

DSC-F828

SERVICE MANUAL

LEVEL 3

Ver 1.1 2005. 10

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 ▲ OR DOTTED LINE WITH MARK ▲ 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 IDENTIFIÉS PAR UNE MARQUE ▲ 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 SUPPÉMENTS 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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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. $\text{pF} : \mu\text{F}$. 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.

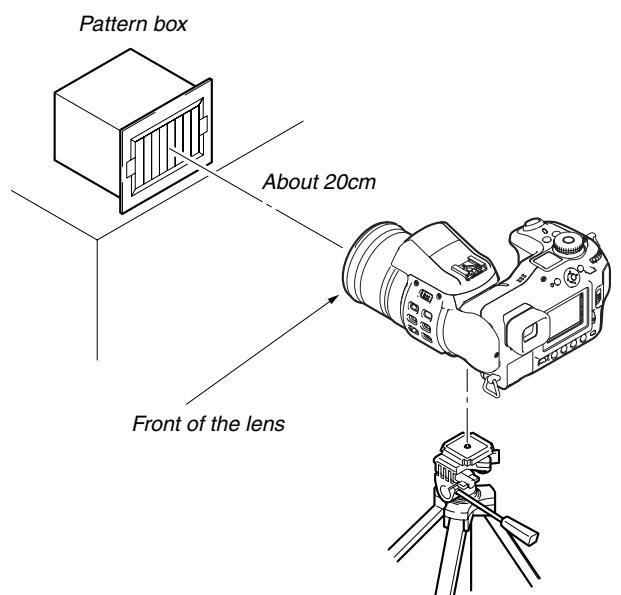
Example	C541 22U <u>TA A</u>	L452 10UH <u>2520</u>
Kinds of capacitor		
Temperature characteristics		
External dimensions (mm)		

- 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 → EDIT | PB/XREC → 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 M Ω 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.

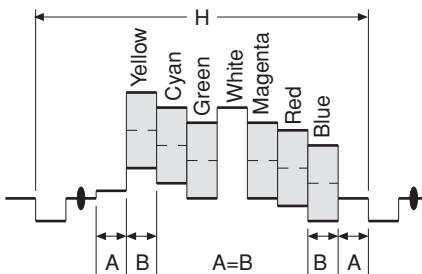


Fig. a (Video output terminal output waveform)

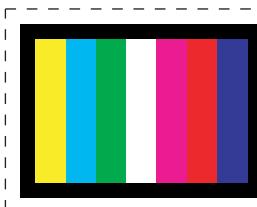


Fig. b (Picture on monitor TV)

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

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

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

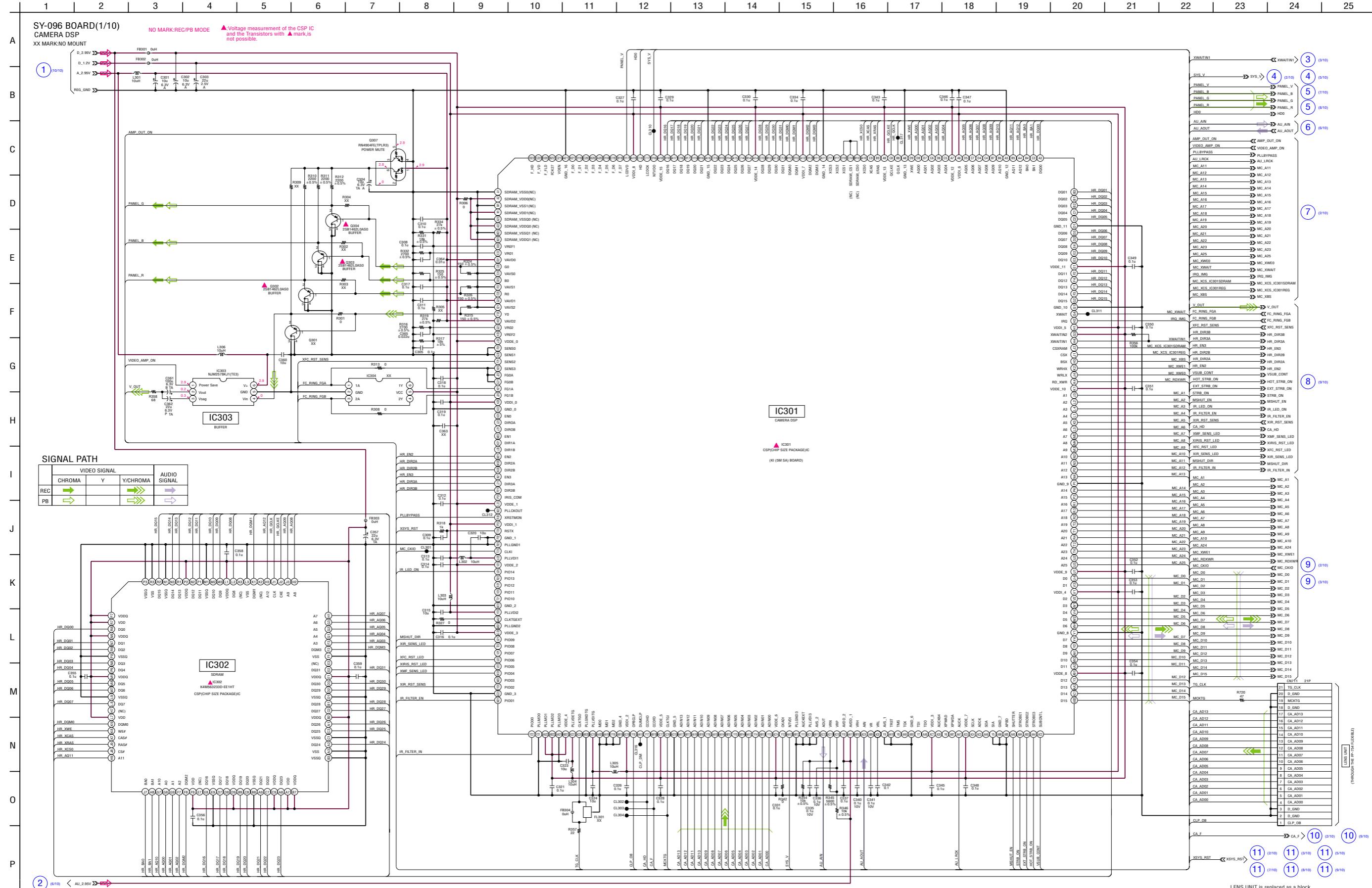
4-2. SCHEMATIC DIAGRAMS

SY-096 BOARD SIDE A

SY-096 BOARD SIDE B

For Schematic Diagram

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



LENS UNIT is replaced as a block.
So that these PRINTED WIRING BOARD and SCHEMATIC DIAGRAM are omitted.

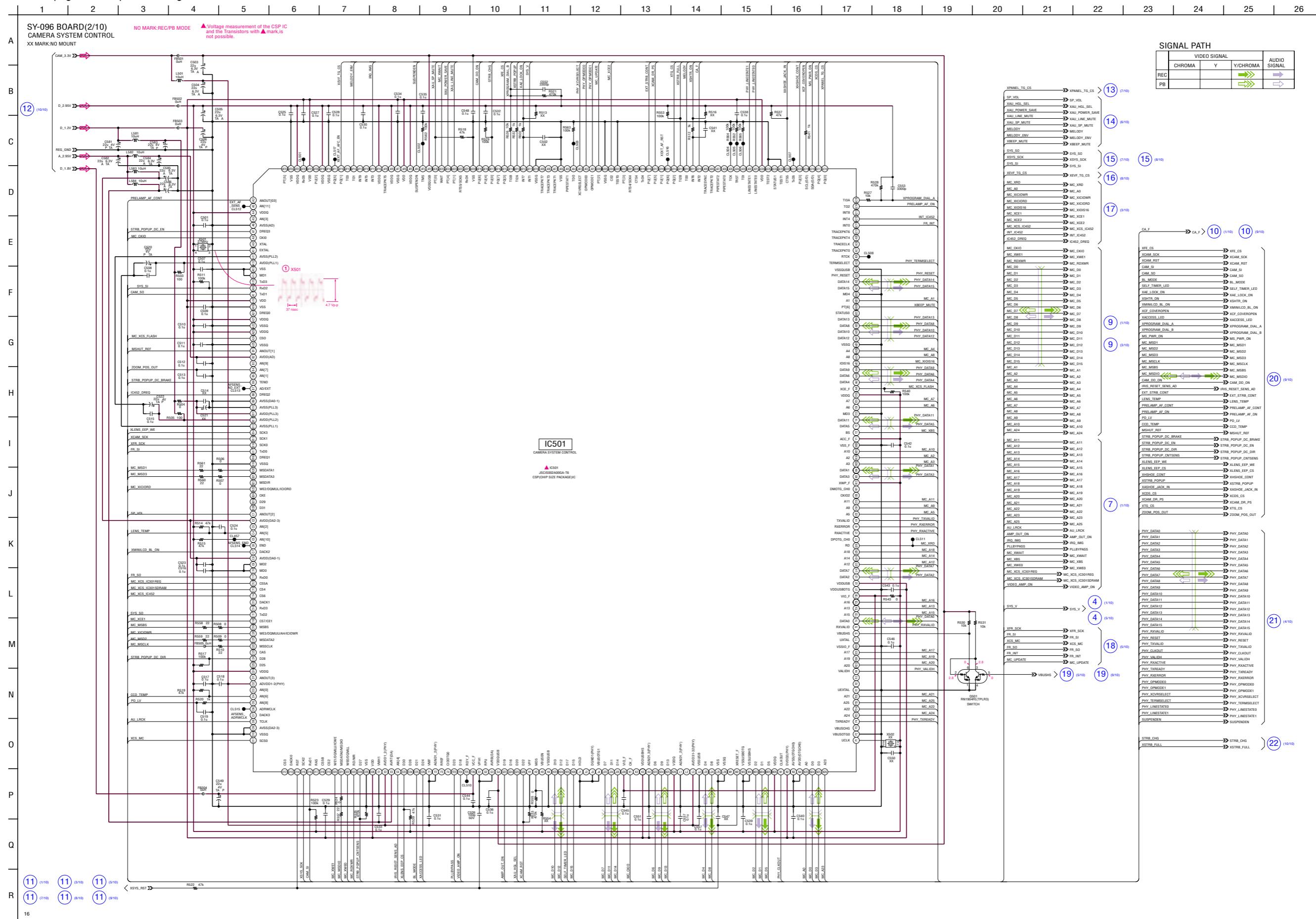
4-2. SCHEMATIC DIAGRAMS

SY-096 BOARD SIDE A

SY-096 BOARD SIDE B

For Schematic Diagram

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

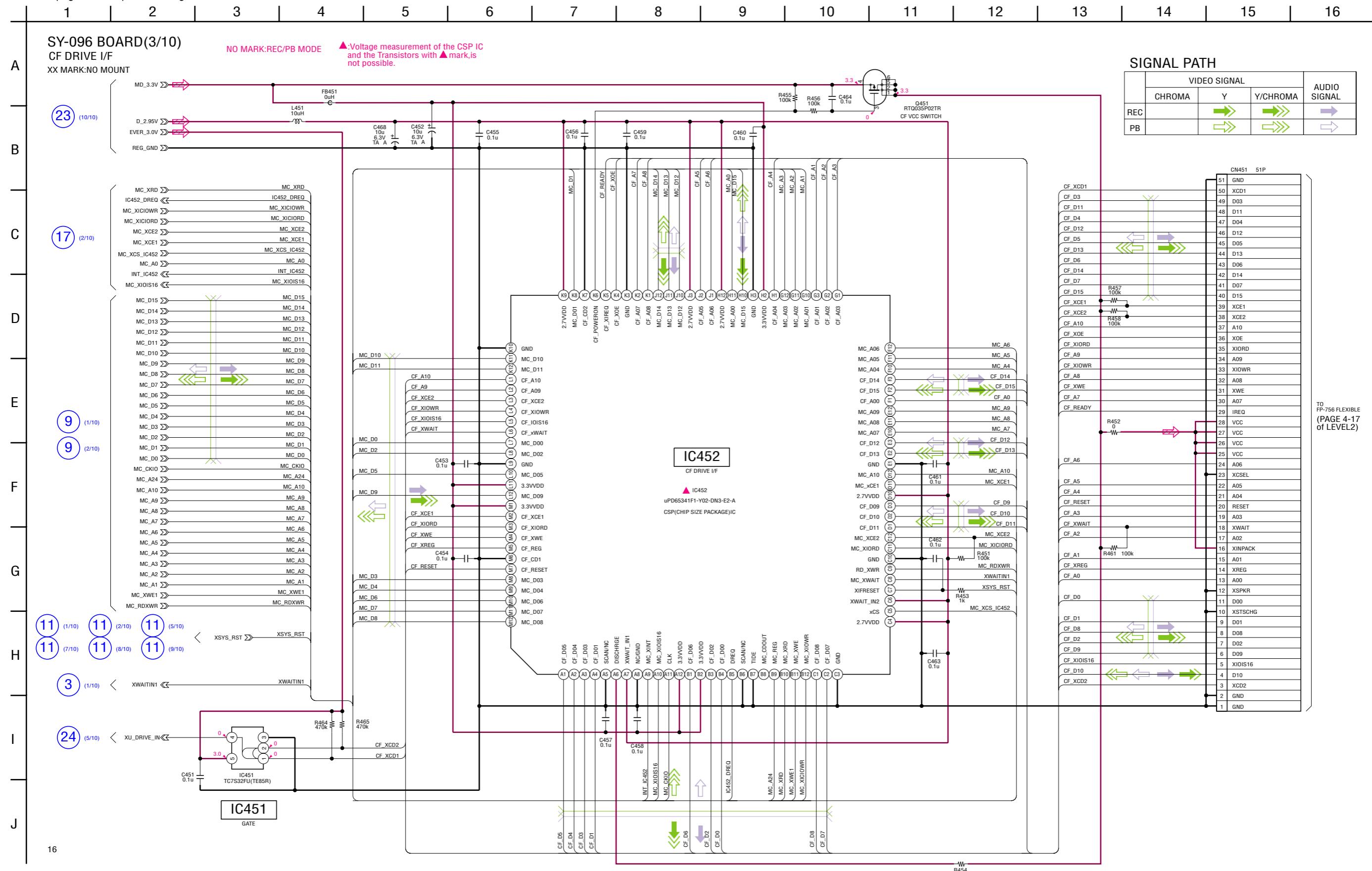


4-2. SCHEMATIC DIAGRAMS

SY-096 BOARD SIDE A

For Schematic Diagram

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



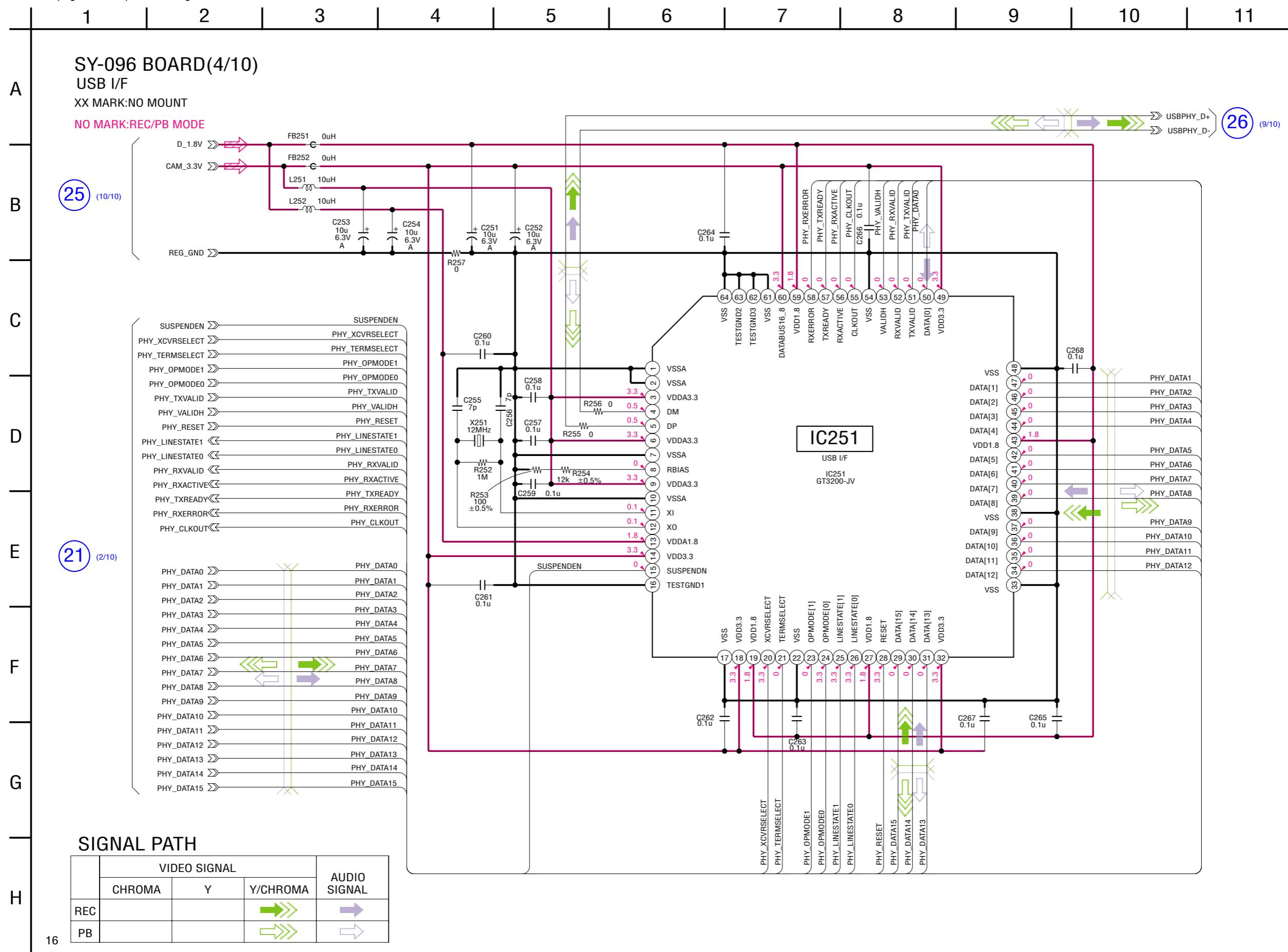
4-2. SCHEMATIC DIAGRAMS

SY-096 BOARD SIDE A

SY-096 BOARD SIDE B

For Schematic Diagram

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



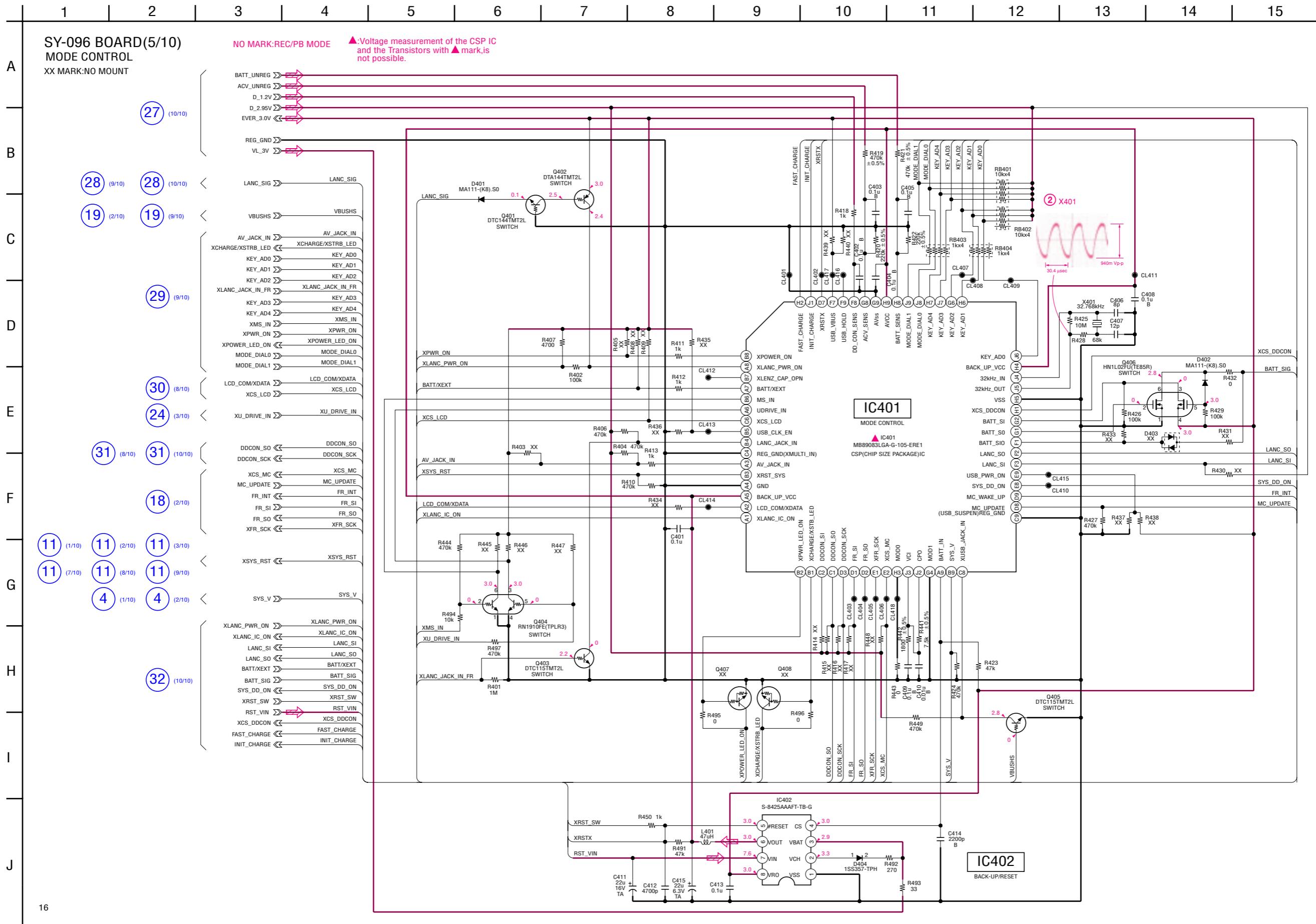
4-2. SCHEMATIC DIAGRAMS

SY-096 BOARD SIDE A

SY-096 BOARD SIDE B

For Schematic Diagram

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



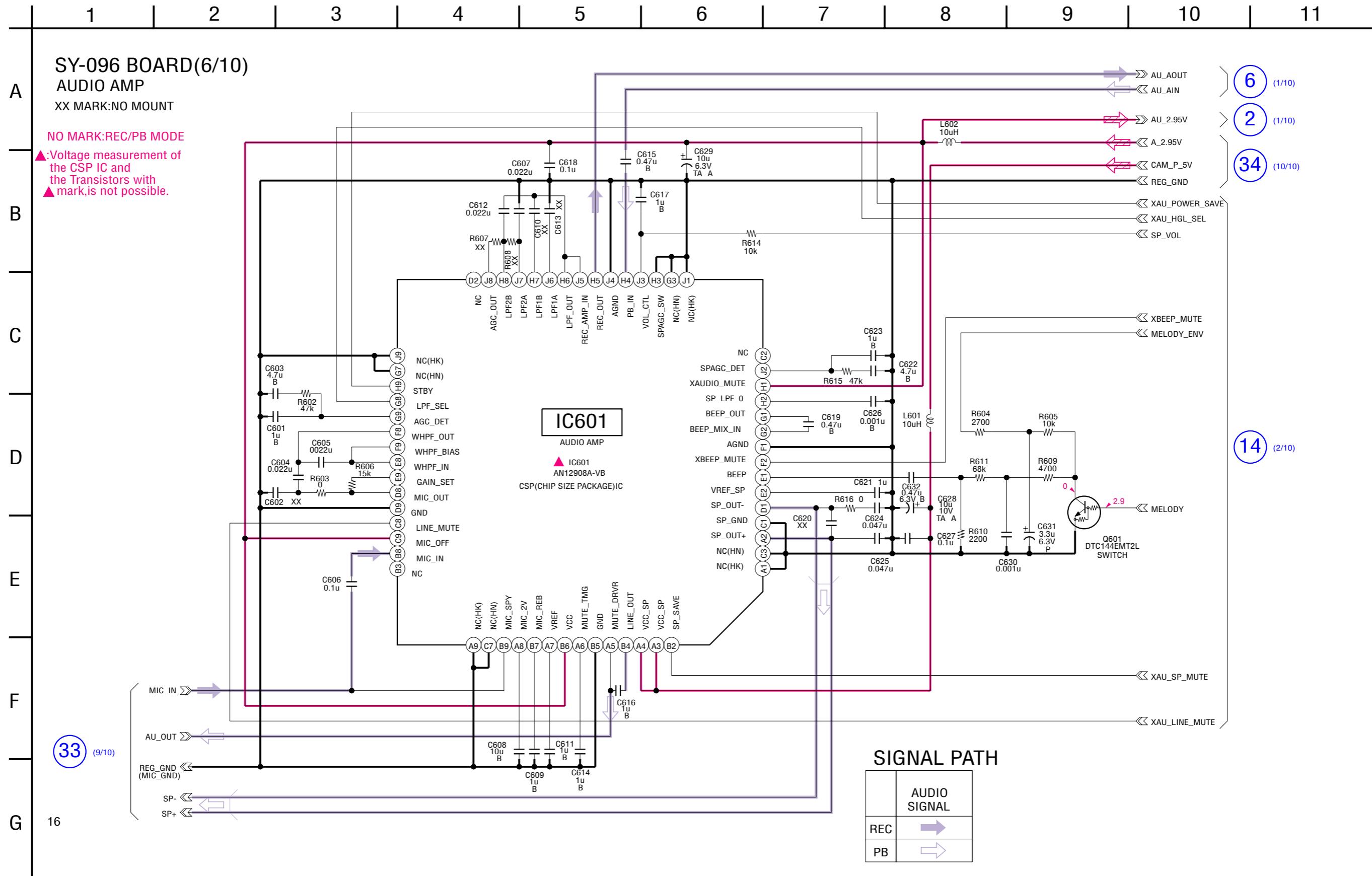
4-2. SCHEMATIC DIAGRAMS

SY-096 BOARD SIDE A

SY-096 BOARD SIDE B

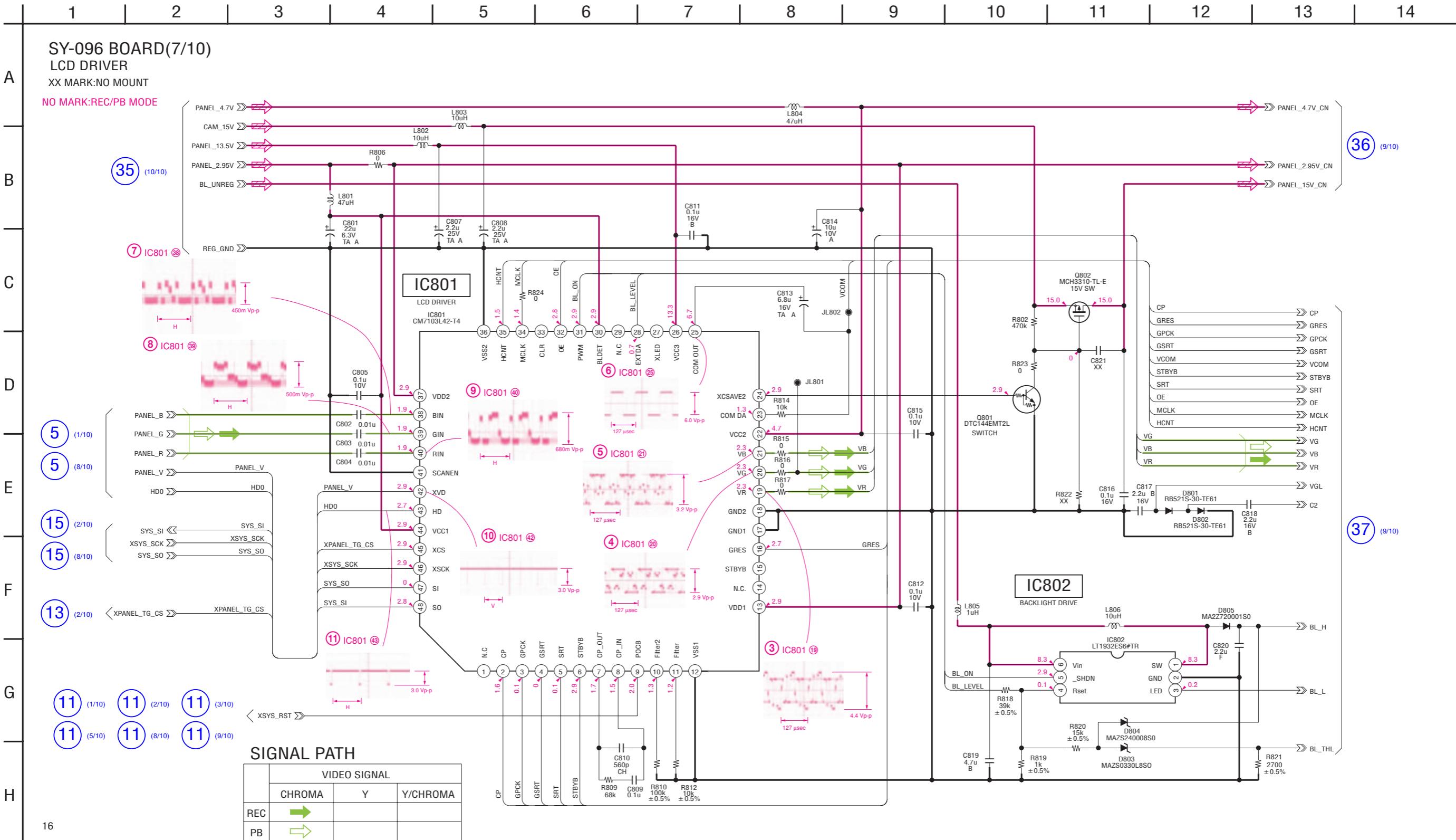
For Schematic Diagram

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



For Schematic Diagram

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



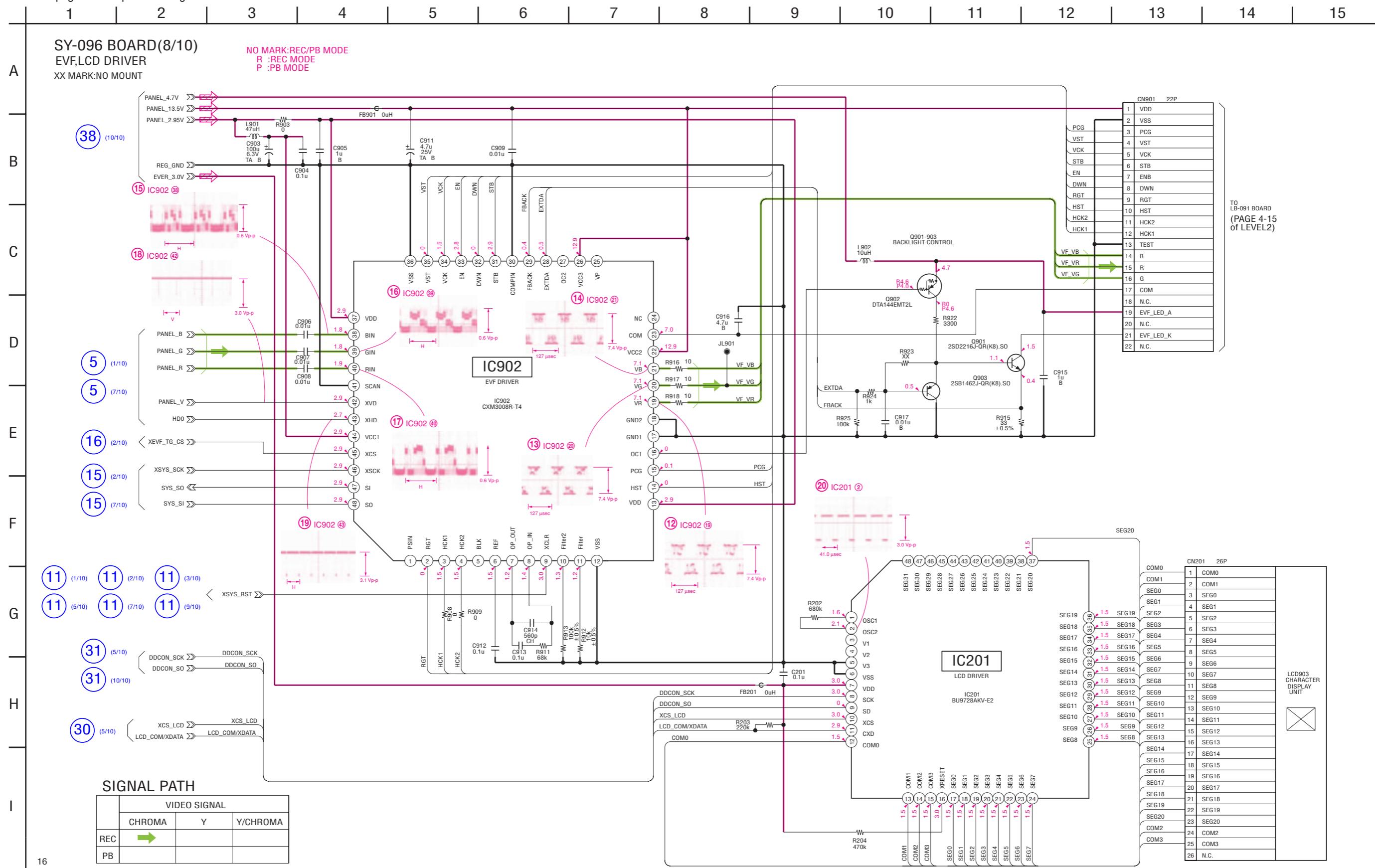
4-2. SCHEMATIC DIAGRAMS

SY-096 BOARD SIDE A

SY-096 BOARD SIDE B

For Schematic Diagram

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



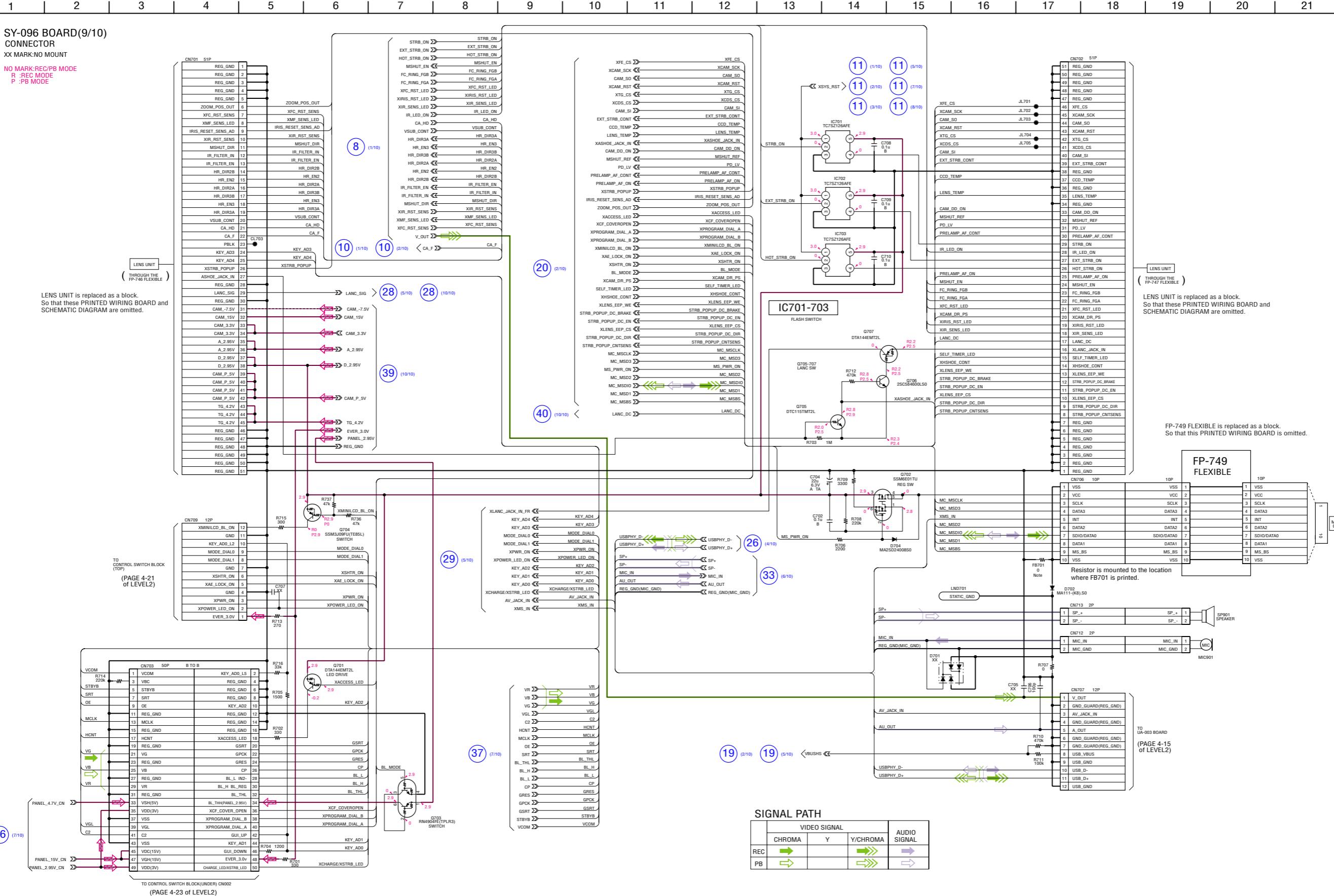
4-2. SCHEMATIC DIAGRAMS

SY-096 BOARD SIDE A

SY-096 BOARD SIDE B

For Schematic Diagram

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



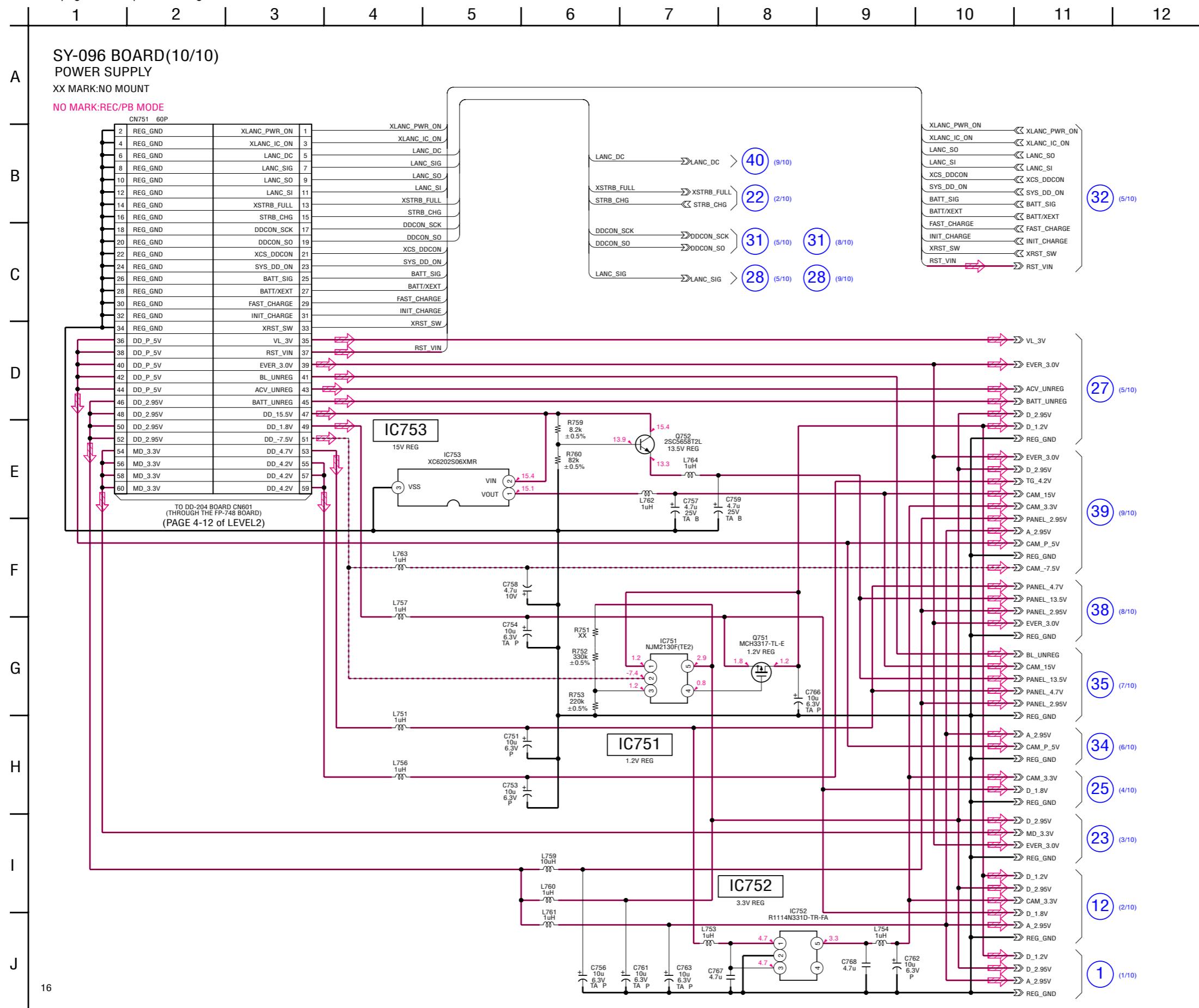
4-2. SCHEMATIC DIAGRAMS

SY-096 BOARD SIDE A

SY-096 BOARD SIDE B

For Schematic Diagram

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



4-3. PRINTED WIRING BOARDS

Link

- SY-096 BOARD (SIDE A)

- SY-096 BOARD (SIDE B)

- COMMON NOTE FOR SCHEMATIC DIAGRAMS

- MOUNTED PARTS LOCATION

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

4-3. PRINTED WIRING BOARDS

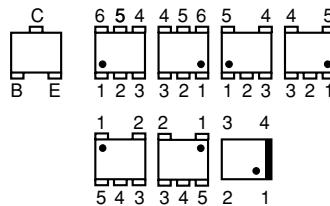
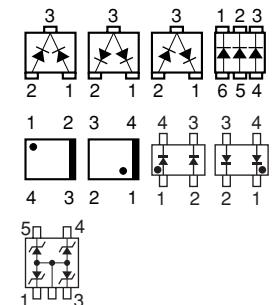
THIS NOTE IS COMMON FOR WIRING BOARDS

(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

4-2. SCHEMATIC DIAGRAMS

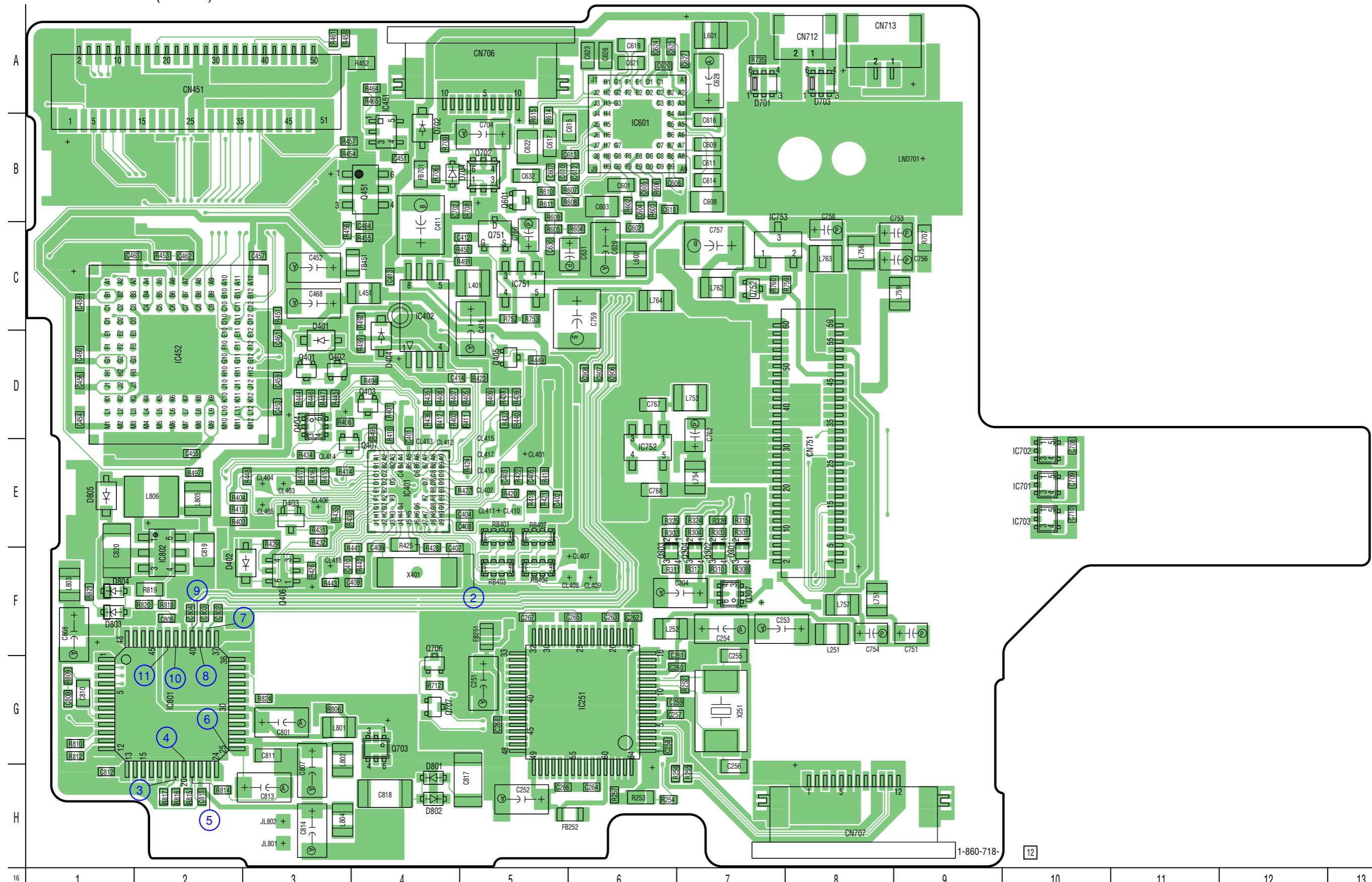
4-3. PRINTED WIRING BOARDS

MOUNTED PARTS LOCATION

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

•  : Uses unleaded solder.

SY-096 BOARD(SIDE A)



4-2. SCHEMATIC DIAGRAMS

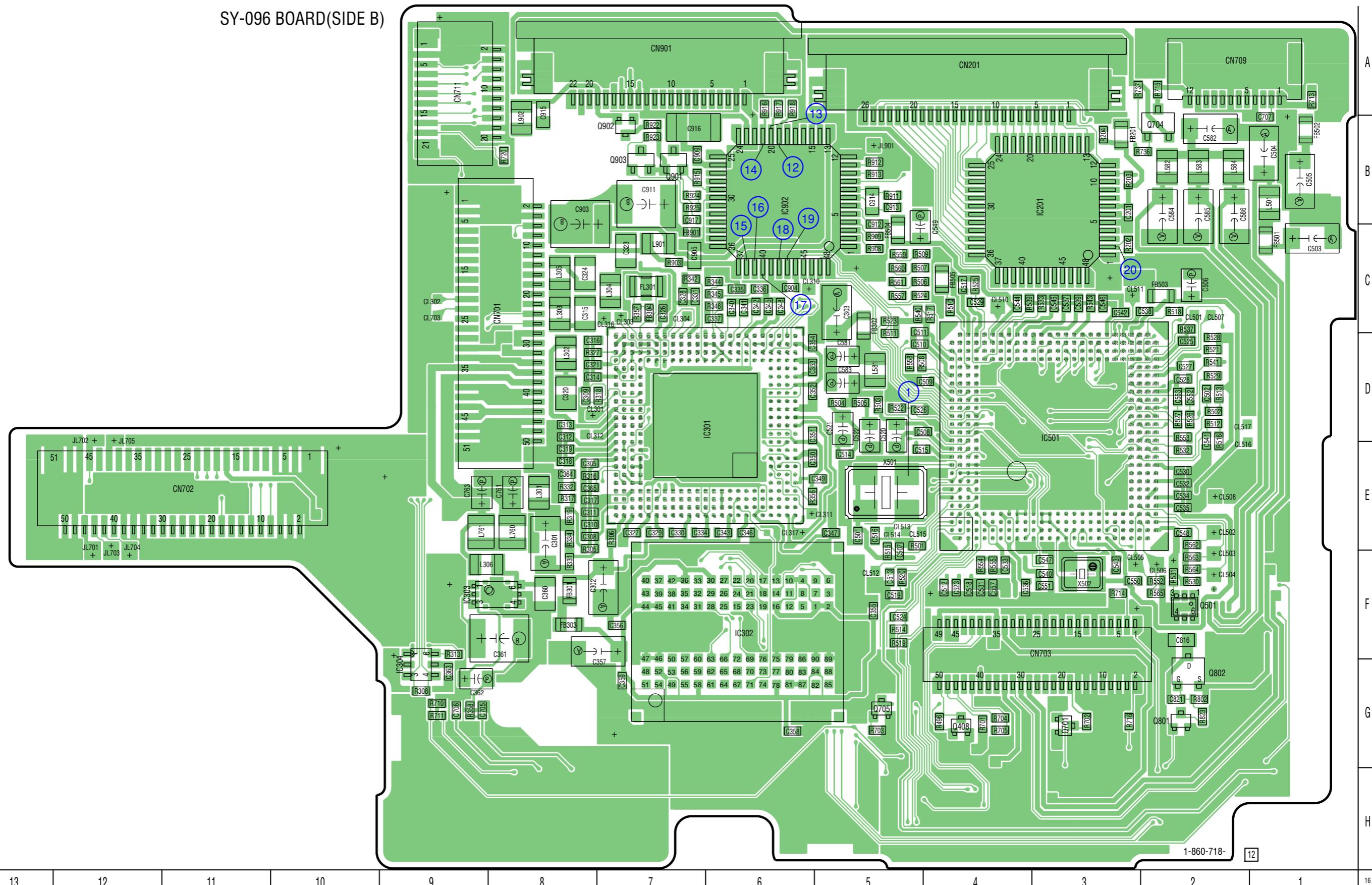
4-3. PRINTED WIRING BOARDS

MOUNTED PARTS LOCATION

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

•  : Uses unleaded solder.

SY-096 BOARD(SIDE B)



13 12 11 10 9 8 7 6 5 4 3 2 1 16

4-3. PRINTED WIRING BOARDS

4-4. MOUNTED PARTS LOCATION

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	* 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	E-2	C801	G-3	IC251	G-6	* Q802	G-2	R440	D-5	R606	B-6		
* C341	C-6	* C531	F-2	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		

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				Ref. No.	Part No.	Description			
	A-7079-008-A	SY-096 BOARD, COMPLETE (SERVICE)				C346	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
		*****				C347	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
		(Including IC301 (KI (5M SA) BOARD))				C348	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
		< CAPACITOR >				C349	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
						C350	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C201	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C351	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C251	1-135-259-11	TANTAL. CHIP	10uF	20.00%	6.3V	C352	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C252	1-135-259-11	TANTAL. CHIP	10uF	20.00%	6.3V	C353	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C253	1-135-259-11	TANTAL. CHIP	10uF	20.00%	6.3V	C354	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C254	1-135-259-11	TANTAL. CHIP	10uF	20.00%	6.3V	C355	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C255	1-162-912-11	CERAMIC CHIP	7PF	0.5PF	50V	C356	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C256	1-162-912-11	CERAMIC CHIP	7PF	0.5PF	50V	C357	1-119-750-11	TANTAL. CHIP	22uF	20.00%	6.3V
C257	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C358	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C258	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C359	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C259	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C360	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V
C260	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C361	1-128-964-91	TANTAL. CHIP	100uF	20%	6.3V
C261	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C362	1-100-786-91	TANTAL. CHIP	22uF	20%	6.3V
C262	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C364	1-164-943-11	CERAMIC CHIP	0.01uF	10.00%	16V
C263	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C365	1-107-819-11	CERAMIC CHIP	0.022uF	10.00%	16V
C264	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C401	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C265	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C402	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C266	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C403	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C267	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C404	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C268	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C405	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C301	1-135-259-11	TANTAL. CHIP	10uF	20.00%	6.3V	C406	1-164-850-11	CERAMIC CHIP	10PF	0.50PF	50V
C302	1-135-259-11	TANTAL. CHIP	10uF	20.00%	6.3V	C407	1-164-852-11	CERAMIC CHIP	12PF	5.00%	50V
C303	1-104-847-11	TANTAL. CHIP	22uF	20.00%	2.5V	C408	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C304	1-135-259-11	TANTAL. CHIP	10uF	20.00%	6.3V	C409	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C305	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C410	1-164-943-11	CERAMIC CHIP	0.01uF	10.00%	16V
C308	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C411	1-119-751-11	TANTAL. CHIP	22uF	20.00%	16V
C309	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C412	1-164-941-11	CERAMIC CHIP	0.0047uF	10.00%	16V
C310	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C413	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C311	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C414	1-164-939-11	CERAMIC CHIP	0.0022uF	10.00%	50V
C312	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C415	1-119-750-11	TANTAL. CHIP	22uF	20.00%	6.3V
C313	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C451	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C314	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C452	1-135-259-11	TANTAL. CHIP	10uF	20.00%	6.3V
C315	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V	C453	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C316	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C454	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C317	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C455	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C318	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C456	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C319	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C457	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C320	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V	C458	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C321	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C459	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C323	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V	C460	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C324	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V	C461	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C326	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C462	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C327	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C463	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C328	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C464	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C329	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C468	1-135-259-11	TANTAL. CHIP	10uF	20.00%	6.3V
C330	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C501	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C331	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C503	1-119-750-11	TANTAL. CHIP	22uF	20.00%	6.3V
C334	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C504	1-119-750-11	TANTAL. CHIP	22uF	20.00%	6.3V
C335	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C505	1-119-750-11	TANTAL. CHIP	22uF	20.00%	6.3V
C336	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C506	1-127-895-91	TANTAL. CHIP	22uF	20%	4V
C337	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C507	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C340	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C508	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C341	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C509	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C342	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C510	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C343	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V	C511	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C345	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			Ref. No.	Part No.	Description		
C915	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	IC601	6-703-734-01	IC AN12908A-VB	
C916	1-115-566-11	CERAMIC CHIP	4.7uF	10.00%	10V	IC701	6-703-011-01	IC TC7SZ126AFE	
C917	1-164-943-11	CERAMIC CHIP	0.01uF	10.00%	16V	IC702	6-703-011-01	IC TC7SZ126AFE	
< CONNECTOR >									
CN201	1-766-687-21	CONNECTOR, FFC/FPC 26P				IC703	6-703-011-01	IC TC7SZ126AFE	
CN451	1-794-505-21	CONNECTOR, FPC (ZIF) 51P				IC751	8-759-580-26	IC NJM2130F(TE2)	
CN701	1-794-505-21	CONNECTOR, FPC (ZIF) 51P				IC752	6-705-356-01	IC R1114N331D-TR-FA	
CN702	1-794-505-21	CONNECTOR, FPC (ZIF) 51P				IC753	6-704-873-01	IC XC6202S06XMR	
CN703	1-778-592-21	CONNECTOR, BOARD TO BOARD 50P				IC801	6-704-882-01	IC CM7103L42-T4	
< COIL >									
CN706	1-766-340-21	CONNECTOR, FFC/FPC 10P			L251	1-469-570-11	INDUCTOR	10uH	
CN707	1-766-342-21	CONNECTOR, FFC/FPC 12P			L252	1-469-570-11	INDUCTOR	10uH	
CN709	1-817-706-11	CONNECTOR, FPC 12P			L301	1-469-570-11	INDUCTOR	10uH	
CN711	1-815-098-11	CONNECTOR, FPC (ZIF) 21P			L302	1-469-570-11	INDUCTOR	10uH	
CN712	1-794-375-21	PIN, CONNECTOR 2P			L303	1-469-570-11	INDUCTOR	10uH	
CN713	1-778-506-21	PIN, CONNECTOR (PC BOARD) 2P			L304	1-469-570-11	INDUCTOR	10uH	
CN751	1-778-593-21	CONNECTOR, BOARD TO BOARD 60P			L305	1-469-570-11	INDUCTOR	10uH	
CN901	1-766-352-21	CONNECTOR, FFC/FPC 22P			L306	1-469-570-11	INDUCTOR	10uH	
< DIODE >									
D401	8-719-073-01	DIODE MA111-(K8).SO			L401	1-469-559-21	INDUCTOR	47uH	
D402	8-719-073-01	DIODE MA111-(K8).SO			L451	1-469-570-11	INDUCTOR	10uH	
D404	8-719-027-76	DIODE 1SS357-TPH3			L501	1-469-757-21	INDUCTOR	10uH	
D702	8-719-073-01	DIODE MA111-(K8).SO			L581	1-469-757-21	INDUCTOR	10uH	
D704	6-500-186-01	DIODE MA2SD24008SO			L582	1-469-570-11	INDUCTOR	10uH	
D801	8-719-071-34	DIODE RB521S-30-TE61			L583	1-469-570-11	INDUCTOR	10uH	
D802	8-719-071-34	DIODE RB521S-30-TE61			L584	1-469-570-11	INDUCTOR	10uH	
D803	8-719-056-51	DIODE MAZS0330L8SO			L601	1-469-555-21	INDUCTOR	10uH	
D804	6-500-346-01	DIODE MAZS240008SO			L602	1-469-570-11	INDUCTOR	10uH	
D805	8-719-076-88	DIODE MA2Z720001SO			L751	1-400-336-21	INDUCTOR	1uH	
< FERRITE BEAD >									
FB201	1-414-921-11	FERRITE	0uH		L753	1-469-549-21	INDUCTOR	1uH	
FB251	1-414-760-21	FERRITE	0uH		L754	1-400-336-21	INDUCTOR	1uH	
FB252	1-414-760-21	FERRITE	0uH		L756	1-469-549-21	INDUCTOR	1uH	
FB301	1-414-921-11	FERRITE	0uH		L757	1-400-336-21	INDUCTOR	1uH	
FB302	1-414-921-11	FERRITE	0uH		L759	1-469-757-21	INDUCTOR	10uH	
FB303	1-414-921-11	FERRITE	0uH		L760	1-469-549-21	INDUCTOR	1uH	
FB304	1-469-580-11	FERRITE	0uH		L761	1-469-549-21	INDUCTOR	1uH	
FB451	1-414-921-11	FERRITE	0uH		L762	1-400-336-21	INDUCTOR	1uH	
FB501	1-414-921-11	FERRITE	0uH		L763	1-469-549-21	INDUCTOR	1uH	
FB502	1-414-921-11	FERRITE	0uH		L764	1-400-336-21	INDUCTOR	1uH	
FB503	1-414-921-11	FERRITE	0uH		L801	1-469-846-11	INDUCTOR	47uH	
FB504	1-414-921-11	FERRITE	0uH		L802	1-469-570-11	INDUCTOR	10uH	
FB505	1-469-836-21	FERRITE	0uH		L803	1-469-570-11	INDUCTOR	10uH	
FB701	1-216-864-11	METAL CHIP	0	5%	1/16W (Note)	L804	1-469-846-11	INDUCTOR	47uH
FB901	1-469-082-21	FERRITE	0uH		L805	1-469-549-21	INDUCTOR	1uH	
< IC >									
IC201	8-759-465-98	IC BU9728AKV-E2			L806	1-414-410-21	INDUCTOR	10uH	
IC251	6-704-875-01	IC GT3200-JV			L901	1-469-846-11	INDUCTOR	47uH	
IC301	A-7078-917-A	IC KI (5M SA) BOARD, COMPLETE			L902	1-469-570-11	INDUCTOR	10uH	
IC302	6-704-335-01	IC K4M563233D-EE1HT			< TRANSISTOR >				
IC303	6-704-365-01	IC NJM2578KJ1(TE3)			Q302	8-729-050-74	TRANSISTOR	2SB1462L0AS0	
IC401	6-803-184-01	IC MB89083LGA-G-105-ERE1			Q303	8-729-050-74	TRANSISTOR	2SB1462L0AS0	
IC402	6-702-096-01	IC S-8425AFAFT-TB-G			Q304	8-729-050-74	TRANSISTOR	2SB1462L0AS0	
IC451	8-759-058-64	IC TC7S32FU(TE85R)			Q307	6-550-179-01	TRANSISTOR	RN4904FE(TPLR3)	
IC452	6-705-178-01	IC uPD65341F1-Y02-DN3-E2-A			Q401	6-550-243-01	TRANSISTOR	DTC144TMT2L	
IC501	not supplied	IC JSCIS002AF00GA-T6 (Note1)							

Note :

Resistor is mounted to the location where FB701 is printed.

Note 1 :

A service for IC501 is not available because an adjustment is required before replacement.

Ref. No.	Part No.	Description		Ref. No.	Part No.	Description			
Q402	6-550-241-01	TRANSISTOR	DTA144TMT2L	R401	1-218-989-11	RES-CHIP	1M		
Q403	6-550-566-01	TRANSISTOR	DTC115TMT2L	R402	1-218-977-11	RES-CHIP	100K		
Q404	8-729-054-52	TRANSISTOR	RN1910FE(TPLR3)	R404	1-218-985-11	RES-CHIP	470K		
Q405	6-550-566-01	TRANSISTOR	DTC115TMT2L	R406	1-218-985-11	RES-CHIP	470K		
Q406	8-729-041-43	TRANSISTOR	HN1L02FU(TE85R)	R407	1-218-961-11	RES-CHIP	4.7K		
Q451	6-550-354-01	TRANSISTOR	RTQ035P02TR	R410	1-218-985-11	RES-CHIP	470K		
Q501	8-729-053-58	TRANSISTOR	RN1904FE(TPLR3)	R411	1-218-953-11	RES-CHIP	1K		
Q601	6-550-119-01	TRANSISTOR	DTC144EMT2L	R412	1-218-953-11	RES-CHIP	1K		
Q701	6-550-239-01	TRANSISTOR	DTA144EMT2L	R413	1-218-953-11	RES-CHIP	1K		
Q702	6-550-576-01	TRANSISTOR	SSM6E01TU	R418	1-218-953-11	RES-CHIP	1K		
Q703	6-550-179-01	TRANSISTOR	RN4904FE(TPLR3)	R419	1-218-985-11	METAL CHIP	470K		
Q704	6-550-150-01	TRANSISTOR	SSM3J09FU(TE85L)	R420	1-208-943-11	METAL CHIP	220K		
Q705	6-550-566-01	TRANSISTOR	DTC115TMT2L	R421	1-218-985-11	METAL CHIP	470K		
Q706	6-550-237-01	TRANSISTOR	2SC584600LS0	R422	1-208-943-11	METAL CHIP	220K		
Q707	6-550-239-01	TRANSISTOR	DTA144EMT2L	R423	1-218-973-11	RES-CHIP	47K		
Q751	6-550-171-01	TRANSISTOR	MCH3317-TL-E	R424	1-218-985-11	RES-CHIP	470K		
Q752	6-550-102-01	TRANSISTOR	2SC5663T2L	R425	1-219-570-11	METAL CHIP	10M		
Q801	6-550-119-01	TRANSISTOR	DTC144EMT2L	R426	1-218-977-11	RES-CHIP	100K		
Q802	8-729-056-00	TRANSISTOR	MCH3310-TL-E	R427	1-218-985-11	RES-CHIP	470K		
Q901	8-729-037-52	TRANSISTOR	2SD2216J-QR(K8).SO	R428	1-218-975-11	RES-CHIP	68K		
Q902	6-550-239-01	TRANSISTOR	DTA144EMT2L	R429	1-218-977-11	RES-CHIP	100K		
Q903	8-729-042-26	TRANSISTOR	2SB1462J-QR(K8).SO	R432	1-218-990-11	SHORT CHIP	0		
		< RESISTOR >		R441	1-208-908-11	METAL CHIP	7.5K		
				R442	1-208-689-11	METAL CHIP	1.8K		
				R443	1-218-990-11	SHORT CHIP	0		
R202	1-218-987-11	RES-CHIP	680K	5%	1/16W	R444	1-218-985-11	RES-CHIP	470K
R203	1-218-981-11	RES-CHIP	220K	5%	1/16W	R449	1-218-985-11	RES-CHIP	470K
R204	1-218-985-11	RES-CHIP	470K	5%	1/16W	R450	1-218-953-11	RES-CHIP	1K
R252	1-218-989-11	RES-CHIP	1M	5%	1/16W	R451	1-218-977-11	RES-CHIP	100K
R253	1-218-823-11	METAL CHIP	100	0.5%	1/10W	R452	1-216-864-11	METAL CHIP	0
R254	1-208-709-11	METAL CHIP	12K	0.5%	1/16W	R453	1-218-953-11	RES-CHIP	1K
R255	1-218-990-11	SHORT CHIP	0			R454	1-218-955-11	RES-CHIP	1.5K
R256	1-218-990-11	SHORT CHIP	0			R455	1-218-977-11	RES-CHIP	100K
R257	1-218-990-11	SHORT CHIP	0			R456	1-218-977-11	RES-CHIP	100K
R301	1-218-990-11	SHORT CHIP	0			R457	1-218-977-11	RES-CHIP	100K
R306	1-218-990-11	SHORT CHIP	0			R458	1-218-977-11	RES-CHIP	100K
R308	1-218-965-11	RES-CHIP	10K	5%	1/16W	R461	1-218-977-11	RES-CHIP	100K
R310	1-208-691-11	METAL CHIP	2.2K	0.5%	1/16W	R464	1-218-985-11	RES-CHIP	470K
R311	1-208-691-11	METAL CHIP	2.2K	0.5%	1/16W	R465	1-218-985-11	RES-CHIP	470K
R312	1-208-691-11	METAL CHIP	2.2K	0.5%	1/16W	R491	1-218-973-11	RES-CHIP	47K
R313	1-218-965-11	RES-CHIP	10K	5%	1/16W	R492	1-218-946-11	RES-CHIP	270
R315	1-208-663-11	METAL CHIP	150	0.5%	1/16W	R493	1-218-935-11	RES-CHIP	33
R316	1-218-958-11	METAL CHIP	2.7K	0.5%	1/16W	R494	1-218-965-11	RES-CHIP	10K
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
R324	1-208-663-11	METAL CHIP	150	0.5%	1/16W	R502	1-218-953-11	RES-CHIP	1K
R325	1-208-663-11	METAL CHIP	150	0.5%	1/16W	R503	1-218-941-81	RES-CHIP	100
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
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
R345	1-208-701-11	METAL CHIP	5.6K	0.5%	1/16W	R511	1-218-977-11	RES-CHIP	100K
R346	1-208-707-11	METAL CHIP	10K	0.5%	1/16W	R512	1-218-953-11	RES-CHIP	1K
R356	1-218-977-11	RES-CHIP	100K	5%	1/16W	R514	1-218-973-11	RES-CHIP	47K
R357	1-218-933-11	RES-CHIP	22	5%	1/16W	R515	1-218-973-11	RES-CHIP	47K
R358	1-218-939-11	RES-CHIP	68	5%	1/16W	R517	1-218-977-11	RES-CHIP	100K

Ref. No.	Part No.	Description			Ref. No.	Part No.	Description				
R518	1-218-973-11	RES-CHIP	47K	5%	1/16W	R735	1-218-990-11	SHORT CHIP	0		
R519	1-218-973-11	RES-CHIP	47K	5%	1/16W	R736	1-218-973-11	RES-CHIP	47K	5%	1/16W
R520	1-218-953-11	RES-CHIP	1K	5%	1/16W	R737	1-218-973-11	RES-CHIP	47K	5%	1/16W
R521	1-218-985-11	RES-CHIP	470K	5%	1/16W	R752	1-208-947-11	METAL CHIP	330K	0.5%	1/16W
R522	1-218-973-11	RES-CHIP	47K	5%	1/16W	R753	1-208-943-11	METAL CHIP	220K	0.5%	1/16W
R523	1-218-977-11	RES-CHIP	100K	5%	1/16W	R759	1-208-909-11	METAL CHIP	8.2K	0.5%	1/16W
R524	1-218-990-11	SHORT CHIP	0			R760	1-208-933-11	METAL CHIP	82K	0.5%	1/16W
R525	1-218-985-11	RES-CHIP	470K	5%	1/16W	R802	1-218-985-11	RES-CHIP	470K	5%	1/16W
R526	1-218-965-11	RES-CHIP	10K	5%	1/16W	R806	1-218-990-11	SHORT CHIP	0		
R527	1-218-965-11	RES-CHIP	10K	5%	1/16W	R809	1-218-975-11	RES-CHIP	68K	5%	1/16W
R528	1-218-985-11	RES-CHIP	470K	5%	1/16W	R810	1-208-935-11	METAL CHIP	100K	0.5%	1/16W
R529	1-218-977-11	RES-CHIP	100K	5%	1/16W	R812	1-208-707-11	METAL CHIP	10K	0.5%	1/16W
R530	1-218-965-11	RES-CHIP	10K	5%	1/16W	R814	1-218-965-11	RES-CHIP	10K	5%	1/16W
R531	1-218-965-11	RES-CHIP	10K	5%	1/16W	R815	1-218-990-11	SHORT CHIP	0		
R532	1-218-953-11	RES-CHIP	1K	5%	1/16W	R816	1-218-990-11	SHORT CHIP	0		
R533	1-218-985-11	RES-CHIP	470K	5%	1/16W	R817	1-218-990-11	SHORT CHIP	0		
R537	1-218-973-11	RES-CHIP	47K	5%	1/16W	R818	1-208-721-11	METAL CHIP	39K	0.5%	1/16W
R539	1-218-973-11	RES-CHIP	47K	5%	1/16W	R819	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R540	1-218-977-11	RES-CHIP	100K	5%	1/16W	R820	1-208-711-11	METAL CHIP	15K	0.5%	1/16W
R541	1-218-953-11	RES-CHIP	1K	5%	1/16W	R821	1-218-958-11	METAL CHIP	2.7K	0.5%	1/16W
R543	1-218-990-11	SHORT CHIP	0			R823	1-218-990-11	SHORT CHIP	0		
R552	1-218-977-11	RES-CHIP	100K	5%	1/16W	R824	1-218-990-11	SHORT CHIP	0		
R553	1-218-977-11	RES-CHIP	100K	5%	1/16W	R903	1-218-990-11	SHORT CHIP	0		
R555	1-218-990-11	SHORT CHIP	0			R908	1-218-990-11	SHORT CHIP	0		
R557	1-218-933-11	RES-CHIP	22	5%	1/16W	R909	1-218-990-11	SHORT CHIP	0		
R558	1-218-933-11	RES-CHIP	22	5%	1/16W	R911	1-218-975-11	RES-CHIP	68K	5%	1/16W
R559	1-218-933-11	RES-CHIP	22	5%	1/16W	R912	1-208-707-11	METAL CHIP	10K	0.5%	1/16W
R560	1-218-933-11	RES-CHIP	22	5%	1/16W	R913	1-208-935-11	METAL CHIP	100K	0.5%	1/16W
R561	1-218-933-11	RES-CHIP	22	5%	1/16W	R915	1-208-647-11	METAL CHIP	33	0.5%	1/16W
R562	1-218-977-11	RES-CHIP	100K	5%	1/16W	R916	1-208-635-11	RES-CHIP	10	5%	1/16W
R563	1-218-977-11	RES-CHIP	100K	5%	1/16W	R917	1-208-635-11	RES-CHIP	10	5%	1/16W
R564	1-218-977-11	RES-CHIP	100K	5%	1/16W	R918	1-208-635-11	RES-CHIP	10	5%	1/16W
R565	1-218-977-11	RES-CHIP	100K	5%	1/16W	R922	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R602	1-218-973-11	RES-CHIP	47K	5%	1/16W	R924	1-218-953-11	RES-CHIP	1K	5%	1/16W
R603	1-218-990-11	SHORT CHIP	0			R925	1-218-977-11	RES-CHIP	100K	5%	1/16W
R604	1-218-958-11	RES-CHIP	2.7K	5%	1/16W						< COMPOSITION CIRCUIT BLOCK >
R605	1-218-965-11	RES-CHIP	10K	5%	1/16W	RB401	1-234-378-21	RES, NETWORK 10KX4	(1005)		
R606	1-218-967-11	RES-CHIP	15K	5%	1/16W	RB402	1-234-378-21	RES, NETWORK 10KX4	(1005)		
R609	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	RB403	1-234-375-21	RES, NETWORK 1KX4	(1005)		
R610	1-218-957-11	RES-CHIP	2.2K	5%	1/16W	RB404	1-234-375-21	RES, NETWORK 1KX4	(1005)		
R611	1-218-975-11	RES-CHIP	68K	5%	1/16W						< VIBRATOR >
R614	1-218-965-11	RES-CHIP	10K	5%	1/16W	X251	1-813-090-11	VIBRATOR, CRYSTAL (12MHz)			
R615	1-218-973-11	RES-CHIP	47K	5%	1/16W	X401	1-795-029-11	VIBRATOR, CRYSTAL (32.768kHz)			
R701	1-218-947-11	RES-CHIP	330	5%	1/16W	X501	1-795-172-11	OSCILLATOR, CRYSTAL (27MHz)			
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						

[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:

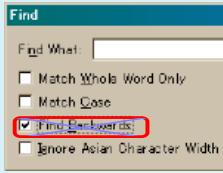
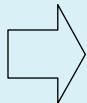
To set a range to be printed within a page, select the graphic selection tool and drag on the page to enclose a range to be printed, and then click the Print button.

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.

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

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.

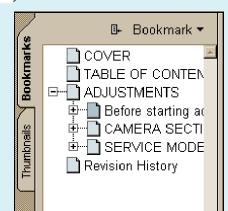
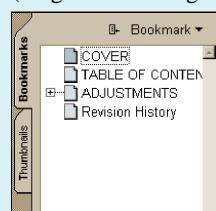
Moving with link

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.

Revision History

Ver.	Date	History	Contents	S.M. Rev. issued
1.0	2003.12	Official Release	—	—
1.1	2005.10	Correction-1	<ul style="list-style-type: none">• Correction of repair parts list <p>S.M. correction: Page 5-16</p>	Yes