

DSC-H7/H9

SERVICE MANUAL

LEVEL 3

Ver 1.1 2007.05

Revision History

Revised-1

Replace the previously issued
SERVICE MANUAL 9-852-203-11
with this Manual.

Internal memory
ON BOARD



Photo: DSC-H7 Black Model

[US Model](#)
[Canadian Model](#)
[AEP Model](#)
[UK Model](#)
[E Model](#)
[Australian Model](#)
[Hong Kong Model](#)
[Chinese Model](#)
[Korea Model](#)
[Argentine Model](#)
[Brazilian Model](#)
[Tourist Model](#)
[Japanese Model](#)

Link

- | | |
|--------------------------------------|---|
| • SERVICE NOTE | • PRINTED WIRING BOARDS |
| • SCHEMATIC DIAGRAMS | • REPAIR PARTS LIST |

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.

DIGITAL STILL CAMERA

SONY®

Model information table

Model	DSC-H7/Silver	DSC-H7/Black	DSC-H9/Silver	DSC-H9/Black
Destination	US, CND, AEP, UK, E, AUS, HK, CH, KR, AR, J, JE	US, CND, AEP, UK, E, AUS, HK, CH, KR, J, JE	US, CND, AEP, UK, E, AUS, HK, CH, KR, JE	US, CND, AEP, UK, E, AUS, HK, CH, KR, AR, BR, JE
LCD	2.5 inch	2.5 inch	3.0 inch	3.0 inch
CK board	CK-180, CK-181	CK-180, CK-181	CK-179, CK-182	CK-179, CK-182
MS board	MS-364	MS-364	MS-366	MS-366
PL board	PL-046	PL-046	PL-047	PL-047
SW board	SW-500	SW-500	SW-499	SW-499

- Abbreviation

AR : Argentine model
 AUS : Australian model
 BR : Brazilian model
 CH : Chinese model
 CND : Canadian model
 HK : Hong Kong model
 J : Japanese model
 JE : Tourist model
 KR : Korea model

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.

- Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
- Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
- Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
- Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
- Check the B+ voltage to see it is at the values specified.
- 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.

TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>
1. SERVICE NOTE		
1-4. Method for Copying or Erasing the Data in Internal Memory		1-2
4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS		
4-2. Schematic Diagrams		4-2
4-3. Printed Wiring Boards		4-22
4-4. Mounted Parts Location		4-30
5. REPAIR PARTS LIST		
5-2. Electrical Parts List		5-11

1. SERVICE NOTE

1-4. METHOD FOR COPYING OR ERASING THE DATA IN INTERNAL MEMORY

The data can be copied/erased by the operations on the HOME screen. (When erasing the data, execute formatting the internal memory.)

Note: When replacing the SY-177 board, erase the data in internal memory of the board before replacement.

Method for Copying the Data in Internal Memory

Copy

Copies all images in the internal memory to a “Memory Stick Duo”.

- ① Insert a “Memory Stick Duo” having 32 MB or larger capacity.
- ② Select [Copy] with $\Delta/\nabla/\blacktriangle/\blacktriangleright$ on the control button, then press ●.
The message “All data in internal memory will be copied” appears.
- ③ Select [OK] with \blacktriangle , then press ●.
Copying starts.

To cancel the copying

Select [Cancel] in step ③, then press ●.

- Use a fully charged battery pack. If you attempt to copy image files using a battery pack with little remaining charge, the battery pack may run out, causing copying to fail or possibly corrupting the data.
- You cannot copy individual images.
- The original images in the internal memory are retained even after copying. To delete the contents of the internal memory, remove the “Memory Stick Duo” after copying, then execute the [Format] command in [Internal Memory Tool].
- When you copy the data in the internal memory to the “Memory Stick Duo”, all the data will be copied. You cannot choose a specific folder on the “Memory Stick Duo” as the destination for the data to be copied.
- Even if you copy data, a DPOF (Print order) mark is not copied.

Method for Formatting the Internal Memory

This item does not appear when a “Memory Stick Duo” is inserted in the camera.

Format

Formats the internal memory.

- Note that formatting irrevocably erases all data in the internal memory, including even protected images.
- ① Select [Format] with $\Delta/\nabla/\blacktriangle/\blacktriangleright$ on the control button, then press ●.
The message “All data in internal memory will be erased” appears.
 - ② Select [OK] with \blacktriangle , then press ●.
The format is completed.

To cancel the formatting

Select [Cancel] in step ②, then press ●.

4-2. SCHEMATIC DIAGRAMS

Link

• SY-177 BOARD (1/7) (LENS DRIVE)	• SY-177 BOARD (6/7) (VIDEO/AUDIO AMP)
• SY-177 BOARD (2/7) (CAMERA A/D CONV.)	• SY-177 BOARD (7/7) (PITCH/YAW SENSOR AMP)
• SY-177 BOARD (3/7) (CAMERA DSP/SYSTEM CONTROL(1))	• DD-272 BOARD (1/3) (DC-DC CONVERTER)
• SY-177 BOARD (4/7) (CAMERA DSP/SYSTEM CONTROL(2))	• DD-272 BOARD (2/3) (DC-DC CONVERTER, SYSTEM CONTROL)
• SY-177 BOARD (5/7) (CAMERA DSP/SYSTEM CONTROL(3))	• DD-272 BOARD (3/3) (FLASH/CHARGE CONTROL)

- COMMON NOTE FOR SCHEMATIC DIAGRAMS

4-2. SCHEMATIC DIAGRAMS

4. PRINTED WIRING BOARDS AND 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 TA A	L452 10UH 2520
Kinds of capacitor		External dimensions (mm)

Case size

- 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.
- : not use circuit

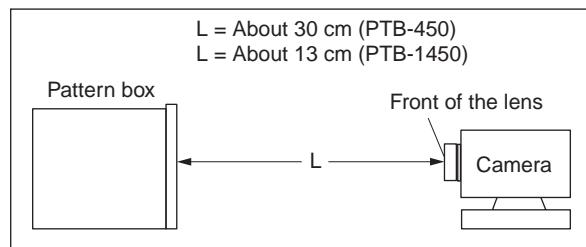
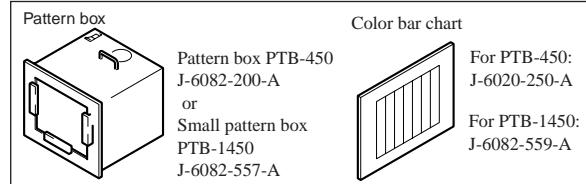
(Measuring conditions voltage and waveform)

- Voltages 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 MΩ input impedance is used)
- Voltage values change depending upon input impedance of VOM used.)

Precautions for Replacement of Imager

- If the imager has been replaced, carry out all the adjustments for the camera section.
- As the imager may be damaged by static electricity from its structure, handle it carefully like for the MOS IC.
In addition, ensure that the receiver is not covered with dusts nor exposed to strong light.

1. Connection



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

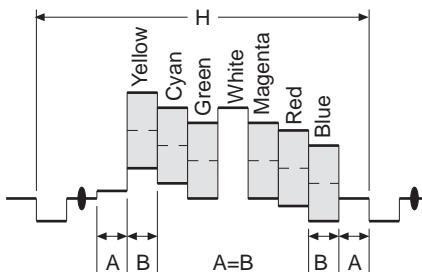


Fig. a (Video output terminal output waveform)

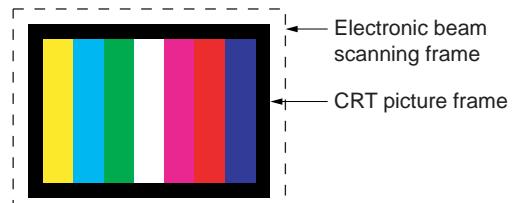


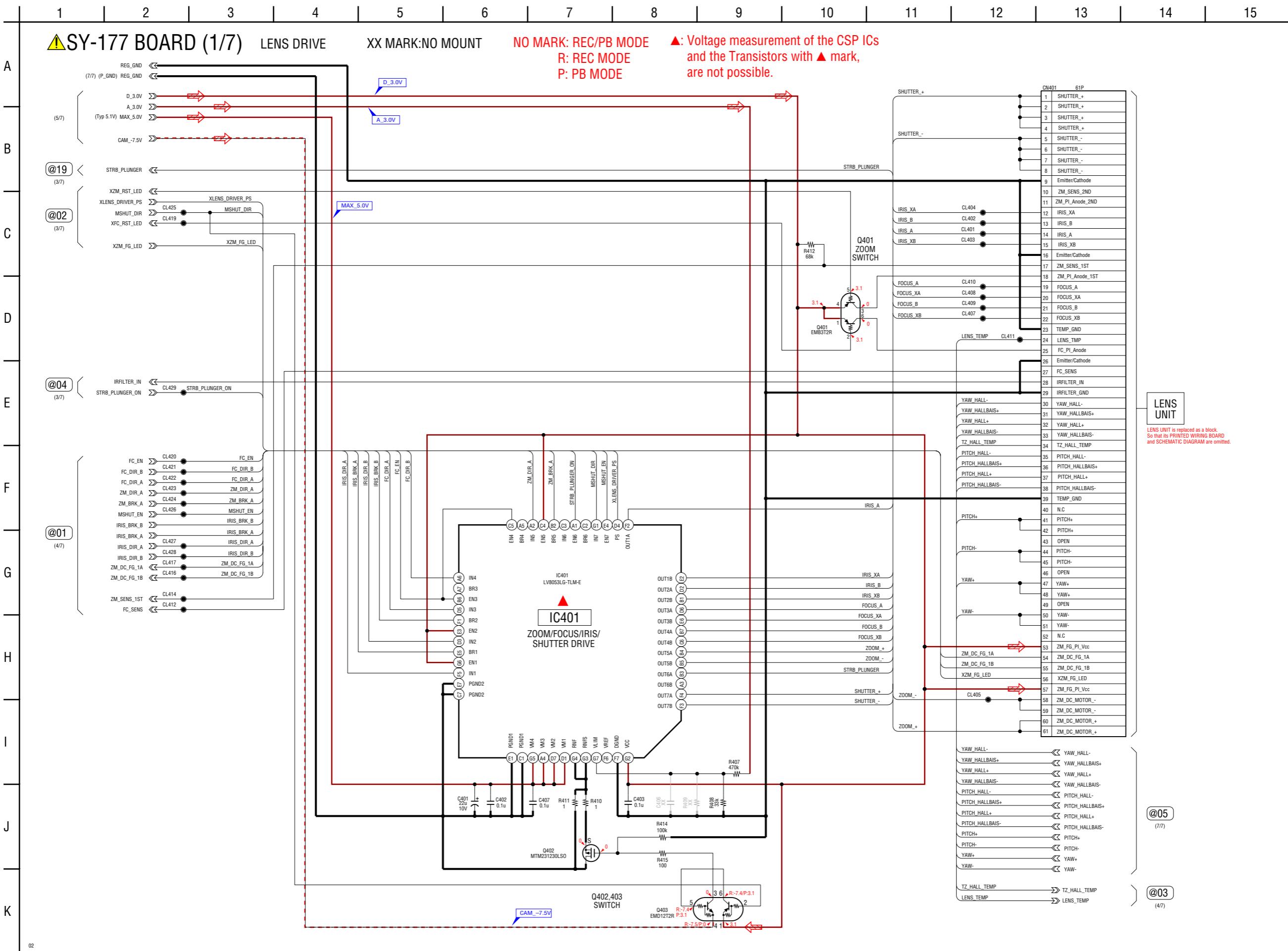
Fig.b (Picture on monitor TV)

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

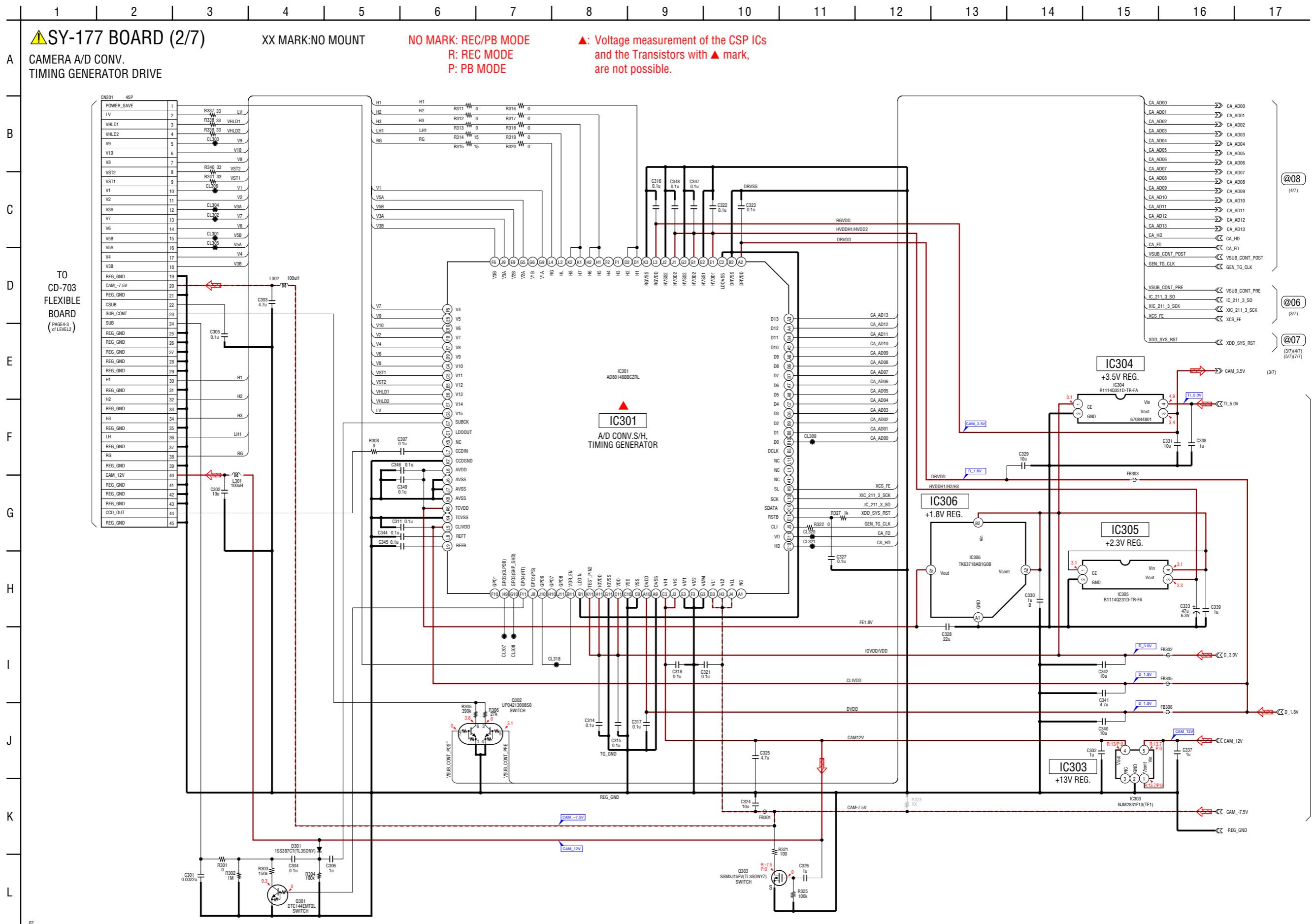
The components identified by mark or dotted line with mark are critical for safety.
Replace only with part number specified.

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

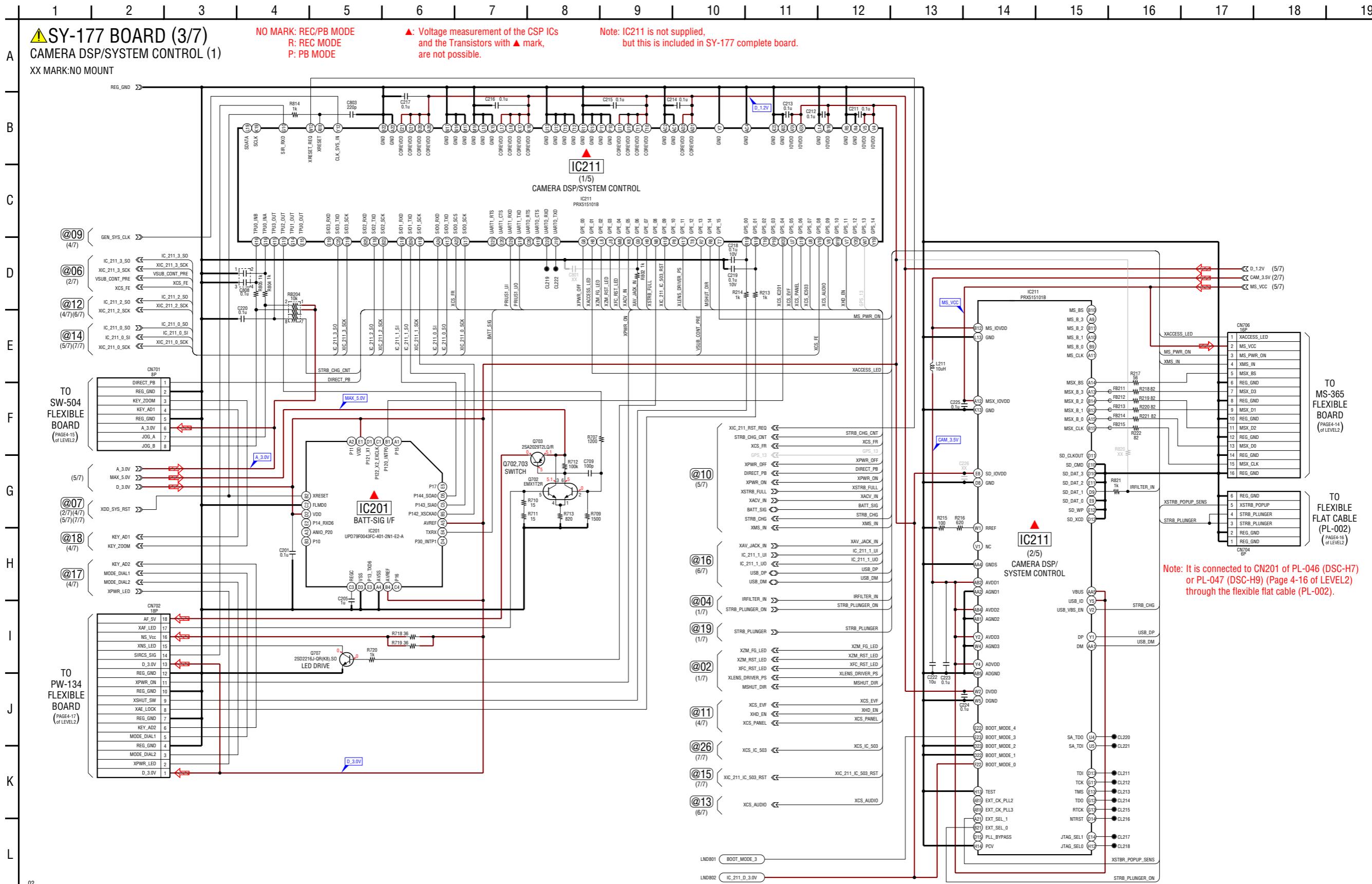
• Refer to page 4-2 for mark ▲.



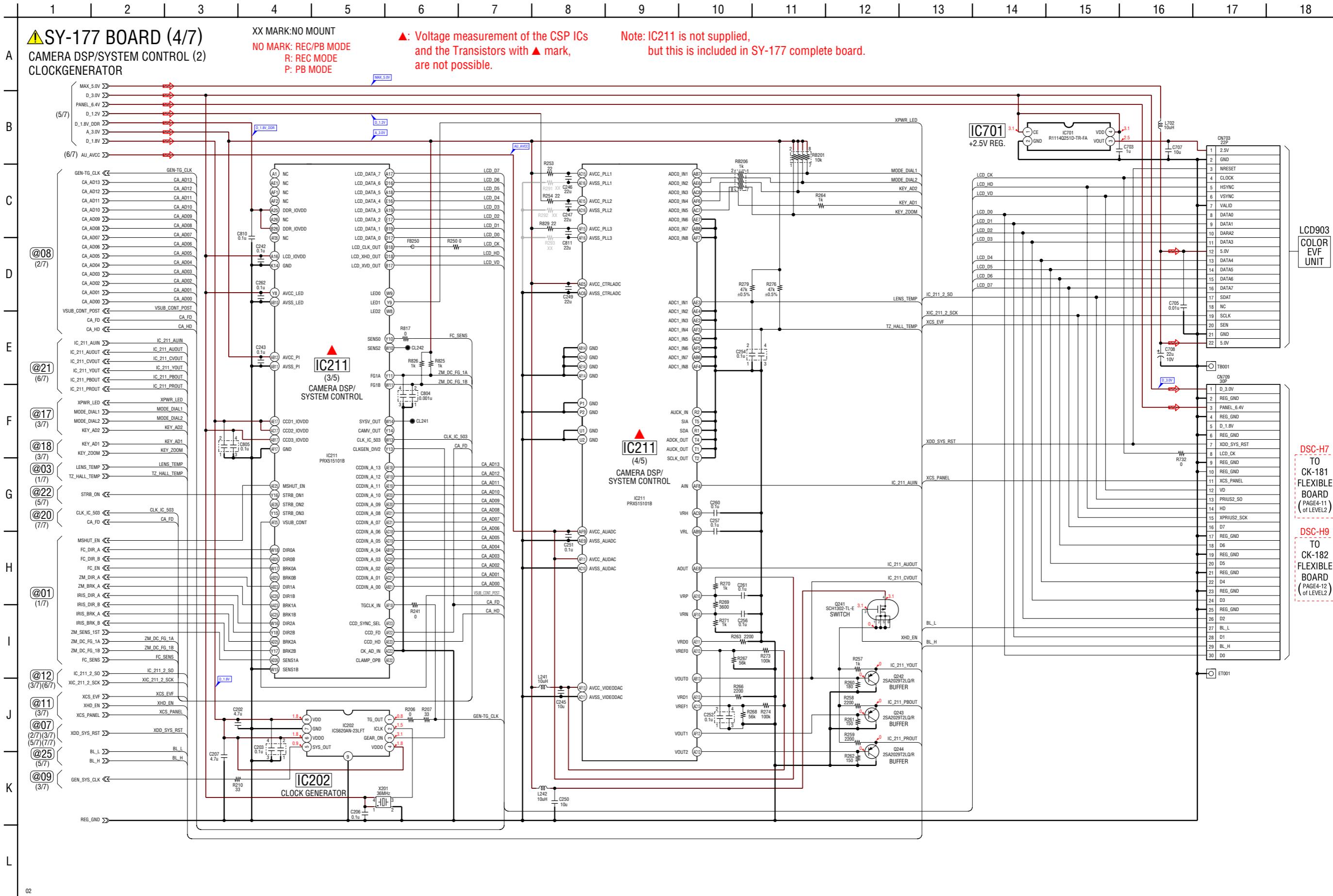
- Refer to page 4-2 for mark .



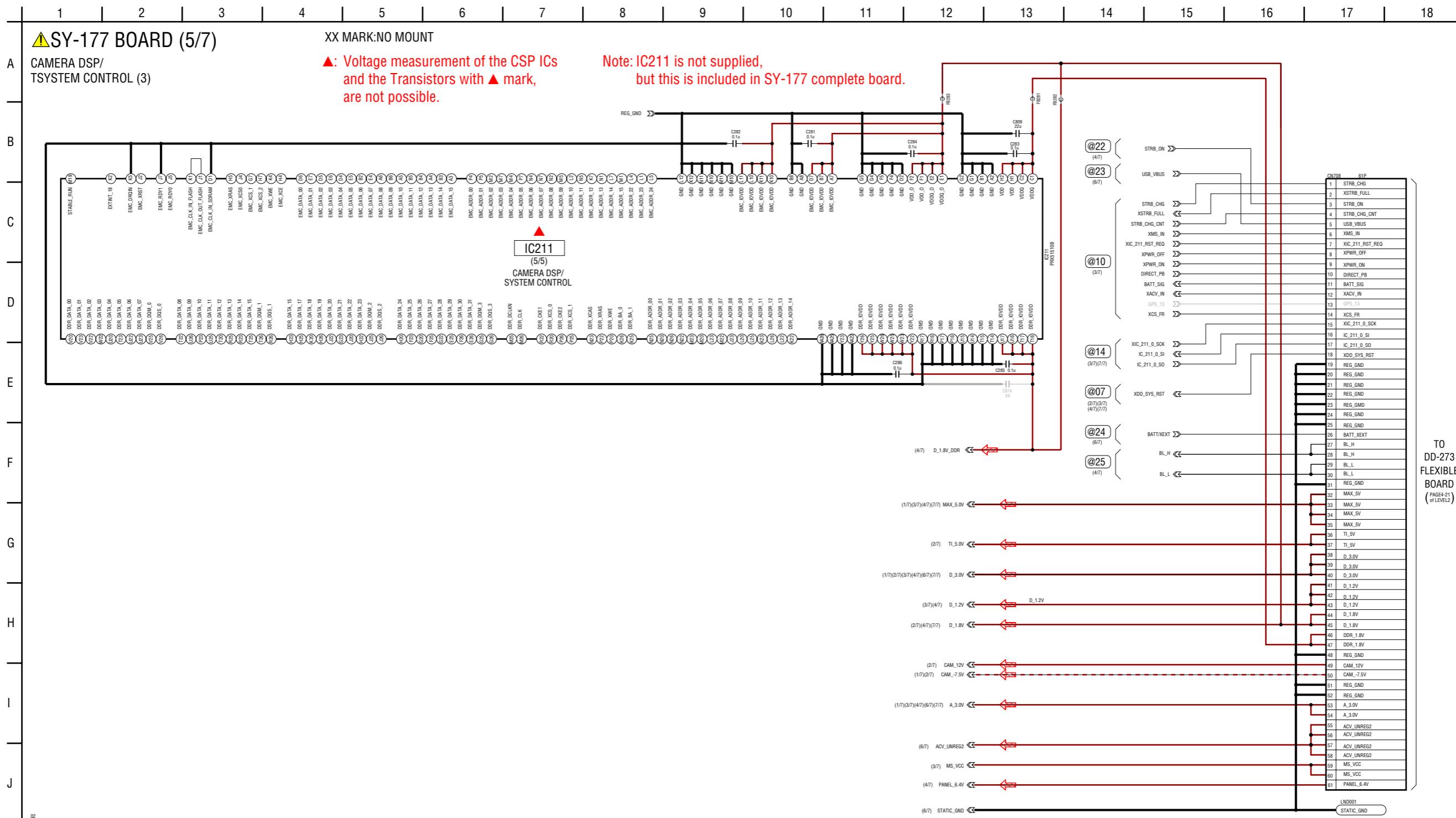
- Refer to page 4-2 for mark .



• Refer to page 4-2 for mark ▲.

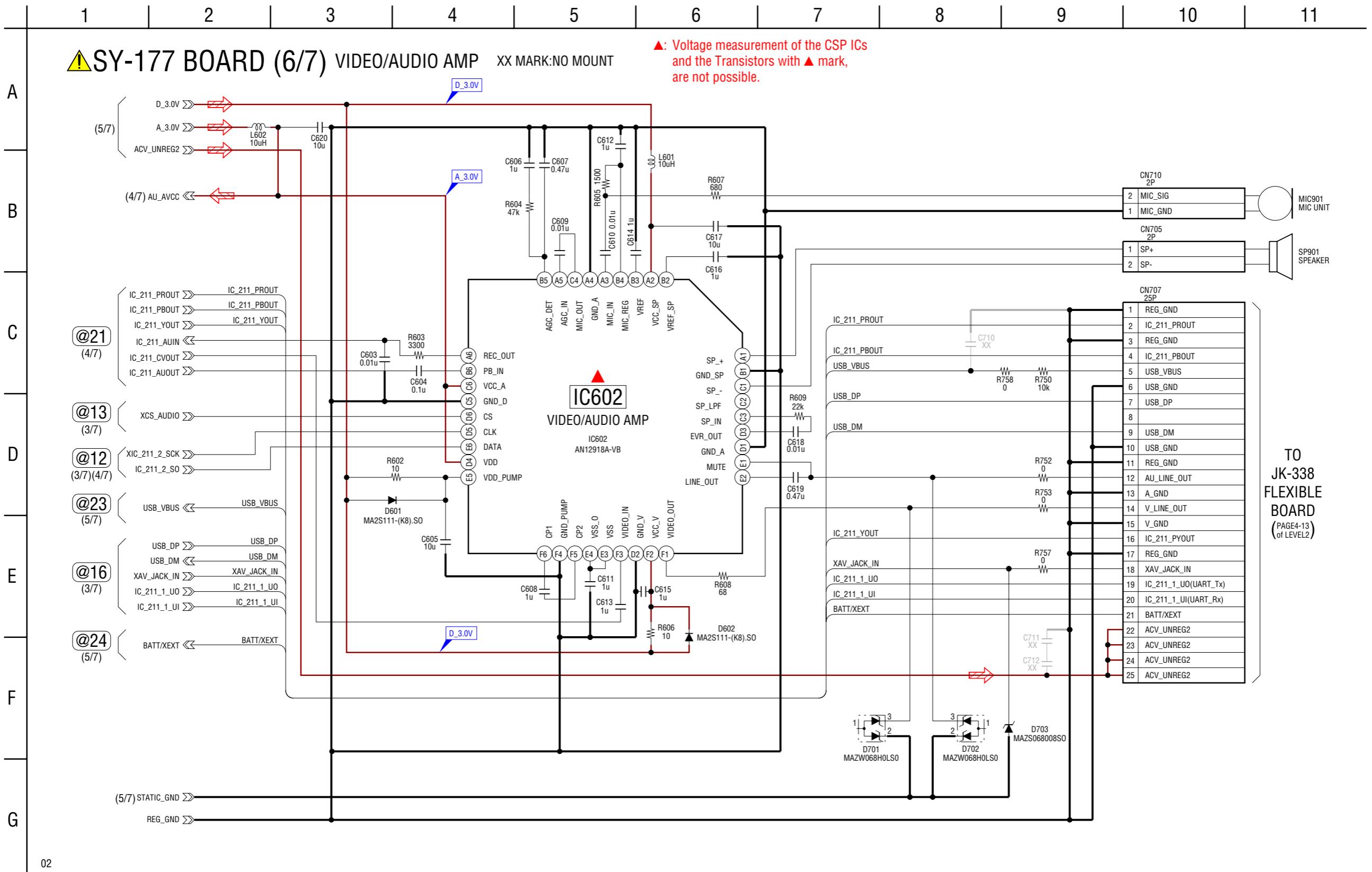


- Refer to page 4-2 for mark △.

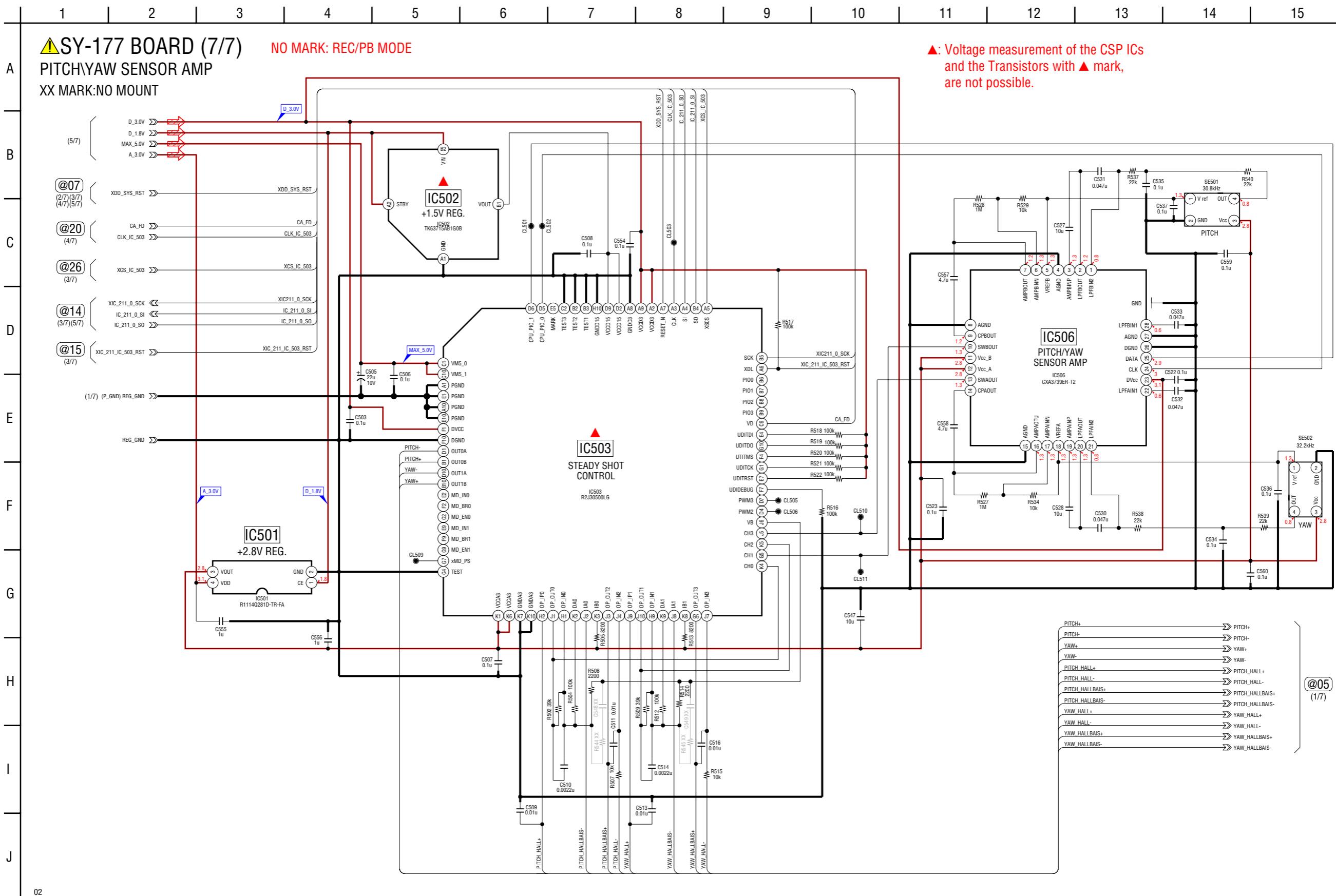


DSC-H7/H9_L3

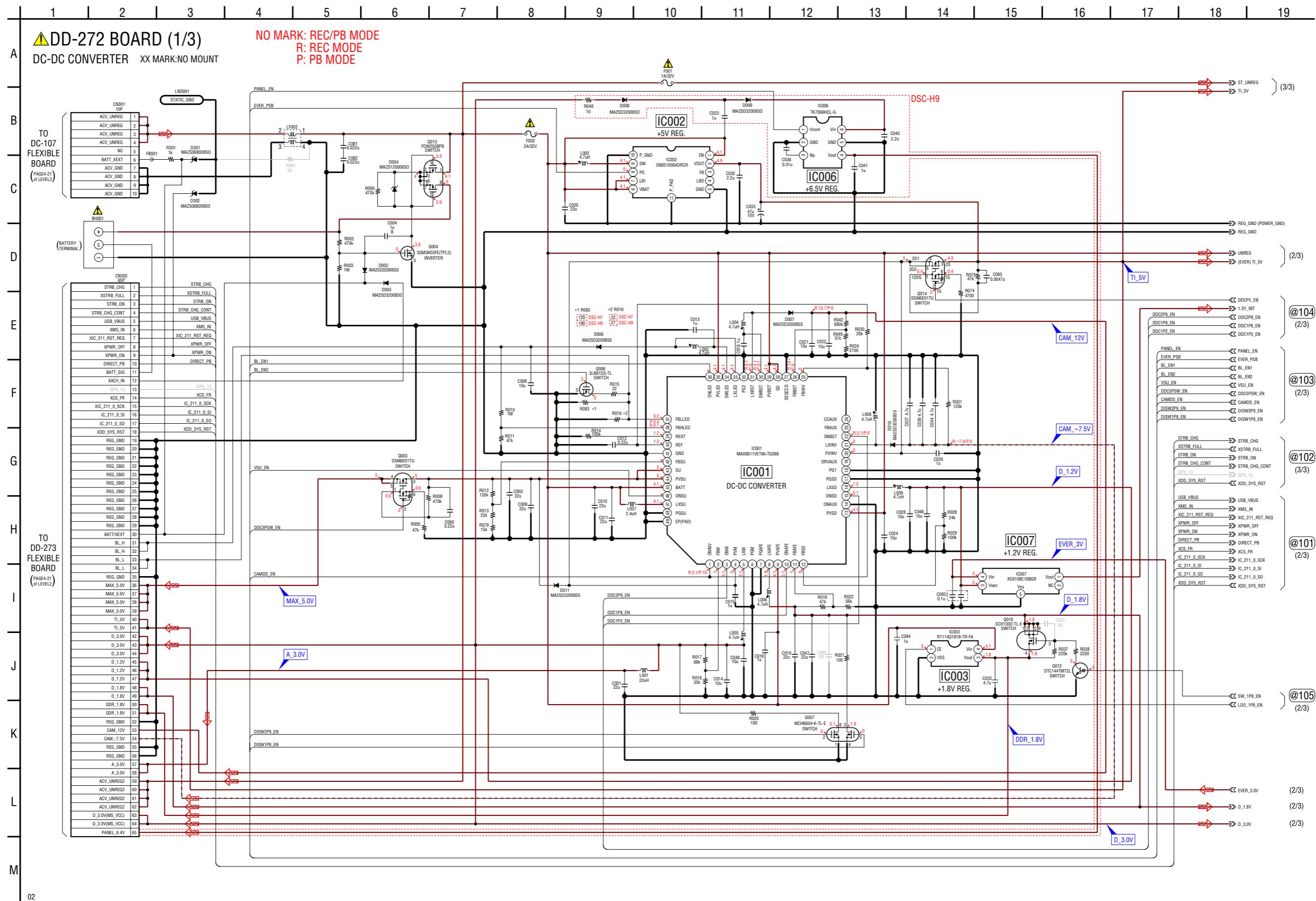
• Refer to page 4-2 for mark ▲.



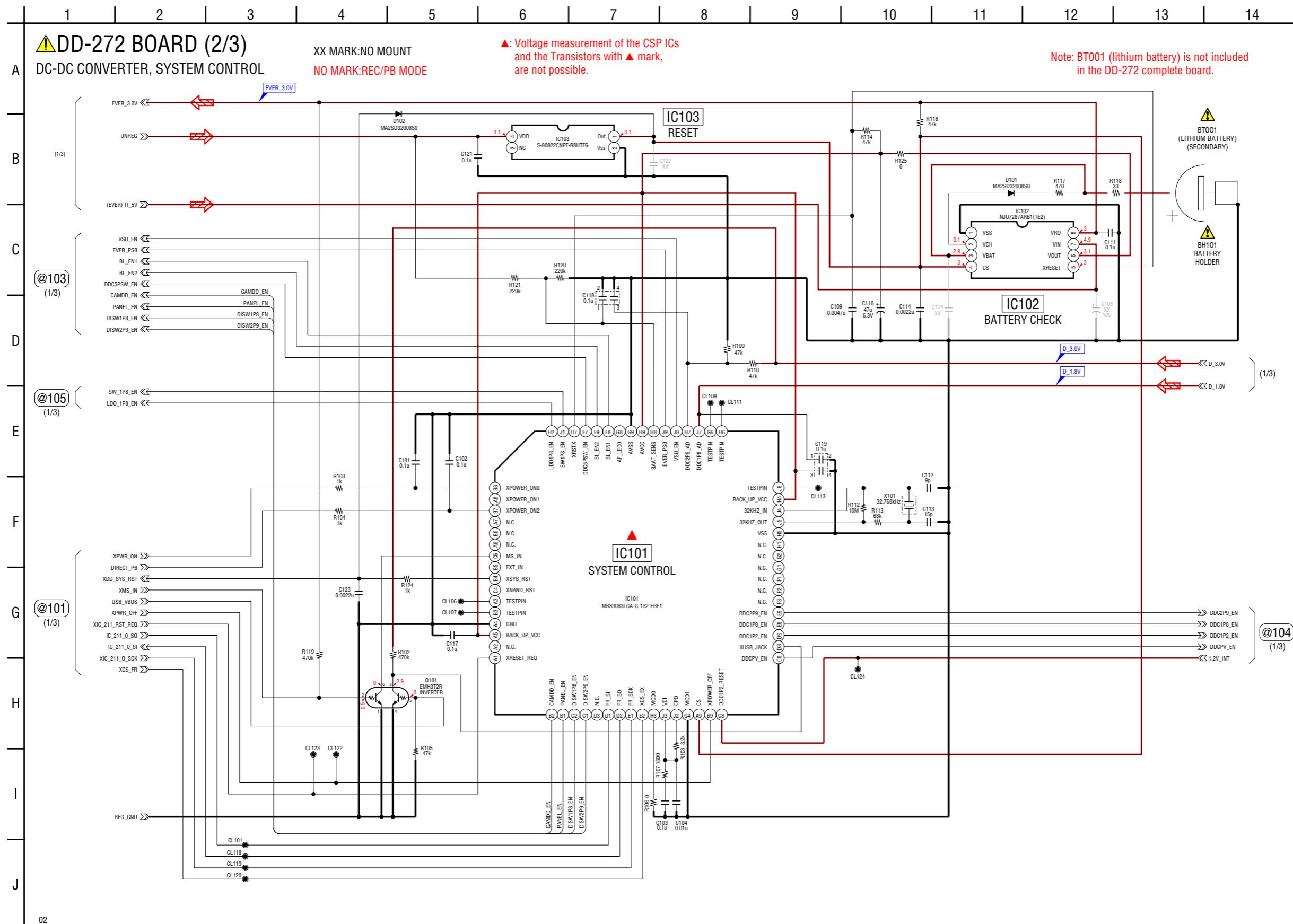
• Refer to page 4-2 for mark ▲.



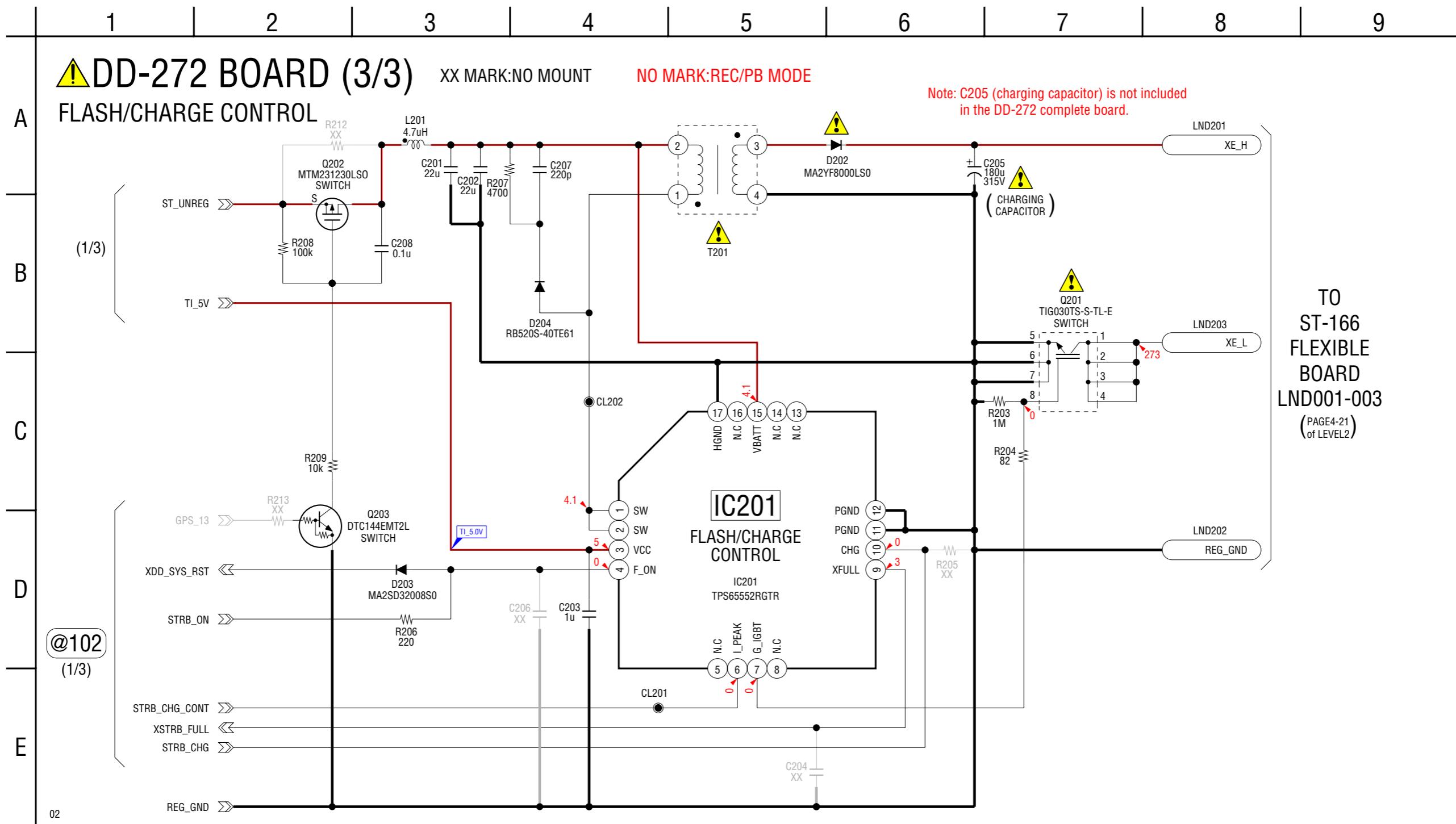
• Refer to page 4-2 for mark △.



- Refer to page 4-2 for mark △.



• Refer to page 4-2 for mark △.



4-3. PRINTED WIRING BOARDS

Link

• SY-177 BOARD

• DD-272 BOARD

• COMMON NOTE FOR PRINTED WIRING BOARDS

• MOUNTED PARTS LOCATION

4-3. PRINTED WIRING BOARDS

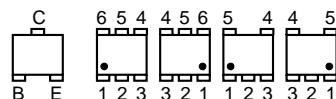
4-3. PRINTED WIRING BOARDS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS

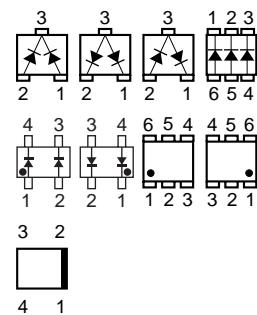
- : Uses unleaded solder.
- : Circuit board
- : Flexible board
- Pattern from the side which enables seeing.
 : pattern of the rear side
(The other layers' patterns are not indicated)
- Through hole is omitted.
- There are a few cases that the part printed on diagram isn't mounted in this model.
- :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

- Chip parts.

Transistor



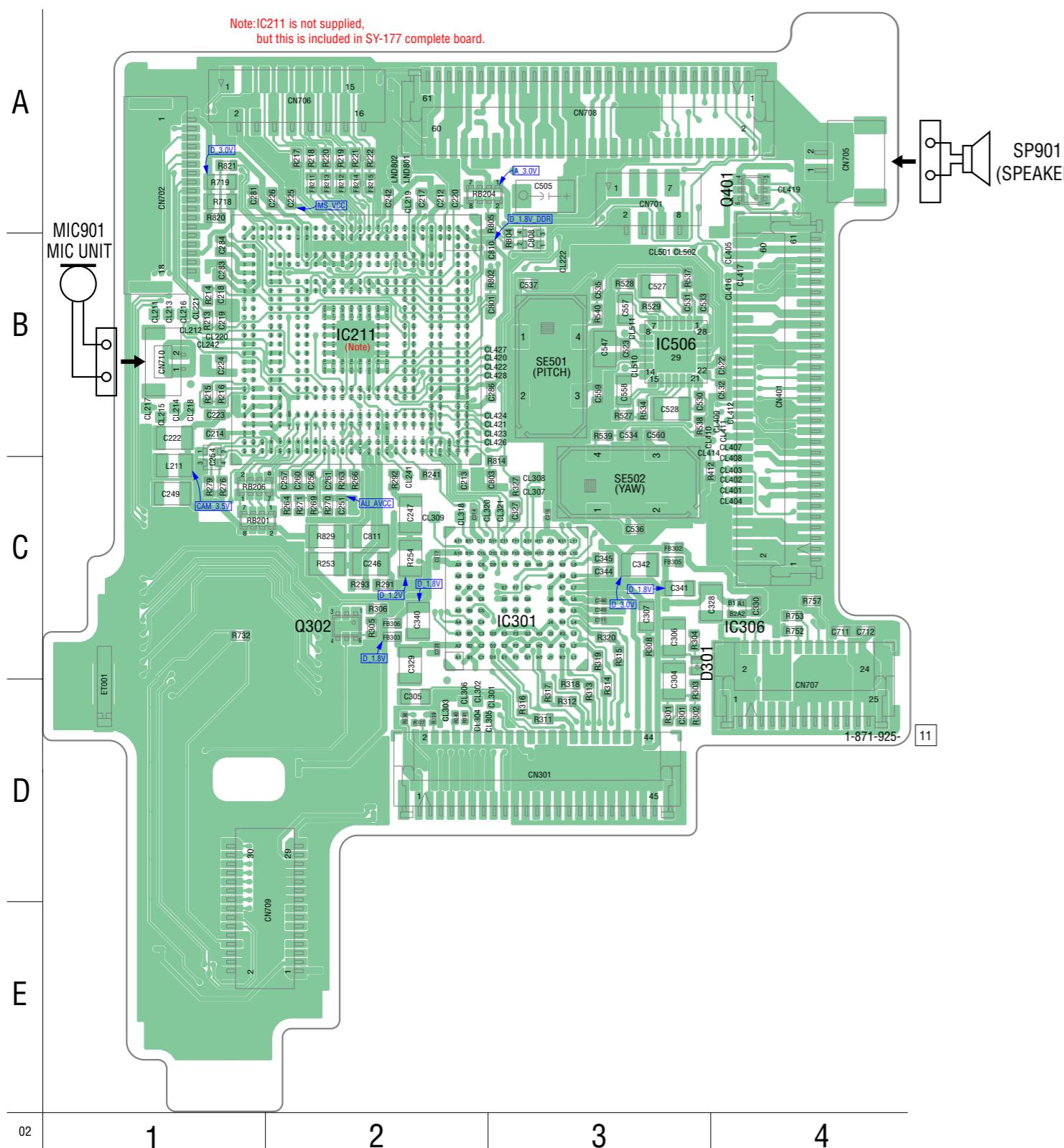
Diode



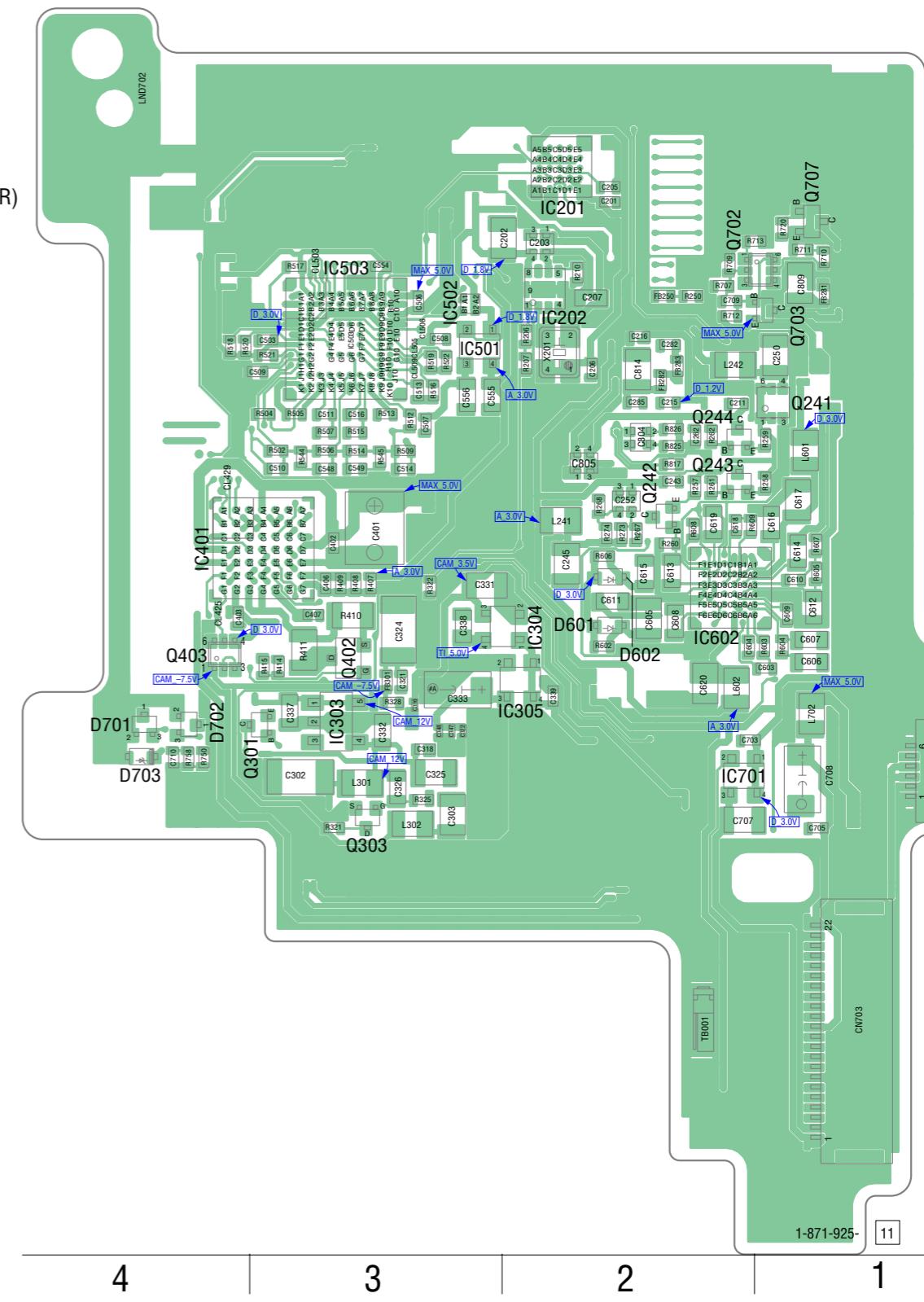
SY-177 (8 layers)

 : Uses unleaded solder.

SY-177 BOARD (SIDE A)



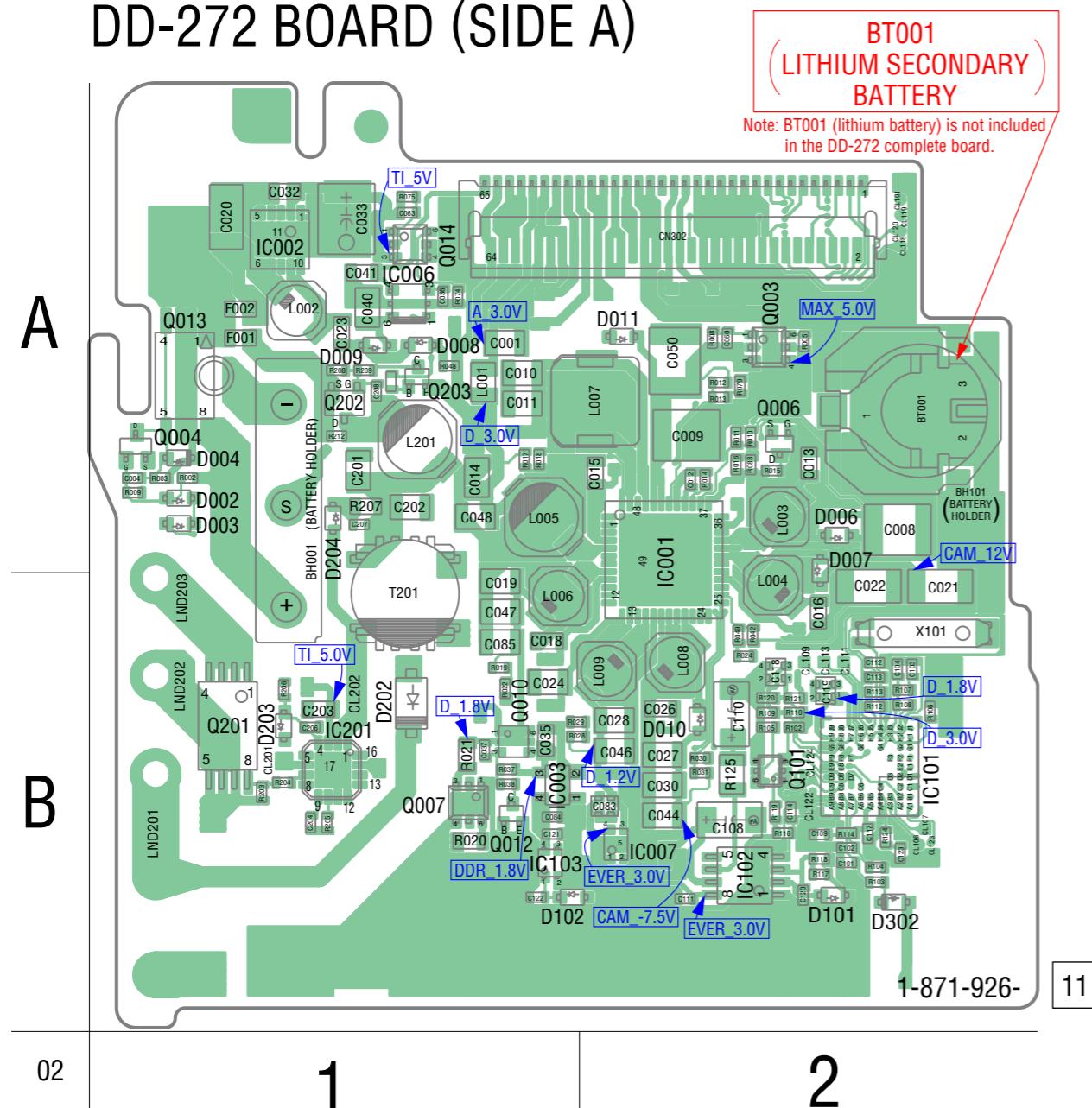
SY-177 BOARD (SIDE B)



DD-272 (6 layers)

 : Uses unleaded solder.

DD-272 BOARD (SIDE A)



4-3. PRINTED WIRING BOARDS

4-4. MOUNTED PARTS LOCATION

no mark : side A
 * mark : side B

DD-272 BOARD

BH001	A-1	F001	A-1
BH101	A-2	F002	A-1
BT001	A-2		
		* FB001	B-1
C001	A-1	R114	B-2
C004	A-1	R116	B-2
C008	A-2	R117	B-2
C009	A-2	R118	B-2
C010	A-1	R119	B-2
C011	A-1	R120	B-2
C012	A-2	R121	B-2
C013	A-2	R124	B-2
C014	A-1	R125	B-2
C015	A-2	R203	B-1
C016	B-2	R204	B-1
C018	B-1	R206	B-1
C019	B-1	R207	A-1
C020	A-1	R208	A-1
C022	B-2	R209	A-1
C023	A-1	L001	A-1
C024	B-1	L002	A-1
C026	B-2	L003	A-2
C027	B-2	L004	B-2
C028	B-2	L005	A-1
C030	B-2	L006	B-1
C032	A-1	L007	A-2
C035	B-1	L008	B-2
C036	A-1	L009	B-2
C040	A-1	L201	A-1
C041	A-1	X101	B-2
C044	B-2		
C046	B-2		
C047	B-1		
C048	A-1		
C050	A-2		
C060	A-2		
C063	A-1		
* C081	B-1		
* C082	B-1		
C083	B-2	R002	A-1
C084	B-1	R003	A-1
C101	B-2	R005	A-2
C102	B-2	R008	A-2
C103	B-2	R009	A-1
C104	B-2	R010	A-2
C109	B-2	R011	A-2
C110	B-2	R012	A-2
C111	B-2	R013	A-2
C112	B-2	R014	A-2
C113	B-2	R015	A-2
C114	B-2	R016	A-2
C117	B-2	R017	A-1
C118	B-2	R018	A-1
C119	B-2	R019	B-1
C121	B-1	R020	B-1
C123	B-2	R021	B-1
C201	A-1	R022	B-1
C202	A-1	R024	B-2
C203	B-1	R028	B-1
* C205	A-1	R029	B-1
C207	A-1	R030	B-2
C208	A-1	R031	B-2
		R037	B-1
* CN301	B-1	R038	B-1
CN302	A-2	R042	B-2
		R048	A-1
D002	A-1	R049	B-2
D003	A-1	R074	A-1
D004	A-1	R075	A-1
D006	A-2	R079	A-2
D007	A-2	R083	A-2
D008	A-1	R102	B-2
D009	A-1	R103	B-2
D010	B-2	R104	B-2
D011	A-2	R105	B-2
D101	B-2	R106	B-2
D102	B-1	R107	B-2
D202	B-1	R108	B-2
D203	B-1	R109	B-2
D204	A-1	R110	B-2
* D301	A-1	R112	B-2
D302	B-2	R113	B-2

SY-177 BOARD

DSC-N2_L3

4-3. PRINTED WIRING BOARDS

SY-177 BOARD

no mark : side A
* mark : side B

* R273	C-2	R805	A-3
* R274	C-2	R814	C-3
R276	C-1	* R817	B-2
R279	C-1	R821	A-1
R301	D-3	* R825	B-2
R302	D-3	* R826	B-2
R303	D-3	R829	C-2
R304	C-3		
R305	C-2	RB-201	C-1
R306	C-2	RB-204	A-2
R308	C-3	RB-206	C-1
R311	D-3		
R312	D-3	SE501	B-3
R313	D-3	SE502	C-3
R314	D-3		
R315	C-3	* TB001	E-2
R316	D-3		
R317	D-3	* X201	B-2
R318	D-3		
R319	C-3		
R320	C-3		
* R321	D-3		
* R322	C-3		
* R325	D-3		
R327	C-3		
R337	D-2		
R338	D-2		
R339	D-2		
R340	D-2		
R341	D-2		
* R407	C-3		
* R408	C-3		
* R410	C-3		
* R411	C-3		
R412	C-4		
* R414	C-3		
* R415	C-3		
* R502	B-3		
* R504	B-3		
* R505	B-3		
* R506	B-3		
* R507	B-3		
* R509	B-3		
* R512	B-3		
* R513	B-3		
* R514	B-3		
* R515	B-3		
* R516	B-3		
* R517	B-3		
* R518	B-4		
* R519	B-3		
* R520	B-4		
* R521	B-3		
* R522	B-3		
R527	B-3		
R528	B-3		
R529	B-3		
R534	B-3		
R537	B-3		
R538	B-3		
R539	B-3		
R540	B-3		
* R602	C-2		
* R603	C-1		
* R604	C-1		
* R605	C-1		
* R606	C-2		
* R607	C-1		
* R608	C-2		
* R609	C-2		
* R707	B-2		
* R709	B-2		
* R710	A-1		
* R711	A-1		
* R712	B-2		
* R713	A-1		
R718	A-1		
R719	A-1		
* R720	A-1		
R732	C-1		
* R750	C-4		
R752	C-4		
R753	C-4		
R757	C-4		
* R758	C-4		
R802	B-3		
R804	B-3		

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..., μ PC..., μ PC...,
uPD..., μ PD...
- Abbreviation
 - AR : Argentine model
 - AUS : Australian model
 - BR : Brazilian model
 - CH : Chinese model
 - CND : Canadian model
 - HK : Hong Kong model
 - J : Japanese model
 - JE : Tourist model
 - KR : Korea 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-1251-444-A	DD-272 BOARD, COMPLETE (H7)
▲	A-1251-454-A	DD-272 BOARD, COMPLETE (H9)
***** (BT001 (lithium battery) and C205 are not included in DD-272 complete board.)		
< BATTERY TERMINAL BOARD >		
▲ BH001	1-780-061-21	BATTERY TERMINAL BOARD
< BATTERY HOLDER >		
▲ BH101	1-756-615-31	HOLDER, BATTERY (Note)
< BATTERY >		
▲ BT001	1-756-134-12	BATTERY, STRAGE, LITHIUM ION (Note)
< CAPACITOR >		
C001	1-100-611-91	CERAMIC CHIP
C004	1-112-717-91	CERAMIC CHIP
C008	1-135-960-91	CERAMIC CHIP
C009	1-100-055-21	CERAMIC CHIP
C010	1-100-611-91	CERAMIC CHIP
C011	1-100-611-91	CERAMIC CHIP
C012	1-165-887-91	CERAMIC CHIP
C013	1-165-908-11	CERAMIC CHIP
C014	1-165-989-11	CERAMIC CHIP
C015	1-165-908-11	CERAMIC CHIP
C016	1-165-908-11	CERAMIC CHIP
C018	1-165-908-11	CERAMIC CHIP
C019	1-100-611-91	CERAMIC CHIP
C020	1-100-159-91	CERAMIC CHIP
C021	1-100-672-11	CERAMIC CHIP
C022	1-100-672-11	CERAMIC CHIP
C023	1-165-908-11	CERAMIC CHIP
C024	1-165-989-11	CERAMIC CHIP
C026	1-165-908-11	CERAMIC CHIP
C027	1-100-670-11	CERAMIC CHIP
C028	1-165-989-11	CERAMIC CHIP
C030	1-100-670-11	CERAMIC CHIP
C032	1-165-884-91	CERAMIC CHIP
* C033	1-112-662-91	TANTAL. CHIP
C035	1-112-746-11	CERAMIC CHIP
C036	1-100-567-81	CERAMIC CHIP
C040	1-125-889-91	CERAMIC CHIP
C041	1-165-908-11	CERAMIC CHIP
C044	1-100-670-11	CERAMIC CHIP
C046	1-165-989-11	CERAMIC CHIP
C047	1-100-611-91	CERAMIC CHIP
C048	1-165-989-11	CERAMIC CHIP
C050	1-100-055-21	CERAMIC CHIP
C060	1-165-887-91	CERAMIC CHIP
C063	1-100-581-81	CERAMIC CHIP
C081	1-107-819-11	CERAMIC CHIP
C082	1-107-819-11	CERAMIC CHIP
C083	1-100-252-11	CERAMIC CHIP
C084	1-112-717-91	CERAMIC CHIP
C101	1-125-777-11	CERAMIC CHIP
C102	1-125-777-11	CERAMIC CHIP

• Refer to page 5-1 for mark ▲.

Ref. No.	Part No.	Description
C103	1-125-777-11	CERAMIC CHIP
C104	1-100-567-81	CERAMIC CHIP
C109	1-100-581-81	CERAMIC CHIP
C110	1-100-539-91	TANTAL. CHIP
C111	1-125-777-11	CERAMIC CHIP
C112	1-164-849-11	CERAMIC CHIP
C113	1-164-854-11	CERAMIC CHIP
C114	1-164-939-11	CERAMIC CHIP
C117	1-125-777-11	CERAMIC CHIP
C118	1-100-252-11	CERAMIC CHIP
C119	1-100-252-11	CERAMIC CHIP
C121	1-125-777-11	CERAMIC CHIP
C123	1-164-939-11	CERAMIC CHIP
C201	1-100-611-91	CERAMIC CHIP
C202	1-100-611-91	CERAMIC CHIP
C203	1-165-908-11	CERAMIC CHIP
▲ C205	1-114-341-11	ALUMINUM ELECT
C207	1-164-933-11	CERAMIC CHIP
C208	1-125-777-11	CERAMIC CHIP
< CONNECTOR >		
CN301	1-779-329-51	CONNECTOR, FFC/FPC 10P
* CN302	1-820-967-11	CONNECTOR, FPC (ZIF) 65P
< DIODE >		
D002	6-500-813-01	DIODE MA2SD32008S0
D003	6-500-813-01	DIODE MA2SD32008S0
D004	8-719-056-59	DIODE MAZS120008S0
D006	6-500-813-01	DIODE MA2SD32008S0
D007	6-500-813-01	DIODE MA2SD32008S0
D008	6-500-813-01	DIODE MA2SD32008S0 (H9)
D009	6-500-813-01	DIODE MA2SD32008S0 (H9)
D010	6-500-813-01	DIODE MA2SD32008S0
D011	6-500-813-01	DIODE MA2SD32008S0
D101	6-500-813-01	DIODE MA2SD32008S0
D102	6-500-813-01	DIODE MA2SD32008S0
▲ D202	6-501-433-01	DIODE MA2YF8000LS0
D203	6-500-813-01	DIODE MA2SD32008S0
D204	6-500-619-01	DIODE RB520S-40TE61
D301	8-719-056-54	DIODE MAZS068008S0
D302	8-719-056-54	DIODE MAZS068008S0

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

注意
電池の交換は、正しく行わないと破裂する恐れがあります。電池を交換する場合には必ず同じ型名の電池又は同等品と交換してください。

Note: Replace the battery holder (BH101) together when replacing the lithium battery (BT001) on the DD-272 board. (The battery holder removed once cannot be used again.)
When mounting these parts, mount new battery holder first and attach new lithium battery next.

Note: DD-272基板のリチウム電池(BT001)を交換する場合はバッテリホルダ(BH101)も同時に新品に交換して下さい。(一度使用したバッテリホルダは再使用できません。)
部品取付けの際は、先にバッテリホルダを取付けてからリチウム電池を装着して下さい。

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>		<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	
< FUSE >							
△F001	1-576-612-21	FUSE (1A/32V)		R015	1-208-643-11	METAL CHIP	22
△F002	1-576-415-21	FUSE (2A/32V)		R016	1-208-643-11	METAL CHIP	22
< FERRITE BEAD >							
FB001	1-469-580-21	FERRITE	0uH	R016	1-220-880-81	METAL CHIP	27
< IC >							
* IC001	6-710-930-01	IC MAX8611VETM+TG069		R017	1-208-931-11	METAL CHIP	68K
* IC002	6-709-726-01	IC SN0510064DRCR		R018	1-208-923-11	METAL CHIP	33K
* IC003	6-710-854-01	IC R1114Q181B-TR-FA		R019	1-208-927-11	METAL CHIP	47K
* IC006	6-710-846-01	IC TK70664HCL-G (H9)		R020	1-216-809-11	METAL CHIP	100
* IC007	6-710-970-01	IC XC6108C10BGR		R021	1-216-809-11	METAL CHIP	100
* IC101	6-807-383-01	IC MB89083LGA-G-132-ERE1		R022	1-208-929-81	METAL CHIP	56K
* IC102	6-710-971-01	IC NJU7287ARB1 (TE2)		R024	1-218-958-11	RES-CHIP	2.7K
* IC103	6-711-152-01	IC S-80822CNPF-B8HTFG		R028	1-208-920-81	METAL CHIP	24K
IC201	6-707-555-01	IC TPS65552RGTR		R029	1-208-935-11	METAL CHIP	100K
< COIL >							
L001	1-400-676-11	INDUCTOR	22uH	R030	1-208-918-81	METAL CHIP	20K
L002	1-457-066-21	INDUCTOR	4.7uH	R031	1-218-978-11	RES-CHIP	120K
L003	1-457-066-21	INDUCTOR	4.7uH	R037	1-218-981-11	RES-CHIP	220K
L004	1-457-066-21	INDUCTOR	4.7uH	R038	1-218-957-11	RES-CHIP	2.2K
L005	1-456-995-22	INDUCTOR	4.7uH	R042	1-208-955-11	METAL CHIP	680K
L006	1-457-066-21	INDUCTOR	4.7uH	R048	1-218-929-11	RES-CHIP	10
* L007	1-457-436-21	COIL, CHOKE	2.4uH	R049	1-208-928-11	METAL CHIP	51K
L008	1-457-066-21	INDUCTOR	4.7uH	R074	1-218-961-11	RES-CHIP	4.7K
L009	1-457-066-21	INDUCTOR	4.7uH	R075	1-218-973-11	RES, CHIP	47K
L201	1-456-995-22	INDUCTOR	4.7uH	R079	1-208-711-11	METAL CHIP	15K
< LINE FILTER >							
* LF002	1-457-217-21	COMMON MODE CHOKE COIL		R083	1-208-661-11	METAL CHIP	120
< TRANSISTOR >							
Q003	6-550-576-01	TRANSISTOR SSM6E01TU		R083	1-208-869-11	METAL CHIP	180
Q004	8-729-047-68	TRANSISTOR SSM3K03FE (TPL3)		R102	1-218-985-11	RES-CHIP	470K
Q006	8-729-055-32	TRANSISTOR 3LN01SS-TL		R103	1-218-953-11	RES-CHIP	1K
Q007	6-550-674-01	TRANSISTOR MCH6604-K-TL-E		R104	1-218-953-11	RES-CHIP	1K
Q010	6-551-674-01	TRANSISTOR SCH1302-TL-E		R105	1-218-973-11	RES-CHIP	47K
Q012	6-550-243-01	TRANSISTOR DTC144TMT2L		R106	1-218-990-81	CONDUCTOR, CHIP	0
Q013	6-550-844-01	TRANSISTOR FDW2508P/GNL		R107	1-208-893-11	METAL CHIP	1.8K
Q014	6-550-576-01	TRANSISTOR SSM6E01TU		R108	1-218-964-11	RES-CHIP	8.2K
Q101	8-729-054-52	TRANSISTOR UP04216008S0		R109	1-208-927-81	METAL CHIP	100K
△Q201	6-551-686-01	TRANSISTOR TIG030TS-S-TL-E		R110	1-208-927-81	METAL CHIP	100K
Q202	6-551-304-01	TRANSISTOR MTM231230LS0		R112	1-245-604-11	METAL CHIP	10M
Q203	6-550-119-01	TRANSISTOR DTC144EMT2L		R113	1-218-975-11	RES-CHIP	68K
< RESISTOR >							
R002	1-218-985-11	RES-CHIP	470K	R114	1-218-973-11	RES-CHIP	47K
R003	1-218-989-11	RES-CHIP	1M	R116	1-218-973-11	RES-CHIP	47K
R005	1-218-973-11	RES-CHIP	47K	R117	1-218-949-11	RES-CHIP	470
R008	1-218-985-11	RES-CHIP	470K	R118	1-218-935-11	RES-CHIP	33
R009	1-218-985-11	RES-CHIP	470K	R119	1-218-985-11	RES-CHIP	470K
R010	1-218-989-11	METAL CHIP	1M	R120	1-208-943-11	METAL CHIP	220K
R011	1-208-927-11	METAL CHIP	47K	R121	1-208-943-11	METAL CHIP	220K
R012	1-208-939-11	METAL CHIP	150K	R124	1-218-953-11	RES-CHIP	1K
R013	1-208-715-11	METAL CHIP	22K	R125	1-216-295-91	SHORT CHIP	0
R014	1-208-935-11	METAL CHIP	100K	R203	1-218-989-11	RES-CHIP	1M
< TRANSFORMER >							
△T201	1-445-108-21	TRANSFORMER, D.C-D.C CONVERTER		R204	1-218-940-11	RES-CHIP	82
< VIBRATOR >							
X101	1-781-525-21	VIBRATOR, CRYSTAL (32.768kHz)		R206	1-218-945-11	RES-CHIP	220

• Refer to page 5-1 for mark △.

Ref. No.	Part No.	Description
△	A-1256-807-A	SY-177 BOARD, COMPLETE (SERVICE) (H7)
△	A-1256-808-A	SY-177 BOARD, COMPLETE (SERVICE) (H9)

(IC211 is not supplied, but this is included in SY-177 complete board.)

< CAPACITOR >

C201	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
C202	1-112-300-91	CERAMIC CHIP	4.7UF	10%	10V
C203	1-100-252-11	CERAMIC CHIP	0.1UF	10%	6.3V
C205	1-112-717-91	CERAMIC CHIP	1UF	10%	6.3V
C206	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
C207	1-112-746-11	CERAMIC CHIP	4.7UF	10%	6.3V
C211	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
C212	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
C213	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
C214	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
C215	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
C216	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
C217	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
C218	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
C219	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
C220	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
C222	1-165-989-11	CERAMIC CHIP	10UF	10%	6.3V
C223	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
C224	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
C225	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
C242	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
C243	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
C245	1-165-989-11	CERAMIC CHIP	10UF	10%	6.3V
C246	1-100-611-91	CERAMIC CHIP	22UF	20%	6.3V
C247	1-100-611-91	CERAMIC CHIP	22UF	20%	6.3V
C249	1-100-611-91	CERAMIC CHIP	22UF	20%	6.3V
C250	1-165-989-11	CERAMIC CHIP	10UF	10%	6.3V
C251	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
C252	1-100-252-11	CERAMIC CHIP	0.1UF	10%	6.3V
C254	1-100-252-11	CERAMIC CHIP	0.1UF	10%	6.3V
C256	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
C257	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
C260	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
C261	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
C262	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
C281	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
C282	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
C283	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
C284	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
C285	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
C286	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V
C301	1-164-939-11	CERAMIC CHIP	022UF	10%	50V
C302	1-100-672-11	CERAMIC CHIP	10UF	20%	16V
C303	1-100-670-11	CERAMIC CHIP	4.7UF	20%	16V
C304	1-115-339-11	CERAMIC CHIP	0.1UF	10%	50V
C305	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C306	1-100-591-91	CERAMIC CHIP	1UF	10%	25V
C307	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C311	1-112-716-11	CERAMIC CHIP	0.1UF	10%	6.3V
C314	1-112-716-11	CERAMIC CHIP	0.1UF	10%	6.3V
C315	1-112-716-11	CERAMIC CHIP	0.1UF	10%	6.3V
C316	1-112-716-11	CERAMIC CHIP	0.1UF	10%	6.3V

Ref. No.	Part No.	Description
C317	1-112-716-11	CERAMIC CHIP
C318	1-100-505-11	CERAMIC CHIP
C321	1-125-777-11	CERAMIC CHIP
C322	1-112-716-11	CERAMIC CHIP
C323	1-112-716-11	CERAMIC CHIP
C324	1-165-875-11	CERAMIC CHIP
C325	1-100-670-11	CERAMIC CHIP
C326	1-112-298-91	CERAMIC CHIP
C327	1-125-777-11	CERAMIC CHIP
C328	1-100-611-91	CERAMIC CHIP
C329	1-165-989-11	CERAMIC CHIP
C330	1-112-717-91	CERAMIC CHIP
C331	1-165-989-11	CERAMIC CHIP
C332	1-112-298-91	CERAMIC CHIP
C333	1-100-842-91	TANTAL. CHIP
C337	1-112-298-91	CCERAMIC CHIP
C338	1-165-908-11	CERAMIC CHIP
C339	1-112-717-91	CERAMIC CHIP
C340	1-165-989-11	CERAMIC CHIP
C341	1-112-746-11	CERAMIC CHIP
C342	1-165-989-11	CERAMIC CHIP
C344	1-125-777-11	CERAMIC CHIP
C345	1-125-777-11	CERAMIC CHIP
C346	1-112-716-11	CERAMIC CHIP
C347	1-112-716-11	CERAMIC CHIP
C348	1-112-716-11	CERAMIC CHIP
C349	1-112-716-11	CERAMIC CHIP
C401	1-100-663-11	TANTAL. CHIP
C402	1-125-777-11	CERAMIC CHIP
C403	1-125-777-11	CERAMIC CHIP
C407	1-125-777-11	CERAMIC CHIP
C503	1-125-777-11	CERAMIC CHIP
C505	1-165-897-11	TANTAL. CHIP
C506	1-125-777-11	CERAMIC CHIP
C507	1-125-777-11	CERAMIC CHIP
C508	1-125-777-11	CERAMIC CHIP
C509	1-100-567-81	CERAMIC CHIP
C510	1-164-939-11	CERAMIC CHIP
C511	1-100-567-81	CERAMIC CHIP
C513	1-100-567-81	CERAMIC CHIP
C514	1-164-939-11	CERAMIC CHIP
C516	1-100-567-81	CERAMIC CHIP
C522	1-125-777-11	CERAMIC CHIP
C523	1-125-777-11	CERAMIC CHIP
C527	1-165-989-11	CERAMIC CHIP
C528	1-165-989-11	CERAMIC CHIP
C530	1-119-923-11	CERAMIC CHIP
C531	1-119-923-11	CERAMIC CHIP
C532	1-119-923-11	CERAMIC CHIP
C533	1-119-923-11	CERAMIC CHIP
C534	1-125-777-11	CERAMIC CHIP
C535	1-125-777-11	CERAMIC CHIP
C536	1-125-777-11	CERAMIC CHIP
C537	1-125-777-11	CERAMIC CHIP
C547	1-165-989-11	CERAMIC CHIP
C554	1-125-777-11	CERAMIC CHIP
C555	1-165-908-11	CERAMIC CHIP
C556	1-165-908-11	CERAMIC CHIP

• Refer to page 5-1 for mark △.

Ref. No.	Part No.	Description				Ref. No.	Part No.	Description			
C557	1-112-746-11	CERAMIC CHIP	4.7UF	10%	6.3V						
C558	1-112-746-11	CERAMIC CHIP	4.7UF	10%	6.3V	ET001	1-694-766-21	TERMINAL (ONBOARD CONTACT)			
C559	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V			< FERRITE BEAD >			
C560	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V						
C603	1-164-943-81	CERAMIC CHIP	0.01UF	10%	16V	FB211	1-469-580-21	FERRITE	OUH		
C604	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V	FB212	1-469-580-21	FERRITE	OUH		
C605	1-165-989-11	CERAMIC CHIP	10UF	10%	6.3V	FB213	1-469-580-21	FERRITE	OUH		
C606	1-165-908-11	CERAMIC CHIP	1UF	10%	10V	FB214	1-469-580-21	FERRITE	OUH		
C607	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V	FB215	1-469-580-21	FERRITE	OUH		
C608	1-165-908-11	CERAMIC CHIP	1UF	10%	10V	FB250	1-481-250-11	FERRITE	OUH		
C609	1-100-567-81	CERAMIC CHIP	0.01UF	10%	25V	FB281	1-469-081-21	FERRITE	OUH		
C610	1-100-567-81	CERAMIC CHIP	0.01UF	10%	25V	FB282	1-469-580-21	FERRITE	OUH		
C611	1-165-908-11	CERAMIC CHIP	1UF	10%	10V	FB283	1-469-580-21	FERRITE	OUH		
C612	1-165-908-11	CERAMIC CHIP	1UF	10%	10V	FB301	1-400-331-11	FERRITE	OUH		
C613	1-165-908-11	CERAMIC CHIP	1UF	10%	10V	FB302	1-400-331-11	FERRITE	OUH		
C614	1-165-908-11	CERAMIC CHIP	1UF	10%	10V	FB303	1-400-331-11	FERRITE	OUH		
C615	1-165-908-11	CERAMIC CHIP	1UF	10%	10V	FB305	1-400-331-11	FERRITE	OUH		
C616	1-165-908-11	CERAMIC CHIP	1UF	10%	10V	FB306	1-400-331-11	FERRITE	OUH		
C617	1-165-989-11	CERAMIC CHIP	10UF	10%	6.3V			< IC >			
C618	1-100-567-81	CERAMIC CHIP	0.01UF	10%	25V						
C619	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V	* IC201	6-807-231-01	IC	uPD79F0043FC-401-2N1-E2-A		
C620	1-165-989-11	CERAMIC CHIP	10UF	10%	6.3V	* IC202	6-710-918-01	IC	ICS620AN-23LFT		
C703	1-112-717-91	CERAMIC CHIP	1UF	10%	6.3V	IC211	(Not supplied)	IC	PRX515101B		
C705	1-164-943-81	CERAMIC CHIP	0.01UF	10%	16V	* IC301	6-710-767-01	IC	AD80148BBCZRL		
C707	1-137-710-91	CERAMIC CHIP	10UF	20%	6.3V	* IC303	6-710-853-01	IC	NJM2831F13 (TE1)		
C708	1-165-897-11	TANTAL. CHIP	22UF	20%	10V	* IC304	6-708-448-01	IC	R1114Q351D-TR-FA		
C709	1-164-931-11	CERAMIC CHIP	100PF	10%	50V	* IC305	6-708-462-01	IC	R1114Q231D-TR-FA		
C803	1-164-933-11	CERAMIC CHIP	220PF	10%	50V	* IC306	6-710-847-01	IC	TK63718AB1G0B		
C804	1-100-246-11	CERAMIC CHIP	01UF	10%	50V	IC401	6-708-988-01	IC	LV8053LG-TLM-E		
C805	1-100-252-11	CERAMIC CHIP	0.1UF	10%	6.3V	* IC501	6-708-444-01	IC	R1114Q281D-TR-FA		
C808	1-100-252-11	CERAMIC CHIP	0.1UF	10%	6.3V	* IC502	6-709-769-01	IC	TK63715AB1G0B		
C809	1-100-611-91	CERAMIC CHIP	22UF	20%	6.3V	* IC503	6-709-026-01	IC	R2J30500LG		
C810	1-125-777-11	CERAMIC CHIP	0.1UF	10%	10V	IC506	8-753-276-73	IC	CXA3739ER-T2		
C811	1-100-611-91	CERAMIC CHIP	22UF	20%	6.3V	* IC602	6-709-313-01	IC	AN12918A-VB		
< CONNECTOR >						* IC701	6-708-464-01	IC	R1114Q251D-TR-FA		
* CN301	1-817-910-71	CONNECTOR, FPC (ZIF) 45P						< COIL >			
* CN401	1-817-357-71	CONNECTOR, FPC (ZIF) 61P				L211	1-469-757-21	INDUCTOR	10uH (2012)		
CN701	1-779-328-51	CONNECTOR, FFC/FPC 8P				L241	1-400-588-11	INDUCTOR, CHIP	10UH (2012)		
CN702	1-817-556-51	CONNECTOR, FFC/FPC 18P				L242	1-400-588-11	INDUCTOR, CHIP	10UH (2012)		
CN703	1-816-649-51	FFC/CONNECTOR, FPC (LIF) 22P				L301	1-400-678-11	INDUCTOR	100uH (2012)		
* CN704	1-817-554-51	CONNECTOR, FFC/FPC 6P				L302	1-400-678-11	INDUCTOR	100uH (2012)		
CN705	1-778-506-21	PIN, CONNECTOR (PC BOARD) 2P				L601	1-400-588-11	INDUCTOR, CHIP	10UH (2012)		
CN706	1-779-332-51	CONNECTOR, FFC/FPC 16P				L602	1-400-588-11	INDUCTOR, CHIP	10UH (2012)		
* CN707	1-817-562-71	CONNECTOR, FPC (ZIP) 25P				L702	1-400-588-11	INDUCTOR, CHIP	10UH (2012)		
* CN708	1-817-357-71	CONNECTOR, FPC (ZIF) 61P						< TRANSISTOR >			
CN709	1-778-591-21	CONNECTOR, BOARD TO BOARD 30P				Q241	6-551-674-01	TRANSISTOR	SCH1302-TL-E		
CN710	1-818-210-21	PIN, CONNECTOR 2P				Q242	6-550-232-01	TRANSISTOR	2SA2029T2LQ/R		
< DIODE >						Q243	6-550-232-01	TRANSISTOR	2SA2029T2LQ/R		
D301	6-501-106-01	DIODE 1SS387CT (TL3SONY)				Q244	6-550-232-01	TRANSISTOR	2SA2029T2LQ/R		
D601	8-719-056-23	DIODE MA2S111-(K8).SO				Q301	6-550-119-01	TRANSISTOR	DT144EMT2L		
D602	8-719-056-23	DIODE MA2S111-(K8).SO				Q302	8-729-054-47	TRANSISTOR	UP04213008S0		
D701	6-500-776-01	DIODE MAZW068HOLS0				Q303	6-550-791-01	TRANSISTOR	SSM3J15FV (TL3SONYZ)		
D702	6-500-776-01	DIODE MAZW068HOLS0				Q401	8-729-054-51	TRANSISTOR	UP04116008S0		
D703	8-719-056-54	DIODE MAZS068008SO				Q402	6-551-304-01	TRANSISTOR	MTM231230LS0		
< TERMINAL >						Q403	6-550-025-01	TRANSISTOR	EMD12T2R		
						Q702	8-729-053-52	TRANSISTOR	HN1C01FE-Y/GR (TPLR3)		

Ref. No.	Part No.	Description		Ref. No.	Part No.	Description	
Q703	6-550-232-01	TRANSISTOR	2SA2029T2LQ/R	R322	1-218-990-81	SHORT CHIP	0
Q707	8-729-037-52	TRANSISTOR	2SD2216J-QR (TX).SO	R325	1-218-977-11	RES-CHIP	100K 5% 1/16W
< RESISTOR >							
R206	1-218-990-81	SHORT CHIP	0	R327	1-218-953-11	RES-CHIP	1K 5% 1/16W
R207	1-218-935-11	RES-CHIP	33 5% 1/16W	R337	1-240-678-91	METAL CHIP	33 5% 1/20W
R210	1-218-935-11	RES-CHIP	33 5% 1/16W	R338	1-240-678-91	METAL CHIP	33 5% 1/20W
R213	1-218-953-11	RES-CHIP	1K 5% 1/16W	R340	1-240-678-91	METAL CHIP	33 5% 1/20W
R214	1-218-953-11	RES-CHIP	1K 5% 1/16W	R341	1-240-678-91	METAL CHIP	33 5% 1/20W
R215	1-218-941-11	METAL CHIP	100 0.5% 1/16W	R407	1-218-985-11	METAL CHIP	470K 0.5% 1/16W
R216	1-220-180-11	METAL CHIP	620 0.5% 1/16W	R408	1-208-923-11	METAL CHIP	33K 0.5% 1/16W
R217	1-218-938-11	RES-CHIP	56 5% 1/16W	R410	1-219-724-11	METAL CHIP	1 1% 1/4W
R218	1-218-940-11	RES-CHIP	82 5% 1/16W	R411	1-219-724-11	METAL CHIP	1 1% 1/4W
R219	1-218-940-11	RES-CHIP	82 5% 1/16W	R412	1-218-975-11	RES-CHIP	68K 5% 1/16W
R220	1-218-940-11	RES-CHIP	82 5% 1/16W	R414	1-218-977-11	RES-CHIP	100K 5% 1/16W
R221	1-218-940-11	RES-CHIP	82 5% 1/16W	R415	1-218-941-81	RES-CHIP	100 5% 1/16W
R222	1-218-940-11	RES-CHIP	82 5% 1/16W	R502	1-208-721-11	METAL CHIP	39K 0.5% 1/16W
R241	1-218-990-81	SHORT CHIP	0	R504	1-208-935-11	METAL CHIP	100K 0.5% 1/16W
R250	1-218-990-81	SHORT CHIP	0	R505	1-208-909-11	METAL CHIP	8.2K 0.5% 1/16W
R253	1-216-009-91	RES-CHIP	22 5% 1/10W	R506	1-208-691-11	METAL CHIP	2.2K 0.5% 1/16W
R254	1-216-009-91	RES-CHIP	22 5% 1/10W	R507	1-208-911-11	METAL CHIP	10K 0.5% 1/16W
R257	1-218-953-11	RES-CHIP	1K 5% 1/16W	R509	1-208-721-11	METAL CHIP	39K 0.5% 1/16W
R258	1-218-957-11	RES-CHIP	2.2K 5% 1/16W	R512	1-208-935-11	METAL CHIP	100K 0.5% 1/16W
R259	1-218-957-11	RES-CHIP	2.2K 5% 1/16W	R513	1-208-909-11	METAL CHIP	8.2K 0.5% 1/16W
R260	1-208-869-11	METAL CHIP	180 0.5% 1/16W	R514	1-208-691-11	METAL CHIP	2.2K 0.5% 1/16W
R261	1-208-663-11	METAL CHIP	150 0.5% 1/16W	R515	1-208-911-11	METAL CHIP	10K 0.5% 1/16W
R262	1-208-663-11	METAL CHIP	150 0.5% 1/16W	R516	1-218-977-11	RES-CHIP	100K 5% 1/16W
R263	1-208-691-11	METAL CHIP	2.2K 0.5% 1/16W	R517	1-218-977-11	RES-CHIP	100K 5% 1/16W
R264	1-218-953-11	RES-CHIP	1K 5% 1/16W	R518	1-218-977-11	RES-CHIP	100K 5% 1/16W
R266	1-208-691-11	METAL CHIP	2.2K 0.5% 1/16W	R519	1-218-977-11	RES-CHIP	100K 5% 1/16W
R267	1-208-929-81	METAL CHIP	56K 0.5% 1/16W	R520	1-218-977-11	RES-CHIP	100K 5% 1/16W
R268	1-208-929-81	METAL CHIP	56K 0.5% 1/16W	R521	1-218-977-11	RES-CHIP	100K 5% 1/16W
R269	1-208-696-11	METAL CHIP	3.6K 0.5% 1/16W	R522	1-218-977-11	RES-CHIP	100K 5% 1/16W
R270	1-208-683-11	METAL CHIP	1K 0.5% 1/16W	R527	1-218-989-11	METAL CHIP	1M 0.5% 1/16W
R271	1-208-683-11	METAL CHIP	1K 0.5% 1/16W	R528	1-218-989-11	METAL CHIP	1M 0.5% 1/16W
R273	1-208-935-11	METAL CHIP	100K 0.5% 1/16W	R529	1-208-911-11	METAL CHIP	10K 0.5% 1/16W
R274	1-208-935-11	METAL CHIP	100K 0.5% 1/16W	R534	1-208-911-11	METAL CHIP	10K 0.5% 1/16W
R276	1-208-927-11	METAL CHIP	47K 0.5% 1/16W	R537	1-218-969-11	RES-CHIP	22K 5% 1/16W
R279	1-208-927-11	METAL CHIP	47K 0.5% 1/16W	R538	1-218-969-11	RES-CHIP	22K 5% 1/16W
R301	1-218-990-81	SHORT CHIP	0	R539	1-218-969-11	RES-CHIP	22K 5% 1/16W
R302	1-218-989-11	RES-CHIP	1M 5% 1/16W	R540	1-218-969-11	RES-CHIP	22K 5% 1/16W
R303	1-218-979-11	RES-CHIP	150K 5% 1/16W	R602	1-218-929-11	RES-CHIP	10 5% 1/16W
R304	1-218-977-11	RES-CHIP	100K 5% 1/16W	R603	1-218-959-11	RES-CHIP	3.3K 5% 1/16W
R305	1-218-984-11	RES-CHIP	390K 5% 1/16W	R604	1-218-973-11	RES-CHIP	47K 5% 1/16W
R306	1-218-970-11	RES-CHIP	27K 5% 1/16W	R605	1-218-955-11	RES-CHIP	1.5K 5% 1/16W
R308	1-218-933-11	RES-CHIP	22 5% 1/16W	R606	1-218-929-11	RES-CHIP	10 5% 1/16W
R311	1-218-990-81	SHORT CHIP	0	R607	1-218-951-11	RES-CHIP	680 5% 1/16W
R312	1-218-990-81	SHORT CHIP	0	R608	1-218-939-11	RES-CHIP	68 5% 1/16W
R313	1-218-990-81	SHORT CHIP	0	R609	1-218-969-11	RES-CHIP	22K 5% 1/16W
R314	1-218-931-11	RES-CHIP	15 5% 1/16W	R707	1-208-889-11	METAL CHIP	1.2K 0.5% 1/16W
R315	1-218-931-11	RES-CHIP	15 5% 1/16W	R709	1-208-687-11	METAL CHIP	1.5K 0.5% 1/16W
R316	1-218-990-81	SHORT CHIP	0	R710	1-220-874-81	METAL CHIP	15 0.5% 1/16W
R317	1-218-990-81	SHORT CHIP	0	R711	1-220-874-81	METAL CHIP	15 0.5% 1/16W
R318	1-218-990-81	SHORT CHIP	0	R712	1-218-977-11	RES-CHIP	100K 5% 1/16W
R319	1-218-990-81	SHORT CHIP	0	R713	1-218-952-11	RES-CHIP	820 5% 1/16W
R320	1-218-990-81	SHORT CHIP	0	R718	1-211-982-11	METAL CHIP	36 0.5% 1/10W
R321	1-218-941-81	RES-CHIP	100 5% 1/16W	R719	1-211-982-11	METAL CHIP	36 0.5% 1/10W
				R720	1-218-953-11	RES-CHIP	1K 5% 1/16W

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>				
R732	1-218-990-81	SHORT CHIP	0			
R750	1-218-965-11	RES-CHIP	10K	5%	1/16W	
R752	1-218-990-81	SHORT CHIP	0			
R753	1-218-990-81	SHORT CHIP	0			
R757	1-218-990-81	SHORT CHIP	0			
R758	1-218-990-81	SHORT CHIP	0			
R802	1-218-953-11	RES-CHIP	1K	5%	1/16W	
R804	1-218-953-11	RES-CHIP	1K	5%	1/16W	
R805	1-218-953-11	RES-CHIP	1K	5%	1/16W	
R814	1-218-953-11	RES-CHIP	1K	5%	1/16W	
R817	1-218-990-81	SHORT CHIP	0			
R821	1-218-953-11	RES-CHIP	1K	5%	1/16W	
R825	1-218-953-11	RES-CHIP	1K	5%	1/16W	
R826	1-218-953-11	RES-CHIP	1K	5%	1/16W	
R829	1-216-009-91	RES-CHIP	22	5%	1/10W	

< COMPOSITION CIRCUIT BLOCK >

RB201	1-234-378-11	RES, NETWORK 10K (1005X4)
RB204	1-234-378-11	RES, NETWORK 10K (1005X4)
RB206	1-234-375-21	RES, NETWORK 1K (1005X4)

< SENSOR >

SE501	1-479-022-51	SENSOR, ANGULAR VELOCITY (30.8KHZ) (PITCH)
SE502	1-479-022-61	SENSOR, ANGULAR VELOCITY (32.2KHZ) (YAW)

< TERMINAL >

TB001 1-780-112-11 TERMINAL, CONTACT

< VIBRATOR >

* X201 1-813-860-21 OSCILLATOR, CRYSTAL (36MHz)



Revision History

Ver.	Date	History	Contents	S.M. Rev. issued
1.0	2007.04	Official Release	—	—
1.1	2007.05	Revised-1	<ul style="list-style-type: none">• Correction of SCHEMATIC DIAGRAMS• Correction of PRINTED WIRING BOARDS	Yes