

DSC-F828

SERVICE MANUAL

LEVEL 2

Ver 1.0 2003.12

Revision History

How to use
Acrobat Reader



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

Link

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

- For ADJUSTMENTS (SECTION 6), refer to SERVICE MANUAL, ADJ (987627951.pdf).
- For INSTRUCTION MANUAL, refer to SERVICE MANUAL, LEVEL 1 (987627941.pdf).
- **Reference No. search on printed wiring boards is available.**
- **When the laser unit is repaired,**
Make sure to follow the items of "NOTE ON HANDLING THE LASER DIODE".

On the SY-096 board

This service manual provides the information that is premised the circuit board replacement service and not intended repair inside the SY-096 board.

Therefore, schematic diagram, printed wiring board, mounted parts location and electrical parts list of the SY-096 board are not shown.

The following pages are not shown.

Schematic diagram	Pages 4-25 to 4-44	Mounted parts location	Pages 4-65 to 4-66
Printed wiring board	Pages 4-59 to 4-62	Electrical parts list	Pages 5-14 to 5-18

DIGITAL STILL CAMERA

SONY®



SPECIFICATIONS

■ Camera

[System]

Image device	11 mm (2/3 type) color CCD 4-color filter (RGBE)
Total pixels number of camera	Approx. 8 314 000 pixels
Effective pixels number of camera	Approx. 8 068 000 pixels
Lens	Carl Zeiss Vario-Sonnar T* 7.1× zoom lens f=7.1 to 51 mm (35 mm camera conversion: 28 to 200 mm) F2.0-2.8 Filter diameter: 58 mm (2 3/8 inches)
Exposure control	Automatic, Shutter speed priority, Aperture priority, Manual exposure, Scene selection (4 modes)
White balance	Automatic, Daylight, Cloudy, Fluorescent, Incandescent, Flash, One-push
File format (DCF compliant)	Still images: Exif Ver. 2.2, JPEG compliant, RAW, TIFF, DPOF compatible Audio with still image: MPEG1 compliant (Monaural) Movies: MPEG1 compliant (Monaural)
Recording medium	“Memory Stick”, Microdrive, CompactFlash card (TypeI/TypeII)
Flash	Recommended distance (when ISO sensitivity is set to Auto) 0.5 to 4.5 m (19 3/4 inches to 14 feet 9 1/4 inches) (W) 0.6 to 3.3 m (23 5/8 inches to 10 feet 10 inches) (T)
Viewfinder	Electric viewfinder (color)

[Output connectors]

A/V OUT (MONO) jack (Monaural)

Minijack

Video: 1 Vp-p, 75 Ω, unbalanced, sync negative

Audio: 327 mV (at a 47 kΩ load)

Output impedance 2.2 kΩ

Accessory jack

Mini-minijack (ø 2.5 mm)

USB jack mini-B

USB communication

Hi-Speed USB (USB 2.0 High-Speed compliant)

[LCD screen]

LCD panel used	4.6 cm (1.8 type) TFT drive
Total number of dots	134 400 (560×240) dots

[Finder]

LCD panel used	1.1 cm (0.44 type) TFT drive
Total number of dots	235 200 (980×240) dots

[Power, general]

Used battery pack	NP-FM50
Power requirements	7.2 V
Power consumption (during shooting with LCD screen on)	2.2 W
Operating temperature range	0° to +40°C (32° to +104°F) (When using the Microdrive: +5° to +40°C (41° to +104°F))
Storage temperature range	-20° to +60°C (-4° to +140°F)
Dimensions (lens: W-end)	134.4 × 91.1 × 157.2 mm (5 3/8 × 3 5/8 × 6 1/4 inches) (W/H/D, protruding portions not included)
Mass	Approx. 955 g (33.7 oz) (battery pack NP-FM50, “Memory Stick,” shoulder strap, lens cap, and so on included)
Microphone	Electret condenser microphone
Speaker	Dynamic speaker
Exif Print	Compatible
PRINT Image Matching II	Compatible
PictBridge	Compatible

■ AC-L15A/L15B AC Adaptor

Power requirements	AC 100 – 240 V, 50/60 Hz
Current consumption	0.35 – 0.18 A
Power consumption	18 W
Output voltage	8.4 V DC, 1.5 A
Operating temperature range	0° to +40°C (32° to +104°F)
Storage temperature range	-20° to +60°C (-4° to +140°F)
Maximum dimensions	Approx. 56 × 31 × 100 mm (2 1/4 × 1 1/4 × 4 inches) (W/H/D), excluding projecting parts
Mass	Approx. 190 g (6.7 oz) excluding power cord (mains lead)

■ NP-FM50 battery pack

Used battery	Lithium-ion battery
Maximum voltage	DC 8.4 V
Nominal voltage	DC 7.2 V
Capacity	8.5 Wh (1 180 mAh)

Accessories

- AC Adaptor (1)
- Power cord (mains lead) (1)
- USB cable (1)
- Battery pack NP-FM50 (1)
- A/V connecting cable (1)
- Shoulder strap (1)
- Lens cap (1)
- Lens cap strap (1)
- Lens hood (1)
- CD-ROM (USB driver: SPVD-013) (1)
- CD-ROM (Image Data Converter) (1)
- Operating Instructions (1)

Design and specifications are subject to change without notice.

CAUTION

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

CAUTION :

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

SAFETY-RELATED COMPONENT WARNING!!

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

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS 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.

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Schematic diagrams of the SY-096 board are not shown.
Pages from 4-25 to 4-44 are not shown.

4-3. PRINTED WIRING BOARDS

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Printed wiring board of the SY-096 board is not shown.
Pages from 4-59 to 4-62 are not shown.

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Mounted parts location of the SY-096 board is not shown.
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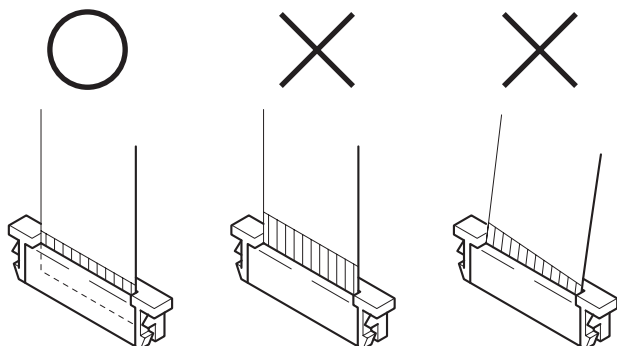
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Parts list of the SY-096 board are not shown.
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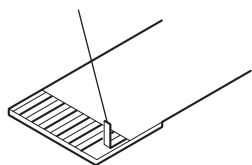
SECTION 1 SERVICE NOTE

1-1. NOTE FOR REPAIR

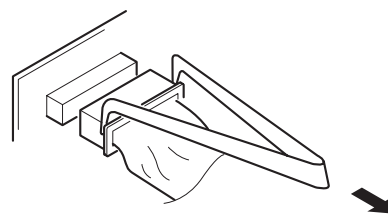
Make sure that the flat cable and flexible board are not cracked or bent at the terminal.
Do not insert the cable insufficiently nor crookedly.



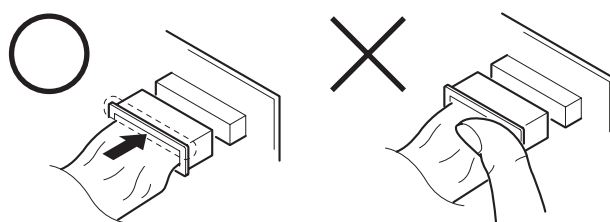
Cut and remove the part of gilt which comes off at the point.
(Take care that there are some pieces of gilt left inside)



When remove a connector, don't pull at wire of connector.
Be in danger of the snapping of a wire.



When installing a connector, don't press down at wire of connector.
Be in danger of the snapping of a wire.

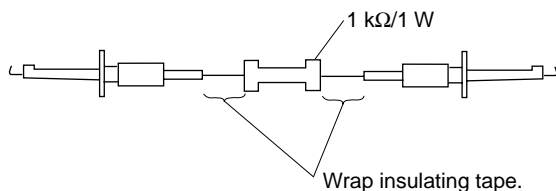


1-2. DISCHARGING OF THE FLASH UNIT'S CHARGING CAPACITOR

The charging capacitor of the FLASH unit 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 DSC-F828 is simply turned off. Therefore, the remaining voltage must be discharged as described below.

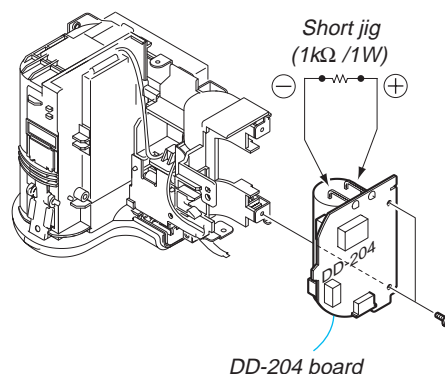
1-2-1. Preparing the Short Jig

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.



1-2-2. Discharging the Capacitor

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



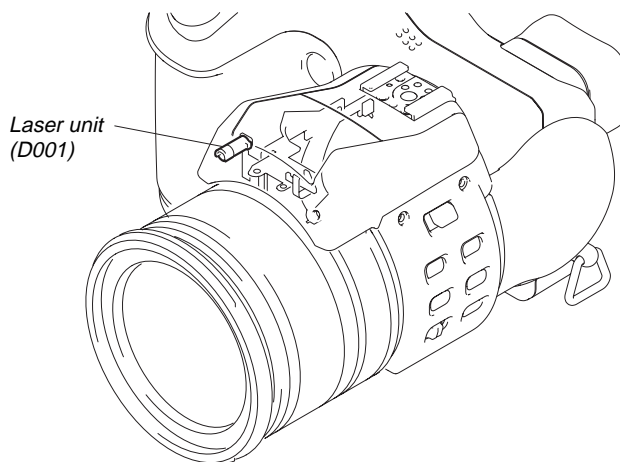
1-3. NOTES ON HANDLING THE LASER DIODE [LASER UNIT]

The laser diode may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

Note: Adjustment is needed when laser unit is replaced. Refer to “21. AF Laser Output Adjustment” (page6-29) and “22. AF Laser Axis Check” (page6-30) of SERVICE MANUAL, ADJ (987627951.pdf).



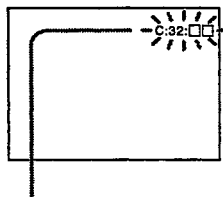
Soldering Conditions of Laser Unit

Temperature of the Soldering Iron	Less than 350 °C
Time to Solder	3 seconds
Interval to Solder	Next terminal is soldered after waiting for 1 second

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: □□: □□
The contents which can be handled by customer, are displayed.
- E: □□: □□
The contents which can be handled by engineer, are displayed.

Display Code	Countermeasure	Cause	Caution Display During Error
C:32:01	Turn off the main power then back on.	Trouble with hardware.	SYSTEM ERROR
C:13:01	Replace the memory stick. Format the memory stick with the DSC-F828.	<ul style="list-style-type: none"> • The type of memory stick that cannot be used by this machine, is inserted. • Data is damaged. • Unformatted memory stick is inserted. 	MEDIA ERROR
E:91:01	Checking of flash unit or replacement of flash unit.	Abnormality when flash is being charged.	Flash LED Flash display Flashing at 3.2 Hz
E:61:00 *1	Checking of lens drive circuit	When failed in the focus initialization.	—
E:61:10 *1			

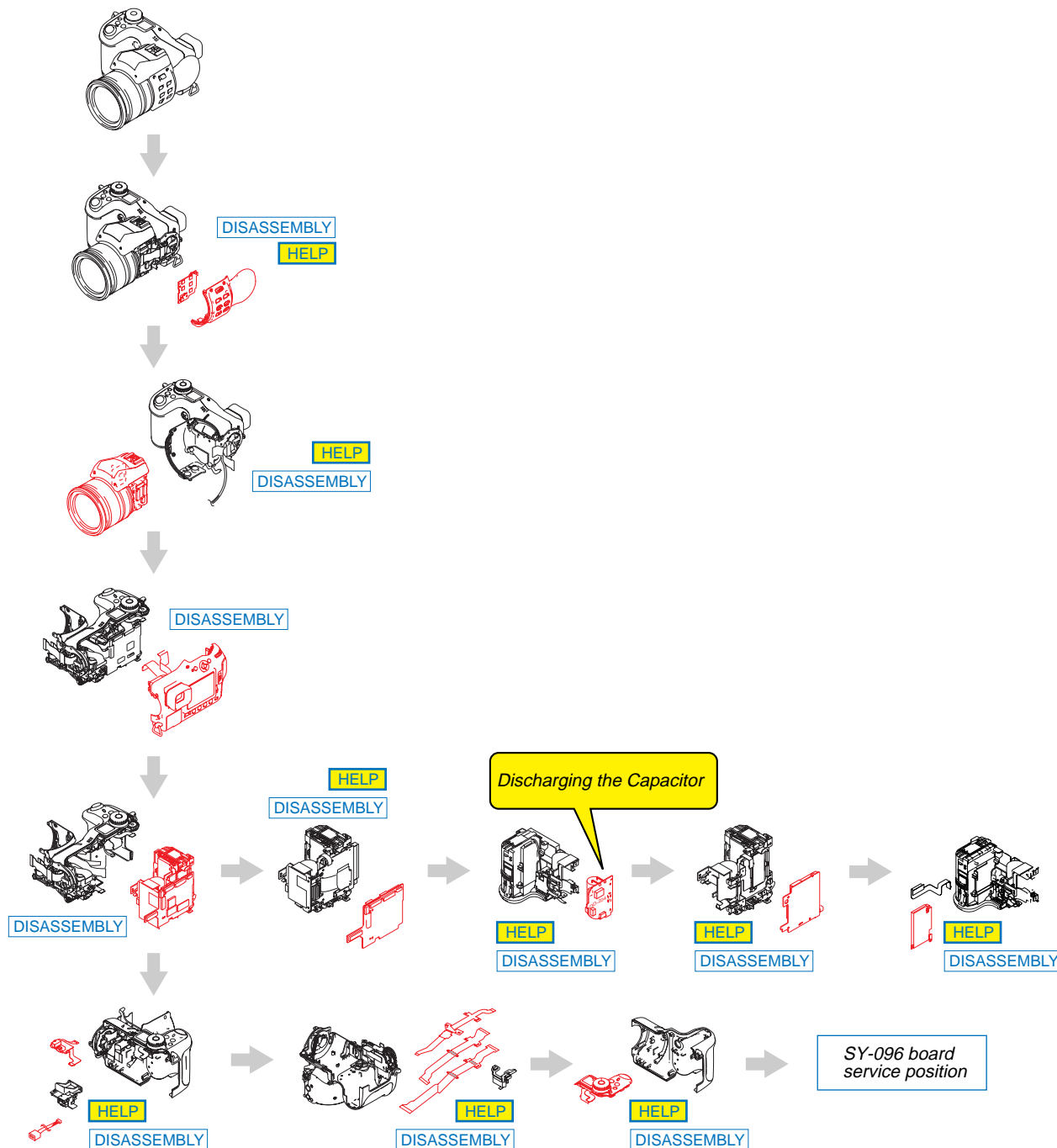
Note : The error code is cleared if the battery is removed, except defective flash unit.

*1: The error display is given in two ways.

SECTION 2 DISASSEMBLY



The following flow chart shows the disassembly procedure.

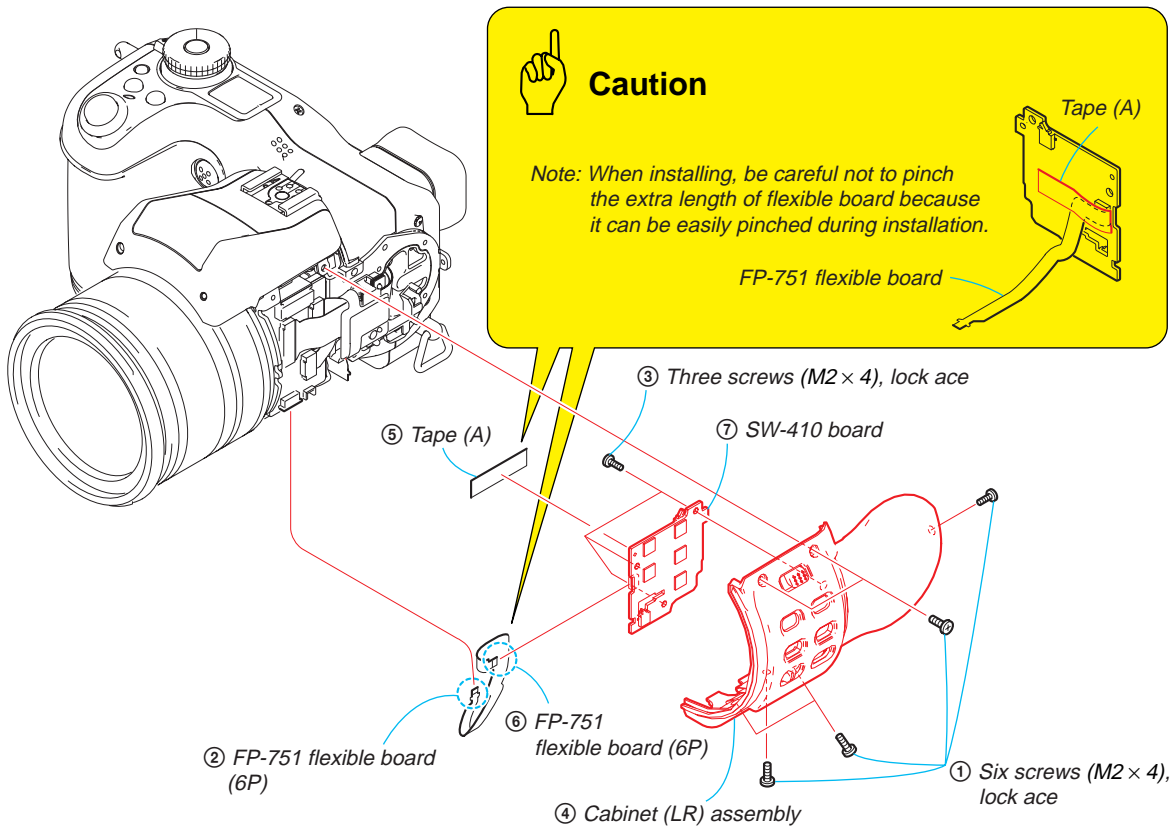


PROCEDURE OF REMOVING THE SY-096 BOARD (SERVICE POSITION)

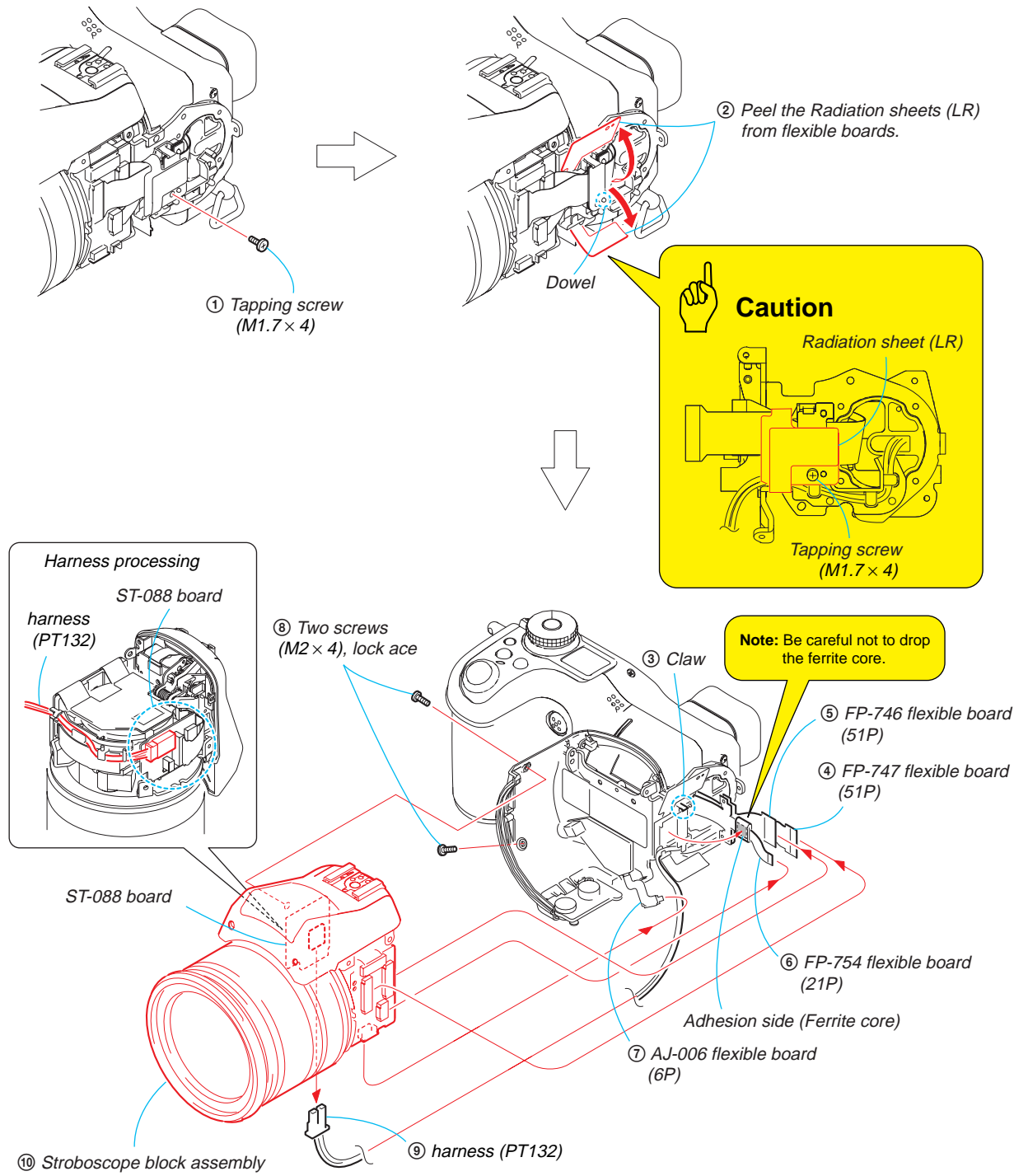
- ① 2-1. CABINET (LR) ASSEMBLY, SW-410 BOARD (page 2-2)
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- ⑪ 2-24. CABINET UPPER ASSEMBLY (page 2-17)

NOTE: Follow the disassembly procedure in the numerical order given.

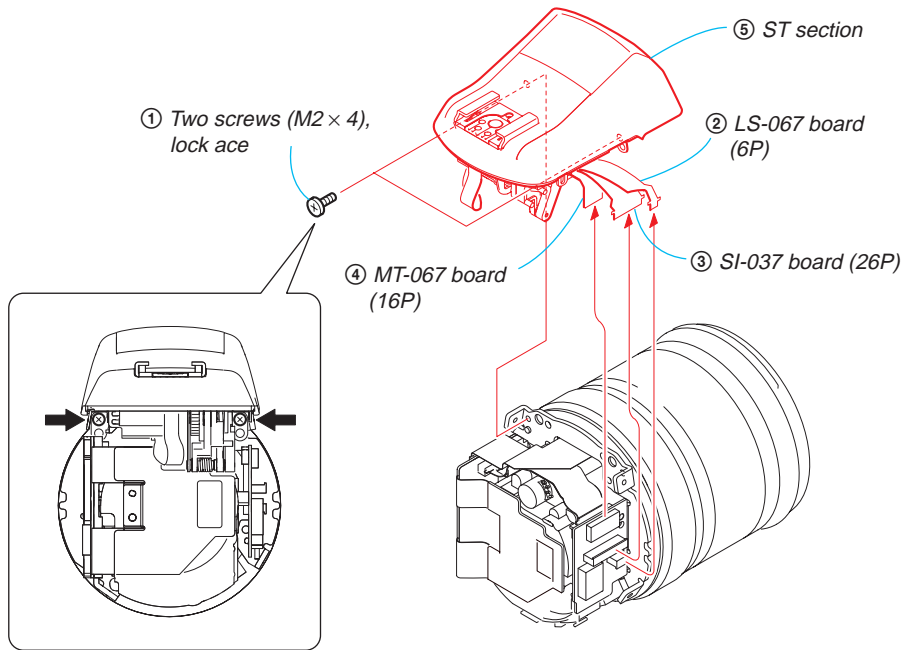
2-1. CABINET (LR) ASSEMBLY, SW-410 BOARD



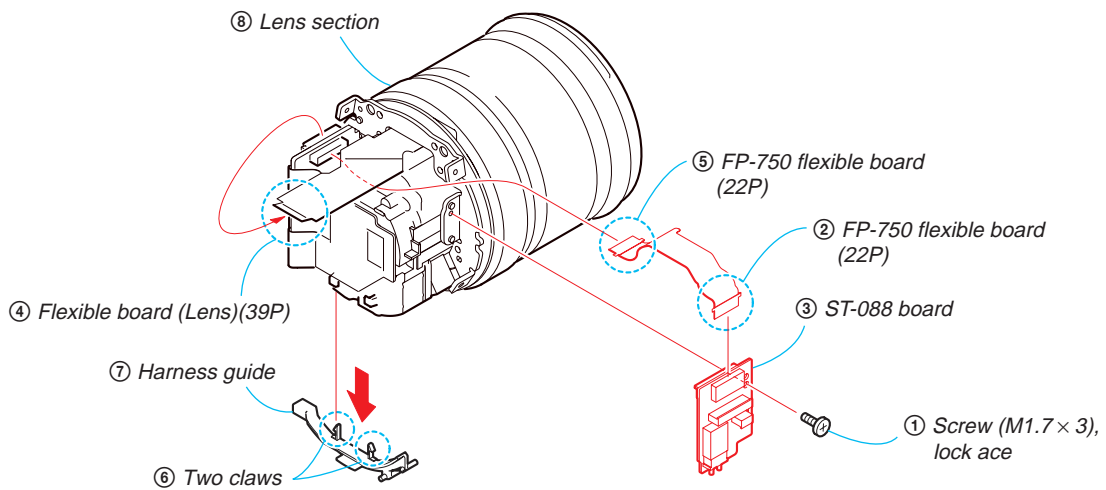
2-2. STROBOSCOPE BLOCK ASSEMBLY



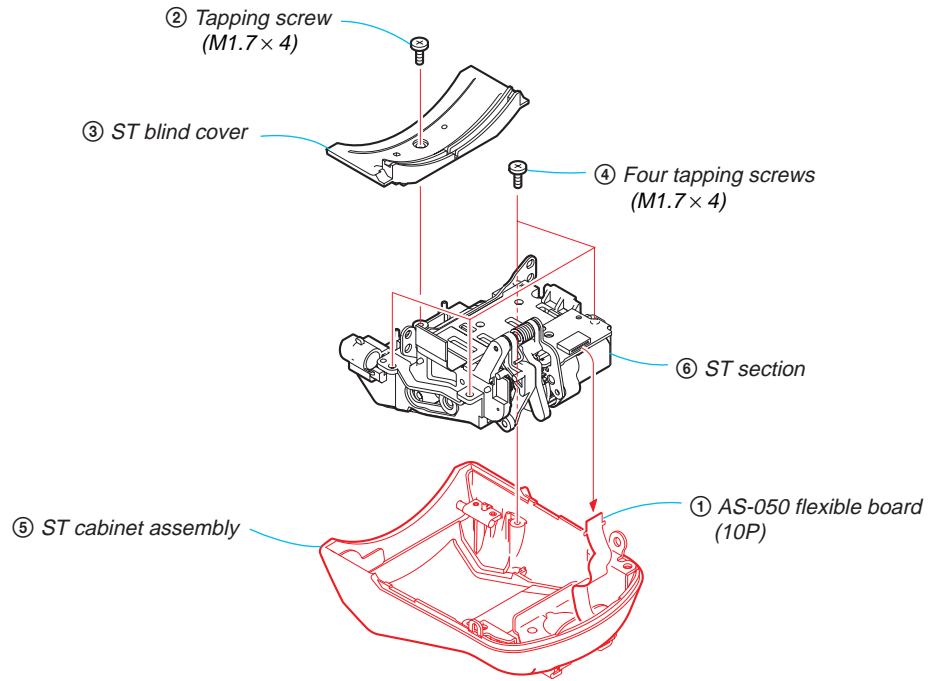
2-3. ST SECTION



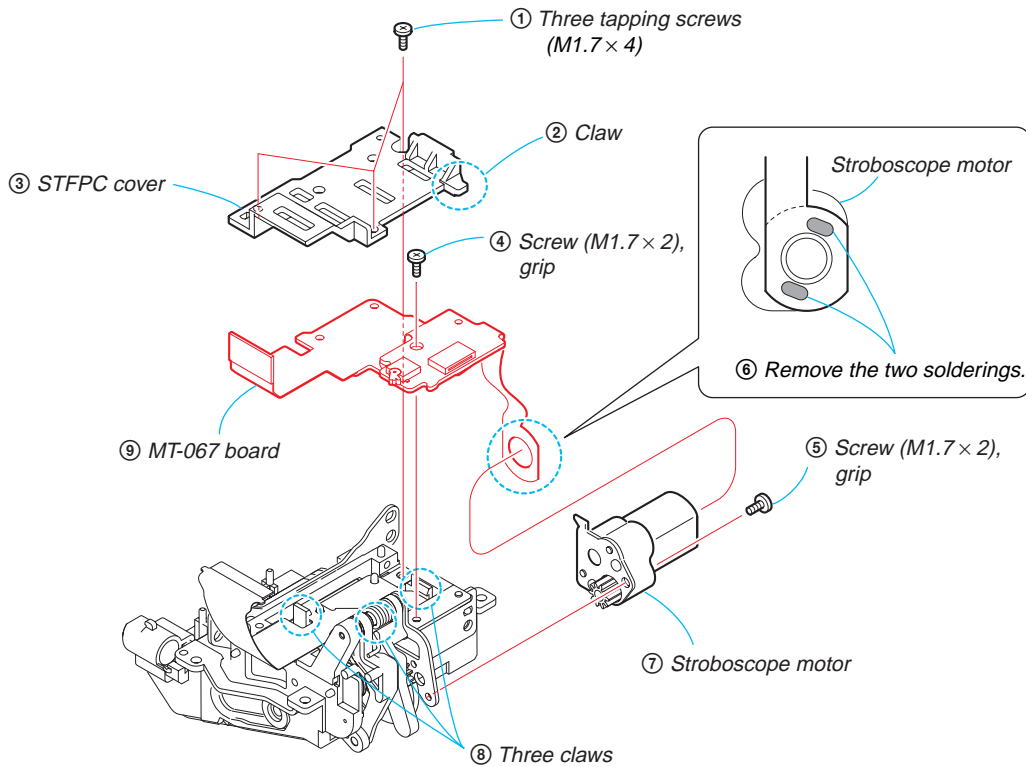
2-4. ST-088 BOARD, LENS SECTION



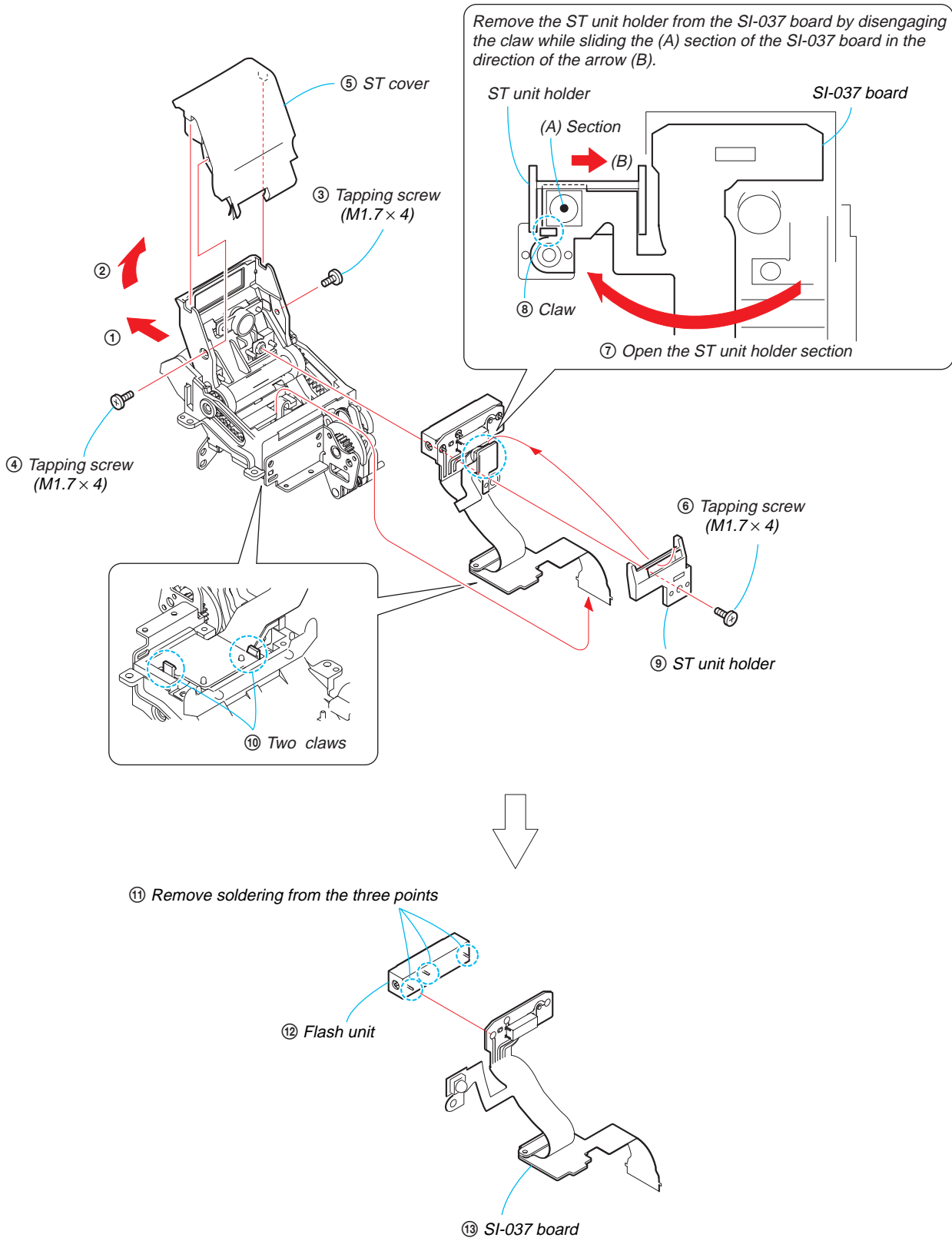
2-5. ST CABINET ASSEMBLY



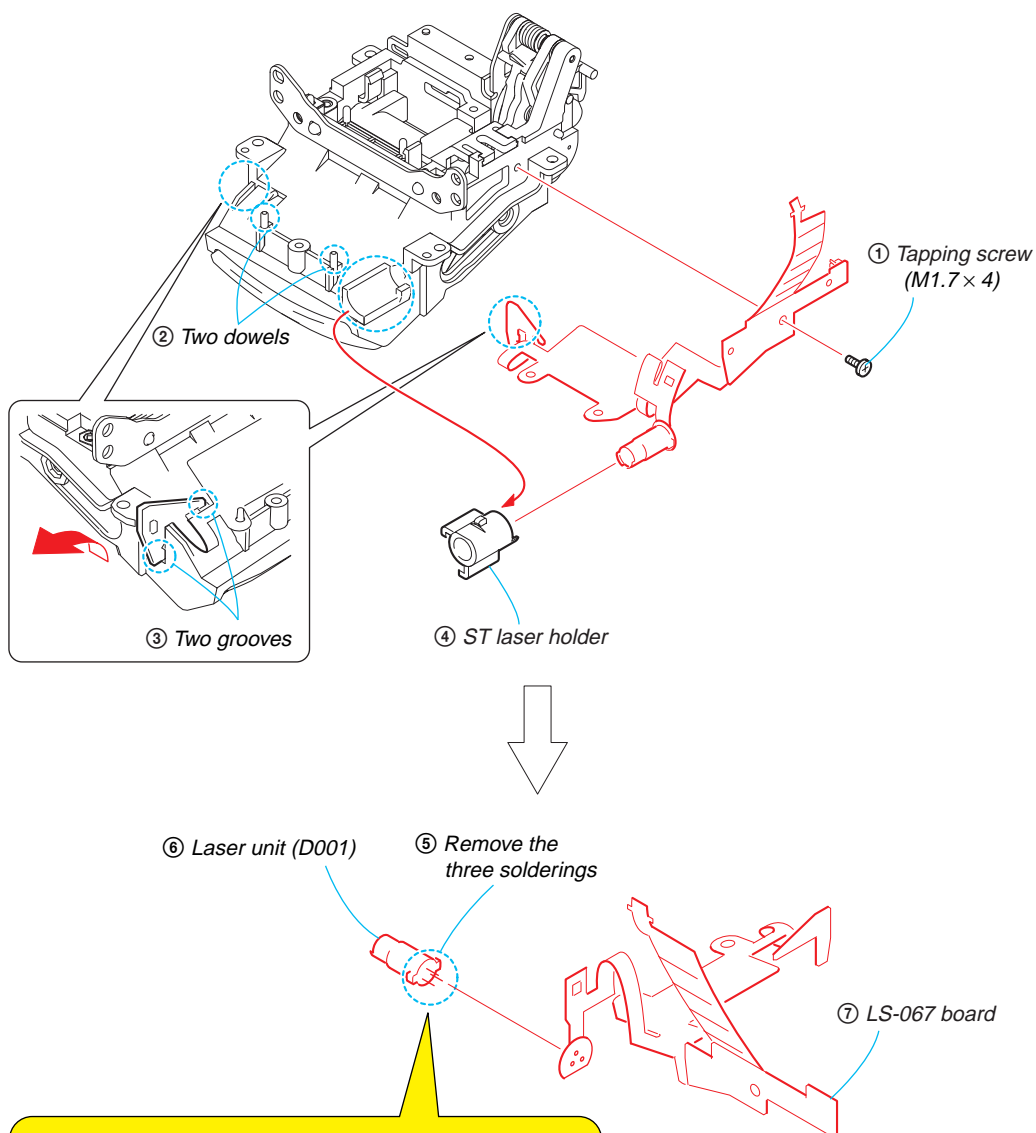
2-6. MT-067 BOARD



2-7. SI-037 BOARD, FLASH UNIT



2-8. LS-067 BOARD, LASER UNIT

**Caution**

When soldering the laser unit on the LS-067 board, observe the following things.

(Refer to Service Note (page 1-2)).

Observe the following conditions of temperature and time of soldering.

Temperature of soldering iron : 350 °C

Time of contacting the soldering : 3 seconds

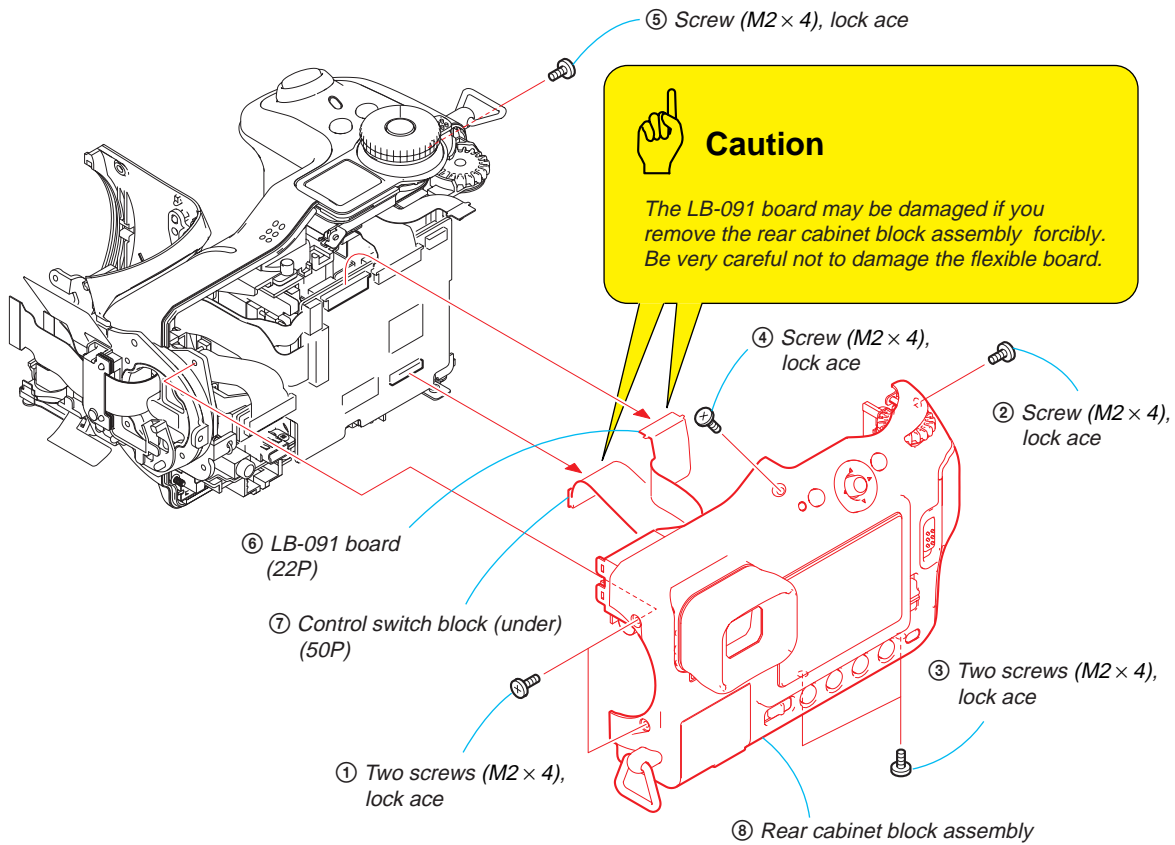
iron with the solder

The laser diode may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

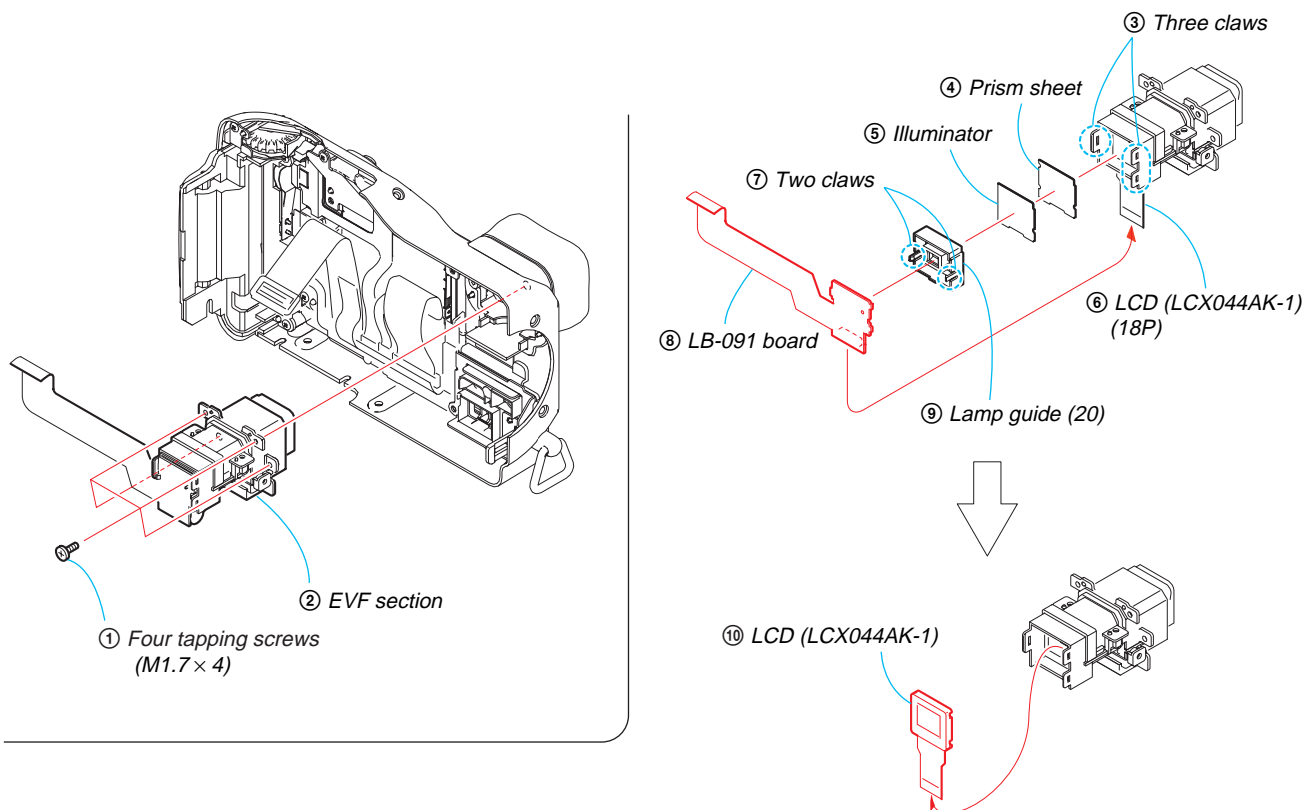
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

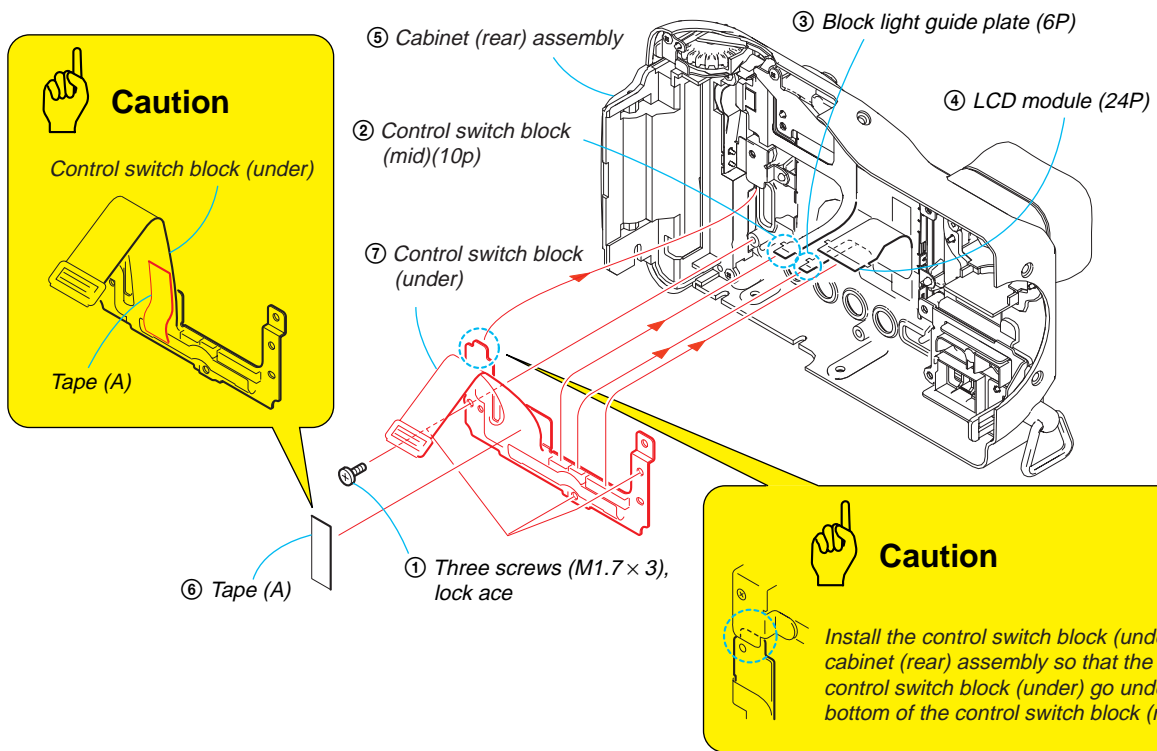
2-9. REAR CABINET BLOCK ASSEMBLY



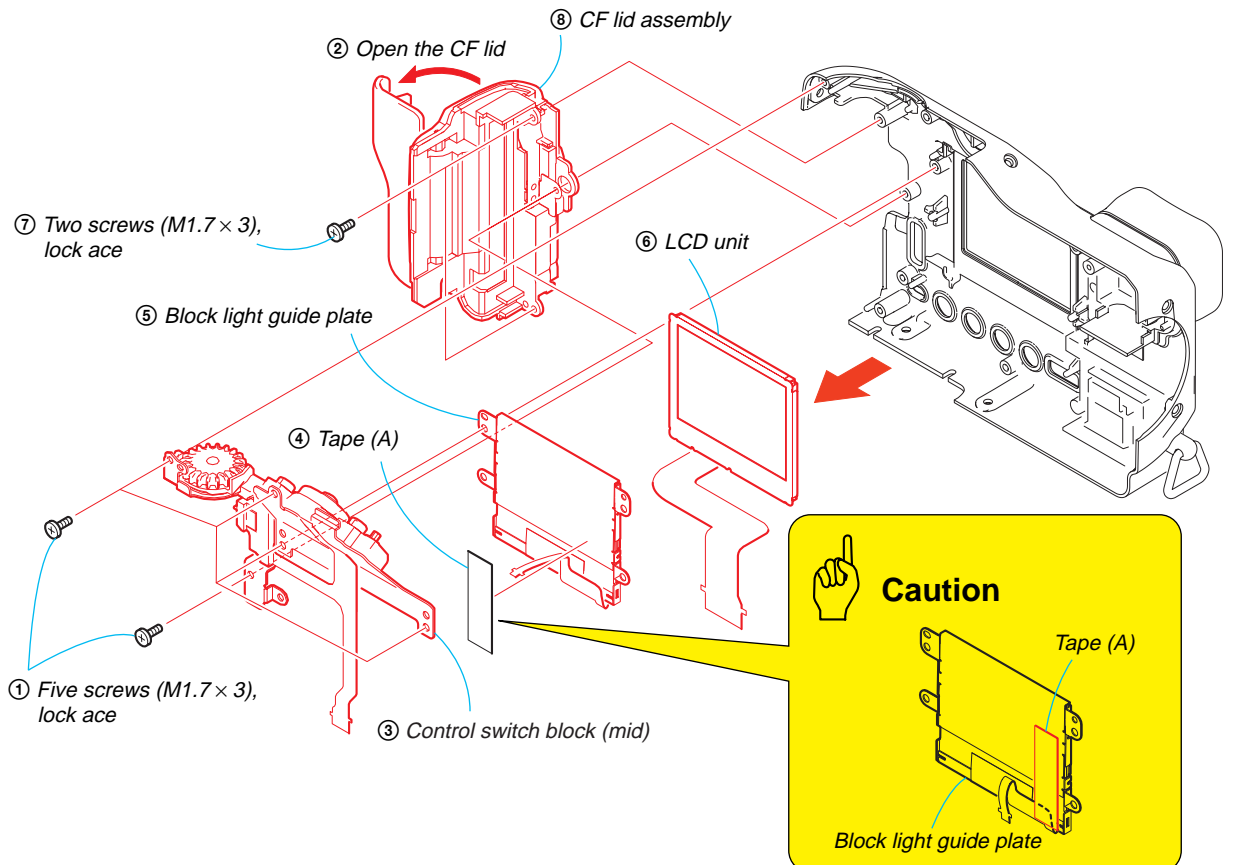
2-10. EVF SECTION



2-11. CONTROL SWITCH BLOCK (UNDER)



2-12. CONTROL SWITCH BLOCK (MID), LCD UNIT

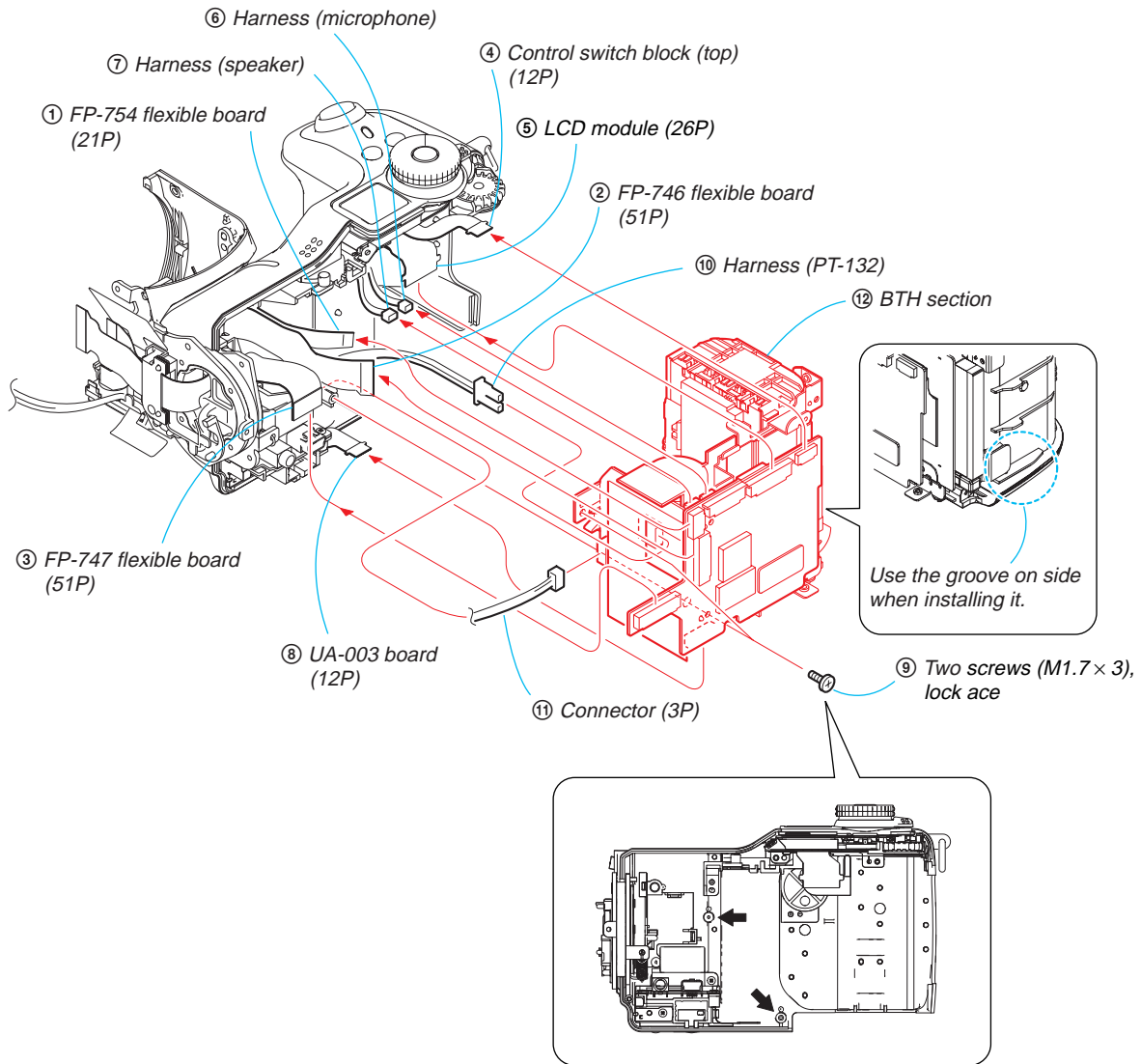


2-13. BTH SECTION

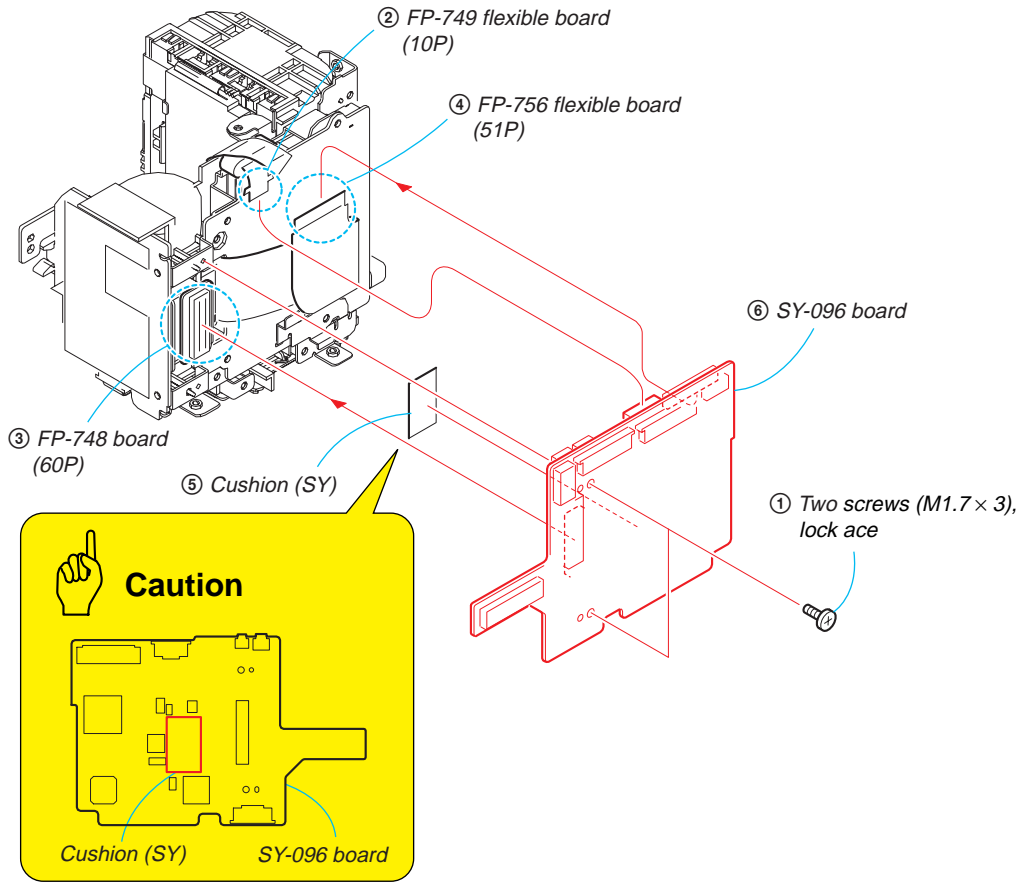


Caution

Note: When installing, be careful not to pinch the flexible board or harness during installation.



2-14. SY-096 BOARD

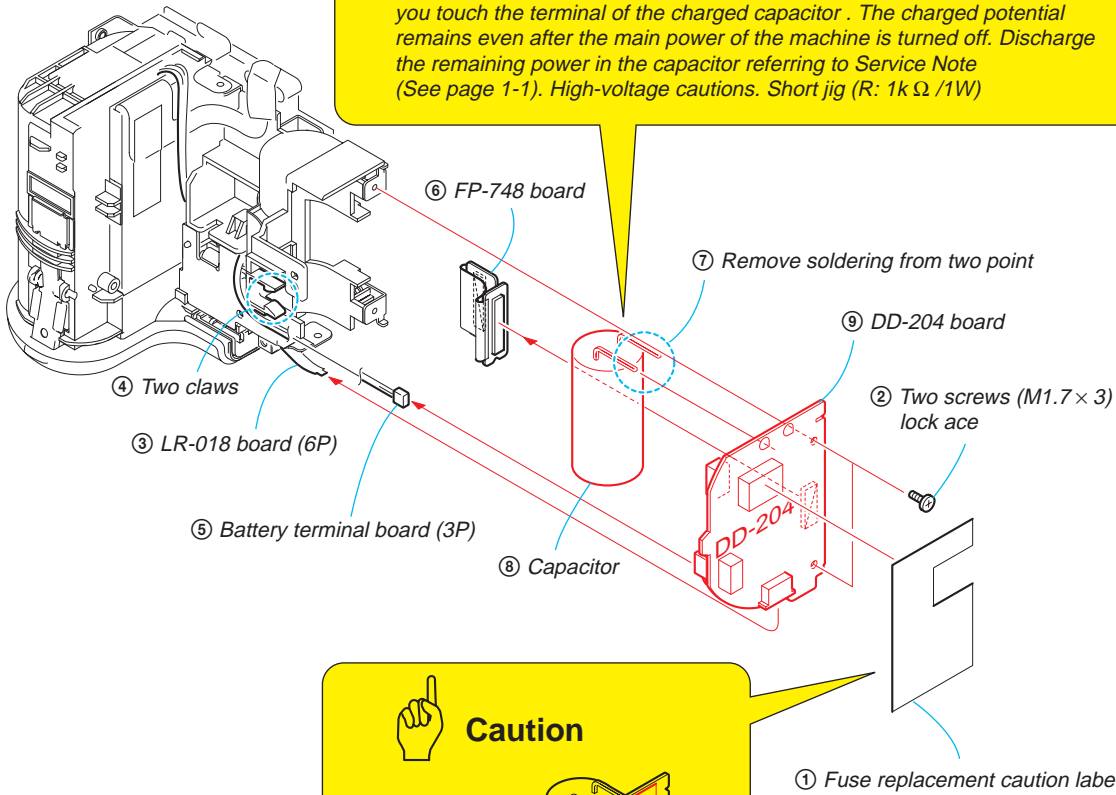


2-15.DD-204 BOARD



Caution

Note: The power supply capacitor of the flash unit is charged to the high tension voltage as high as 300 V at a maximum. You will get electrical shock when you touch the terminal of the charged capacitor. The charged potential remains even after the main power of the machine is turned off. Discharge the remaining power in the capacitor referring to Service Note (See page 1-1). High-voltage cautions. Short jig (R: 1k Ω /1W)



Caution

DD-204 board

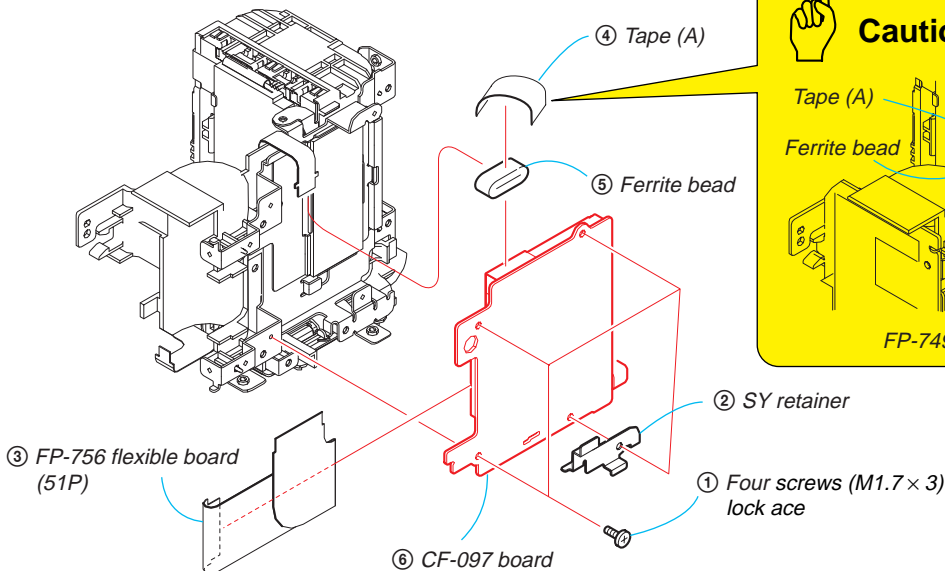
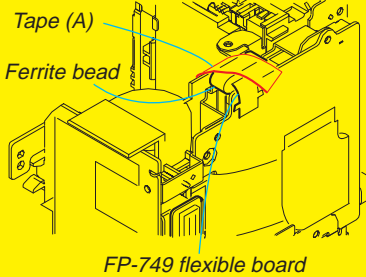
Fuse replacement caution label

① Fuse replacement caution label

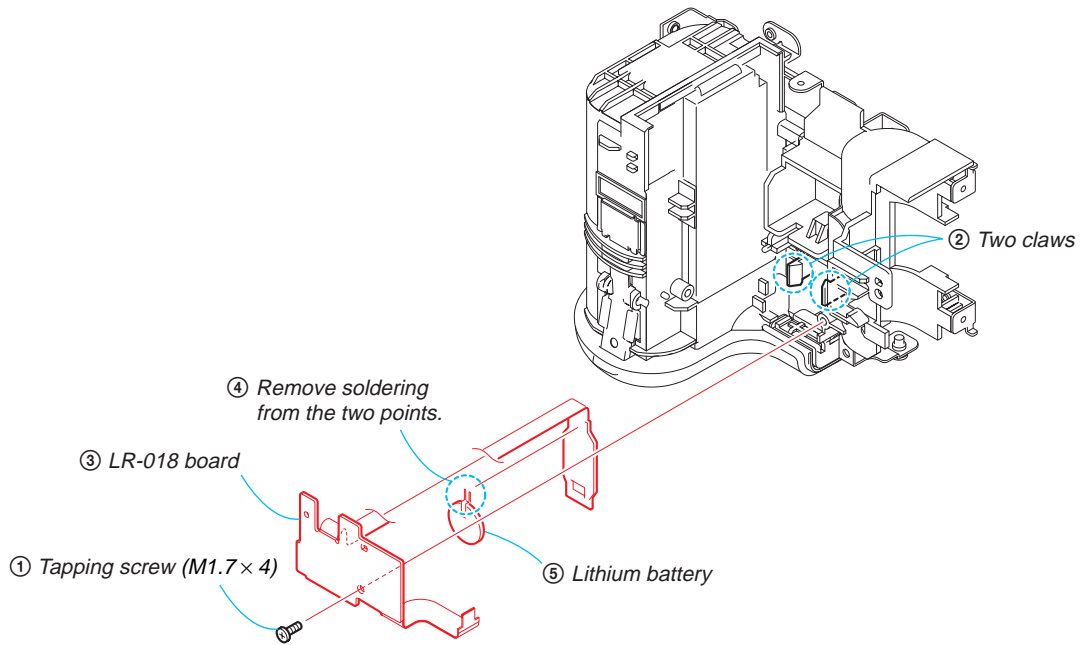
2-16.CF-097 BOARD



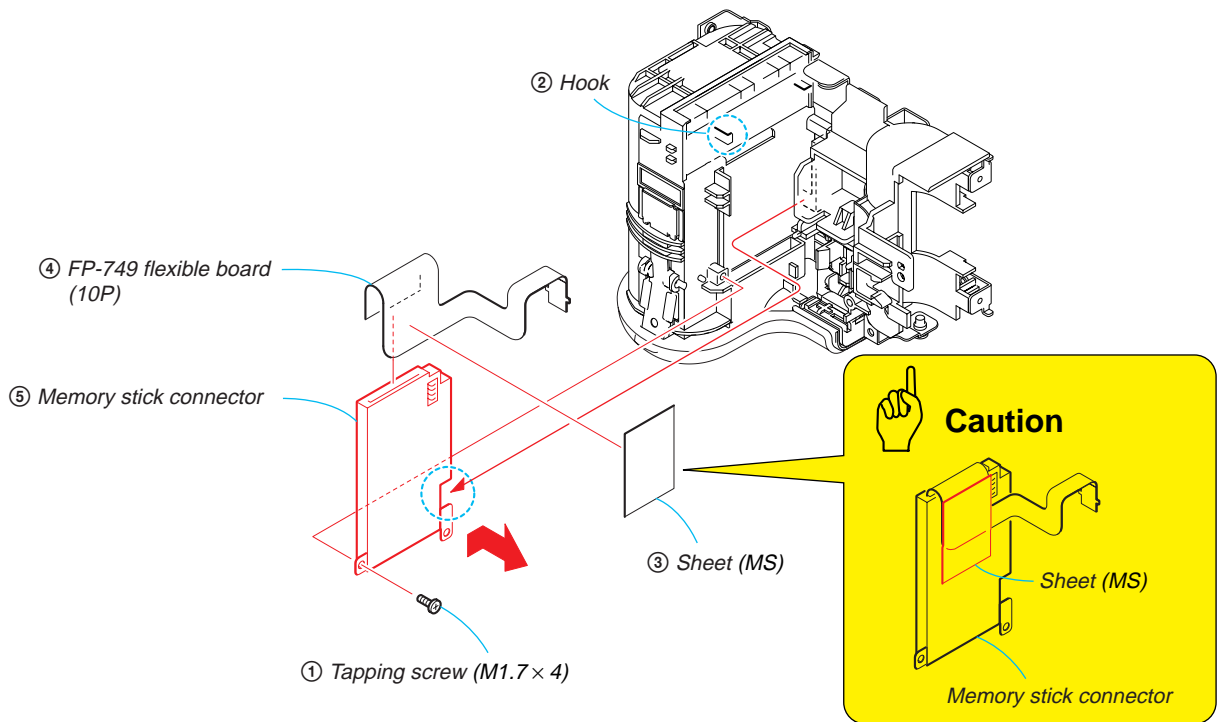
Caution



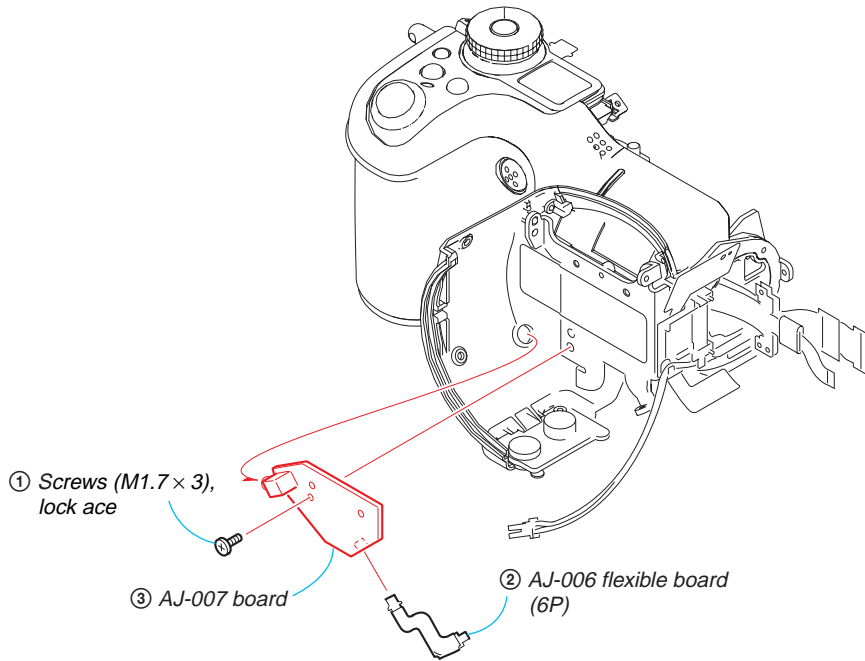
2-17.LR-018 BOARD, LITHIUM BATTERY



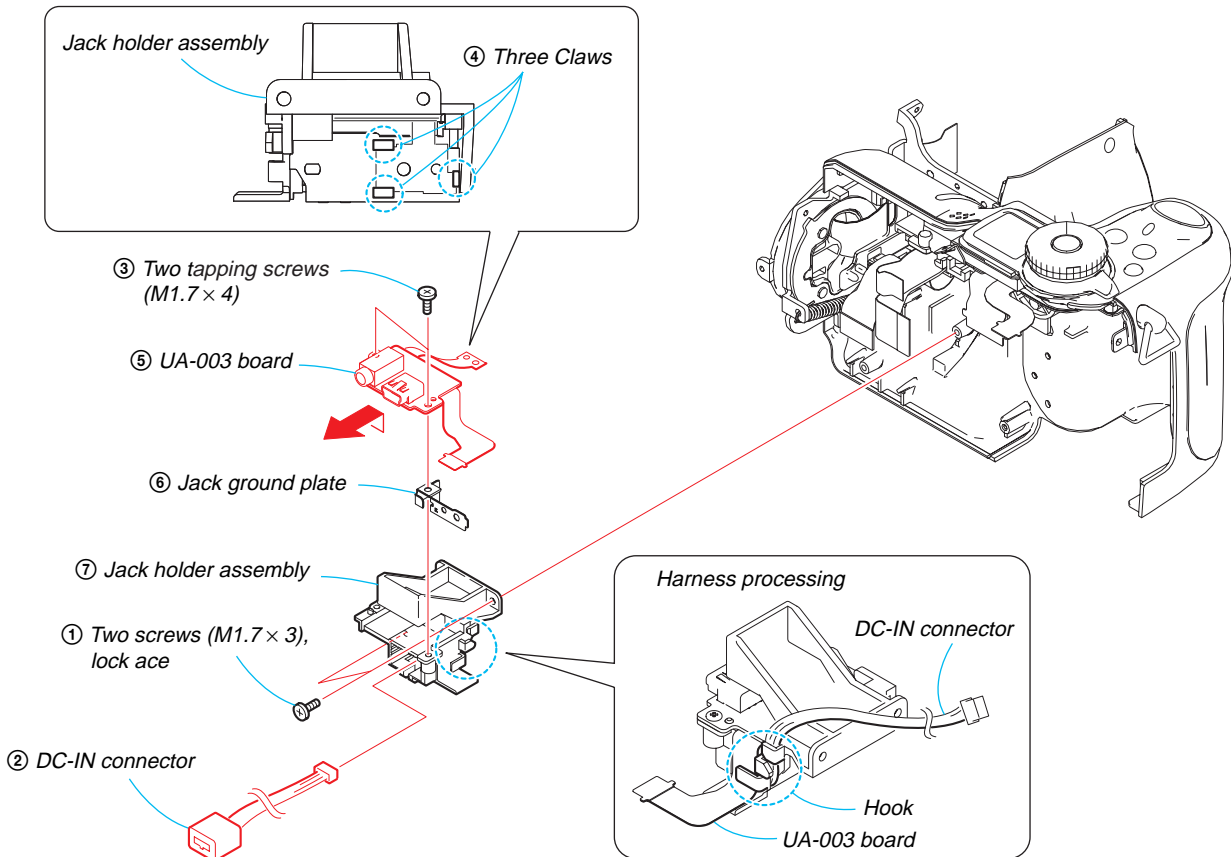
2-18.MEMORY STICK CONNECTOR



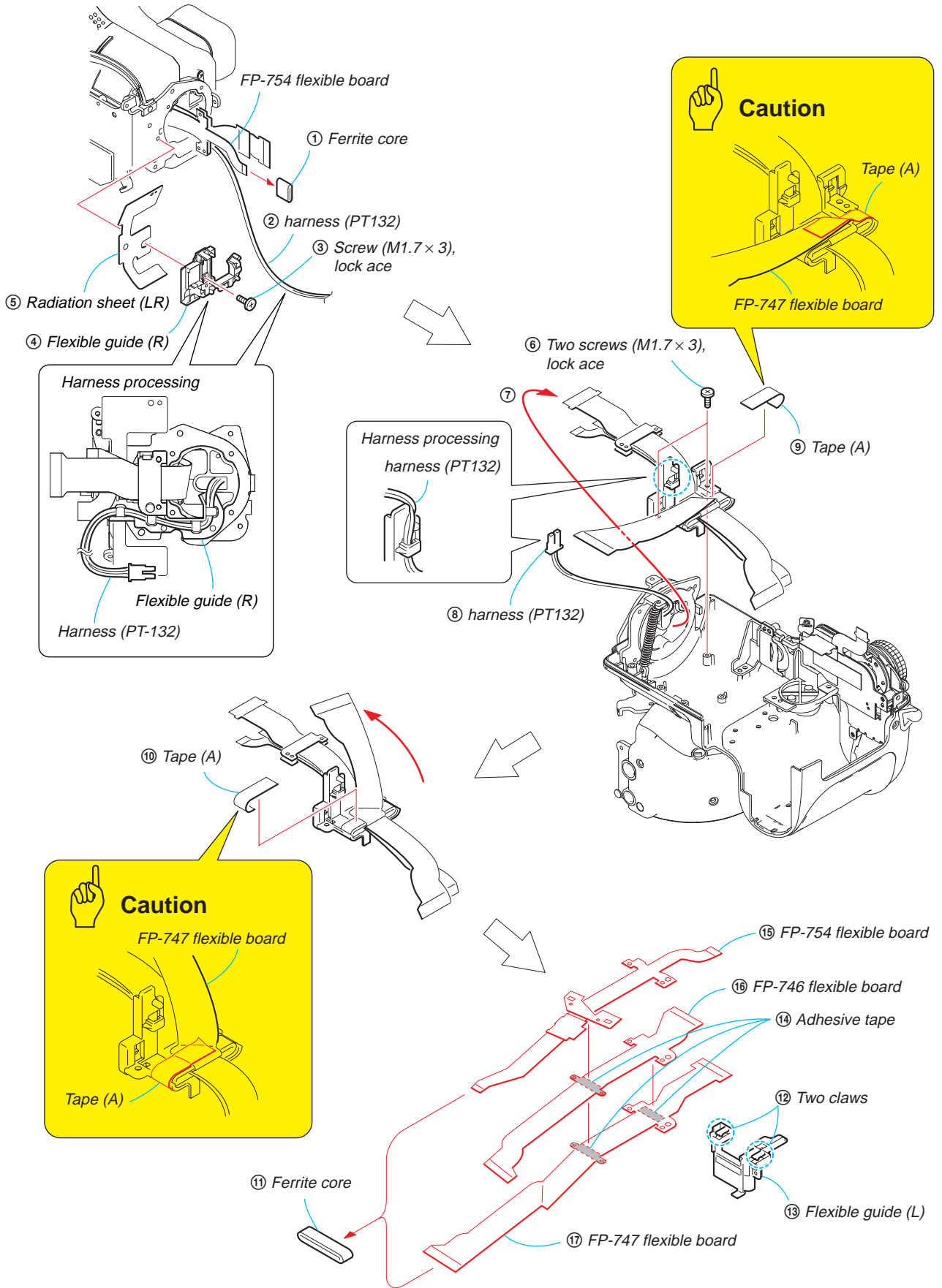
2-19. AJ-007 BOARD



2-20. DC-IN CONNECTOR, UA-003 BOARD

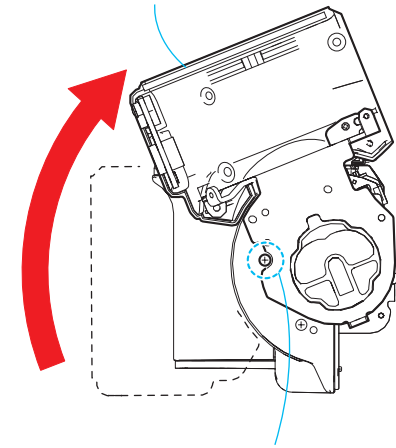


2-21.FP-747/746/754 FLEXIBLE BOARD



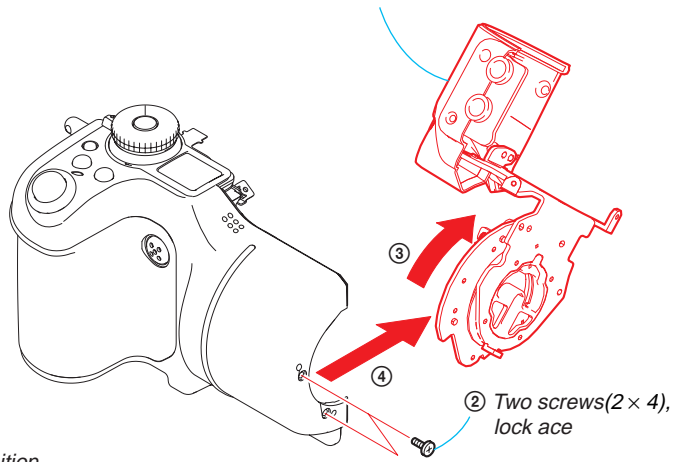
2-22.HINGE/CABINET (LL) ASSEMBLY

Hinge /Cabinet (LL) Assembly



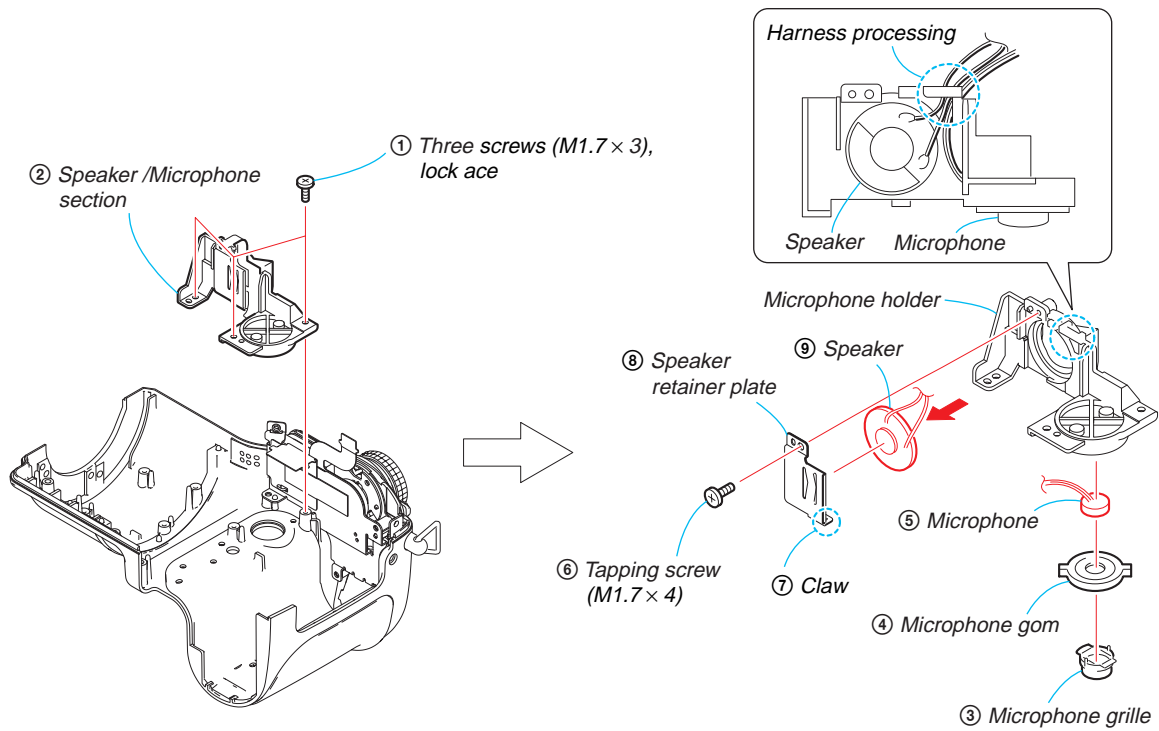
① Rotate the Hinge/Cabinet (LL) Assembly up to the position where screw becomes visible.

Remove it while rotating the Hinge/Cabinet (LL) Assembly.

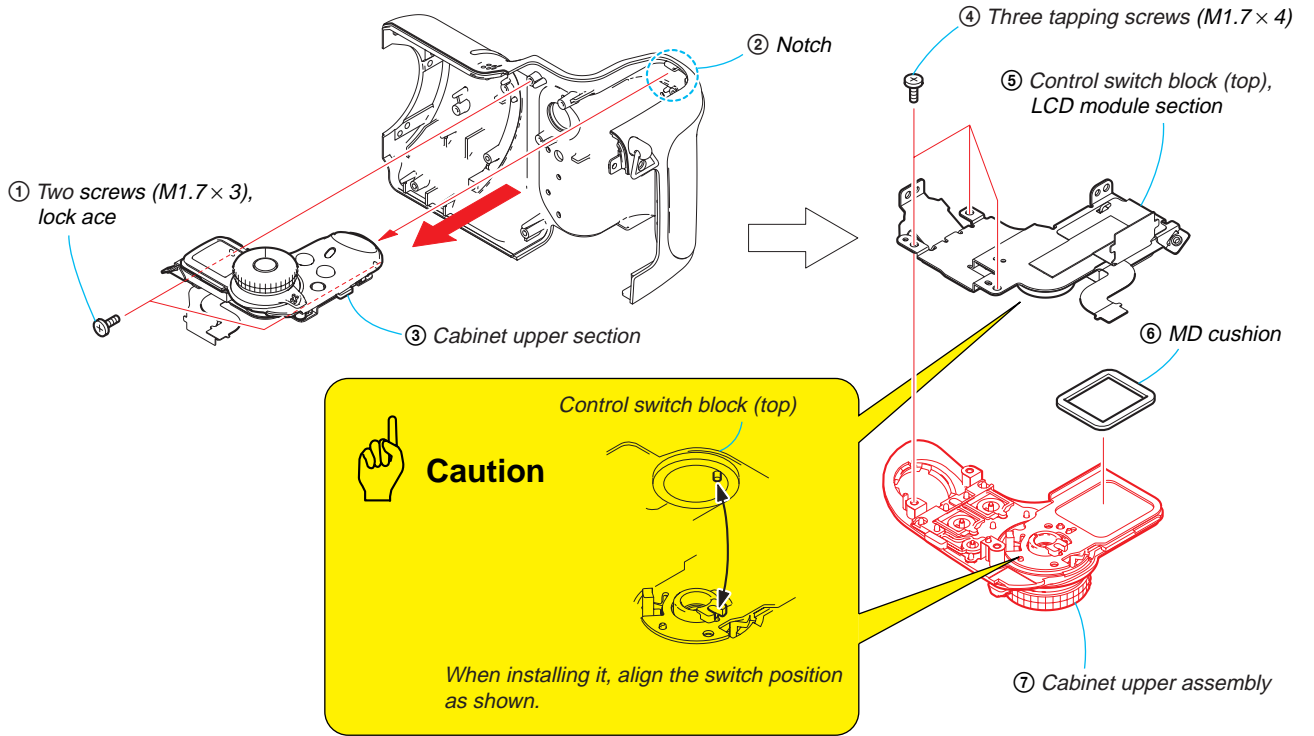


② Two screws (2 × 4), lock ace

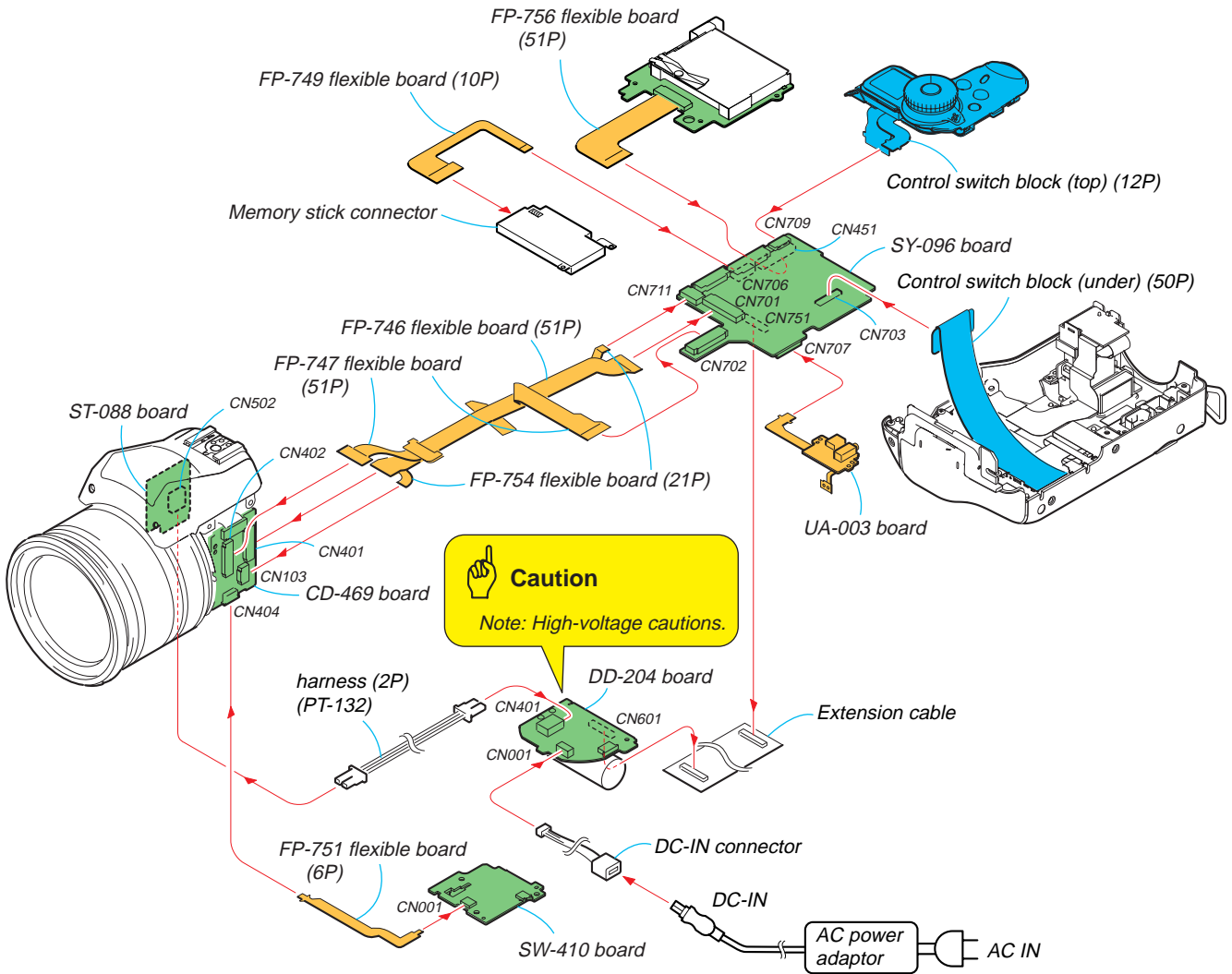
2-23.SPEAKER/MICROPHONE SECTION



2-24. CABINET UPPER ASSEMBLY



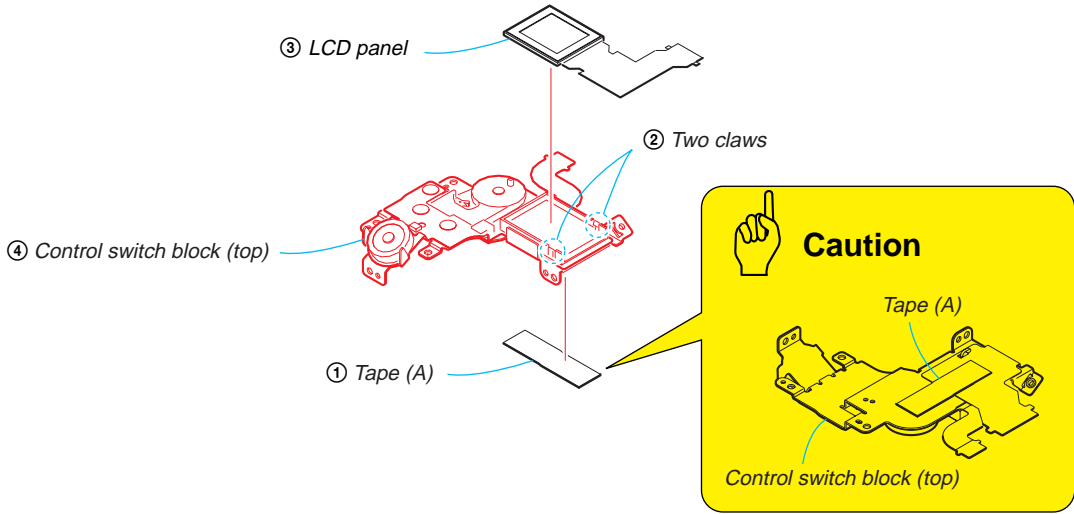
[SERVICE POSITION (SY-096 BOARD)]



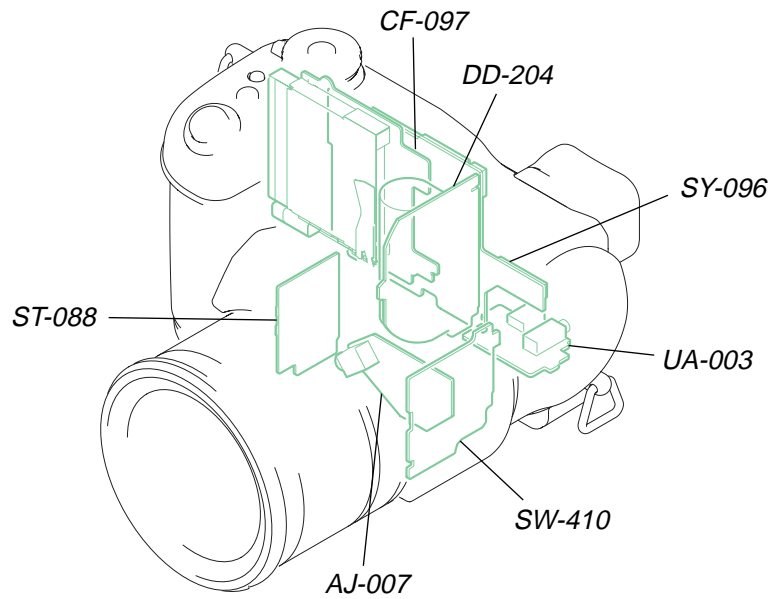
PROCEDURE OF REMOVING THE SY-096 BOARD (SERVICE POSITION)

- ① 2-1. CABINET (LR) ASSEMBLY, SW-410 BOARD (page 2-2)
- ② 2-2. STROBOSCOPE BLOCK ASSEMBLY (page 2-3)
- ③ 2-9. REAR CABINET BLOCK ASSEMBLY (page 2-8)
- ④ 2-13. BTH SECTION (page 2-10)
- ⑤ 2-14. SY-096 BOARD (page 2-11)
- ⑥ 2-15. DD-204 BOARD (page 2-12)
- ⑦ 2-16. CF-097 BOARD (page 2-12)
- ⑧ 2-18. MEMORY STICK CONNECTOR (page 2-13)
- ⑨ 2-20. DC-IN CONNECTOR,UA-003 BOARD (page 2-14)
- ⑩ 2-21. FP-747/746/754 FLEXIBLE BOARD (page 2-15)
- ⑪ 2-24. CABINET UPPER ASSEMBLY (page 2-17)

2-25.CONTROL SWITCH BLOCK (TOP)

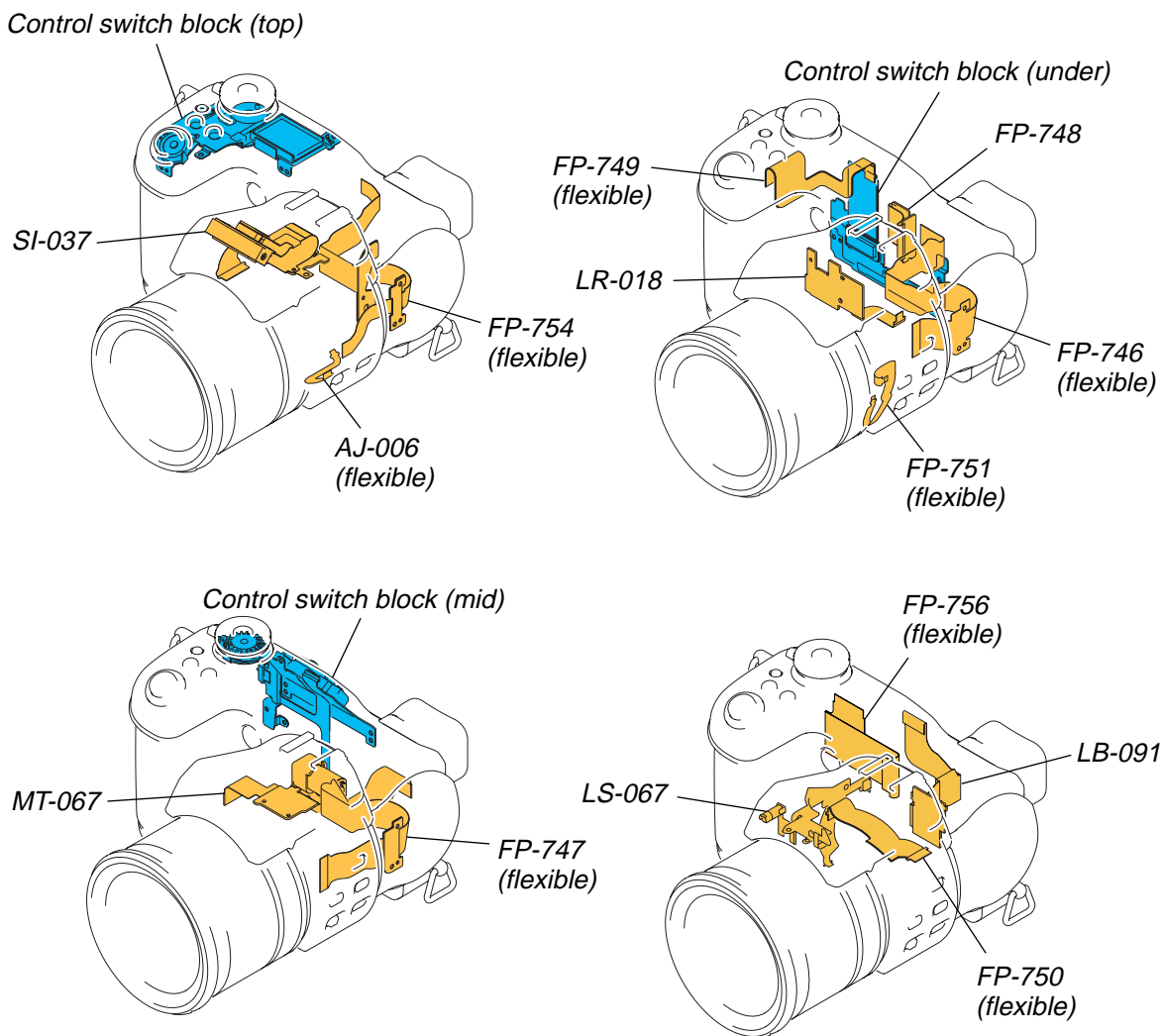


2-26. CIRCUIT BOARDS LOCATION



Board Name	Function
SY-096	CAMERA DSP, CAMERA SYSTEM CONTROL, CF DRIVE I/F, USB I/F, MODE CONTROL, AUDIO AMP, LCD DRIVER, EVF, LCD DRIVER, CONNECTOR, POWER SUPPLY
UA-003	AV, USB JACK
SW-410	FUNCTION KEY
AJ-007	JACK
ST-088	FLASH CONTROL
CF-097	CF CARD CONNECTOR
DD-204	DC/DC CONVERTER

2-27.CIRCUIT BOARDS AND FLEXIBLE BOARDS LOCATION

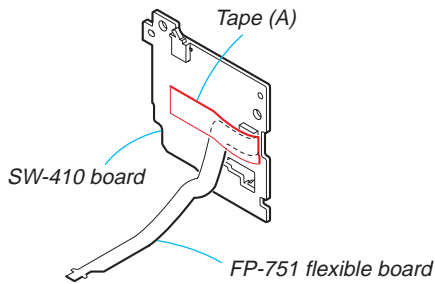


Board Name	Function
SI-037	FLASH, IR LED
MT-067	FLASH MOTOR
LS-067	AF LASER
LB-091	EVF, EVF BACK LIGHT
FP-748	CONNECTOR
LR-018	BATTERY, RESET SW

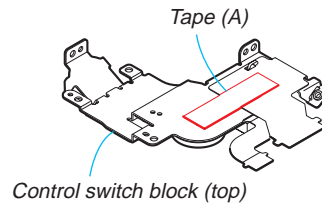
HELP

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

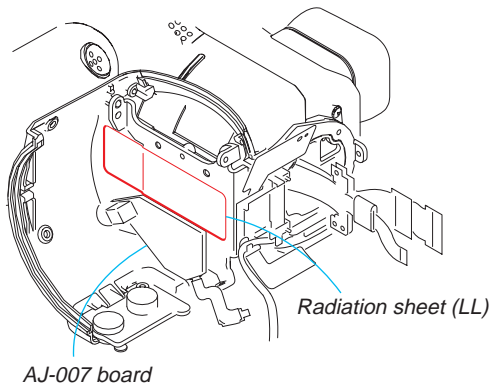
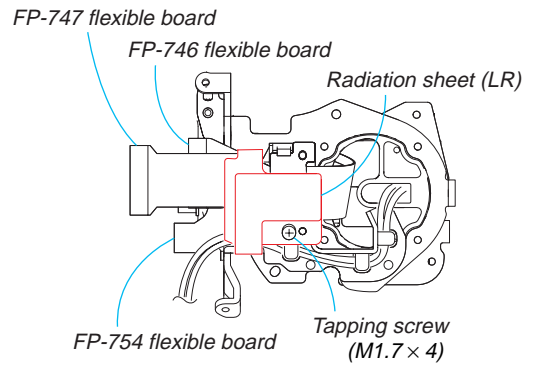
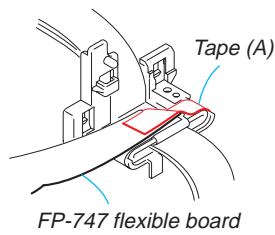
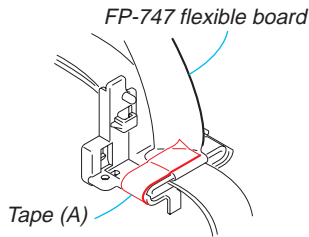
CABINET (LR) SECTION



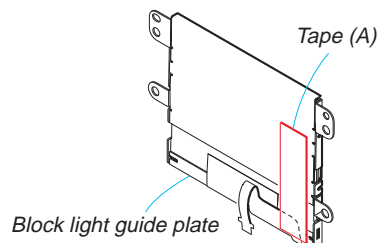
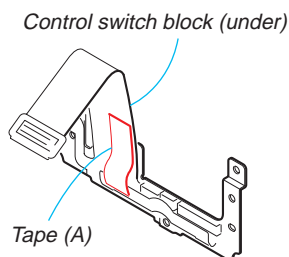
STROBOSCOPE SECTION



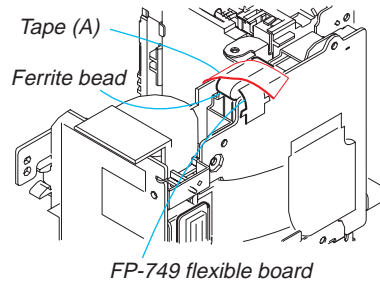
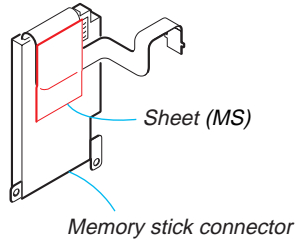
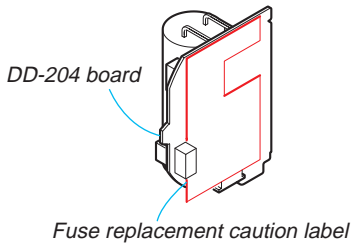
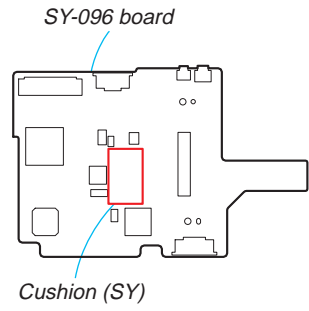
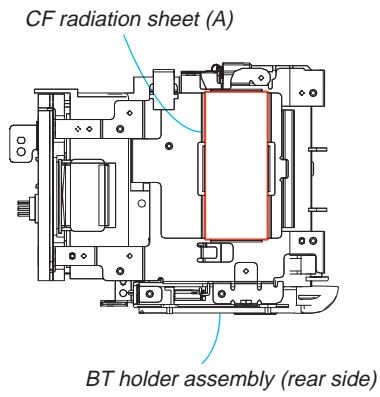
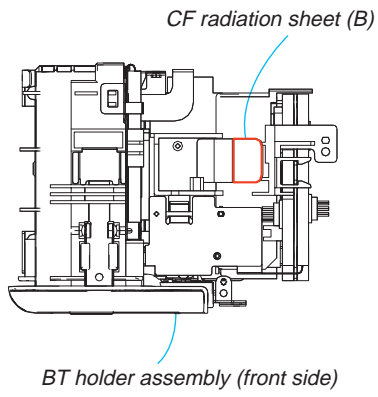
FRONT CABINET SECTION



REAR CABINET SECTION



BTH SECTION



3. BLOCK DIAGRAMS

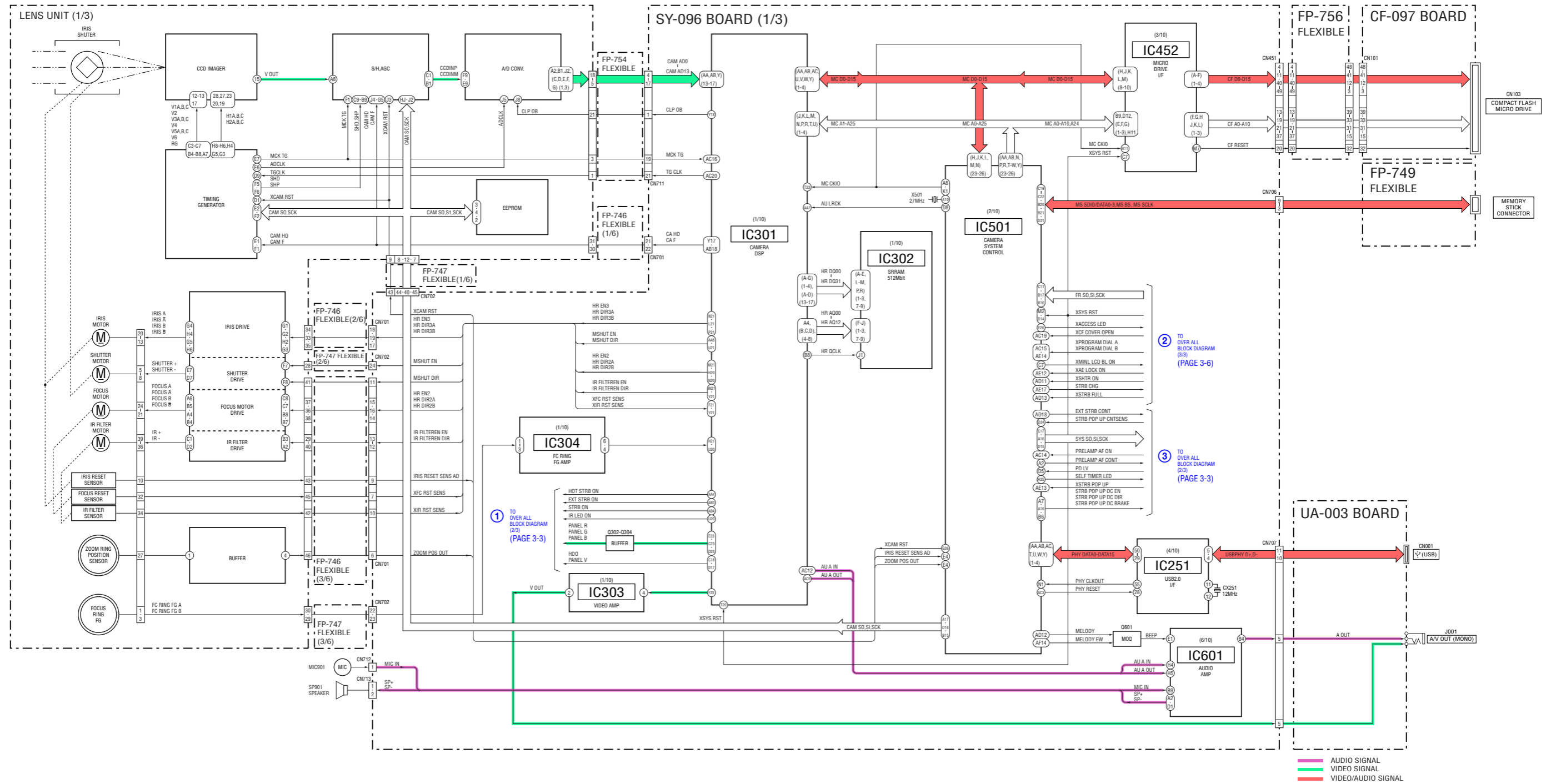
Link

• OVERALL BLOCK DIAGRAM (1/3)	• POWER BLOCK DIAGRAM (1/2)
• OVERALL BLOCK DIAGRAM (2/3)	• POWER BLOCK DIAGRAM (2/2)
• OVERALL BLOCK DIAGRAM (3/3)	

SECTION 3
BLOCK DIAGRAMS

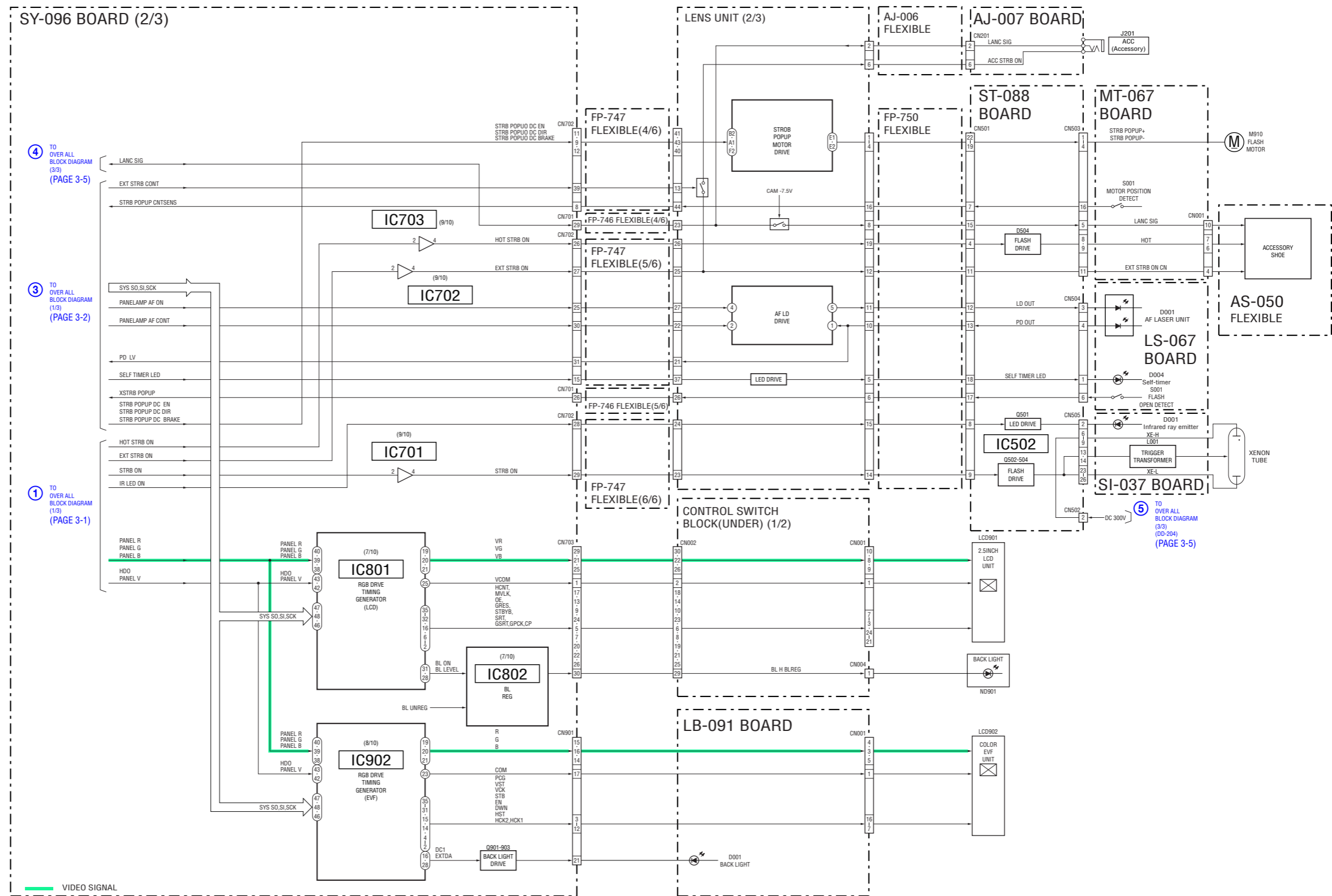
3. BLOCK DIAGRAMS

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



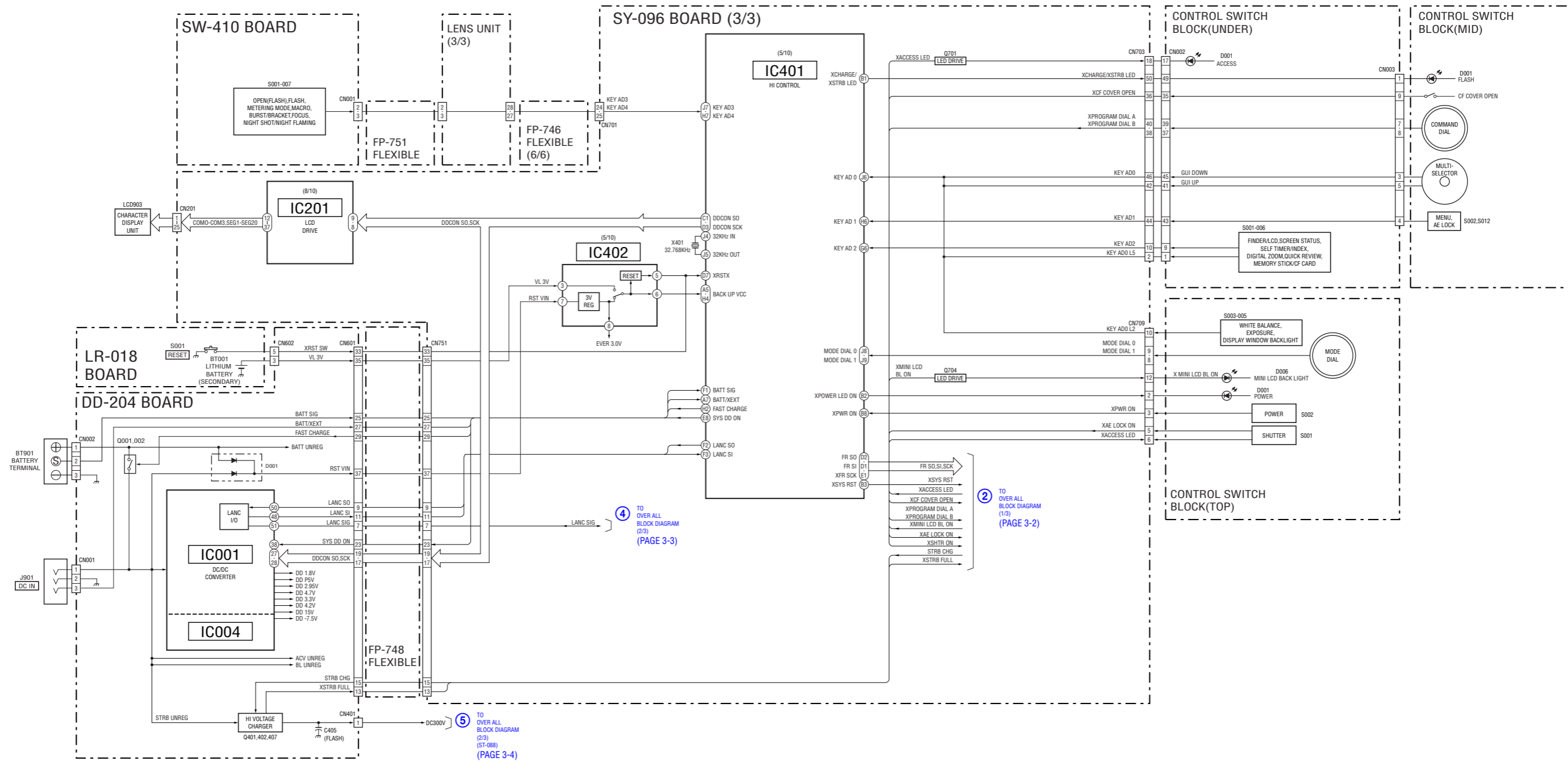
3. BLOCK DIAGRAMS

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



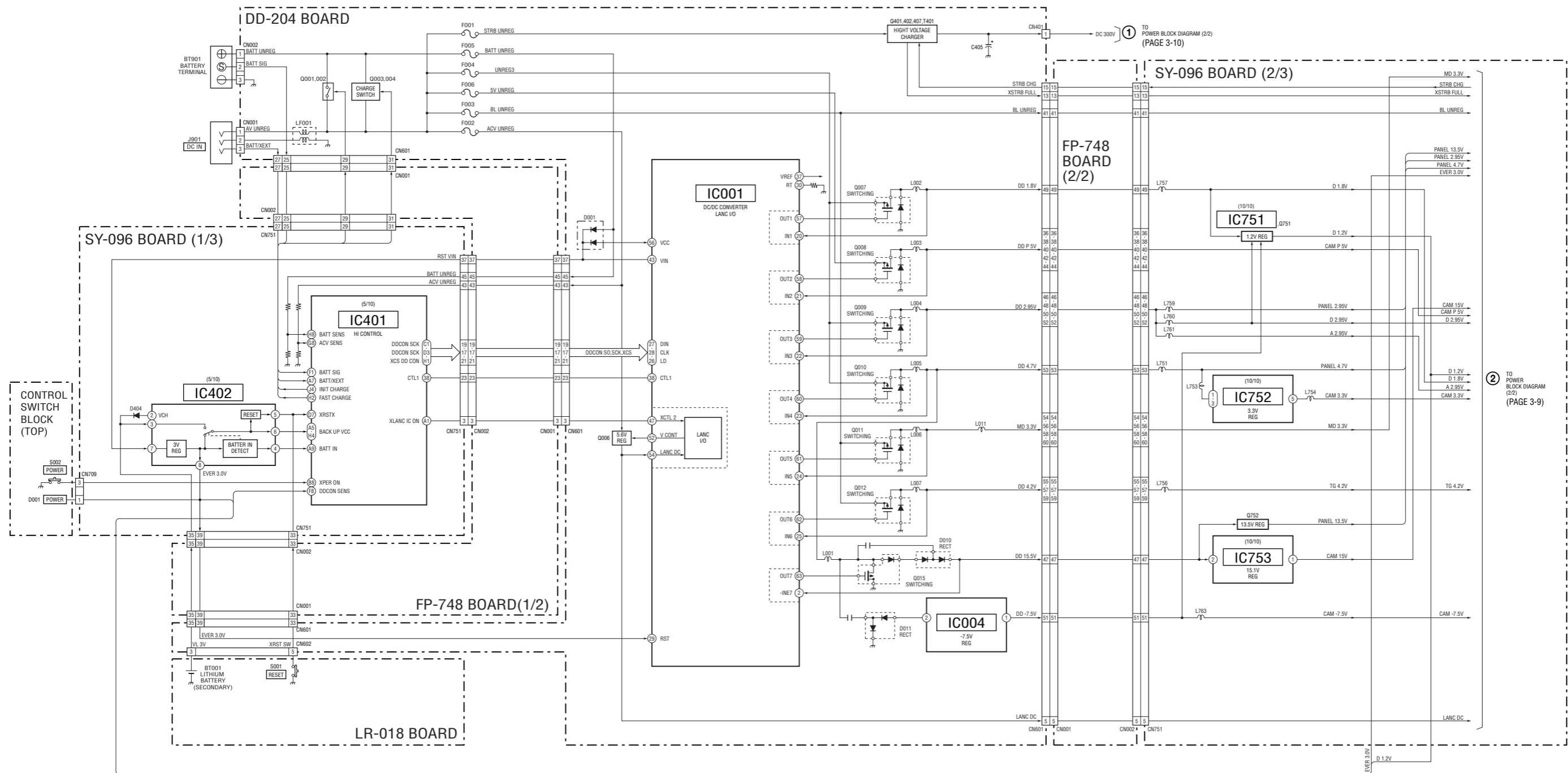
3. BLOCK DIAGRAMS

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



3. BLOCK DIAGRAMS

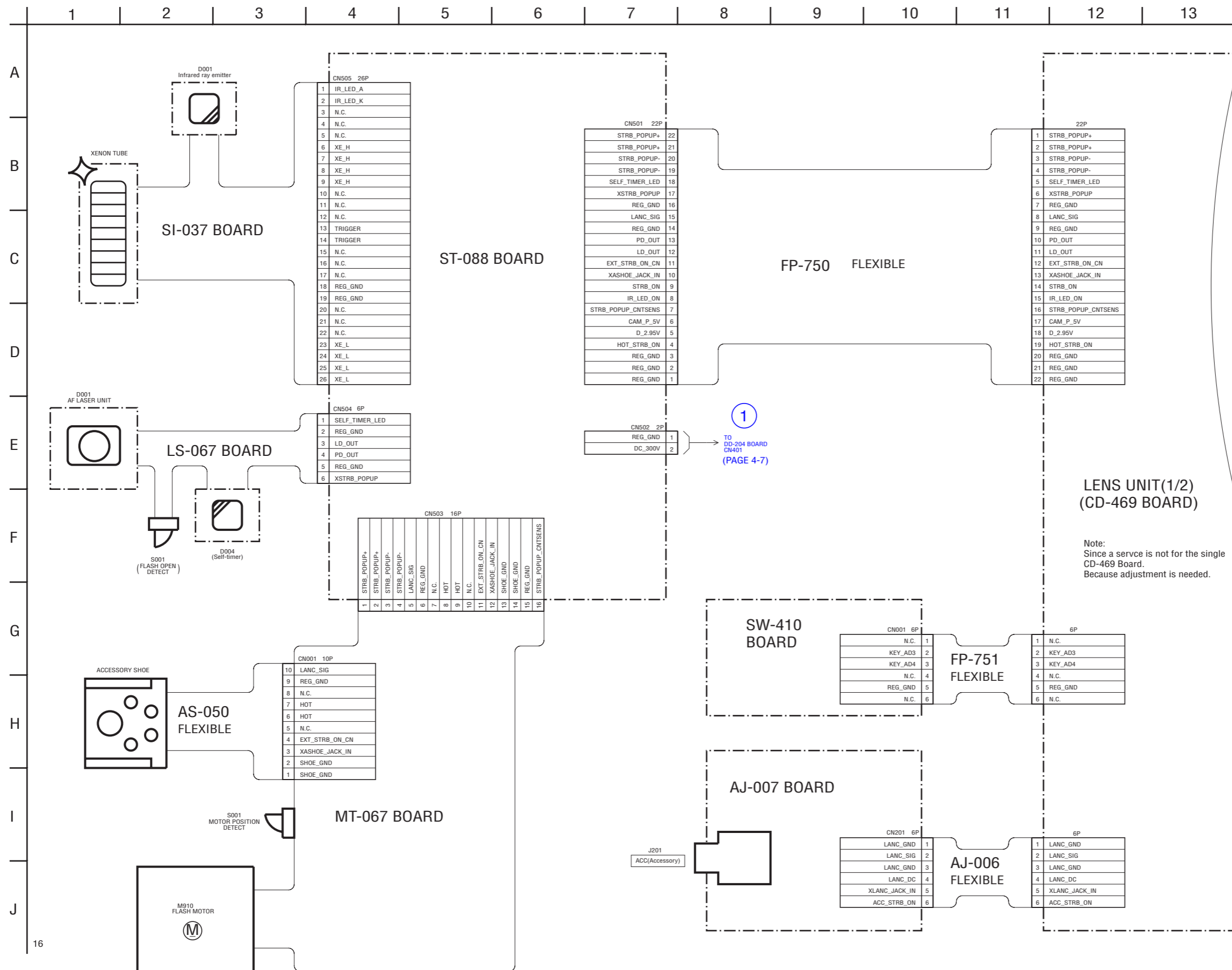
3-4. POWER BLOCK DIAGRAM (1/2) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.



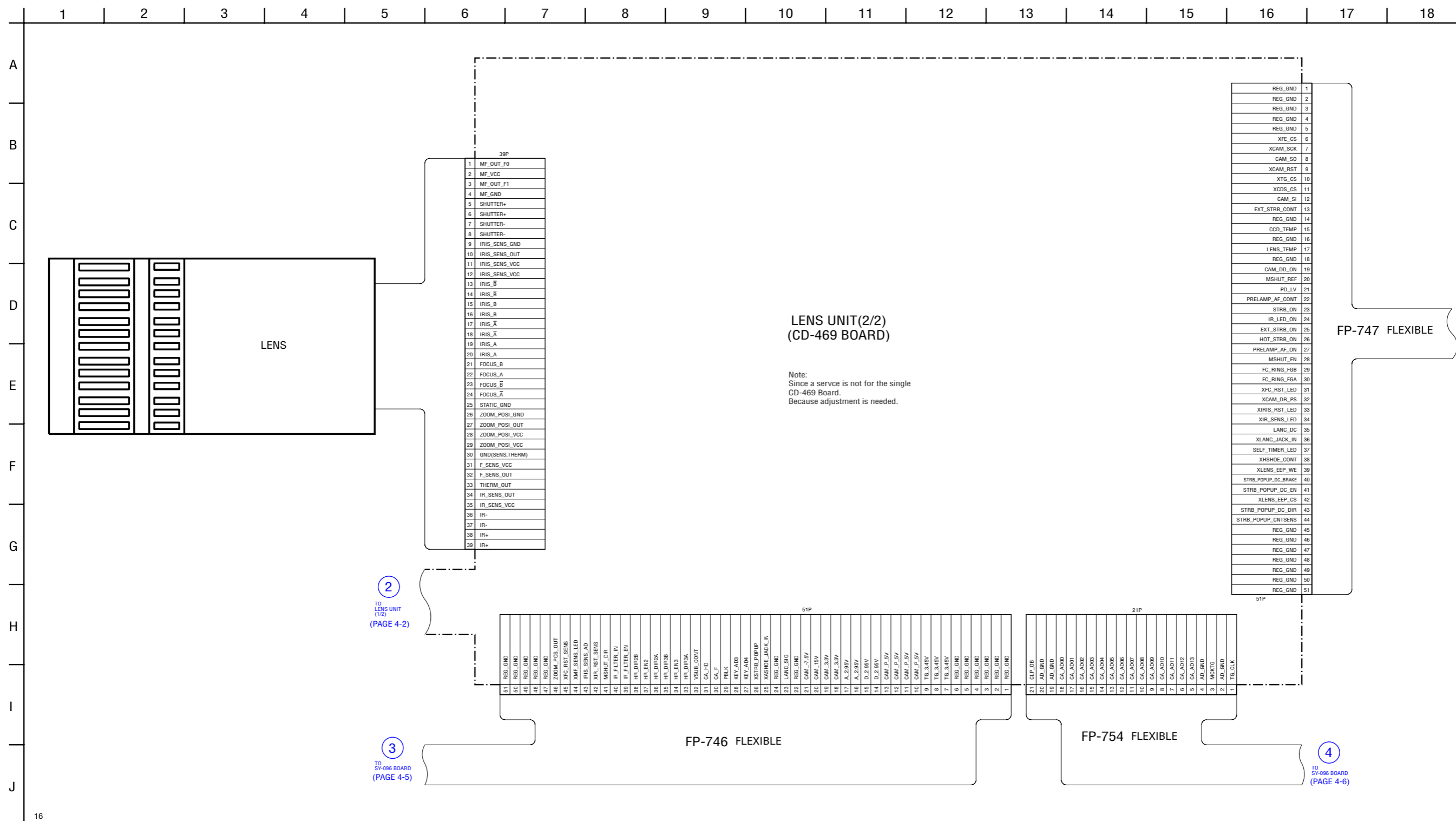
SECTION 4

PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

4-1. FRAME SCHEMATIC DIAGRAM (1/4)



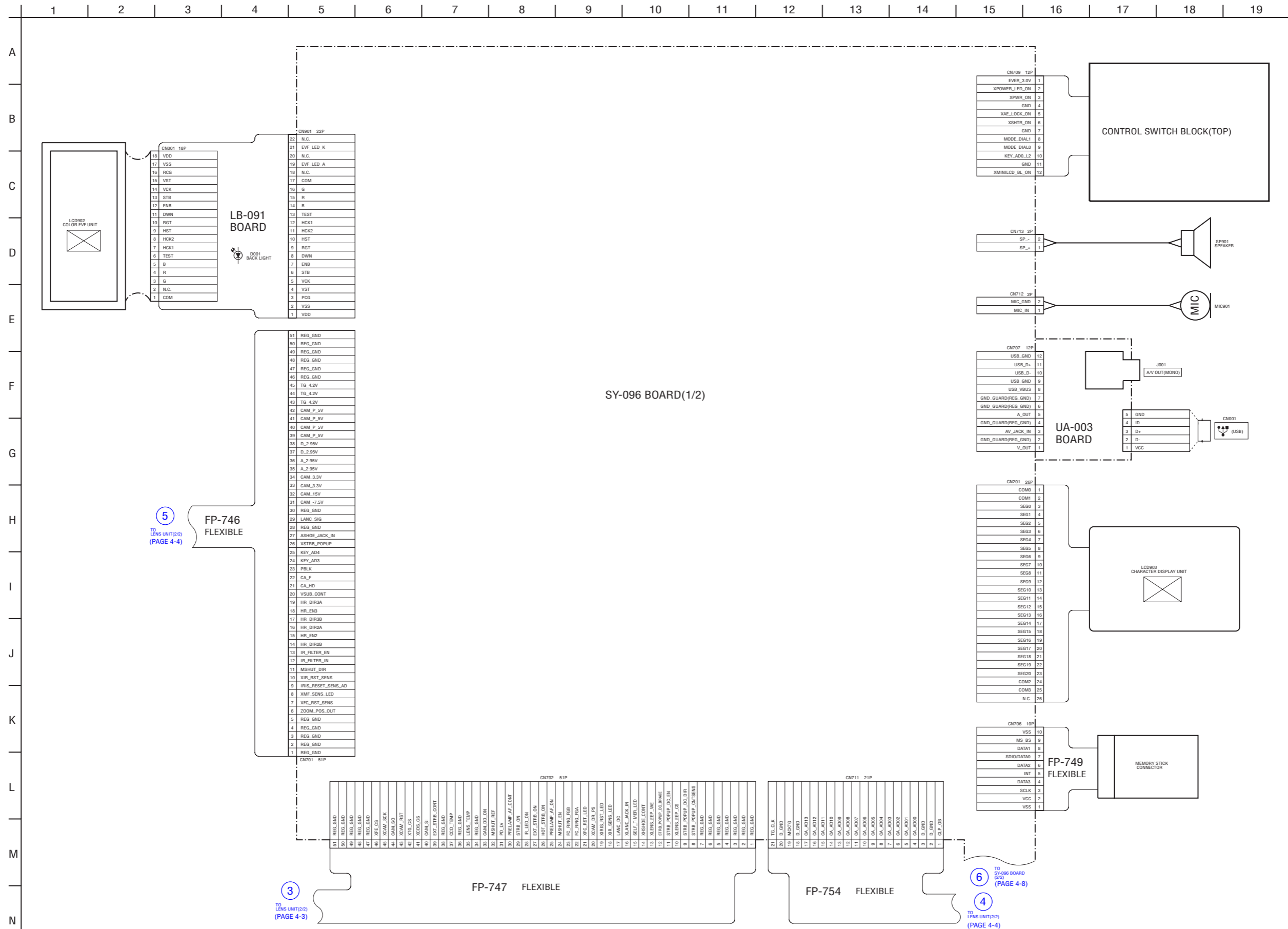
FRAME SCHEMATIC DIAGRAM (2/4)



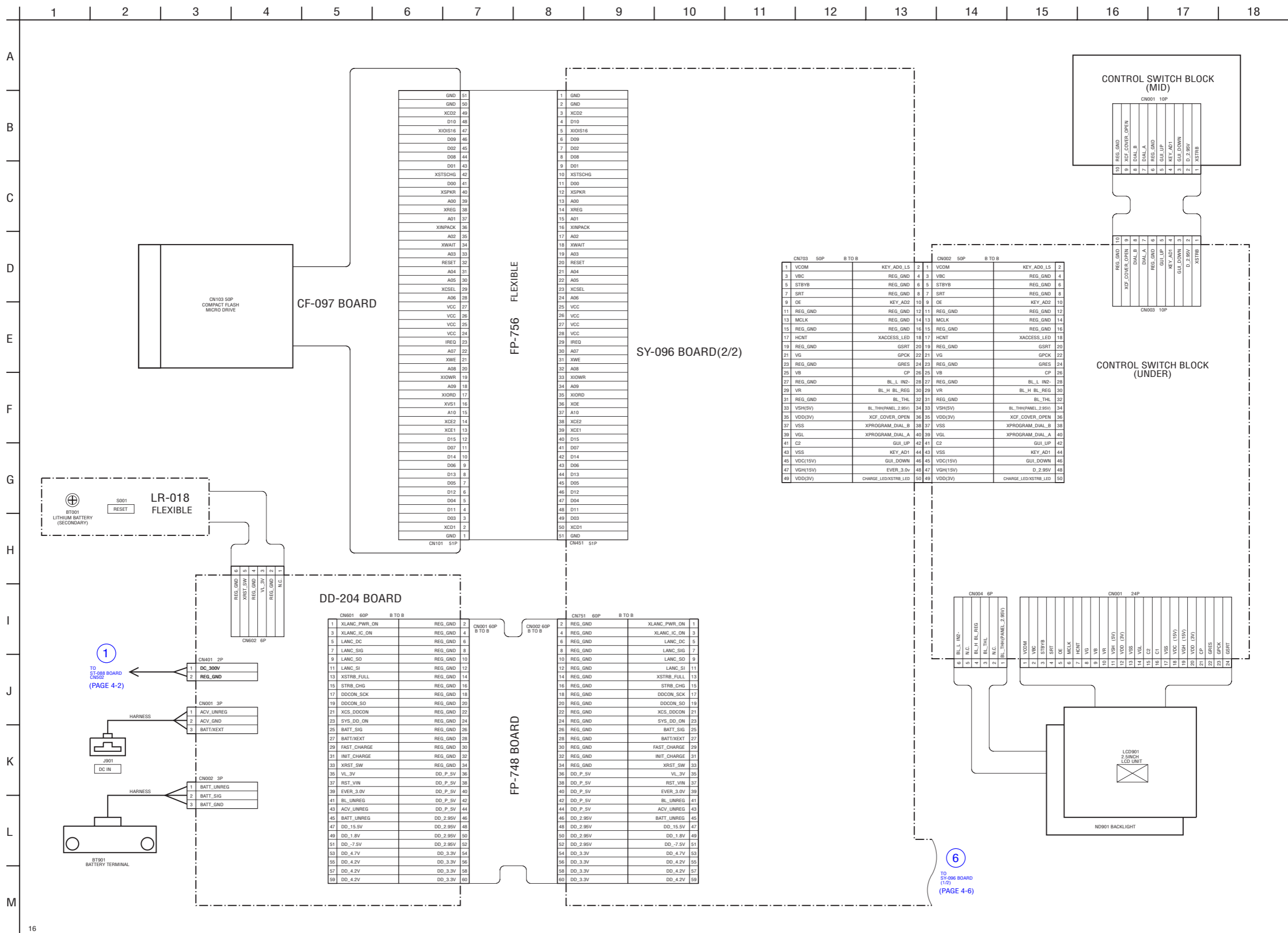
4-2. SCHEMATIC DIAGRAMS

4-3. PRINTED WIRING BOARDS

FRAME SCHEMATIC DIAGRAM (3/4)



FRAME SCHEMATIC DIAGRAM (4/4)



4-2. SCHEMATIC DIAGRAMS

Link

• DD-204 BOARD (DC/DC CONVERTER)	• LB-091 BOARD (EVF, EVF BACK LIGHT)
• LR-018 BOARD (BATTERY, RESET SW)	• CF-097 BOARD (CF CARD CONNECTOR)
• ST-088 BOARD (FLASH CONTROL)	• FP-756 FLEXIBLE BOARD
• LS-067 BOARD (AF LASER)	• SW-410 BOARD (FUNCTION KEY)
• MT-067 BOARD (FLASH MOTOR)	• AJ-007 BOARD (JACK)
• SI-037 BOARD (FLASH, IR LED)	• CONTROL SWITCH BLOCK (TOP)
• AS-050 FLEXIBLE BOARD	• CONTROL SWITCH BLOCK (MID)
• UA-003 BOARD (AV, USB JACK)	• CONTROL SWITCH BLOCK (UNDER)

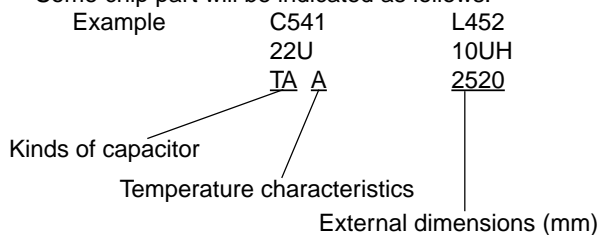
[• COMMON NOTE FOR SCHEMATIC DIAGRAMS](#)

4-2. SCHEMATIC DIAGRAMS

THIS NOTE IS COMMON FOR SCHEMATIC DIAGRAMS
 (In addition to this, the necessary note is printed in each block)

(For schematic diagrams)

- All capacitors are in μF unless otherwise noted. $\text{pF} : \mu\text{F} : 50\text{V}$ 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.

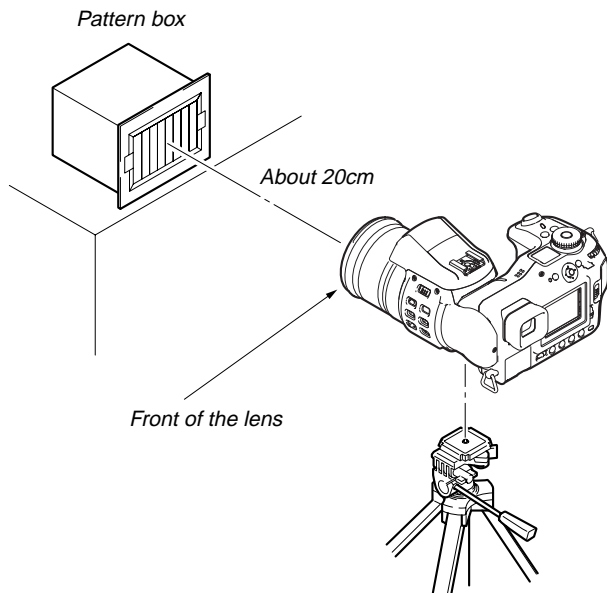


- Constants of resistors, capacitors, ICs and etc with XX indicate that they are not used. In such cases, the unused circuits may be indicated.
- Parts with * differ according to the model/destination. Refer to the mount table for each function.
- All variable and adjustable resistors have characteristic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

(Measuring conditions voltage and waveform)

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

1. Connection



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

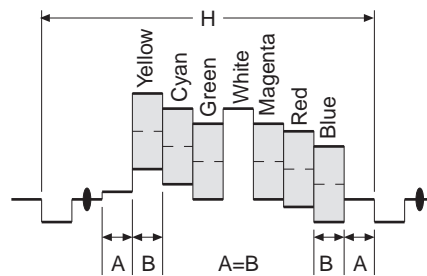


Fig. a (Video output terminal output waveform)

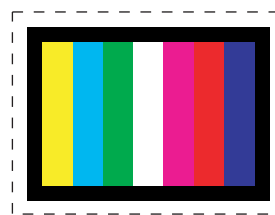


Fig.b (Picture on monitor TV)

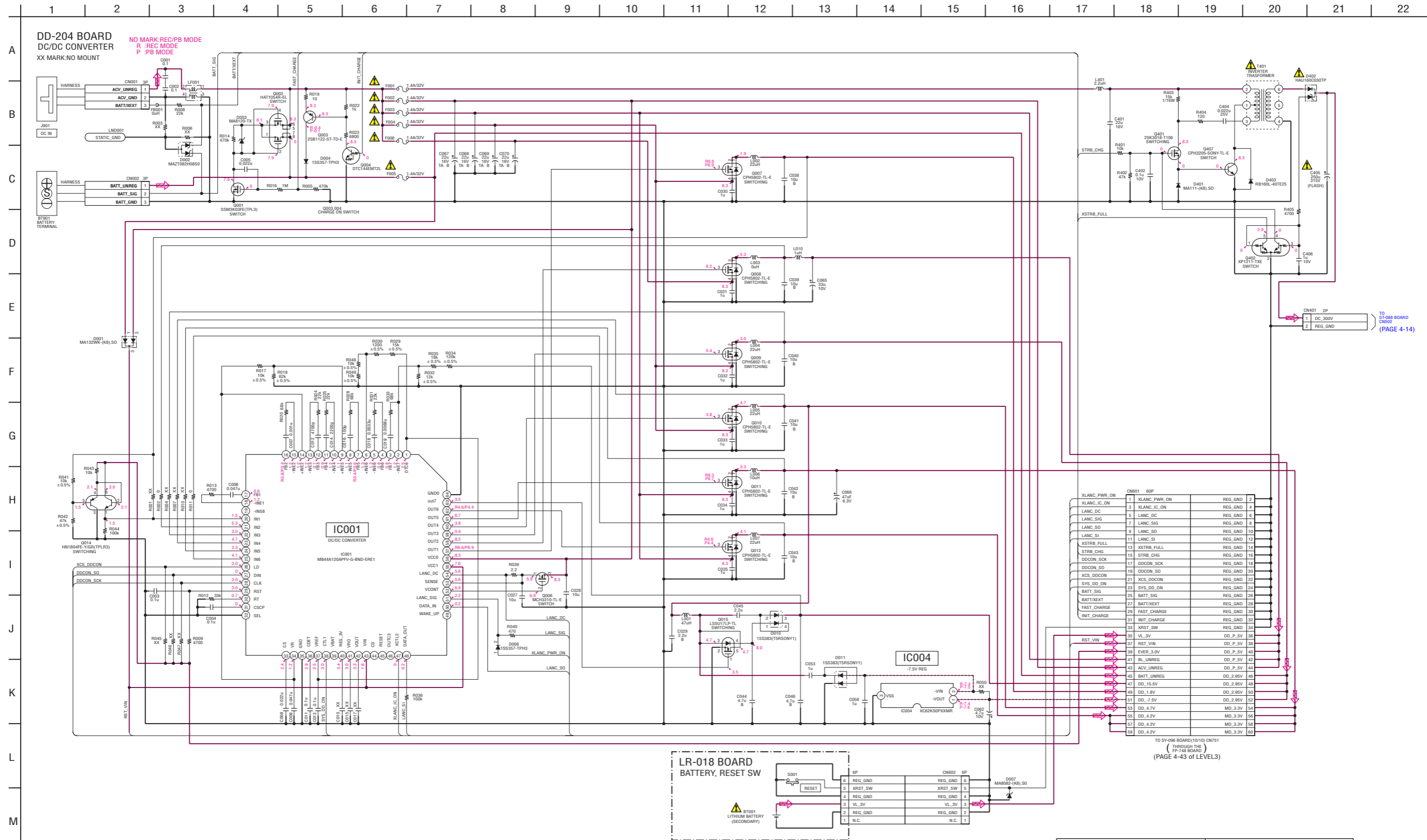
When indicating parts by reference number, please include the board name.

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

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

4-2. SCHEMATIC DIAGRAMS

For Schematic Diagram
 • Refer to page 4-49 for printed wiring board.

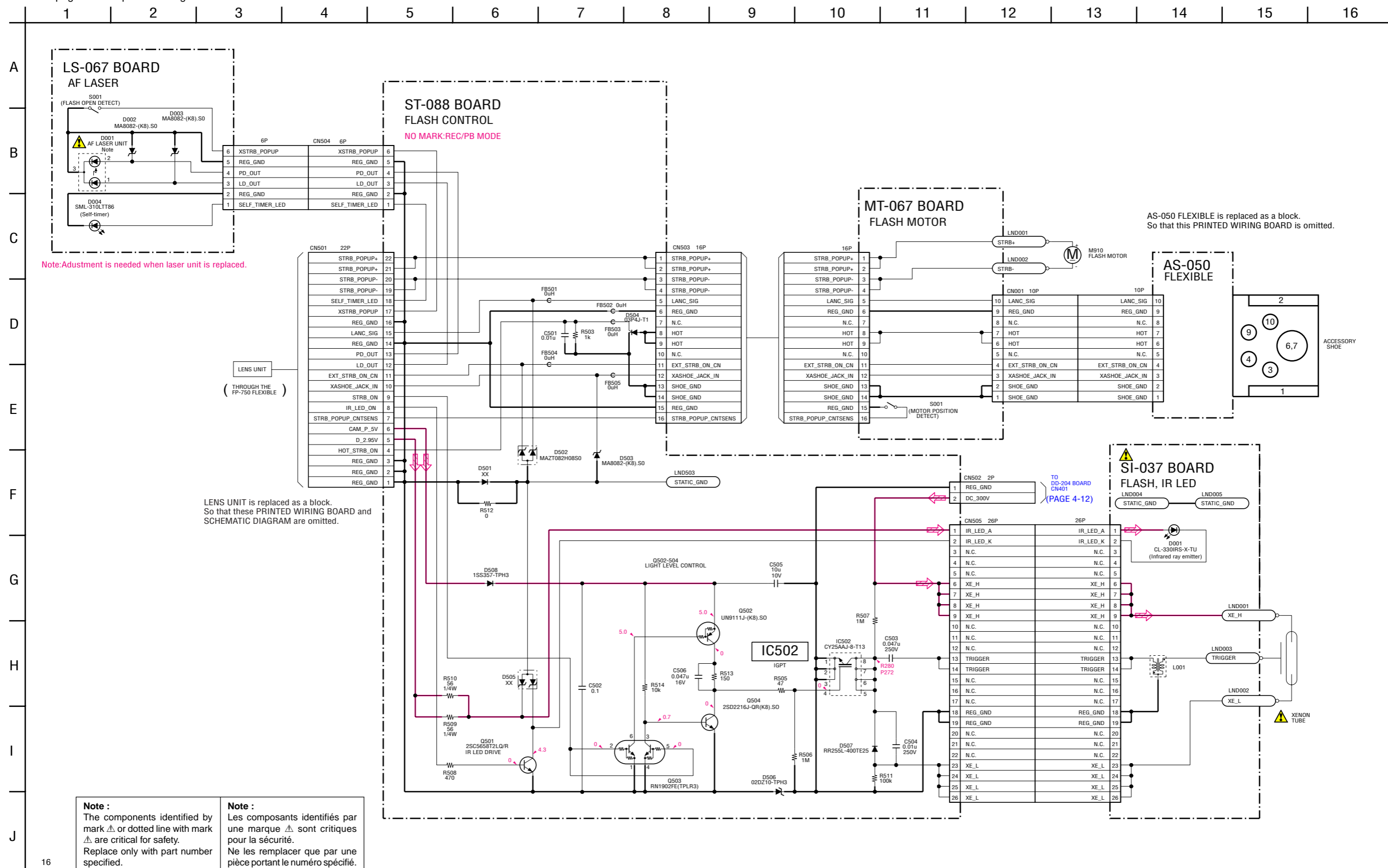


Note :
 The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

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

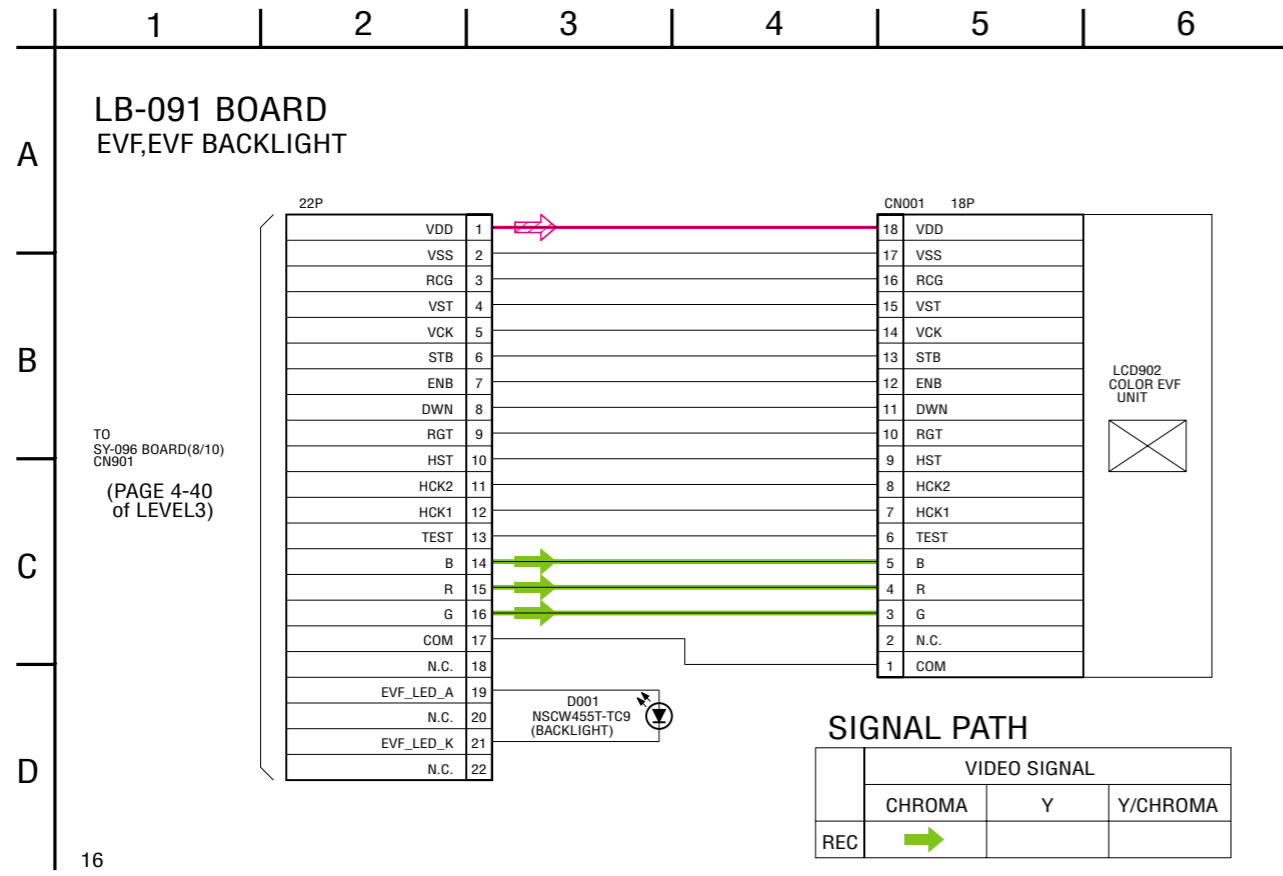
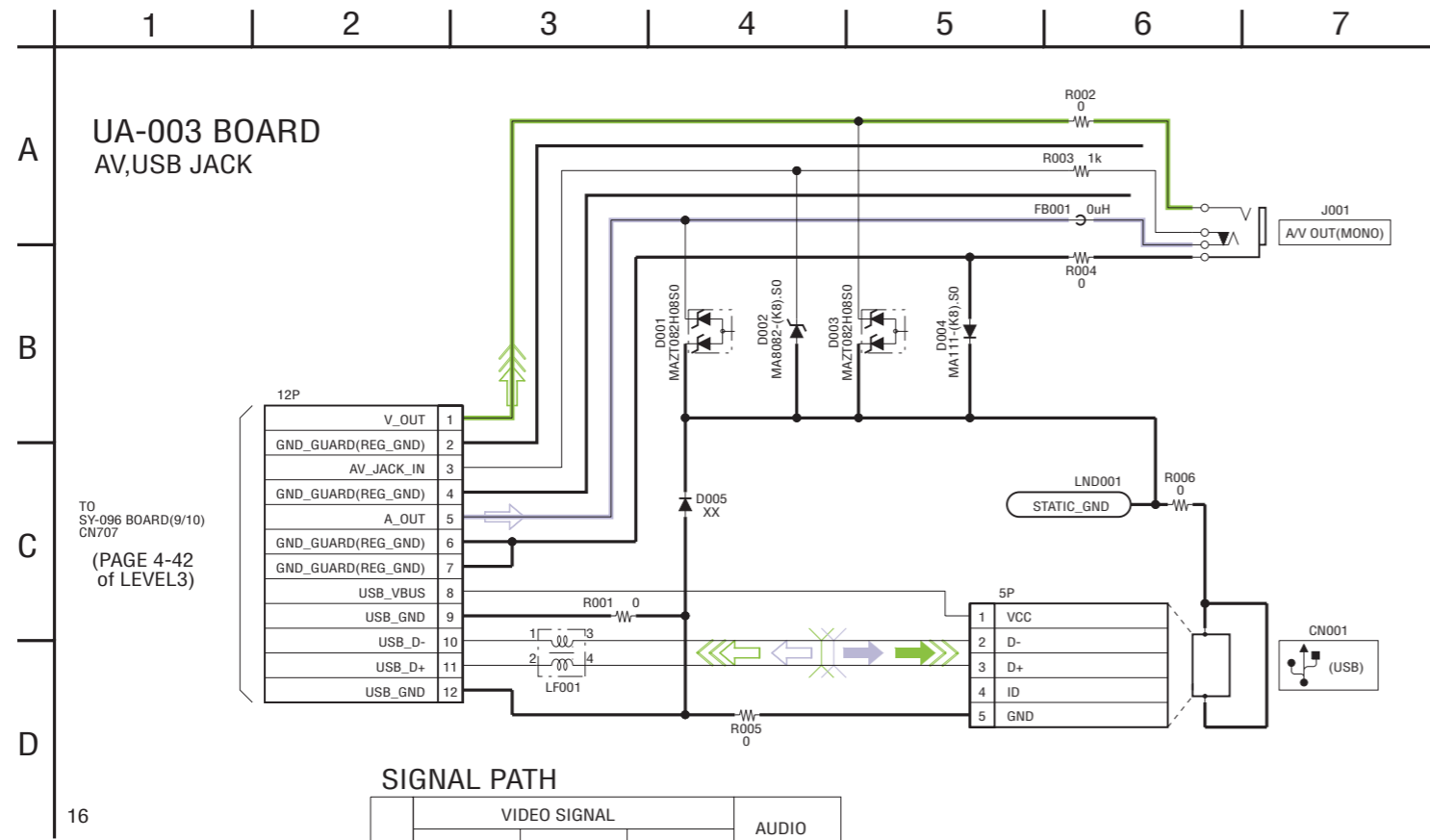
4-2. SCHEMATIC DIAGRAMS ST-088 BOARD LS-067 BOARD MT-067 BOARD SI-037 BOARD

For Schematic Diagram
 • Refer to page 4-51 for printed wiring board of ST-088 and MT-067.
 • Refer to page 4-52 for printed wiring board of LS-067.
 • Refer to page 4-53 for printed wiring board of SI-037.



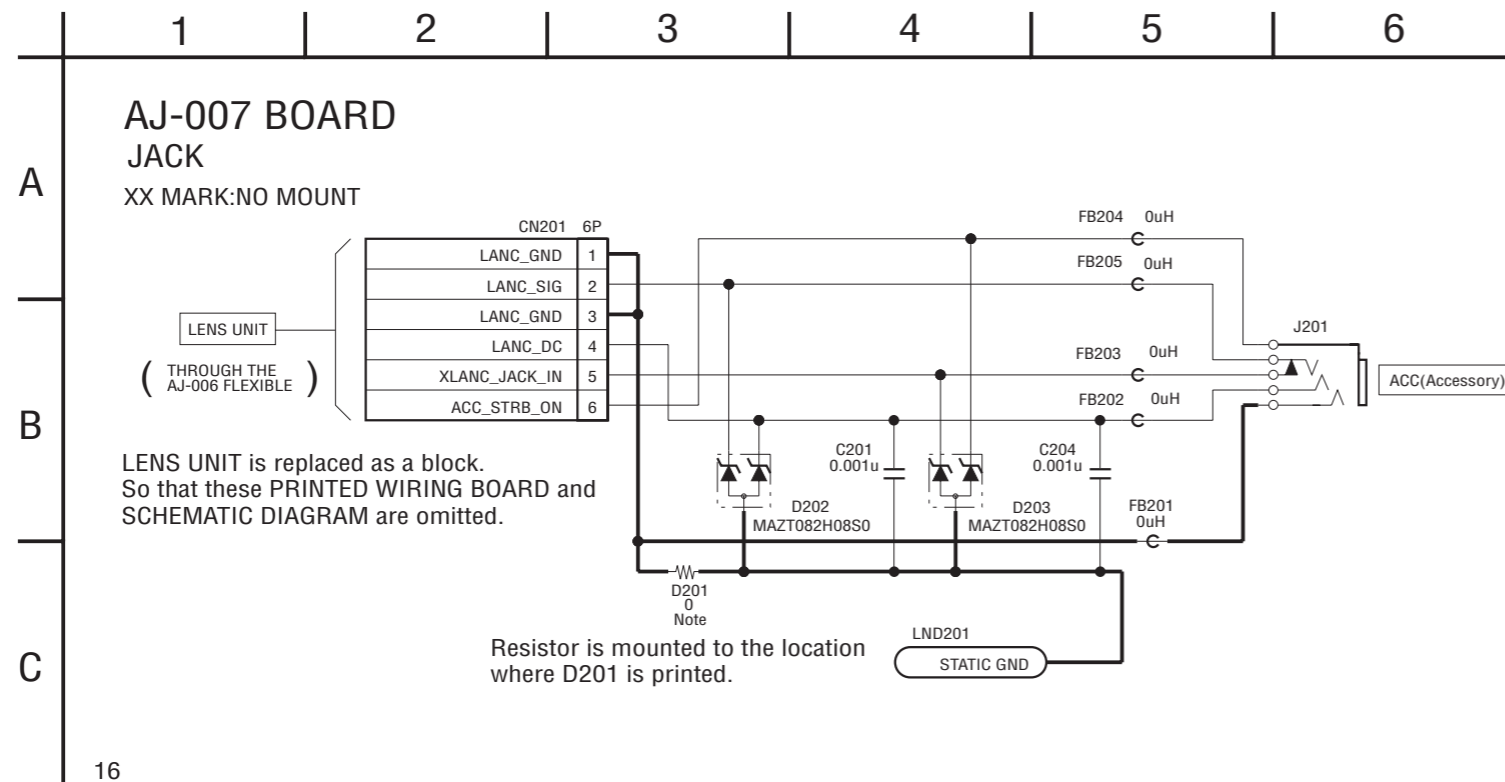
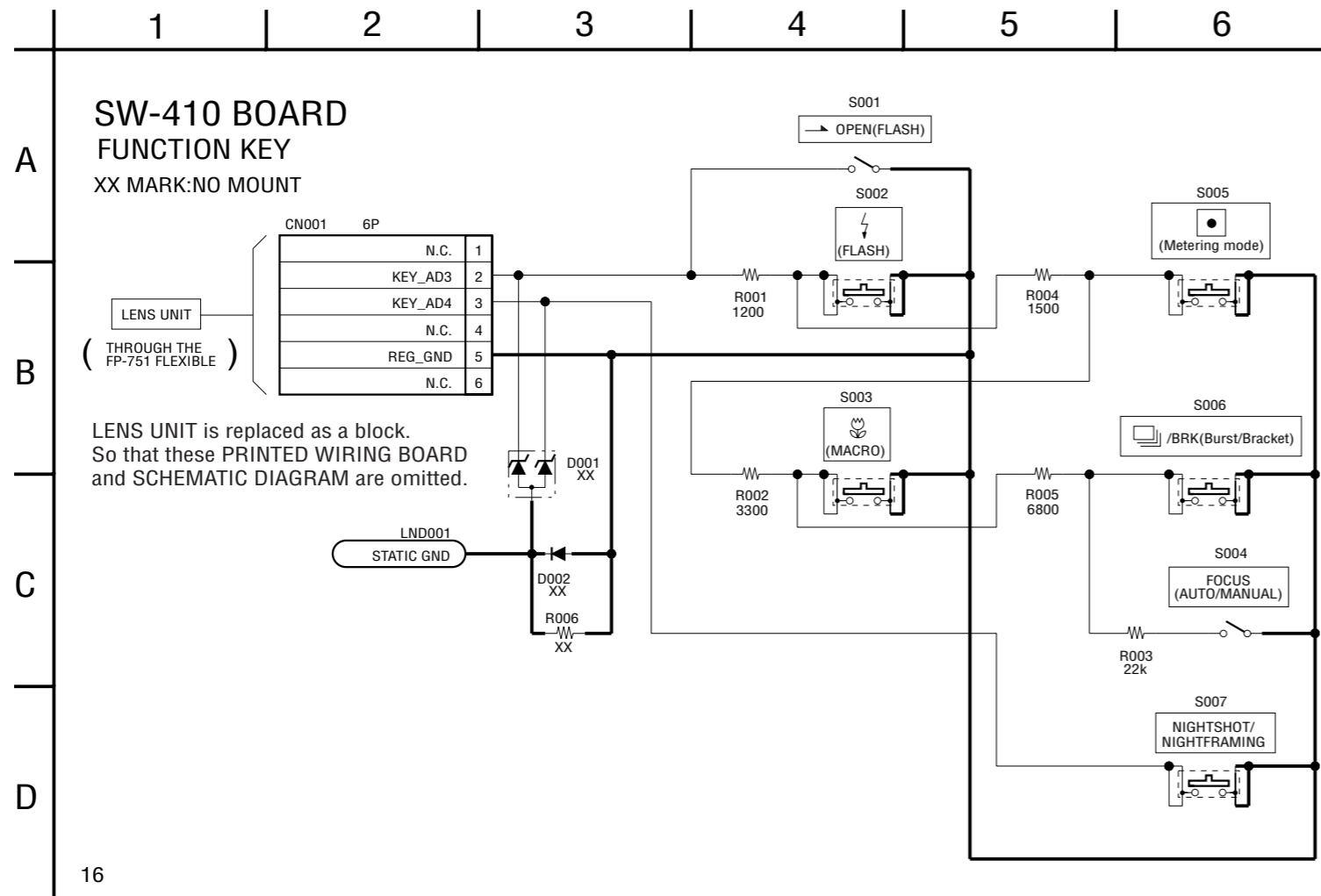
4-2. SCHEMATIC DIAGRAMS UA-003 BOARD LB-091 BOARD

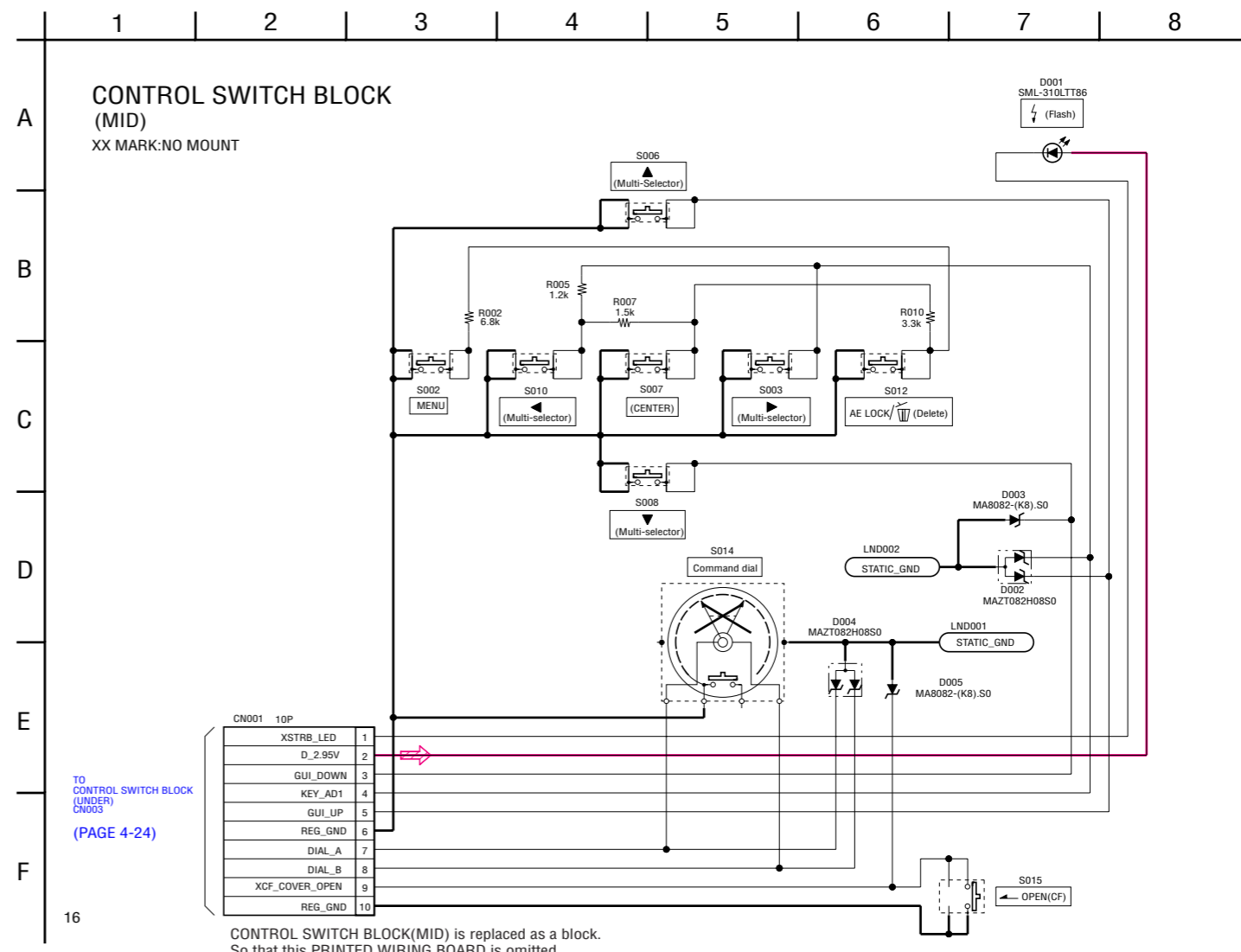
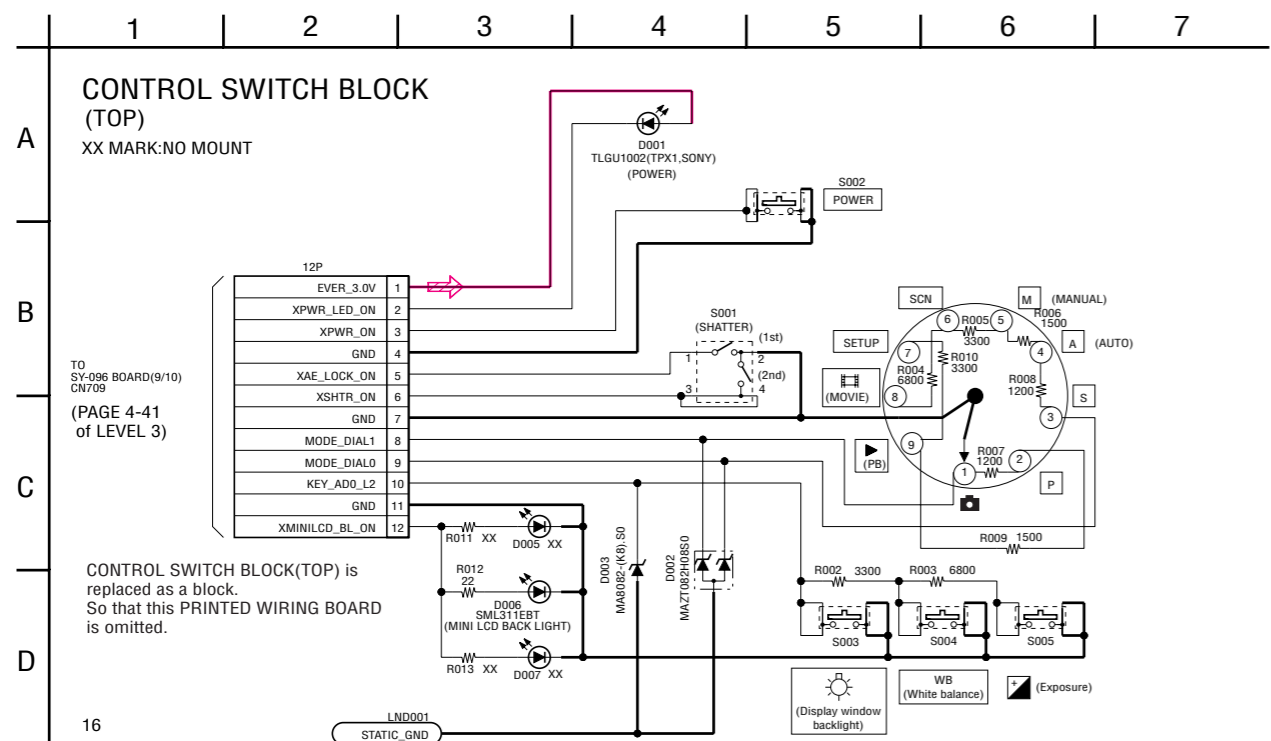
For Schematic Diagram
 • Refer to page 4-54 for printed wiring board.

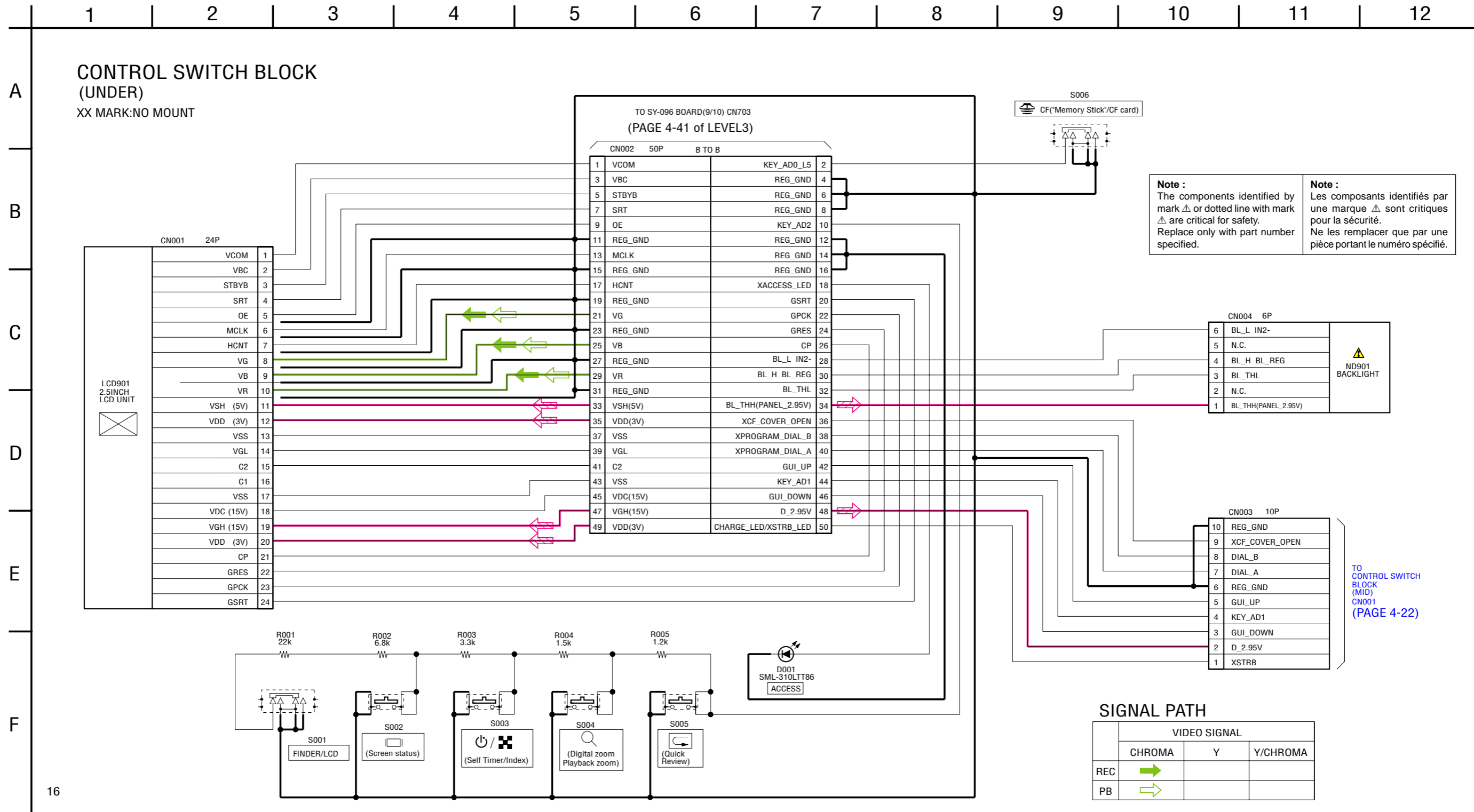


For Schematic Diagram

- Refer to page 4-57 for printed wiring board of SW-410.
- Refer to page 4-56 for printed wiring board of AJ-007.







CONTROL SWITCH BLOCK(UNDER) is replaced as a block.
So that this PRINTED WIRING BOARD is omitted.

Schematic diagrams of the SY-096 board are not shown.
Pages from 4-25 to 4-44 are not shown.

4-3. PRINTED WIRING BOARDS

Link

• DD-204 BOARD	• LB-091 BOARD
• LR-018 BOARD	• UA-003 BOARD
• ST-088 BOARD	• CF-097 BOARD
• MT-067 BOARD	• AJ-007 BOARD
• LS-067 BOARD	• SW-410 BOARD
• SI-037 BOARD	• FP-748 BOARD




• COMMON NOTE FOR PRINTED WIRING BOARDS	• MOUNTED PARTS LOCATION
• CIRCUIT BOARDS LOCATION	• CIRCUIT BOARDS AND FLEXIBLE BOARDS LOCATION

Board Name	Function
<i>DD-204</i>	<i>DC/DC CONVERTER</i>
<i>LR-018</i>	<i>BATTERY, RESET SW</i>
<i>ST-088</i>	<i>FLASH CONTROL</i>
<i>MT-067</i>	<i>FLASH MOTOR</i>
<i>LS-067</i>	<i>AF LASER</i>
<i>SI-037</i>	<i>FLASH, IR LED</i>
<i>LB-091</i>	<i>EVF, EVF BACK LIGHT</i>
<i>UA-003</i>	<i>AV, USB JACK</i>
<i>CF-097</i>	<i>CF CARD CONNECTOR</i>
<i>AJ-007</i>	<i>JACK</i>
<i>SW-410</i>	<i>FUNCTION KEY</i>
<i>FP-748</i>	<i>CONNECTOR</i>

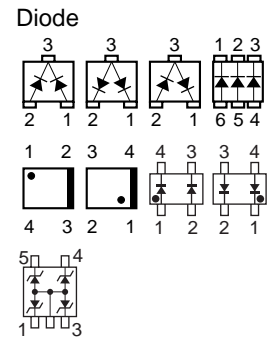
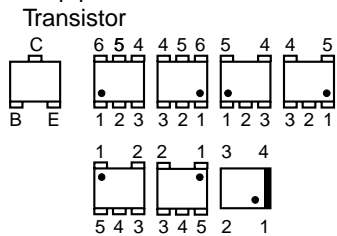
4-3. PRINTED WIRING BOARDS

THIS NOTE IS COMMON FOR WIRING BOARDS
 (In addition to this, the necessary note is printed in each block)

(For printed wiring boards)

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

• Chip parts.




BOARD INFORMATION

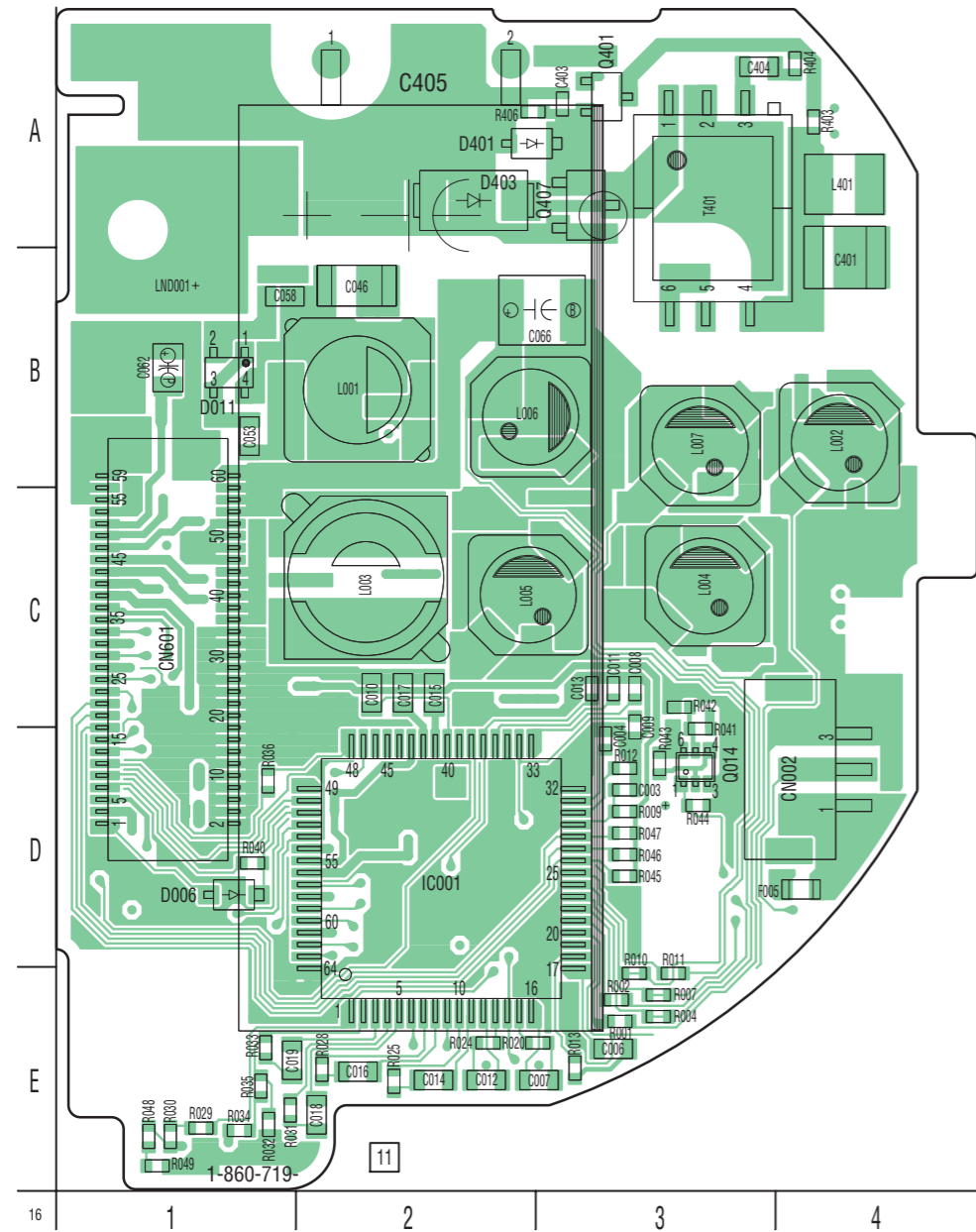
board name	parts location (shown on page)	pattern		CSP IC
		number of layers	layers not shown	
DD-204	4-63	6	2 to 5	—
LR-018	—	1	—	—
ST-088	4-63	6	2 to 5	—
MT-067	—	1	—	—
LS-067	—	1	—	—
SI-037	—	1	—	—
LB-091	—	1	—	—
UA-003	4-63	1	—	—
CF-097	4-63	2	—	—
AJ-007	4-63	2	—	—
SW-410	4-63	2	—	—
FP-748	—	1	—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

4-3. PRINTED WIRING BOARDS

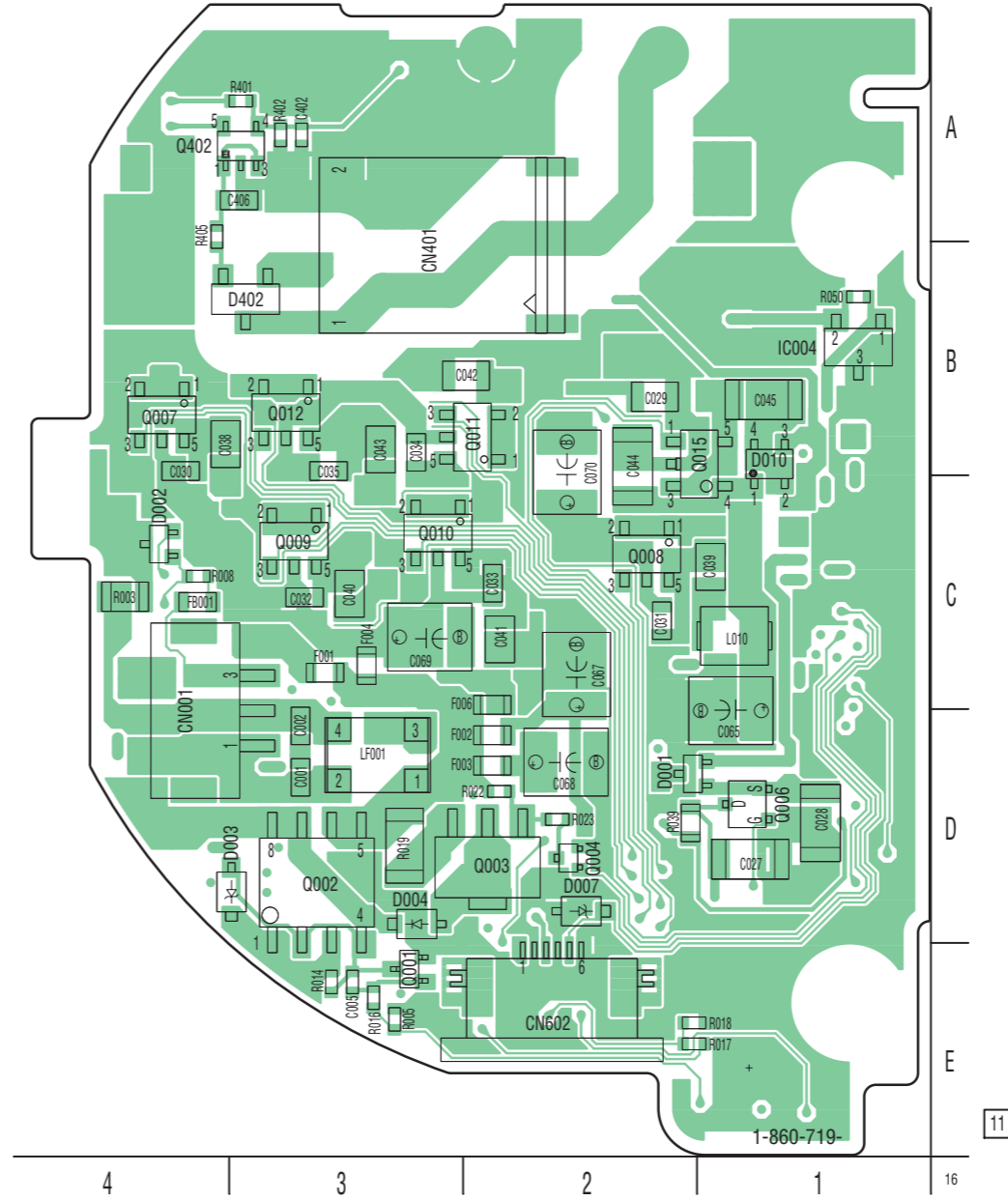
• Refer to page 4-47 for common note for printed wiring board.

•  : Uses unleaded solder.

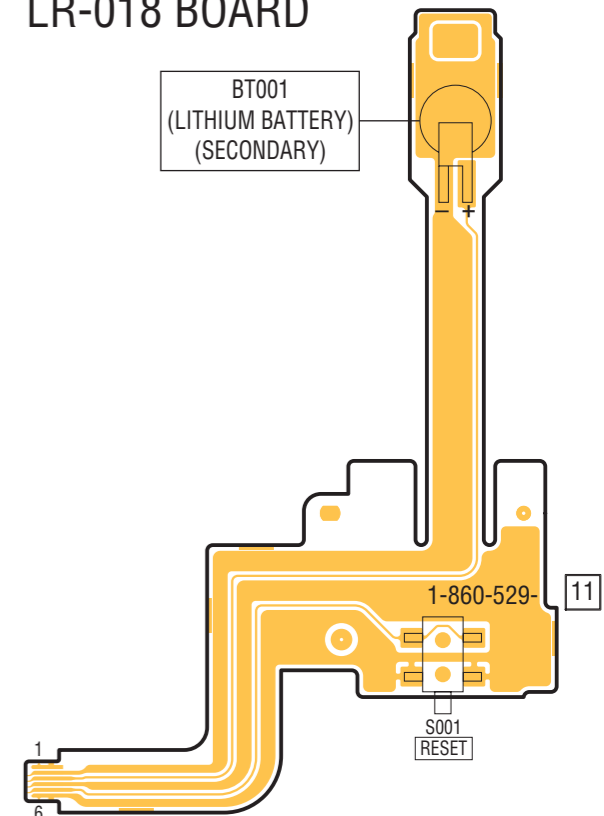
DD-204 BOARD(SIDE A)



DD-204 BOARD(SIDE B)



LR-018 BOARD




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

4-2. SCHEMATIC DIAGRAMS

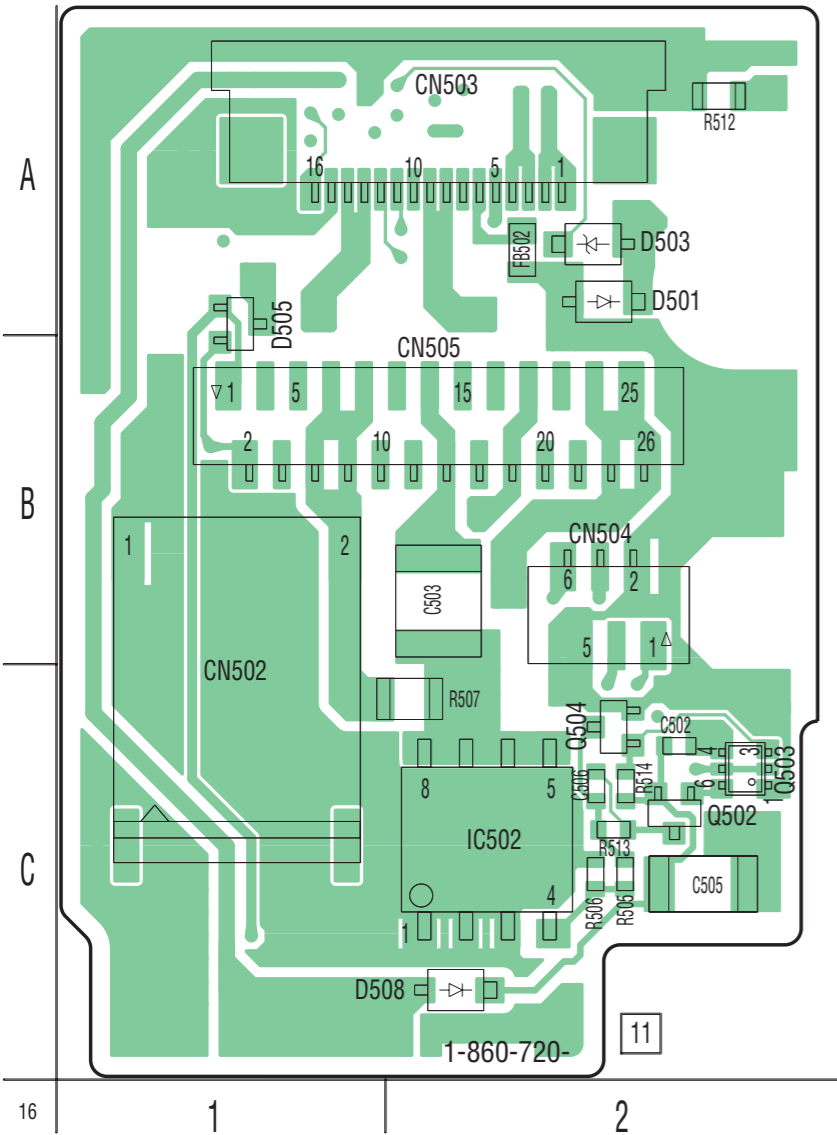
4-3. PRINTED WIRING BOARDS

MOUNTED PARTS LOCATION

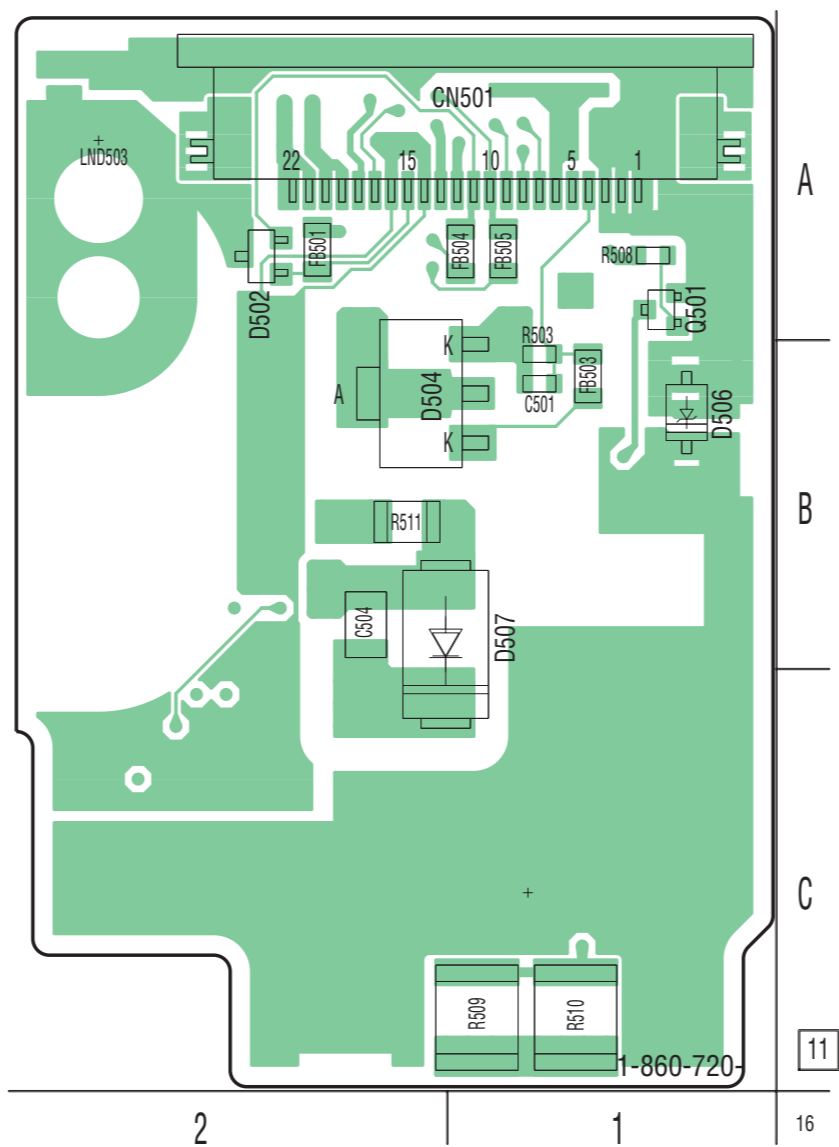
• Refer to page 4-47 for common note for printed wiring board.

•  : Uses unleaded solder.

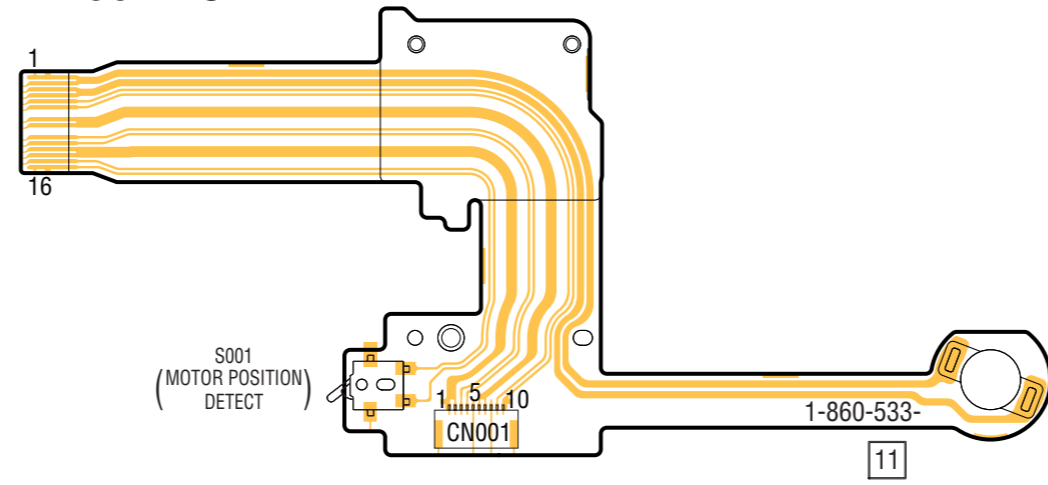
ST-088 BOARD(SIDE A)



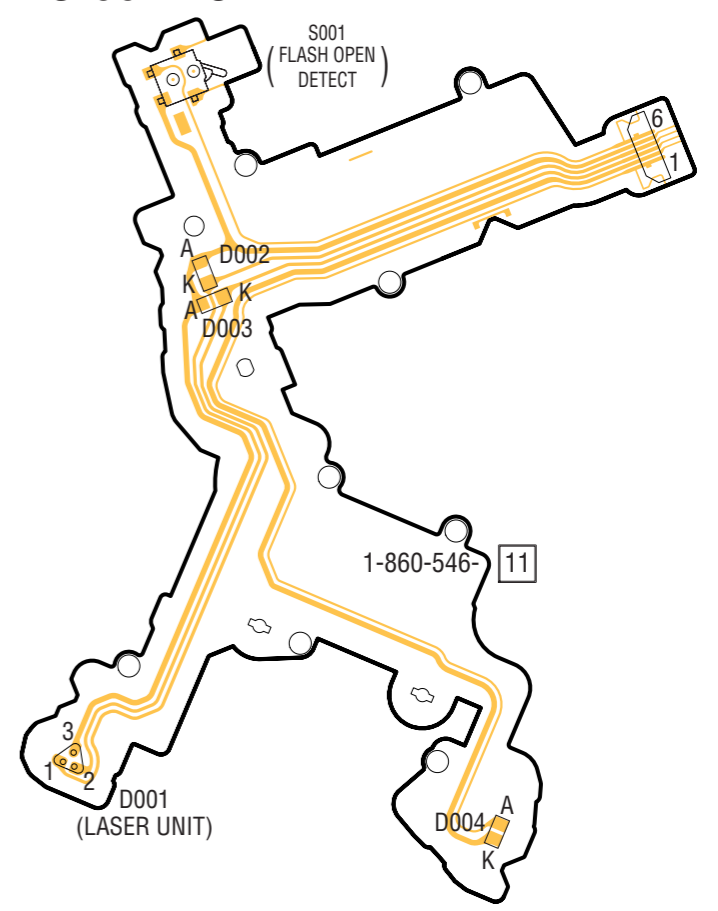
ST-088 BOARD(SIDE B)



MT-067 BOARD



LS-067 BOARD




Adjustment is needed when laser unit is replaced.

4-2. SCHEMATIC DIAGRAMS

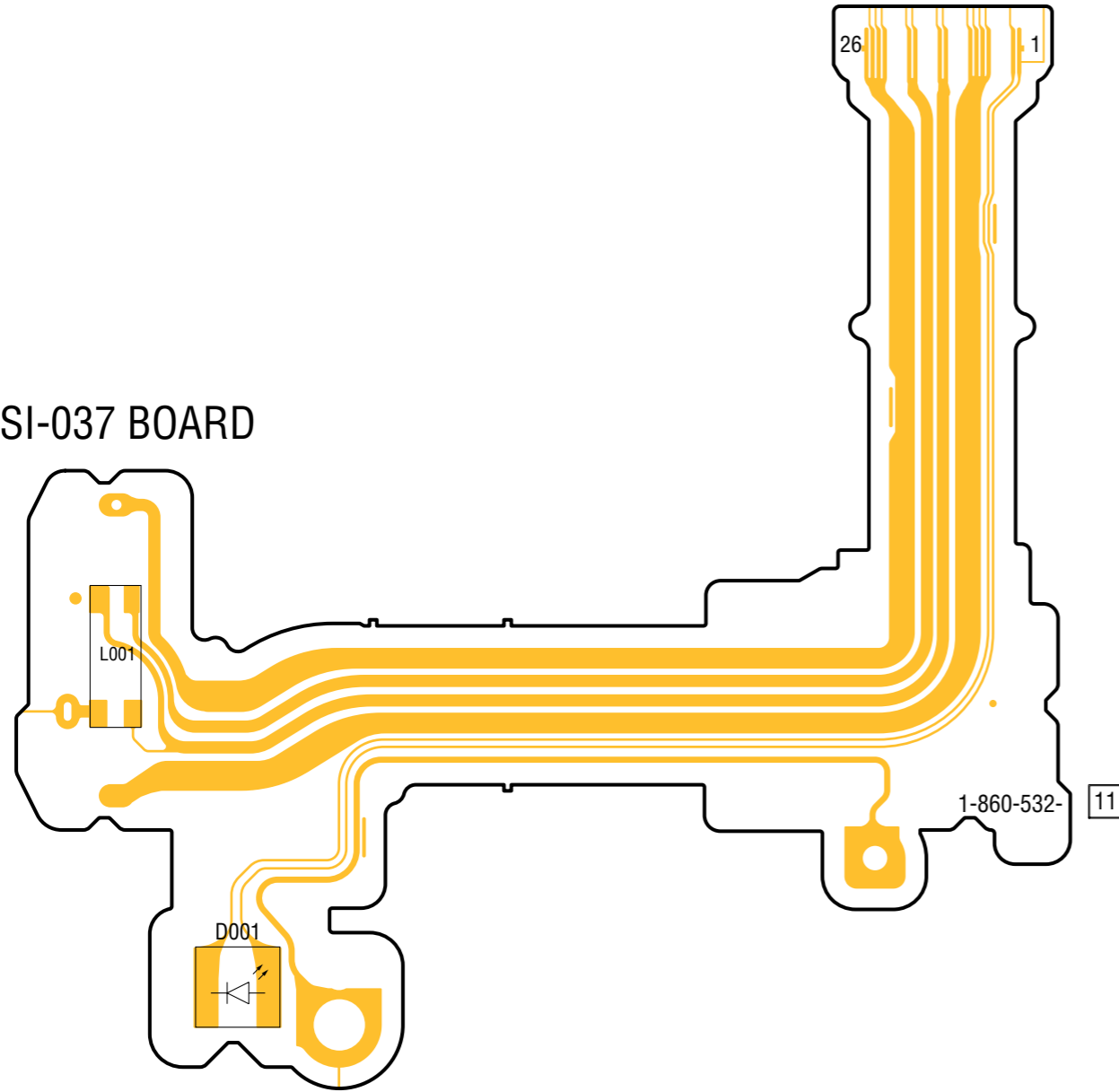
4-3. PRINTED WIRING BOARDS

MOUNTED PARTS LOCATION

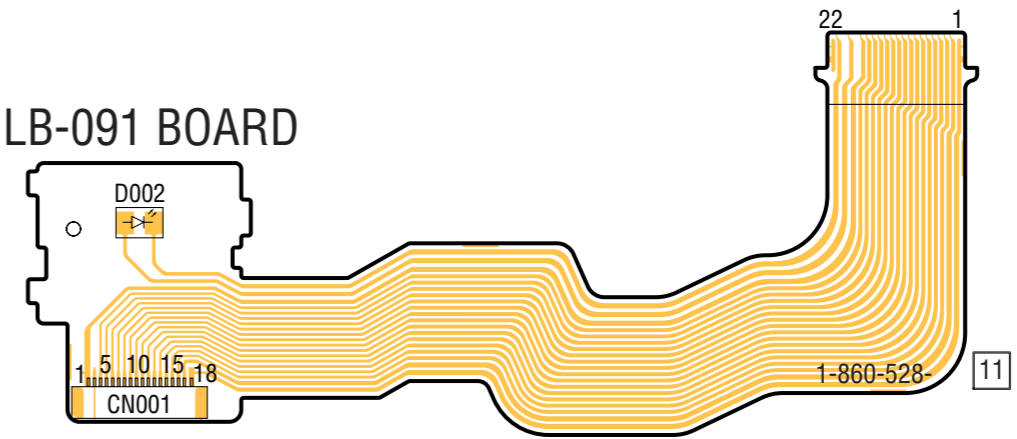
• Refer to page 4-47 for common note for printed wiring board.

•  : Uses unleaded solder.

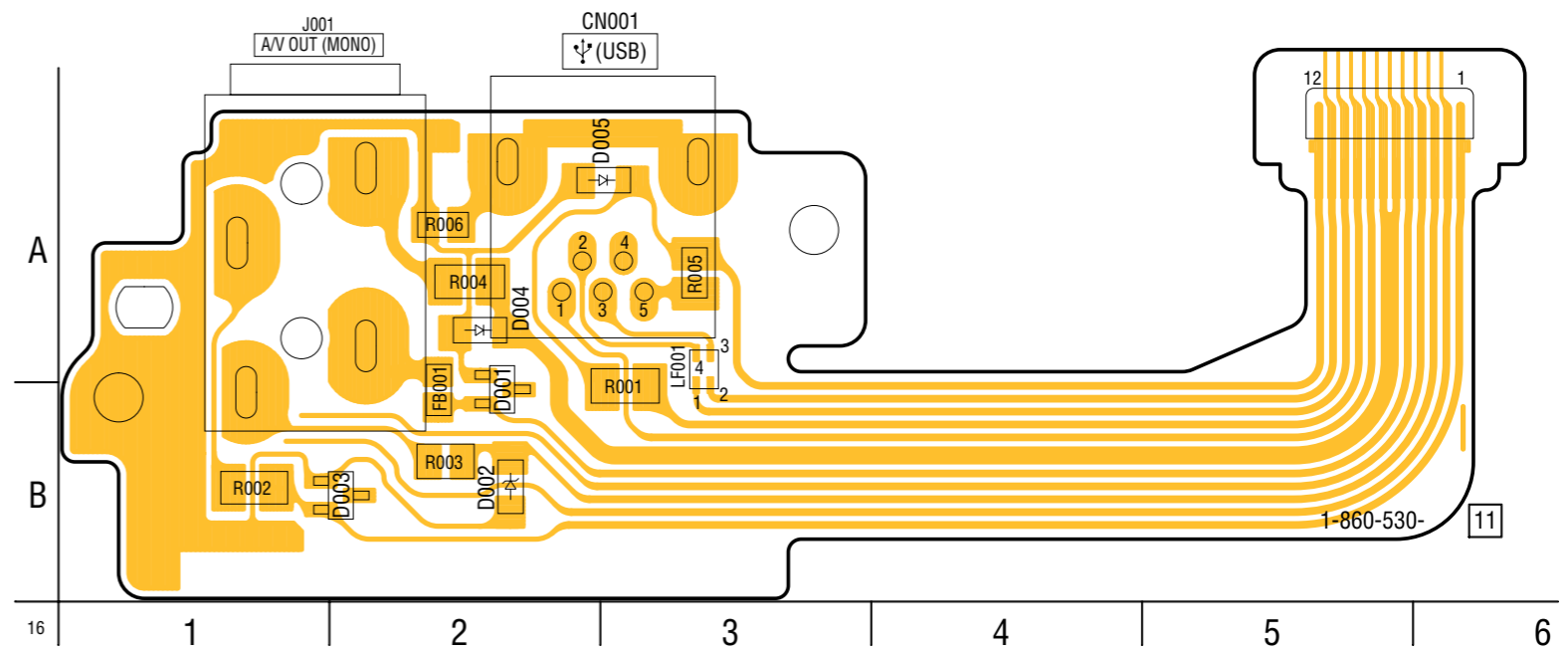
SI-037 BOARD



LB-091 BOARD



UA-003 BOARD




4-2. SCHEMATIC DIAGRAMS

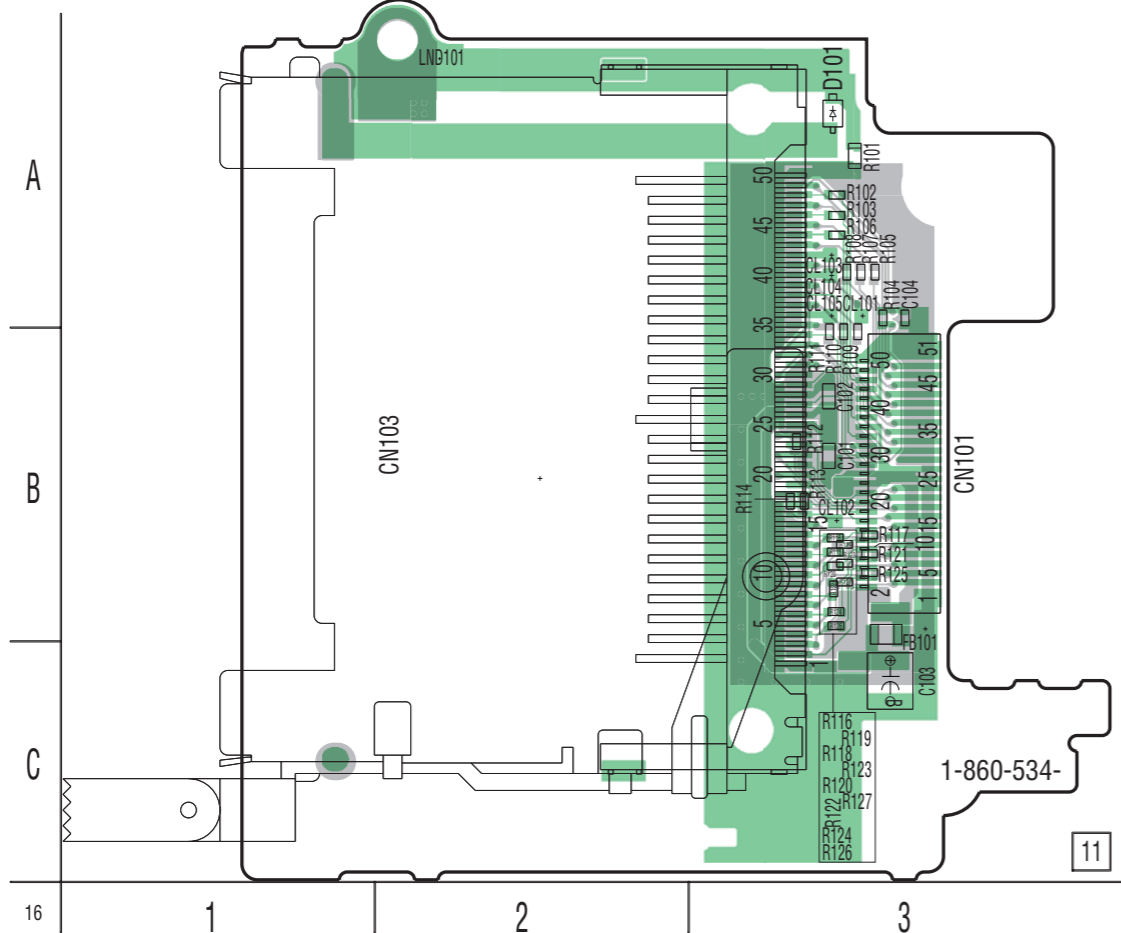
4-3. PRINTED WIRING BOARDS

MOUNTED PARTS LOCATION

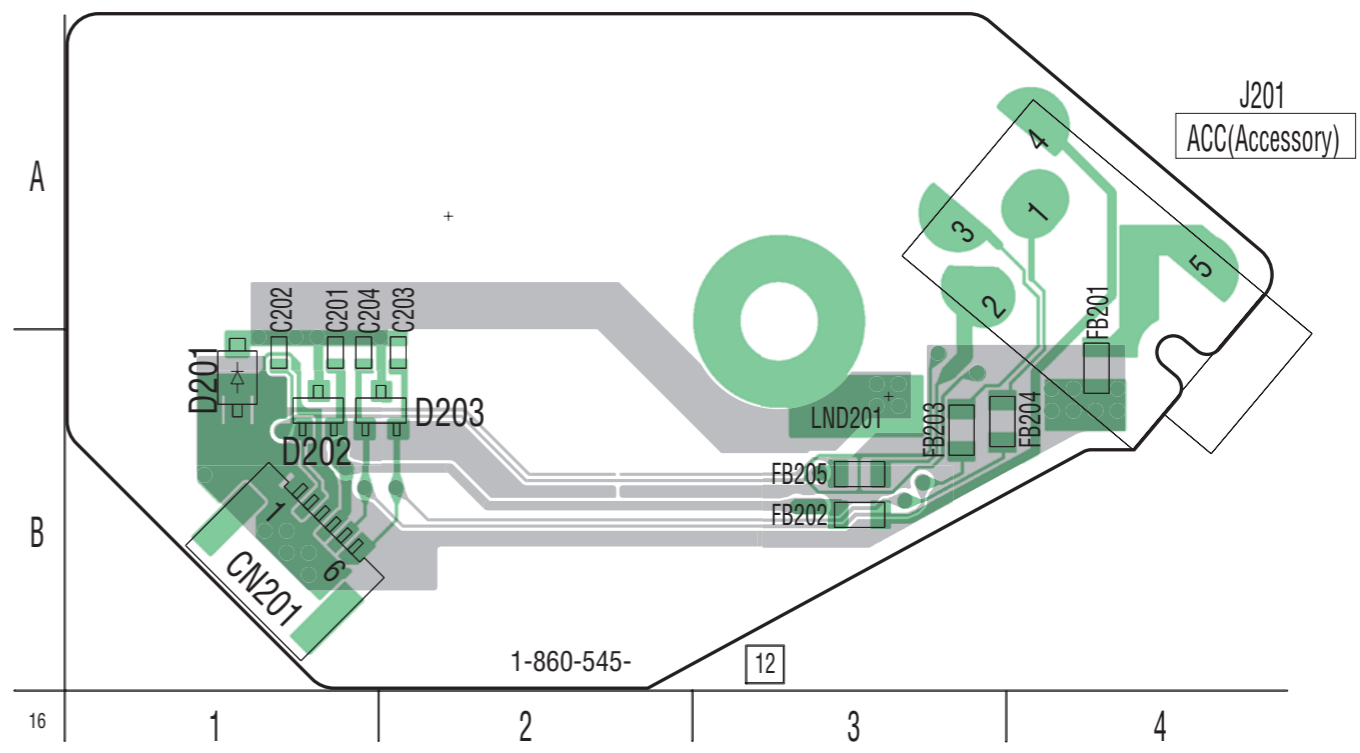
• Refer to page 4-47 for common note for printed wiring board.

•  : Uses unleaded solder.


CF-097 BOARD



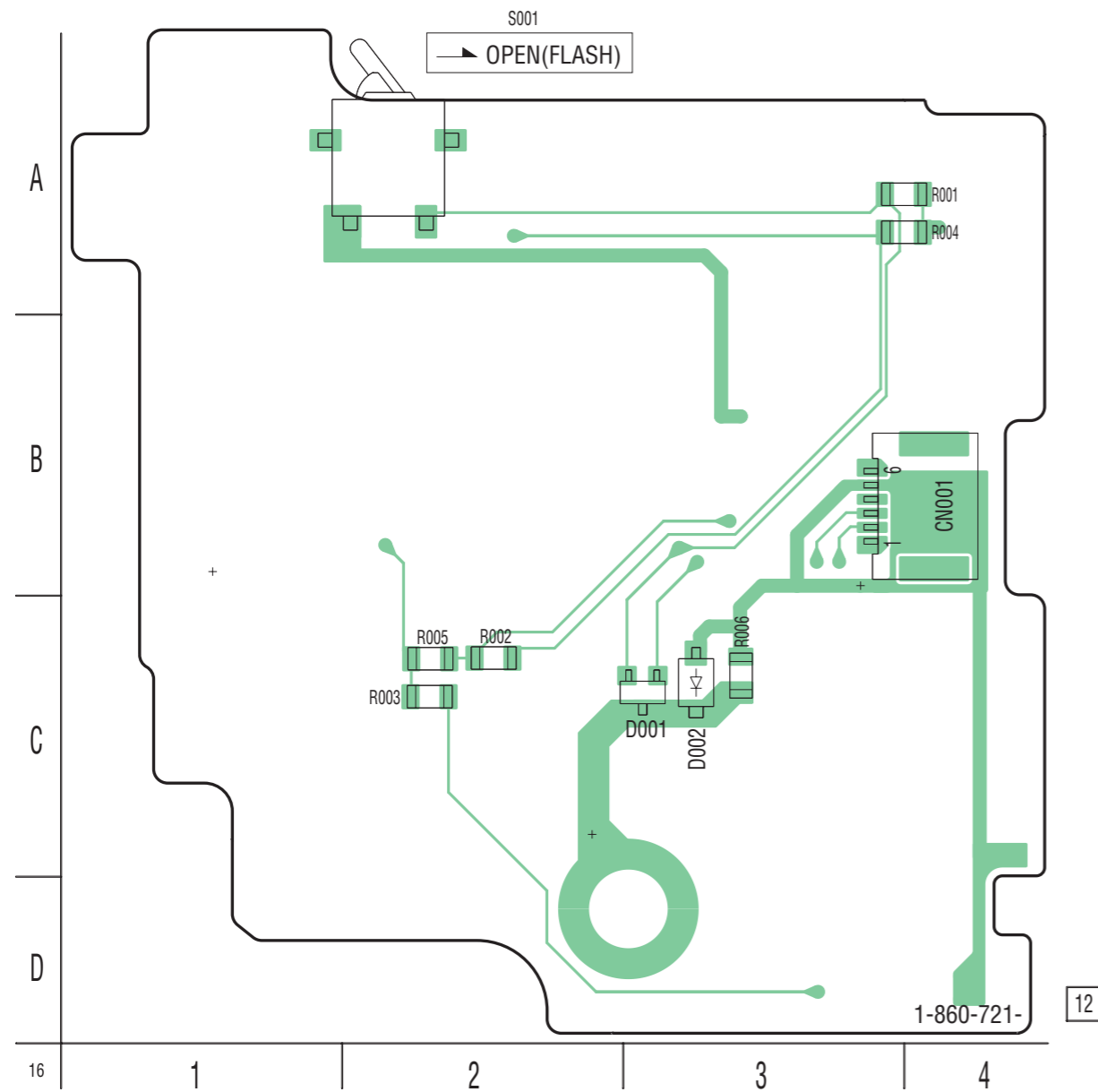
AJ-007 BOARD



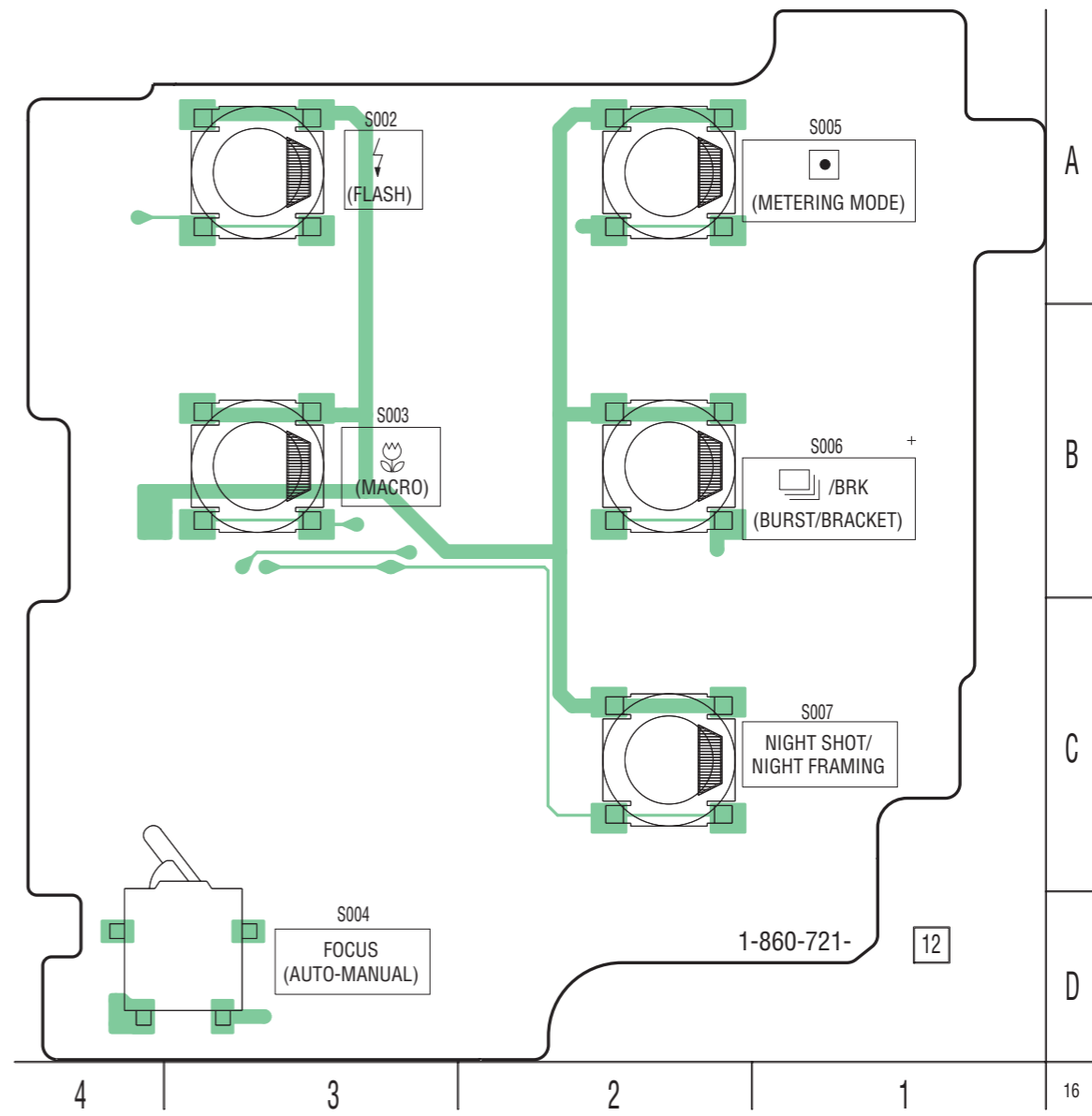
• Refer to page 4-47 for common note for printed wiring board.

•  : Uses unleaded solder.

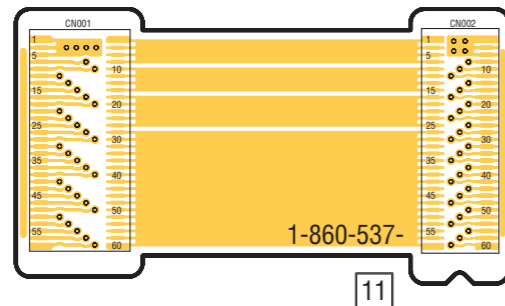
SW-410 BOARD(SIDE A)



SW-410 BOARD(SIDE B)



FP-748 BOARD



Printed wiring board of the SY-096 board is not shown. Pages from 4-59 to 4-62 are not shown.

4-4. MOUNTED PARTS LOCATION

no mark : side A
* mark : side B

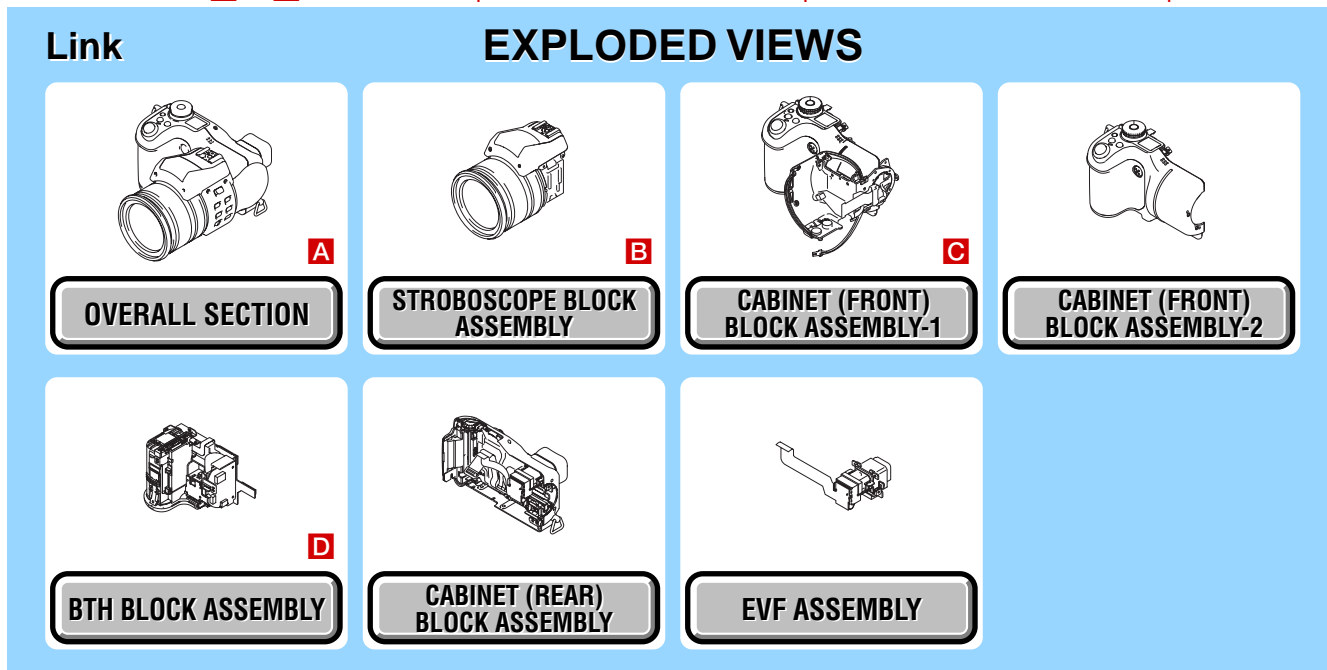
DD-204 BOARD		ST-088 BOARD		CF-097 BOARD		AJ-007 BOARD		SW-410 BOARD			
* C001	D-3	L001	B-2	* C501	B-1	C101	B-3	C201	B-1	CN001	B-4
* C002	D-3	L002	B-4	C502	C-2	C102	B-3	C202	B-1		
C003	D-3	L003	C-2	C503	B-2	C103	C-3	C203	B-1	D001	C-3
C004	D-3	L004	C-3	* C504	B-2	C104	A-3	C204	B-1	D002	C-3
* C005	E-3	L005	C-2	C505	C-2					R001	A-4
C006	E-3	L006	B-2	C506	C-2	CN101	B-3	CN201	B-1	R002	C-2
C007	E-2	L007	B-3			CN103	B-2			R003	C-2
C008	C-3	* L010	C-1	* CN501	A-1			D201	B-1	R004	A-4
C009	C-3	L401	A-4	CN502	C-1	D101	A-3	D202	B-1	R005	C-2
C010	C-2			CN503	A-2			D203	B-1	R006	C-3
C011	C-3	* LF001	D-3	CN504	B-2	FB101	B-3				
C012	E-2			CN505	B-2			FB201	B-4	S001	A-2
C013	C-3	* Q001	E-3			R101	A-3	FB202	B-3	* S002	A-3
C014	E-2	* Q002	D-3	D501	A-2	R102	A-3	FB203	B-3	* S003	B-3
C015	C-2	* Q003	D-2	* D502	A-2	R103	A-3	FB204	B-3	* S004	D-3
C016	E-2	* Q004	D-2	D503	A-2	R104	A-3	FB205	B-3	* S005	A-2
C017	C-2	* Q006	D-1	* D504	B-2	* R105	A-3			* S006	B-2
C018	E-2	* Q007	B-4	D505	A-1	R106	A-3	J201	A-4	* S007	C-2
C019	E-1	* Q008	C-2	* D506	B-1	* R107	A-3				
* C027	D-1	* Q009	C-3	* D507	B-1	* R108	A-3				
* C028	D-1	* Q010	C-3	* Q010	C-3	* R109	B-3				
* C029	B-2	* Q011	B-2	D508	C-2	* R110	B-3				
* C030	B-4	* Q012	B-3	* FB501	A-2	* R111	B-3				
* C031	C-2	Q014	D-3	FB502	A-2	* R112	B-3				
* C032	C-3	* Q015	B-1	* FB503	B-1	* R113	B-3				
* C033	C-2	Q401	A-3	* FB504	A-1	* R114	B-3				
* C034	B-3	* Q402	A-3	* FB505	A-1	R116	B-3				
* C035	B-3	Q407	A-3			* R117	B-3				
* C038	B-4			IC502	C-2	R118	B-3				
* C039	C-1	R001	E-3			* R119	B-3				
* C040	C-3	R002	E-3	* Q501	A-1	R120	B-3				
* C041	C-2	* R003	C-4	Q502	C-2	* R121	B-3				
* C042	B-2	R004	E-3	Q503	C-2	R122	B-3				
* C043	B-3	* R005	E-3	Q504	C-2	* R123	B-3				
* C044	B-2	R007	E-3			R124	B-3				
* C045	B-1	* R008	C-4	* R503	B-1	* R125	B-3				
C046	B-2	R009	D-3	R505	C-2	R126	B-3				
C053	B-1	R010	E-3	R506	C-2	* R127	B-3				
C058	B-1	R011	E-3	R507	C-2						
C062	B-1	R012	D-3	* R508	A-1						
* C065	C-1	R013	E-3	* R509	C-1						
C066	B-2	* R014	E-3	* R510	C-1						
* C067	C-2	* R016	E-3	* R511	B-2						
* C068	D-2	* R017	E-1	R512	A-2						
* C069	C-3	* R018	E-1	R513	C-2						
* C070	B-2	* R019	D-3	R514	C-2						
C401	B-4	R020	E-2								
* C402	A-3	* R022	D-2								
C403	A-3	* R023	D-2								
C404	A-3	R024	E-2								
C405	A-2	R025	E-2								
* C406	A-3	R028	E-2								
		R029	E-1								
* CN001	C-4	R030	E-1								
CN002	D-4	R031	E-1								
* CN401	A-3	R032	E-1								
CN601	C-1	R033	E-1								
* CN602	E-2	R034	E-1								
		R035	E-1								
* D001	D-2	R036	D-1								
* D002	C-4	* R039	D-2								
* D003	D-3	R040	D-1								
* D004	D-3	R041	C-3								
D006	D-1	R042	C-3								
* D007	D-2	R043	D-3								
* D010	B-1	R044	D-3								
D011	B-1	R045	D-3								
D401	A-2	R046	D-3								
* D402	B-3	R047	D-3								
D403	A-2	R048	E-1								
		R049	E-1								
* F001	C-3	* R050	B-1								
* F002	D-2	* R401	A-3								
* F003	D-2	* R402	A-3								
* F004	C-3	R403	A-4								
F005	D-4	R404	A-4								
* F006	C-2	* R405	A-4								
		R406	A-2								
* FB001	C-4										
		T401	A-3								
IC001	D-2										
* IC004	B-1										

UA-003 BOARD

Mounted parts location of the SY-096 board are not shown.
Pages from 4-65 to 4-66 are not shown.

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	ELECTRICAL PARTS LIST		ACCESSORIES
AJ-007 BOARD C	LR-018 BOARD	SW-410 BOARD A	
CF-097 BOARD D	LS-067 BOARD	SY-096 BOARD D	
DD-204 BOARD D	MT-067 BOARD	UA-003 BOARD	
FP-748 BOARD	SI-037 BOARD		
LB-091 BOARD	ST-088 BOARD B		

5. REPAIR PARTS LIST

NOTE:

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

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

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

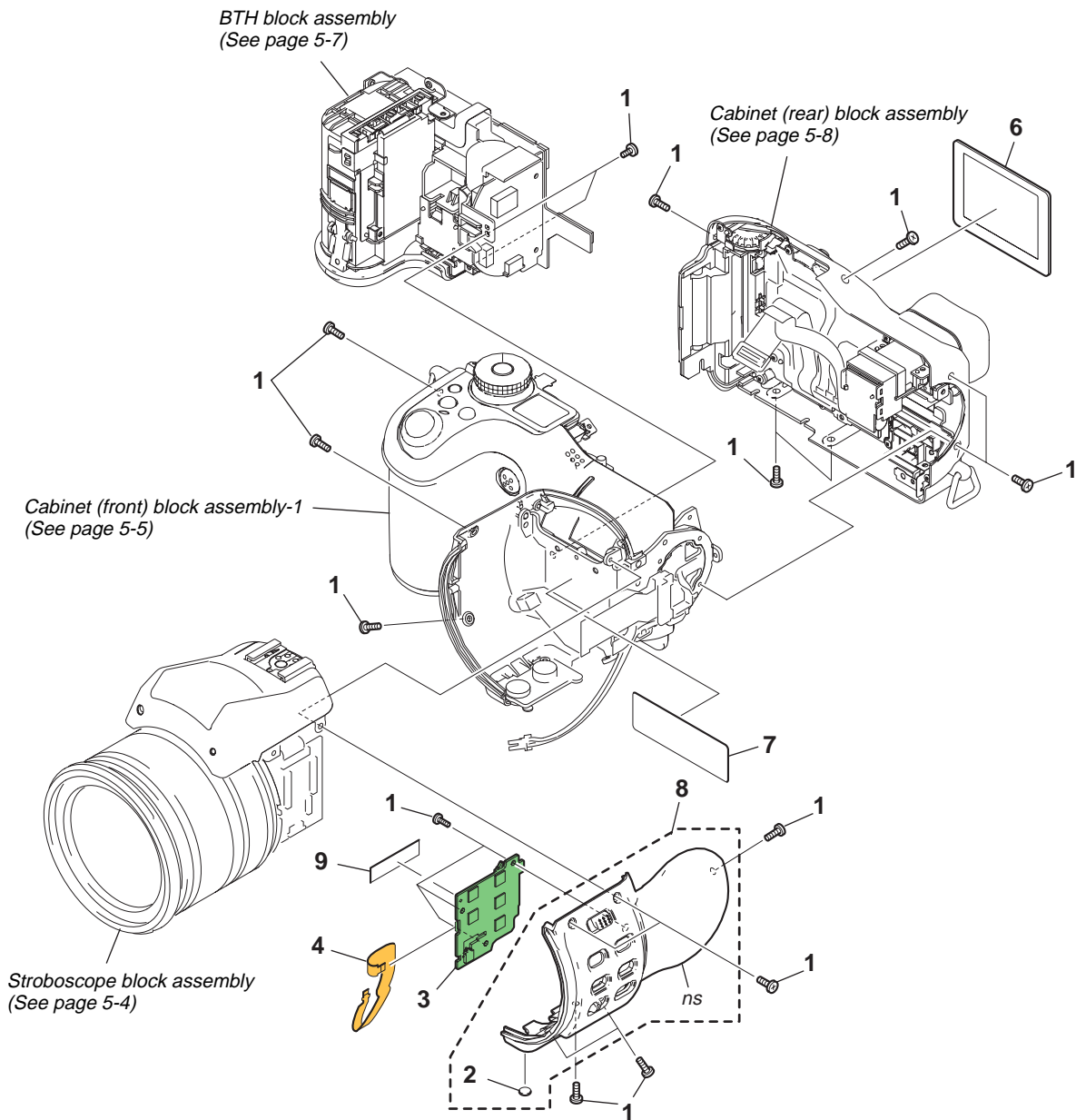
Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

5. REPAIR PARTS LIST

5-1. EXPLODED VIEWS

5-1-1. OVERALL SECTION

ns : not supplied



Ref. No.	Part No.	Description
1	3-080-203-31	SREW(M2),LOCK ACE,P2
2	3-051-124-01	FOOT, RUBBER
3	A-7078-878-A	SW-410 BOARD, COMPLETE
4	1-860-540-11	FP-751 FLEXIBLE BOARD

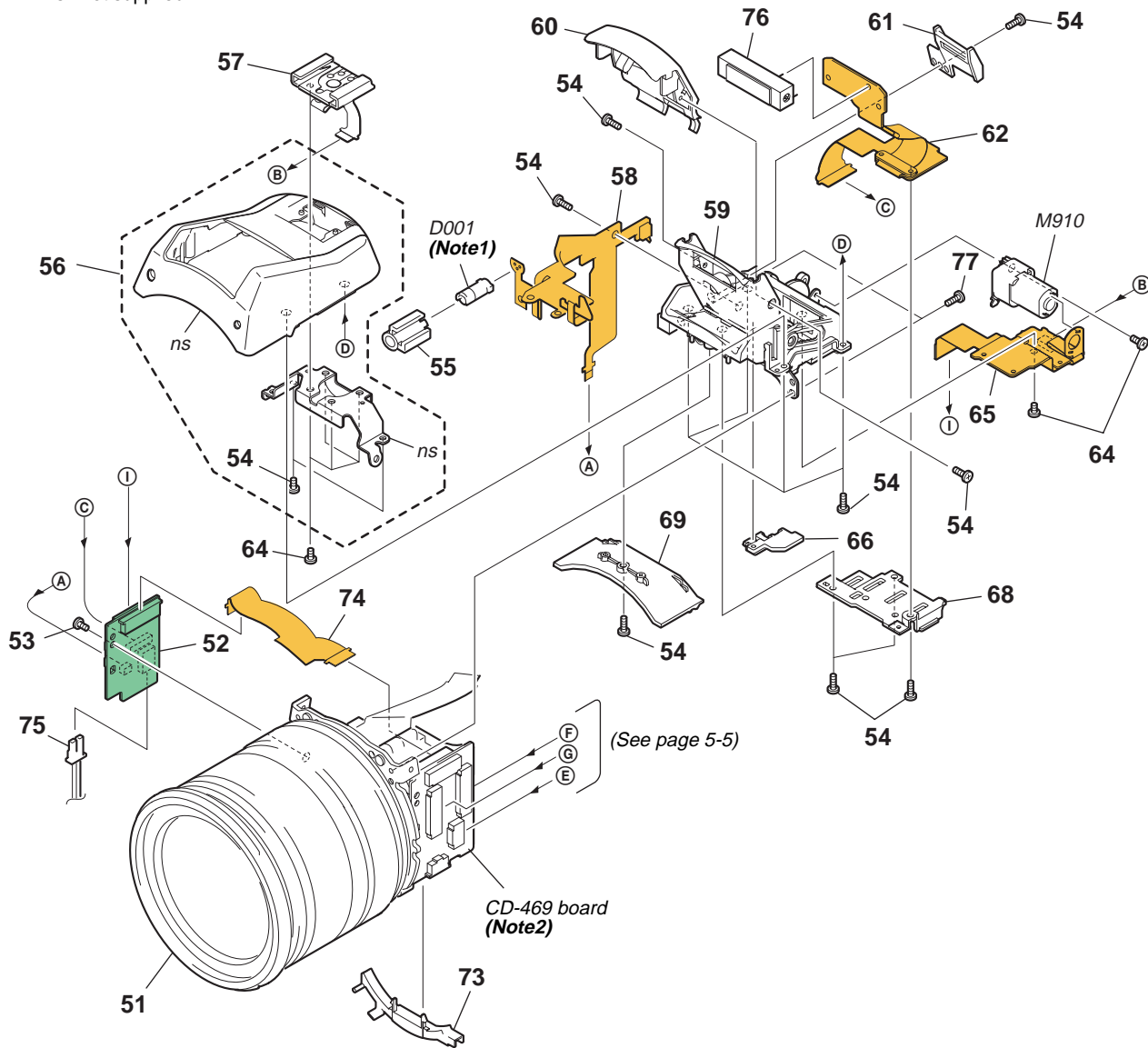
Ref. No.	Part No.	Description
6	3-086-480-01	WINDOW, LCD
7	3-089-846-01	RADIATION SHEET (LL)
8	X-3953-809-1	CABINET (LR) ASSY
9	(Note)	TAPE (A)

Note :
 For the part of 9: TAPE (A) (3-941-343-01) cut WOVEN (T0.25), FABRIC NON (3-076-631-01) into the desired length and use it.

5. REPAIR PARTS LIST

5-1-2. STROBOSCOPE BLOCK ASSEMBLY

ns : not supplied



Ref. No.	Part No.	Description
51	A-7112-735-A	REPAIR (EB08A) (LENS BLOCK ASSY)
52	A-7078-884-A	ST-088 BOARD, COMPLETE
53	3-989-735-51	SCREW (M1.7), LOCK ACE, P2
54	3-080-222-11	SCREW (M1.7), TAPPING,P2
55	3-086-499-01	HOLDER, ST LASER
56	X-3953-801-1	CABINET ASSY, ST
57	1-818-099-11	CONNECTOR, SHOE
58	A-7078-891-A	LS-067 BOARD, COMPLETE
59	X-3953-800-2	ST ASSY
60	3-086-493-01	COVER, ST
61	3-086-494-01	HOLDER, ST UNIT
△62	A-7078-889-A	SI-037 BOARD, COMPLETE

Ref. No.	Part No.	Description
64	3-084-817-01	GRIP
65	A-7078-890-A	MT-067 BOARD, COMPLETE
66	3-086-498-01	GUIDE, STFPC
68	3-086-495-01	COVER, STFPC
69	3-086-496-01	COVER, ST BLIND
73	3-086-497-01	GUIDE, HARNESS
74	1-860-539-11	FP-750 FLEXIBLE BOARD
75	1-962-610-11	HARNESS (PT-132)
△76	1-478-445-11	FLASH UNIT
77	3-080-203-31	SCREW (M2), LOCK ACE, P2
△D001	1-805-470-51	LASER UNIT (Note1)
M910	1-787-055-11	MOTOR, STROBOSCOPE (FLASH/MOTOR)

Note1 :
Adjustment is needed when laser unit is replaced.

Note2 :
CD-469 board is included in the REPAIR (EB08A) (LENS BLOCK ASSY). CD-469 board is not supplied as a single board since removing it as a single board requires adjustment.

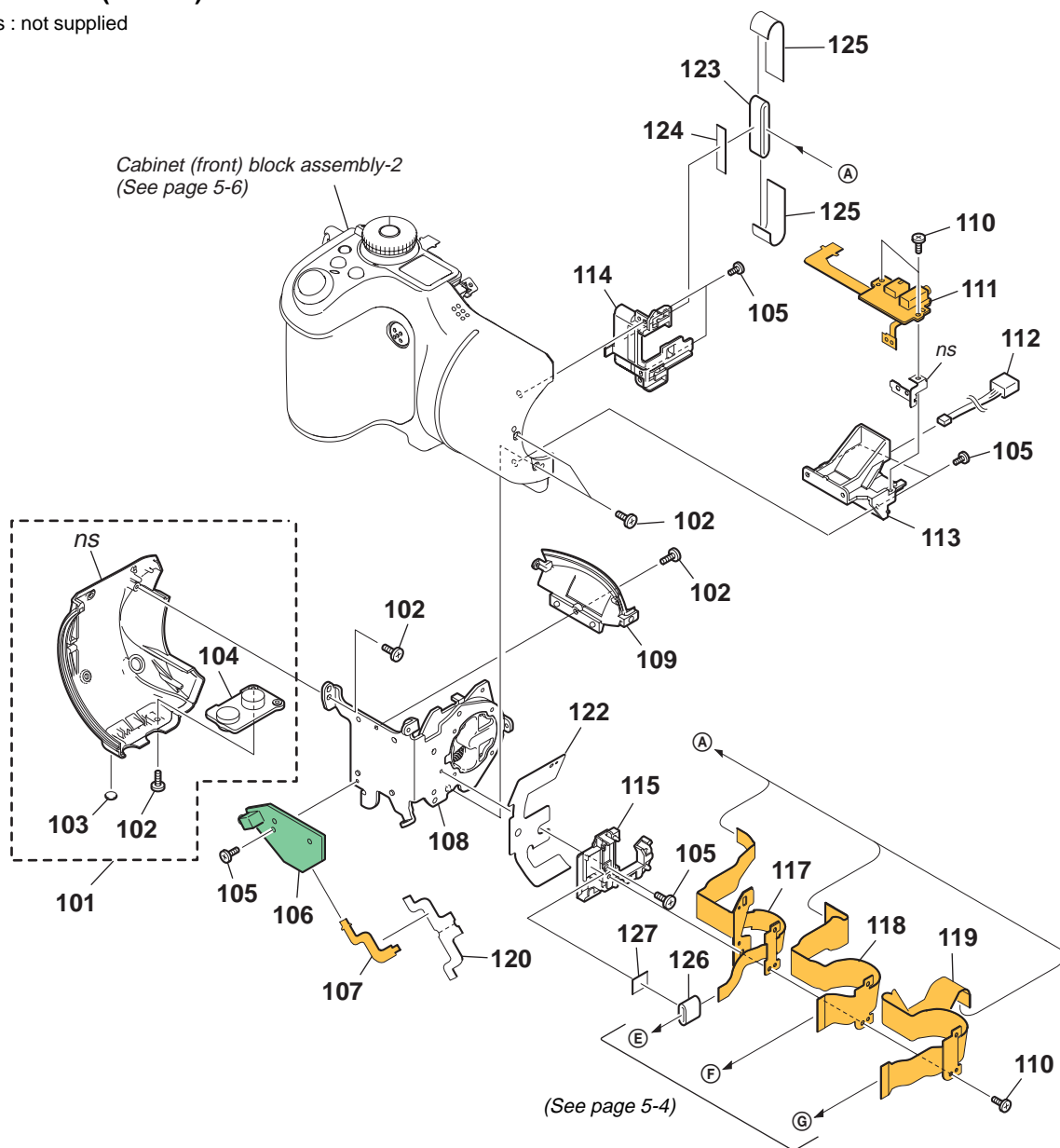
Note3 :
The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Note3 :
Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

5. REPAIR PARTS LIST

5-1-3. CABINET (FRONT) BLOCK ASSEMBLY-1

ns : not supplied



Ref. No.	Part No.	Description
101	X-3953-808-1	CABINET (LL) ASSY
102	3-080-203-31	SREW(M2),LOCK ACE,P2
103	3-051-124-01	FOOT, RUBBER
104	3-087-127-01	SCREW
105	3-989-735-51	SCREW (M1.7), LOCK ACE, P2
106	A-7078-885-A	AJ-007 BOARD, COMPLETE
107	1-860-531-11	AJ-006 FLEXIBLE BOARD
108	X-3953-799-1	HINGE ASSY
109	3-086-490-01	COVER, ST (ST UNDER COVER)
110	3-080-222-11	SCREW(M1.7), TAPPING,P2
111	A-7078-888-A	UA-003 BOARD, COMPLETE
112	1-794-045-61	CONNECTOR, DC-IN
113	X-3953-879-2	HOLDER ASSY, JACK

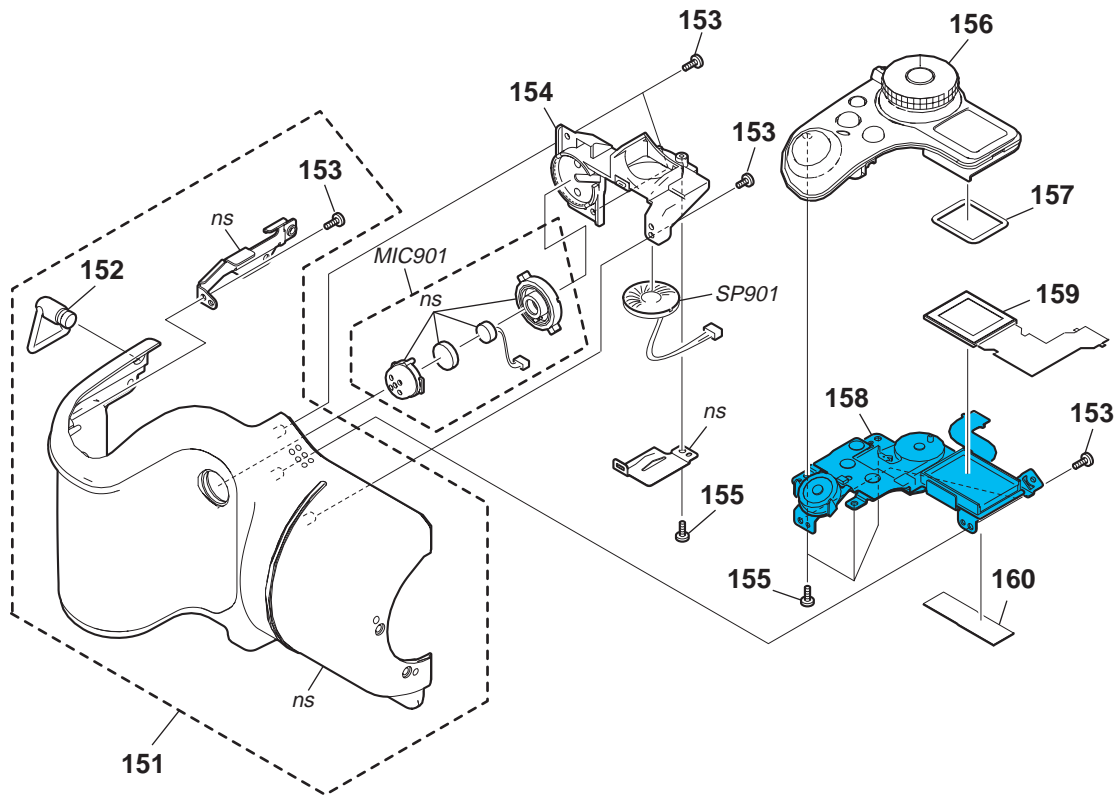
Ref. No.	Part No.	Description
114	3-086-485-01	GUIDE (L), FLEXIBLE
115	3-087-125-01	GUIDE (R), FLEXIBLE
117	1-860-541-11	FP-754 FLEXIBLE BOARD
118	1-860-535-11	FP-746 FLEXIBLE BOARD
119	1-860-536-11	FP-747 FLEXIBLE BOARD
120	3-090-857-01	SHEET (ACC)
122	3-089-843-01	RADIATION SHEET (LR)
123	1-400-689-11	FERRITE CORE
124	3-088-689-01	SHEET (F2) ADHESIVE
125	(Note)	TAPE (A)
126	1-400-687-11	FERRITE CORE
127	3-088-442-01	SHEET (F1) ADHESIVE

Note :
 For the part of 125: TAPE (A) (3-941-343-01) cut WOVEN (T0.25), FABRIC NON (3-076-631-01) into the desired length and use it.

5. REPAIR PARTS LIST

5-1-4. CABINET (FRONT) BLOCK ASSEMBLY-2

ns : not supplied



Ref. No.	Part No.	Description
151	X-3953-802-1	CABINET (FRONT) ASSY
152	3-087-116-01	BRACKET (FRONT), STRAP
153	3-989-735-51	SCREW (M1.7), LOCK ACE, P2
154	3-086-484-01	HOLDER, MICROPHONE
155	3-080-222-11	SCREW(M1.7), TAPPING,P2
156	X-3953-804-2	UPPER ASSY, CABINET

Ref. No.	Part No.	Description
157	3-087-108-01	CUSHION, MD
158	1-478-227-11	SWITCH BLOCK, CONTROL (TOP)
159	1-805-389-11	DISPLAY PANEL, LIQUID CRYSTAL
160	(Note)	TAPE (A)
MIC901	1-542-446-61	MICROPHONE
SP901	1-825-663-11	SPEAKER (1.6CM)

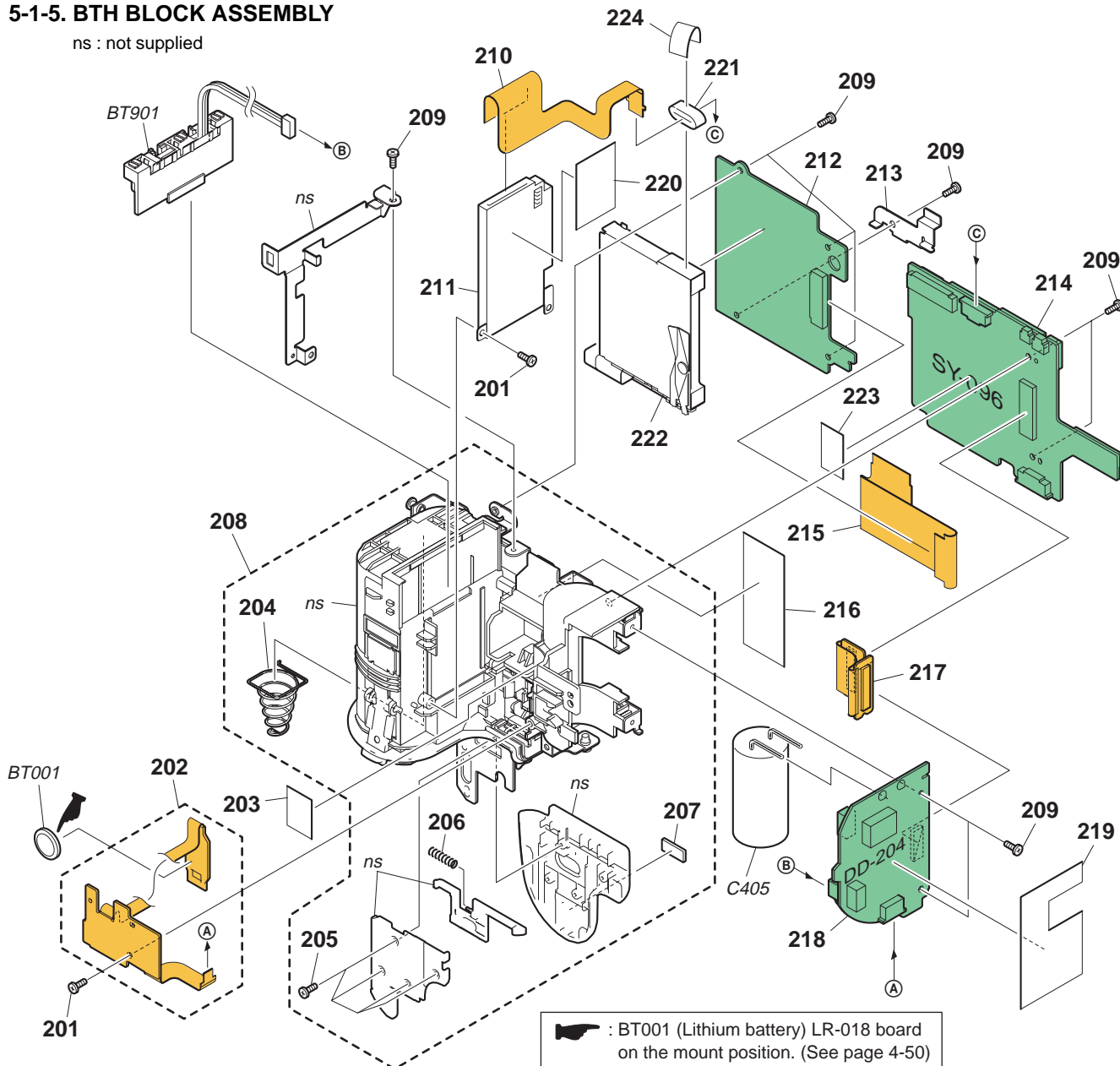
Note :

For the part of 160: TAPE (A) (3-941-343-01) cut WOVEN (T0.25), FABRIC NON (3-076-631-01) into the desired length and use it.

5. REPAIR PARTS LIST

5-1-5. BTH BLOCK ASSEMBLY

ns : not supplied



: BT001 (Lithium battery) LR-018 board on the mount position. (See page 4-50)

Ref. No.	Part No.	Description
201	3-080-222-11	SCREW(M1.7), TAPPING,P2
202	A-7078-880-A	LR-018 BOARD, COMPLETE
203	3-086-491-01	SHEET, CF RADIATION
204	3-969-380-01	SPRING, BATTERY
205	3-375-114-71	SCREW
206	3-050-594-01	SPRING, COMPRESSION
207	3-073-601-21	FOOT, RUBBER
208	X-3953-805-2	HOLDER ASSY, BT
209	3-989-735-51	SCREW (M1.7), LOCK ACE, P2
210	1-860-538-11	FP-749 FLEXIBLE BOARD
211	1-815-853-13	CONNECTOR, MEMORY STICK
212	A-7078-879-A	CF-097 BOARD, COMPLETE
213	3-087-187-01	RETAINER, SY
214	A-7079-008-A	SY-096 BOARD, COMPLETE (SERVICE)
215	1-860-717-11	FP-756 FLEXIBLE BOARD

Ref. No.	Part No.	Description
216	3-087-188-01	SHEET (B), CF RADIATION
217	A-7078-881-A	FP-748 BOARD, COMPLETE
218	A-7078-883-A	DD-204 BOARD, COMPLETE
219	3-086-487-02	LABEL,FUSE REPLACEMENT CAUTION
220	3-090-807-01	SHEET (MS)
221	1-500-227-21	BEAD, FERRITE
222	1-818-138-11	CONNECTOR, CARD(COMPACT FLASH)
223	3-090-809-01	CUSHION (SY)
224	(Note1)	TAPE (A)
BT901	1-694-796-41	TERMINAL BOARD, BATTERY
△C405	1-100-734-11	CAP, ELECT (FLASH) 250MF 315V

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

Note1 :
 For the part of 224: TAPE (A) (3-941-343-01) cut WOVEN (T0.25), FABRIC NON (3-076-631-01) into the desired length and use it.

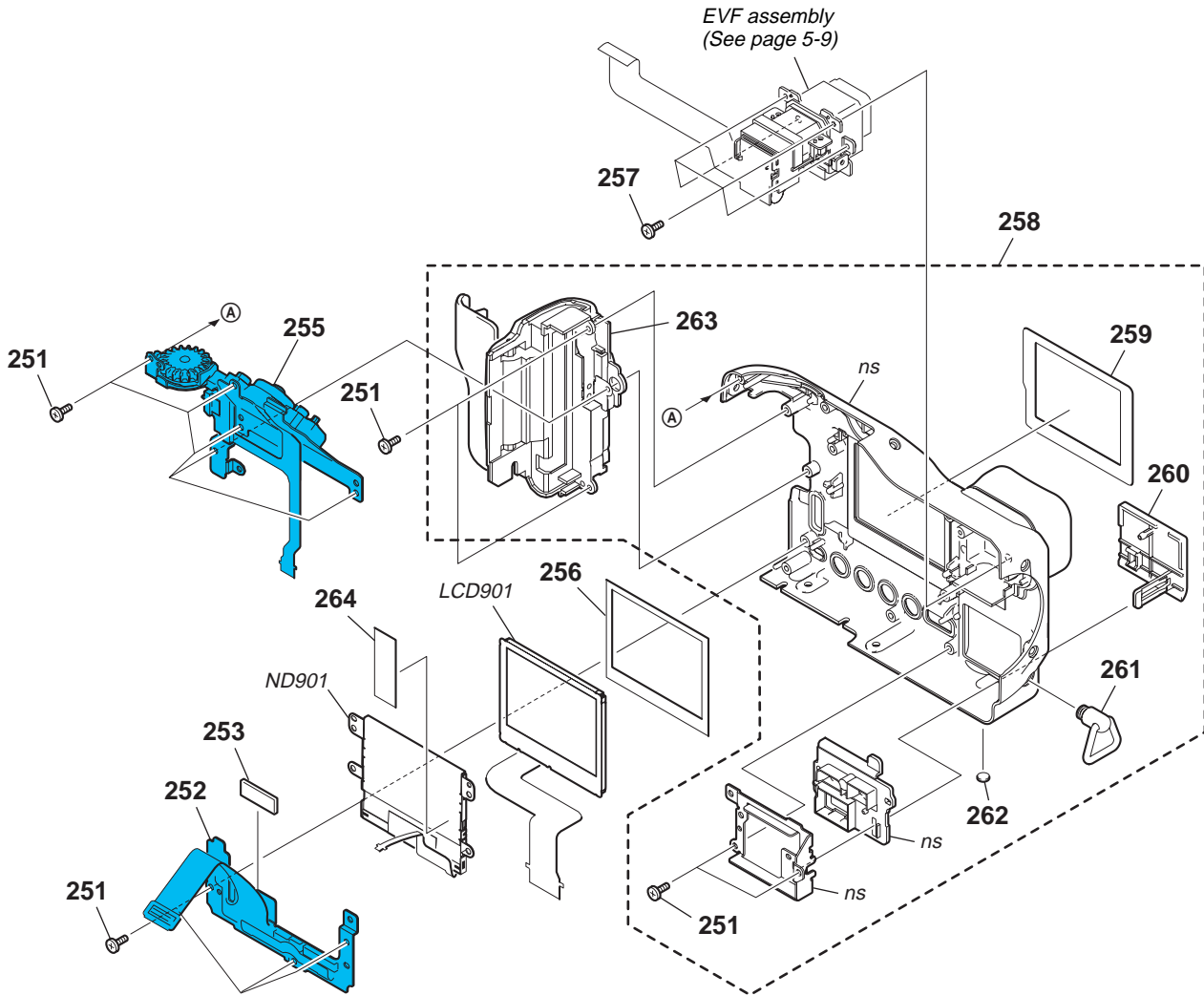
Note2 :
 The components identified by mark △ or dotted line with mark △ are critical for safety.
 Replace only with part number specified.

Note2 :
 Les composants identifiés par une marque △ sont critiques pour la sécurité.
 Ne les remplacer que par une pièce portant le numéro spécifié.

5. REPAIR PARTS LIST

5-1-6. CABINET (REAR) BLOCK ASSEMBLY

ns : not supplied



Ref. No.	Part No.	Description
251	3-989-735-51	SCREW (M1.7), LOCK ACE, P2
252	1-478-229-11	SWITCH BLOCK, CONTROL (UNDER)
253	3-090-369-01	TAPE (F3)
255	1-478-228-11	SWITCH BLOCK, CONTROL(MID)
256	3-086-488-01	CUSHION, LCD
257	3-080-222-11	SCREW(M1.7), TAPPING,P2
258	X-3953-806-2	CABINET (REAR) ASSY
259	3-087-155-03	SHEET, ADHESIVE, LCD WINDOW

Ref. No.	Part No.	Description
260	3-087-153-01	COVER, JACK
261	3-087-157-01	BRACKET, STRAP
262	3-051-124-01	FOOT, RUBBER
263	X-3953-944-1	LID, CF ASSY (SERVICE)
264	(Note1)	TAPE (A)
LCD901	1-805-380-21	INDICATOR MODULE LIQUID CRYST
△ ND901	1-478-145-11	BLOCK LIGHT GUIDE PLATE

Note1 :
For the part of 264: TAPE (A) (3-941-343-01) cut WOVEN (T0.25), FABRIC NON (3-076-631-01) into the desired length and use it.

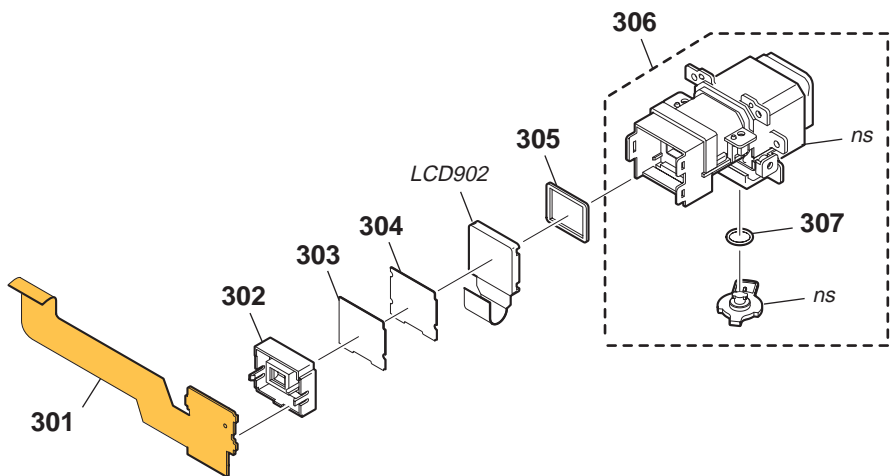
Note2 :
The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Note2 :
Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

5. REPAIR PARTS LIST

5-1-7. EVF ASSEMBLY

ns : not supplied



Ref. No.	Part No.	Description
301	A-7078-887-A	LB-091 BOARD, COMPLETE
302	3-072-214-01	GUIDE (20), LAMP
303	3-072-211-01	ILLUMINATOR
304	3-072-210-01	SHEET, PRISM

Ref. No.	Part No.	Description
305	3-059-734-01	CUSHION (1), LCD
306	X-3953-807-1	EVF ASSY
307	3-950-044-01	RING, O
LCD902	8-753-039-35	LCX044AK-1

AJ-007

CF-097

DD-204

5-2. ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description			
	A-7078-885-A	AJ-007 BOARD, COMPLETE *****			
		< CAPACITOR >			
C201	1-164-937-11	CERAMIC CHIP	0.001uF	10.00%	50V
C204	1-164-937-11	CERAMIC CHIP	0.001uF	10.00%	50V
		< CONNECTOR >			
CN201	1-817-548-11	CONNECTOR, FPC 6P			
		< DIODE >			
D201	1-216-295-11	METAL CHIP	0	(Note)	
D202	8-719-075-15	DIODE MAZT082H08S0			
D203	8-719-075-15	DIODE MAZT082H08S0			
		< FERRITE BEAD >			
FB201	1-469-179-21	FERRITE	0uH		
FB202	1-469-179-21	FERRITE	0uH		
FB203	1-469-179-21	FERRITE	0uH		
FB204	1-469-179-21	FERRITE	0uH		
FB205	1-469-179-21	FERRITE	0uH		
		< JACK >			
J201	1-793-995-21	JACK, SUPER SMALL TYPE (ACC (Accessory))			
	A-7078-879-A	CF-097 BOARD, COMPLETE *****			
		< CAPACITOR >			
C101	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C102	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C103	1-100-662-11	TANTAL. CHIP	47uF	20%	6.3V
		< CONNECTOR >			
CN101	1-794-505-21	CONNECTOR, FPC (ZIF) 51P			
CN103	1-818-139-11	PIN, CONNECTOR (CF CARD) 50P			
		< DIODE >			
D101	8-719-073-01	DIODE MA111-(K8).S0			
		< FERRITE BEAD >			
FB101	1-469-775-21	FERRITE	0uH		
		< RESISTOR >			
R101	1-216-864-11	METAL CHIP	0	5%	1/16W
R102	1-218-937-11	RES-CHIP	47	5%	1/16W
R103	1-218-937-11	RES-CHIP	47	5%	1/16W
R104	1-218-990-11	SHORT CHIP	0		
R105	1-218-937-11	RES-CHIP	47	5%	1/16W
R106	1-218-937-11	RES-CHIP	47	5%	1/16W
R107	1-218-937-11	RES-CHIP	47	5%	1/16W
R108	1-218-937-11	RES-CHIP	47	5%	1/16W
R109	1-218-937-11	RES-CHIP	47	5%	1/16W
R110	1-218-937-11	RES-CHIP	47	5%	1/16W

Ref. No.	Part No.	Description			
R111	1-218-937-11	RES-CHIP	47	5%	1/16W
R112	1-218-937-11	RES-CHIP	47	5%	1/16W
R113	1-218-937-11	RES-CHIP	47	5%	1/16W
R114	1-218-937-11	RES-CHIP	47	5%	1/16W
R116	1-218-937-11	RES-CHIP	47	5%	1/16W
R117	1-218-937-11	RES-CHIP	47	5%	1/16W
R118	1-218-937-11	RES-CHIP	47	5%	1/16W
R119	1-218-937-11	RES-CHIP	47	5%	1/16W
R120	1-218-937-11	RES-CHIP	47	5%	1/16W
R121	1-218-937-11	RES-CHIP	47	5%	1/16W
R122	1-218-937-11	RES-CHIP	47	5%	1/16W
R123	1-218-937-11	RES-CHIP	47	5%	1/16W
R124	1-218-937-11	RES-CHIP	47	5%	1/16W
R125	1-218-937-11	RES-CHIP	47	5%	1/16W
R126	1-218-937-11	RES-CHIP	47	5%	1/16W
R127	1-218-937-11	RES-CHIP	47	5%	1/16W
	A-7078-883-A	DD-204 BOARD, COMPLETE ***** (C405 is not included in this completed board)			
		< CAPACITOR >			
C001	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C002	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C003	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C004	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C005	1-107-819-11	CERAMIC CHIP	0.022uF	10.00%	16V
C006	1-165-176-11	CERAMIC CHIP	0.047uF	10.00%	16V
C007	1-162-964-91	CERAMIC CHIP	0.001PF	10%	50V
C008	1-107-819-11	CERAMIC CHIP	0.022uF	10.00%	16V
C009	1-119-923-11	CERAMIC CHIP	0.047uF	10.00%	10V
C011	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C012	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C013	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C014	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C016	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C018	1-162-967-91	CERAMIC CHIP	0.0033uF	10%	50V
C019	1-162-969-91	CERAMIC CHIP	0.0068uF	10%	50V
C027	1-165-875-11	CERAMIC CHIP	10uF	10%	10V
C028	1-165-875-11	CERAMIC CHIP	10uF	10%	10V
C029	1-125-889-91	CERAMIC CHIP	2.2uF	10%	10V
C030	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C031	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C032	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C033	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C034	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C035	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C038	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V
C039	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V
C040	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V
C041	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V
C042	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V
C043	1-137-710-11	CERAMIC CHIP	10uF	20%	6.3V
C044	1-115-566-11	CERAMIC CHIP	4.7uF	10.00%	10V
C045	1-127-861-11	CERAMIC CHIP	2.2uF	10%	16V
C046	1-115-566-11	CERAMIC CHIP	4.7uF	10.00%	10V
C053	1-165-908-11	CERAMIC CHIP	1uF	10%	10V

Note :
Resistor is mounted to the location where D201 is printed.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
C058	1-165-908-11	CERAMIC CHIP 1uF 10% 10V	L006	1-456-136-21	INDUCTOR 10uH
C062	1-131-860-91	TANTAL. CHIP 4.7uF 20% 10V	L007	1-456-137-11	INDUCTOR 22uH
C065	1-135-993-11	TANTAL. CHIP 33uF 20% 10V	L010	1-414-392-41	INDUCTOR 1uH
C066	1-100-662-11	TANTAL. CHIP 47uF 20% 6.3V	L401	1-412-027-11	INDUCTOR 2.2uH
C067	1-119-751-11	TANTAL. CHIP 22uF 20.00% 16V			< LINE FILTER >
C068	1-119-751-11	TANTAL. CHIP 22uF 20.00% 16V	LF001	1-411-957-11	FILTER, COMMON MODE
C069	1-119-751-11	TANTAL. CHIP 22uF 20.00% 16V			< TRANSISTOR >
C070	1-119-751-11	TANTAL. CHIP 22uF 20.00% 16V	Q001	8-729-047-68	TRANSISTOR SSM3K03FE(TPL3)
C401	1-100-055-11	CERAMIC CHIP 22uF 20% 16V	Q002	8-729-051-49	TRANSISTOR HAT1054R-EL
C402	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V	Q003	8-729-804-41	TRANSISTOR 2SB1122-ST-TD-E
C404	1-164-227-11	CERAMIC CHIP 0.022uF 10% 25V	Q004	6-550-119-01	TRANSISTOR DTC144EMT2L
△C405	1-100-734-11	CAP, ELECT (FLASH) 250MF 315V	Q006	8-729-056-00	TRANSISTOR MCH3310-TL-E
C406	1-165-908-11	CERAMIC CHIP 1uF 10% 10V	Q007	8-729-053-76	TRANSISTOR CPH5802-TL-E
		< CONNECTOR >	Q008	8-729-053-76	TRANSISTOR CPH5802-TL-E
CN001	1-691-550-11	PIN, CONNECTOR (1.5MM)(SMD) 3P	Q009	8-729-053-76	TRANSISTOR CPH5802-TL-E
CN002	1-691-550-51	PIN, CONNECTOR (1.5MM)(SMD) 3P	Q010	8-729-053-76	TRANSISTOR CPH5802-TL-E
CN401	1-815-494-11	PIN, CONNECTOR 2P	Q011	8-729-053-76	TRANSISTOR CPH5802-TL-E
CN601	1-778-598-21	CONNECTOR, BOARD TO BOARD 60P	Q012	8-729-053-76	TRANSISTOR CPH5802-TL-E
CN602	1-766-336-21	CONNECTOR, FFC/FPC 6P	Q014	8-729-054-48	TRANSISTOR N1B04FE-Y/GR(TPLR3)
		< DIODE >	Q015	6-550-560-01	TRANSISTOR LS5U17LPTL
D001	8-719-421-67	DIODE MA132WK-(K8).SO	Q401	8-729-048-50	TRANSISTOR 2SK3018-T106
D002	8-719-075-15	DIODE MAZT082H08S0	Q402	8-729-426-31	TRANSISTOR XP1214-TXE
D003	8-719-158-49	DIODE MA8120-TX	Q407	6-550-308-01	TRANSISTOR CPH3205-SONY-TL-E
D004	8-719-027-76	DIODE 1SS357-TPH3			< RESISTOR >
D006	8-719-027-76	DIODE 1SS357-TPH3	R002	1-218-990-11	SHORT CHIP 0
D007	8-719-073-03	DIODE MA8082-(K8).SO	R005	1-218-985-11	RES-CHIP 470K 5% 1/16W
D010	8-719-081-19	DIODE 1SS383(T5RSONY1)	R008	1-218-969-11	RES-CHIP 22K 5% 1/16W
D011	8-719-081-19	DIODE 1SS383(T5RSONY1)	R009	1-218-961-11	RES-CHIP 4.7K 5% 1/16W
D401	8-719-073-01	DIODE MA111-(K8).SO	R011	1-218-990-11	SHORT CHIP 0
△D402	6-500-237-01	DIODE HAU160C030TP	R012	1-218-971-11	RES-CHIP 33K 5% 1/16W
D403	8-719-048-98	DIODE RB160L-40TE25	R013	1-218-961-11	RES-CHIP 4.7K 5% 1/16W
		< FUSE >	R014	1-218-985-11	RES-CHIP 470K 5% 1/16W
△F001	1-576-406-21	FUSE 1.4A/32V	R016	1-218-989-11	RES-CHIP 1M 5% 1/16W
△F002	1-576-406-21	FUSE 1.4A/32V	R017	1-208-707-11	METAL CHIP 10K 0.5% 1/16W
△F003	1-576-406-21	FUSE 1.4A/32V	R018	1-208-930-11	METAL CHIP 62K 0.5% 1/16W
△F004	1-576-406-21	FUSE 1.4A/32V	R019	1-216-150-91	RES-CHIP 10 5% 1/8W
△F005	1-576-406-21	FUSE 1.4A/32V	R020	1-218-975-11	RES-CHIP 68K 5% 1/16W
△F006	1-576-406-21	FUSE 1.4A/32V	R022	1-218-953-11	RES-CHIP 1K 5% 1/16W
		< FERRITE BEAD >	R023	1-218-963-11	RES-CHIP 6.8K 5% 1/16W
FB001	1-414-228-11	FERRITE 0uH	R024	1-218-969-11	RES-CHIP 22K 5% 1/16W
		< IC >	R025	1-218-969-81	RES-CHIP 22K 5% 1/16W
IC001	6-703-429-01	IC MB44A120APFV-G-BND-ERE1	R028	1-218-975-11	RES-CHIP 68K 5% 1/16W
IC004	6-704-874-01	IC XC62KS0PXXMR	R029	1-208-711-11	METAL CHIP 15K 0.5% 1/16W
		< COIL >	R030	1-218-849-11	METAL CHIP 1.2K 0.5% 1/16W
L001	1-419-881-11	INDUCTOR 47uH	R031	1-218-969-11	RES-CHIP 22K 5% 1/16W
L002	1-456-137-11	INDUCTOR 22uH	R032	1-208-709-11	METAL CHIP 12K 0.5% 1/16W
L003	1-424-846-11	INDUCTOR 0uH	R033	1-218-975-11	RES-CHIP 68K 5% 1/16W
L004	1-456-137-11	INDUCTOR 22uH	R034	1-218-978-11	METAL CHIP 120K 0.5% 1/16W
L005	1-456-137-11	INDUCTOR 22uH	R035	1-208-713-11	METAL CHIP 18K 0.5% 1/16W
			R036	1-218-977-11	RES-CHIP 100K 5% 1/16W
			R039	1-216-789-11	METAL CHIP 2.2 5% 1/16W
			R040	1-218-949-11	RES-CHIP 470 5% 1/16W
			R041	1-208-707-11	METAL CHIP 10K 0.5% 1/16W
			R042	1-208-927-11	METAL CHIP 47K 0.5% 1/16W

Note :

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

Note :

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

DSC-F828

DD-204 **FP-748** **LB-091** **LR-018** **LS-067** **MT-067** **SI-037** **ST-088**

Ref. No.	Part No.	Description
R043	1-218-965-11	RES-CHIP 10K 5% 1/16W
R044	1-218-977-11	RES-CHIP 100K 5% 1/16W
R048	1-208-707-11	METAL CHIP 10K 0.5% 1/16W
R049	1-208-707-11	METAL CHIP 10K 0.5% 1/16W
R401	1-218-965-11	RES-CHIP 10K 5% 1/16W
R402	1-218-973-11	RES-CHIP 47K 5% 1/16W
R403	1-218-967-11	RES-CHIP 15K 5% 1/16W
R404	1-218-942-11	RES-CHIP 120 5% 1/16W
R405	1-218-973-11	RES-CHIP 47K 5% 1/16W
< TRANSFORMER >		
△ T401	1-443-157-21	TRANSFORMER, D.C.-D.C. CONVERT
A-7078-881-A	FP-748 BOARD, COMPLETE	*****
< CONNECTOR >		
CN001	1-778-598-21	CONNECTOR, BOARD TO BOARD 60P
CN002	1-778-593-21	CONNECTOR, BOARD TO BOARD 60P
A-7078-887-A	LB-091 BOARD, COMPLETE	*****
CN001	1-817-550-11	CONNECTOR, FPC 18P
< DIODE >		
D001	6-500-375-01	DIODE NSCW455T-TC9 (BACKLIGHT)
A-7078-880-A	LR-018 BOARD, COMPLETE	*****
< BATTERY >		
△ BT001	1-756-191-31	BATTERY, LITHIUM (SECONDARY)
< SWITCH >		
S001	1-692-088-11	SWITCH, TACTILE (RESET)
A-7078-891-A	LS-067 BOARD, COMPLETE	*****
(D001 is not included in this completed board)		
< DIODE >		
△ D001	1-805-470-51	LASER UNIT (Note1)
D002	8-719-073-03	DIODE MA8082-(K8).S0
D003	8-719-073-03	DIODE MA8082-(K8).S0
D004	8-719-064-07	DIODE SML-310LTT86 (Self-timer)
< SWITCH >		
S001	1-786-180-31	SWITCH, PUSH (1KEY) (FLASH OPEN DETECT)
A-7078-890-A	MT-067 BOARD, COMPLETE	*****
< CONNECTOR >		
CN001	1-794-767-31	CONNECTOR, FPC 10P

Ref. No.	Part No.	Description
< SWITCH >		
S001	1-786-179-31	SWITCH, PUSH (1KEY) (MOTOR POSITION DETECT)
△	A-7078-889-A	SI-037 BOARD, COMPLETE *****
< DIODE >		
D001	6-500-512-01	DIODE CL-330IRS-X-TU (Infrared ray emitter)
< COIL >		
L001	1-456-193-11	COIL, TRIGGER
A-7078-884-A	ST-088 BOARD, COMPLETE	*****
< CAPACITOR >		
C501	1-164-943-11	CERAMIC CHIP 0.01uF 10.00% 16V
C502	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C503	1-137-723-21	CERAMIC CHIP 0.047uF 10% 250V
C504	1-100-761-21	CERAMIC CHIP 0.01uF 10% 250V
C505	1-165-875-11	CERAMIC CHIP 10uF 10% 10V
C506	1-164-949-11	CERAMIC CHIP 0.047uF 16V
< CONNECTOR >		
CN501	1-766-352-21	CONNECTOR, FFC/FPC 22P
CN502	1-815-494-11	PIN, CONNECTOR 2P
CN503	1-778-164-21	CONNECTOR, FFC/FPC (ZIF) 16P
CN504	1-779-327-11	CONNECTOR, FFC/FPC 6P
CN505	1-779-337-11	CONNECTOR, FFC/FPC 26P
< DIODE >		
D502	8-719-075-15	DIODE MAZT082H08S0
D503	8-719-073-03	DIODE MA8082-(K8).S0
D504	8-719-123-76	THYRISTOR 03P4J-T1
D506	8-749-017-19	DIODE 02DZ10-TPH3
D507	6-500-811-01	DIODE RR255L-400TE25
D508	8-719-027-76	DIODE 1SS357-TPH3
< FERRITE BEAD >		
FB501	1-469-179-21	FERRITE 0uH
FB502	1-469-179-21	FERRITE 0uH
FB503	1-469-179-21	FERRITE 0uH
FB504	1-469-179-21	FERRITE 0uH
FB505	1-469-179-21	FERRITE 0uH
< IC >		
IC502	8-729-053-74	TRANSISTOR CY25AAJ-8-T13

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

Note1 :
 Adjustment is needed when laser unit is replaced.

Note2 :
 The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Note2 :
 Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ST-088

SW-410

SY-096

Ref. No.	Part No.	Description
< TRANSISTOR >		
Q501	6-550-237-01	TRANSISTOR 2SC5658T2LQ/R
Q502	8-729-042-58	TRANSISTOR UN9111J-(K8).SO
Q503	8-729-053-57	TRANSISTOR RN1902FE(TPLR3)
Q504	8-729-037-52	TRANSISTOR 2SD2216J-QR(K8).SO
< RESISTOR >		
R503	1-218-953-11	RES-CHIP 1K 5% 1/16W
R505	1-218-937-11	RES-CHIP 47 5% 1/16W
R506	1-218-989-11	RES-CHIP 1M 5% 1/16W
R507	1-216-121-11	RES-CHIP 1M 5% 1/10W
R508	1-218-949-11	RES-CHIP 470 5% 1/16W
R509	1-220-254-11	RES-CHIP 56 5% 1/4W
R510	1-220-254-11	RES-CHIP 56 5% 1/4W
R511	1-216-097-11	RES-CHIP 100K 5% 1/10W
R512	1-216-864-11	METAL CHIP 0 5% 1/16W
R513	1-218-943-11	RES-CHIP 150 5% 1/16W
R514	1-218-965-11	RES-CHIP 10K 5% 1/16W

A-7078-878-A SW-410 BOARD, COMPLETE

< CONNECTOR >

CN001 1-817-548-11 CONNECTOR, FPC 6P

< RESISTOR >

R001	1-216-822-11	METAL CHIP 1.2K 5% 1/16W
R002	1-216-827-11	METAL CHIP 3.3K 5% 1/16W
R003	1-216-837-11	METAL CHIP 22K 5% 1/16W
R004	1-216-823-11	METAL CHIP 1.5K 5% 1/16W
R005	1-218-867-11	METAL CHIP 6.8K 5% 1/10W

< SWITCH >

S001	1-786-179-11	SWITCH, PUSH (1KEY) (OPEN(FLASH))
S002	1-771-138-82	SWITCH, KEY BOARD (FLASH)
S003	1-771-138-82	SWITCH, KEY BOARD (MACRO)
S004	1-786-179-11	SWITCH, PUSH (1KEY) (FOCUS (AUTO/MANUAL))
S005	1-771-138-82	SWITCH, KEY BOARD (METERING MODE)
S006	1-771-138-82	SWITCH, KEY BOARD (BURST/BACKET)
S007	1-771-138-82	SWITCH, KEY BOARD (NIGHT SHOT/NIGHT FRAMING)

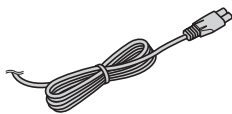
Ref. No.	Part No.	Description
SY-096 BOARD, COMPLETE (SERVICE) *****		

**Electrical parts list of the SY-096 board is not shown.
Pages from 5-14 to 5-18 are not shown.**

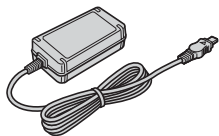
Ref. No.	Part No.	Description			
	A-7078-888-A	UA-003 BOARD, COMPLETE	*****		
		< CONNECTOR >			
CN001	1-794-962-11	CONNECTOR, SQUARE TYPE(USB 5P)			
		< DIODE >			
D001	8-719-075-15	DIODE MAZT082H08S0			
D002	8-719-073-03	DIODE MA8082-(K8).S0			
D003	8-719-075-15	DIODE MAZT082H08S0			
D004	8-719-073-01	DIODE MA111-(K8).S0			
		< FERRITE BEAD >			
FB001	1-500-444-11	FERRITE	0uH		
		< JACK >			
J001	1-569-950-31	JACK (SMALL TYPE) (AUDIO/VIDEO)			
		< LINE FILTER >			
LF001	1-456-583-11	INDUCTOR	0uH		
		< RESISTOR >			
R001	1-216-295-91	SHORT CHIP	0		
R002	1-216-295-91	SHORT CHIP	0		
R003	1-216-821-11	METAL CHIP	1K	5%	1/16W
R004	1-216-295-91	SHORT CHIP	0		
R005	1-216-295-91	SHORT CHIP	0		
R006	1-216-864-11	METAL CHIP	0	5%	1/16W

Checking supplied accessories.

Make sure that the following accessories are supplied with your digital still camera.



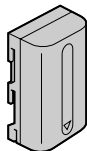
Power cord (Main lead) (1)
(AEP, E model)
△ 1-769-608-11
Power cord (Main lead) (1)
(AUS model)
△ 1-696-819-11
Power cord (Main lead) (1)
(UK, HK model)
△ 1-783-374-11
Power cord (Main lead) (1)
(US, CND model)
△ 1-790-107-22
Power cord (Main lead) (1)
(JE, J model)
△ 1-790-732-12
Power cord (Main lead) (1)
(KR model)
△ 1-776-985-11
Power cord (Main lead) (1)
(CH model)
△ 1-782-476-13



AC adaptor (1) (AC-L15A)
△ 1-477-533-51



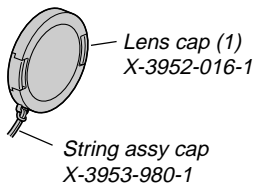
A/V connecting cable (1)
1-824-111-11



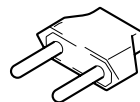
NP-FM50 battery pack (1)
(not supplied)



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



Lens cap (1)
X-3952-016-1
String assy cap
X-3953-980-1



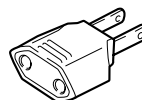
2-pin conversion adaptor (1)
(JE model)
1-569-007-12



CD-ROM
(SPVD-013 I) USB Driver (1)
(US, CND, J model)
3-087-331-01
CD-ROM
(SPVD-013 USB Driver) (1)
(AEP, UK, E, HK, JE, KR, AUS,
CH model)
3-087-330-01



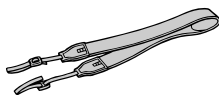
Lens hood (1)
3-086-481-01



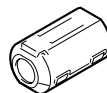
2-pin conversion adaptor (1)
(E model)
1-569-008-12



CD-ROM
(Image Data Converter) (1)
3-087-661-01



S-shoulder strap (1)
3-071-638-11



Clamp filter (Ferrite core) (for AC-L15A)
1-543-798-21

Other accessories

- 3-084-996-01 MANUAL, INSTRUCTION (JAPANESE)(J)
- 3-084-996-11 MANUAL, INSTRUCTION(ENGLISH)
(US,CND,AEP,UK,E,AUS,CH,JE,HK)
- 3-084-996-21 MANUAL, INSTRUCTION (FRENCH/GERMAN)(CND,AEP)
- 3-084-996-31 MANUAL, INSTRUCTION (SPANISH/PORTUGUESE)
(AEP,E,JE)
- 3-084-996-41 MANUAL, INSTRUCTION (ITALIAN/DUTCH)(AEP)
- 3-084-996-51 MANUAL, INSTRUCTION (TRADITIONALCHINESE)
(E,CH,JE,HK)
- 3-084-996-61 MANUAL, INSTRUCTION (RUSSIAN/SWEDISH)(AEP)
- 3-084-996-71 MANUAL, INSTRUCTION (ARABIC)(E)
- 3-084-996-81 MANUAL, INSTRUCTION (KOREAN)(JE,KR)
- 3-084-997-01 MANUAL, INSTRUCTION (JAPANESE)(J)

- 3-087-904-01 MANUAL INSTRUCTION, RAW (JAPANESE)(J)
- 3-087-904-11 MANUAL INSTRUCTION, RAW
(ENGLISH/FRENCH/GERMAN/SPANISH/ITALIAN/DUTCH/
PORTUGUESE/TRADITIONAL CHINESE/
SIMPLIFIED CHINESE)(EXCEPT J)

- Abbreviation
- CND : Canadian model
- AUS : Australian model
- CH : Chinese model
- HK : Hong Kong model
- KR : Korea model
- JE : Tourist model
- J : Japanese model


<p>Note : The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.</p>	<p>Note : 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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[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:

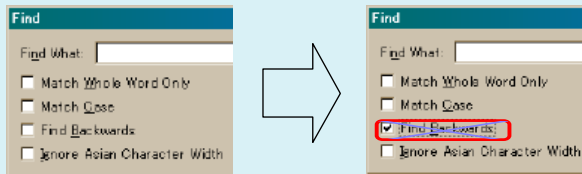
This function allows you to go and back between circuit diagram and printed circuit board diagram, and accordingly it will be convenient for the voltage check.

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 Backwards" and then click the "Find".








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

Application to the Service Manual:


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


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

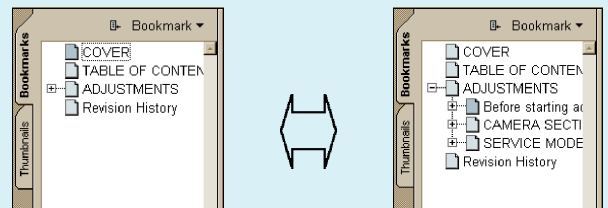
Moving with link

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

Moving with bookmark:



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

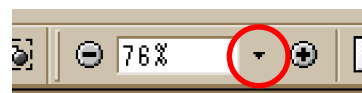
(To go back to original state, click )




Zooming or rotating the screen display

"Zoom in/out"

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







"Rotate"

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

Application to the Service Manual:

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

Switching a page

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

Revision History

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