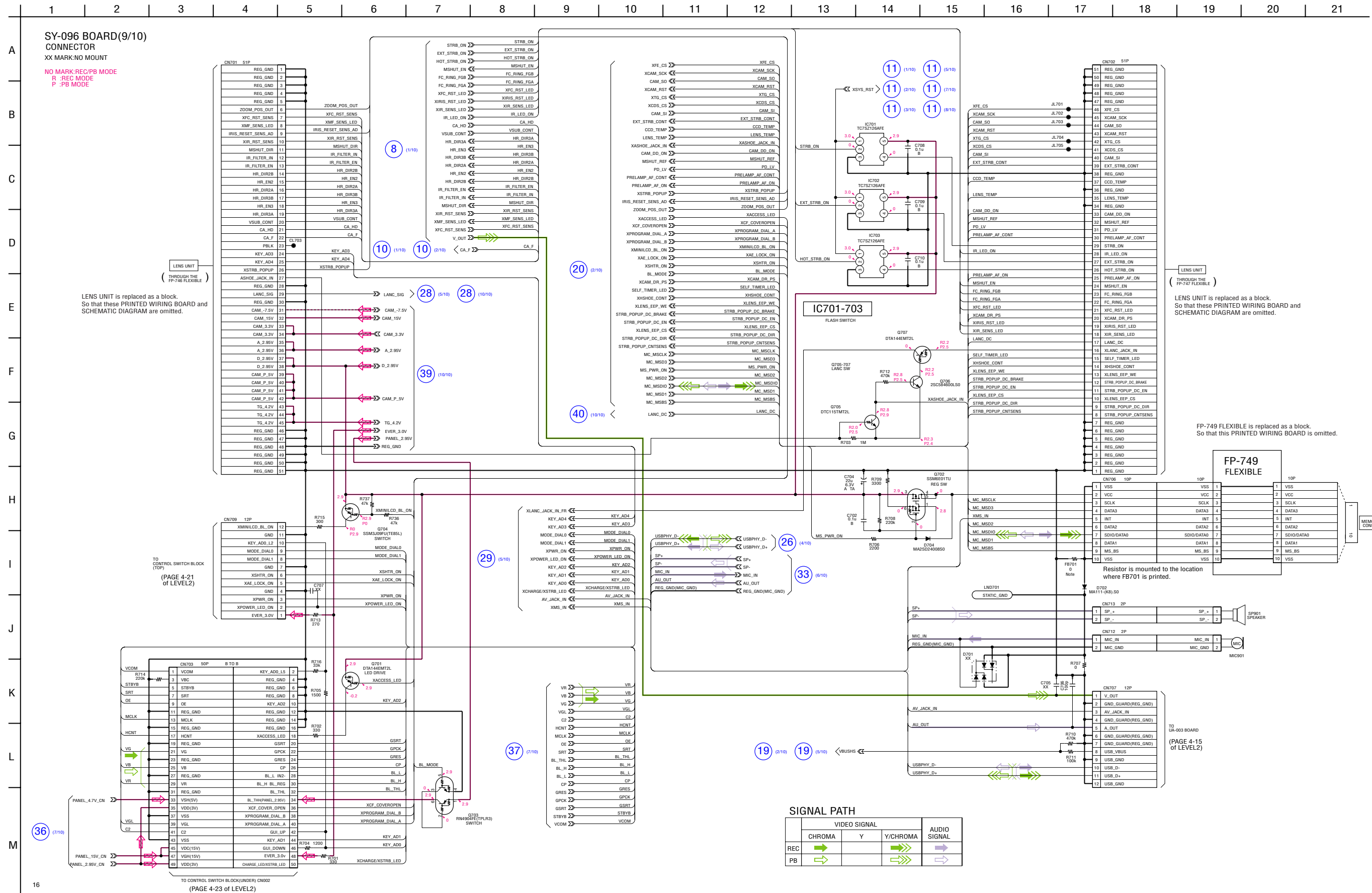
A
XX MARK:NO MOUNT
NO MARK:REC/PB MODE



- Refer to page 4-59 for printed wiring board.



- Refer to page 4-59 for printed wiring board.



SY-096 BOARD SIDE B

SY-096 BOARD(10/10)
POWER SUPPLY
XX MARK:NO MOUNT
NO MARK:REC/PB MODE

CN751 60P

2	REG_GND	XLANC_PWR_ON	1
4	REG_GND	XLANC_IC_ON	3
6	REG_GND	LANC_DC	5
8	REG_GND	LANC_SIG	7
10	REG_GND	LANC_SO	9
12	REG_GND	LANC_SI	11
14	REG_GND	XSTRB_FULL	13
16	REG_GND	STRB_CHG	15
18	REG_GND	DDCON_SCK	17
20	REG_GND	DDCON_SO	19
22	REG_GND	XCS_DDCON	21
24	REG_GND	SYS_DD_ON	23
26	REG_GND	BATT_SIG	25
28	REG_GND	BATT/XEXT	27
30	REG_GND	FAST_CHARGE	29
32	REG_GND	INIT_CHARGE	31
34	REG_GND	XRST_SW	33
36	DD_P_5V	VL_3V	35
38	DD_P_5V	RST_VIN	37
40	DD_P_5V	EVER_3.0V	39
42	DD_P_5V	BL_UNREG	41
44	DD_P_5V	ACV_UNREG	43
46	DD_2.95V	BATT_UNREG	45
48	DD_2.95V	DD_15.5V	47
50	DD_2.95V	DD_1.8V	49
52	DD_2.95V	DD_-7.5V	51
54	MD_3.3V	DD_4.7V	53
56	MD_3.3V	DD_4.2V	55
58	MD_3.3V	DD_4.2V	57
60	MD_3.3V	DD_4.2V	59

TO DD-204 BOARD CN801
(THROUGH THE EP-748 BOARD)
(PAGE 4-12 of LEVEL2)

IC753
15V REG
XC6202S06XMR

IC751
1.2V REG
NJM2130F(Te2)

IC752
3.3V REG
R1114NS31D-TR-FA

Q752
2SC65812L
13.5V REG

Q751
MCH3317-TL-E
1.2V REG

Q753
R1114NS31D-TR-FA

Q754
R1114NS31D-TR-FA

Q755
R1114NS31D-TR-FA

Q756
R1114NS31D-TR-FA

Q757
R1114NS31D-TR-FA

Q758
R1114NS31D-TR-FA

Q759
R1114NS31D-TR-FA

Q760
R1114NS31D-TR-FA

Q761
R1114NS31D-TR-FA

Q762
R1114NS31D-TR-FA

Q763
R1114NS31D-TR-FA

Q764
R1114NS31D-TR-FA

Q765
R1114NS31D-TR-FA

Q766
R1114NS31D-TR-FA

Q767
R1114NS31D-TR-FA

Q768
R1114NS31D-TR-FA

Q769
R1114NS31D-TR-FA

Q770
R1114NS31D-TR-FA

Q771
R1114NS31D-TR-FA

Q772
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Q773
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Q784
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Q785
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Q786
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Q787
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Q789
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Q849
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Q850
R1114NS31D-TR-FA

Q851
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Q862
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Q863
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Q864
R1114NS31D-TR-FA

Q865
R1114NS31D-TR-FA

Q866
R1114NS31D-TR-FA

Q867
R1114NS31D-TR-FA

Q868

4-3. PRINTED WIRING BOARDS

Link

[• SY-096 BOARD \(SIDE A\)](#)

[• SY-096 BOARD \(SIDE B\)](#)

[• COMMON NOTE FOR SCHEMATIC DIAGRAMS](#)

[• MOUNTED PARTS LOCATION](#)

Board Name	Function
SY-096	CAMERA DSP, CAMERA SYSTEM CONTROL, CF DRIVE I/F, USB I/F, MODE CONTROL, AUDIO AMP, LCD DRIVER, EVF, LCD DRIVER, CONNECTOR, POWER SUPPLY

4-3. PRINTED WIRING BOARDS

THIS NOTE IS COMMON FOR WIRING BOARDS

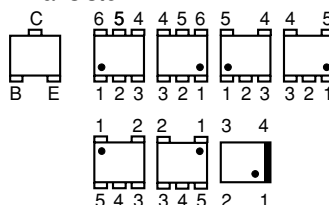
(In addition to this, the necessary note is printed in each block)

(For printed wiring boards)

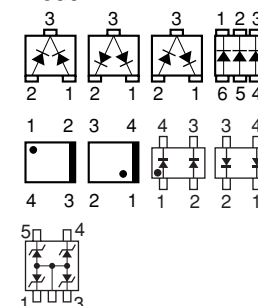
-  : Uses unleaded solder.
-  : Pattern from the side which enables seeing.
(The other layers' patterns are not indicated)
- Through hole is omitted.
- Circled numbers refer to waveforms.
- There are a few cases that the part printed on diagram isn't mounted in this model.
-  : panel designation

• Chip parts.

Transistor



Diode



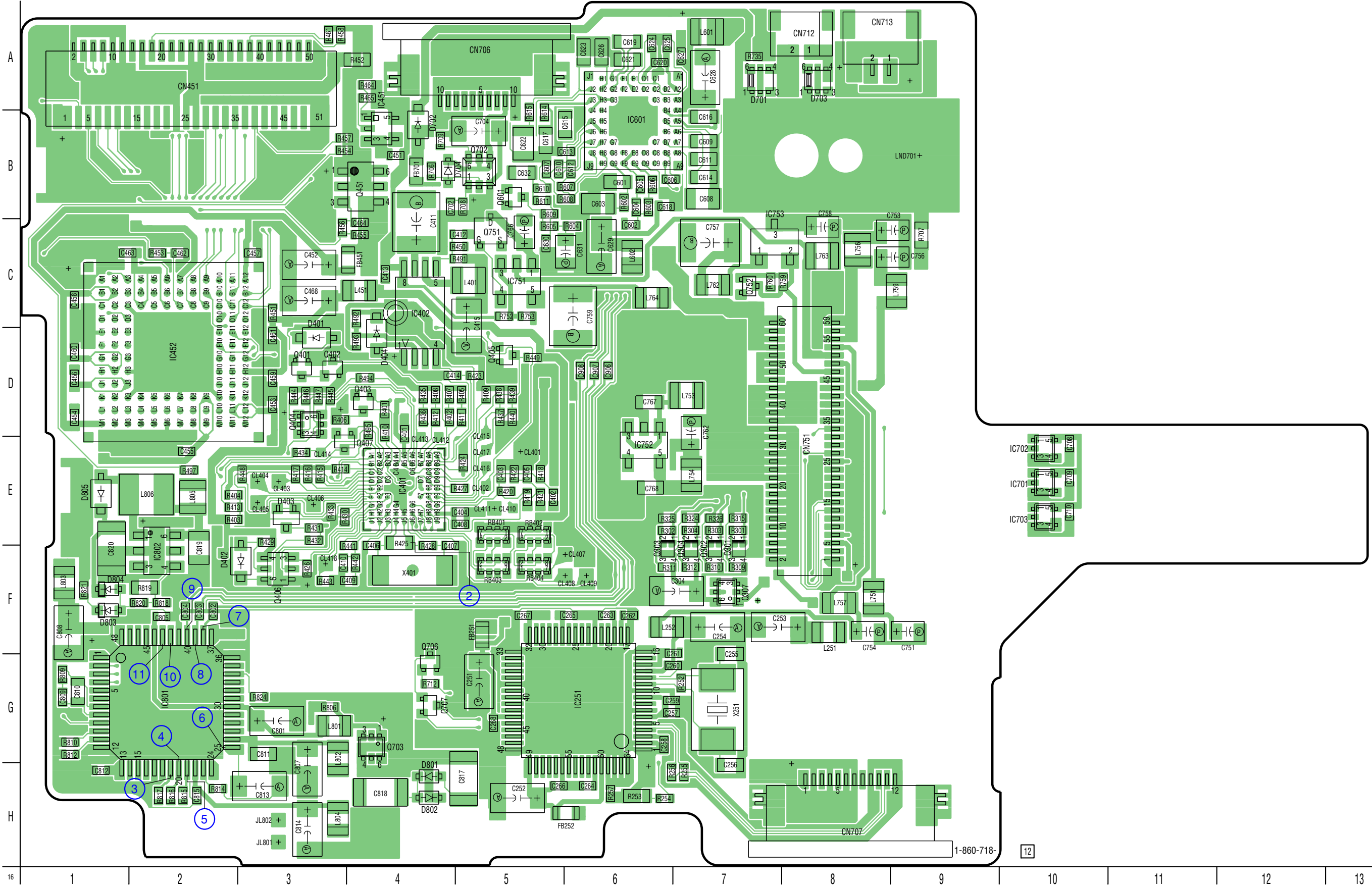
BOARD INFORMATION

board name	parts location (shown on page)	pattern		CSP IC
		number of layers	layers not shown	
DD-204	4-63	6	2 to 5	—
LR-018	—	1	—	—
ST-088	4-63	6	2 to 5	—
MT-067	—	1	—	—
LS-067	—	1	—	—
SI-037	—	1	—	—
LB-091	—	1	—	—
UA-003	4-63	1	—	—
CF-097	4-63	2	—	—
AJ-007	4-63	2	—	—
SW-410	4-63	2	—	—
FP-748	—	1	—	—
SY-096	4-65	8	2 to 7	IC301, 302, 401, 452, 501, 601

• Refer to page 4-47 for common note for printed wiring board.

•  : Uses unleaded solder.

SY-096 BOARD(SIDE A)



4-2. SCHEMATIC DIAGRAMS

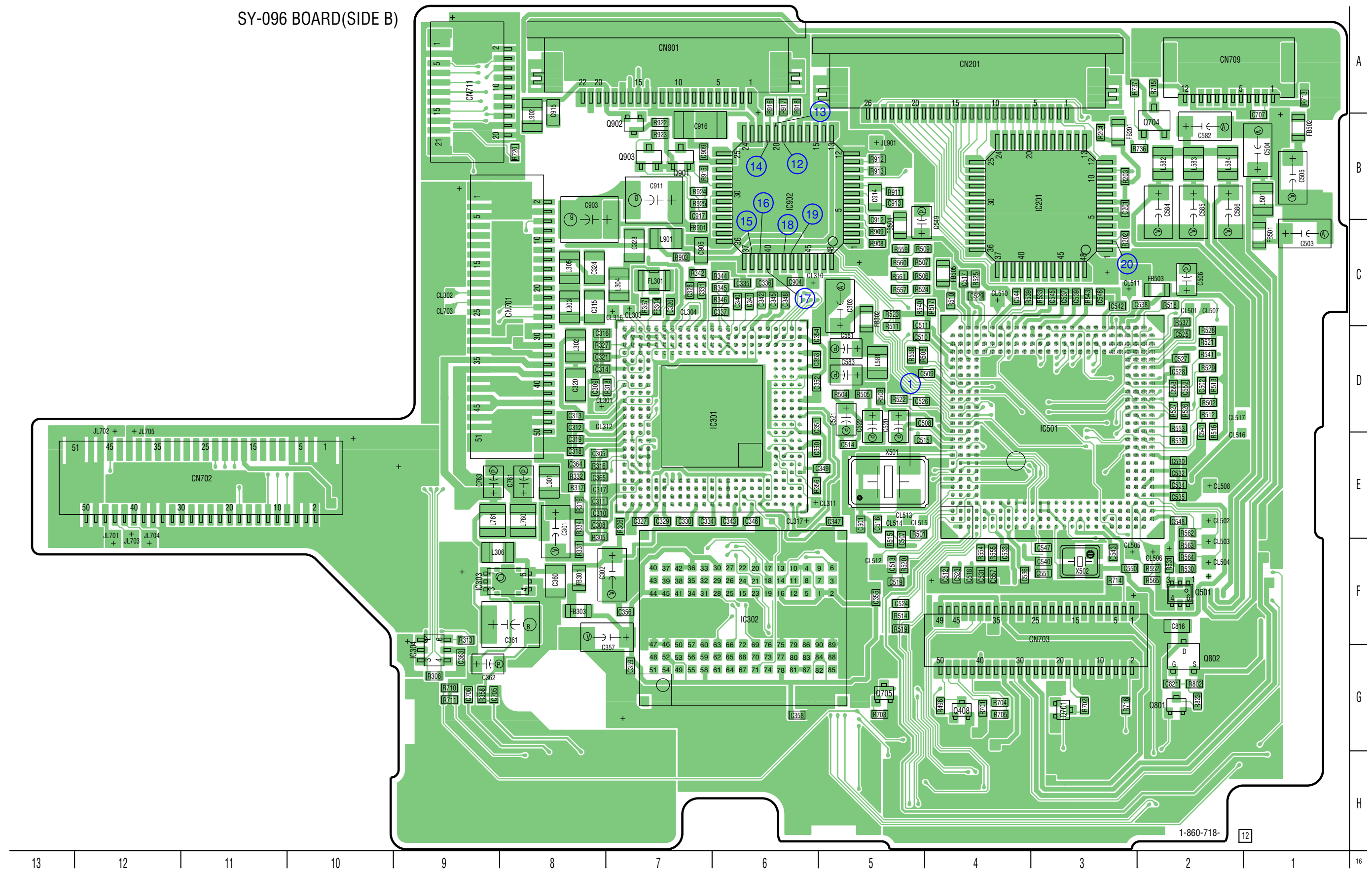
4-3. PRINTED WIRING BOARDS

MOUNTED PARTS LOCATION

- Refer to page 4-47 for common note for printed wiring board.

-  : Uses unleaded solder.

SY-096 BOARD(SIDE B)



4-4. MOUNTED PARTS LOCATION

no mark : side A
* mark : side B

SY-096 BOARD

* C201	B-3	C410	F-3	C604	B-6	* CN201	A-4	* L583	B-2	* R327	D-8	* R506	C-5	R809	G-1
C251	G-5	C411	C-4	C605	B-6	CN451	A-2	* L584	B-2	* R331	F-8	* R507	C-5	R810	G-1
C252	H-5	C412	C-5	C606	B-6	* CN701	C-8	L601	A-7	* R332	E-8	* R508	D-5	R812	G-1
C253	F-7	C413	C-4	C607	B-5	* CN702	E-9	L602	C-6	* R334	E-8	* R509	C-5	R814	H-2
C254	F-7	C414	D-4	C608	B-7	* CN703	F-3	L751	F-8	* R342	C-7	* R510	C-4	R815	H-2
C255	F-7	C415	C-5	C609	B-7	CN706	A-5	L753	D-7	* R344	C-6	* R511	C-5	R816	H-2
C256	G-7	C451	B-4	C610	B-5	CN707	H-8	L754	E-7	* R345	C-6	* R512	D-2	R817	H-2
C257	G-6	C452	C-3	C611	B-7	* CN709	A-2	L756	C-8	* R346	C-6	* R513	D-2	R818	F-2
C258	G-6	C453	D-3	C612	B-6	* CN711	A-9	L757	F-8	* R356	E-6	* R514	F-5	R819	F-2
C259	G-6	C454	D-1	C613	B-5	CN712	A-8	L759	C-9	* R357	C-7	* R515	E-5	R820	F-2
C260	G-6	C455	E-2	C614	B-7	CN713	A-8	* L760	E-8	* R358	G-9	* R516	D-2	R821	F-1
C261	F-6	C456	D-1	C615	B-5	CN751	E-8	* L761	E-9	R401	D-4	* R517	C-4	* R823	G-2
C262	F-6	C457	C-3	C616	B-7	* CN901	A-7	L762	C-7	R402	D-4	* R518	C-2	R824	G-3
C263	F-6	C458	C-1	C617	B-5			L763	C-8	R403	E-2	* R519	F-5	* R903	C-7
C264	H-6	C459	D-3	C618	B-6	D401	D-3	L764	C-6	R404	E-2	* R520	F-5	* R908	C-5
C265	F-6	C460	D-1	C619	A-6	D402	F-2	L801	G-3	R405	D-5	* R521	D-2	* R909	C-5
C266	H-5	C461	D-3	C620	A-6	D403	E-3	L802	G-3	R406	D-3	* R522	D-5	* R911	B-5
C267	F-5	C462	C-2	C621	A-6	D404	D-4	L803	F-1	R407	D-4	* R523	C-5	* R912	B-5
C268	G-5	C463	C-1	C622	B-5	D701	A-7	L804	H-3	R408	D-4	* R524	C-5	* R913	B-5
* C301	E-8	C464	C-4	C623	A-6	D702	B-4	L805	E-2	R409	D-5	* R525	C-4	* R915	B-7
* C302	F-7	C468	C-3	C624	A-6	D703	A-8	L806	E-2	R410	D-4	* R526	D-2	* R916	A-6
* C303	C-5	* C501	E-5	C625	A-6	D704	B-4	* L901	C-7	R411	D-5	* R527	D-2	* R917	A-6
C304	F-6	* C502	D-2	C626	A-6	D801	H-4	* L902	A-8	R412	D-4	* R528	D-2	* R918	A-6
* C305	E-8	* C503	C-1	C627	A-7	D802	H-4			R413	E-2	* R529	D-2	* R922	B-7
* C308	E-8	* C504	B-1	C628	A-7	D803	F-1	Q301	F-7	R414	E-3	* R530	F-2	* R923	B-7
* C309	D-8	* C505	B-1	C629	C-6	D804	F-1	Q302	F-7	R415	E-3	* R531	F-2	* R924	B-7
* C310	E-8	* C506	C-2	C630	C-5	D805	E-1	Q303	F-6	R416	E-3	* R532	E-2	* R925	B-7
* C311	E-8	* C507	E-5	C631	C-5			Q304	F-7	R417	E-3	* R533	C-3		
* C312	D-8	* C508	D-4	C632	B-5	E-10	E-8	Q307	F-7	R418	E-5	* R537	C-2	RB401	E-5
* C313	D-8	* C509	D-4	C702	B-4	* E-11	E-9	Q401	D-3	R419	E-5	* R539	C-4	RB402	E-5
* C314	D-8	* C510	D-5	C704	B-5			Q402	D-3	R420	E-5	* R540	C-5	RB403	F-5
* C315	C-8	* C511	C-5	* C705	G-9	* FB201	B-3	Q403	D-4	R421	E-5	* R541	D-2	RB404	F-5
* C316	D-8	* C512	F-4	* C706	G-9	FB251	F-5	Q404	D-3	R422	E-5	* R543	C-3		
* C317	E-8	* C513	F-5	* C707	B-1	FB252	H-5	Q405	D-5	R423	D-5	* R552	F-2	X251	G-7
* C318	E-8	* C514	E-5	C708	E-8	* FB301	F-8	Q406	F-3	R424	E-5	* R553	D-2	X401	F-4
* C319	E-8	* C515	E-5	C709	E-8	* FB302	C-5	Q407	E-4	R425	E-4	* R554	F-4	* X501	E-5
* C320	D-8	* C516	E-5	C710	E-8	* FB303	F-8	* Q408	G-4	R426	F-3	* R555	F-4	* X502	F-3
* C321	D-8	* C517	C-4	C751	F-9	* FB304	C-7	Q451	B-4	R427	E-5	* R557	C-5		
* C323	C-7	* C518	F-4	C753	C-9	FB451	C-3	* Q501	F-2	R428	E-4	* R558	D-5		
* C324	C-8	* C519	F-5	C754	F-8	* FB501	C-1	Q601	B-5	R429	E-3	* R559	C-5		
* C326	C-7	* C520	D-5	C756	C-9	* FB502	B-1	* Q701	G-3	R430	E-3	* R560	C-5		
* C327	E-7	* C521	D-5	C757	C-7	* FB503	C-2	Q702	B-5	R431	E-3	* R561	C-5		
* C328	C-7	* C522	D-5	C758	C-8	* FB504	C-5	Q703	G-4	R432	E-3	* R562	E-2		
* C329	E-7	* C523	F-4	C759	C-6	* FB505	C-4	* Q704	B-2	R433	E-3	* R563	F-2		
* C330	E-7	* C524	F-5	* C761	E-8	FB701	B-4	* Q705	G-5	R434	E-3	* R564	F-2		
* C331	C-7	* C525	D-2	C762	D-7	* FB901	C-7	Q706	G-4	R435	D-4	* R565	F-2		
* C334	E-7	* C526	D-5	* C763	E-9			Q707	G-4	R436	D-4	R602	B-6		
* C335	C-6	* C527	D-2	C766	C-5	* FL301	C-7	Q751	C-5	R437	D-5	R603	B-6		
* C336	C-6	* C528	D-2	C767	D-6			Q752	C-7	R438	D-5	R604	C-6		
* C337	C-6	* C529	C-4	C768	E-6	* IC201	B-3	* Q801	G-2	R439	D-5	R605	C-5		
* C340	C-6	* C530	G-3	C801	G-3	IC251	G-6	* Q802	G-2	R440	D-5	R606	B-6		
* C341	C-6	* C531	F-4	C802	F-2	* IC301	D-6	* Q901	B-7	R441	E-4	R607	B-5		
* C342	C-6	* C532	E-2	C803	F-2	* IC302	F-6	* Q902	B-7	R442	F-4	R608	B-5		
* C343	E-6	* C533	F-4	C804	F-2	* IC303	F-8	* Q903	B-7	R443	F-3	R609	B-5		
* C345	C-6	* C534	E-2	C805	F-2	* IC304	G-9			R444	D-3	R610	B-5		
* C346	E-6	* C535	E-2	C807	H-3	IC401	E-4	* R202	C-3	R445	D-3	R611	B-5		
* C347	E-5	* C536	F-4	C808	F-1	IC402	C-4	* R203	B-3	R446	D-3	R614	A-5		
* C348	C-6	* C537	C-3	C809	G-1	IC451	B-4	* R204	B-3	R447	D-3	R615	A-5		
* C349	E-5	* C538	C-2	C810	G-1	IC452	D-2	R252	G-7	R448	E-3	* R701	G-4		
* C350	E-6	* C539	C-3	C811	G-3	* IC501	D-3	R253	H-6	R449	D-5	* R702	G-3		
* C351	D-6	* C540	F-3	C812	H-1	IC601	B-6	R254	H-6	R450	C-5	* R703	G-5		
* C352	D-6	* C541	D-2	C813	H-3	IC701	E-8	R255	H-7	R451	C-3	* R704	G-4		
* C353	D-6	* C542	C-3	C814	H-3	IC702	E-8	R256	H-6	R452	A-4	* R705	G-4		
* C354	D-6	* C543	F-3	C815	H-2	IC703	E-8	R257	H-6	R453	C-2	R706	B-4		
* C355	F-5	* C544	C-4	* C816	F-2	IC751	C-5	R301	E-7	R454	B-3	R707	C-9		
* C356	F-7	* C545	C-3	C817	H-5	IC752	E-6	R302	E-6	R455	C-4	R708	B-5		
* C357	F-7	* C546	C-3	C818	H-4	IC753	C-7	R303	E-7	R456	C-3	R709	B-4		
* C358	G-6	* C547	F-3	C819	F-2	IC801	G-2	R304	E-7	R457	B-3	* R710	G-9		
* C359	G-7	* C548	E-2	C820	F-1	IC802	F-2	* R305	E-8	R458	A-3	* R711	G-9		
* C360	F-8	* C549	C-5	* C821	G-2	* IC902	B-6	* R306	E-7	R461	A-3	R712	G-4		
* C361	F-8	* C550	F-3	* C903	B-8			* R308	G-9	R464	A-4	* R713	A-1		
* C362	G-9	* C551	F-3	* C904	C-6	L251	F-8	R309	F-7	R465	A-4	* R714	F-3		
* C363	G-9	* C552	D-2	* C905	C-7	L252	F-6	R310	F-7	R491	C-5	* R715	A-2		
* C364	E-8	* C553	D-2	C906	D-6	* L301	E-8	R311	F-6	R492	C-4	* R716	G-3		
* C365	E-8	* C557	F-4	C907	D-6	* L302	D-8	R312	F-7	R493	D-4	* R720	B-8		
C401	D-4	* C581	D-5	C908	D-6	* L303	C-8	* R313	F-9	R494	D-4	R735	A-7		
C402	E-5	* C582	B-2	* C909	B-7	* L304	C-7	R315	E-7	R495	D-4	* R736	B-2		
C403	E-5	* C583	D-5	* C911	B-7	* L305	C-8	* R316	E-8	* R496	G-4	* R737	A-3		
C404	E-5	* C584	B-2	* C912	B-5	* L306	F-8	* R317	E-8	R497	E-2	R752	C-5		
C405	E-5	* C585	B-2	* C913	B-5	L401	C-5	* R318	D-7	* R501	E-5	R753	C-5		
C406	E-4	* C586	B-2	* C914	B-5	L451	C-4	* R319	E-8	* R502	D-2	R759	C-7		
C407	E-4	C601	B-6	* C915	A-8	* L501	B-1	R324	E-7	* R503	D-5	R760	C-7		
C408	E-5	C602	C-6	* C916	B-7	* L581	D-5	R325	E-6	* R504	D-5	* R802	G-2		
C409	F-3	C603	B-6	* C917	B-7	* L582	B-2	R326	E-7	* R505	D-5	R806	G-3		

SECTION 5

REPAIR PARTS LIST

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- CAPACITORS:
uF: μ F
- COILS
uH: μ H
- RESISTORS
All resistors are in ohms.
METAL: metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable
- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A..., uPA..., μ PA...,
uPB..., μ PB..., uPC..., μ PC...,
uPD..., μ PD...
- Abbreviation
CND : Canadian model
AUS : Australian model
HK : Hong Kong model
KR : Korea model
JE : Tourist model
J : Japanese model

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

The components identified by mark $\triangle$ or
dotted line with mark $\triangle$ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque
 $\triangle$ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant
le numéro spécifié.

5-2. ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description
	A-7079-008-A	SY-096 BOARD, COMPLETE (SERVICE)

		(Including IC301 (KI (5M SA) BOARD))
		< CAPACITOR >
C201	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C251	1-135-259-11	TANTAL. CHIP 10uF 20.00% 6.3V
C252	1-135-259-11	TANTAL. CHIP 10uF 20.00% 6.3V
C253	1-135-259-11	TANTAL. CHIP 10uF 20.00% 6.3V
C254	1-135-259-11	TANTAL. CHIP 10uF 20.00% 6.3V
C255	1-162-912-11	CERAMIC CHIP 7PF 0.5PF 50V
C256	1-162-912-11	CERAMIC CHIP 7PF 0.5PF 50V
C257	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C258	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C259	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C260	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C261	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C262	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C263	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C264	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C265	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C266	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C267	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C268	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C301	1-135-259-11	TANTAL. CHIP 10uF 20.00% 6.3V
C302	1-135-259-11	TANTAL. CHIP 10uF 20.00% 6.3V
C303	1-104-847-11	TANTAL. CHIP 22uF 20.00% 2.5V
C304	1-135-259-11	TANTAL. CHIP 10uF 20.00% 6.3V
C305	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C308	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C309	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C310	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C311	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C312	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C313	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C314	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C315	1-137-710-11	CERAMIC CHIP 10uF 20% 6.3V
C316	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C317	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C318	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C319	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C320	1-137-710-11	CERAMIC CHIP 10uF 20% 6.3V
C321	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C323	1-137-710-11	CERAMIC CHIP 10uF 20% 6.3V
C324	1-137-710-11	CERAMIC CHIP 10uF 20% 6.3V
C326	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C327	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C328	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C329	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C330	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C331	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C334	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C335	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C336	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C337	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C340	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C341	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C342	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C343	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C345	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V

Ref. No.	Part No.	Description
C346	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C347	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C348	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C349	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C350	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C351	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C352	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C353	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C354	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C355	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C356	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C357	1-119-750-11	TANTAL. CHIP 22uF 20.00% 6.3V
C358	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C359	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C360	1-137-710-11	CERAMIC CHIP 10uF 20% 6.3V
C361	1-128-964-91	TANTAL. CHIP 100uF 20% 6.3V
C362	1-100-786-91	TANTAL. CHIP 22uF 20% 6.3V
C364	1-164-943-11	CERAMIC CHIP 0.01uF 10.00% 16V
C365	1-107-819-11	CERAMIC CHIP 0.022uF 10.00% 16V
C401	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C402	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C403	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C404	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C405	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C406	1-164-850-11	CERAMIC CHIP 10PF 0.50PF 50V
C407	1-164-852-11	CERAMIC CHIP 12PF 5.00% 50V
C408	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C409	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C410	1-164-943-11	CERAMIC CHIP 0.01uF 10.00% 16V
C411	1-119-751-11	TANTAL. CHIP 22uF 20.00% 16V
C412	1-164-941-11	CERAMIC CHIP 0.0047uF 10.00% 16V
C413	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C414	1-164-939-11	CERAMIC CHIP 0.0022uF 10.00% 50V
C415	1-119-750-11	TANTAL. CHIP 22uF 20.00% 6.3V
C451	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C452	1-135-259-11	TANTAL. CHIP 10uF 20.00% 6.3V
C453	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C454	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C455	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C456	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C457	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C458	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C459	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C460	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C461	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C462	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C463	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C464	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C468	1-135-259-11	TANTAL. CHIP 10uF 20.00% 6.3V
C501	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C503	1-119-750-11	TANTAL. CHIP 22uF 20.00% 6.3V
C504	1-119-750-11	TANTAL. CHIP 22uF 20.00% 6.3V
C505	1-119-750-11	TANTAL. CHIP 22uF 20.00% 6.3V
C506	1-127-895-91	TANTAL. CHIP 22uF 20% 4V
C507	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C508	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C509	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C510	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C511	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C512	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V

Ref. No.	Part No.	Description				Ref. No.	Part No.	Description			
C513	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C622	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C515	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C623	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C516	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C624	1-119-923-11	CERAMIC CHIP	0.047uF	10.00%	10V
C517	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C625	1-119-923-11	CERAMIC CHIP	0.047uF	10.00%	10V
C518	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C626	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C519	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C627	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C520	1-127-895-91	TANTAL. CHIP	22uF	20%	4V	C628	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C522	1-127-895-91	TANTAL. CHIP	22uF	20%	4V	C629	1-135-259-11	TANTAL. CHIP	10uF	20.00%	6.3V
C523	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C630	1-164-937-11	CERAMIC CHIP	0.001uF	10.00%	50V
C524	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C631	1-127-578-91	TANTAL. CHIP	3.3uF	20%	6.3V
C525	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C632	1-117-863-11	CERAMIC CHIP	0.47uF	10.00%	6.3V
C526	1-164-931-11	CERAMIC CHIP	100PF	10.00%	50V	C702	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C527	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C704	1-119-750-11	TANTAL. CHIP	22uF	20.00%	6.3V
C528	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C706	1-164-874-11	CERAMIC CHIP	100PF	5.00%	50V
C529	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C708	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C530	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C709	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C531	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C710	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C532	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C751	1-117-919-11	TANTAL. CHIP	10uF	20.00%	6.3V
C533	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C753	1-117-919-11	TANTAL. CHIP	10uF	20.00%	6.3V
C534	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C754	1-117-919-11	TANTAL. CHIP	10uF	20.00%	6.3V
C535	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C756	1-117-919-11	TANTAL. CHIP	10uF	20.00%	6.3V
C536	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C757	1-113-987-11	TANTAL. CHIP	4.7uF	20.00%	25V
C537	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C758	1-131-860-91	TANTAL. CHIP	4.7uF	20%	10V
C538	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C759	1-113-987-11	TANTAL. CHIP	4.7uF	20.00%	25V
C539	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C761	1-117-919-11	TANTAL. CHIP	10uF	20.00%	6.3V
C540	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C762	1-117-919-11	TANTAL. CHIP	10uF	20.00%	6.3V
C542	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C763	1-117-919-11	TANTAL. CHIP	10uF	20.00%	6.3V
C543	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C766	1-117-919-11	TANTAL. CHIP	10uF	20.00%	6.3V
C544	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C767	1-100-507-91	CERAMIC CHIP	4.7uF	20%	6.3V
C545	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C768	1-100-507-91	CERAMIC CHIP	4.7uF	20%	6.3V
C546	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C801	1-119-750-11	TANTAL. CHIP	22uF	20.00%	6.3V
C548	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C802	1-164-943-11	CERAMIC CHIP	0.01uF	10.00%	16V
C549	1-127-895-91	TANTAL. CHIP	22uF	20%	4V	C803	1-164-943-11	CERAMIC CHIP	0.01uF	10.00%	16V
C551	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C804	1-164-943-11	CERAMIC CHIP	0.01uF	10.00%	16V
C552	1-164-940-11	CERAMIC CHIP	0.0033uF	10.00%	16V	C805	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C553	1-164-940-11	CERAMIC CHIP	0.0033uF	10.00%	16V	C807	1-113-986-11	TANTAL. CHIP	2.2uF	20.00%	25V
C557	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C808	1-113-986-11	TANTAL. CHIP	2.2uF	20.00%	25V
C581	1-127-895-91	TANTAL. CHIP	22uF	20%	4V	C809	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C582	1-119-750-11	TANTAL. CHIP	22uF	20.00%	6.3V	C810	1-164-739-11	CERAMIC CHIP	560PF	5.00%	50V
C583	1-127-895-91	TANTAL. CHIP	22uF	20%	4V	C811	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C584	1-119-750-11	TANTAL. CHIP	22uF	20.00%	6.3V	C812	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C585	1-119-750-11	TANTAL. CHIP	22uF	20.00%	6.3V	C813	1-113-994-11	TANTAL. CHIP	6.8uF	20.00%	16V
C586	1-119-750-11	TANTAL. CHIP	22uF	20.00%	6.3V	C814	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C601	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	C815	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C603	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V	C816	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C604	1-107-819-11	CERAMIC CHIP	0.022uF	10.00%	16V	C817	1-127-861-11	CERAMIC CHIP	2.2uF	10%	16V
C605	1-107-819-11	CERAMIC CHIP	0.022uF	10.00%	16V	C818	1-127-861-11	CERAMIC CHIP	2.2uF	10%	16V
C606	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C819	1-100-503-11	CERAMIC CHIP	4.7uF	10%	10V
C607	1-107-819-11	CERAMIC CHIP	0.022uF	10.00%	16V	C820	1-165-596-11	CERAMIC CHIP	2.2uF		35V
C608	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V	C903	1-128-964-91	TANTAL. CHIP	100uF	20%	6.3V
C609	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	C904	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C611	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	C905	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C612	1-107-819-11	CERAMIC CHIP	0.022uF	10.00%	16V	C906	1-164-943-11	CERAMIC CHIP	0.01uF	10.00%	16V
C614	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	C907	1-164-943-11	CERAMIC CHIP	0.01uF	10.00%	16V
C615	1-117-863-11	CERAMIC CHIP	0.47uF	10.00%	6.3V	C908	1-164-943-11	CERAMIC CHIP	0.01uF	10.00%	16V
C616	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	C909	1-164-943-11	CERAMIC CHIP	0.01uF	10.00%	16V
C617	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	C911	1-113-987-11	TANTAL. CHIP	4.7uF	20.00%	25V
C618	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C912	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C619	1-117-863-11	CERAMIC CHIP	0.47uF	10.00%	6.3V	C913	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C621	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	C914	1-164-739-11	CERAMIC CHIP	560PF	5.00%	50V

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Ref. No.	Part No.	Description			
C915	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C916	1-115-566-11	CERAMIC CHIP	4.7uF	10.00%	10V
C917	1-164-943-11	CERAMIC CHIP	0.01uF	10.00%	16V
< CONNECTOR >					
CN201	1-766-687-21	CONNECTOR, FFC/FPC 26P			
CN451	1-794-505-21	CONNECTOR, FPC (ZIF) 51P			
CN701	1-794-505-21	CONNECTOR, FPC (ZIF) 51P			
CN702	1-794-505-21	CONNECTOR, FPC (ZIF) 51P			
CN703	1-778-592-21	CONNECTOR, BOARD TO BOARD 50P			
CN706	1-766-340-21	CONNECTOR, FFC/FPC 10P			
CN707	1-766-342-21	CONNECTOR, FFC/FPC 12P			
CN709	1-817-706-11	CONNECTOR, FPC 12P			
CN711	1-815-098-11	CONNECTOR, FPC (ZIF) 21P			
CN712	1-794-375-21	PIN, CONNECTOR 2P			
CN713	1-778-506-21	PIN, CONNECTOR (PC BOARD) 2P			
CN751	1-778-593-21	CONNECTOR, BOARD TO BOARD 60P			
CN901	1-766-352-21	CONNECTOR, FFC/FPC 22P			
< DIODE >					
D401	8-719-073-01	DIODE MA111-(K8).S0			
D402	8-719-073-01	DIODE MA111-(K8).S0			
D404	8-719-027-76	DIODE 1SS357-TPH3			
D702	8-719-073-01	DIODE MA111-(K8).S0			
D704	6-500-186-01	DIODE MA2SD24008S0			
D801	8-719-071-34	DIODE RB521S-30-TE61			
D802	8-719-071-34	DIODE RB521S-30-TE61			
D803	8-719-056-51	DIODE MAZS0330L8S0			
D804	6-500-346-01	DIODE MAZS240008S0			
D805	8-719-076-88	DIODE MA2Z720001S0			
< FERRITE BEAD >					
FB201	1-414-921-11	FERRITE	0uH		
FB251	1-414-760-21	FERRITE	0uH		
FB252	1-414-760-21	FERRITE	0uH		
FB301	1-414-921-11	FERRITE	0uH		
FB302	1-414-921-11	FERRITE	0uH		
FB303	1-414-921-11	FERRITE	0uH		
FB304	1-469-580-11	FERRITE	0uH		
FB451	1-414-921-11	FERRITE	0uH		
FB501	1-414-921-11	FERRITE	0uH		
FB502	1-414-921-11	FERRITE	0uH		
FB503	1-414-921-11	FERRITE	0uH		
FB504	1-414-921-11	FERRITE	0uH		
FB505	1-469-836-21	FERRITE	0uH		
FB701	1-216-864-11	METAL CHIP	0	5%	1/16W (Note)
FB901	1-469-082-21	FERRITE	0uH		
< IC >					
IC201	8-759-465-98	IC BU9728AKV-E2			
IC251	6-704-875-01	IC GT3200-JV			
IC301	A-7078-917-A	IC KI (5M SA) BOARD, COMPLETE			
IC302	6-704-335-01	IC K4M563233D-EE1HT			
IC303	6-704-365-01	IC NJM2578KJ1(TE3)			
IC401	6-803-184-01	IC MB89083LGA-G-105-ERE1			
IC402	6-702-096-01	IC S-8425AAFT-TB-G			
IC451	8-759-058-64	IC TC7S32FU(TE85R)			
IC452	6-705-178-01	IC uPD65341F1-Y02-DN3-E2-A			
IC501	8-753-209-98	IC JSCIS002AF00GA-T6			

Ref. No.	Part No.	Description	
IC601	6-703-734-01	IC AN12908A-VB	
IC701	6-703-011-01	IC TC7SZ126AFE	
IC702	6-703-011-01	IC TC7SZ126AFE	
IC703	6-703-011-01	IC TC7SZ126AFE	
IC751	8-759-580-26	IC NJM2130F(TE2)	
IC752	6-705-356-01	IC R1114N331D-TR-FA	
IC753	6-704-873-01	IC XC6202S06XMR	
IC801	6-704-882-01	IC CM7103L42-T4	
IC802	6-701-385-01	IC LT1932ES6#TR	
IC902	8-752-109-93	IC CXM3008R-T4	
< COIL >			
L251	1-469-570-11	INDUCTOR	10uH
L252	1-469-570-11	INDUCTOR	10uH
L301	1-469-570-11	INDUCTOR	10uH
L302	1-469-570-11	INDUCTOR	10uH
L303	1-469-570-11	INDUCTOR	10uH
L304	1-469-570-11	INDUCTOR	10uH
L305	1-469-570-11	INDUCTOR	10uH
L306	1-469-570-11	INDUCTOR	10uH
L401	1-469-559-21	INDUCTOR	47uH
L451	1-469-570-11	INDUCTOR	10uH
L501	1-469-757-21	INDUCTOR	10uH
L581	1-469-757-21	INDUCTOR	10uH
L582	1-469-570-11	INDUCTOR	10uH
L583	1-469-570-11	INDUCTOR	10uH
L584	1-469-570-11	INDUCTOR	10uH
L601	1-469-555-21	INDUCTOR	10uH
L602	1-469-570-11	INDUCTOR	10uH
L751	1-400-336-21	INDUCTOR	1uH
L753	1-469-549-21	INDUCTOR	1uH
L754	1-400-336-21	INDUCTOR	1uH
L756	1-469-549-21	INDUCTOR	1uH
L757	1-400-336-21	INDUCTOR	1uH
L759	1-469-757-21	INDUCTOR	10uH
L760	1-469-549-21	INDUCTOR	1uH
L761	1-469-549-21	INDUCTOR	1uH
L762	1-400-336-21	INDUCTOR	1uH
L763	1-469-549-21	INDUCTOR	1uH
L764	1-400-336-21	INDUCTOR	1uH
L801	1-469-846-11	INDUCTOR	47uH
L802	1-469-570-11	INDUCTOR	10uH
L803	1-469-570-11	INDUCTOR	10uH
L804	1-469-846-11	INDUCTOR	47uH
L805	1-469-549-21	INDUCTOR	1uH
L806	1-414-410-21	INDUCTOR	10uH
L901	1-469-846-11	INDUCTOR	47uH
L902	1-469-570-11	INDUCTOR	10uH
< TRANSISTOR >			
Q302	8-729-050-74	TRANSISTOR	2SB1462L0AS0
Q303	8-729-050-74	TRANSISTOR	2SB1462L0AS0
Q304	8-729-050-74	TRANSISTOR	2SB1462L0AS0
Q307	6-550-179-01	TRANSISTOR	RN4904FE(TPLR3)
Q401	6-550-243-01	TRANSISTOR	DTC144TMT2L
Q402	6-550-241-01	TRANSISTOR	DTA144TMT2L
Q403	6-550-566-01	TRANSISTOR	DTC115TMT2L
Q404	8-729-054-52	TRANSISTOR	RN1910FE(TPLR3)
Q405	6-550-566-01	TRANSISTOR	DTC115TMT2L
Q406	8-729-041-43	TRANSISTOR	HN1L02FU(TE85R)

Note :
Resistor is mounted to the location where FB701 is printed.

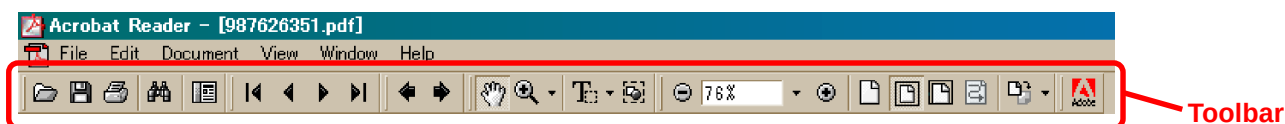
Ref. No.	Part No.	Description							Ref. No.	Part No.	Description			
Q451	6-550-354-01	TRANSISTOR	RTQ035P02TR						R410	1-218-985-11	RES-CHIP	470K	5%	1/16W
Q501	8-729-053-58	TRANSISTOR	RN1904FE(TPLR3)						R411	1-218-953-11	RES-CHIP	1K	5%	1/16W
Q601	6-550-119-01	TRANSISTOR	DTC144EMT2L						R412	1-218-953-11	RES-CHIP	1K	5%	1/16W
Q701	6-550-239-01	TRANSISTOR	DTA144EMT2L						R413	1-218-953-11	RES-CHIP	1K	5%	1/16W
Q702	6-550-576-01	TRANSISTOR	SSM6E01TU						R418	1-218-953-11	RES-CHIP	1K	5%	1/16W
Q703	6-550-179-01	TRANSISTOR	RN4904FE(TPLR3)						R419	1-218-985-11	METAL CHIP	470K	0.5%	1/16W
Q704	6-550-150-01	TRANSISTOR	SSM3J09FU(TE85L)						R420	1-208-943-11	METAL CHIP	220K	0.5%	1/16W
Q705	6-550-566-01	TRANSISTOR	DTC115TMT2L						R421	1-218-985-11	METAL CHIP	470K	0.5%	1/16W
Q706	6-550-237-01	TRANSISTOR	2SC584600LS0						R422	1-208-943-11	METAL CHIP	220K	0.5%	1/16W
Q707	6-550-239-01	TRANSISTOR	DTA144EMT2L						R423	1-218-973-11	RES-CHIP	47K	5%	1/16W
Q751	6-550-171-01	TRANSISTOR	MCH3317-TL-E						R424	1-218-985-11	RES-CHIP	470K	5%	1/16W
Q752	6-550-102-01	TRANSISTOR	2SC5663T2L						R425	1-219-570-11	METAL CHIP	10M	5%	1/10W
Q801	6-550-119-01	TRANSISTOR	DTC144EMT2L						R426	1-218-977-11	RES-CHIP	100K	5%	1/16W
Q802	8-729-056-00	TRANSISTOR	MCH3310-TL-E						R427	1-218-985-11	RES-CHIP	470K	5%	1/16W
Q901	8-729-037-52	TRANSISTOR	2SD2216J-QR(K8).SO						R428	1-218-975-11	RES-CHIP	68K	5%	1/16W
Q902	6-550-239-01	TRANSISTOR	DTA144EMT2L						R429	1-218-977-11	RES-CHIP	100K	5%	1/16W
Q903	8-729-042-26	TRANSISTOR	2SB1462J-QR(K8).SO						R432	1-218-990-11	SHORT CHIP	0		
< RESISTOR >														
R202	1-218-987-11	RES-CHIP	680K	5%	1/16W				R444	1-218-985-11	RES-CHIP	470K	5%	1/16W
R203	1-218-981-11	RES-CHIP	220K	5%	1/16W				R449	1-218-985-11	RES-CHIP	470K	5%	1/16W
R204	1-218-985-11	RES-CHIP	470K	5%	1/16W				R450	1-218-953-11	RES-CHIP	1K	5%	1/16W
R252	1-218-989-11	RES-CHIP	1M	5%	1/16W				R451	1-218-977-11	RES-CHIP	100K	5%	1/16W
R253	1-218-823-11	METAL CHIP	100	0.5%	1/10W				R452	1-216-864-11	METAL CHIP	0	5%	1/16W
R254	1-208-709-11	METAL CHIP	12K	0.5%	1/16W				R453	1-218-953-11	RES-CHIP	1K	5%	1/16W
R255	1-218-990-11	SHORT CHIP	0						R454	1-218-955-11	RES-CHIP	1.5K	5%	1/16W
R256	1-218-990-11	SHORT CHIP	0						R455	1-218-977-11	RES-CHIP	100K	5%	1/16W
R257	1-218-990-11	SHORT CHIP	0						R456	1-218-977-11	RES-CHIP	100K	5%	1/16W
R301	1-218-990-11	SHORT CHIP	0						R457	1-218-977-11	RES-CHIP	100K	5%	1/16W
R306	1-218-990-11	SHORT CHIP	0						R458	1-218-977-11	RES-CHIP	100K	5%	1/16W
R308	1-218-965-11	RES-CHIP	10K	5%	1/16W				R461	1-218-977-11	RES-CHIP	100K	5%	1/16W
R310	1-208-691-11	METAL CHIP	2.2K	0.5%	1/16W				R464	1-218-985-11	RES-CHIP	470K	5%	1/16W
R311	1-208-691-11	METAL CHIP	2.2K	0.5%	1/16W				R465	1-218-985-11	RES-CHIP	470K	5%	1/16W
R312	1-208-691-11	METAL CHIP	2.2K	0.5%	1/16W				R491	1-218-973-11	RES-CHIP	47K	5%	1/16W
R313	1-218-965-11	RES-CHIP	10K	5%	1/16W				R492	1-218-946-11	RES-CHIP	270	5%	1/16W
R315	1-208-663-11	METAL CHIP	150	0.5%	1/16W				R493	1-218-935-11	RES-CHIP	33	5%	1/16W
R316	1-218-958-11	METAL CHIP	2.7K	0.5%	1/16W				R494	1-218-965-11	RES-CHIP	10K	5%	1/16W
R317	1-218-968-11	RES-CHIP	18K	5%	1/16W				R495	1-218-990-11	SHORT CHIP	0		
R318	1-218-953-11	RES-CHIP	1K	5%	1/16W				R496	1-218-990-11	SHORT CHIP	0		
R319	1-218-970-11	METAL CHIP	27K	0.5%	1/16W				R497	1-218-985-11	RES-CHIP	470K	5%	1/16W
R324	1-208-663-11	METAL CHIP	150	0.5%	1/16W				R502	1-218-953-11	RES-CHIP	1K	5%	1/16W
R325	1-208-663-11	METAL CHIP	150	0.5%	1/16W				R503	1-218-941-81	RES-CHIP	100	5%	1/16W
R326	1-208-663-11	METAL CHIP	150	0.5%	1/16W				R504	1-218-990-11	SHORT CHIP	0		
R327	1-218-990-11	SHORT CHIP	0						R505	1-218-941-81	RES-CHIP	100	5%	1/16W
R331	1-208-713-11	METAL CHIP	18K	0.5%	1/16W				R506	1-218-990-11	SHORT CHIP	0		
R332	1-218-958-11	METAL CHIP	2.7K	0.5%	1/16W				R507	1-218-990-11	SHORT CHIP	0		
R334	1-218-970-11	METAL CHIP	27K	0.5%	1/16W				R508	1-218-990-11	SHORT CHIP	0		
R342	1-218-990-11	SHORT CHIP	0						R509	1-218-990-11	SHORT CHIP	0		
R344	1-208-707-11	METAL CHIP	10K	0.5%	1/16W				R510	1-218-933-11	RES-CHIP	22	5%	1/16W
R345	1-208-701-11	METAL CHIP	5.6K	0.5%	1/16W				R511	1-218-977-11	RES-CHIP	100K	5%	1/16W
R346	1-208-707-11	METAL CHIP	10K	0.5%	1/16W				R512	1-218-953-11	RES-CHIP	1K	5%	1/16W
R356	1-218-977-11	RES-CHIP	100K	5%	1/16W				R514	1-218-973-11	RES-CHIP	47K	5%	1/16W
R357	1-218-933-11	RES-CHIP	22	5%	1/16W				R515	1-218-973-11	RES-CHIP	47K	5%	1/16W
R358	1-218-939-11	RES-CHIP	68	5%	1/16W				R517	1-218-977-11	RES-CHIP	100K	5%	1/16W
R401	1-218-989-11	RES-CHIP	1M	5%	1/16W				R518	1-218-973-11	RES-CHIP	47K	5%	1/16W
R402	1-218-977-11	RES-CHIP	100K	5%	1/16W				R519	1-218-973-11	RES-CHIP	47K	5%	1/16W
R404	1-218-985-11	RES-CHIP	470K	5%	1/16W				R520	1-218-953-11	RES-CHIP	1K	5%	1/16W
R406	1-218-985-11	RES-CHIP	470K	5%	1/16W				R521	1-218-985-11	RES-CHIP	470K	5%	1/16W
R407	1-218-961-11	RES-CHIP	4.7K	5%	1/16W				R522	1-218-973-11	RES-CHIP	47K	5%	1/16W

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Ref. No.	Part No.	Description			
R523	1-218-977-11	RES-CHIP	100K	5%	1/16W
R524	1-218-990-11	SHORT CHIP	0		
R525	1-218-985-11	RES-CHIP	470K	5%	1/16W
R526	1-218-965-11	RES-CHIP	10K	5%	1/16W
R527	1-218-965-11	RES-CHIP	10K	5%	1/16W
R528	1-218-985-11	RES-CHIP	470K	5%	1/16W
R529	1-218-977-11	RES-CHIP	100K	5%	1/16W
R530	1-218-965-11	RES-CHIP	10K	5%	1/16W
R531	1-218-965-11	RES-CHIP	10K	5%	1/16W
R532	1-218-953-11	RES-CHIP	1K	5%	1/16W
R533	1-218-985-11	RES-CHIP	470K	5%	1/16W
R537	1-218-973-11	RES-CHIP	47K	5%	1/16W
R539	1-218-973-11	RES-CHIP	47K	5%	1/16W
R540	1-218-977-11	RES-CHIP	100K	5%	1/16W
R541	1-218-953-11	RES-CHIP	1K	5%	1/16W
R543	1-218-990-11	SHORT CHIP	0		
R552	1-218-977-11	RES-CHIP	100K	5%	1/16W
R553	1-218-977-11	RES-CHIP	100K	5%	1/16W
R555	1-218-990-11	SHORT CHIP	0		
R557	1-218-933-11	RES-CHIP	22	5%	1/16W
R558	1-218-933-11	RES-CHIP	22	5%	1/16W
R559	1-218-933-11	RES-CHIP	22	5%	1/16W
R560	1-218-933-11	RES-CHIP	22	5%	1/16W
R561	1-218-933-11	RES-CHIP	22	5%	1/16W
R562	1-218-977-11	RES-CHIP	100K	5%	1/16W
R563	1-218-977-11	RES-CHIP	100K	5%	1/16W
R564	1-218-977-11	RES-CHIP	100K	5%	1/16W
R565	1-218-977-11	RES-CHIP	100K	5%	1/16W
R602	1-218-973-11	RES-CHIP	47K	5%	1/16W
R603	1-218-990-11	SHORT CHIP	0		
R604	1-218-958-11	RES-CHIP	2.7K	5%	1/16W
R605	1-218-965-11	RES-CHIP	10K	5%	1/16W
R606	1-218-967-11	RES-CHIP	15K	5%	1/16W
R609	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R610	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R611	1-218-975-11	RES-CHIP	68K	5%	1/16W
R614	1-218-965-11	RES-CHIP	10K	5%	1/16W
R615	1-218-973-11	RES-CHIP	47K	5%	1/16W
R701	1-218-947-11	RES-CHIP	330	5%	1/16W
R702	1-218-947-11	RES-CHIP	330	5%	1/16W
R703	1-218-989-11	RES-CHIP	1M	5%	1/16W
R704	1-218-954-11	RES-CHIP	1.2K	5%	1/16W
R705	1-218-955-11	RES-CHIP	1.5K	5%	1/16W
R706	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R707	1-216-864-11	METAL CHIP	0	5%	1/16W
R708	1-218-981-11	RES-CHIP	220K	5%	1/16W
R709	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R710	1-218-985-11	RES-CHIP	470K	5%	1/16W
R711	1-218-977-11	RES-CHIP	100K	5%	1/16W
R712	1-218-985-11	RES-CHIP	470K	5%	1/16W
R713	1-218-946-11	RES-CHIP	270	5%	1/16W
R714	1-218-981-11	RES-CHIP	220K	5%	1/16W
R715	1-220-176-11	RES-CHIP	300	5%	1/16W
R716	1-218-971-11	RES-CHIP	33K	5%	1/16W
R720	1-218-937-11	RES-CHIP	47	5%	1/16W
R735	1-218-990-11	SHORT CHIP	0		
R736	1-218-973-11	RES-CHIP	47K	5%	1/16W
R737	1-218-973-11	RES-CHIP	47K	5%	1/16W
R752	1-208-947-11	METAL CHIP	330K	0.5%	1/16W
R753	1-208-943-11	METAL CHIP	220K	0.5%	1/16W

Ref. No.	Part No.	Description			
R759	1-208-909-11	METAL CHIP	8.2K	0.5%	1/16W
R760	1-208-933-11	METAL CHIP	82K	0.5%	1/16W
R802	1-218-985-11	RES-CHIP	470K	5%	1/16W
R806	1-218-990-11	SHORT CHIP	0		
R809	1-218-975-11	RES-CHIP	68K	5%	1/16W
R810	1-208-935-11	METAL CHIP	100K	0.5%	1/16W
R812	1-208-707-11	METAL CHIP	10K	0.5%	1/16W
R814	1-218-965-11	RES-CHIP	10K	5%	1/16W
R815	1-218-990-11	SHORT CHIP	0		
R816	1-218-990-11	SHORT CHIP	0		
R817	1-218-990-11	SHORT CHIP	0		
R818	1-208-721-11	METAL CHIP	39K	0.5%	1/16W
R819	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R820	1-208-711-11	METAL CHIP	15K	0.5%	1/16W
R821	1-218-958-11	METAL CHIP	2.7K	0.5%	1/16W
R823	1-218-990-11	SHORT CHIP	0		
R824	1-218-990-11	SHORT CHIP	0		
R903	1-218-990-11	SHORT CHIP	0		
R908	1-218-990-11	SHORT CHIP	0		
R909	1-218-990-11	SHORT CHIP	0		
R911	1-218-975-11	RES-CHIP	68K	5%	1/16W
R912	1-208-707-11	METAL CHIP	10K	0.5%	1/16W
R913	1-208-935-11	METAL CHIP	100K	0.5%	1/16W
R915	1-208-647-11	METAL CHIP	33	0.5%	1/16W
R916	1-208-635-11	RES-CHIP	10	5%	1/16W
R917	1-208-635-11	RES-CHIP	10	5%	1/16W
R918	1-208-635-11	RES-CHIP	10	5%	1/16W
R922	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R924	1-218-953-11	RES-CHIP	1K	5%	1/16W
R925	1-218-977-11	RES-CHIP	100K	5%	1/16W
< COMPOSITION CIRCUIT BLOCK >					
RB401	1-234-378-21	RES, NETWORK 10KX4	(1005)		
RB402	1-234-378-21	RES, NETWORK 10KX4	(1005)		
RB403	1-234-375-21	RES, NETWORK 1KX4	(1005)		
RB404	1-234-375-21	RES, NETWORK 1KX4	(1005)		
< VIBRATOR >					
X251	1-813-090-11	VIBRATOR, CRYSTAL (12MHz)			
X401	1-795-029-11	VIBRATOR, CRYSTAL (32.768kHz)			
X501	1-795-172-11	OSCILLATOR, CRYSTAL (27MHz)			

[Description of main button functions on toolbar of the Adobe Acrobat Reader Ver5.0 (for Windows)]



Printing a text

1. Click the Print button .
2. Specify a printer, print range, number of copies, and other options, and then click [OK].

Application of printing:

To set a range to be printed within a page, select the graphic selection tool  and drag on the page to enclose a range to be printed, and then click the Print button.

Reversing the screens displayed once

- To reverse the previous screens (operation) one by one, click the .
- To advance the reversed screens (operation) one by one, click the .

Application to the Service Manual:

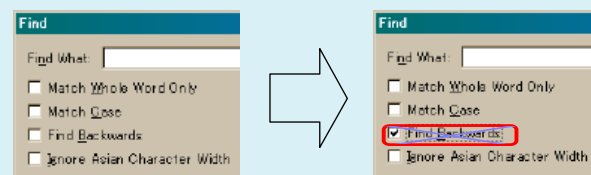
This function allows you to go and back between circuit diagram and printed circuit board diagram, and accordingly it will be convenient for the voltage check.

Finding a text

1. Click the Find button .
2. Enter a character string to be found into a text box, and click the [Find]. (Specify the find options as necessary)

Application to the Service Manual:

To execute "find" from current page toward the previous pages, select the check box "Find Backward" and then click the "Find".



3. Open the find dialog box again, and click the [Find Again] and you can find the matched character strings displayed next. (Character strings entered previously are displayed as they are in the text box.)

Application to the Service Manual:

The parts on the drawing pages (block diagrams, circuit diagrams, printed circuit boards) and parts list pages in a text can be found using this find function. For example, find a Ref. No. of IC on the block diagram, and click the [Find Again] continuously, so that you can move to the Ref. No. of IC on the circuit diagram or printed circuit board diagram successively.

Note: The find function may not be applied to the Service Manual depending on the date of issue.

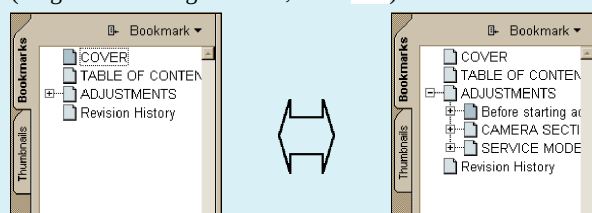
Moving with link

1. Select either palm tool , zoom tool , text selection tool , or graphic selection tool .
2. Place the pointer in the position in a text where the link exists (such as a button on cover and the table of contents page, or blue characters on the removal flowchart page or drawing page), and the pointer will change to the forefinger form .
3. Then, click the link. (You will go to the link destination.)

Moving with bookmark:

Click an item (text) on the bookmark pallet. and you can move to the link destination. Also, clicking  can display the hidden items.

(To go back to original state, click )



Zooming or rotating the screen display

"Zoom in/out"

- Click the triangle button in the zoom control box to select the display magnification. Or, you may click  or  for zooming in or out.



"Rotate"

- Click rotate tool , and the page then rotates 90 degrees each.

Application to the Service Manual:

The printed circuit board diagram you see now can be changed to the same direction as the set.

Switching a page

- To move to the first page, click the .
- To move to the last page, click the .
- To move to the previous page, click the .
- To move to the next page, click the .

Revision History

Ver.	Date	History	Contents	S.M. Rev. issued
1.0	2003.12	Official Release	—	—