

DSC-L1

SERVICE MANUAL

LEVEL 2

Ver 1.3 2005.07

Revision History

**How to use
Acrobat Reader**



Photo: Silver

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

Link

SPECIFICATIONS	BLOCK DIAGRAMS	PRINTED WIRING BOARDS
SERVICE NOTE	FRAME SCHEMATIC DIAGRAM	REPAIR PARTS LIST
DISASSEMBLY	SCHEMATIC DIAGRAMS	

- For ADJUSTMENTS (SECTION 6), refer to SERVICE MANUAL, ADJ (9-876-760-51).
- For INSTRUCTION MANUAL, refer to SERVICE MANUAL, LEVEL 1 (9-876-760-41).
- **Reference No. search on printed wiring boards is available.**
- [The Cautions at the Time of Lens Block Handling](#)
- [The Method of Attachment of LC-084 Flexible Board](#)
- [The Method of Attachment of USB and DC IN Jacks on the JK-276 Flexible Board](#)
- [HELP: Sheet attachment positions and procedures of processing the flexible boards/harnesses are shown.](#)

On the CH-147 and SY-110 boards

This service manual provides the information that is premised the circuit board replacement service and not intended repair inside the CH-147 and SY-110 boards.

Therefore, schematic diagram, printed wiring board and electrical parts list of the CH-147 and SY-110 boards are not shown.

The following pages are not shown.

Schematic diagram	Pages 4-9 to 4-28
Printed wiring board	Pages 4-37 to 4-40
Waveforms	Pages 4-49 and 4-50
Mounted parts location	Page 4-51
Electrical parts list	Pages 5-7 and 5-10 to 5-13

The above-described information is shown in service manual Level 3.

DIGITAL STILL CAMERA

SONY®



Cyber-shot



SPECIFICATIONS

■ Camera

[System]

Image device

6.85 mm (1/2.7 type) color CCD
Primary color filter

Total pixels number of camera

Approx. 4 231 000 pixels

Effective pixels number of camera

Approx. 4 065 000 pixels

Lens

Carl Zeiss Vario-Tessar
3× zoom lens
f = 5.1 – 15.3 mm (32 – 96 mm when
converted to a 35 mm still camera)
F2.8 – 5.1
Automatic ND filter switching

Exposure control

Automatic exposure, Scene selection
(7 modes)

White balance

Automatic, Daylight, Cloudy,
Fluorescent, Incandescent

File format (DCF compliant)

Still images: Exif Ver. 2.2 JPEG
compliant, DPOF compatible
Movies: MPEG1 compliant
(Monaural)

Recording media

“Memory Stick Duo”

Flash

Recommended distance (ISO set to
Auto):
0.2 to 2.0 m (7 7/8 to 78 3/4 inches)
(W)
0.5 to 1.5 m (19 3/4 to 59 1/8 inches)
(T)

[Input and Output connectors]

USB jack mini B

USB communication

Hi-Speed USB (USB 2.0 compliant)

[LCD screen]

LCD panel

3.8 cm (1.5 type) TFT drive

Total number of dots

76 800 (320×240) dots

[Power, general]

Used battery pack

NP-FT1

Power requirements

3.6 V

Power consumption (during shooting)

1.1 W

Operating temperature

0°C to +40°C (+32°F to +104°F)

Storage temperature

–20°C to +60°C (–4°F to +140°F)

Dimensions

Approx. 95×44.3×25.7 mm (3
3/4×1 3/4×1 1/16 inches) (W/H/D,
excluding maximum protrusions)

Mass

Approx. 152 g (5.4 oz) (including
battery pack NP-FT1, “Memory
Stick Duo” and neck strap)

Microphone

Electret condenser microphone

Speaker

Dynamic speaker

Exif Print

Compatible

PRINT Image Matching II

Compatible

PictBridge

Compatible

■ AC-LS5/LS5B AC Adaptor

Input rating

100 V to 240 V AC, 50/60 Hz, 11 W,
0.16 A to 0.09 A

Output rating

4.2 V DC, 1.5 A

Operating temperature

0°C to +40°C (+32°F to +104°F)

Storage temperature

–20°C to +60°C (–4°F to +140°F)

Dimensions

Approx. 48×29×81 mm
(1 15/16×1 3/16×3 1/4 inches)
(W/H/D, excluding projecting parts)

Mass

Approx. 130 g (5 oz)
excluding power cord (mains lead)

■ NP-FT1 battery pack

Used battery

Lithium-ion battery

Maximum voltage

DC 4.2 V

Nominal voltage

DC 3.6 V

Capacity

2.4 Wh (680 mAh)

■ Accessories

- AC-LS5/LS5B AC Adaptor (1)
- Power cord (mains lead) (1)
- NP-FT1 battery pack (1)
- Battery case (1)
- TAD-LA tripod adaptor (1)
- USB cable (1)
- Neck strap (1)
- “Memory Stick Duo” (16 MB) (1)
- Memory Stick Duo Adaptor (1)
- CD-ROM (USB driver SPVD-012) (1)
- Operating instructions (1)

See page 5-14.

Design and specifications are subject to change
without notice.

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 IDENTIFIÉS 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.

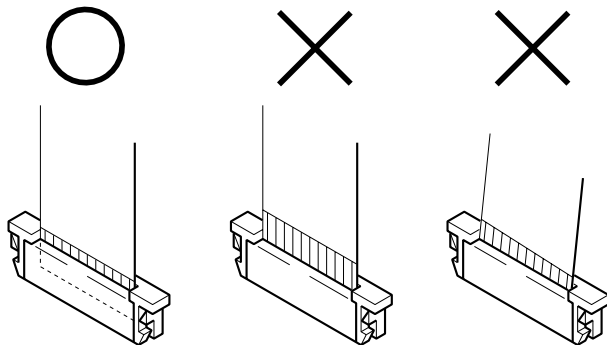
TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>
1. SERVICE NOTE		
1-1.	Note for Repair	1-1
1-2.	Discharging of the ST-109 Flexible Board's Charging Capacitor (C050)	1-1
1-3.	The Cautions at the Time of Lens Block Handling	1-2
1-4.	Description on Self-diagnosis Display	1-2
2. DISASSEMBLY		
2-1.	Disassembly	2-1
2-2.	Service Position	2-5
2-3.	The Method of Attachment of LC-084 Flexible Board	2-7
2-4.	The Method of Attachment of USB and DC IN Jacks on the JK-276 Flexible Board	2-9
2-5.	Circuit Boards Location	2-10
3. BLOCK DIAGRAMS		
3-1.	Overall Block Diagram (1/2)	3-1
3-2.	Overall Block Diagram (2/2)	3-3
3-3.	Power Block Diagram (1/2)	3-5
3-4.	Power Block Diagram (2/2)	3-7
4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS		
4-1.	Frame Schematic Diagram	4-1
4-2.	Schematic Diagrams	4-5
	CD-526 FLEXIBLE (CCD IMAGER)	4-7
	JK-276 FLEXIBLE (JACK, CONTROL SWITCH)	4-29
	ST-109 FLEXIBLE (FLASH DRIVE)	4-31
	SW-432 FLEXIBLE (CONTROL SWITCH)	4-33
	MS-238 FLEXIBLE (MEMORY STICK CONNECTOR)	4-34
	LC-084 FLEXIBLE (LENS COVER MOTOR)	4-34
4-3.	Printed Wiring Boards	4-35
	JK-276 FLEXIBLE	4-41
	ST-109 FLEXIBLE	4-43
	SW-432 FLEXIBLE	4-45
	MS-238 FLEXIBLE	4-47
	LC-084 FLEXIBLE	4-47
4-5.	Mounted Parts Location	4-52
5. REPAIR PARTS LIST		
5-1.	Exploded Views	5-2
5-1-1.	Cabinet (Front) Block	5-2
5-1-2.	Cabinet (Upper) Block	5-3
5-1-3.	Battery Holder Block	5-4
5-1-4.	Cabinet (Rear) Block	5-5
5-2.	Electrical Parts List	5-6

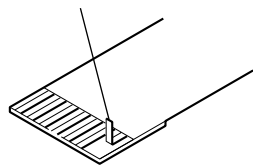
1. SERVICE NOTE

1-1. NOTE FOR REPAIR

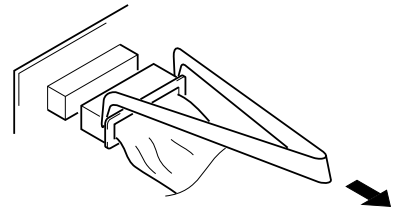
Make sure that the flat cable and flexible board are not cracked or bent at the terminal.
Do not insert the cable insufficiently nor crookedly.



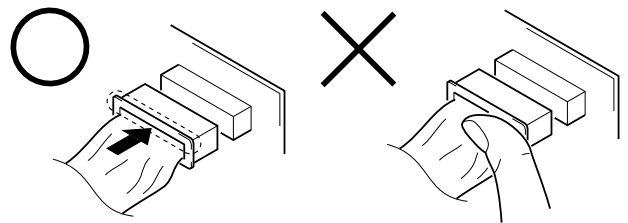
Cut and remove the part of gilt which comes off at the point.
(Be careful or some pieces of gilt may be left inside)



When remove a connector, don't pull at wire of connector.
It is possible that a wire is snapped.



When installing a connector, don't press down at wire of connector.
It is possible that a wire is snapped.



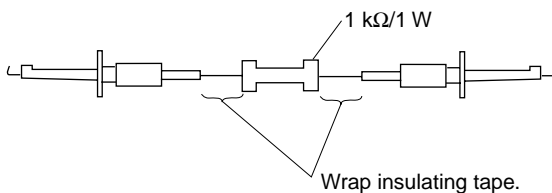
1-2. DISCHARGING OF THE ST-109 FLEXIBLE BOARD'S CHARGING CAPACITOR (C050)

The charging capacitor (C050) of the ST-109 flexible board is charged up to the maximum 300 V potential.
There is a danger of electric shock by this high voltage when the capacitor is handled by hand. The electric shock is caused by the charged voltage which is kept without discharging when the main power of the unit is simply turned off. Therefore, the remaining voltage must be discharged as described below.

Preparing the Short Jig

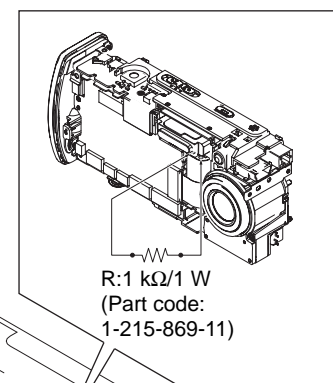
To preparing the short jig, a small clip is attached to each end of a resistor of 1 k Ω /1 W (1-215-869-11).

Wrap insulating tape fully around the leads of the resistor to prevent electrical shock.

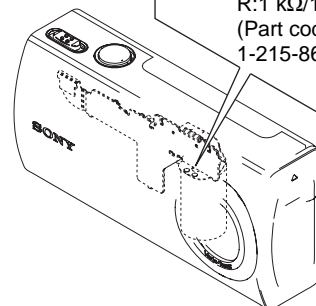


Discharging the Capacitor

Short-circuit between the positive and the negative terminals of charged capacitor with the short jig about 10 seconds.



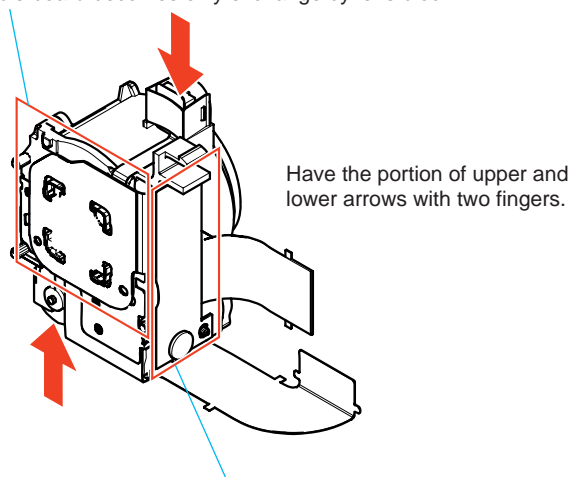
R: 1 k Ω /1 W
(Part code:
1-215-869-11)



1-3. THE CAUTIONS AT THE TIME OF LENS BLOCK HANDLING

In case you deal with a lens block, be careful of the following things.

CD-526 flexible board is integrated with the lens block.
Do not touch or separate the CD board.
CD-526 flexible board becomes only exchange by lens block.



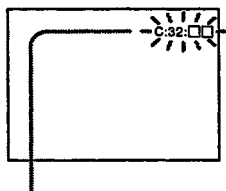
Have the portion of upper and lower arrows with two fingers.

Touch the flexible board of motor side recklessly or don't bend it., because the mounted chip parts could be peeled if the flexible board is curved.

1-4. DESCRIPTION ON SELF-DIAGNOSIS DISPLAY

Self-diagnosis display

The camera has a self-diagnosis display. This function displays the camera condition with five-digits (a combination of a letter and figures) on the LCD screen. If this occurs check the following code chart. The five-digits display informs you of the camera's current condition. The last two digits (indicated by □□) will differ depending on the state of the camera.



Self-diagnosis display

- C: □□: □□
You can reverse the camera malfunction yourself. (However, contact your Sony dealer or local authorized Sony service facility when you cannot recover from the camera malfunction.)
- E: □□: □□
Contact your Sony dealer or local authorized Sony service facility.

Display Code	Countermeasure	Cause	Caution Display During Error
C:32:□□	Turn the power off and on again.	Trouble with hardware.	SYSTEM ERROR
C:13:□□	Format the "Memory Stick Duo".	Unformatted "Memory Stick Duo" is inserted.	FORMAT ERROR
	Insert a new "Memory Stick Duo".	"Memory Stick Duo" is broken.	MEMORY STICK ERROR
E:61:□□	Checking of lens drive circuit.	When failed in the focus and zoom initialization.	—
E:91:□□	Checking of flash unit or replacement of flash unit.	Abnormality when flash is being charged.	

2. DISASSEMBLY

Link

• DISASSEMBLY	• SERVICE POSITION
• THE METHOD OF ATTACHMENT OF LC-084 FLEXIBLE BOARD	
• THE METHOD OF ATTACHMENT OF USB AND DC IN JACKS ON THE JK-276 FLEXIBLE BOARD	
• CIRCUIT BOARDS LOCATION	• HELP

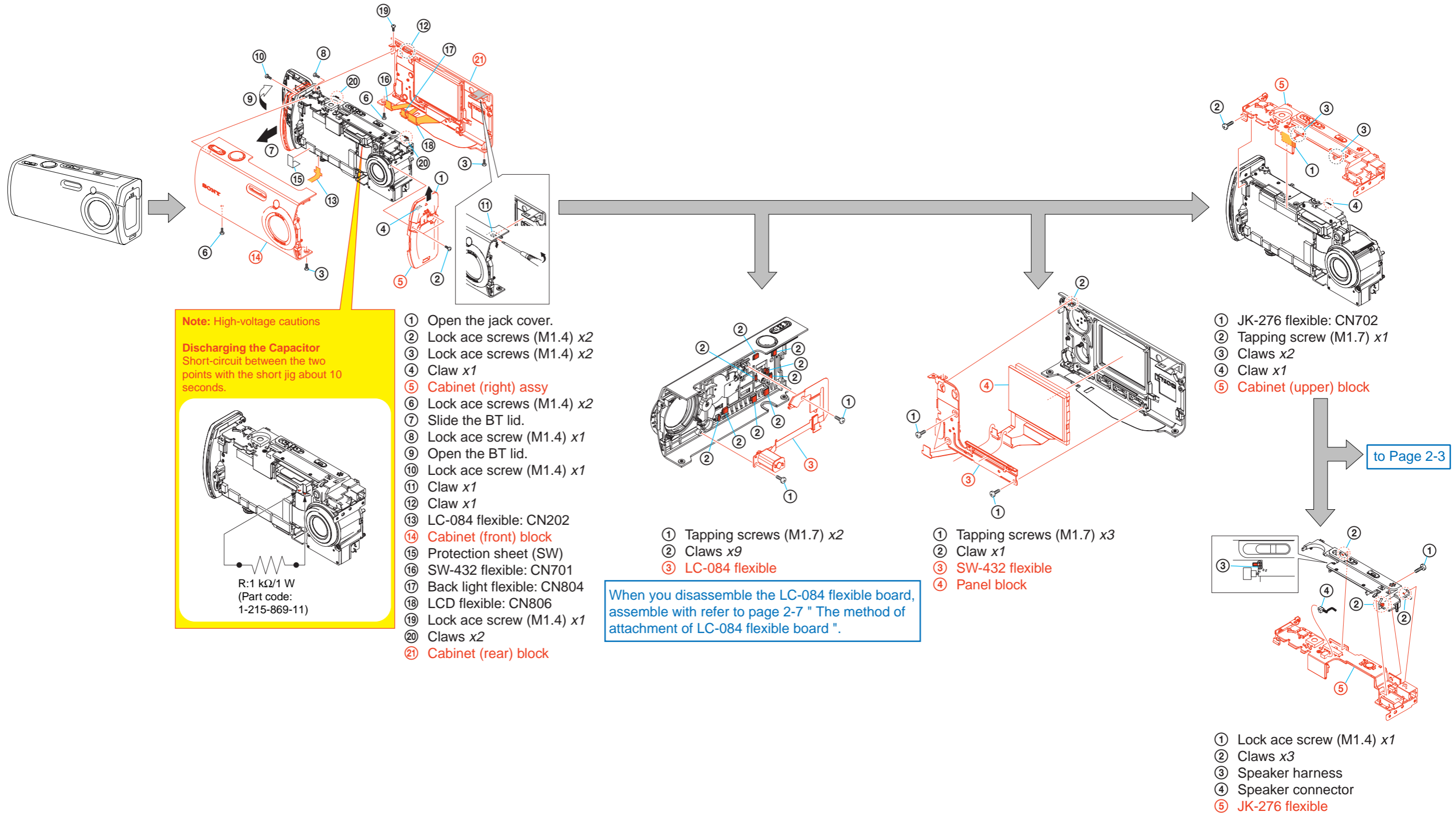
2. DISASSEMBLY

2. DISASSEMBLY

HELP

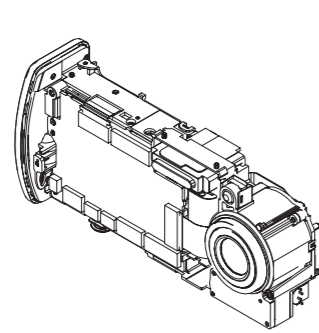
The following flow chart shows the disassembly procedure.

2-1. DISASSEMBLY

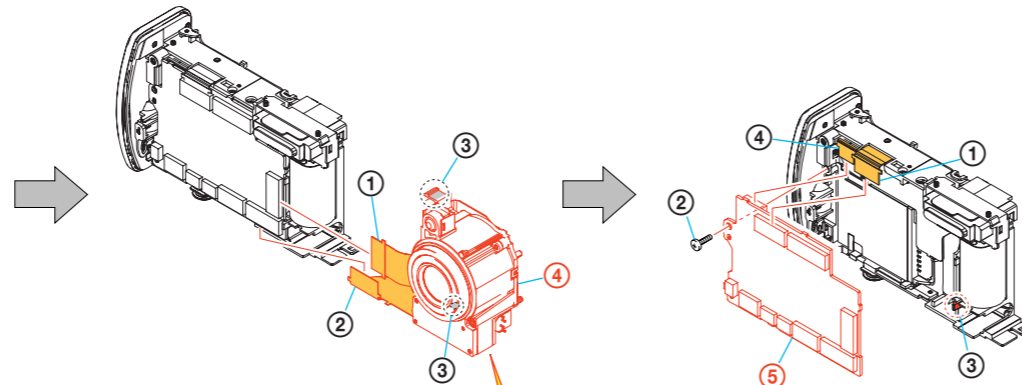


2. DISASSEMBLY

HELP

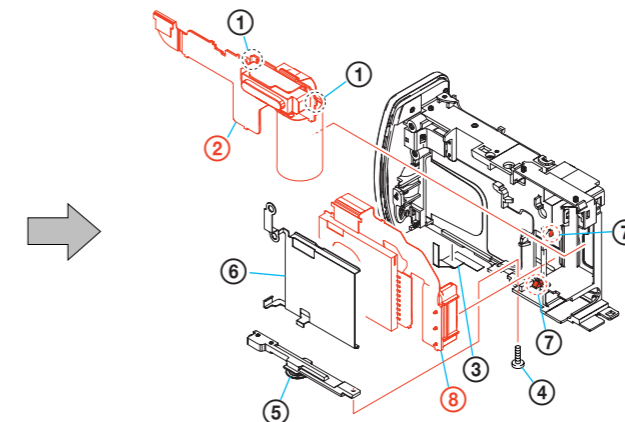


from Page 2-2



- ① CD-526 flexible: CN704
- ② Lens block flexible: CN201
- ③ Claws x2
- ④ Lens block

- ① MS-238 flexible: CN101
- ② Tapping screw (M1.7) x1
- ③ Claw x1
- ④ ST-109 flexible: CN705
- ⑤ SY-110

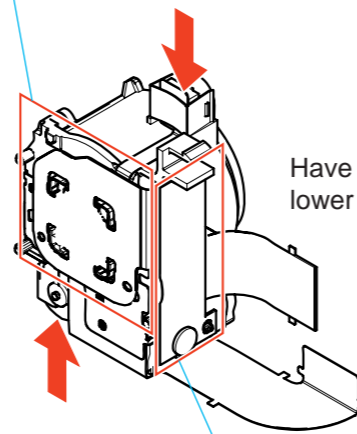


- ① Claws x2
- ② ST-109 flexible
- ③ Copper leaf sheet (BT)
- ④ Lock ace screw (M1.4) x1
- ⑤ Tripod holder
- ⑥ MS holder
- ⑦ Claws x2
- ⑧ MS-238 flexible

Note: The cautions at the time of lens block handling

In case you deal with a lens block, be careful of the following things.

CD-526 flexible board is integrated with the lens block.
Do not touch or separate the CD board.
CD-526 flexible board becomes only exchange by lens block.

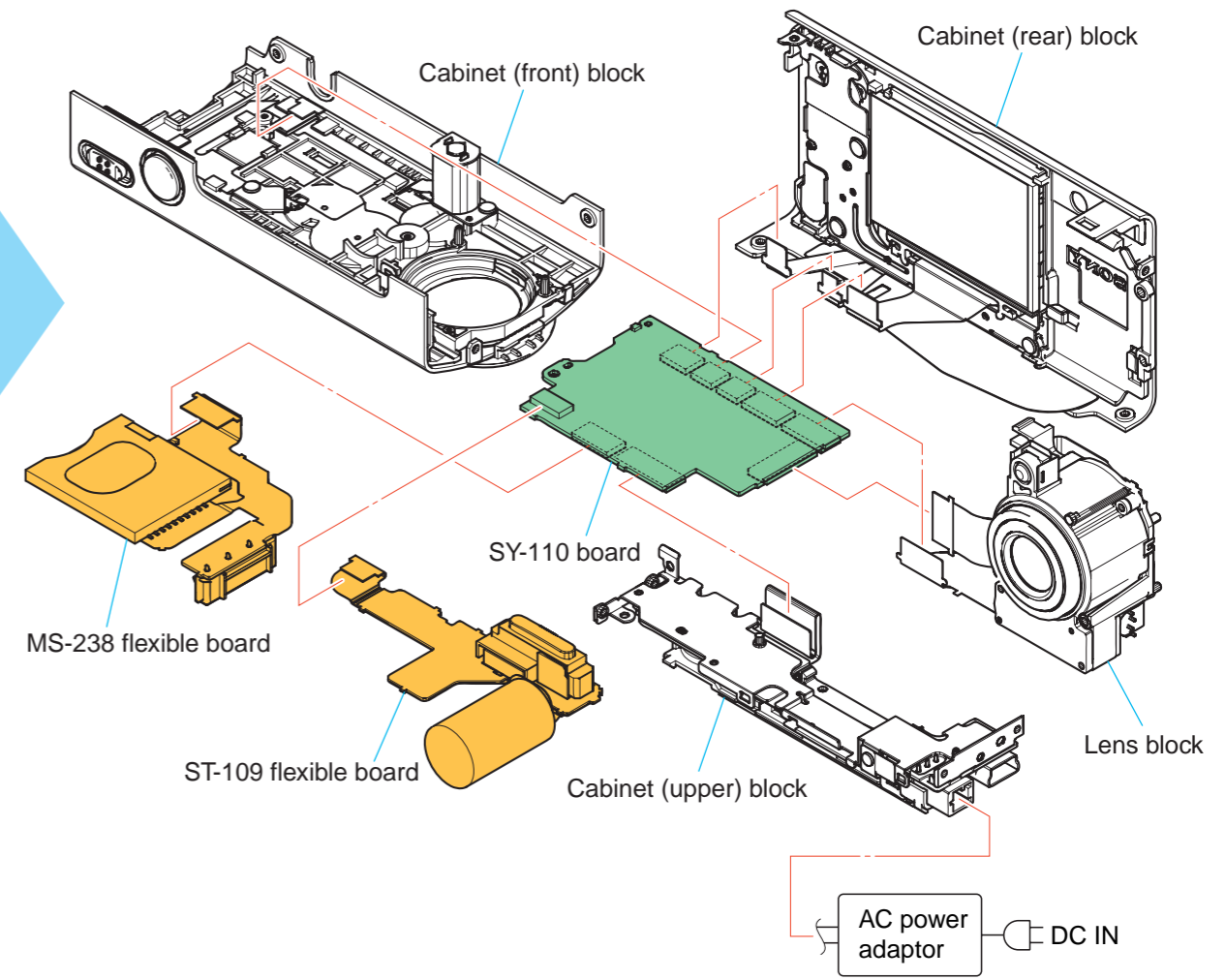
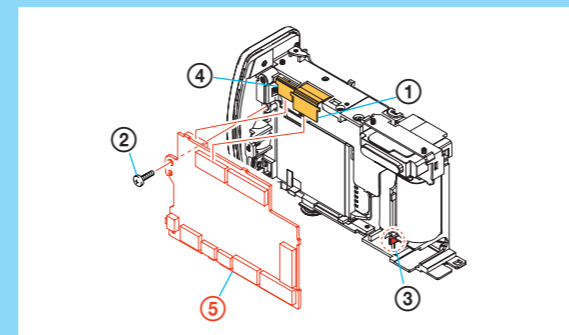
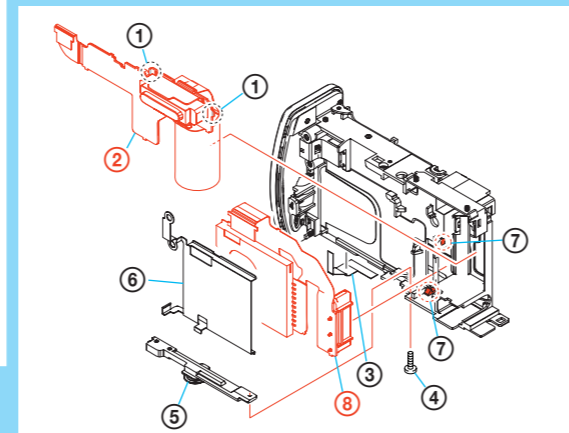
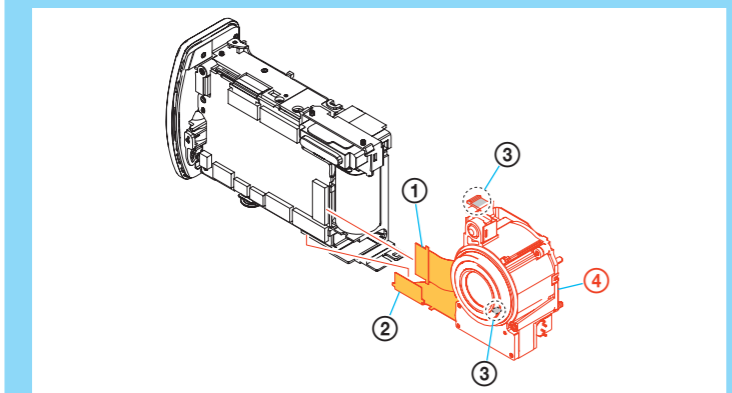
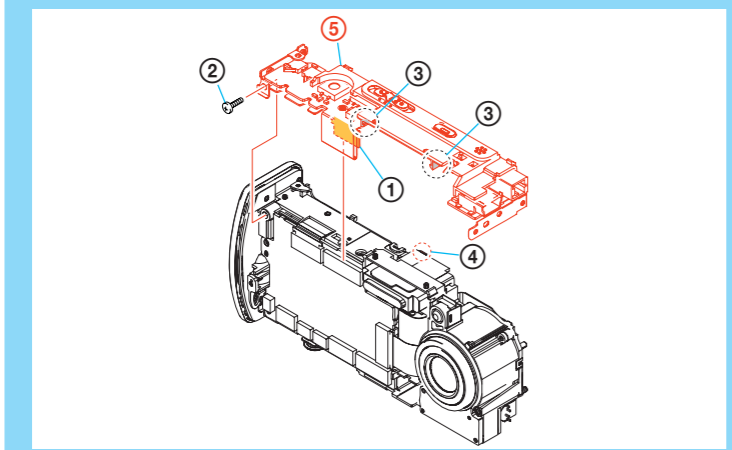
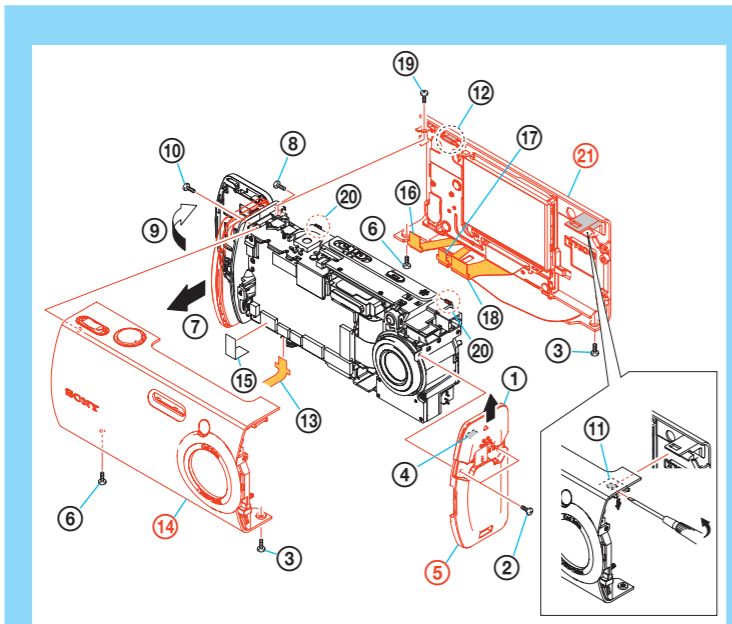


Have the portion of upper and lower arrows with two fingers.

Touch the flexible board of motor side recklessly or don't bend it., because the mounted chip parts could be peeled if the flexible board is curved.

2. DISASSEMBLY

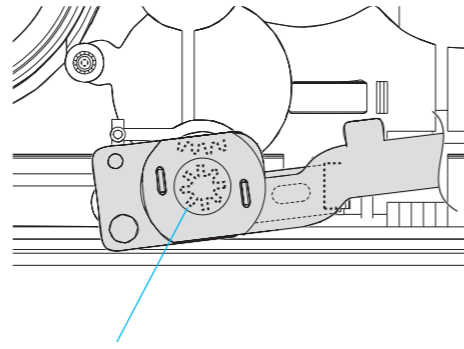
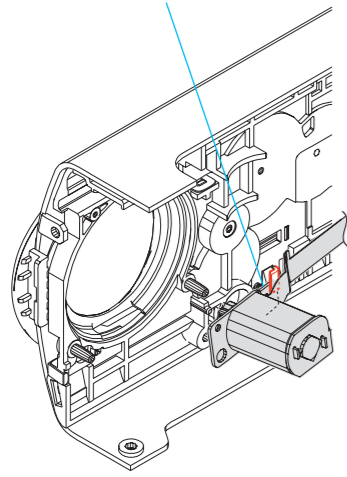
2-2. SERVICE POSITION



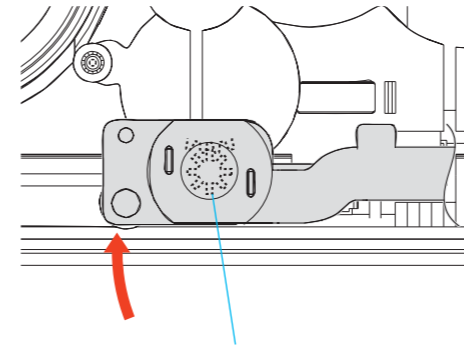
2. DISASSEMBLY

2-3. THE METHOD OF ATTACHMENT OF LC-084 FLEXIBLE BOARD

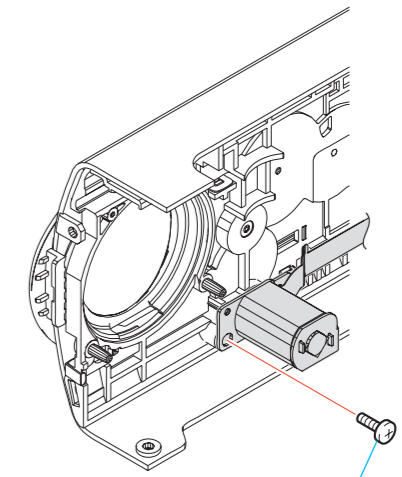
- ① Insert the plate of lens cover motor in the slot on the front cabinet.



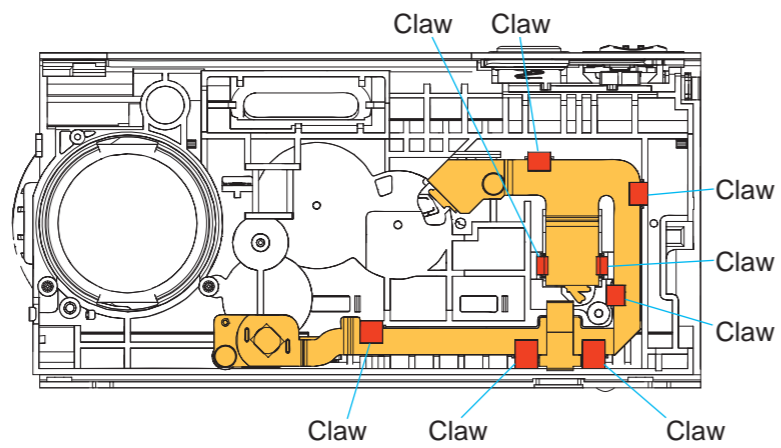
- ② Insert the gear of lens cover motor, as you don't collide with the gear of lens cover.



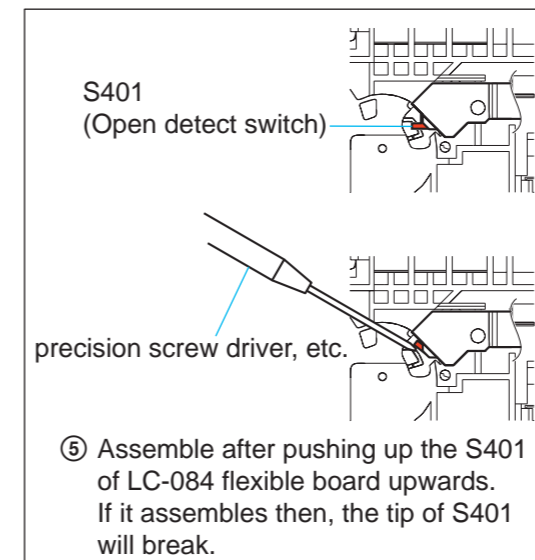
- ③ As you make the right rotate the gear of lens cover motor, engage with the gear of lens cover.



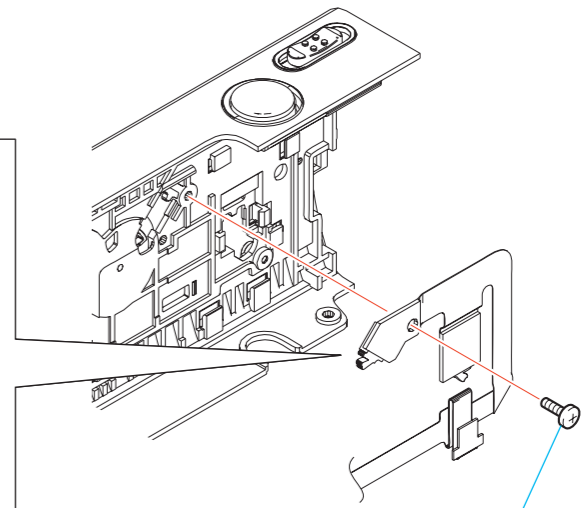
- ④ Tapping screw (M1.7)



- ⑦ Check that the LC-084 flexible board has fitted into eight claws exactly.



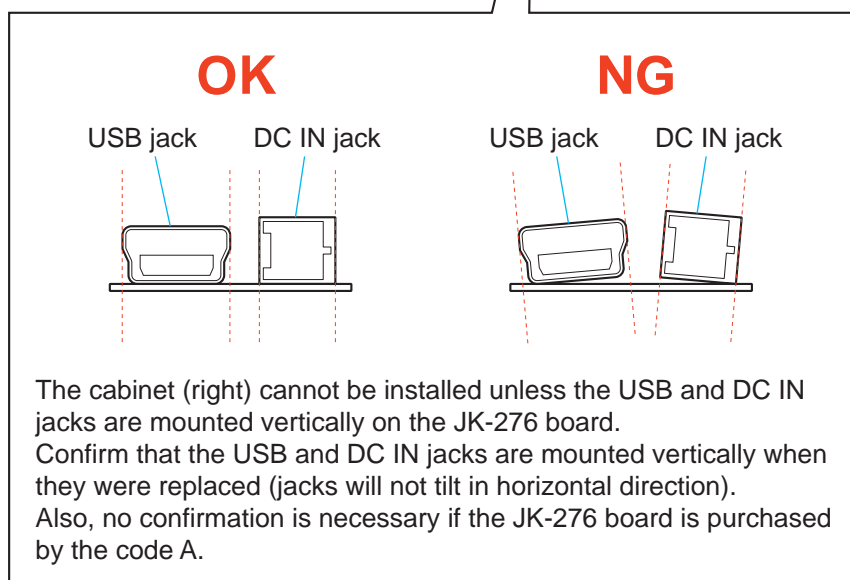
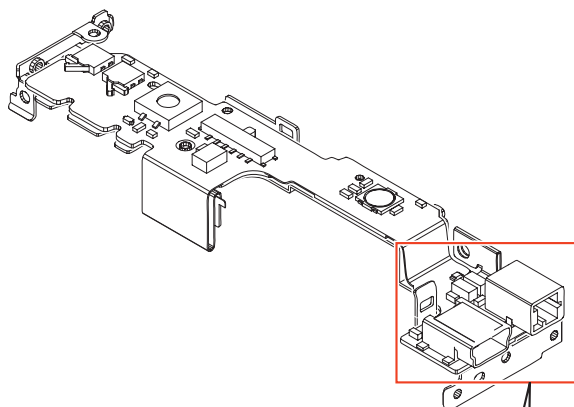
- ⑤ Assemble after pushing up the S401 of LC-084 flexible board upwards. If it assembles then, the tip of S401 will break.



- ⑥ Tapping screw (M1.7)

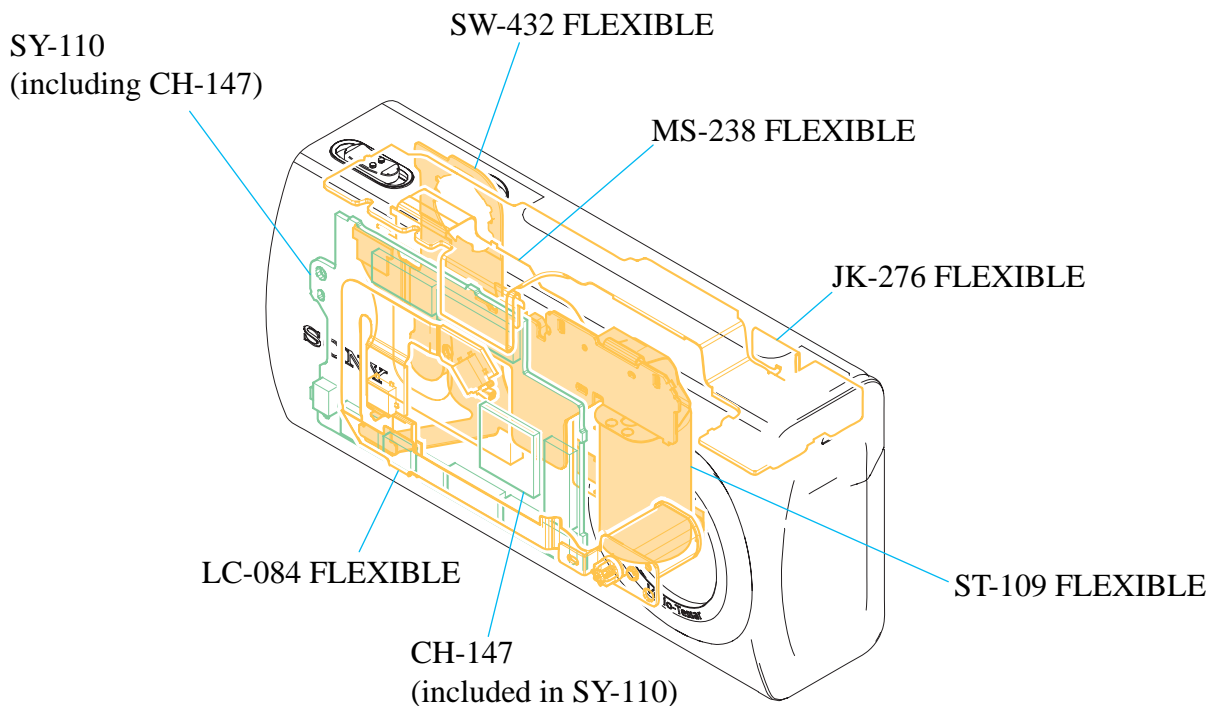
2. DISASSEMBLY

2-4. THE METHOD OF ATTACHMENT OF USB AND DC IN JACKS ON THE JK-276 FLEXIBLE BOARD



2. DISASSEMBLY

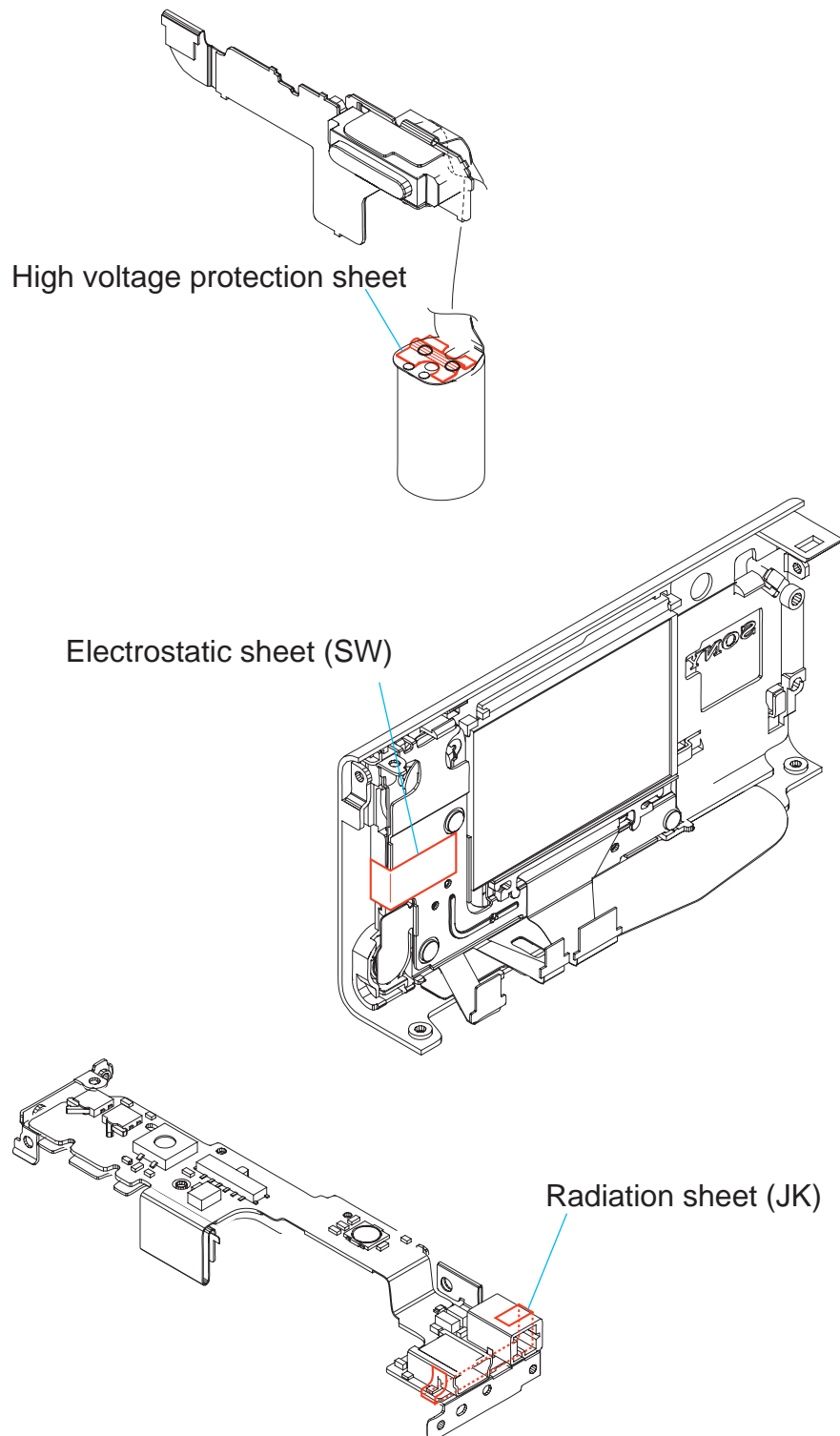
2-5. CIRCUIT BOARDS LOCATION



Board Name	Function
CH-147 (included in SY-110)	CCD SIGNAL PROCESS
JK-276 FLEXIBLE	JACK, CONTROL SWITCH
LC-084 FLEXIBLE	LENS COVER MOTOR
MS-238 FLEXIBLE	MEMORY STICK CONNECTOR
ST-109 FLEXIBLE	FLASH DRIVE
SW-432 FLEXIBLE	CONTROL SWITCH
SY-110 (Including CH-147)	CAMERA MODULE, CAMERA DSP, LENS DRIVE, SH DSP, FRONT CONTROL, LCD DRIVE, AUDIO, DC/DC CONVERTER

HELP

Sheet attachment positions and procedures of processing the flexible boards/harnesses are shown.



3. BLOCK DIAGRAMS

Link

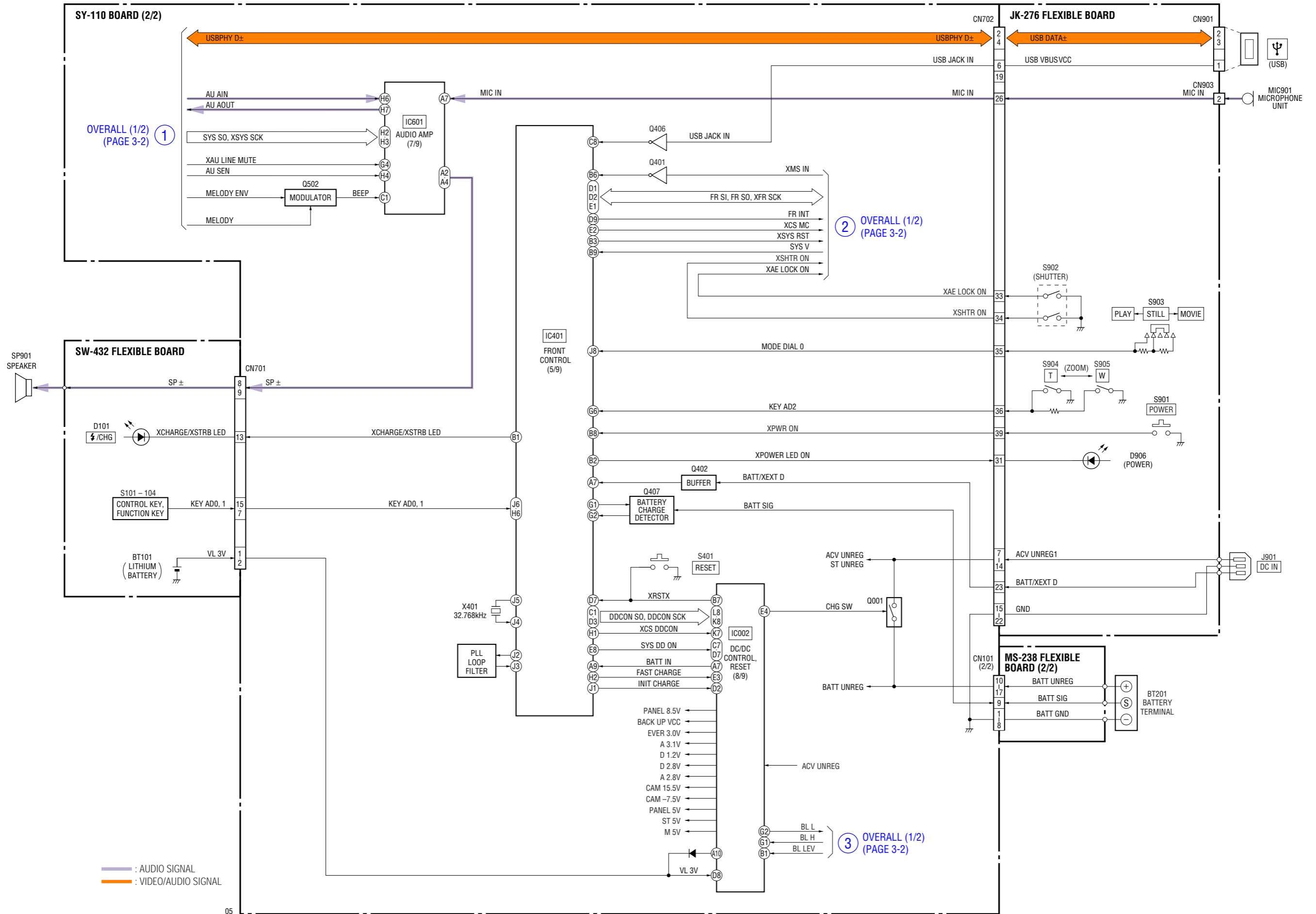
• [OVERALL BLOCK DIAGRAM \(1/2\)](#)

• [POWER BLOCK DIAGRAM \(1/2\)](#)

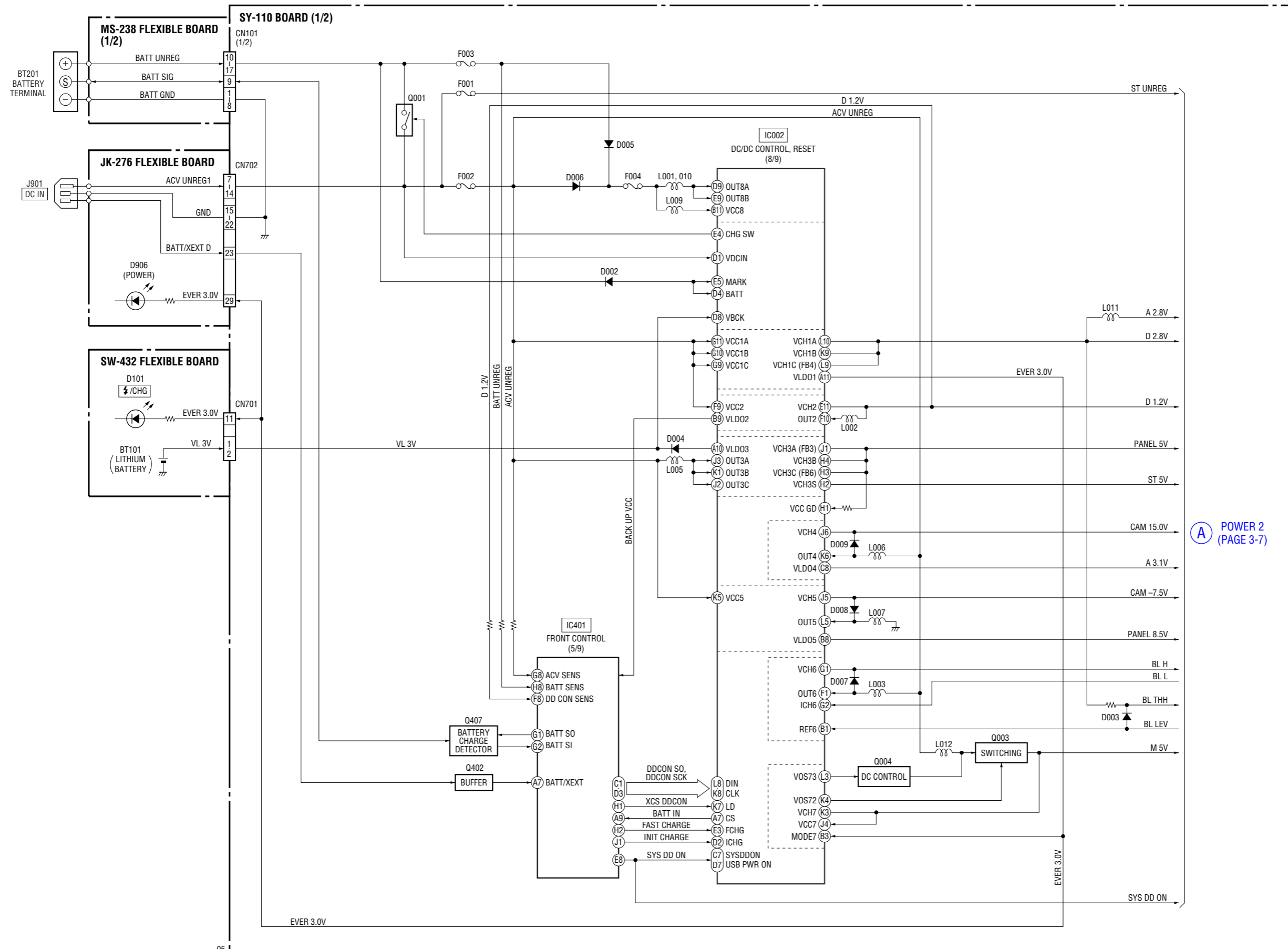
• [OVERALL BLOCK DIAGRAM \(2/2\)](#)

• [POWER BLOCK DIAGRAM \(2/2\)](#)

3-2. OVERALL BLOCK DIAGRAM (2/2) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.



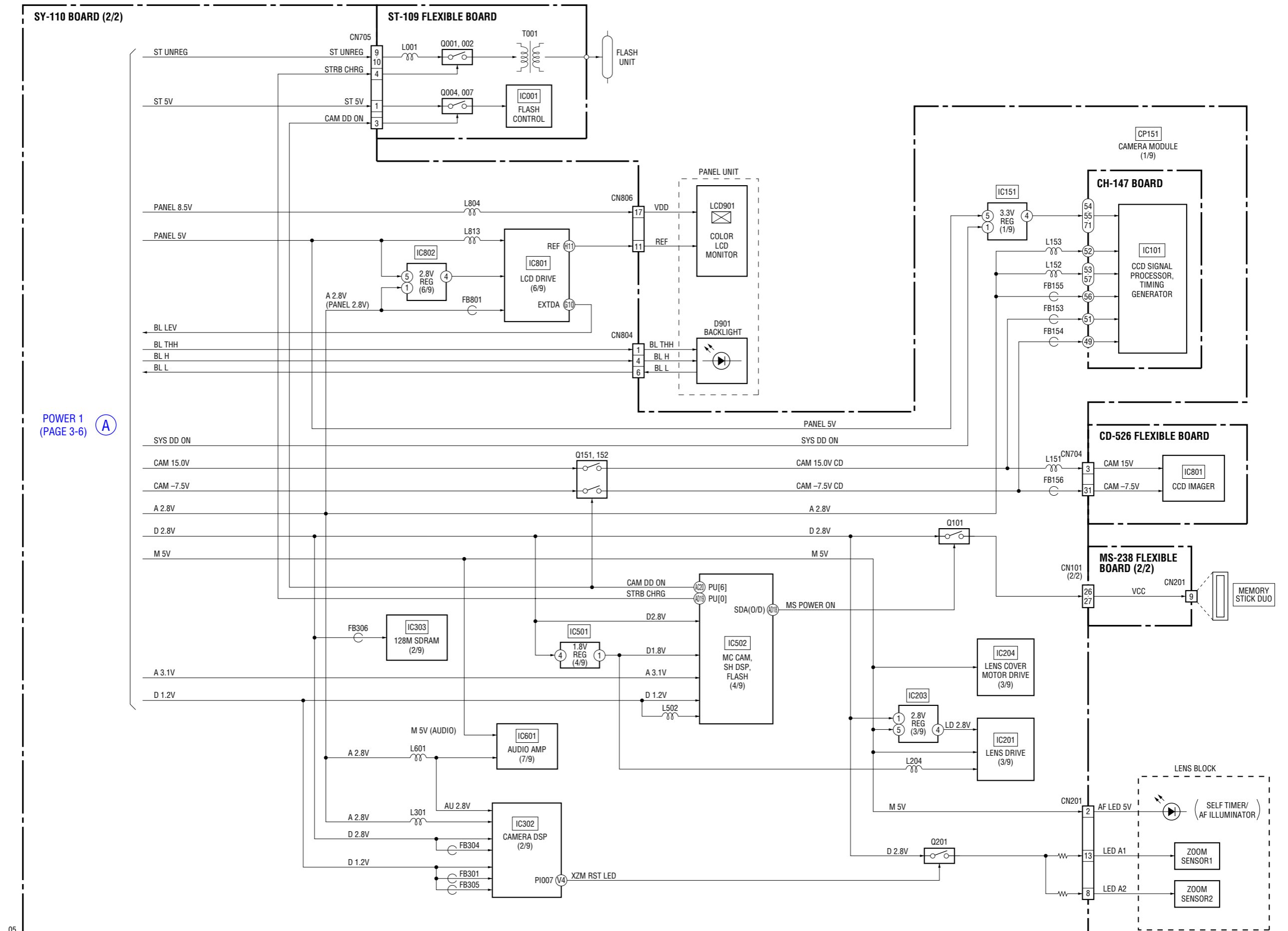
3-3. POWER BLOCK DIAGRAM (1/2) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.



(A) POWER 2
(PAGE 3-7)

05

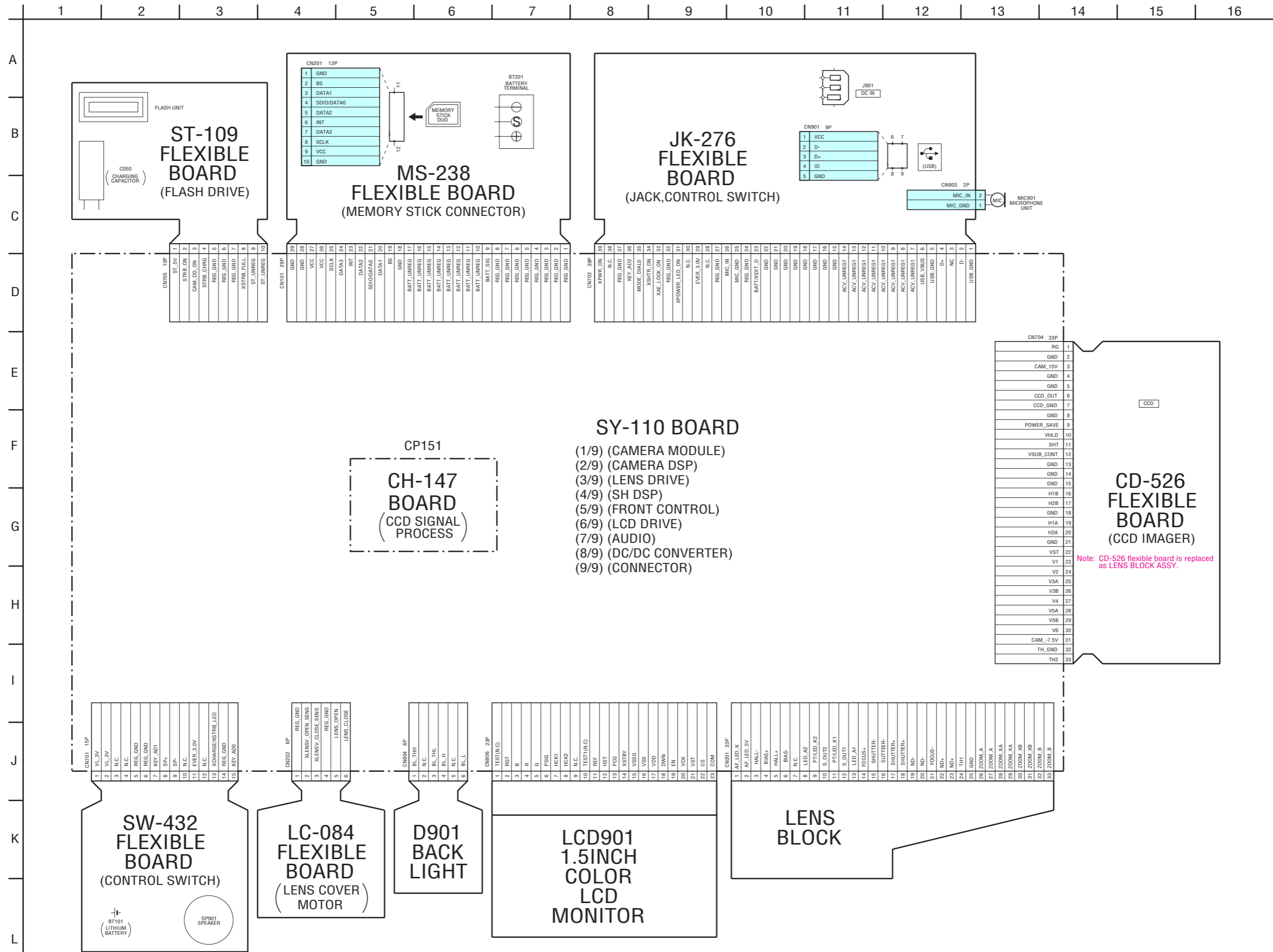
3-4. POWER BLOCK DIAGRAM (2/2) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.



POWER 1 (PAGE 3-6) (A)

4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

4-1. FRAME SCHEMATIC DIAGRAM



Note: CD-526 flexible board is replaced as LENS BLOCK ASSY.

4-2. SCHEMATIC DIAGRAMS

Link

<ul style="list-style-type: none">• CD-526 FLEXIBLE BOARD (CCD IMAGER)	<ul style="list-style-type: none">• SW-432 FLEXIBLE BOARD (CONTROL SWITCH)
<ul style="list-style-type: none">• JK-276 FLEXIBLE BOARD (JACK, CONTROL SWITCH)	<ul style="list-style-type: none">• MS-238 FLEXIBLE BOARD (MEMORY STICK CONNECTOR)
<ul style="list-style-type: none">• ST-109 FLEXIBLE BOARD (FLASH DRIVE)	<ul style="list-style-type: none">• LC-084 FLEXIBLE BOARD (LENS COVER MOTOR)

<ul style="list-style-type: none">• COMMON NOTE FOR SCHEMATIC DIAGRAMS	
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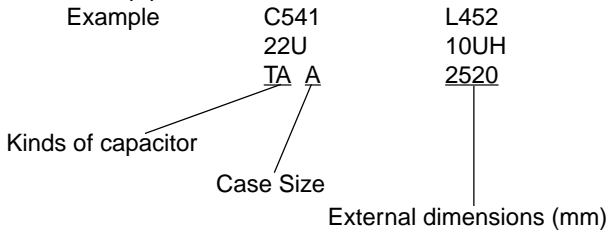
4-2. SCHEMATIC DIAGRAMS

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. $\text{pF} : \mu\text{F} : 50\text{V}$ or less are not indicated except for electrolytics and tantalums.
- Chip resistors are $1/10\text{W}$ 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.



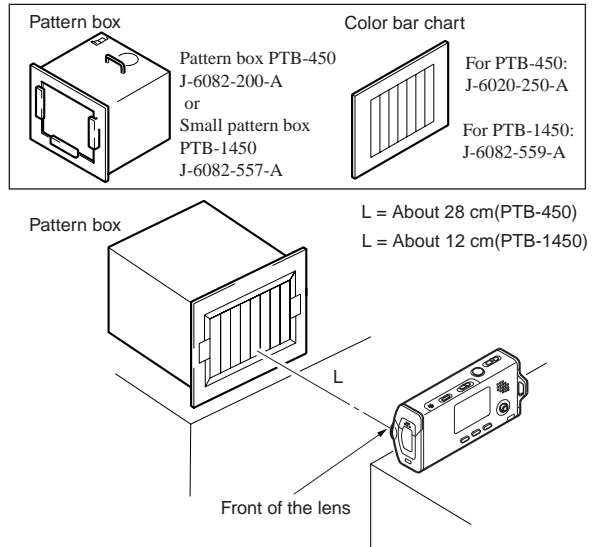
- Constants of resistors, capacitors, ICs and etc with XX indicate that they are not used.
In such cases, the unused circuits may be indicated.
- Parts with ★ differ according to the model/destination. Refer to the mount table for each function.
- All variable and adjustable resistors have characteristic 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
- 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.)

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

1. Connection



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

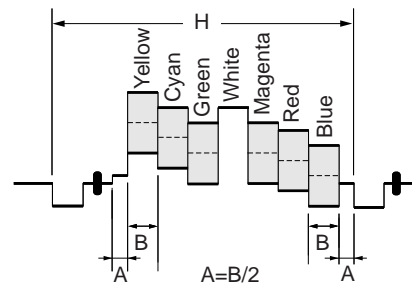


Fig. a (Video output terminal output waveform)

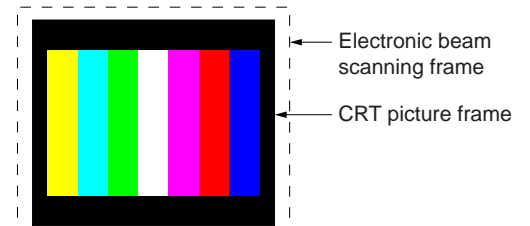


Fig.b (Picture on monitor TV)

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

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

CD-526 FLEXIBLE BOARD

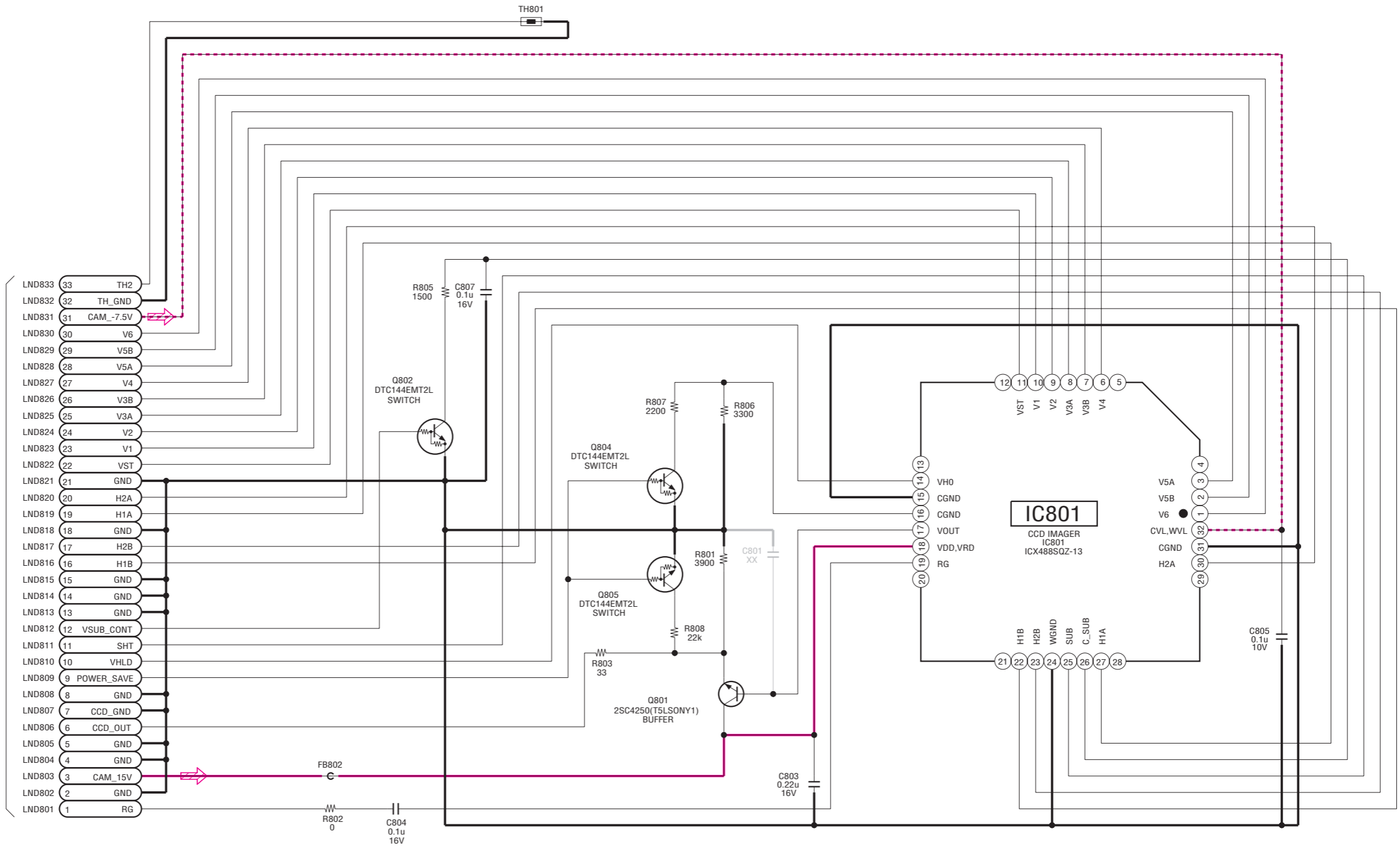
CCD IMAGER

XX MARK:NO MOUNT

Note: CD-526 flexible board is replaced as LENS BLOCK ASSY, so that PRINTED WIRING BOARD is omitted.

Note: Voltage and Waveform of mounted parts on CD-526 flexible board can not be measured, because adhesion of a lens block and CD-526 flexible board may separate.

SY-110
(1/9)
CN704
(PAGE 4-12
of LEVEL3)



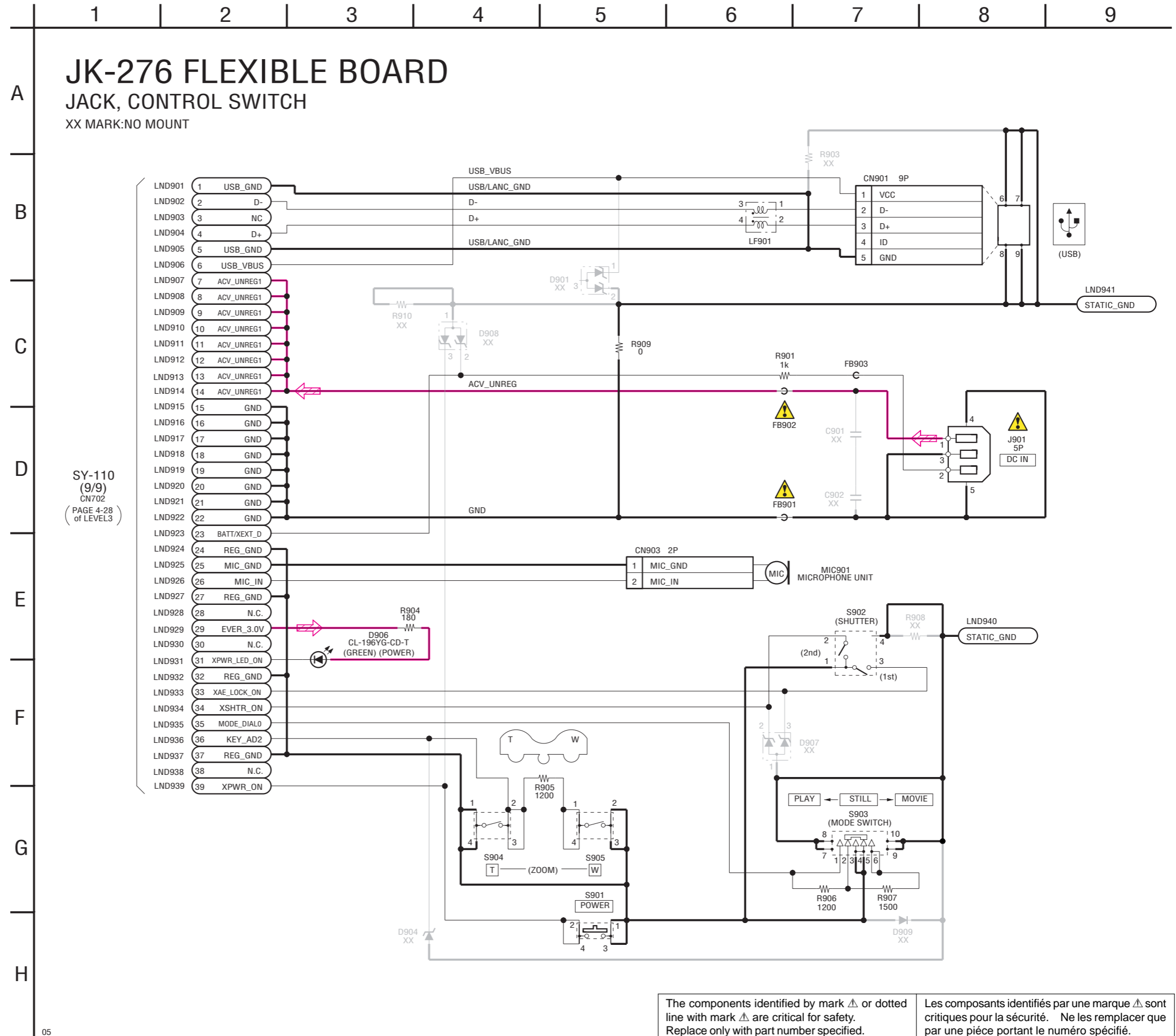
(Note) Cautions are required for the handling of lens block. Refer to "THE CAUTIONS AT THE TIME OF LENS BLOCK HANDLING" on page 1-2, when you exchange.

Precautions for Replacement of CCD Imager

- If the CCD imager has been replaced, carry out all the adjustments for the camera section.
- As the CCD 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.

Schematic diagrams of the CH-147 and SY-110 boards are not shown.
Pages from 4-9 to 4-28 are not shown.

For Schematic Diagram
 • Refer to page 4-41 for printed wiring board.

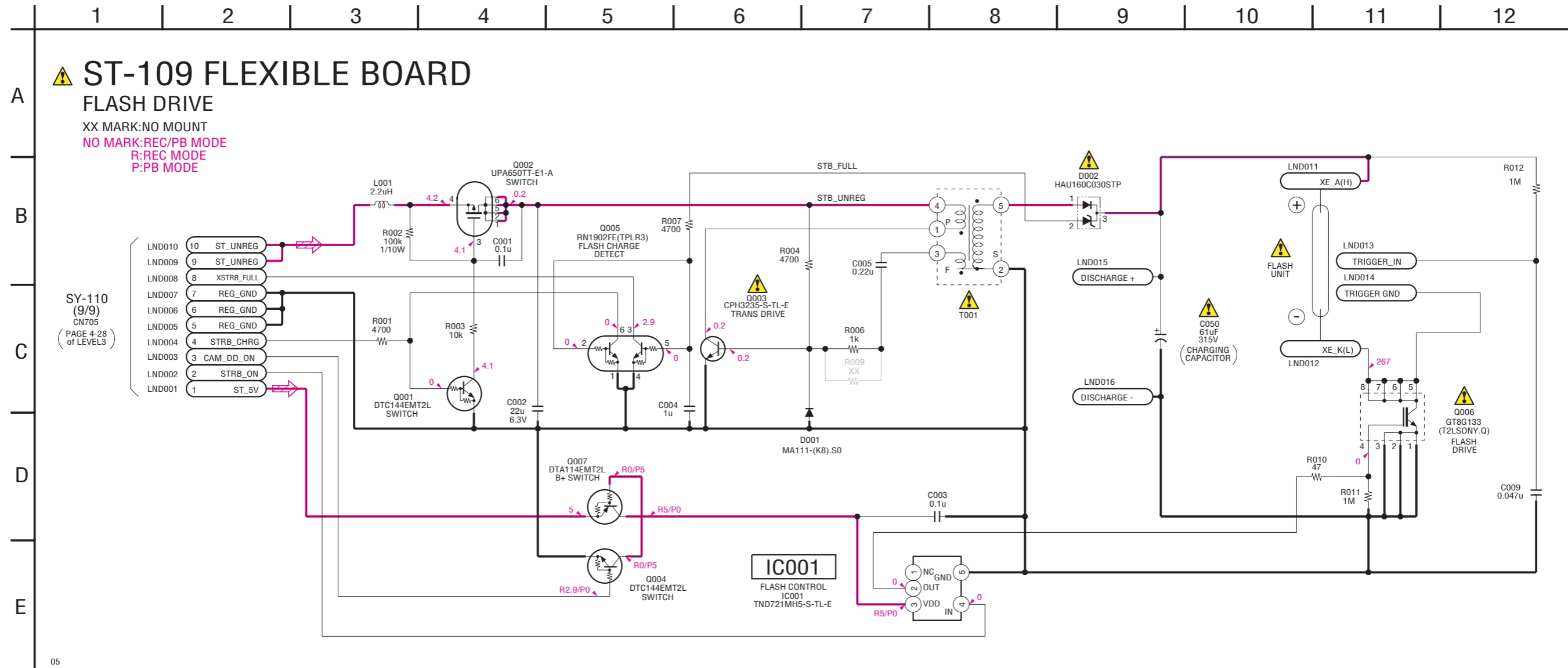


The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

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

For Schematic Diagram

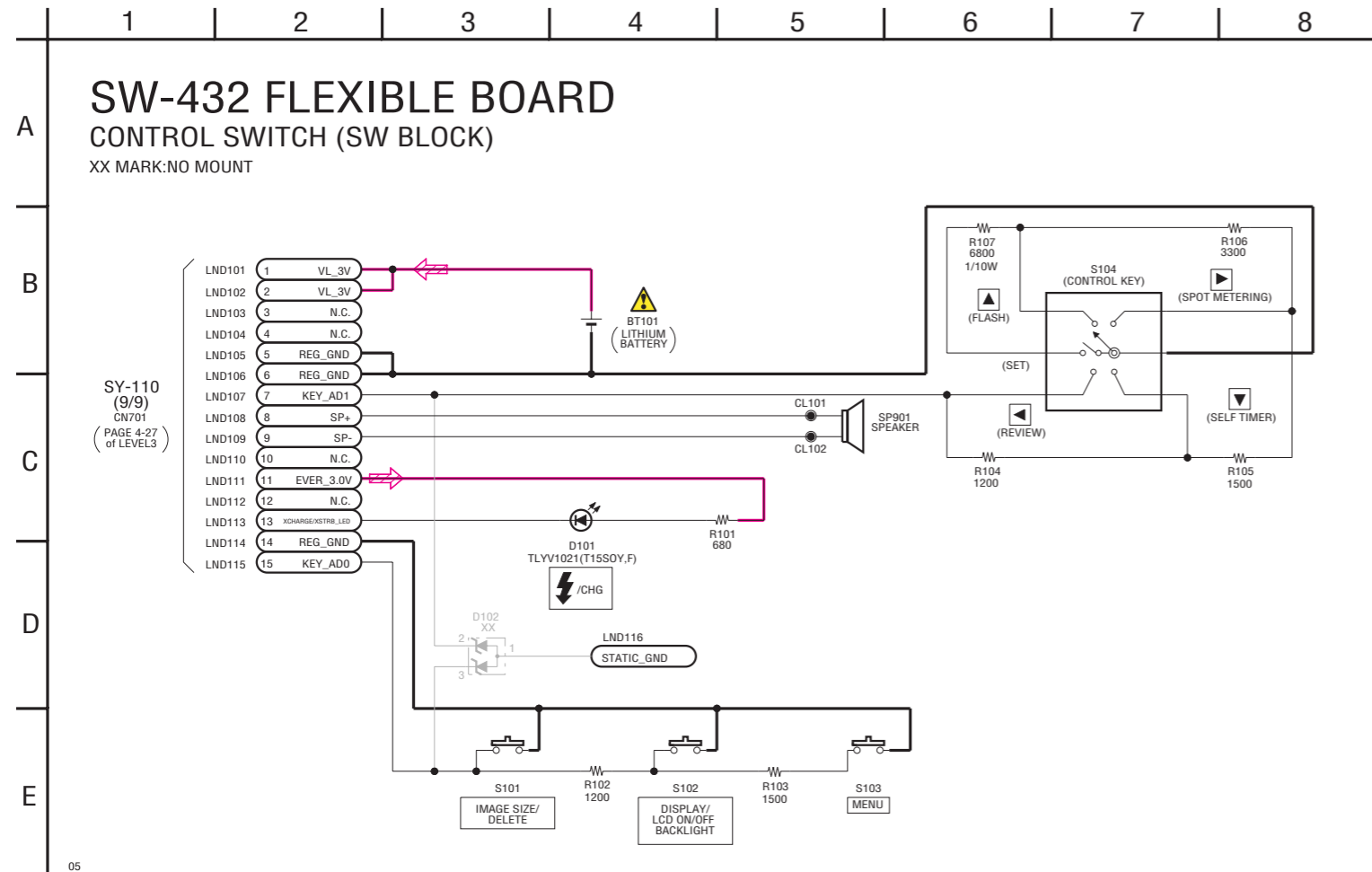
• Refer to page 4-43 for printed wiring board.



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.

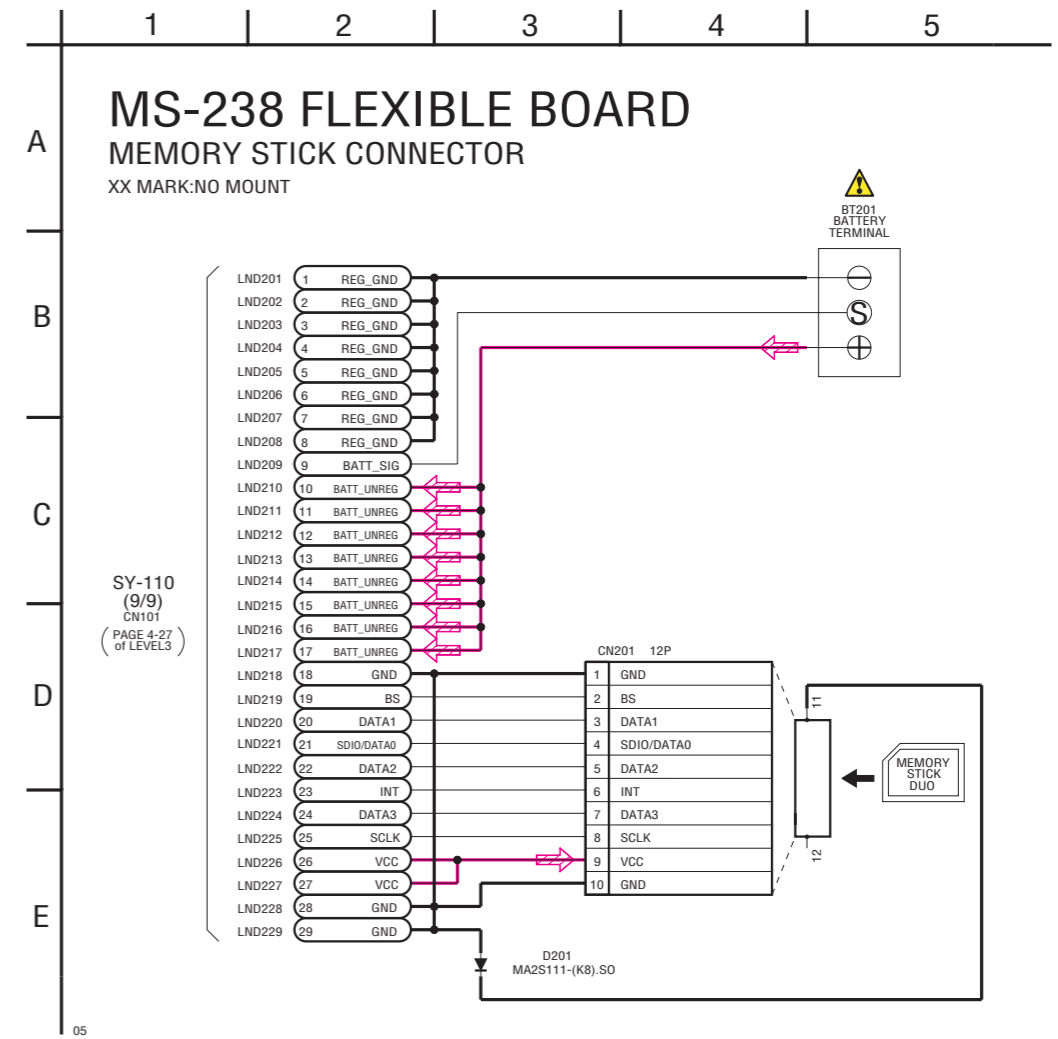
For Schematic Diagram
 • Refer to page 4-45 for printed wiring board.



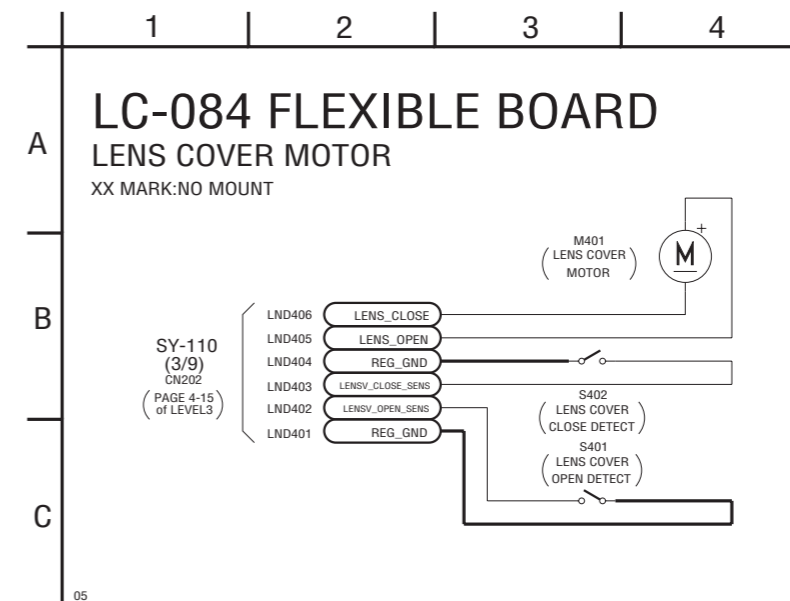
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

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

For Schematic Diagram
 • Refer to page 4-47 for printed wiring board.



For Schematic Diagram
 • Refer to page 4-48 for printed wiring board.



4-3. PRINTED WIRING BOARDS

Link

• JK-276 FLEXIBLE BOARD	• MS-238 FLEXIBLE BOARD
• ST-109 FLEXIBLE BOARD	• LC-084 FLEXIBLE BOARD
• SW-432 FLEXIBLE BOARD	
• COMMON NOTE FOR PRINTED WIRING BOARDS	
• MOUNTED PARTS LOCATION	• CIRCUIT BOARDS LOCATION

Board Name	Function
JK-276 FLEXIBLE	JACK, CONTROL SWITCH
ST-109 FLEXIBLE	FLASH DRIVE
SW-432 FLEXIBLE	CONTROL SWITCH
MS-238 FLEXIBLE	MEMORY STICK CONNECTOR
LC-084 FLEXIBLE	LENS COVER MOTOR

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.
- 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 Name	Parts Location	Pattern	
		Total Number of Layers	Layers Not Indicated
JK-276 flexible	4-52	2 layers	–
ST-109 flexible	4-52	2 layers	–
SW-432 flexible	–	2 layers	–
MS-238 flexible	–	1 layer	–
LC-084 flexible	–	1 layer	–

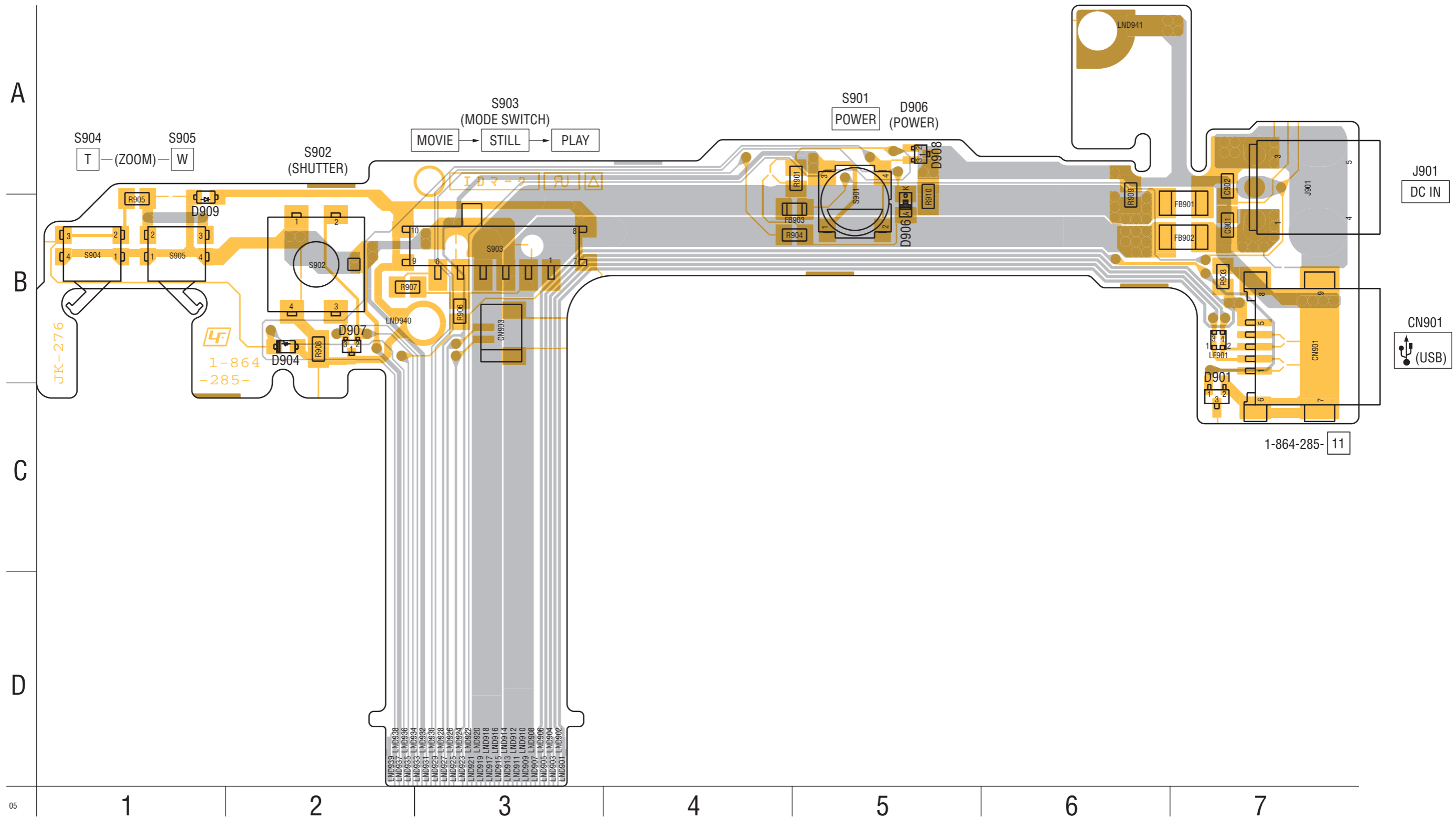
Printed wiring boards of the CH-147 and SY-110 boards are not shown.
Pages from 4-37 to 4-40 are not shown.

JK-276 FLEXIBLE

Note for Printed Wiring Board (See page 4-35).


 : Uses unleaded solder.

JK-276 FLEXIBLE BOARD

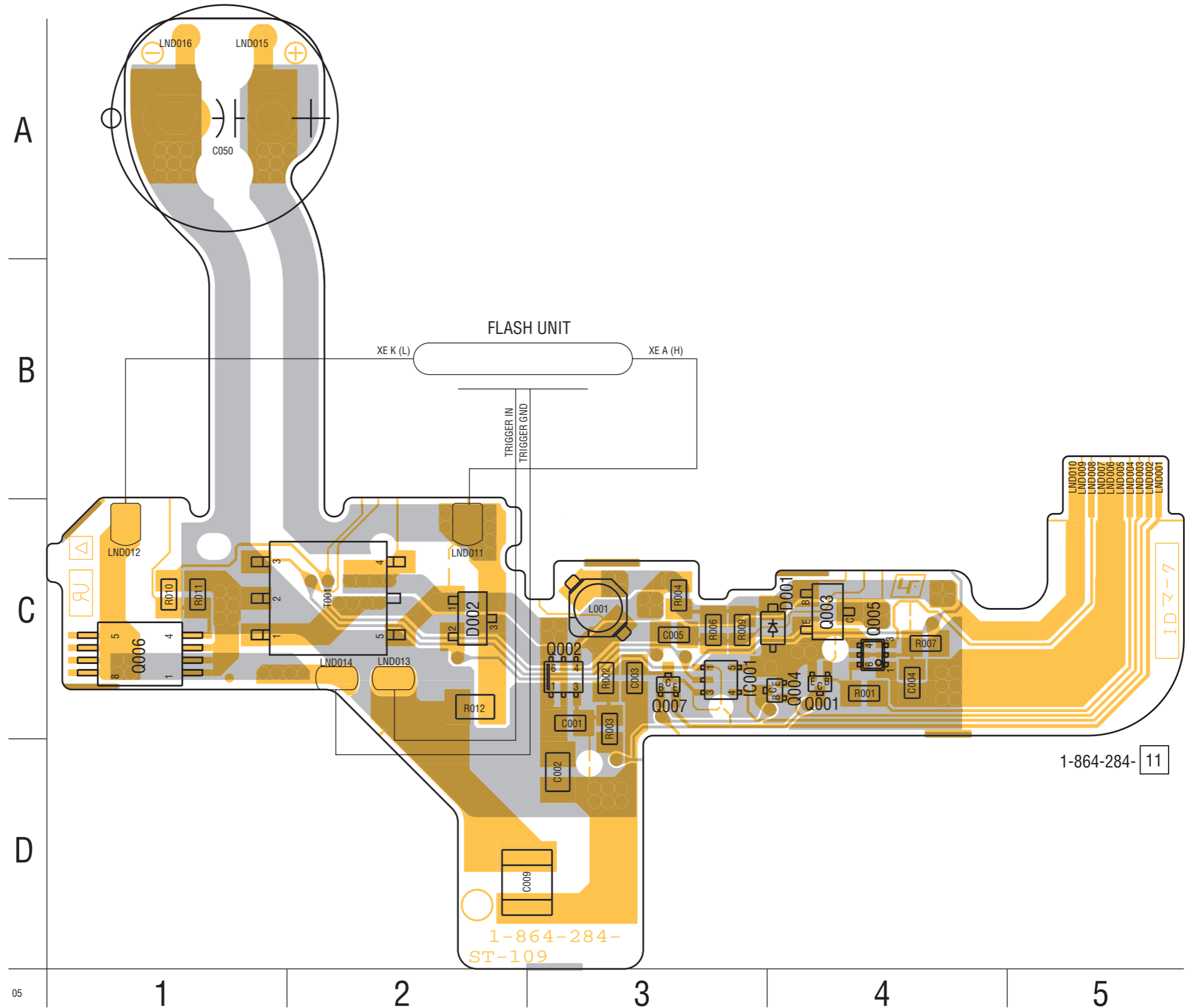


ST-109 FLEXIBLE

Note for Printed Wiring Board (See page 4-35).

 : Uses unleaded solder.

ST-109 FLEXIBLE BOARD

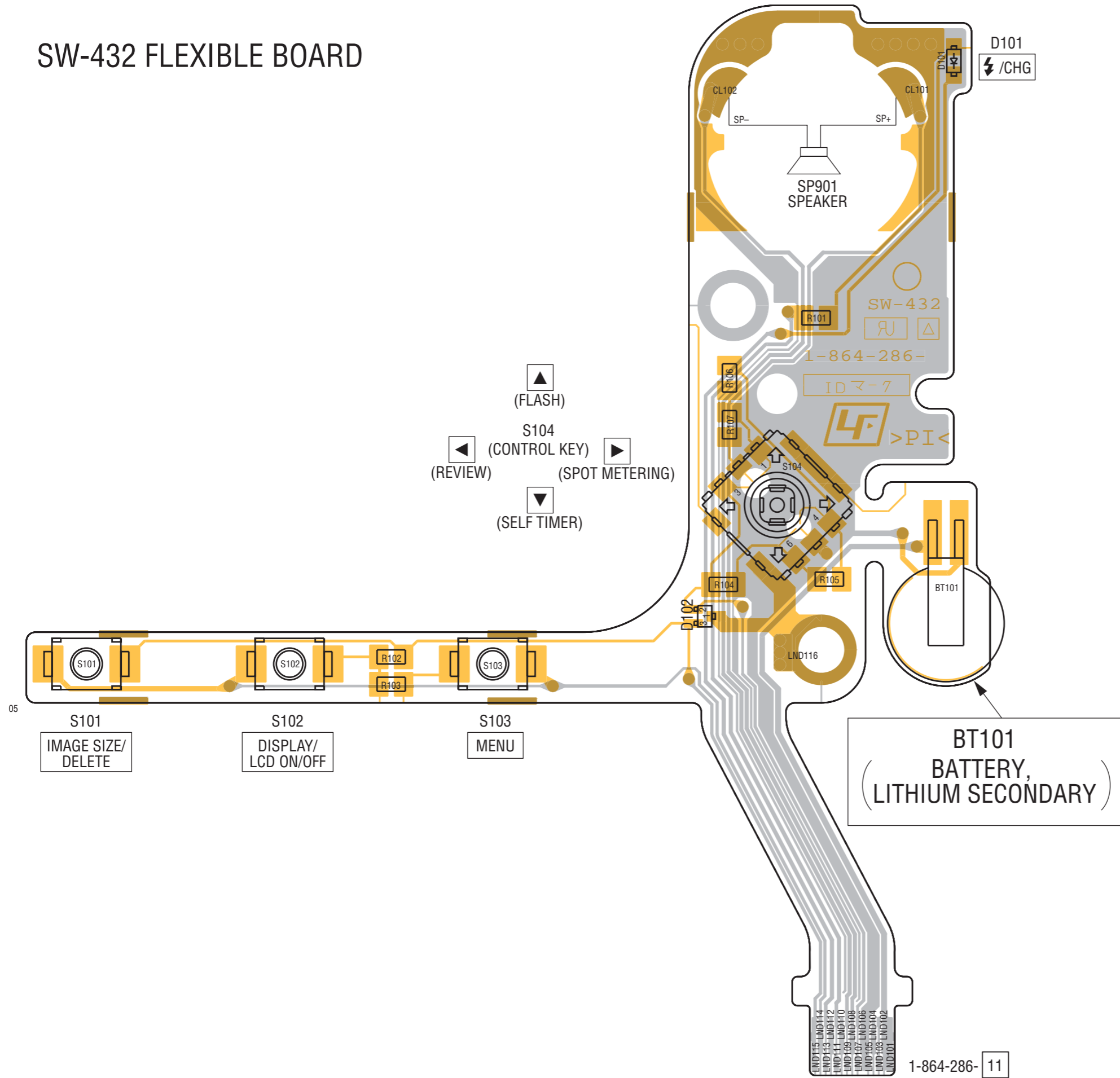


SW-432 FLEXIBLE

Note for Printed Wiring Board (See page 4-35).

 : Uses unleaded solder.

SW-432 FLEXIBLE BOARD



05


LND115 LND114
LND113 LND112
LND111 LND110
LND109 LND108
LND107 LND106
LND105 LND104
LND103 LND102
LND101

1-864-286- 11

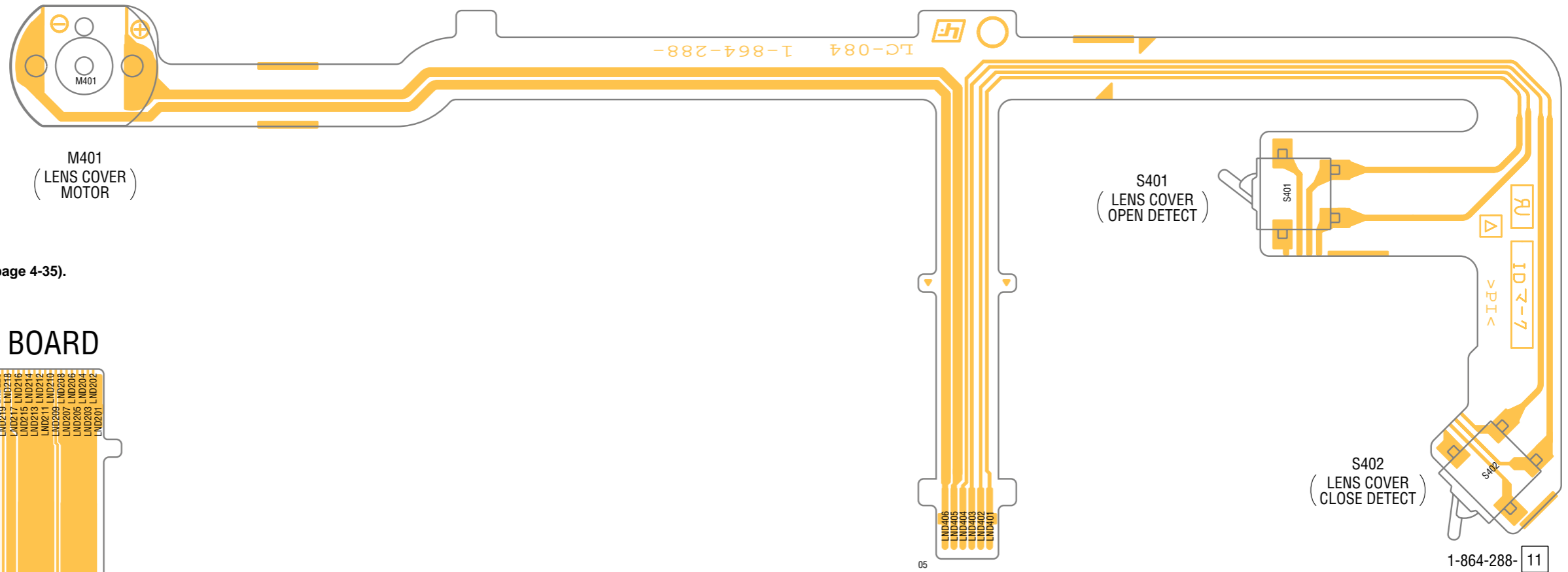
CAUTION
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.

LC-084 FLEXIBLE

Note for Printed Wiring Board (See page 4-35).

 : Uses unleaded solder.

LC-084 FLEXIBLE BOARD

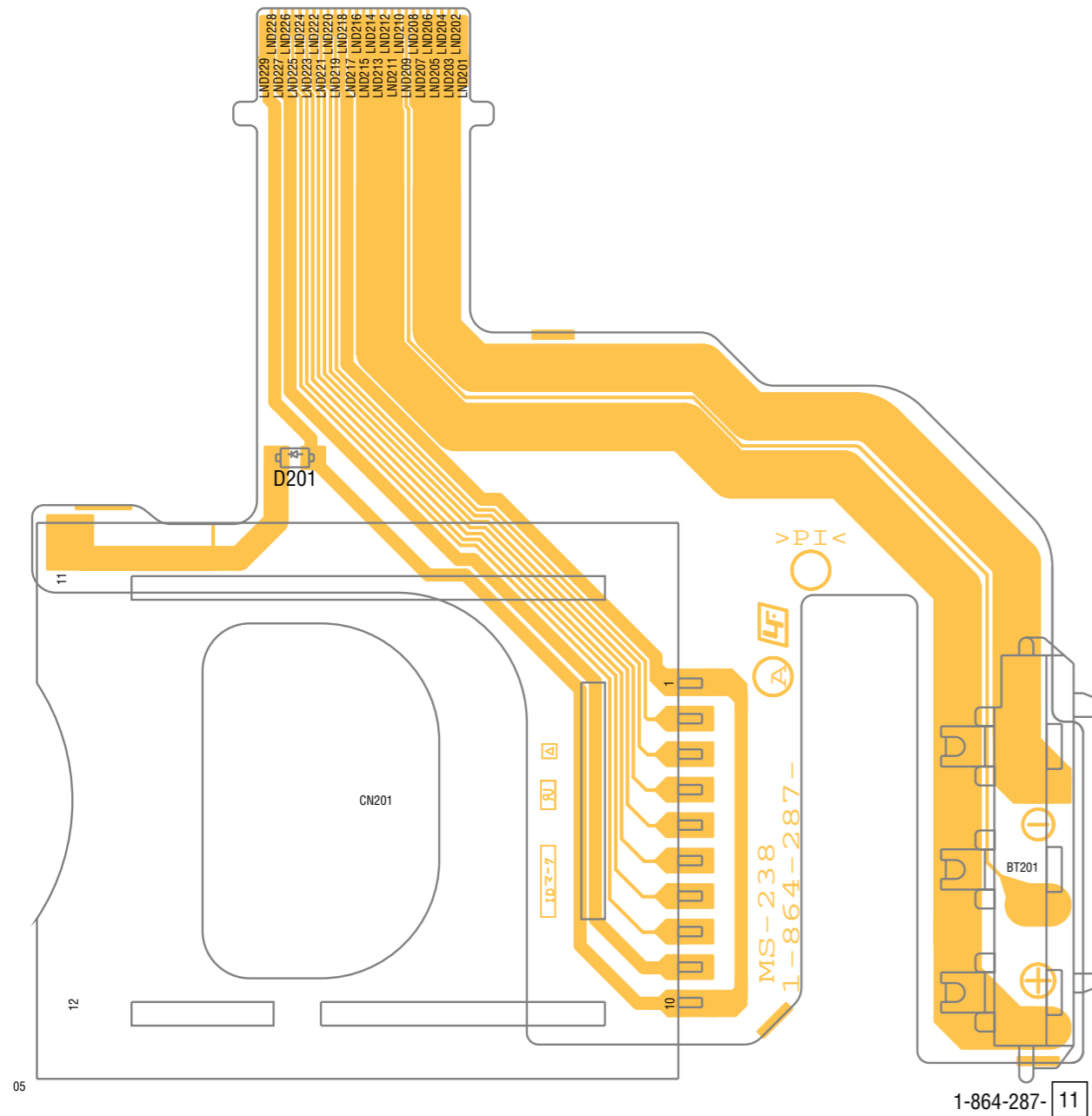


MS-238 FLEXIBLE

Note for Printed Wiring Board (See page 4-35).

 : Uses unleaded solder.

MS-238 FLEXIBLE BOARD



Waveforms of the SY-110 board are not shown.
Page 4-49 and 4-50 are not shown.

Mounted parts location of the SY-110 board is not shown.
Page 4-51 is not shown.

4-3. PRINTED WIRING BOARDS

4-5. MOUNTED PARTS LOCATION

no mark : side A

* mark : side B

JK-276 FLEXIBLE BOARD

CN901 B-7
CN903 B-3

D906 B-5

FB901 B-7
FB902 B-7
FB903 B-4

J901 A-7

LF901 B-7

R901 A-4
R904 B-4
R905 B-1
R906 B-3
R907 B-2
R908 B-2
R909 A-6

S901 A-5
S902 B-2
S903 B-3
S904 B-1
S905 B-1

ST-109 FLEXIBLE BOARD

C001 D-3
C002 D-3
C003 C-3
C004 C-4
C005 C-3
C009 D-2
C050 A-1

D001 C-4
D002 C-2

IC001 C-3

L001 C-3

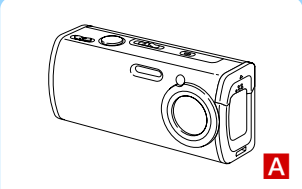
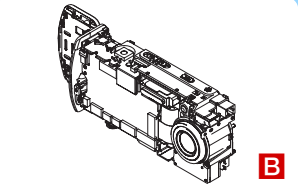
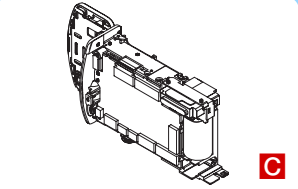
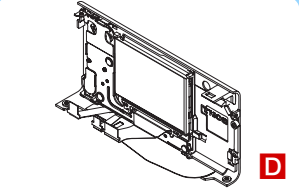
Q001 C-4
Q002 C-3
Q003 C-4
Q004 C-4
Q005 C-4
Q006 C-1
Q007 C-3

R001 C-4
R002 C-3
R003 C-3
R004 C-3
R006 C-3
R007 C-4
R010 C-1
R011 C-1
R012 C-2

T001 C-2

5. REPAIR PARTS LIST

NOTE: Characters **A** to **Z** of the electrical parts list indicate location of exploded views in which the desired part is shown.

Link	EXPLODED VIEWS			
				
CABINET (FRONT) BLOCK	CABINET (UPPER) BLOCK	BATTERY HOLDER BLOCK	CABINET (REAR) BLOCK	

Link	ELECTRICAL PARTS LIST			ACCESSORIES
CD-526 FLEXIBLE BOARD B	LC-084 FLEXIBLE BOARD A	ST-109 FLEXIBLE BOARD C		
JK-276 FLEXIBLE BOARD B	MS-238 FLEXIBLE BOARD C	SW-432 FLEXIBLE BOARD D		

5. REPAIR PARTS LIST

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
AUS : Australian model
CH : Chinese model
CND : Canadian model
HK : Hong Kong model
J : Japanese model
JE : Tourist model
KR : Korean 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.

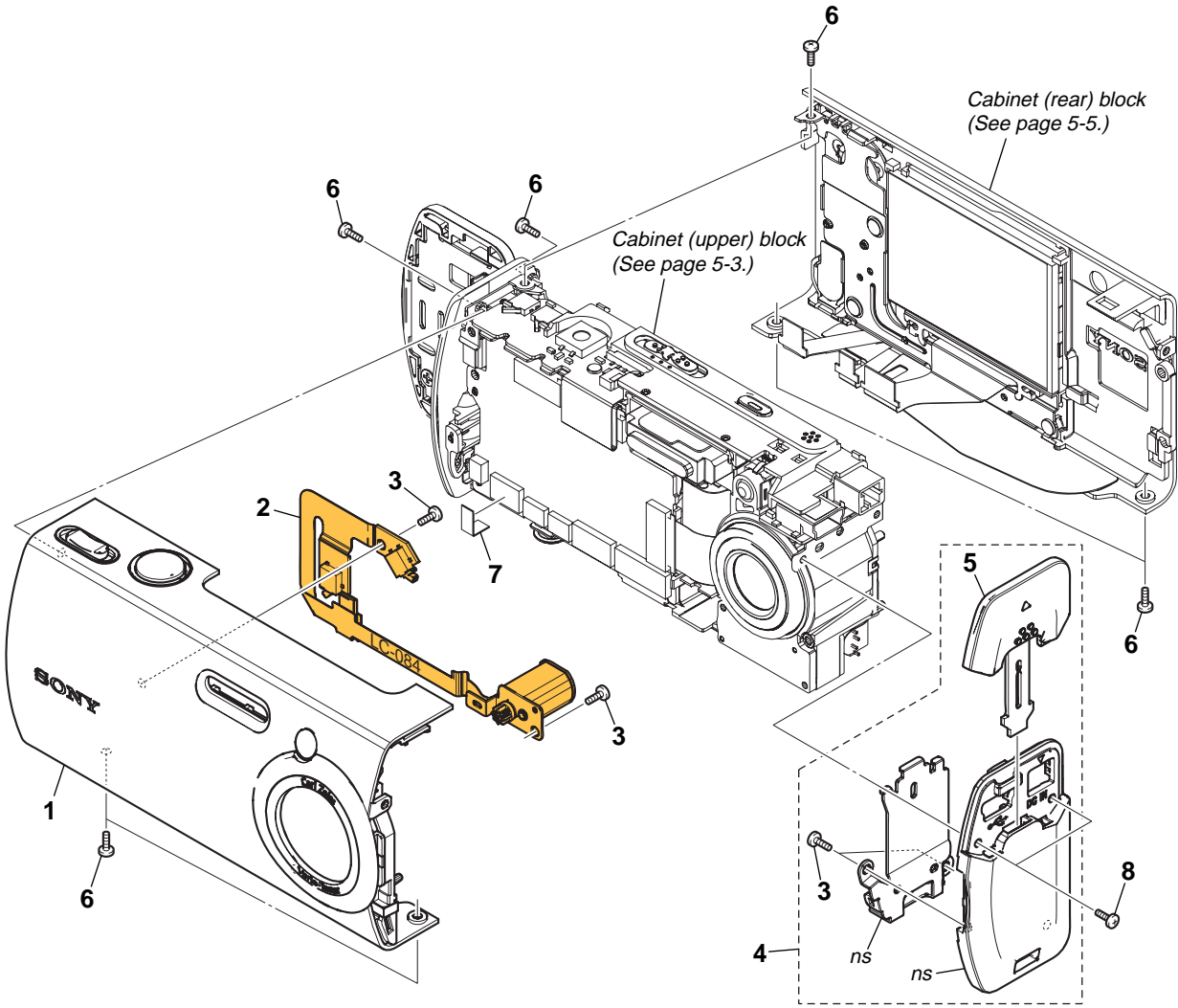
Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

5. REPAIR PARTS LIST

5-1. EXPLODED VIEWS

5-1-1. CABINET (FRONT) BLOCK

ns: not supplied



Ref. No.	Part No.	Description
1	X-2023-478-1	CABINET (FRONT) (BK) ASSY (BLACK)
1	X-2023-476-1	CABINET (FRONT) (BL) ASSY (BLUE)
1	X-2023-477-1	CABINET (FRONT) (RE) ASSY (RED)
1	X-2023-334-1	CABINET (FRONT) ASSY (SILVER)
2	A-1076-288-A	LC-084 FLEXIBLE BOARD, COMPLETE
3	3-078-890-61	SCREW, TAPPING

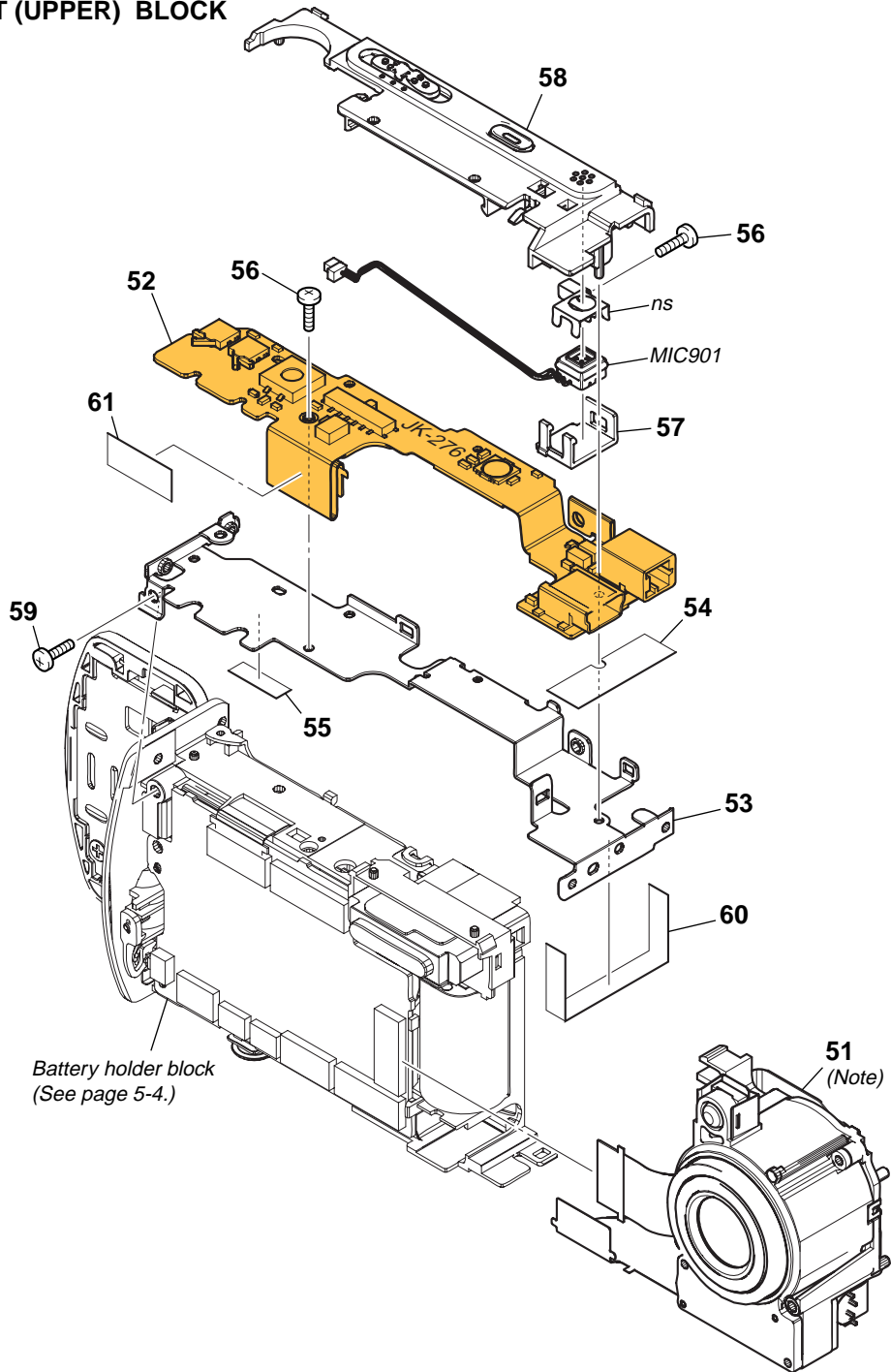
Ref. No.	Part No.	Description
4	X-2023-338-1	CABINET (RIGHT) ASSY
5	2-179-381-01	COVER, JACK
6	3-389-523-28	SCREW (LOCK ACE)
7	CAUTION	SHEET (SW), PROTECTION
8	3-086-368-31	SCREW (M1.4), LOCK ACE P2

CAUTION :
 For the part of 7 : SHEET (SW), PROTECTION (2-345-323-01), cut SHEET, MS (3-086-128-01) into the desired length and use it.

5. REPAIR PARTS LIST

5-1-2. CABINET (UPPER) BLOCK

ns: not supplied



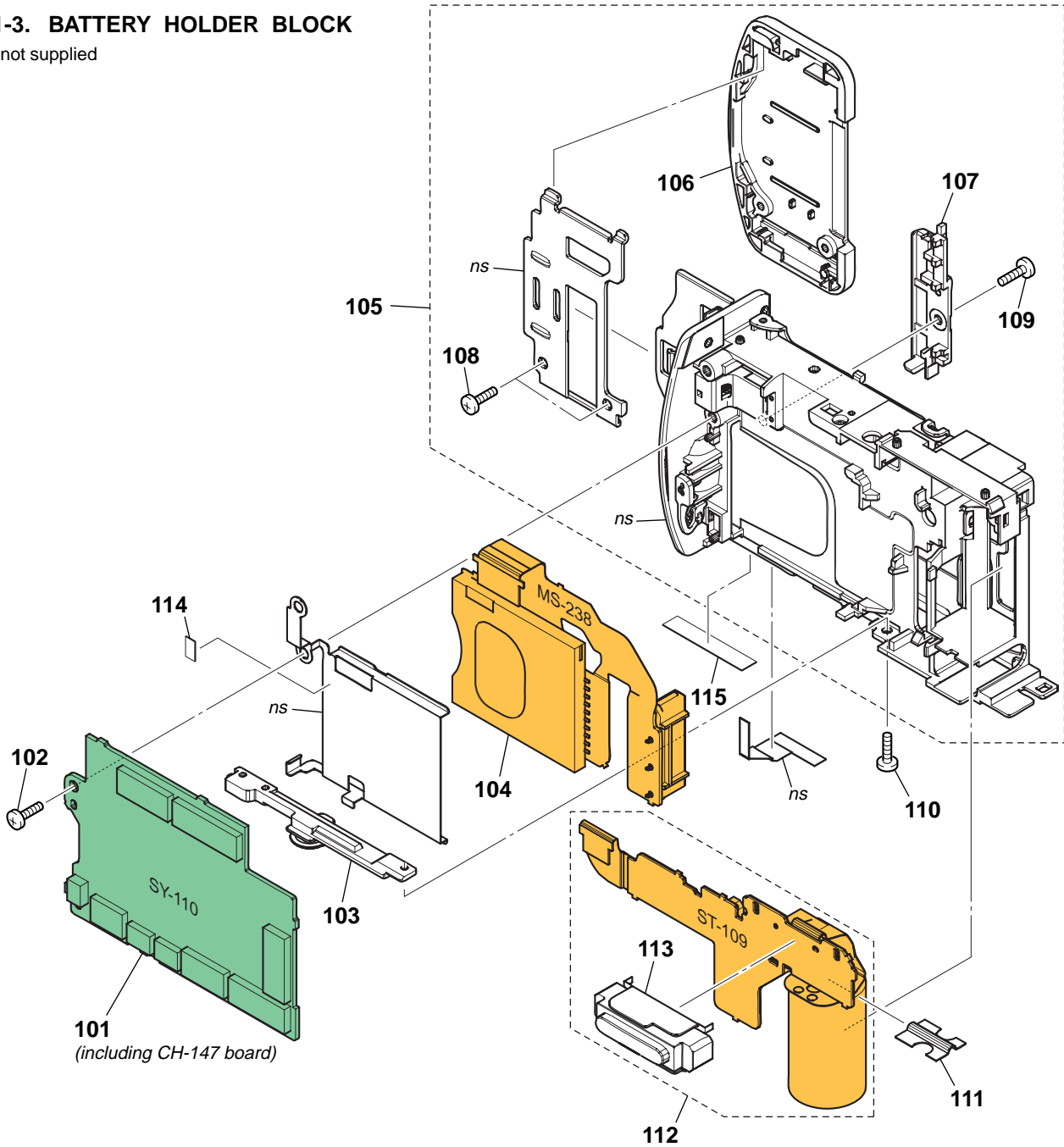
(Note) Cautions are required for the handling of lens block. Refer to "THE CAUTIONS AT THE TIME OF LENS BLOCK HANDLING" on page 1-2, when you exchange.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
51	A-1082-627-A	LENS BLOCK ASSY (950A (J1)) (Including CD-526 flexible board) (Note)	57	2-179-354-01	HOLDER, MICROPHONE
52	A-1076-284-A	JK-276 FLEXIBLE BOARD, COMPLETE	58	X-2023-336-1	CABINET (UPPER) ASSY
53	2-179-353-01	FRAME (UPPER), INNER	59	3-078-890-61	SCREW, TAPPING
54	2-188-859-01	SHEET (JK), INSULATING	60	2-348-473-01	SHEET (JK), RADIATION
55	2-179-279-01	SHEET (I), RADIATION	61	2-546-565-02	WOVEN (JK), FABRIC NON
56	3-389-523-28	SCREW (LOCK ACE)	MIC901	1-542-600-11	MICROPHONE UNIT

5. REPAIR PARTS LIST

5-1-3. BATTERY HOLDER BLOCK

ns: not supplied



<p>The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.</p>	<p>Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p>
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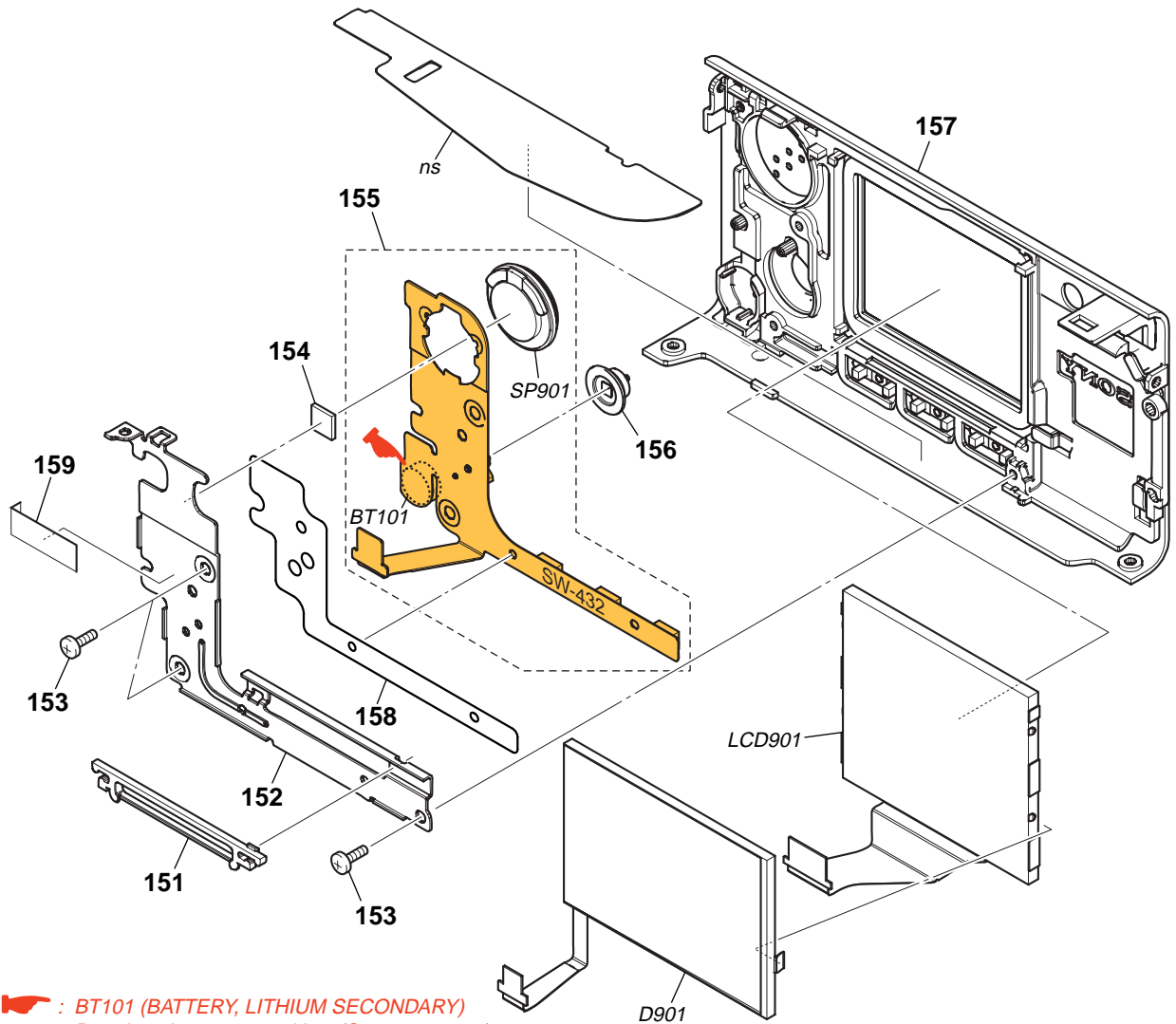
Ref. No.	Part No.	Description
101	A-1085-230-A	SY-110 BOARD, COMPLETE (SERVICE) (including CP151 (CH-147 board)) (EXCEPT J)
101	A-1086-971-A	SY-110 BOARD, COMPLETE (SERVICE) (including CP151 (CH-147 board)) (J)
102	3-078-890-61	SCREW, TAPPING
103	2-179-362-01	HOLDER, TRIPOD
104	A-1076-287-A	MS-238 FLEXIBLE BOARD, COMPLETE
105	X-2023-337-1	HOLDER ASSY, BATTERY
106	2-179-372-01	LID, BT

Ref. No.	Part No.	Description
107	2-179-366-01	HOOK, STRAP
108	2-179-275-01	SCREW, HEAD (2 LOCK) TAPPING
109	3-389-523-28	SCREW (LOCK ACE)
110	3-086-368-31	SCREW (M1.4), LOCK ACE P2
111	2-179-348-01	SHEET, HIGH VOLTAGE PROTECTION
\triangle 112	A-1076-285-A	ST-109 FLEXIBLE BOARD, COMPLETE
\triangle 113	1-478-972-11	FLASH UNIT
114	2-318-913-01	SHEET, LIGHT INTERCEPTION
115	2-546-613-01	WOVEN (BT), FABRIC NON

5. REPAIR PARTS LIST

5-1-4. CABINET (REAR) BLOCK

ns: not supplied



: BT101 (BATTERY, LITHIUM SECONDARY)
Board on the mount position. (See page 4-45.)

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

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.

Ref. No.	Part No.	Description
151	2-179-340-01	GUIDE, LCD FLEXIBLE
152	2-179-336-01	PLATE, SW
153	3-078-890-61	SCREW, TAPPING
154	2-179-338-01	SHEET (SPEAKER), ADHESIVE
155	A-1076-286-A	SW-432 FLEXIBLE BOARD, COMPLETE
156	2-179-339-01	KNOB, FUNCTION
157	X-2023-482-1	CABINET (REAR) (BK) ASSY (BLACK)
157	X-2023-480-1	CABINET (REAR) (BL) ASSY (BLUE)

Ref. No.	Part No.	Description
157	X-2023-481-1	CABINET (REAR) (RE) ASSY (RED)
157	X-2023-335-1	CABINET (REAR) ASSY (SILVER)
158	2-179-337-01	SHEET (SW), ADHESIVE
159	2-348-474-01	SHEET (SW), ELECTROSTATIC
\triangle BT101	1-528-999-61	BATTERY, LITHIUM SECONDARY
D901	1-478-823-11	BLOCK, LIGHT GUIDE PLATE (1.5)
LCD901	8-753-219-98	ACX536AK-J
SP901	1-825-945-11	LOUDSPEAKER (1.3CM)

CD-526

5-2. ELECTRICAL PARTS LIST

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
	A-1082-627-A	LENS BLOCK ASSY (950A (J1)) (Note)
	(Not supplied)	CD-526 FLEXIBLE BOARD, COMPLETE (Note)

		(Lens block assy (950A (J1)) is including CD-526 flexible board.)

Electrical parts list of the CH-147 board is not shown.
Pages 5-7 is not shown.

(Note) Cautions are required for the handling of lens block. Refer to "THE CAUTIONS AT THE TIME OF LENS BLOCK HANDLING" on page 1-2, when you exchange.

JK-276

LC-084

MS-238

ST-109

Ref. No.	Part No.	Description
	A-1076-284-A	JK-276 FLEXIBLE BOARD, COMPLETE *****
		< CONNECTOR >
CN901	1-816-112-41	CONNECTOR, SQUARE TYPE (USB) 5P (USB) (Note)
CN903	1-794-375-21	PIN, CONNECTOR 2P < DIODE >
D906	8-719-063-83	DIODE SML-510MWT86 (POWER) < FERRITE BEAD >
△ FB901	1-400-703-21	(3216, EMI FERRITE (SMD)
△ FB902	1-400-703-21	(3216, EMI FERRITE (SMD)
FB903	1-414-228-11	INDUCTOR, FERRITE BEAD < JACK >
△ J901	1-817-331-11	DC JACK 5P (DC IN) (Note) < LINE FILTER >
LF901	1-456-583-11	COMMON MODE CHOKE COIL < RESISTOR >
R901	1-216-821-11	METAL CHIP 1K 5% 1/10W
R904	1-216-812-11	METAL CHIP 180 5% 1/10W
R905	1-216-822-11	METAL CHIP 1.2K 5% 1/10W
R906	1-218-849-11	METAL CHIP 1.2K 0.5% 1/10W
R907	1-218-851-11	METAL CHIP 1.5K 0.5% 1/10W
R909	1-216-864-11	SHORT CHIP 0 < SWITCH >
S901	1-786-157-11	SWITCH, TACTILE (POWER)
S902	1-786-370-11	TACTILE SWITCH (SHUTTER)
S903	1-771-487-21	SWITCH, SLIDE (PLAY/STILL/MOVIE)
S904	1-786-707-11	SWITCH, DETECTION (SMD) (ZOOM (T))
S905	1-786-680-21	SWITCH, DETECTION (SMD) (ZOOM (W))
	A-1076-288-A	LC-084 FLEXIBLE BOARD, COMPLETE *****
		< MOTOR >
M401	1-763-818-41	DC MOTOR 8C-033L (LENS COVER MOTOR) < SWITCH >
S401	1-786-180-11	SWITCH, PUSH (1KEY) (LENS COVER OPEN DETECT)
S402	1-786-179-11	SWITCH, PUSH (1KEY) (LENS COVER CLOSE DETECT)
	A-1076-287-A	MS-238 FLEXIBLE BOARD, COMPLETE *****
		< BATTERY TERMINAL >
△ BT201	1-780-061-11	BATTERY TERMINAL BOARD

Ref. No.	Part No.	Description
		< CONNECTOR >
CN201	1-817-913-11	MEMORY STICK DUO CONNECTOR < DIODE >
D201	8-719-056-23	DIODE MA2S111-(K8).SO
△ A-1076-285-A		ST-109 FLEXIBLE BOARD, COMPLETE *****
△ 1-478-972-11		FLASH UNIT < CAPACITOR >
C001	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V
C002	1-100-611-91	CERAMIC CHIP 22uF 20% 6.3V
C003	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V
C004	1-125-837-91	CERAMIC CHIP 1uF 10% 6.3V
C005	1-127-715-91	CERAMIC CHIP 0.22uF 10% 16V
C009	1-137-723-21	CERAMIC CHIP 0.047uF 10% 250V
△ C050	1-112-026-11	ELECT 61uF 99% 315V < DIODE >
D001	8-719-073-01	DIODE MA111-(K8).SO
△ D002	6-500-962-01	DIODE HAU160C030STP < IC >
IC001	6-703-635-01	IC TND721MH5-S-TL-E < COIL >
L001	1-456-619-11	INDUCTOR 2.2uH < TRANSISTOR >
Q001	6-550-119-01	TRANSISTOR DTC144EMT2L
Q002	6-550-528-01	TRANSISTOR UPA650TT-E1-A
△ Q003	6-550-759-01	TRANSISTOR CPH3235-S-TL-E
Q004	6-550-119-01	TRANSISTOR DTC144EMT2L
Q005	8-729-053-57	TRANSISTOR RN1902FE (TPLR3)
△ Q006	6-550-891-01	TRANSISTOR GT8G133 (T2LSONY.Q)
Q007	6-550-238-01	TRANSISTOR DTA114EMT2L < RESISTOR >
R001	1-216-829-11	METAL CHIP 4.7K 5% 1/10W
R002	1-216-845-11	METAL CHIP 100K 5% 1/10W
R003	1-216-833-11	METAL CHIP 10K 5% 1/10W
R004	1-216-829-11	METAL CHIP 4.7K 5% 1/10W
R006	1-216-821-11	METAL CHIP 1K 5% 1/10W
R007	1-216-829-11	METAL CHIP 4.7K 5% 1/10W
R010	1-216-805-11	METAL CHIP 47 5% 1/10W
R011	1-216-857-11	METAL CHIP 1M 5% 1/10W
R012	1-216-121-11	RES-CHIP 1M 5% 1/10W < TRANSFORMER >
△ T001	1-437-737-11	TRANSFORMER, DC-DC CONVERTER

(Note) Refer to "THE METHOD OF ATTACHMENT OF USB AND DC IN JACKS ON THE JK-276 FLEXIBLE BOARD" on page 2-9, when you exchange.

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 spécifié.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			
	A-1076-286-A	SW-432 FLEXIBLE BOARD, COMPLETE	*****		
SP901	1-825-945-11	LOUDSPEAKER (1.3CM)			
		< BATTERY >			
△BT101	1-528-999-61	BATTERY, LITHIUM SECONDARY			
		< DIODE >			
D101	6-500-264-01	DIODE TLYV1021 (T15SOY, F) (FLASH/CHG)			
		< RESISTOR >			
R101	1-216-819-11	METAL CHIP	680	5%	1/10W
R102	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R103	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R104	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R105	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R106	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R107	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
		< SWITCH >			
S101	1-786-675-11	TACTILE SWITCH (IMAGE SIZE/DELETE)			
S102	1-786-675-11	TACTILE SWITCH (DISPLAY / LCD BACKLIGHT ON/OFF)			
S103	1-786-675-11	TACTILE SWITCH (MENU)			
S104	1-786-617-41	SWITCH, TACTILE (CONTROL KEY)			

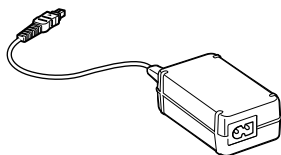
Electrical parts list of the SY-110 board is not shown.
Pages 5-10 to 5-13 are not shown.

<p>The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.</p>	<p>Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p>
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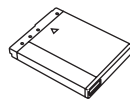
Checking supplied accessories.



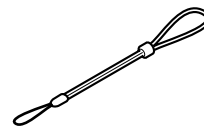
Power cord (1)
 ▲ 1-769-608-11 (AEP, E)
 ▲ 1-782-476-13 (CH)
 ▲ 1-783-374-11 (UK, HK)
 ▲ 1-790-107-22 (US, CND)
 ▲ 1-790-732-12 (JE, J)
 ▲ 1-823-947-11 (KR)
 ▲ 1-827-945-11 (AUS)



AC-LS5/LS5B AC adaptor (1)
 ▲ 1-477-730-52



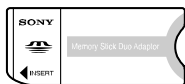
NP-FT1 battery pack (1)
 (not supplied)



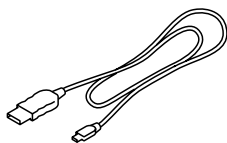
Neck strap (1)
 2-179-269-01



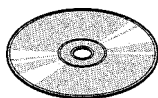
"Memory Stick Duo"
 (16MB) (1)
 (not supplied)



Memory Stick Duo adaptor (1)
 (not supplied)



USB cable (1)
 1-827-038-11



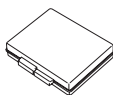
CD-ROM
 (USB driver: SPVD-012) (1)
 2-187-477-01 (US, J)
 2-187-478-01 (EXCEPT US, J)



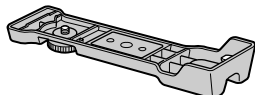
Conversion adaptor (1)
 ▲ 1-569-008-12 (E)



Conversion adaptor (1)
 ▲ 1-569-007-11 (E, JE)



Battery case (1)
 (not supplied)



TAD-LA tripod adaptor (1)
 X-2023-339-1

Other accessories

- 2-186-445-01 MANUAL, INSTRUCTION (for BASIC) (JAPANESE) (J)
- 2-186-445-11 MANUAL, INSTRUCTION (ENGLISH)
 (US, CND, AEP, UK, E, AUS, CH, HK, JE)
- 2-186-445-21 MANUAL, INSTRUCTION (FRENCH, ITALIAN)
 (CND, AEP)
- 2-186-445-31 MANUAL, INSTRUCTION (SPANISH, PORTUGUESE)
 (AEP, E, JE)
- 2-186-445-41 MANUAL, INSTRUCTION (GERMAN, DUTCH) (AEP)
- 2-186-445-51 MANUAL, INSTRUCTION
 (TRADITIONAL CHINESE, SIMPLIFIED CHINESE)
 (E, HK, CH, JE)
- 2-186-445-61 MANUAL, INSTRUCTION (RUSSIAN, SWEDISH) (AEP)
- 2-186-445-71 MANUAL, INSTRUCTION (ARABIC, PERSIAN) (E)
- 2-186-445-81 MANUAL, INSTRUCTION (KOREAN) (KR, JE)
- 2-186-445-91 MANUAL, INSTRUCTION (POLISH, CZECH) (AEP)
- 2-186-446-11 MANUAL, INSTRUCTION (HUNGARIAN, SLOVAK)
 (AEP)
- 2-186-447-01 MANUAL, INSTRUCTION (for APPLICATION)
 (JAPANESE) (J)

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 spécifié.

DSC-L1

SONY®

LEVEL 2

SERVICE MANUAL

Ver 1.1 2004.11

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

SUPPLEMENT-1

File this supplement with the service manual.
(PV04-021)

- Addition of White Model
- Change of Repair Parts

- Addition of White Model




This supplement covers only differences from models other than white.
Refer to the parts list of original service manual about other parts.

5-1. EXPLODED VIEWS

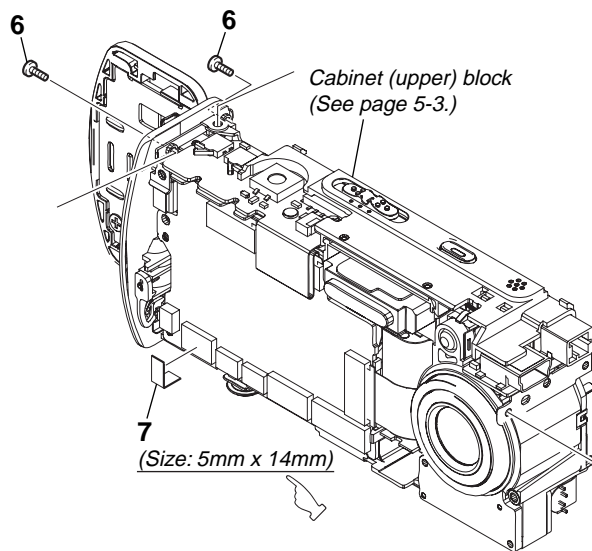
Page	White model		
	Ref. No.	Part No.	Description
5-2	1	X-2048-895-1	CABINET (FRONT) (WH) ASSY (WHITE)
5-5	157	X-2048-898-1	CABINET (REAR) (WH) ASSY (WHITE)

• Change of Repair Parts

5-1. EXPLODED VIEWS

-  : Points added portion.
-  : Points changed portion.
-  : Points deleted portion.

5-1-1. CABINET (FRONT) BLOCK (Service Manual page 5-2)

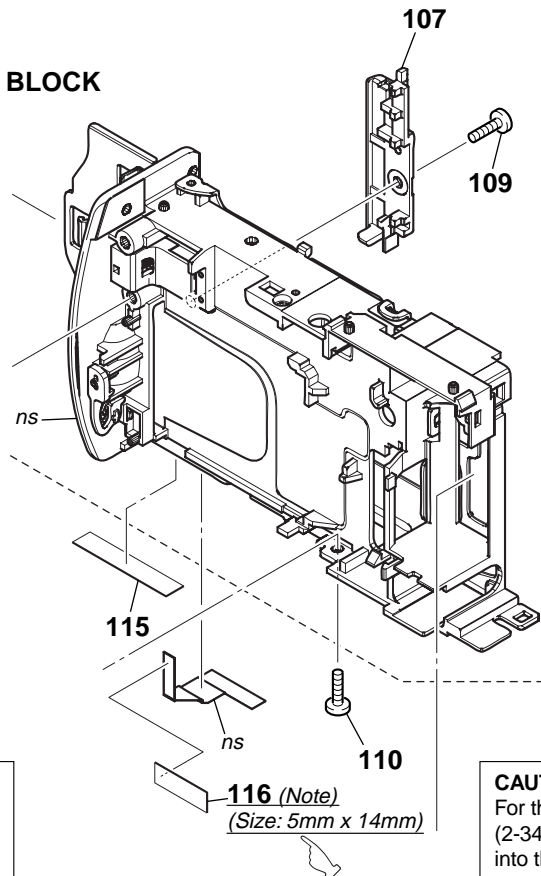


5-1-2. CABINET (UPPER) BLOCK (Service Manual page 5-3)

Former			New		
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
60	2-348-473-01	SHEET (JK), RADIATION	60	2-348-473-02	SHEET (JK), RADIATION

-  : Points added portion.
-  : Points changed portion.
-  : Points deleted portion.

5-1-3. BATTERY HOLDER BLOCK
(Service Manual page 5-4)

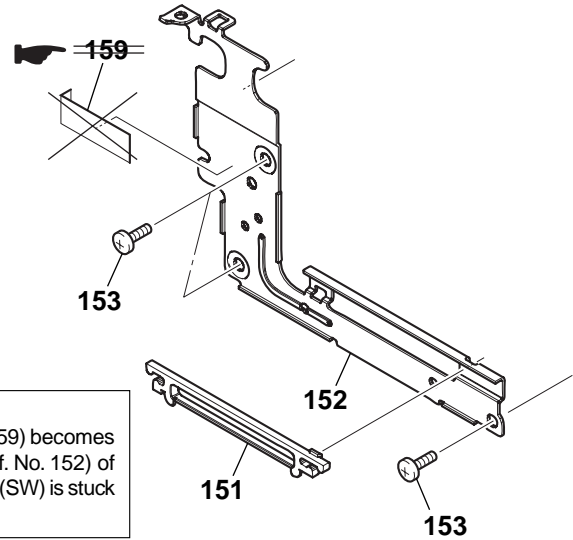


Note:
The set with which the protection sheet (SW) is not stuck should stick the protection sheet (SW).

CAUTION :
For the part of 116 : SHEET (SW), PROTECTION (2-345-323-01), cut SHEET, MS (3-086-128-01) into the desired length and use it.

Former			New		
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
—	—	—	116	CAUTION	SHEET (SW), PROTECTION (Note)

5-1-4. CABINET (REAR) BLOCK
(Service Manual page 5-5)



Note:
The electrostatic sheet (SW) (Ref. No. 159) becomes unnecessary in case the SW plate (Ref. No. 152) of the set with which the electrostatic sheet (SW) is stuck is exchanged.

Former			New		
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
159	2-348-474-01	SHEET (SW), ELECTROSTATIC	159	2-348-474-01	SHEET (SW), ELECTROSTATIC

DSC-L1

SONY®

LEVEL 2

SERVICE MANUAL

Ver 1.2 2004.12

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

SUPPLEMENT-2

File this supplement with the service manual.
(PV04-022)

- Addition of Pink and Violet Models

- Addition of Pink and Violet Models

This supplement covers only differences from models other than pink and violet.
Refer to the parts list of original service manual about other parts.

5-1. EXPLODED VIEWS

Page	Pink and Violet models		
	Ref. No.	Part No.	Description
5-2	1	X-2048-896-1	CABINET (FRONT) (PI) ASSY (PINK)
	1	X-2048-897-1	CABINET (FRONT) (VI) ASSY (VIOLET)
5-5	157	X-2048-899-1	CABINET (REAR) (PI) ASSY (PINK)
	157	X-2048-900-1	CABINET (REAR) (VI) ASSY (VIOLET)

DSC-L1

SONY®

SERVICE MANUAL

Ver 1.3 2005.07

LEVEL 2

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

SUPPLEMENT-3

File this supplement with the service manual.
(PV05-028)

- Change of Repair Parts

5-1. EXPLODED VIEWS

: Points changed portion.

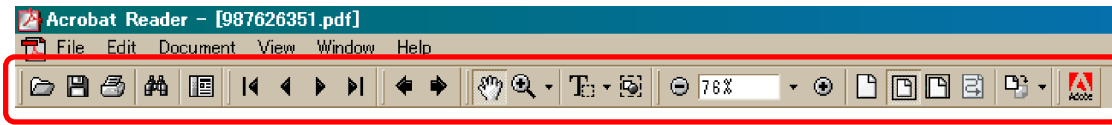
Page	Former			New		
	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
5-2	1	X-2023-478-1	CABINET (FRONT) (BK) ASSY (BLACK)	1	X-2055-896-1	CABINET (FRONT) (BK) ASSY S (BLACK)
	1	X-2023-476-1	CABINET (FRONT) (BL) ASSY (BLUE)	1	X-2055-894-1	CABINET (FRONT) (BL) ASSY S (BLUE)
	1	X-2023-477-1	CABINET (FRONT) (RE) ASSY (RED)	1	X-2055-895-1	CABINET (FRONT) (RE) ASSY S (RED)
	1	X-2023-334-1	CABINET (FRONT) ASSY (SILVER)	1	X-2055-893-1	CABINET (FRONT) ASSY S (SILVER)
	1	X-2048-895-1	CABINET (FRONT) (WH) ASSY (WHITE)	1	X-2055-897-1	CABINET (FRONT) (WH) ASSY S (WHITE)
	1	X-2048-896-1	CABINET (FRONT) (PI) ASSY (PINK)	1	X-2055-898-1	CABINET (FRONT) (PI) ASSY S (PINK)
	1	X-2048-897-1	CABINET (FRONT) (VI) ASSY (VIOLET)	1	X-2055-899-1	CABINET (FRONT) (VI) ASSY S (VIOLET)
5-5	155	A-1076-286-A	SW-432 FLEXIBLE BOARD, COMPLETE	155	A-1118-548-A	SW-432 FLEXIBLE BOARD, COMPLETE

5-2. ELECTRICAL PARTS LIST

: Points changed portion.


Page	Former			New		
	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
5-9		A-1076-286-A	SW-432 FLEXIBLE BOARD, COMPLETE *****		A-1118-548-A	SW-432 FLEXIBLE BOARD, COMPLETE *****

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




Toolbar



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:

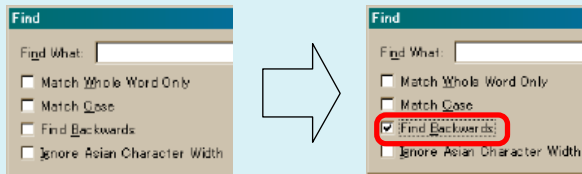
This function allows you to go and back between circuit diagram and printed circuit board diagram, and accordingly it will be convenient for the voltage check.

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.

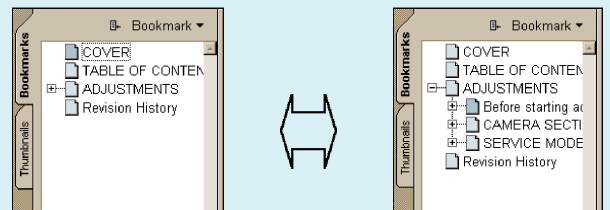
Moving with link

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.

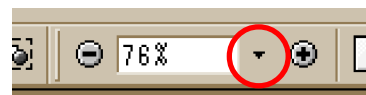
(To go back to original state, click )




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 .

