

DCR-VX2100/VX2100E

RMT-811

SERVICE MANUAL

LEVEL 2

Ver. 1.4 2008. 10

Revision History

How to use
Acrobat Reader

Revised-1

Replace the previously issued
SERVICE MANUAL 9-876-288-31, 9-876-288-81
and 9-876-288-82 with this Manual.



Photo : DCR-VX2100

US Model
Canadian Model
Korea Model
DCR-VX2100
AEP Model
UK Model
Australian Model
Chinese Model
DCR-VX2100E
E Model
Hong Kong Model
Tourist Model
DCR-VX2100/VX2100E

C MECHANISM

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 (987628851.pdf).
- For INSTRUCTION MANUAL, refer to SERVICE MANUAL, LEVEL 1 (987628841.pdf).
- For MECHANISM ADJUSTMENTS, refer to the "DV MECHANICAL ADJUSTMENT MANUAL IV **C MECHANISM**" (9-974-050-11).
- Reference No. search on printed wiring boards is available.

On the VC-358 board

This service manual provides the information that is premised the circuit board replacement service and not intended repair inside the VC-358 board.

Therefore, schematic diagram, printed wiring board, mounted parts location and electrical parts list of the FP-594 and VC-358 board are not shown.

The following pages are not shown.

Schematic diagram	Pages 4-43 to 4-78	Mounted parts location	Pages 4-127 to 4-128
Printed wiring board	Pages 4-113 to 4-118	Electrical parts list	Pages 5-27 to 5-35
Waveforms	Page 4-121 to 4-123		

Mini DV Digital
Video
Cassette

DIGITAL VIDEO CAMERA RECORDER

SONY®



HANDYCAM

Cassette
Memory

InfoLITHIUM™



MEMORY STICK

SPECIFICATIONS

Video camera recorder

System

Video recording system

2 rotary heads

Helical scanning system

Audio recording system

Rotary heads, PCM system

Quantization: 12 bits (Fs 32 kHz, stereo 1, stereo 2), 16 bits (Fs 48 kHz, stereo)

Video signal

DCR-VX2100:

NTSC color, EIA standards

DCR-VX2100E:

PAL color, CCIR standards

Usable cassette

Mini DV cassette with the mark printed

Tape speed

SP: Approx. 18.81 mm/s

LP: Approx. 12.56 mm/s

Recording/playback time (using cassette DVM60)

SP: 1 h

LP: 1.5 h

Fast-forward/rewind time (using cassette DVM60)

Approx. 2 min and 30 s

Viewfinder

Electric viewfinder (color)

Image device

1/3 type CCD (3 Charge Coupled Device)

Approx. 380 000 pixels

(Effective: Approx. 340 000 pixels)

Lens

Combined power zoom lens

Filter diameter 58 mm (2 3/8 in)

12· (Optical), 48· (Digital)

F1.6 - 2.4

Focal length

6 - 72 mm (1/4 - 2 7/8 in)

When converted to a 35 mm still camera

43.2 - 518.4 mm (1 3/4 - 20 1/2 in)

Color temperature

Auto, Indoor (3 200 K),

Outdoor (5 800 K),

Minimum illumination

1 lux (F1.6)

Input/Output connectors

S video input/output

Input/output auto switch

4-pin mini DIN

Luminance signal: 1 Vp-p,

75 ohms, unbalanced

Chrominance signal:

DCR-VX2100: 0.286Vp-p

DCR-VX2100E: 0.3Vp-p

75 ohms, unbalanced

Video input/output

Input/output auto switch

RCA pin-jack, 1 Vp-p, 75 ohms,

unbalanced

Audio input/output

Input/output auto switch

RCA pin-jack, 327 mV, (at output

impedance more than 47 kilohms)

Output impedance with less than

2.2 kilohms

Input impedance more than

47 kilohms

Headphones jack

Stereo minijack (ø 3.5 mm)

LANC control jack

Stereo mini-minijack (ø 2.5 mm)

MIC jack

Minijack, 0.388 mV low imped-

ance with 2.5 to 3.0 V DC, output

impedance 6.8 kilohms (ø 3.5 mm)

Stereo type

DV Interface

4-pin connector

Speaker

Dynamic speaker (ø 20 mm)

LCD screen

Picture

6.2cm (2.5 type)

Total dot number

211 000 (960 · 220)

General

Power requirements

7.2 V (battery pack)

8.4 V (AC Adaptor)

Average power consumption

(when using the battery pack)

During camera recording using

LCD

4.7 W

Viewfinder

4.0 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.)

120 × 159 × 393 mm (4 3/4 × 6 3/8

× 15 1/2 in) (w / h / d)

Mass (approx.)

1.5 kg (3 lb 6 oz) including the

hood with a lens cap

1.6 kg (3 lb 9 oz)

including the rechargeable battery

pack, NP-F330 and cassette

DVM60

Supplied accessories

See page 5-37.

AC Adaptor
AC-L15A/L15B

Power requirements

100 - 240 V AC, 50/60 Hz

Current consumption

0.35 - 0.18 A

Power consumption

18 W

Output voltage

DC OUT: 8.4 V, 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.)

56 × 31 × 100 mm

(2 1/4 × 1 1/4 × 4 in) (w / h / d)

excluding projecting parts

Mass (approx.)

190 g (6.7 oz)

excluding power cord

Rechargeable
battery pack
NP-F330

Output voltage

DC 7.2 V

Capacity

5.0 Wh

Dimensions (approx.)

38.4 × 20.6 × 70.8 mm (1 9/16 ×

13/16 × 2 7/8 in) (w / h / d)

Mass (approx.)

70 g (2.5 oz)

Type

Lithium ion

Design and specifications are
subject to change without notice.

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.

CAUTION :

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

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 FP-594 and VC-358 board are not shown.
Pages from 4-43 to 4-78 are not shown.

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PRINTED WIRING BOARD 4-111

Printed wiring boards of the FP-594 and VC-358 board are not shown.
Pages from 4-113 to 4-118 are not shown.

4-4. WAVEFORMS 4-119

Waveforms of the VC-358 board are not shown.
Pages 4-121 to 4-123 are not shown.

4-5. MOUNTED PARTS LOCATION 4-124

Mounted parts locations of the VC-358 board are not shown.
Page 4-127 to 4-128 are not shown.

5. REPAIR PARTS LIST

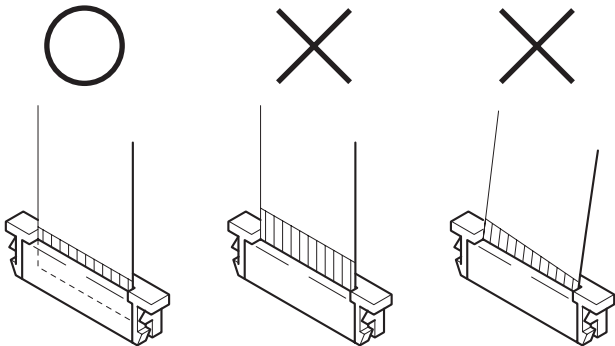
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Parts list of the VC-358 board is not shown.
Pages from 5-27 to 5-35 are not shown.

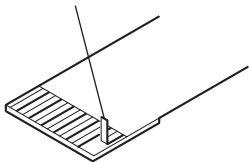
SECTION 1
SERVICE NOTE

1-1. NOTE FOR REPAIR

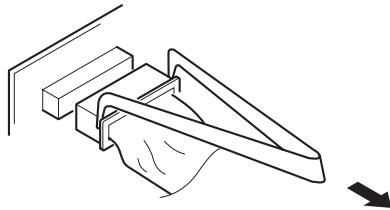
Make sure that the flat cable and flexible board are not cracked or bent at the terminal.
Do not insert the cable insufficiently nor crookedly.



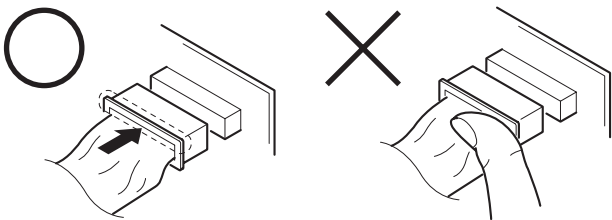
Cut and remove the part of gilt which comes off at the point.
(Take care that there are some pieces of gilt left inside)



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. SERVICE NOTE

1. POWER SUPPLY DURING REPAIRS

In this unit, about 10 seconds after power is supplied to the battery terminal using the regulated power supply (8.4V), the power is shut off so that the unit cannot operate.

These following two methods are available to prevent this. Take note of which to use during repairs.

Method 1.

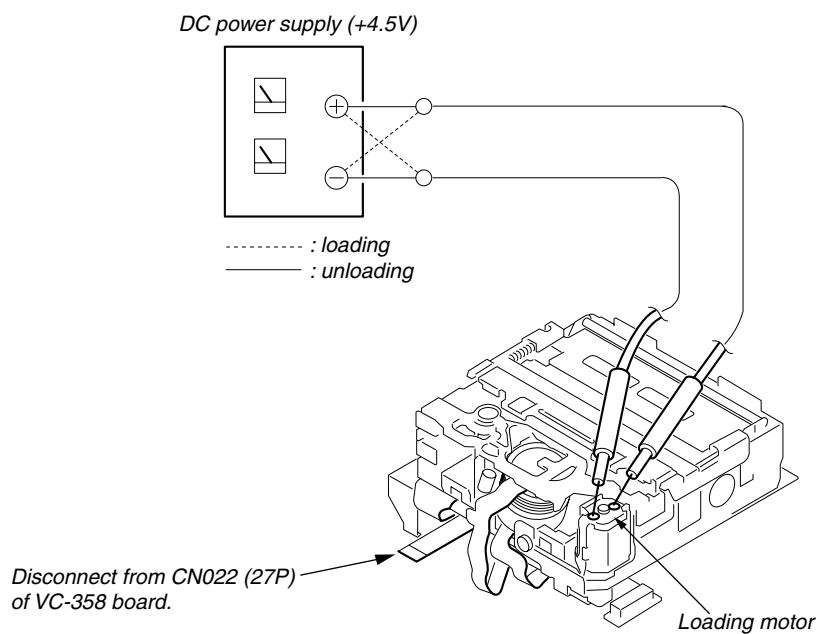
Connect the servicing remote commander RM-95 (J-6082-053-B) to the LANC jack, and set the commander switch to the “ADJ” side.

Method 2.

Use the DC IN terminal. (Use the AC power adaptor. (AC-L10, AC-VQ800 etc.))

2. TO TAKE OUT A CASSETTE WHEN NOT EJECT (FORCE EJECT)

- ① Refer to page 2-3 to remove the upper handle block assembly.
- ② Refer to page 2-6 to remove the cabinet (L) assembly.
- ③ Refer to page 2-6 to remove the mechanism deck (Including VC-358 board and DD-216 board).
- ④ Remove DD-216 board from the mechanism deck (Including VC-358 board).
- ⑤ Remove the CN022 (27P 0.3 mm) of VC-358 board.
- ⑥ Supply +4.5V from the DC power supply to the loading motor and unload with a pressing the cassette compartment.



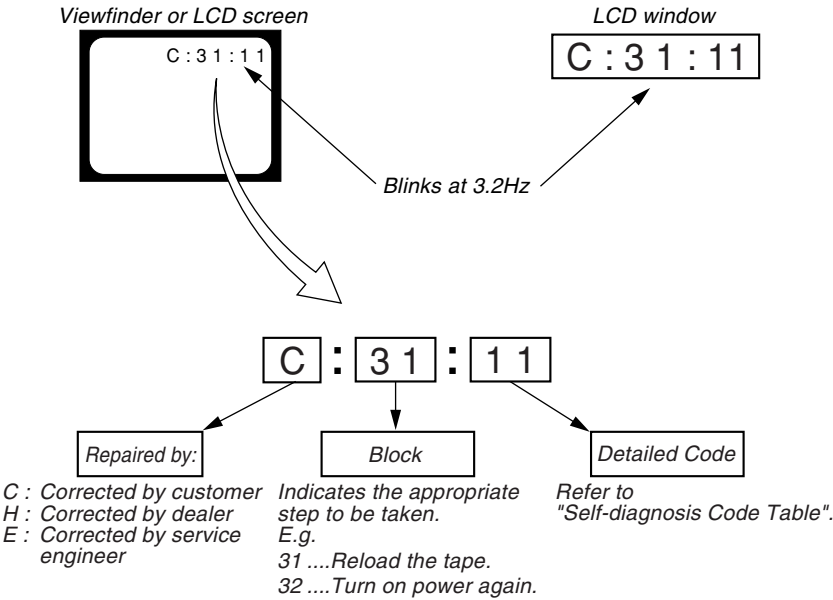
1-3. SELF-DIAGNOSIS FUNCTION

1. SELF-DIAGNOSIS FUNCTION

When problems occur while the unit is operating, the self-diagnosis function starts working, and displays on the viewfinder, LCD screen or LCD window what to do. This function consists of two display; self-diagnosis display and service mode display. Details of the self-diagnosis functions are provided in the Instruction manual.

2. SELF-DIAGNOSIS DISPLAY

When problems occur while the unit is operating, the counter of the viewfinder, LCD screen or LCD window consists of an alphabet and 4-digit numbers, which blinks at 3.2 Hz. This 5-character display indicates the “repaired by:”, “block” in which the problem occurred, and “detailed code” of the problem.



Note: The “self-diagnosis display” data will be backed up by the coin-type lithium battery of ZM-030 board BT801, 802. When the (upper) handle block is removed, the “self-diagnosis display” data will be lost by initialization.

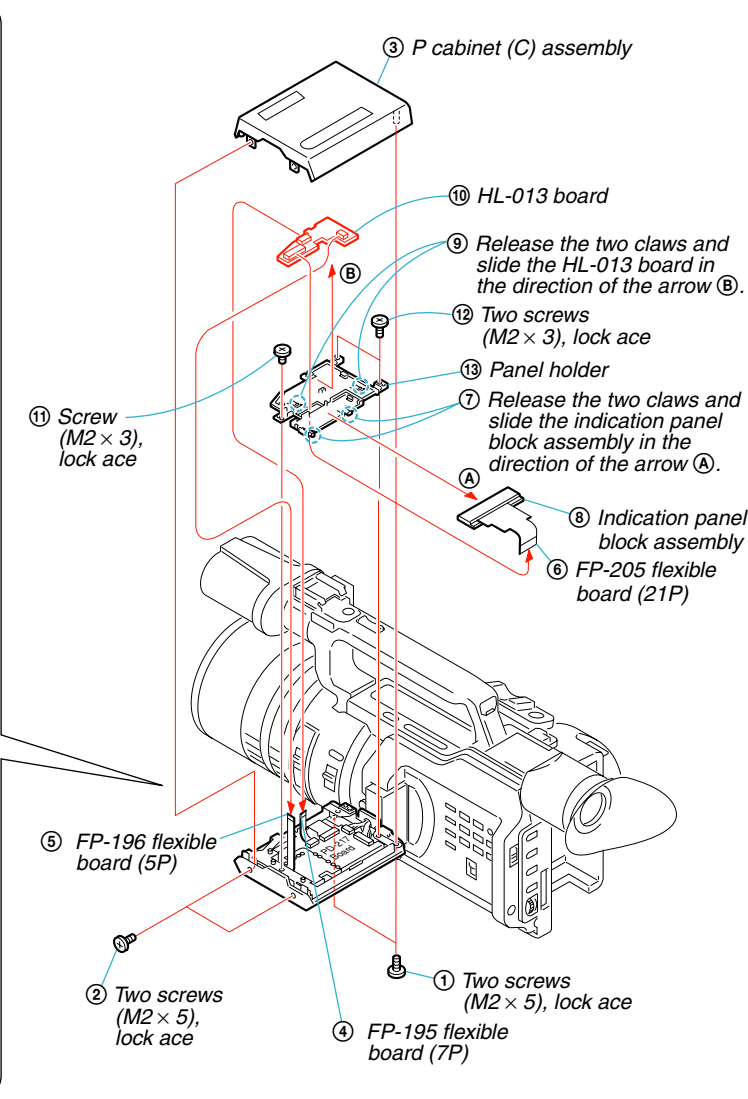
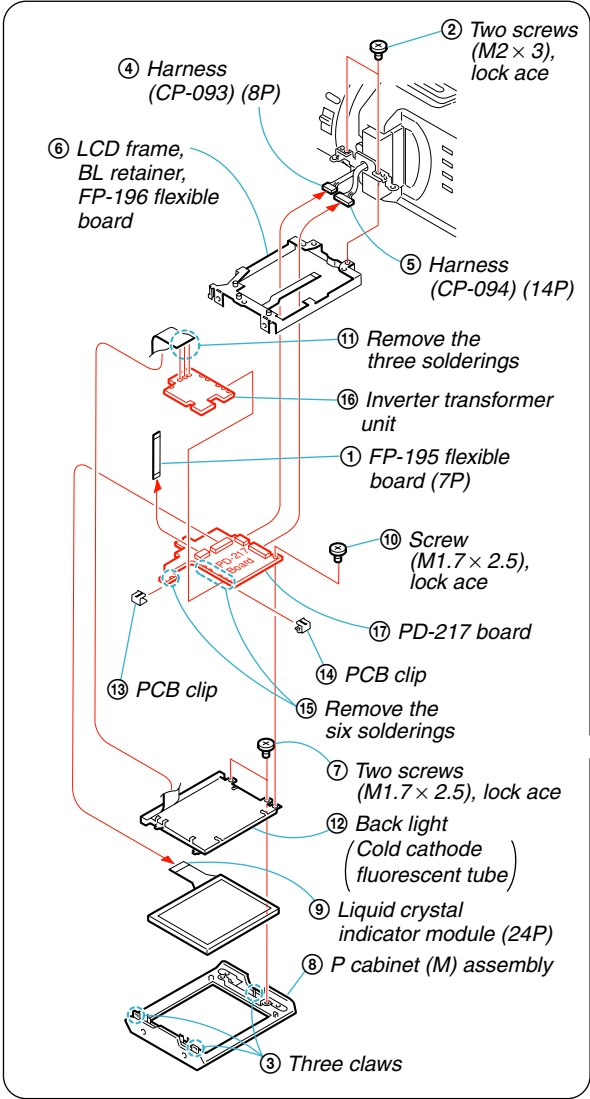
3. SELF-DIAGNOSIS CODE TABLE

Repaired by:	Self-diagnosis Code		Symptom/State	Correction
	Block Function	Detailed Code		
C	0 4	0 0	Non-standard battery is used.	Use the info LITHIUM battery.
C	2 1	0 0	Condensation.	Remove the cassette, and insert it again after one hour.
C	2 2	0 0	Video head is dirty.	Clean with the optional cleaning cassette.
C	3 1	1 0	LOAD direction. Loading does not complete within specified time	Load the tape again, and perform operations from the beginning.
C	3 1	1 1	UNLOAD direction. Loading does not complete within specified time	Load the tape again, and perform operations from the beginning.
C	3 1	2 0	T reel side tape slacking when unloading.	Load the tape again, and perform operations from the beginning.
C	3 1	2 1	Winding S reel fault when counting the rest of tape.	Load the tape again, and perform operations from the beginning.
C	3 1	2 2	T reel fault.	Load the tape again, and perform operations from the beginning.
C	3 1	2 3	S reel fault.	Load the tape again, and perform operations from the beginning.
C	3 1	2 4	T reel fault.	Load the tape again, and perform operations from the beginning.
C	3 1	3 0	FG fault when starting capstan.	Load the tape again, and perform operations from the beginning.
C	3 1	4 0	FG fault when starting drum.	Load the tape again, and perform operations from the beginning.
C	3 1	4 2	FG fault during normal drum operations.	Load the tape again, and perform operations from the beginning.
C	3 2	1 0	LOAD direction loading motor time-out.	Remove the battery or power cable, connect, and perform operations from the beginning.
C	3 2	1 1	UNLOAD direction loading motor time-out.	Remove the battery or power cable, connect, and perform operations from the beginning.
C	3 2	2 0	T reel side tape slacking when unloading.	Remove the battery or power cable, connect, and perform operations from the beginning.
C	3 2	2 1	Winding S reel fault when counting the rest of tape.	Remove the battery or power cable, connect, and perform operations from the beginning.
C	3 2	2 2	T reel fault.	Remove the battery or power cable, connect, and perform operations from the beginning.
C	3 2	2 3	S reel fault.	Remove the battery or power cable, connect, and perform operations from the beginning.
C	3 2	2 4	T reel fault.	Remove the battery or power cable, connect, and perform operations from the beginning.
C	3 2	3 0	FG fault when starting capstan.	Remove the battery or power cable, connect, and perform operations from the beginning.
C	3 2	4 0	FG fault when starting drum	Remove the battery or power cable, connect, and perform operations from the beginning.
C	3 2	4 2	FG fault during normal drum operations	Remove the battery or power cable, connect, and perform operations from the beginning.
E	6 1	0 0	Difficult to adjust focus (Cannot initialize focus.)	Inspect the lens block focus reset sensor (Pin ②⑤ of LA-028 board) when focusing is performed when the focus ring is rotated in the focus manual mode, and the focus motor drive circuit (IC140 of LA-028 board) when the focusing is not performed.
E	6 1	1 0	Zoom operations fault (Cannot initialize zoom lens.)	Inspect the lens block zoom reset sensor (Pin ②⑥ of LA-028 board) when zooming is performed when the zoom lens is operated and the zoom motor drive circuit (IC140 of LA-028 board) when zooming is not performed.
E	6 2	0 0	Steadyshot function does not work well. (With pitch angular velocity sensor output stopped.)	Inspect pitch angular velocity sensor (SE601 of SE-147 board) peripheral circuits.
E	6 2	0 1	Steadyshot function does not work well. (With yaw angular velocity sensor output stopped.)	Inspect yaw angular velocity sensor (SE600 of SE-147 board) peripheral circuits.

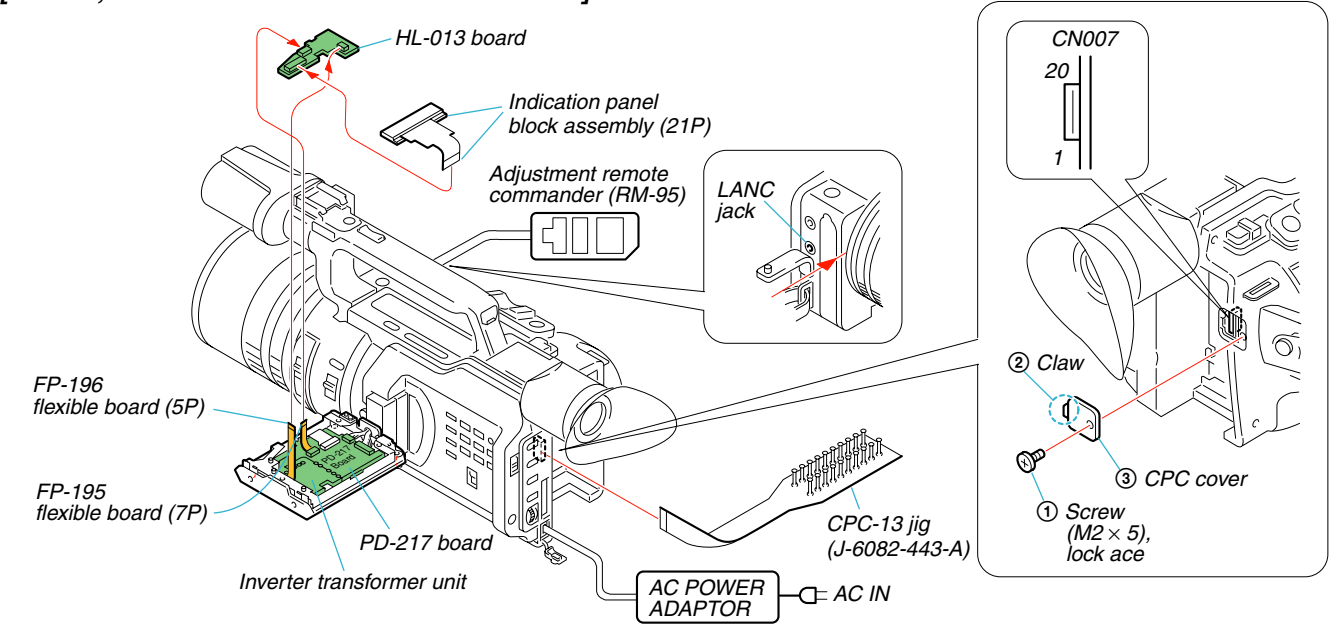
NOTE: Follow the disassembly procedure in the numerical order given.

2-1. LCD SECTION (HL-013, PD-217 BOARDS, INVERTER TRANSFORMER UNIT)

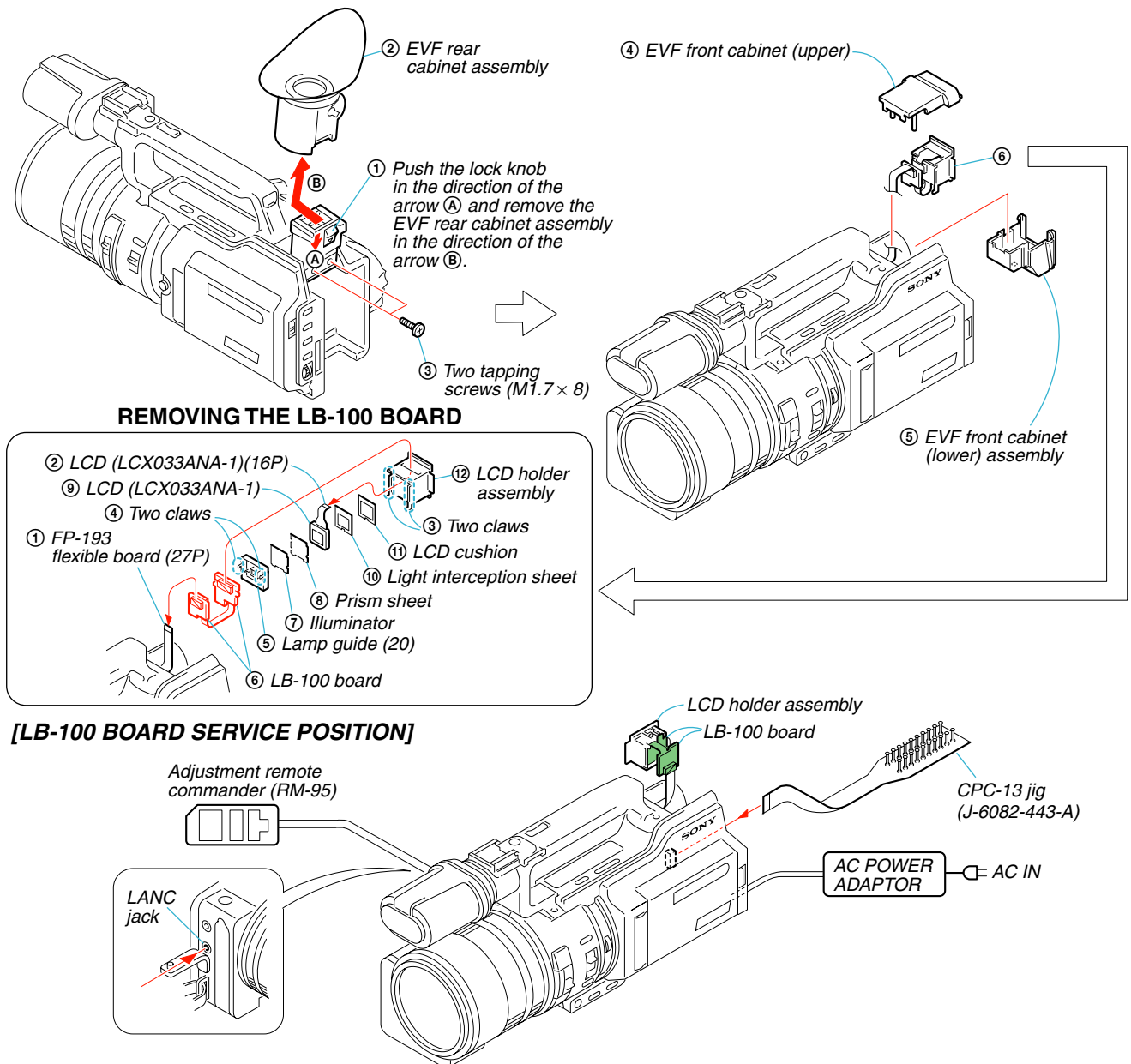
REMOVING THE PD-217 BOARD,
INVERTER TRANSFORMER UNIT



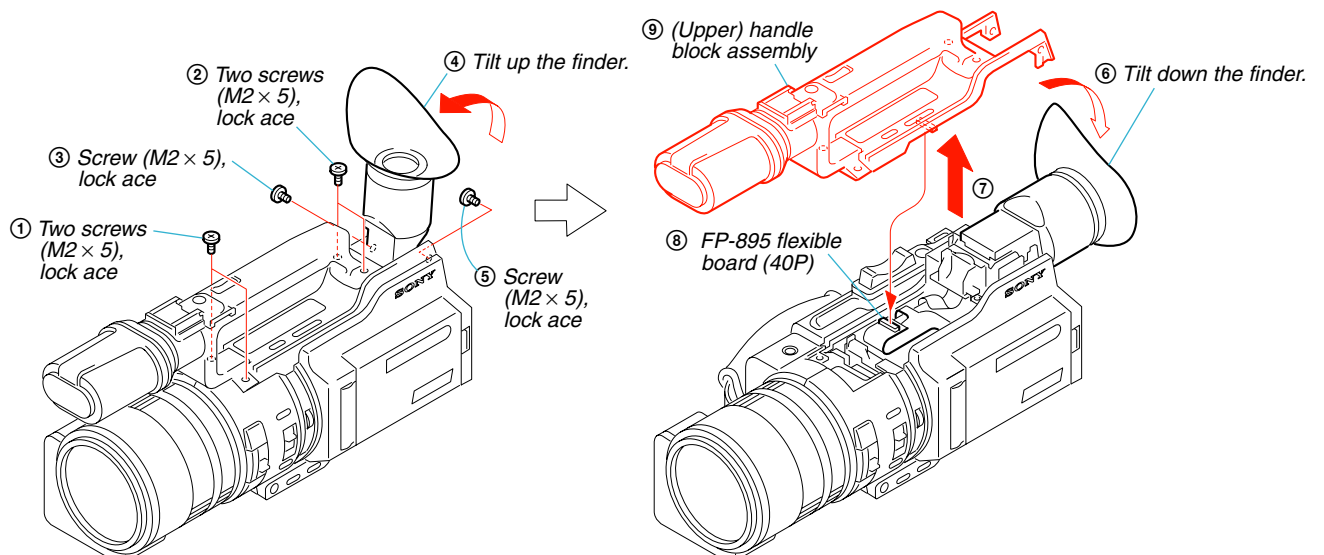
[HL-013, PD-217 BOARDS SERVICE POSITION]



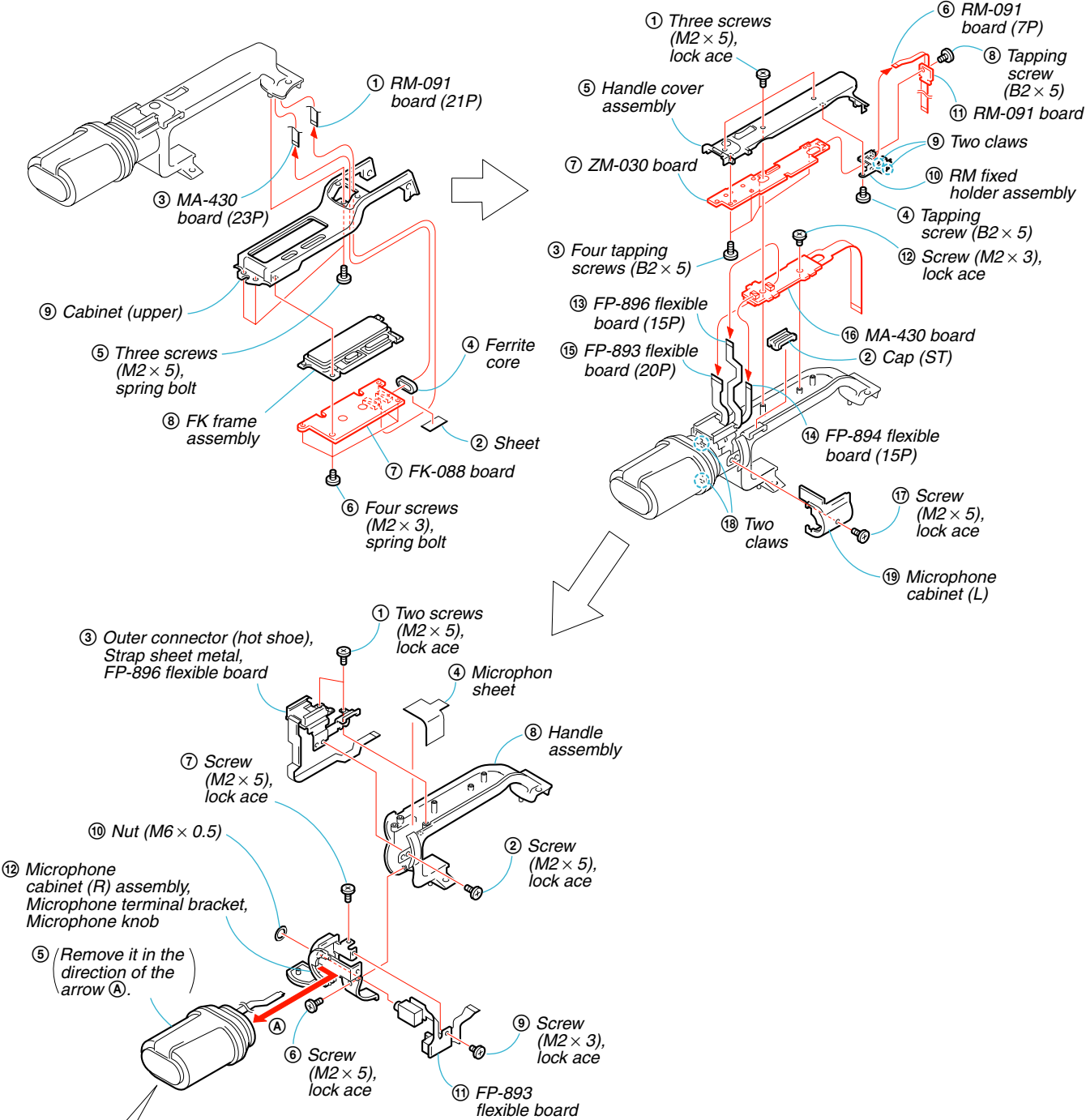
2-2. EVF SECTION (LB-100 BOARD)



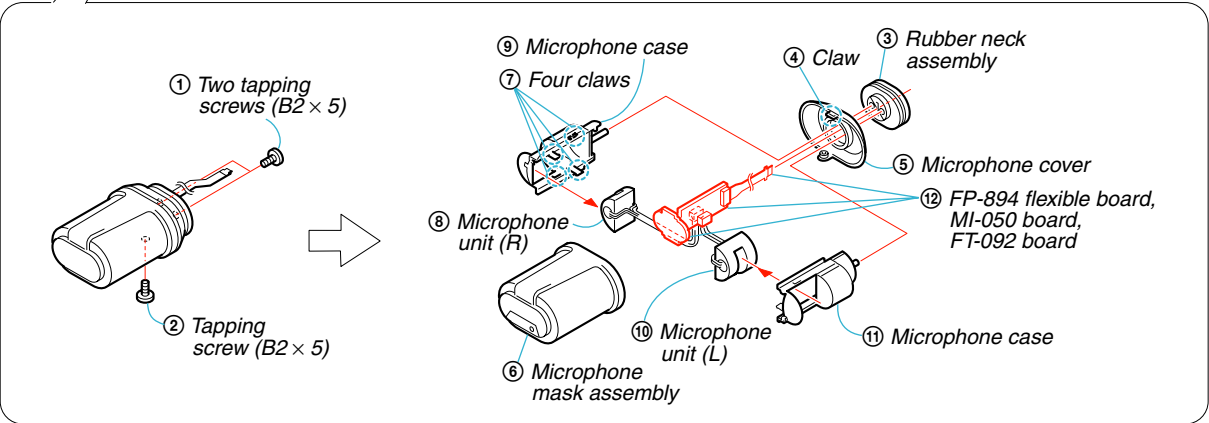
2-3. (UPPER) HANDLE BLOCK ASSEMBLY

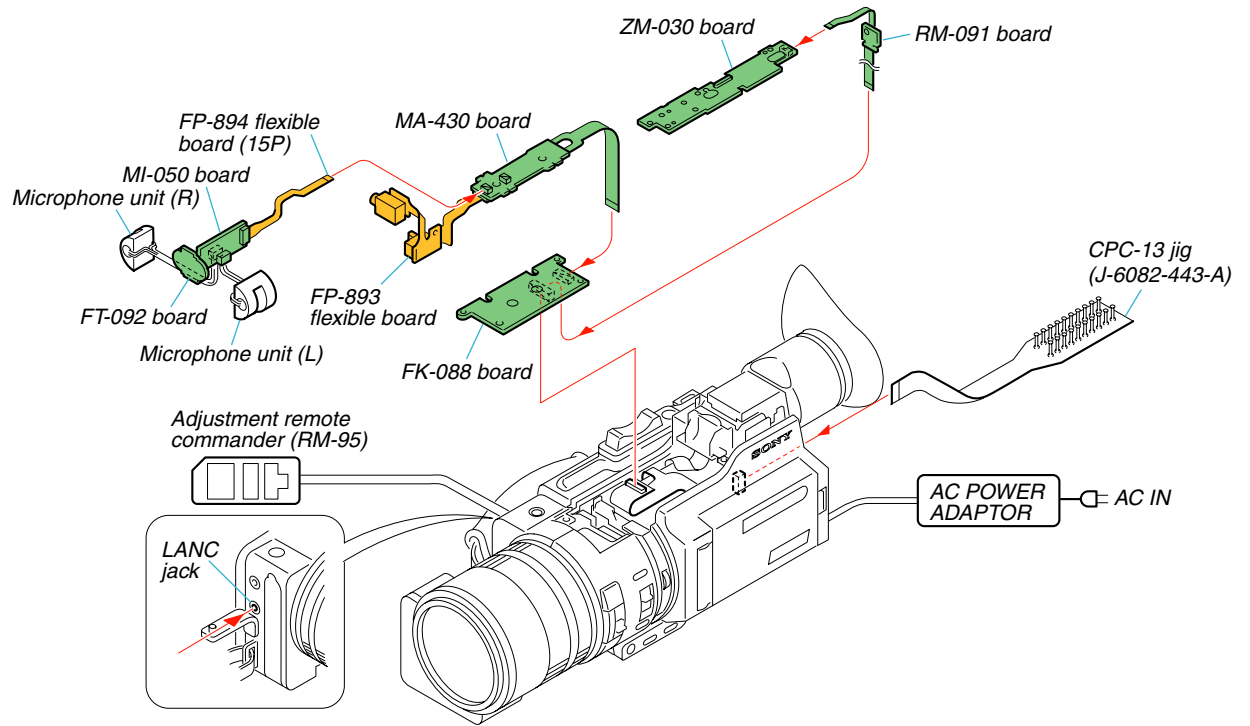


2-4. FK-088, MA-430, MI-050, FT-092, RM-091, ZM-030 BOARDS

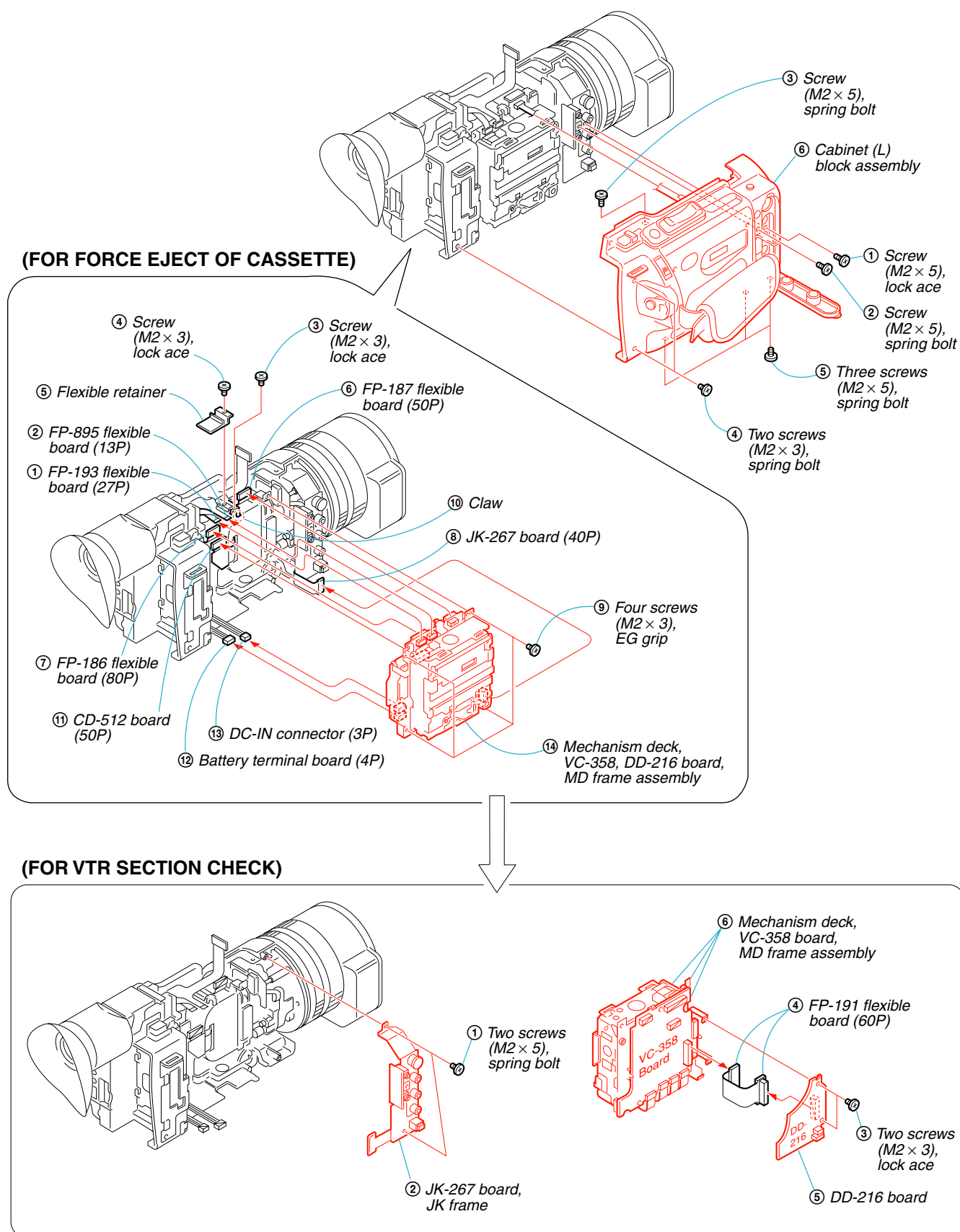


REMOVING THE MI-050, FT-092 BOARDS



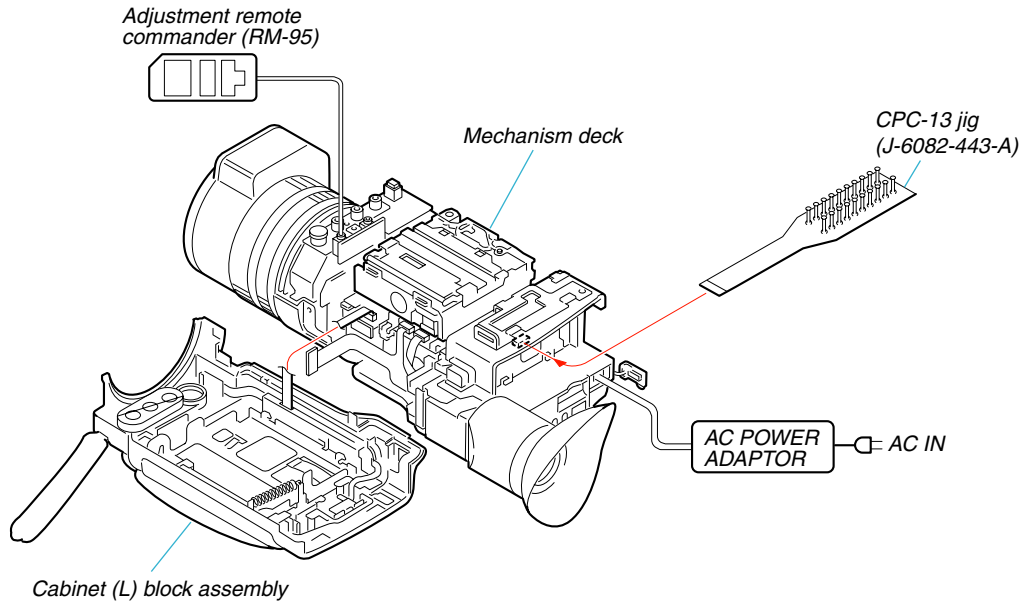
[FK-088, MA-430, MI-050, FT-092, RM-091 BOARDS SERVICE POSITION]

**2-5. CABINET (L) BLOCK ASSEMBLY, MECHANISM DECK,
VC-358, DD-216, JK-267 BOARDS
(FOR FORCE EJECT OF CASSETTE AND VTR SECTION CHECK)**



[MECHANISM DECK SERVICE POSITION-1]

Note: Use the parts only which can be removed easily from outside of the mechanism deck.

**[SERVICE POSITION TO CHECK THE VTR SECTION]****Connection to Check the VTR Section**

To check the VTR Section, set the VTR to the "forced VTR power ON" mode.

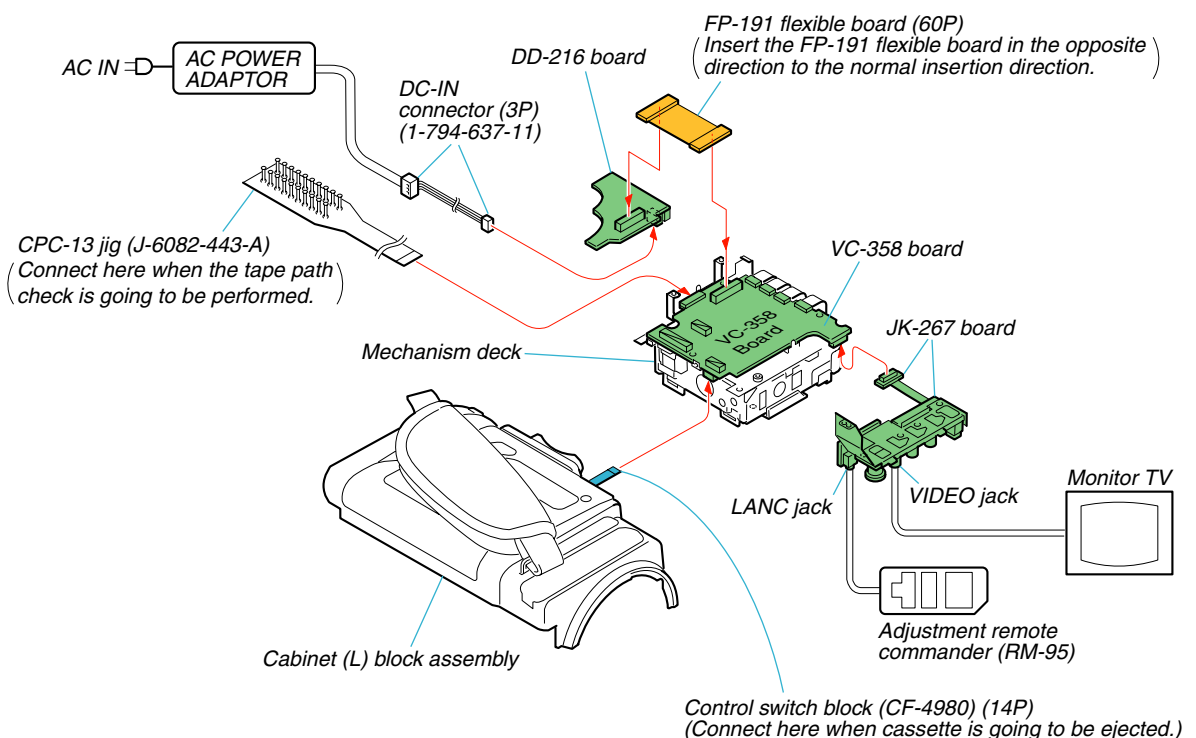
Operate the VTR functions using the adjustment remote commander (with the HOLD switch set in the OFF position) (However, connect the cabinet (L) assembly when cassette is going to be ejected only.)

Setting the "Forced VTR Power ON" mode

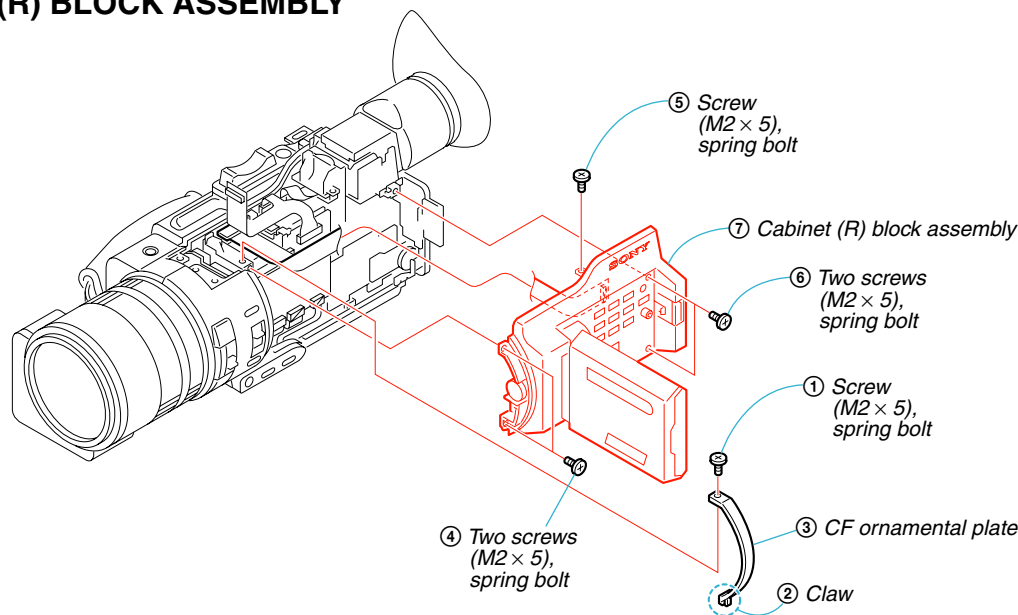
- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: D, address: 10, set data: 02, and press the PAUSE button of the adjustment remote commander.

Exiting the "Forced VTR Power ON" mode

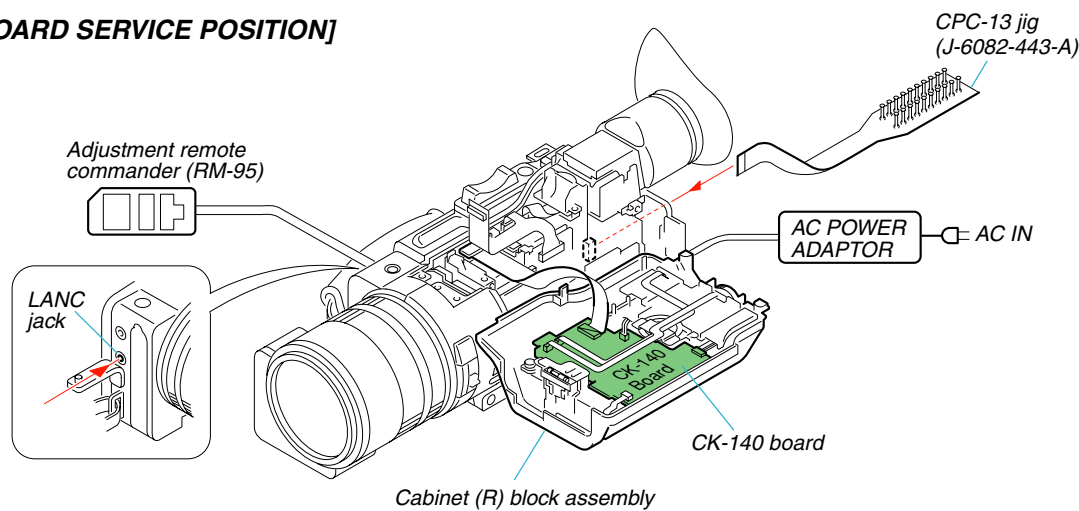
- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: D, address: 10, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 3) Select page: 0, address: 01, and set data: 00.



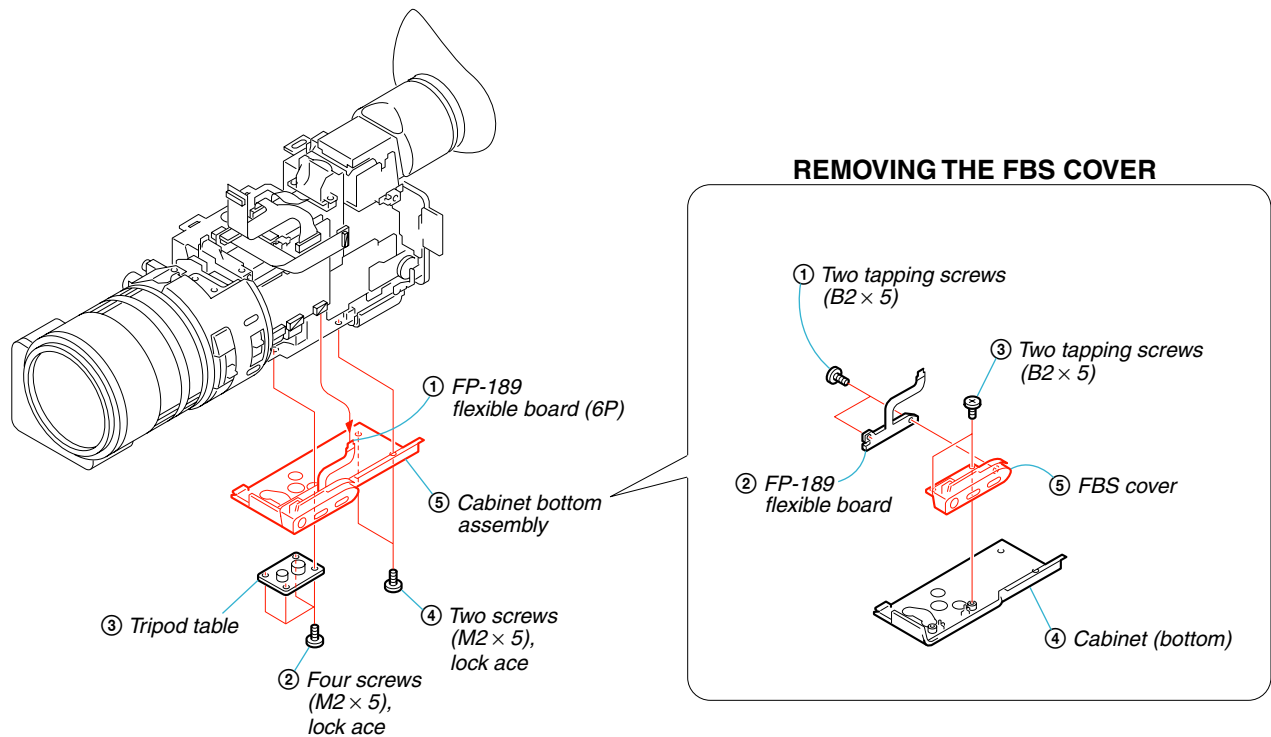
2-6. CABINET (R) BLOCK ASSEMBLY



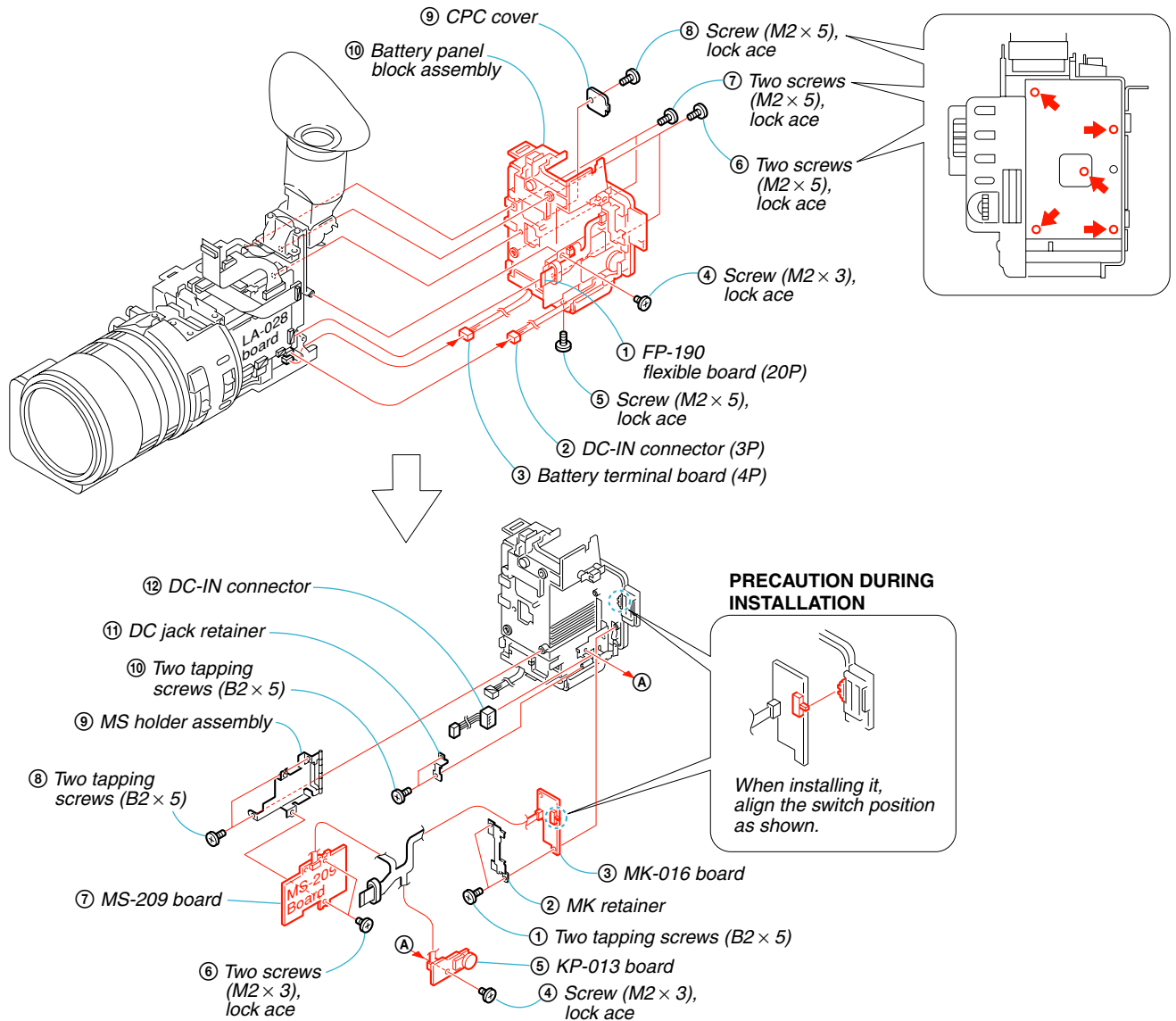
[CK-140 BOARD SERVICE POSITION]



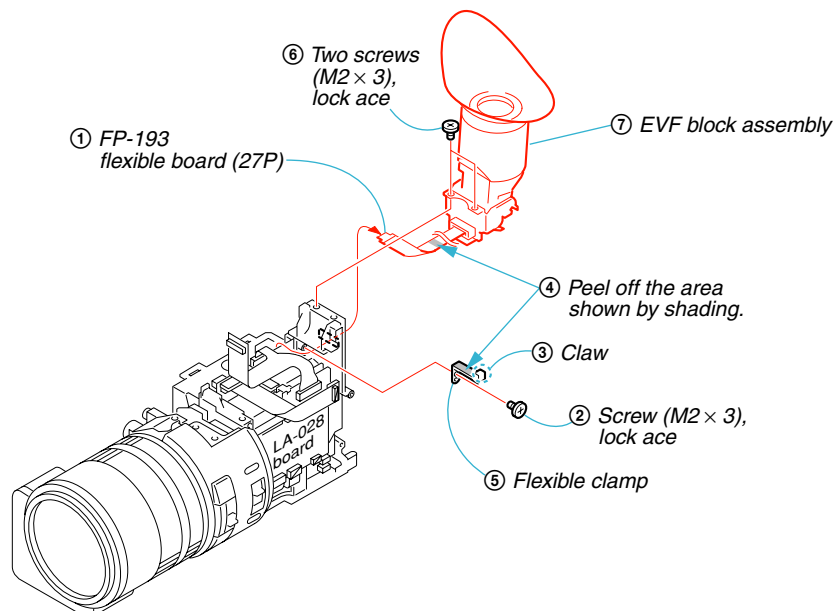
2-7. CABINET BOTTOM ASSEMBLY



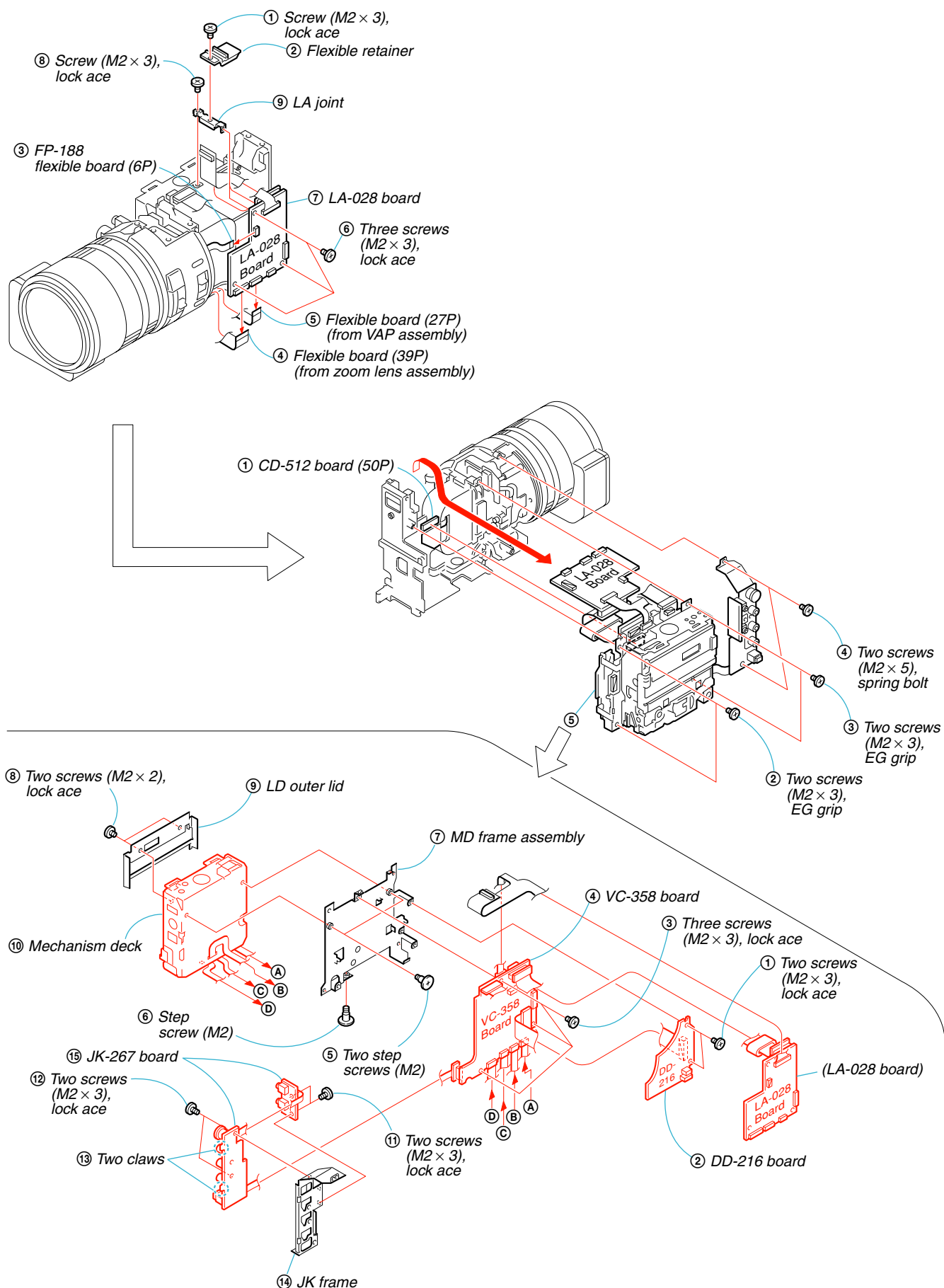
2-8. BATTERY PANEL BLOCK ASSEMBLY (MK-016, KP-013, MS-209 BOARDS)



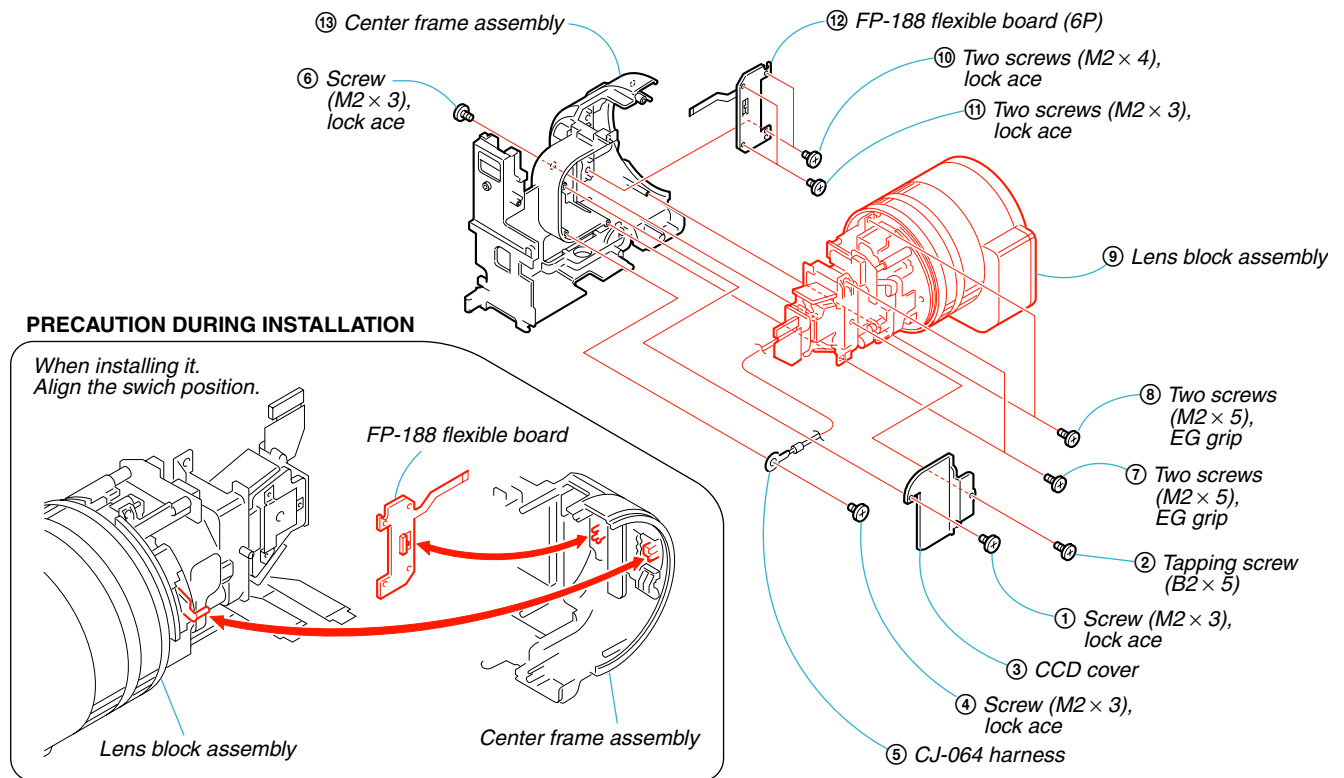
2-9. EVF BLOCK ASSEMBLY



2-10.LA-028, DD-216, VC-358, JK-267 BOARDS, MECHANISM DECK



2-11.LENS BLOCK ASSEMBLY, CENTER FRAME ASSEMBLY



[SERVICE POSITION TO CHECK THE CAMERA SECTION]

Connection to Check the CAMERA Section

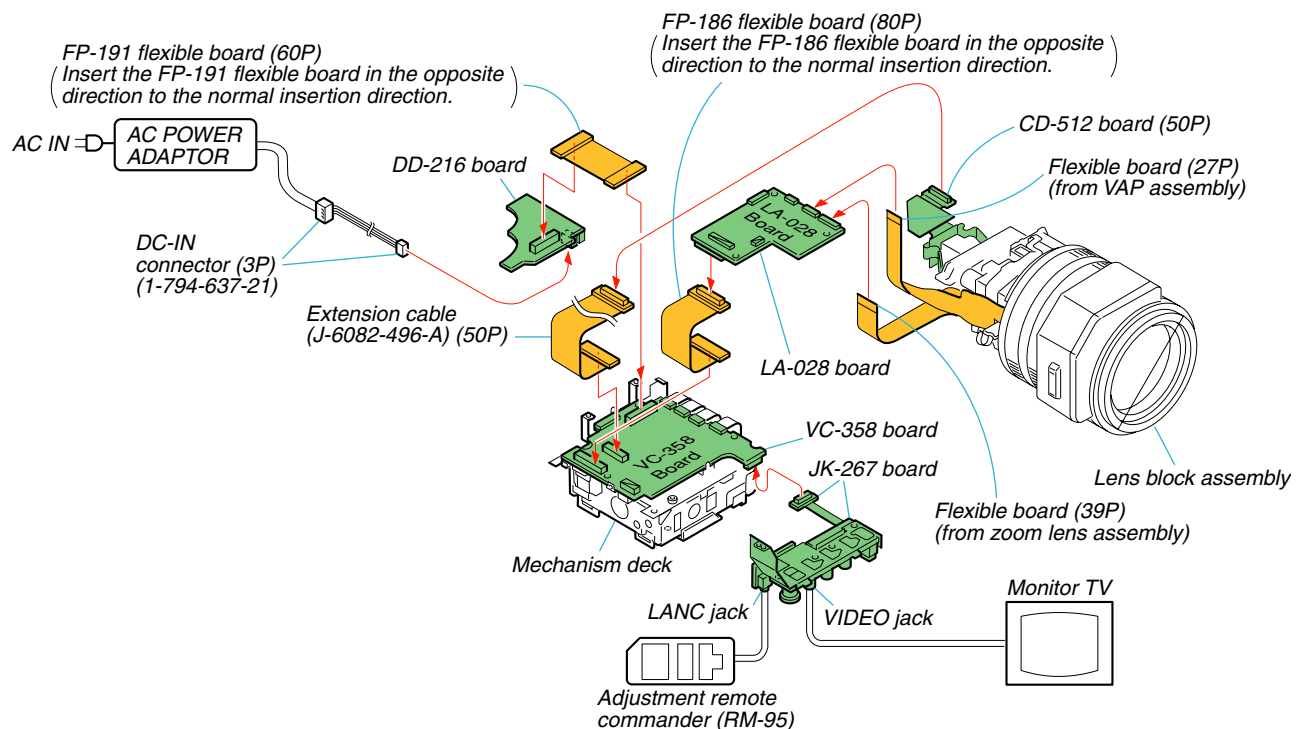
To check the CAMERA Section, set the CAMERA to the "forced CAMERA power ON" mode.

Setting the "Forced CAMERA Power ON" mode

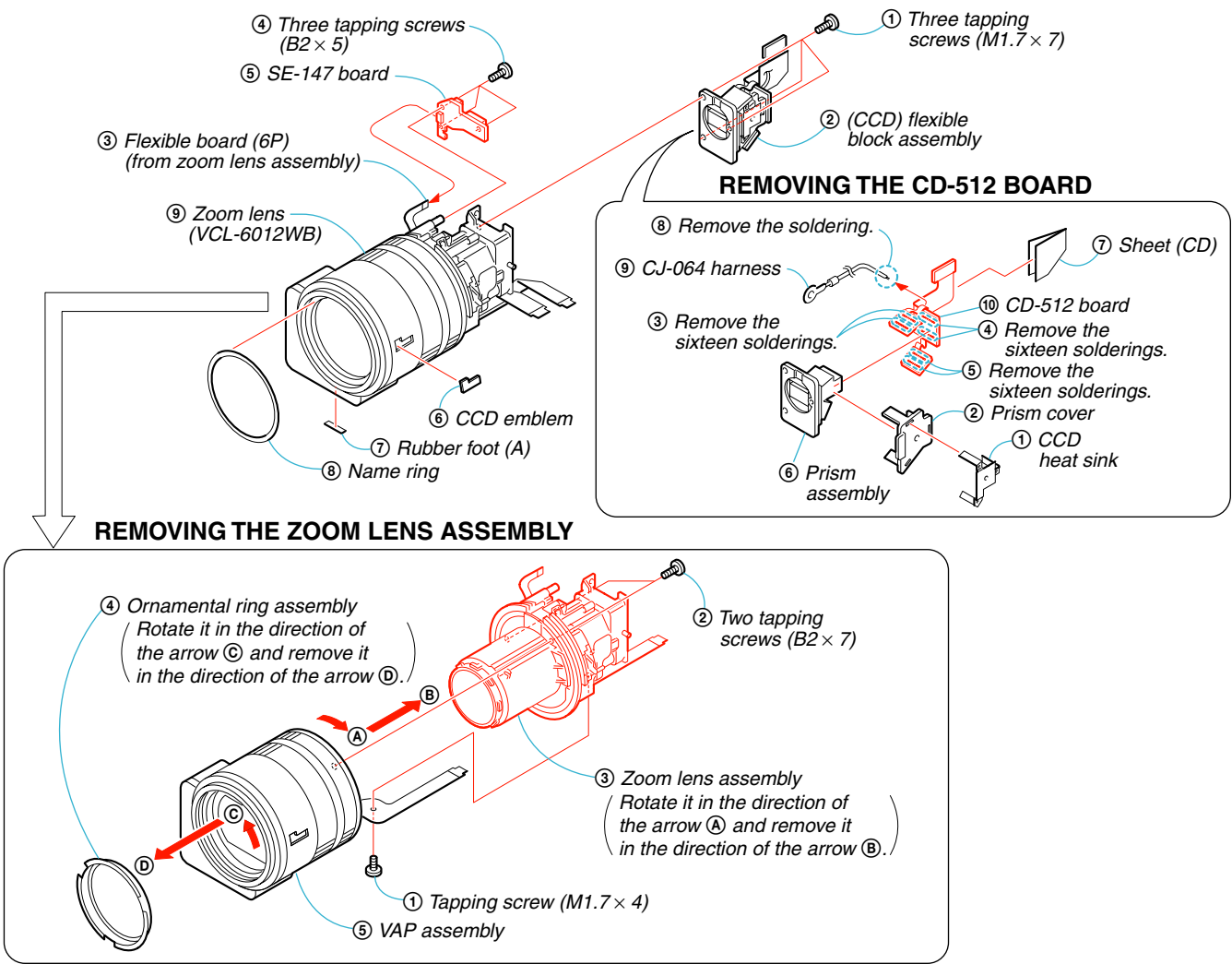
- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: D, address: 10, set data: 01, and press the PAUSE button of the adjustment remote commander.

Exiting the "Forced CAMERA Power ON" mode

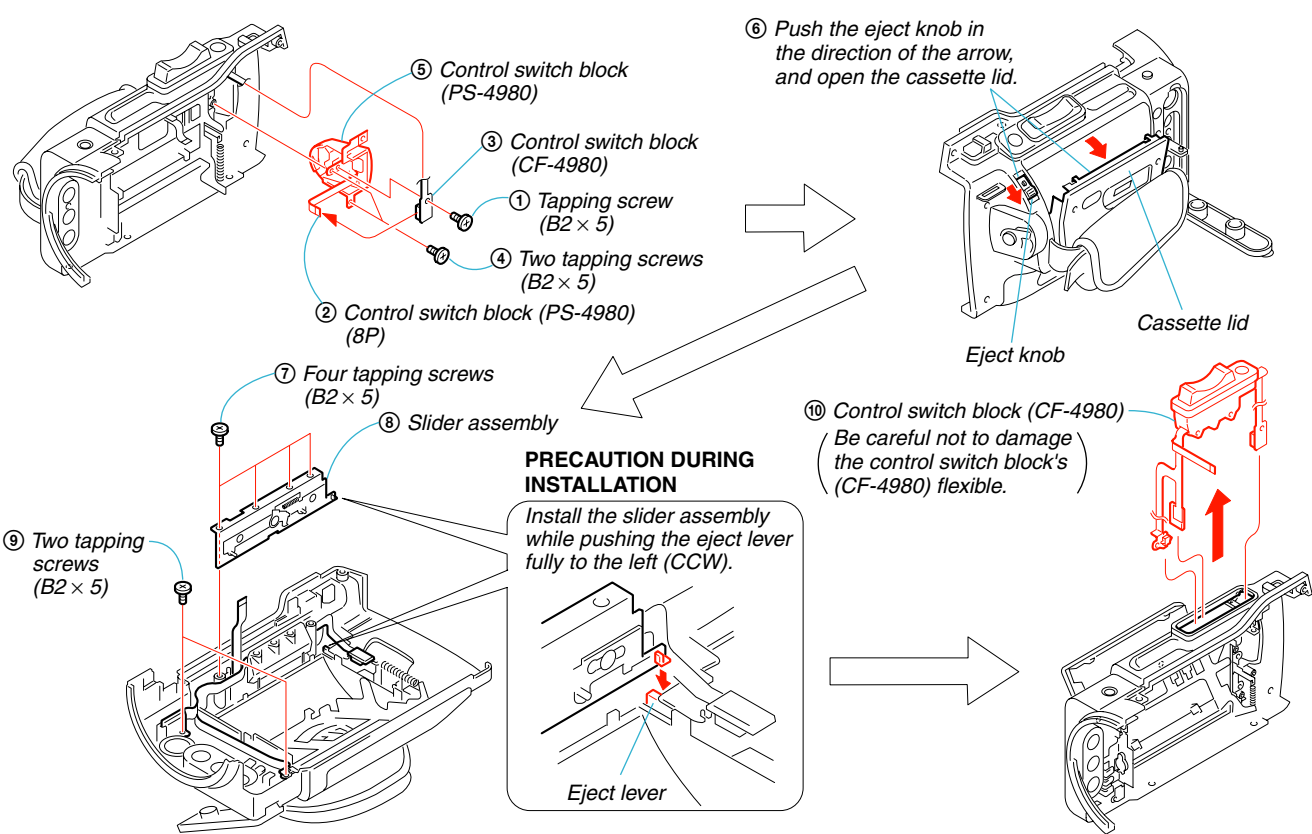
- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: D, address: 10, set data: 00, and press the PAUSE button of the adjustment remote commander.
- 3) Select page: 0, address: 01, and set data: 00.



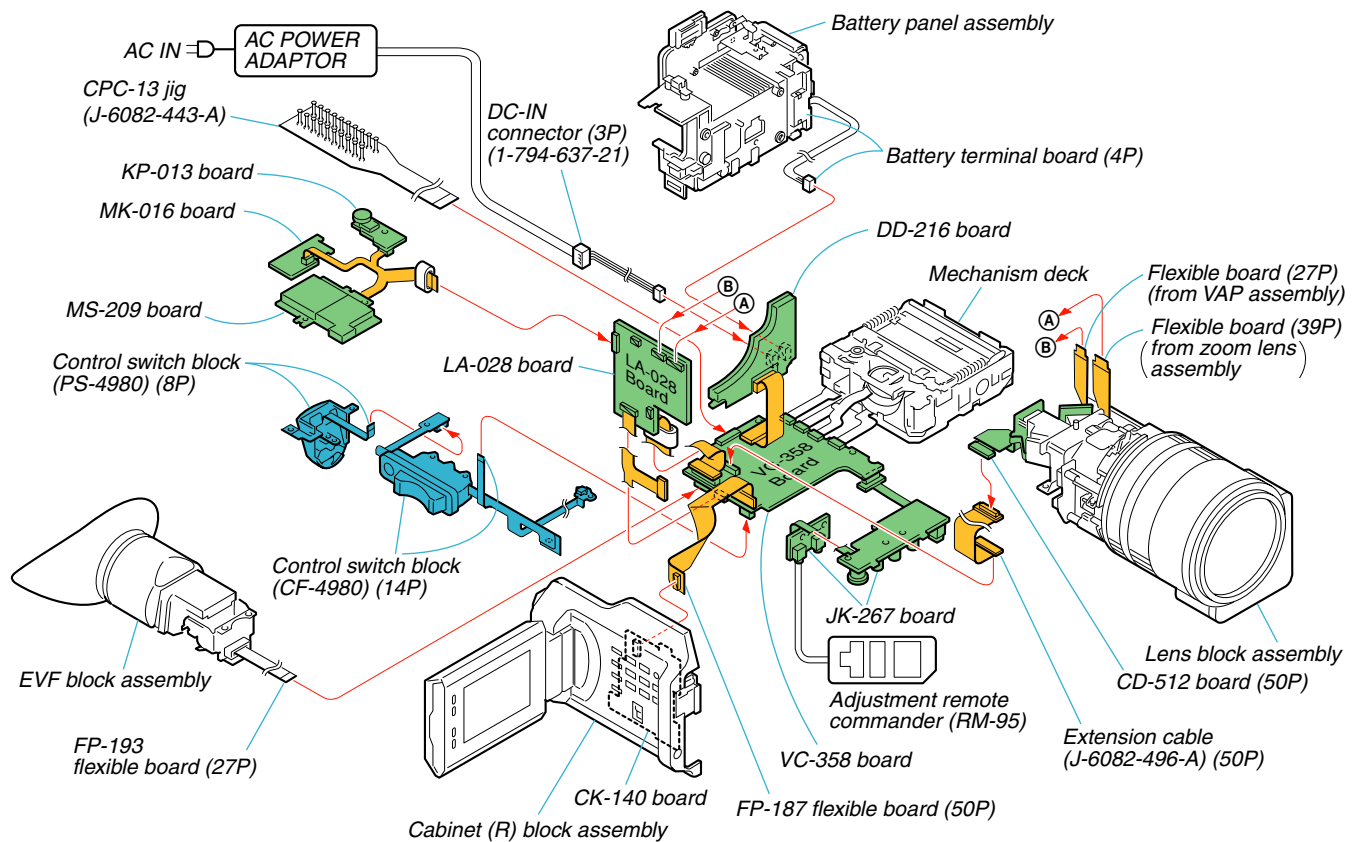
2-12.CD-512, SE-147 BOARDS, ZOOM LENS ASSEMBLY



2-13.CONTROL SWITCH BLOCK (PS-4980), CONTROL SWITCH BLOCK (CF-4980)



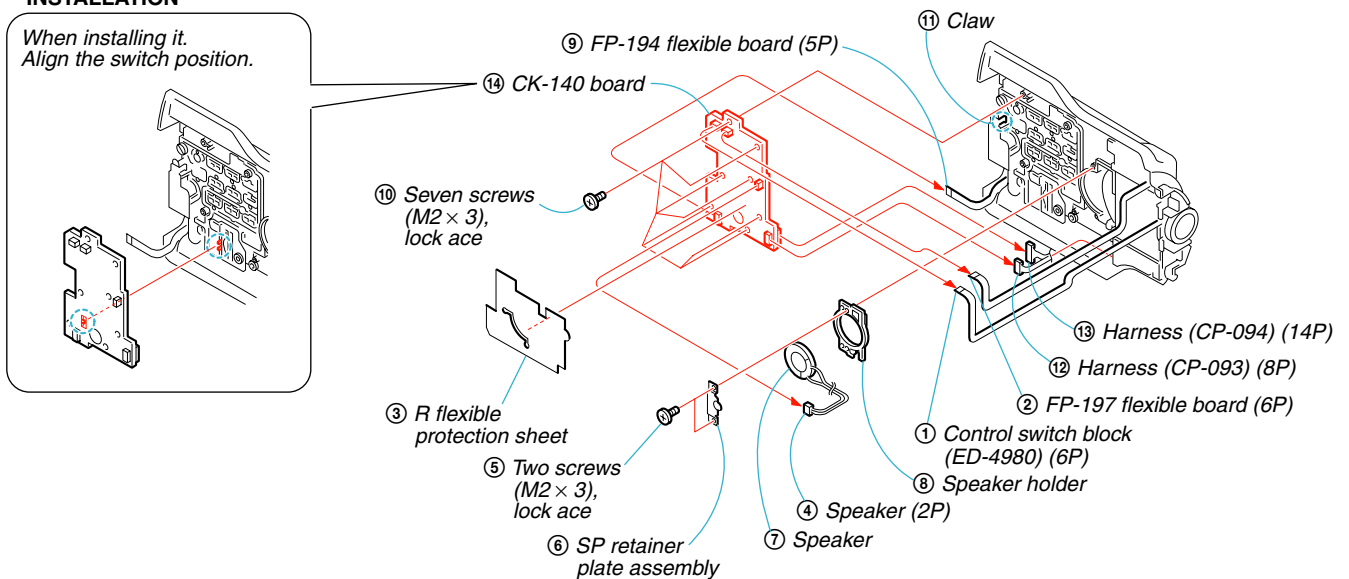
[CONNECTION DIAGRAM FOR SERVICE POSITION (Mainly for voltage measurement and check)]
(CK-140, VC-358, JK-267, CD-512, DD-216, LA-028, KP-013, MK-016, MS-209 BOARDS,)
MECHANISM DECK-2



2-14. CK-140 BOARD

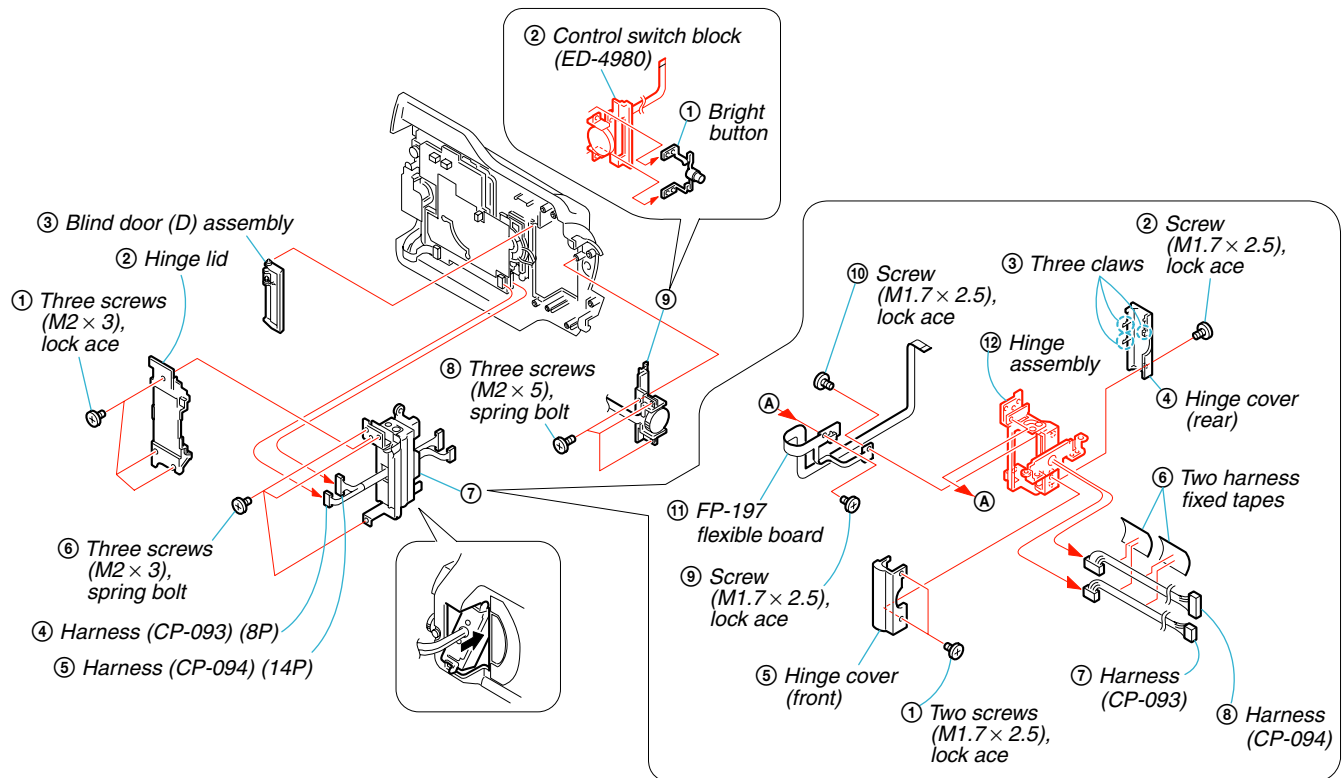
PRECAUTION DURING INSTALLATION

When installing it.
Align the switch position.



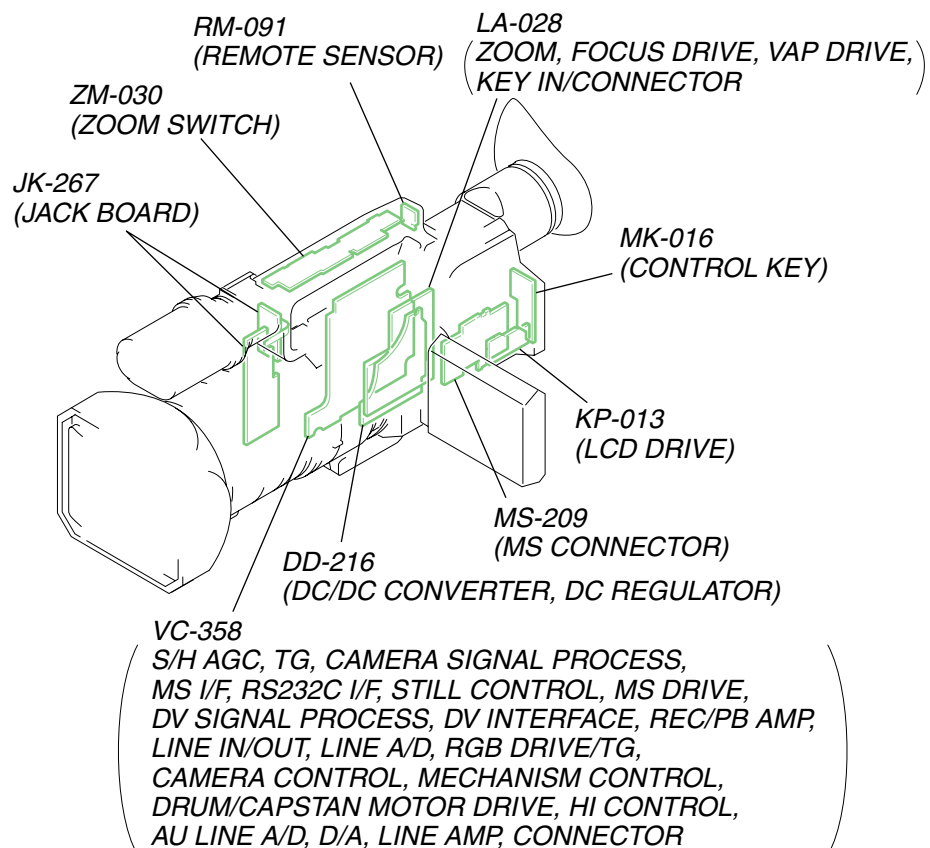
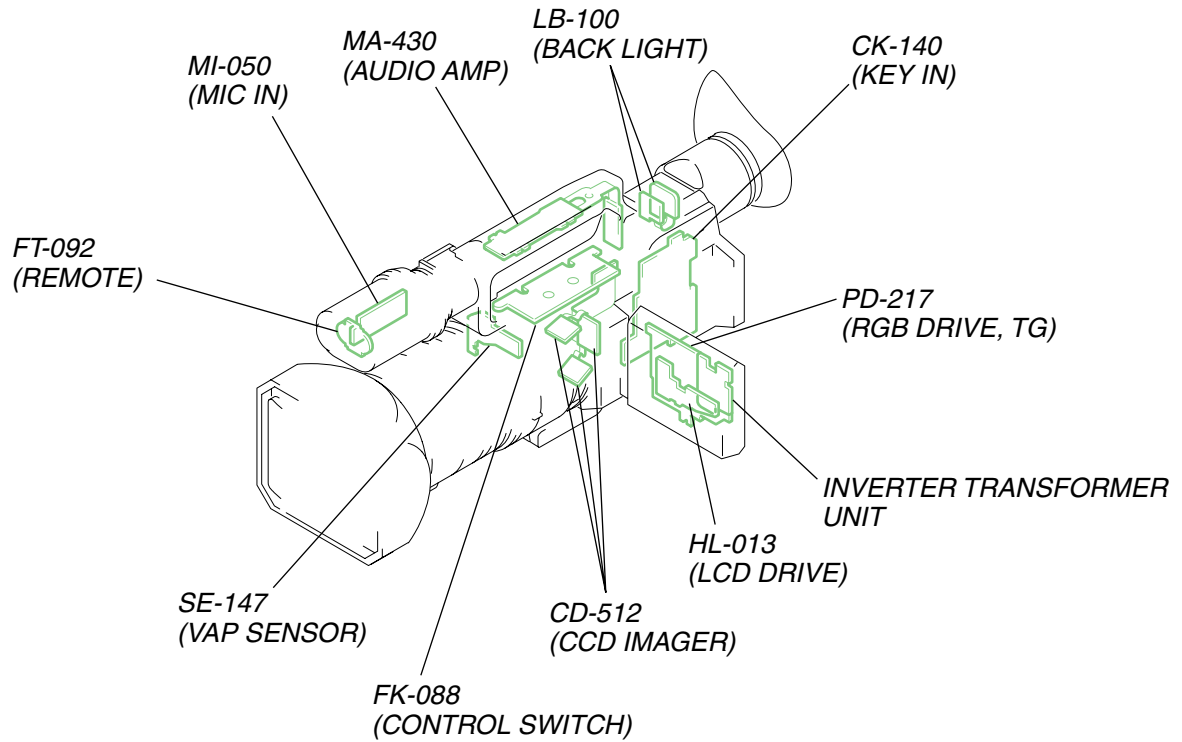
2-15.CONTROL SWITCH BLOCK (ED-4980), HINGE ASSEMBLY

Start the removal work after the LCD section has been removed referring section 2-1.



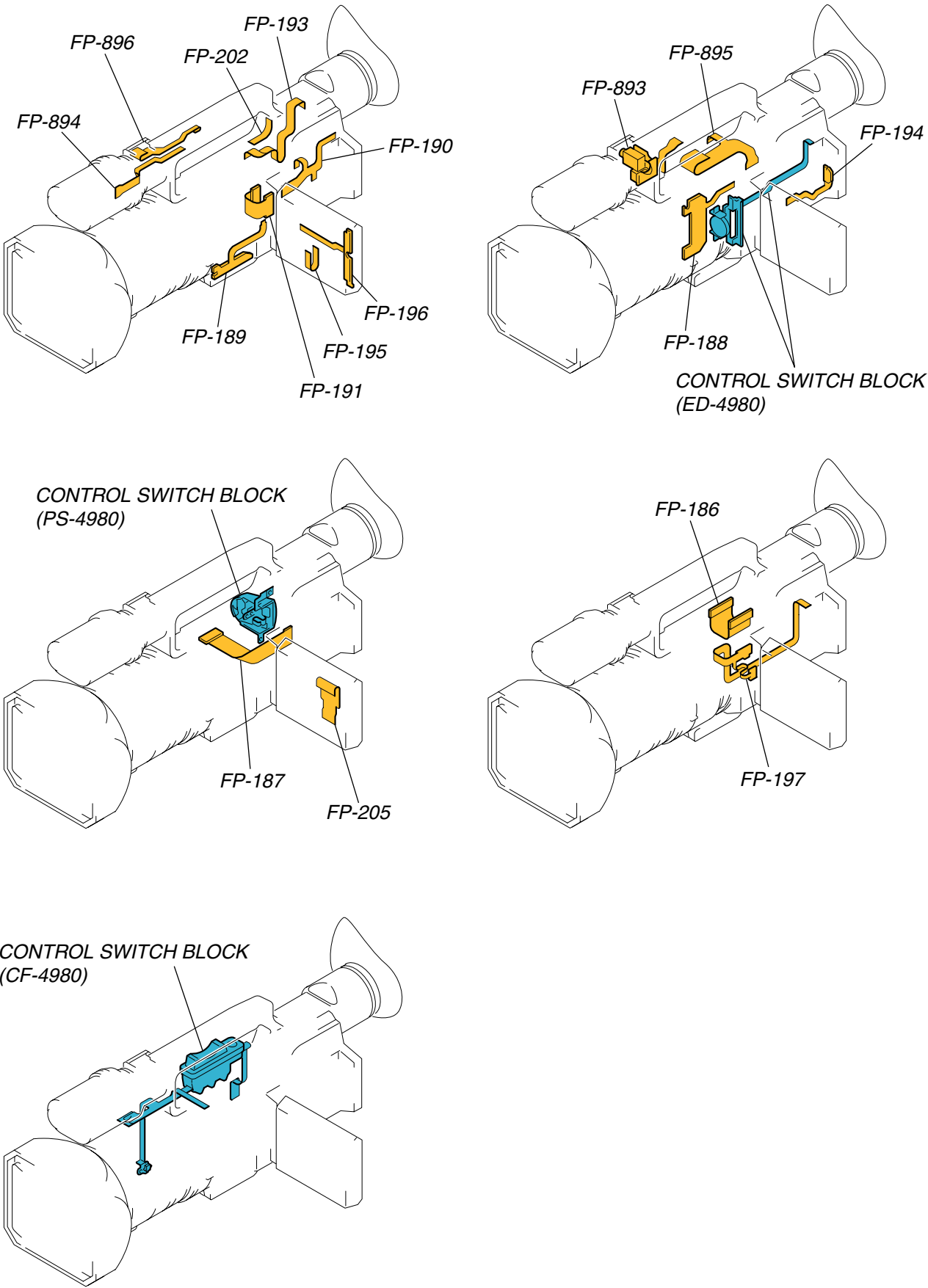
2-16. CIRCUIT BOARDS LOCATION

The circuit boards contained in the zoom lens are not shown.



2-17.FLEXIBLE BOARDS LOCATION

The flexible boards contained in the mechanism deck and that in the zoom lens are not shown.



3. BLOCK DIAGRAMS

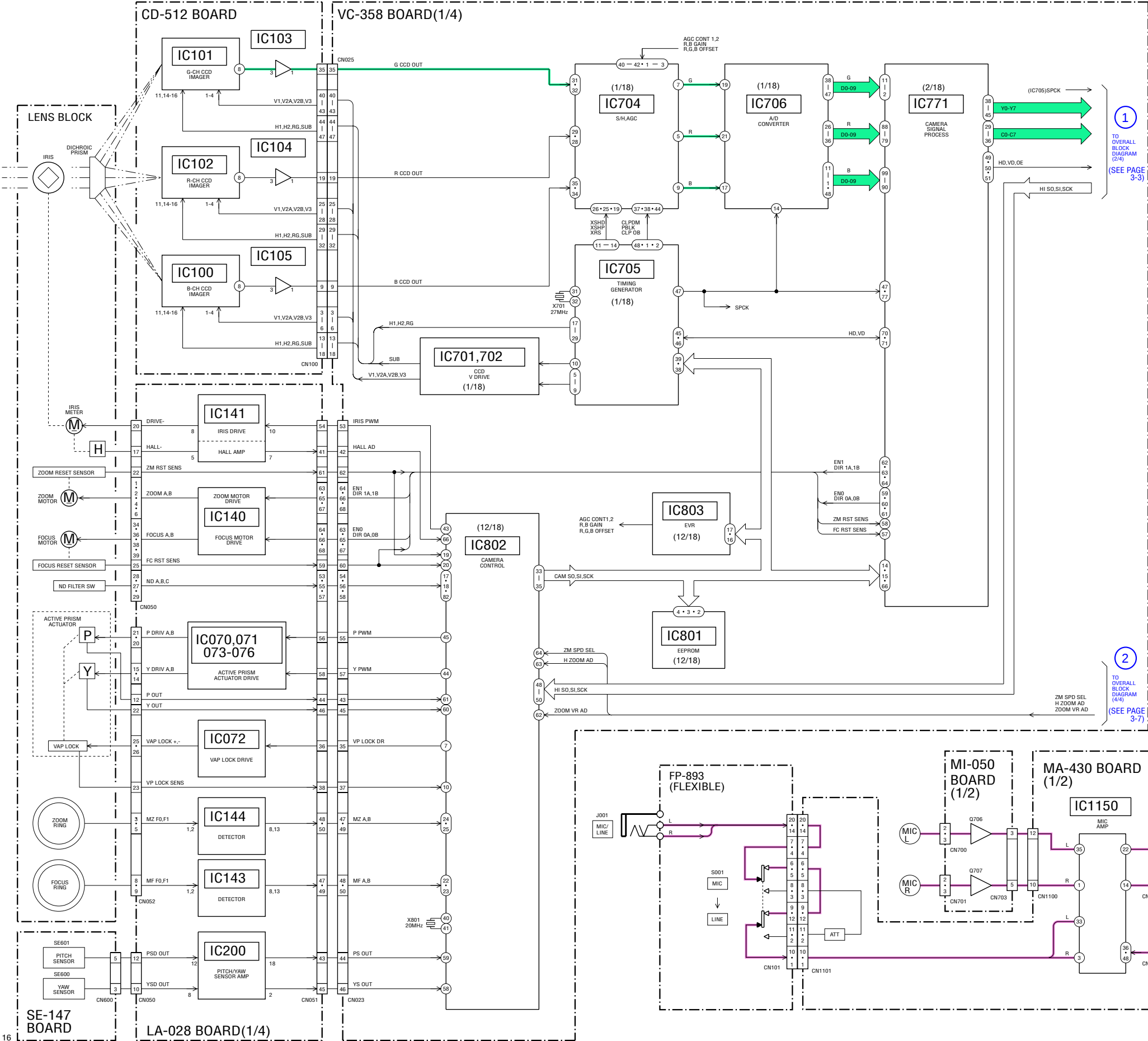
Link

OVERALL BLOCK DIAGRAM (1/4)	POWER BLOCK DIAGRAM (1/3)
OVERALL BLOCK DIAGRAM (2/4)	POWER BLOCK DIAGRAM (2/3)
OVERALL BLOCK DIAGRAM (3/4)	POWER BLOCK DIAGRAM (3/3)
OVERALL BLOCK DIAGRAM (4/4)	

SECTION 3
BLOCK DIAGRAMS

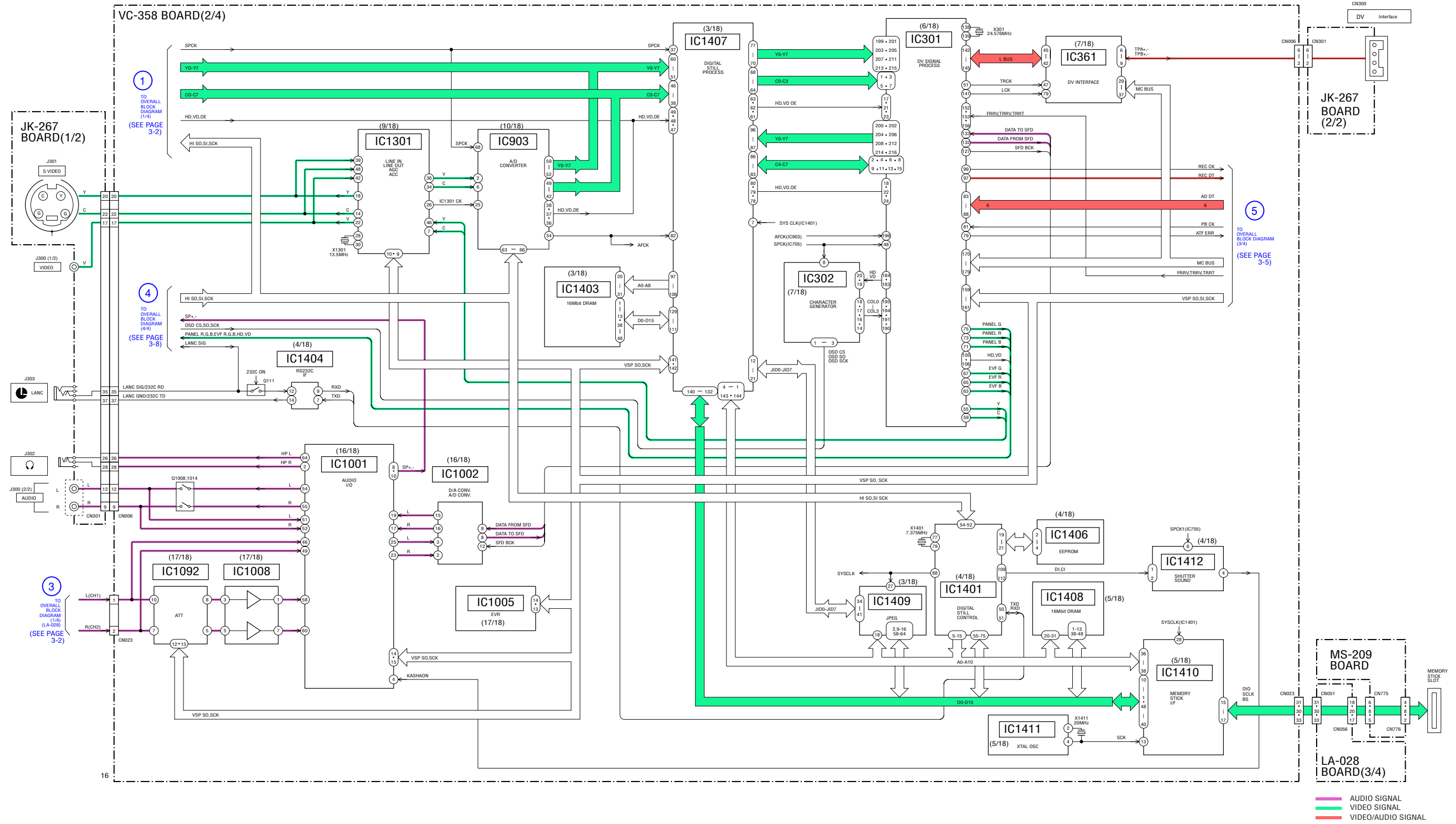
3. BLOCK DIAGRAMS

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



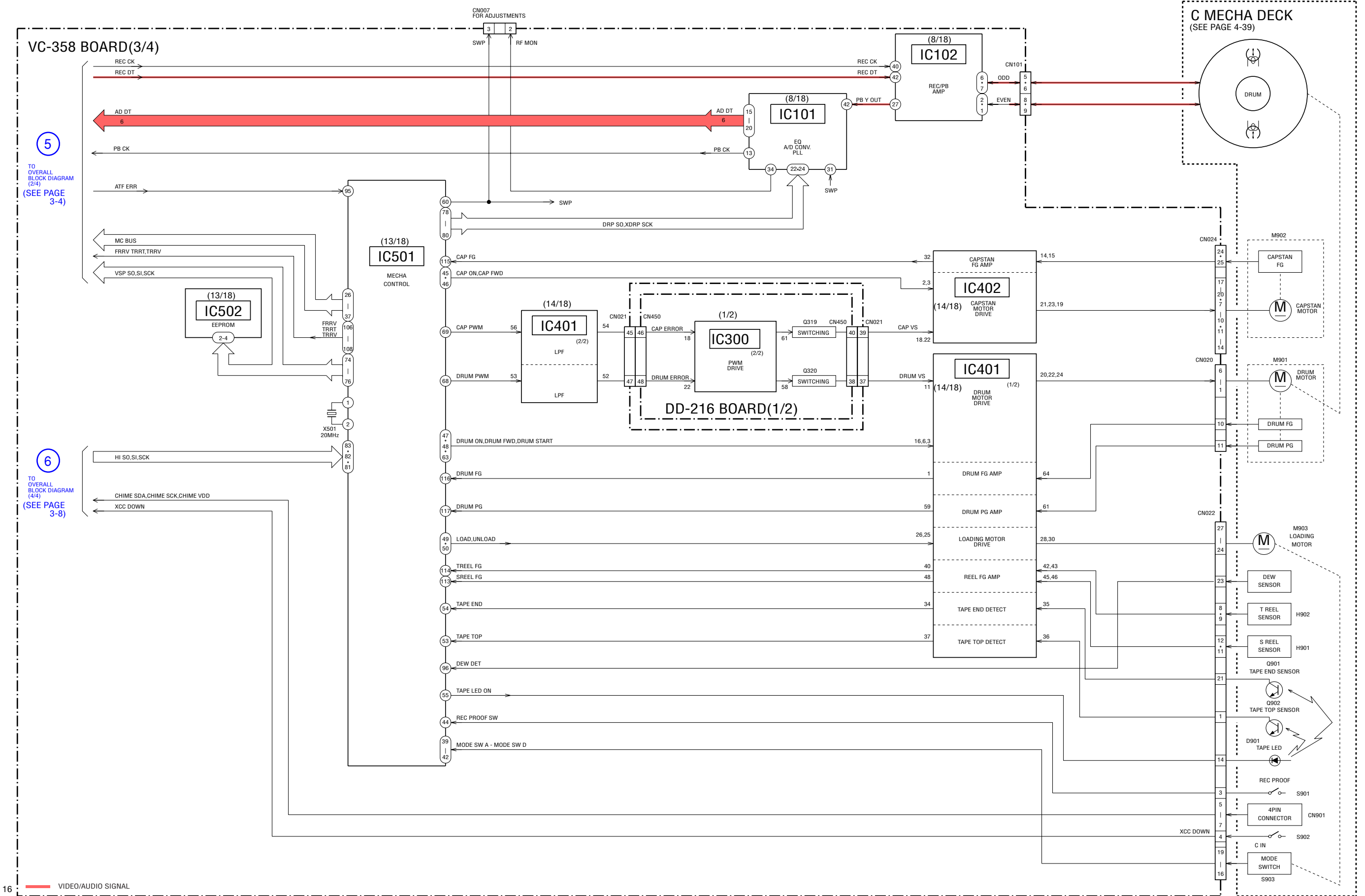
3. BLOCK DIAGRAMS

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



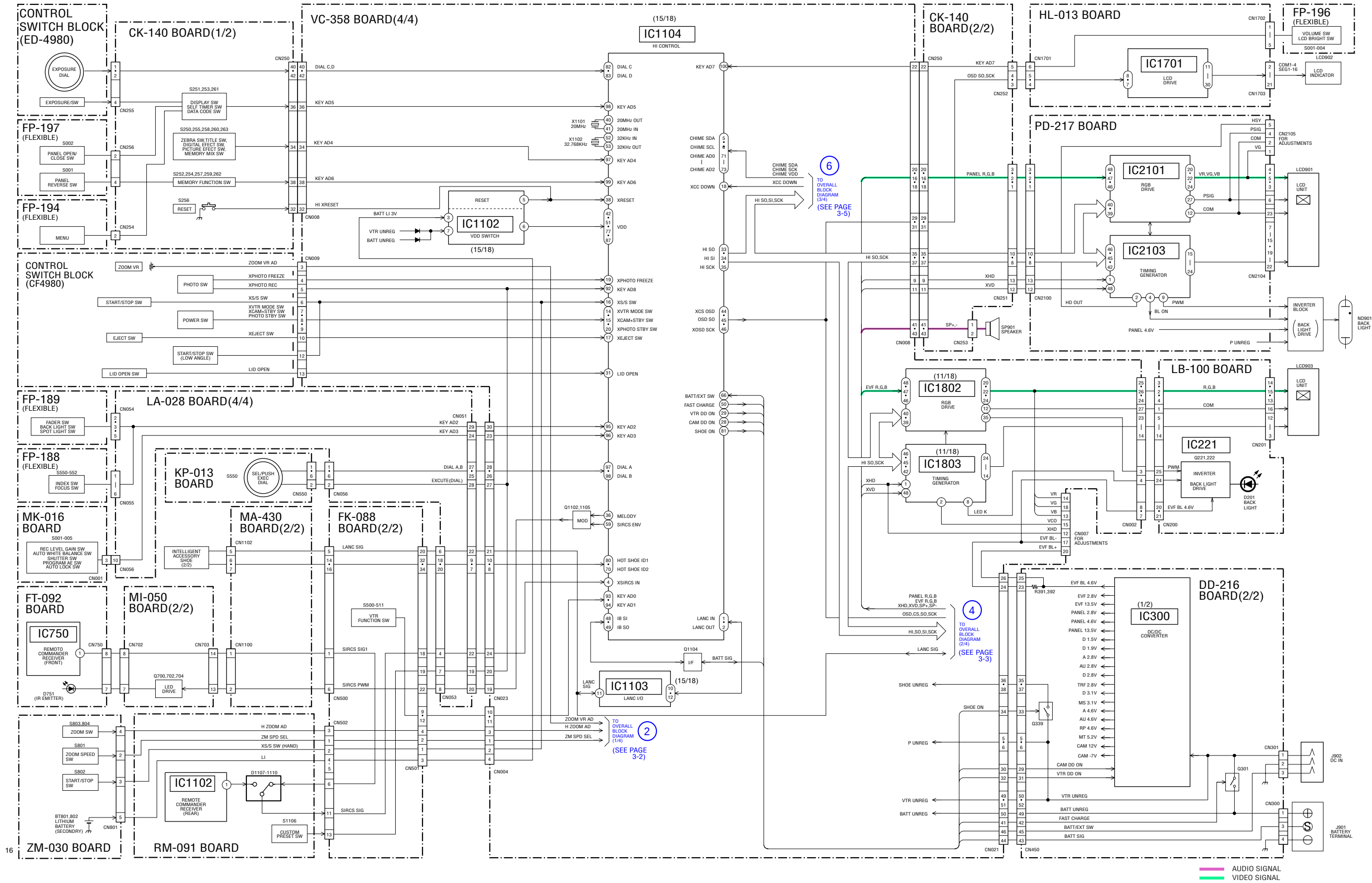
3. BLOCK DIAGRAMS

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



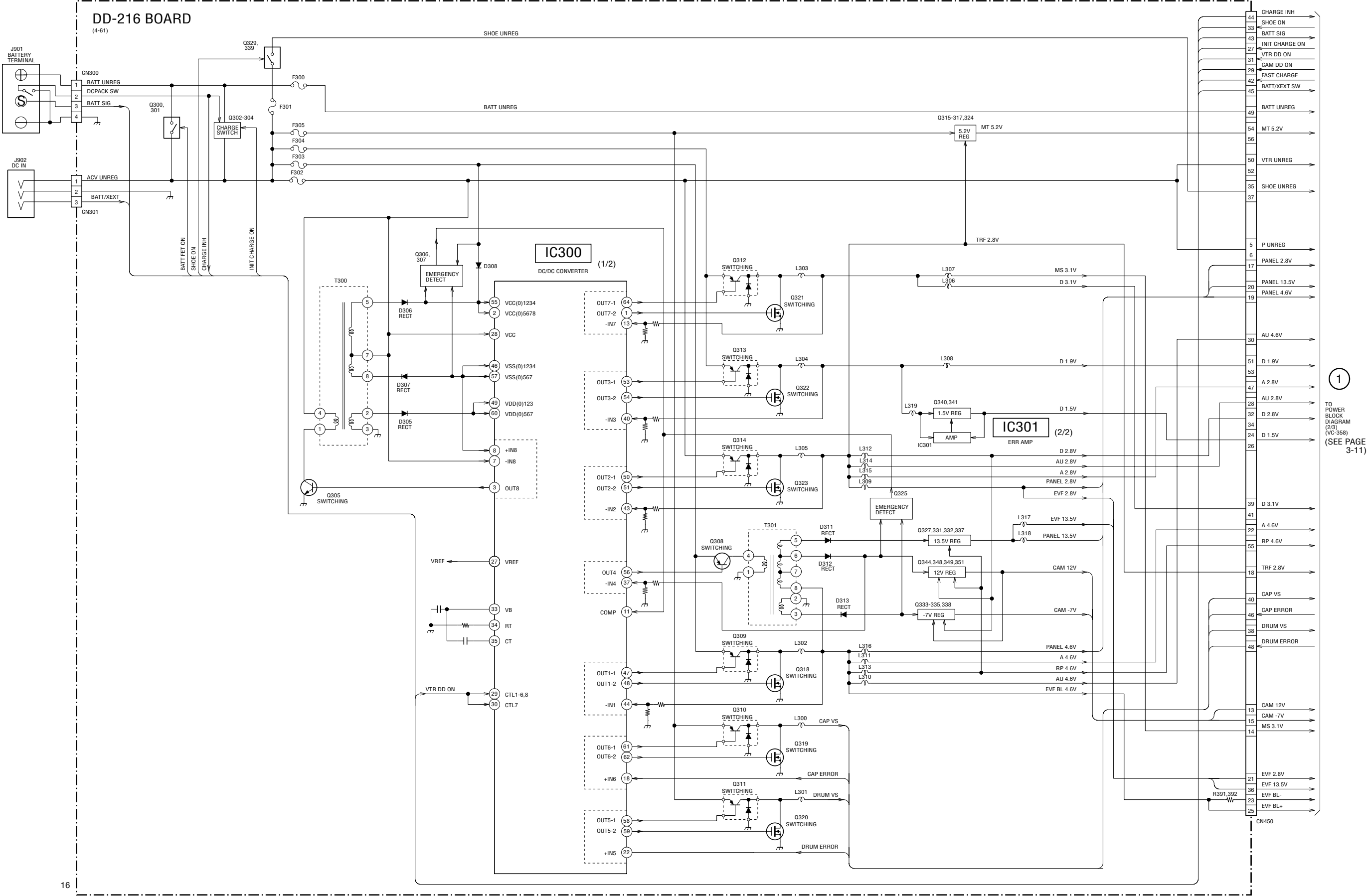
3. BLOCK DIAGRAMS

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



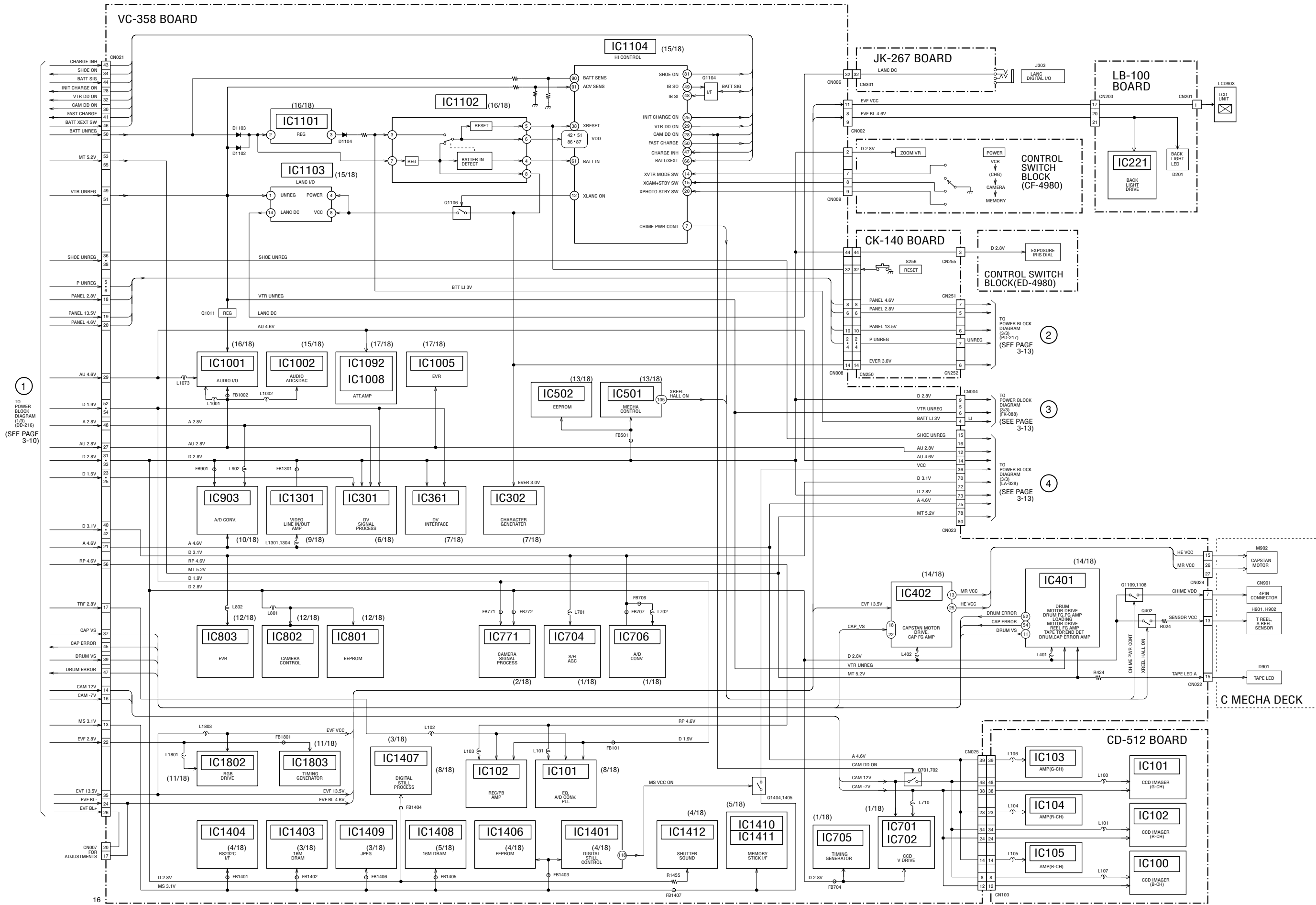
3. BLOCK DIAGRAMS

3-5. POWER BLOCK DIAGRAM (1/3) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.



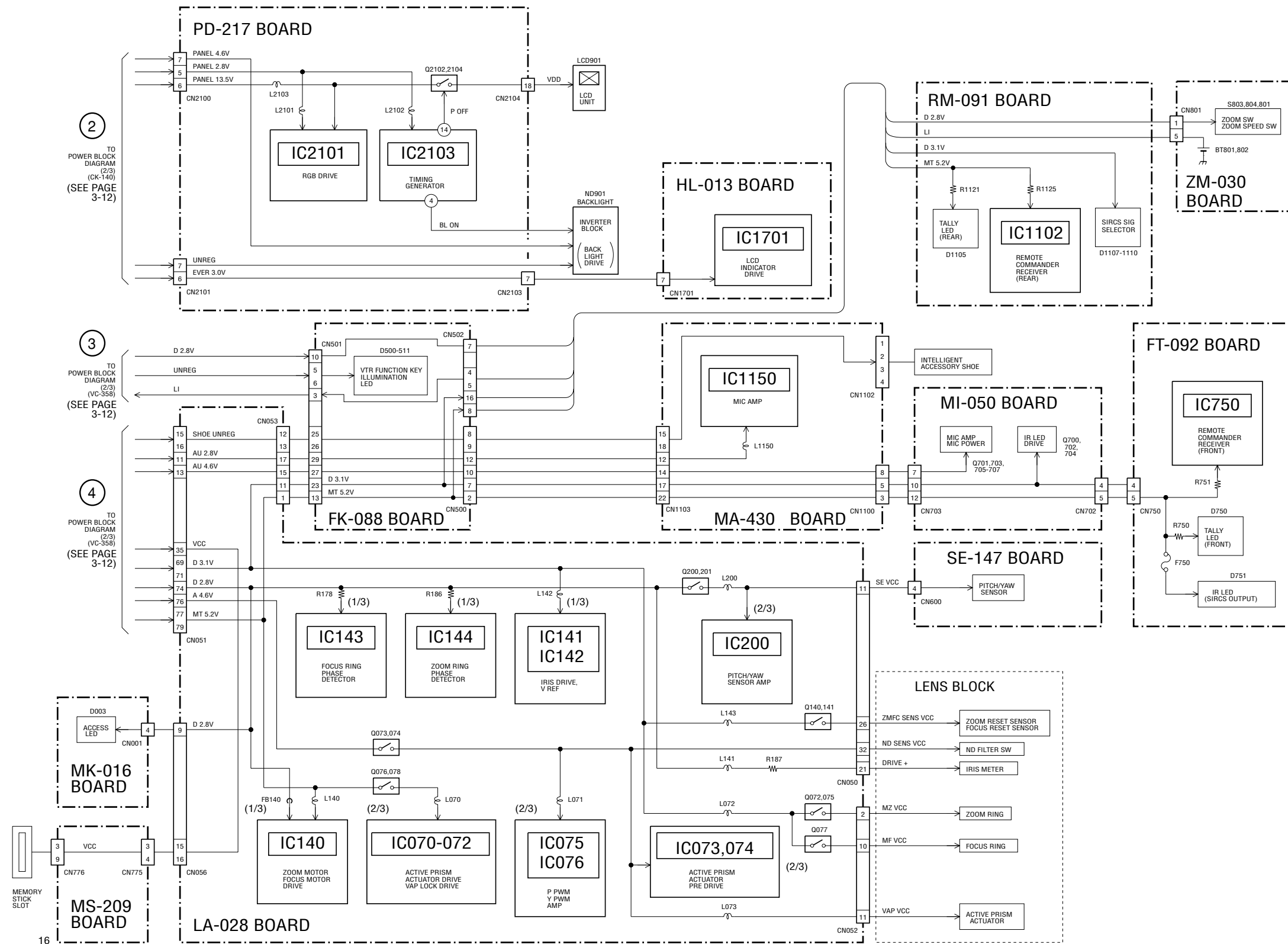
3. BLOCK DIAGRAMS

3-6. POWER BLOCK DIAGRAM (2/3) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.



3. BLOCK DIAGRAMS

3-7. POWER BLOCK DIAGRAM (3/3) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.

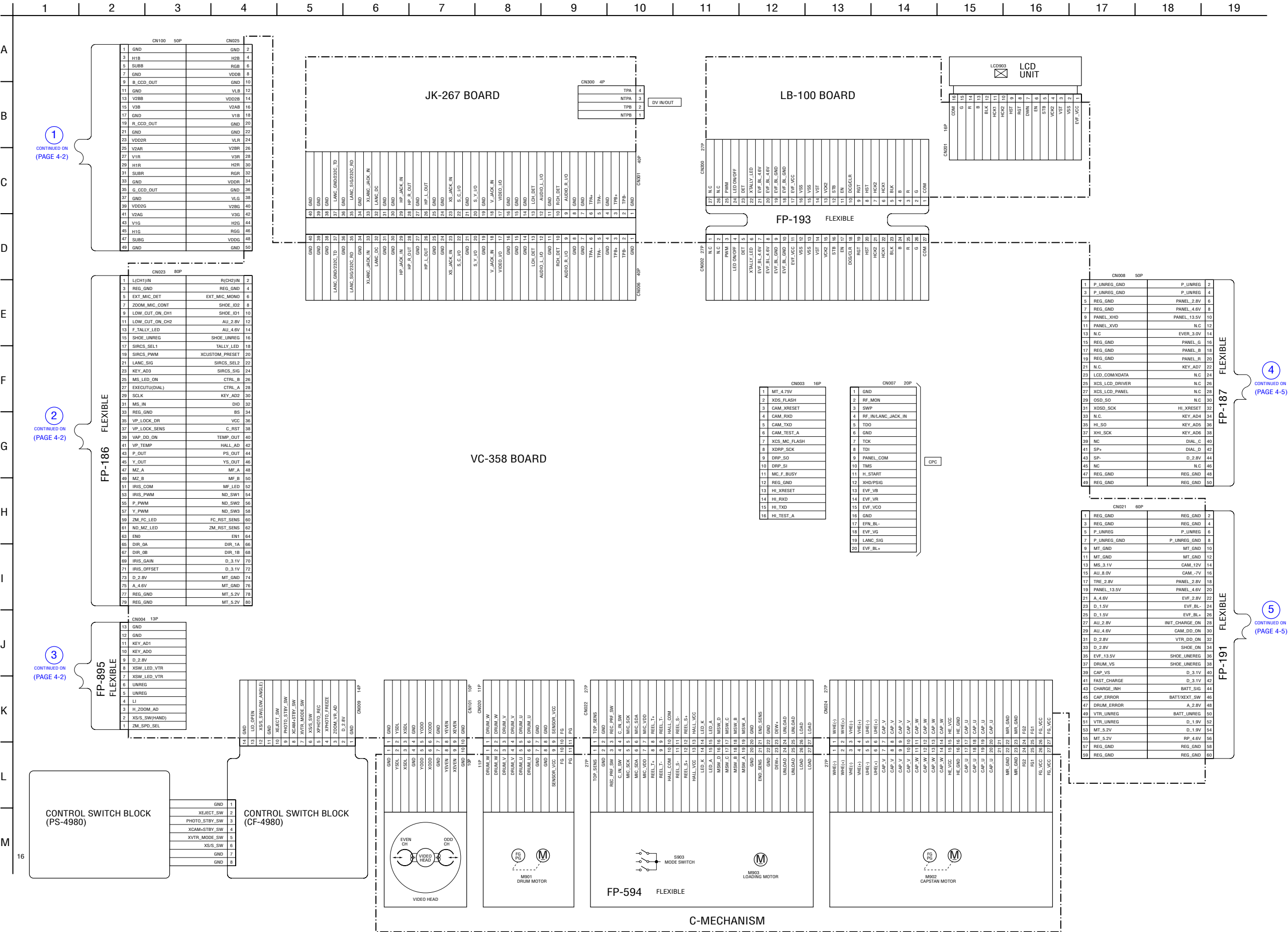


FRAME SCHEMATIC DIAGRAM (1/3)

4-2. SCHEMATIC DIAGRAMS

4-3. PRINTED WIRING BOARDS

FRAME SCHEMATIC DIAGRAM (2/3)

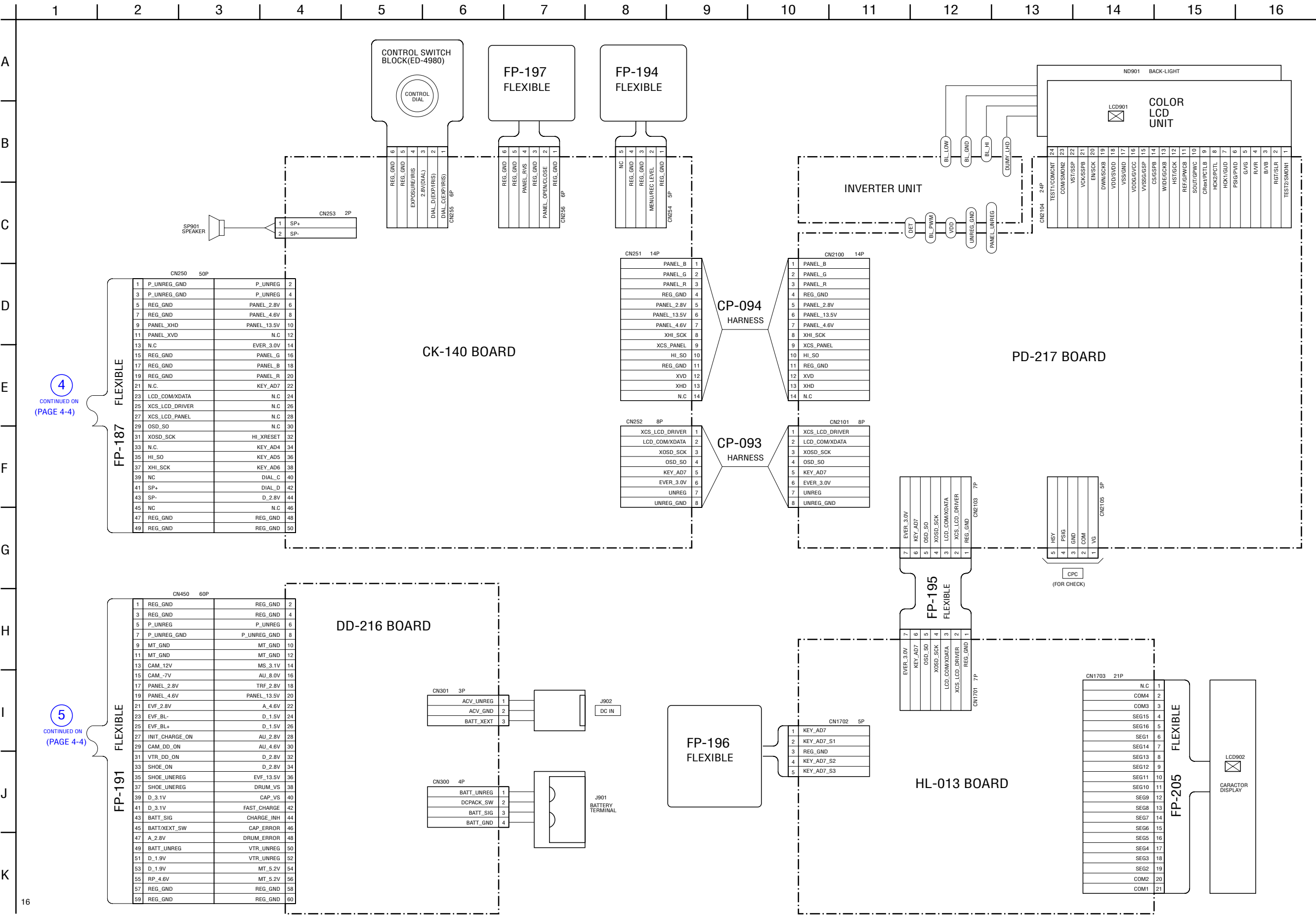


4-4

4-2. SCHEMATIC DIAGRAMS

4-3. PRINTED WIRING BOARDS

FRAME SCHEMATIC DIAGRAM (3/3)



4-2. SCHEMATIC DIAGRAMS

Link

• CD-512 BOARD (CCD IMAGER)	• ZM-030 BOARD (ZOOM SWITCH)
• JK-267 BOARD (JACK BOARD)	• FK-088 BOARD (CONTROL SWITCH)
• CK-140 BOARD (KEY IN)	• FT-092 BOARD (REMOTE)
• CONTROL SWITCH BLOCK (ED-4980)	• MI-050 BOARD (MIC IN)
• FP-194, FP-197 FLEXIBLE BOARD	• FP-893, FP-894 FLEXIBLE BOARD
• PD-217 BOARD (RGB DRIVE, TG)	• LB-100 BOARD (BACK LIGHT)
• LA-028 BOARD (1/3) (ZOOM/FOCUS DRIVE)	• CONTROL SWITCH BLOCK (CF-4980, PS-4980)
• SE-147 BOARD (VAP SENSOR)	• HL-013 BOARD (LCD DRIVE)
• LA-028 BOARD (2/3) (VAP DRIVE)	• FP-195, FP-196, FP-205 FLEXIBLE BOARD
• LA-028 BOARD (3/3) (KEY IN/CONNECTOR)	• MA-430 BOARD (AUDIO AMP)
• FP-188, FP-189 FLEXIBLE BOARD	• FP-896 FLEXIBLE BOARD
• KP-013 BOARD (SELECT DIAL)	• DD-216 BOARD (1/2) (DC/DC CONVERTER)
• MK-016 BOARD (CONTROL KEY)	• DD-216 BOARD (2/2) (DC REGURATOR)
• MS-209 BOARD (MS CONNECTOR)	• RM-091 BOARD (REAR REMOCON RECEIVER)

• COMMON NOTE FOR SCHEMATIC DIAGRAMS

• WAVEFORMS

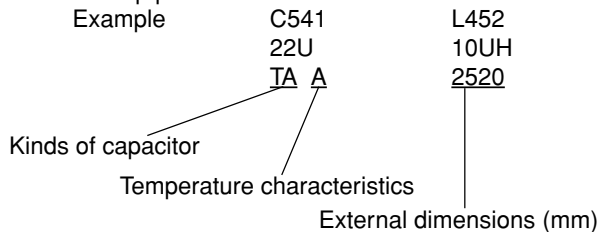
4-2. SCHEMATIC DIAGRAMS

THIS NOTE IS COMMON FOR SCHEMATIC DIAGRAMS

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

(For schematic diagrams)

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

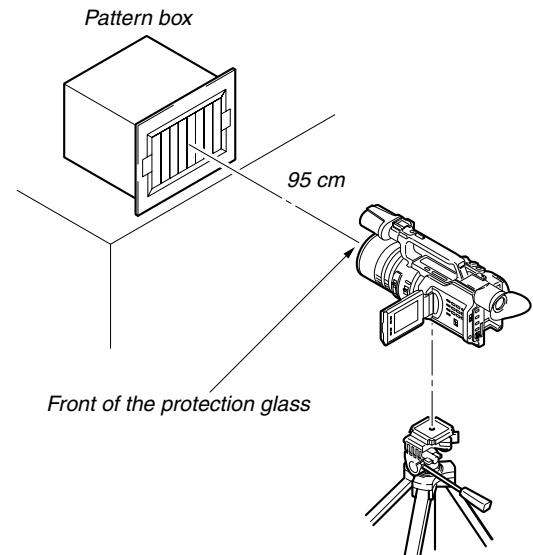


- Constants of resistors, capacitors, ICs and etc with XX indicate that they are not used.
In such cases, the unused circuits may be indicated.
- Parts with * differ according to the model/destination.
Refer to the mount table for each function.
- All variable and adjustable resistors have characteristic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

(Measuring conditions voltage and waveform)

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

1. Connection



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

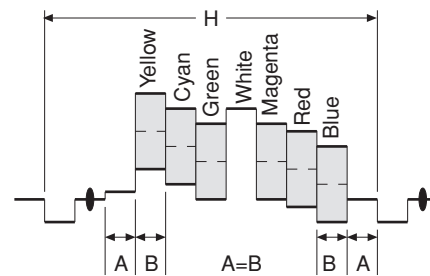


Fig. a (Video output terminal output waveform)

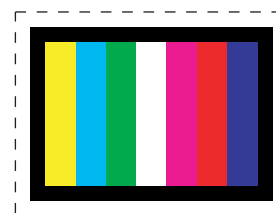


Fig.b (Picture on monitor TV)

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

Note :

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

Note :

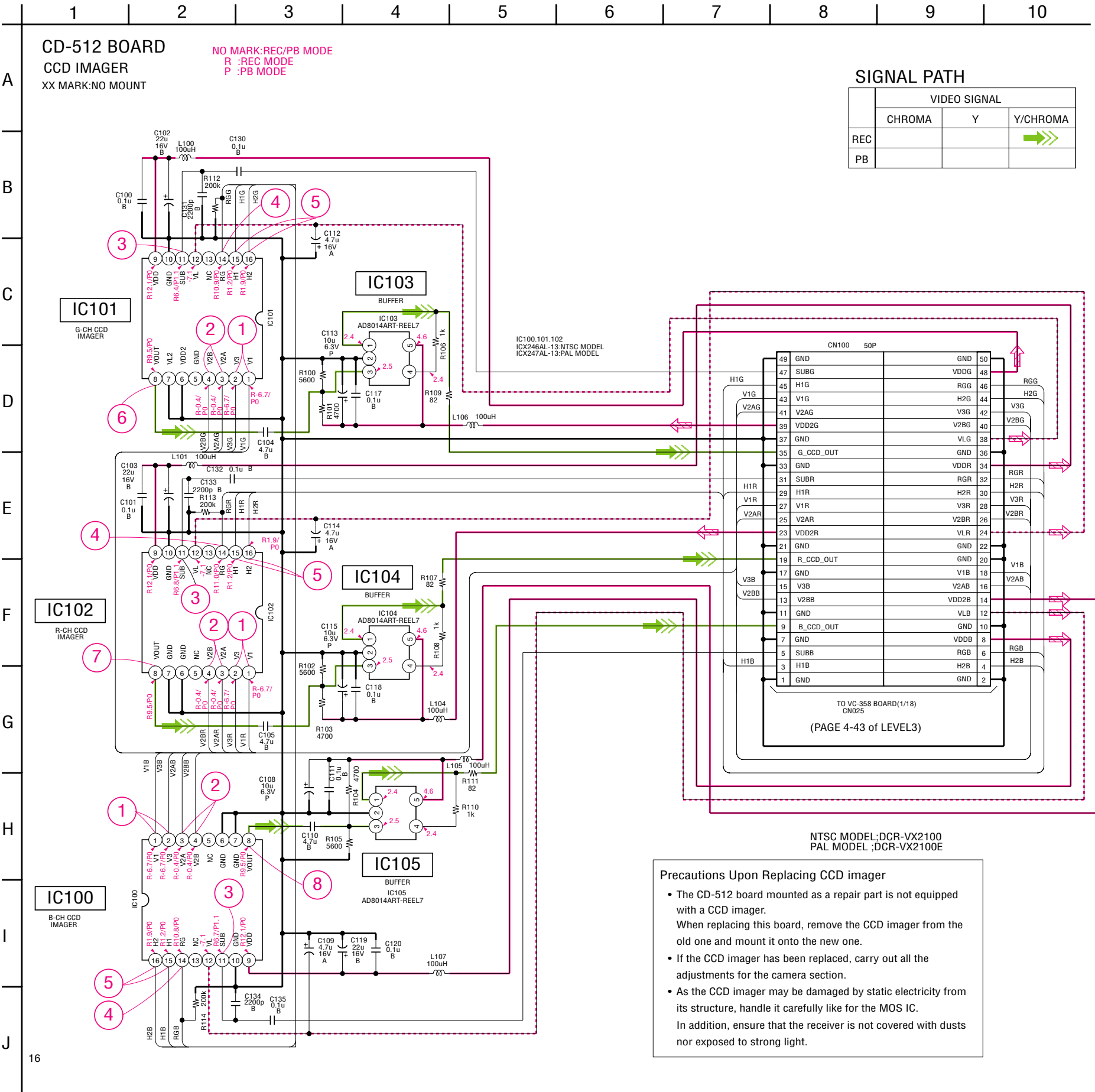
Les composants identifiés par une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

4-2. SCHEMATIC DIAGRAMS

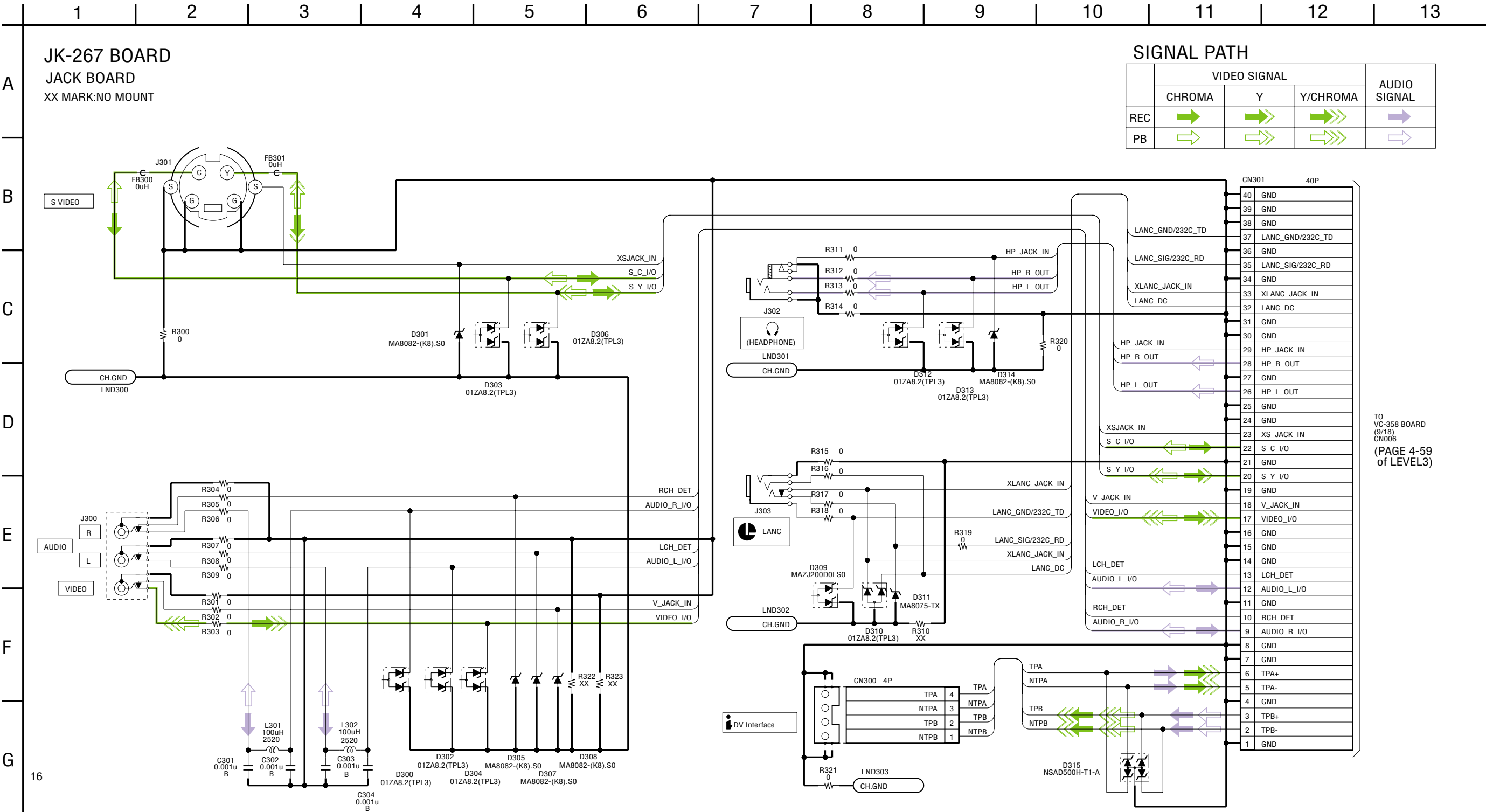
CD-512 PRINTED WIRING BOARD

4-2. SCHEMATIC DIAGRAMS

For Schematic Diagram
• Refer to page 4-81 for printed wiring board.



For Schematic Diagram
• Refer to page 4-83 for printed wiring board.



SIGNAL PATH

	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA	
REC	➡	➡➡	➡➡➡	➡
PB	➡	➡➡	➡➡➡	➡

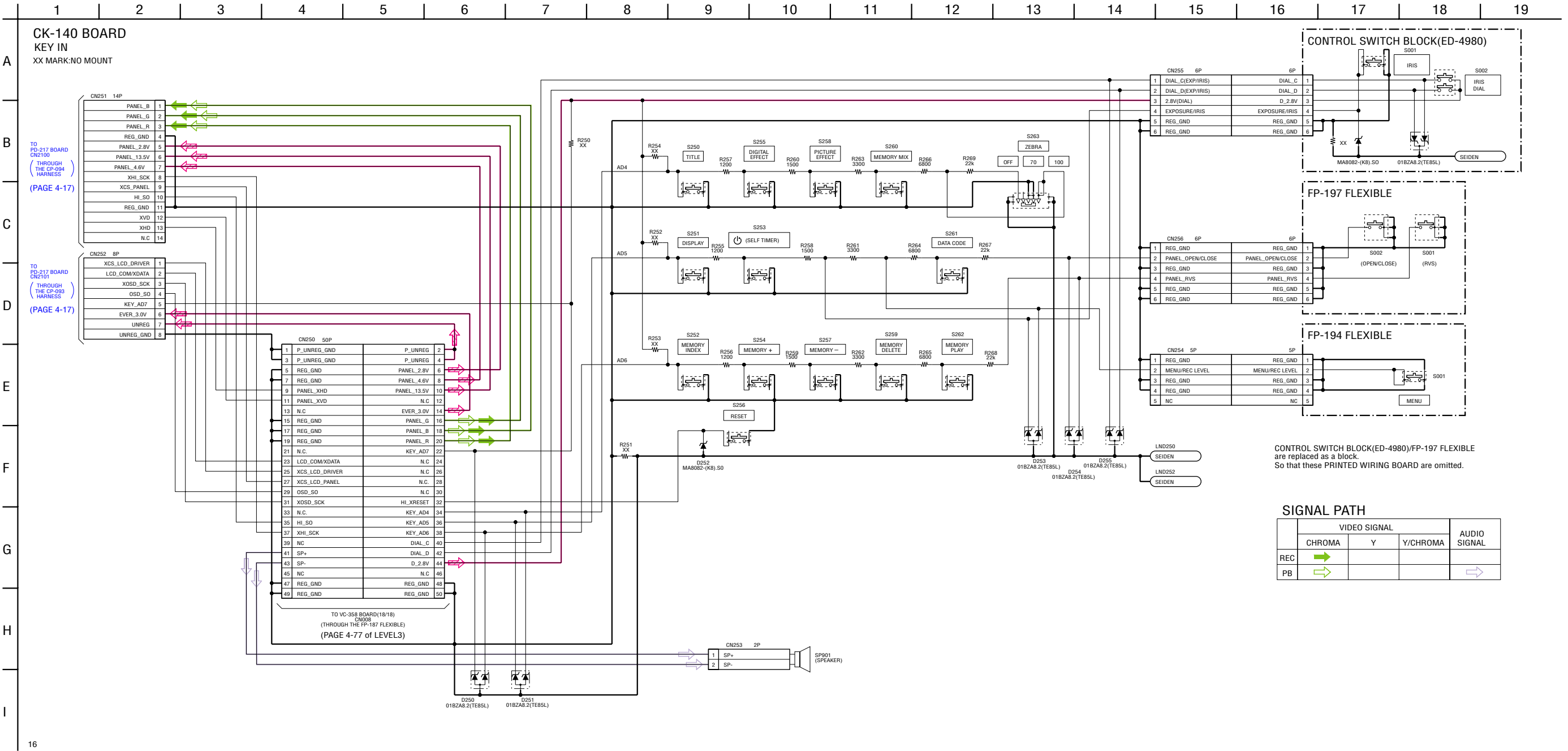
4-2. SCHEMATIC DIAGRAMS

CK-140 BOARD

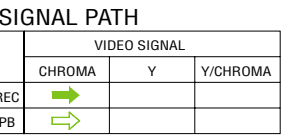
FP-194 BOARD

For Schematic Diagram

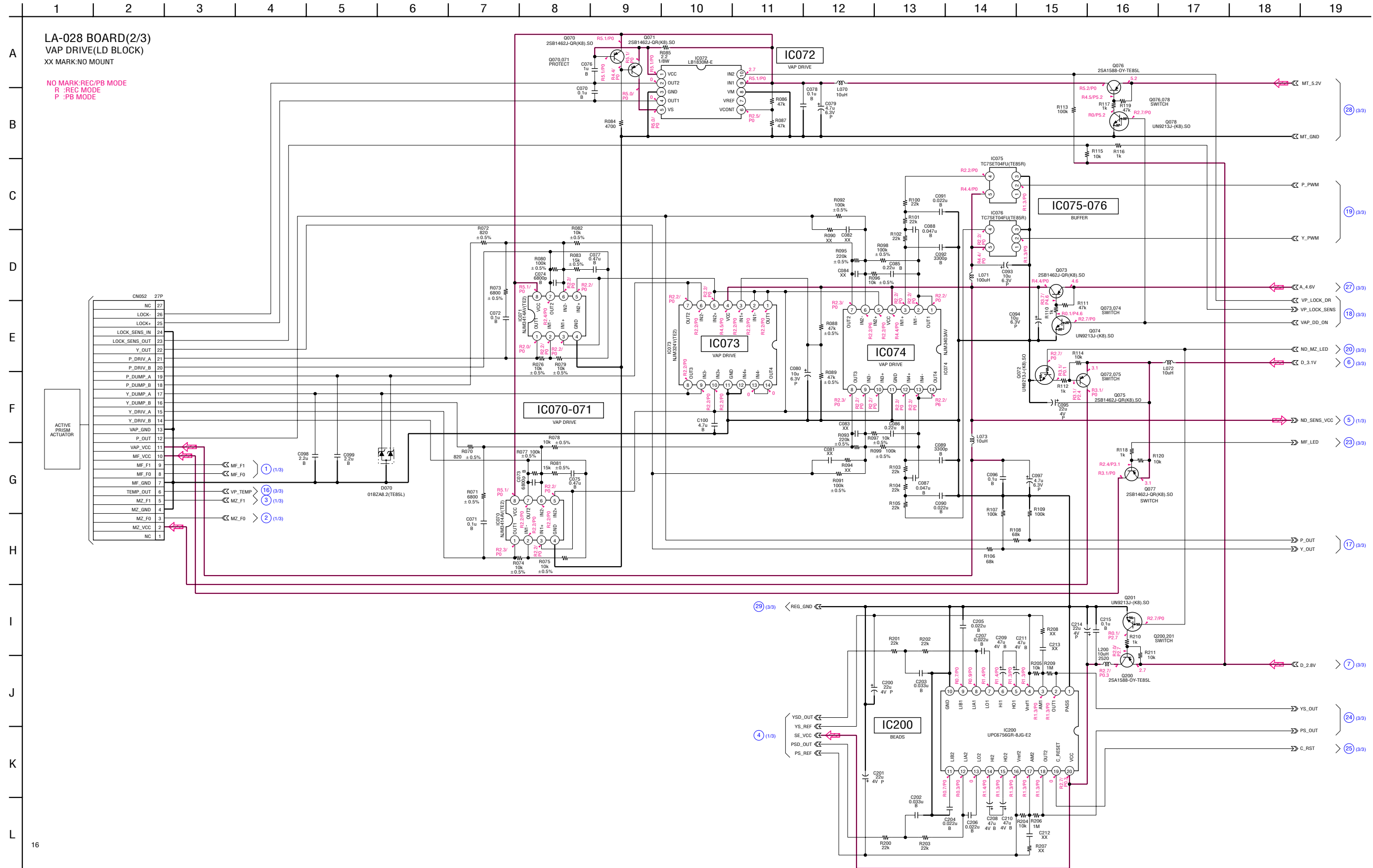
- Refer to page 4-85 for printed wiring board of CK-140.
- Refer to page 4-88 for printed wiring board of FP-194.



- Refer to page 4-87 for printed wiring board.



NO MARK:REC/PB MODE
R :REC MODE
P :PB MODE



4-2. SCHEMATIC DIAGRAMS

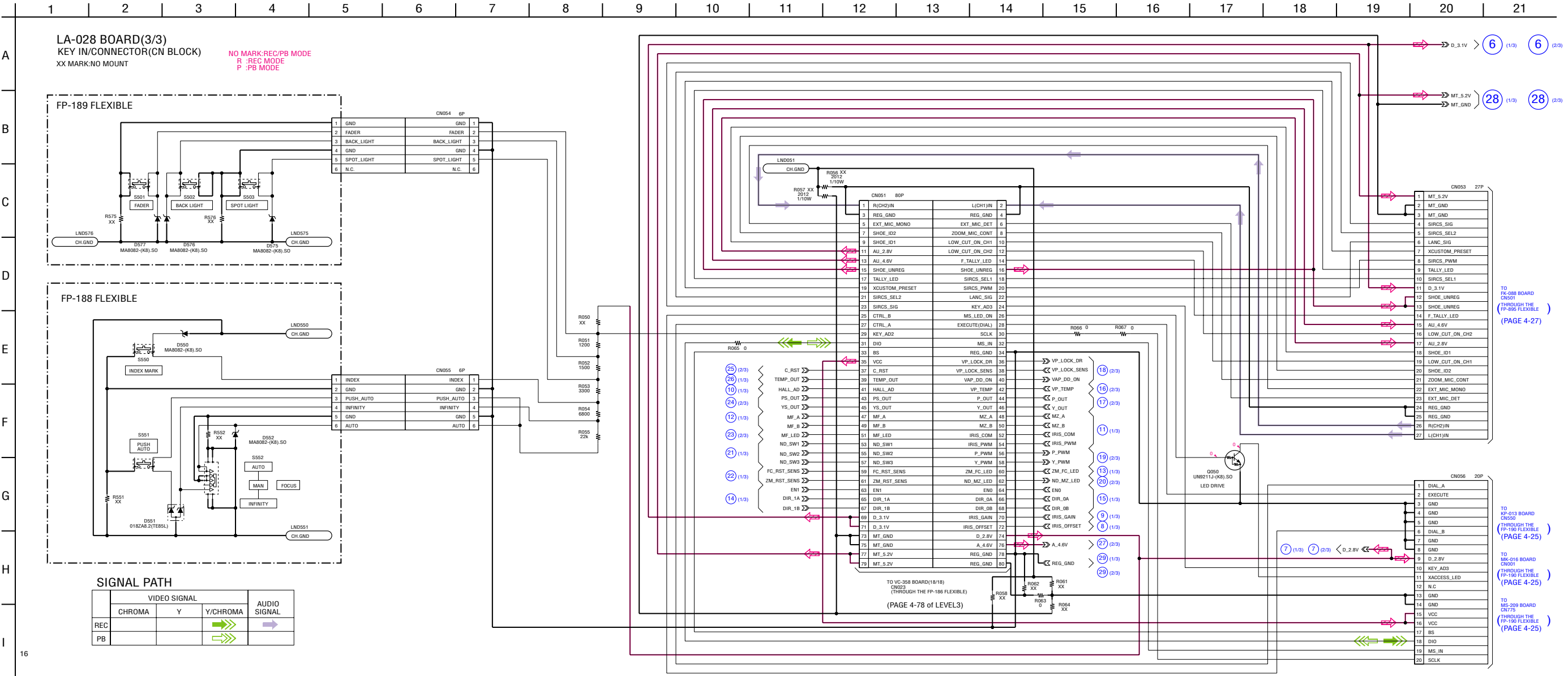
LA-028 BOARD

FP-188 BOARD

FP-189 BOARD

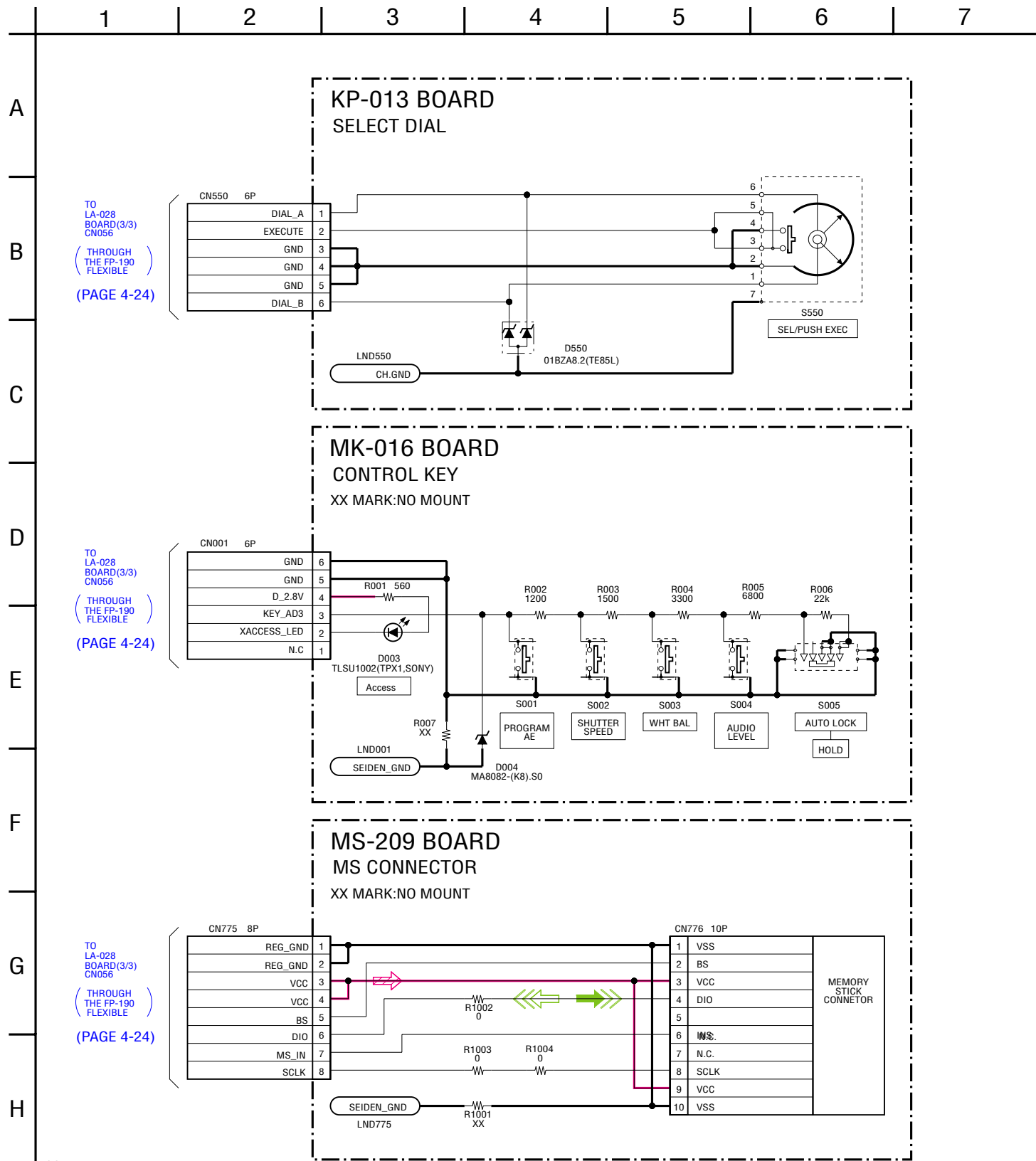
For Schematic Diagram

- Refer to page 4-89 for printed wiring board of LA-028.
- Refer to page 4-91 for printed wiring board of FP-188 and FP-189.



For Schematic Diagram

- Refer to page 4-93 for printed wiring board of MS-209.
- Refer to page 4-95 for printed wiring board of KP-013 and MK-016.

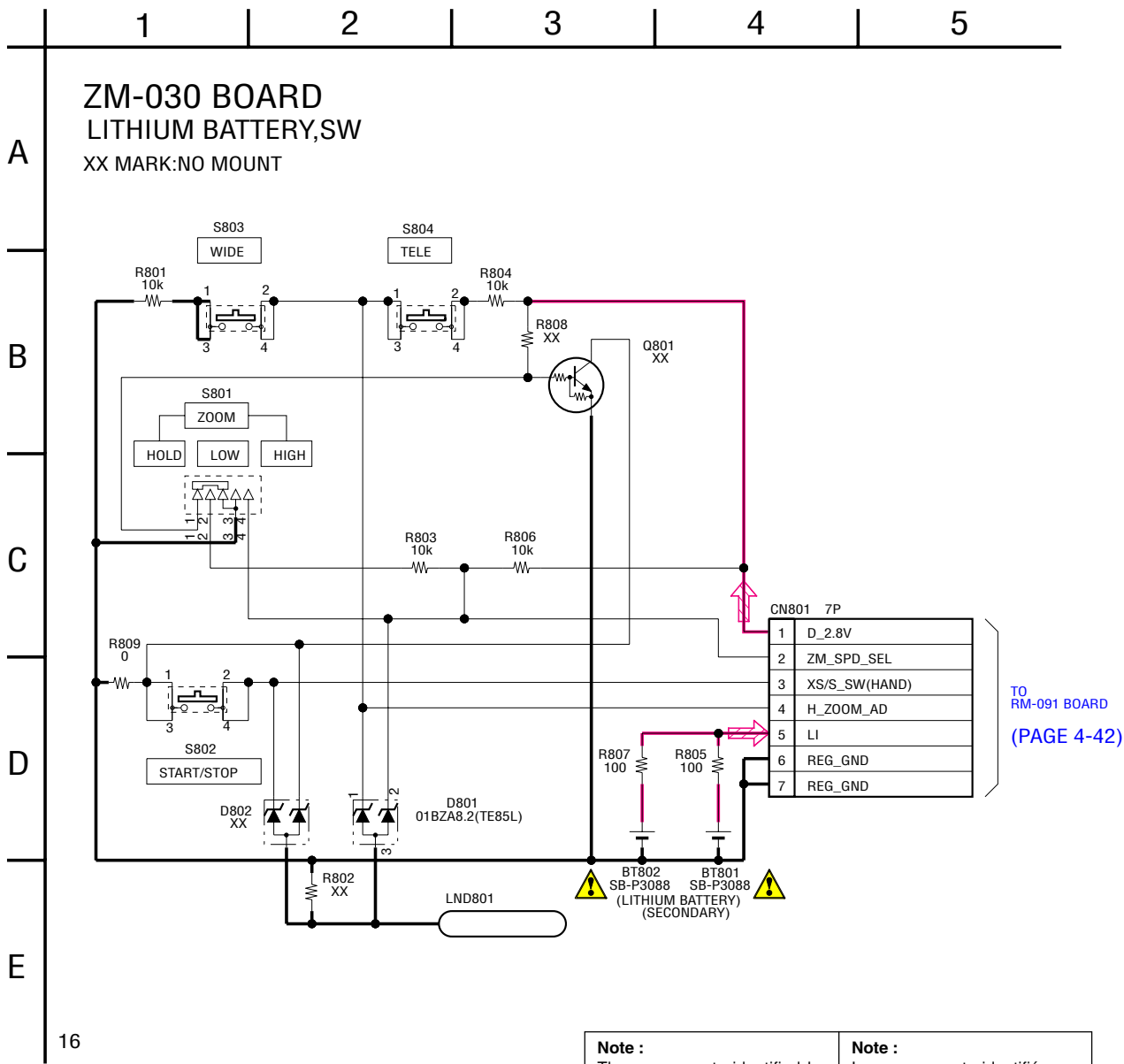


SIGNAL PATH

	VIDEO SIGNAL		
	CHROMA	Y	Y/CHROMA
REC			➡➡➡
PB			➡➡➡

For Schematic Diagram

- Refer to page 4-109 for printed wiring board.



Note :

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

Note :

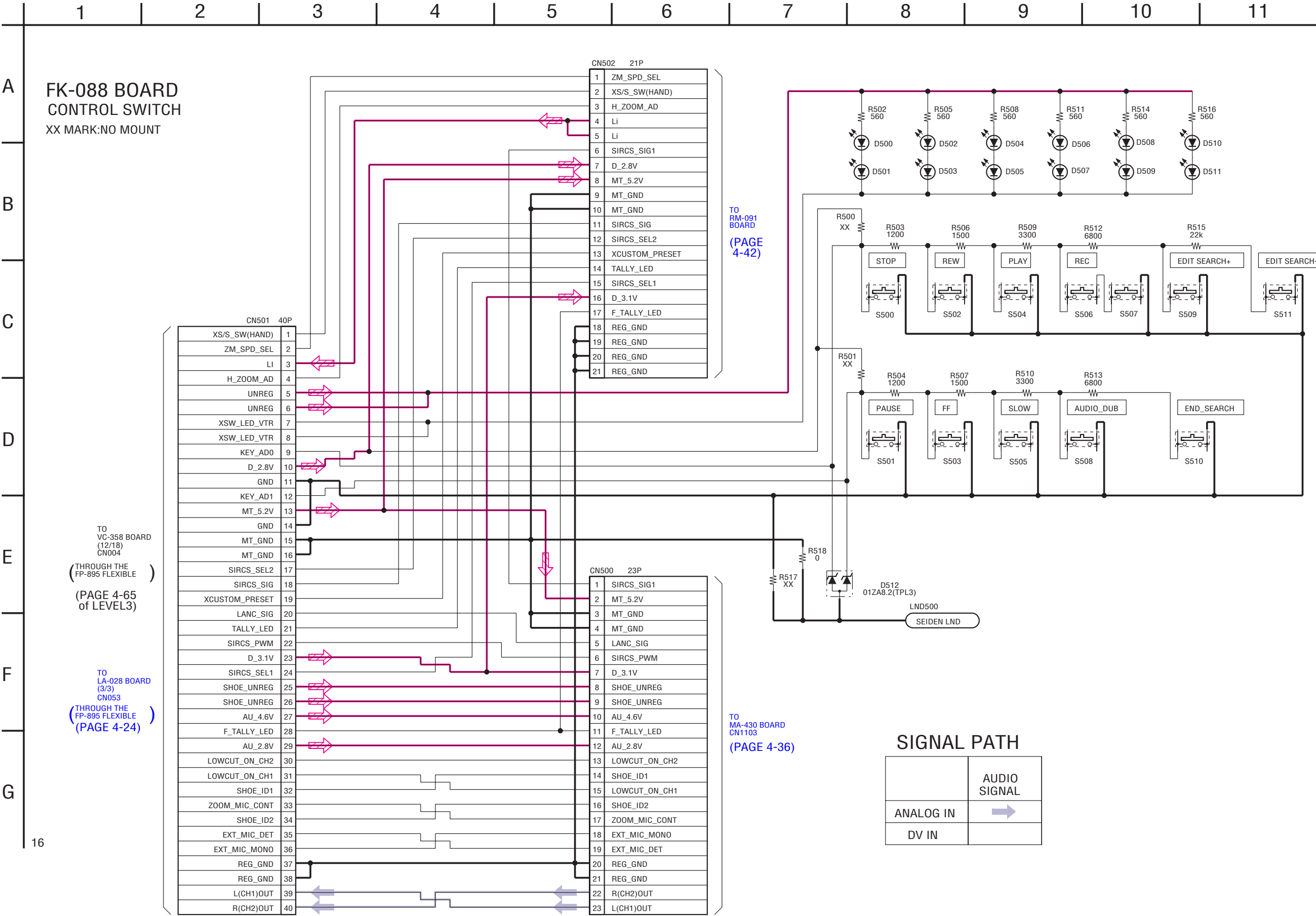
Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

4-2. SCHEMATIC DIAGRAMS

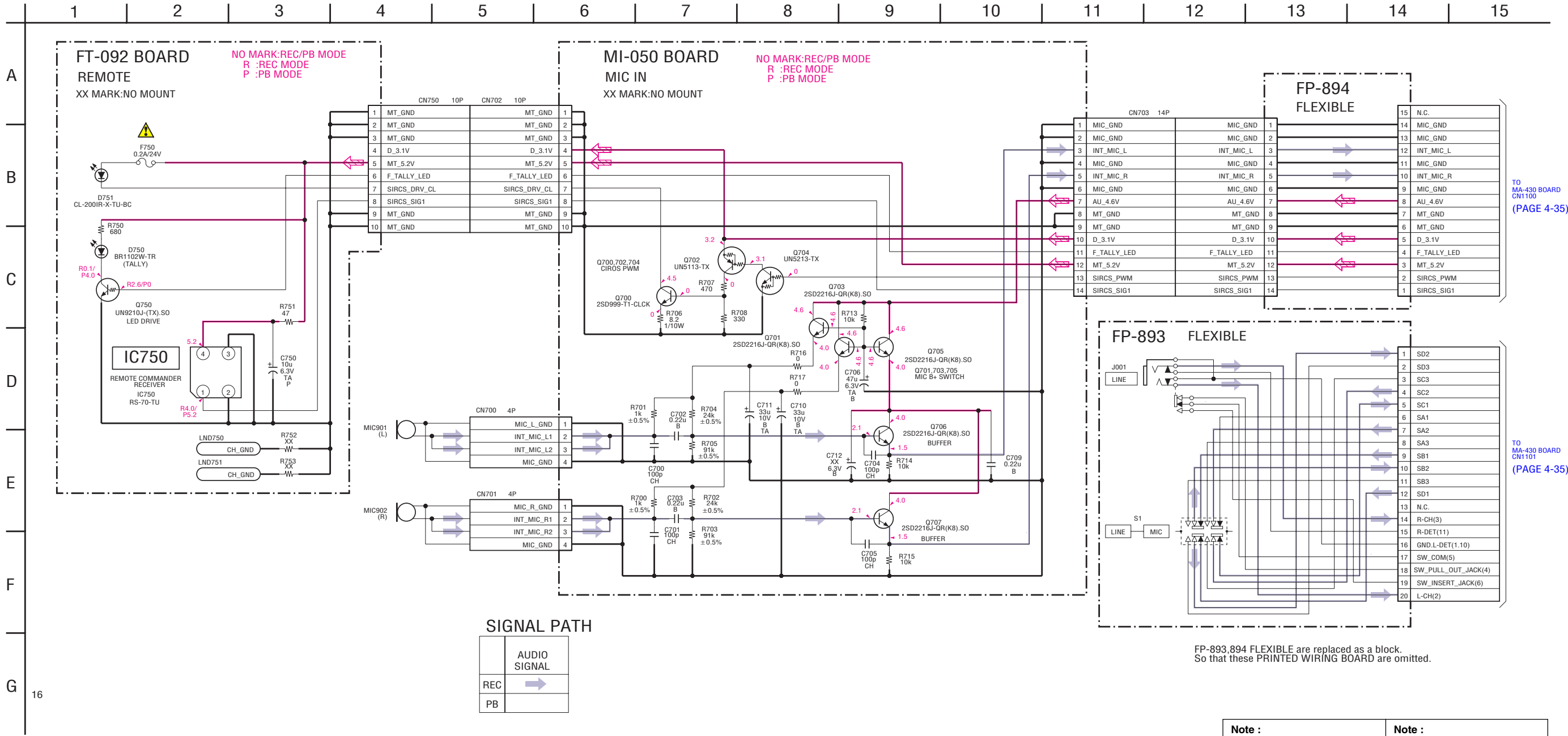
FK-088 PRINTED WIRING BOARD

For Schematic Diagram

• Refer to page 4-97 for printed wiring board.



For Schematic Diagram
• Refer to page 4-99 for printed wiring board of MI-050, FT-092.

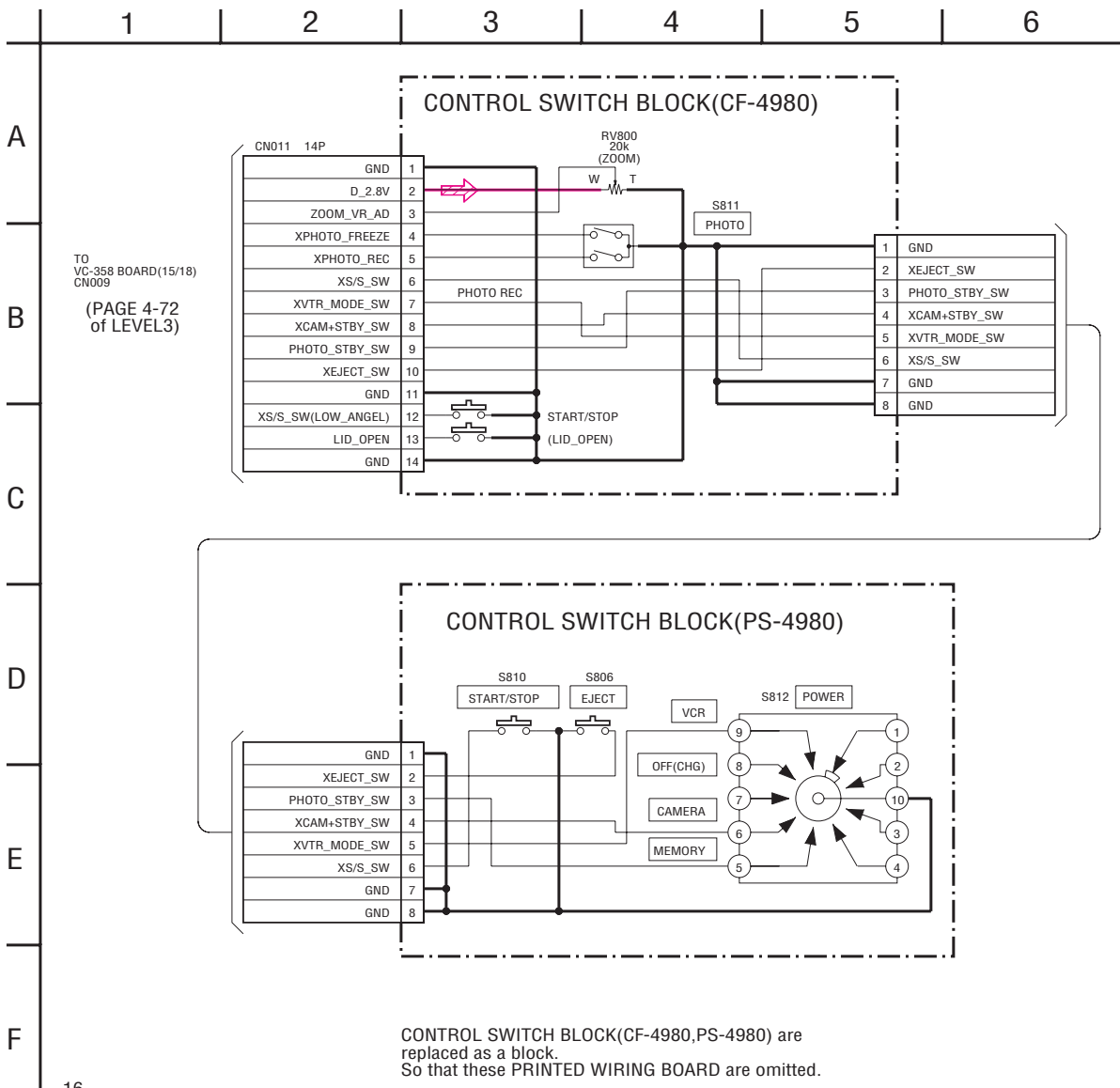
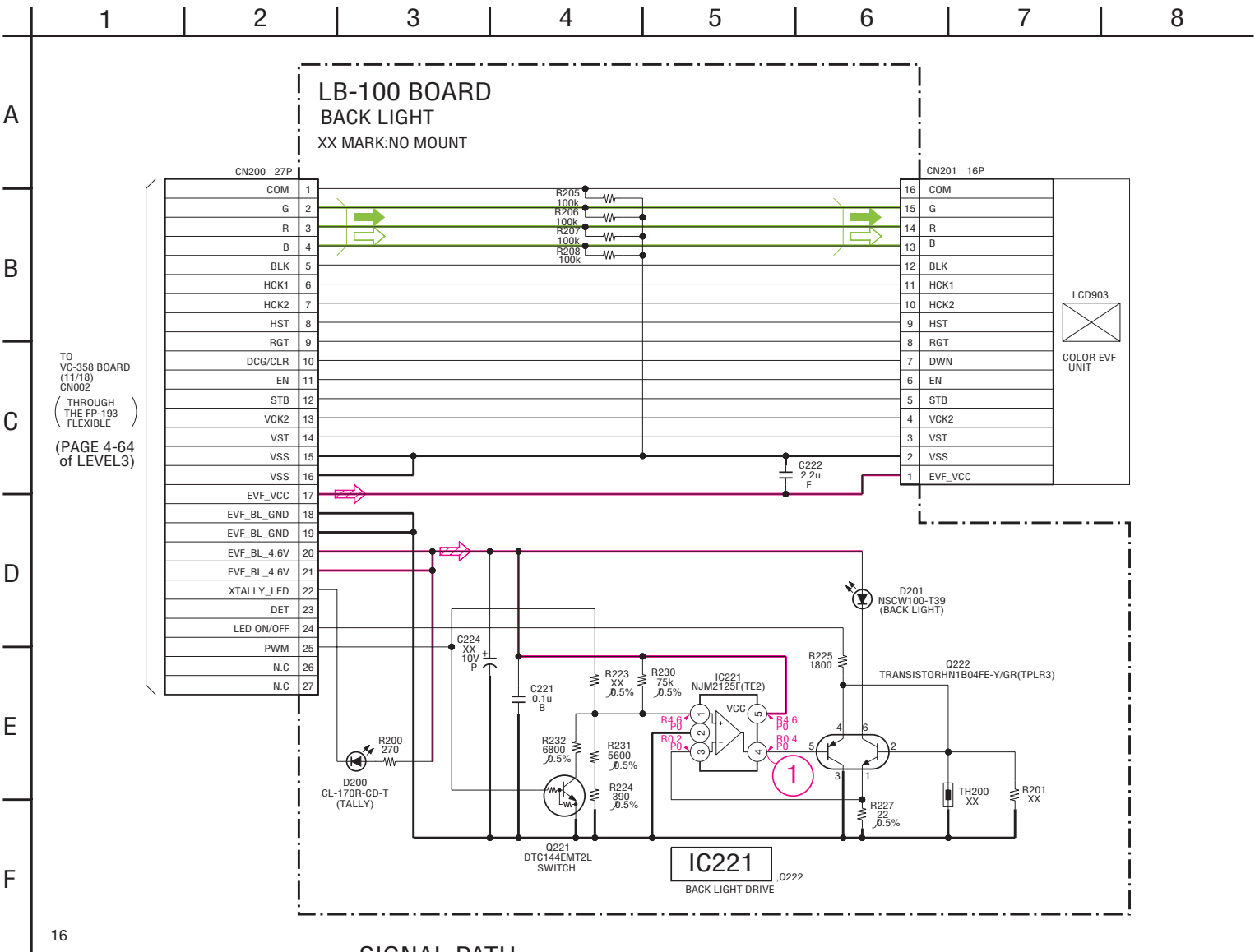


4-2. SCHEMATIC DIAGRAMS

LB-100 PRINTED WIRING BOARD

For Schematic Diagram

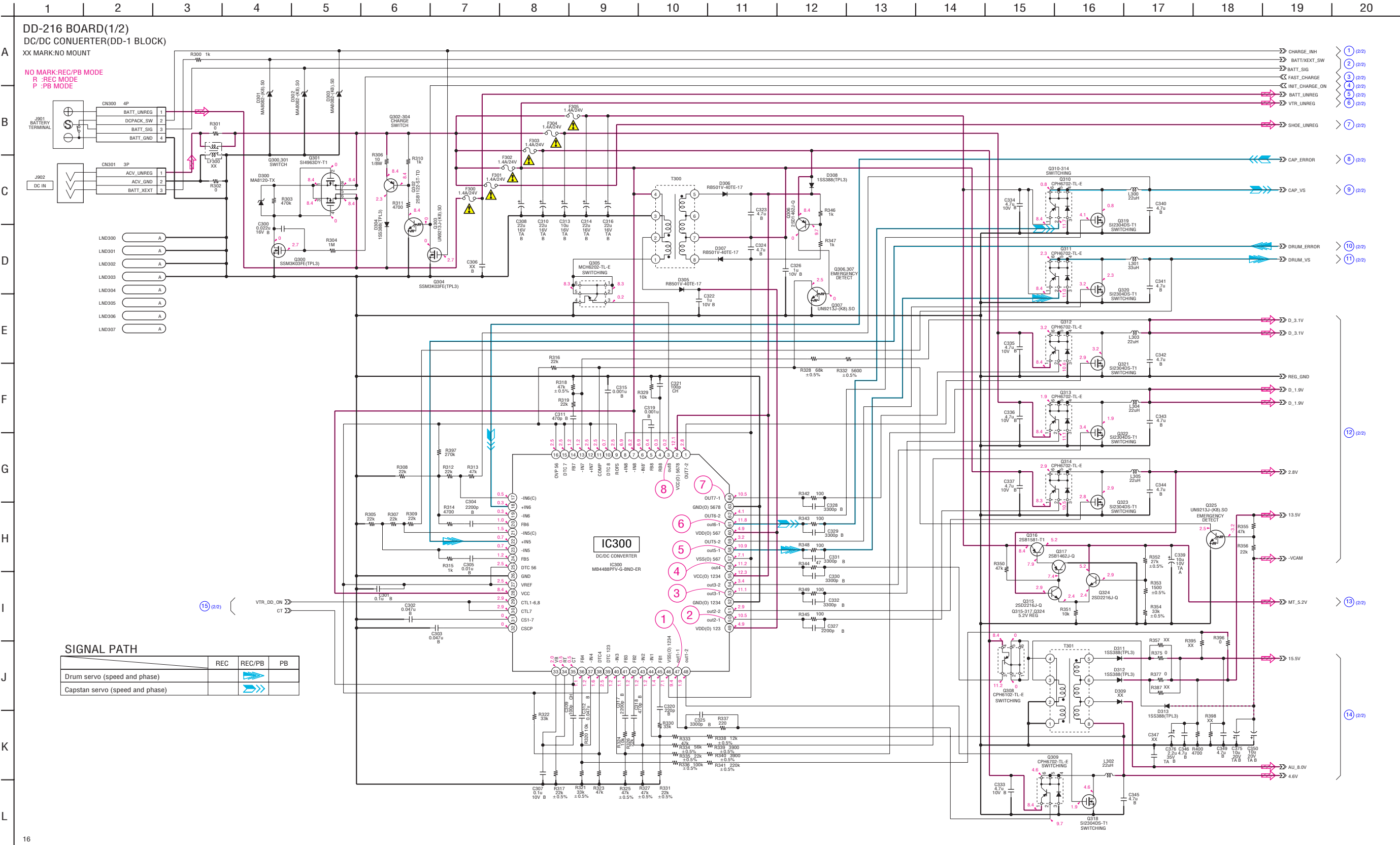
• Refer to page 4-101 for printed wiring board of LB-100.



- Refer to page 4-103 for printed wiring board of HL-013 and FP-196.



For Schematic Diagram
• Refer to page 4-107 for printed wiring board.

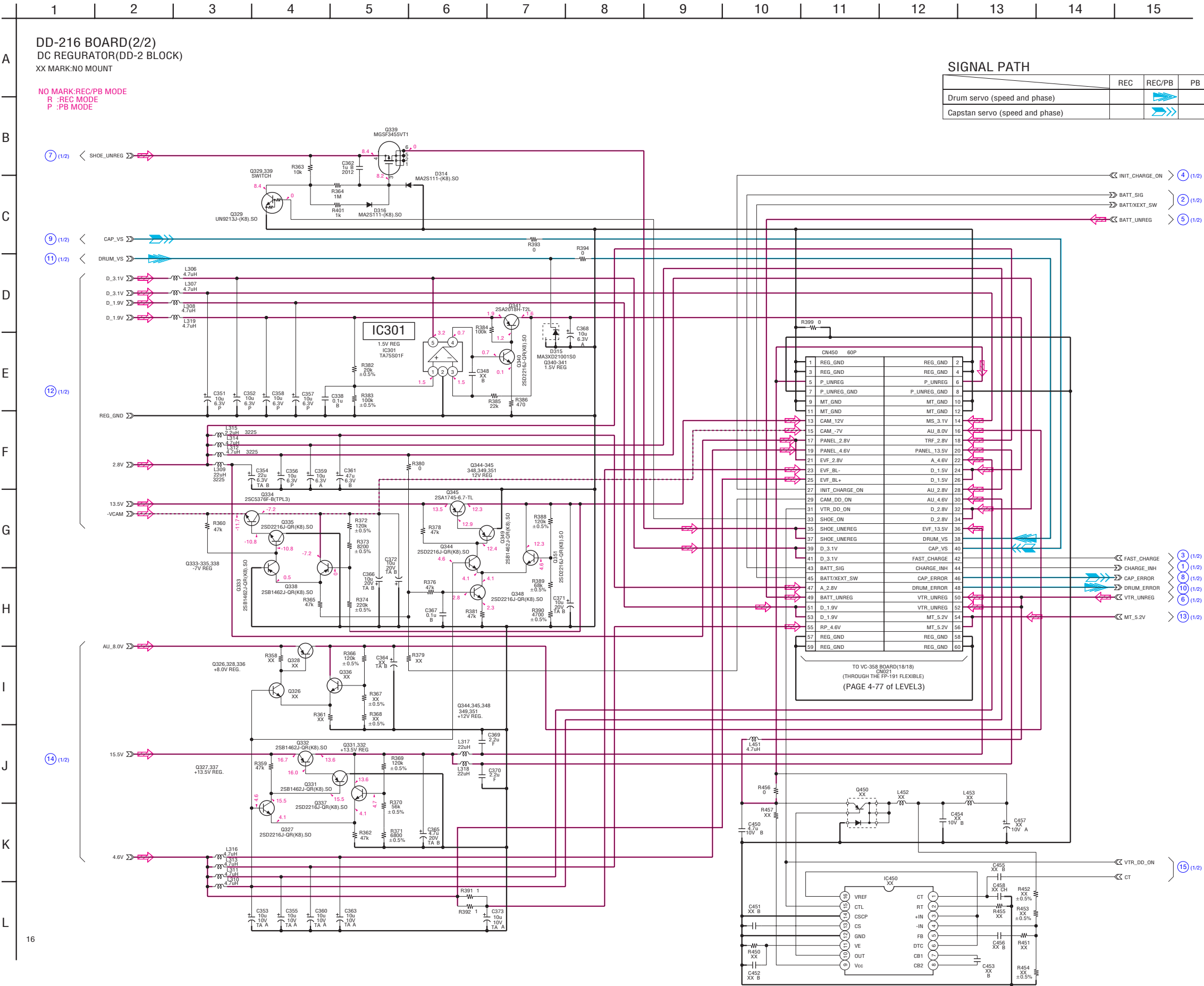


4-2. SCHEMATIC DIAGRAMS

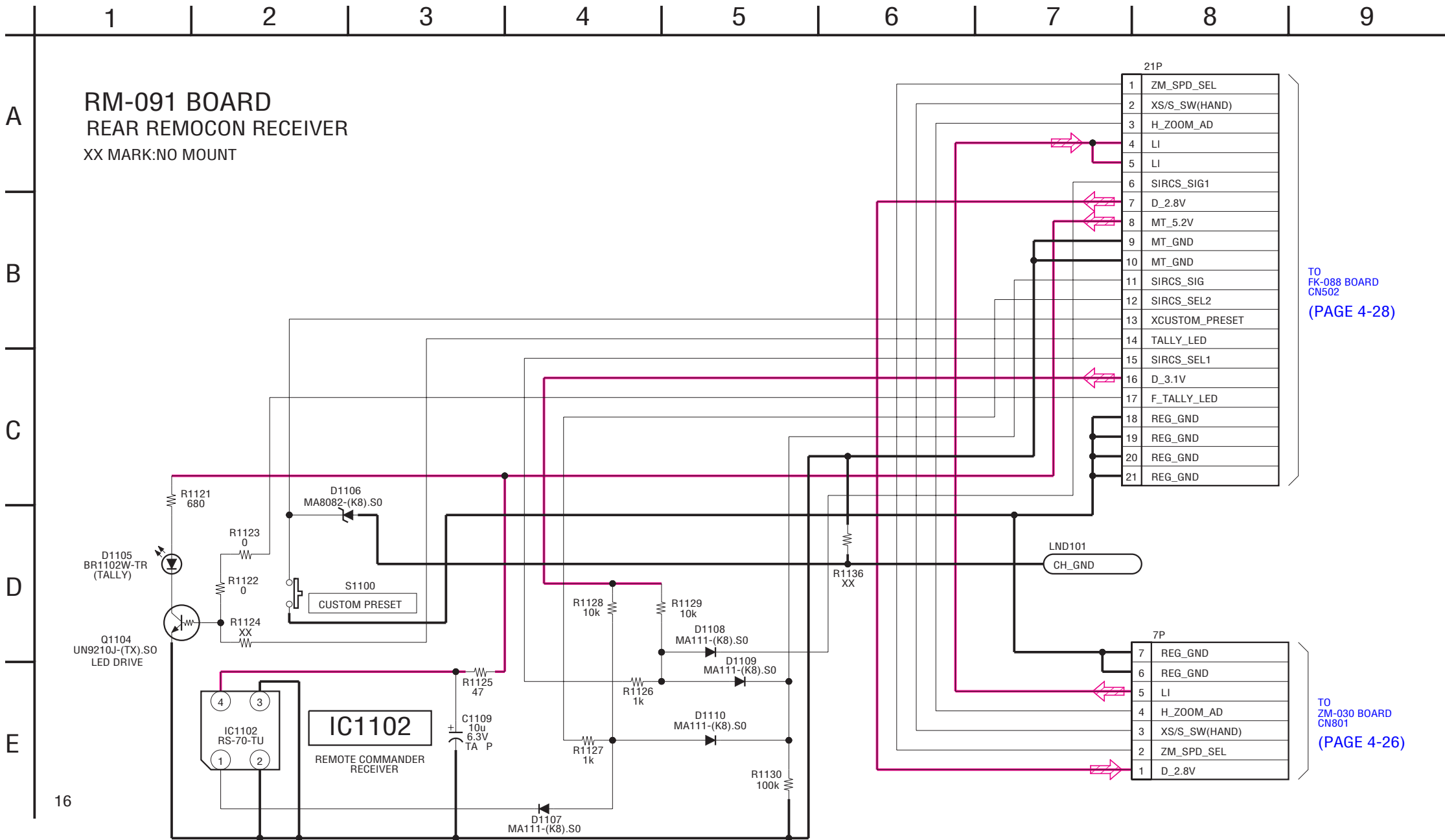
DD-216 PRINTED WIRING BOARD

For Schematic Diagram

• Refer to page 4-107 for printed wiring board.



For Schematic Diagram
• Refer to page 4-111 for printed wiring board.



Schematic diagrams of the FP-594 and VC-358 board are not shown.
Pages from 4-43 to 4-78 are not shown.

4-3. PRINTED WIRING BOARDS

Link

• CD-512 BOARD	• MK-016 BOARD
• JK-267 BOARD	• FK-088 BOARD
• CK-140 BOARD	• MI-050 BOARD
• PD-217 BOARD	• FT-092 BOARD
• FP-194 FLEXIBLE BOARD	• LB-100 BOARD
• LA-028 BOARD	• HL-013 BOARD
• SE-147 BOARD	• FP-196 FLEXIBLE BOARD
• FP-188 FLEXIBLE BOARD	• MA-430 BOARD
• FP-189 FLEXIBLE BOARD	• DD-216 BOARD
• MS-209 BOARD	• ZM-030 BOARD
• KP-013 BOARD	• RM-091 BOARD

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

4-3. PRINTED WIRING BOARDS

THIS NOTE IS COMMON FOR WIRING BOARDS

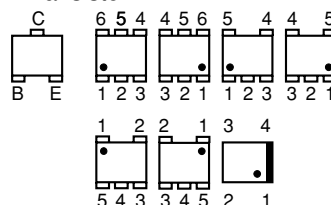
(In addition to this, the necessary note is printed in each block)

(For printed wiring boards)

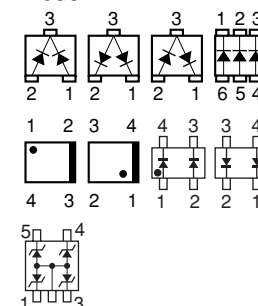
-  : Uses unleaded solder.
-  : Pattern from the side which enables seeing.
(The other layers' patterns are not indicated)
- Through hole is omitted.
- Circled numbers refer to waveforms.
- There are a few cases that the part printed on diagram isn't mounted in this model.
-  : panel designation

• Chip parts.

Transistor



Diode

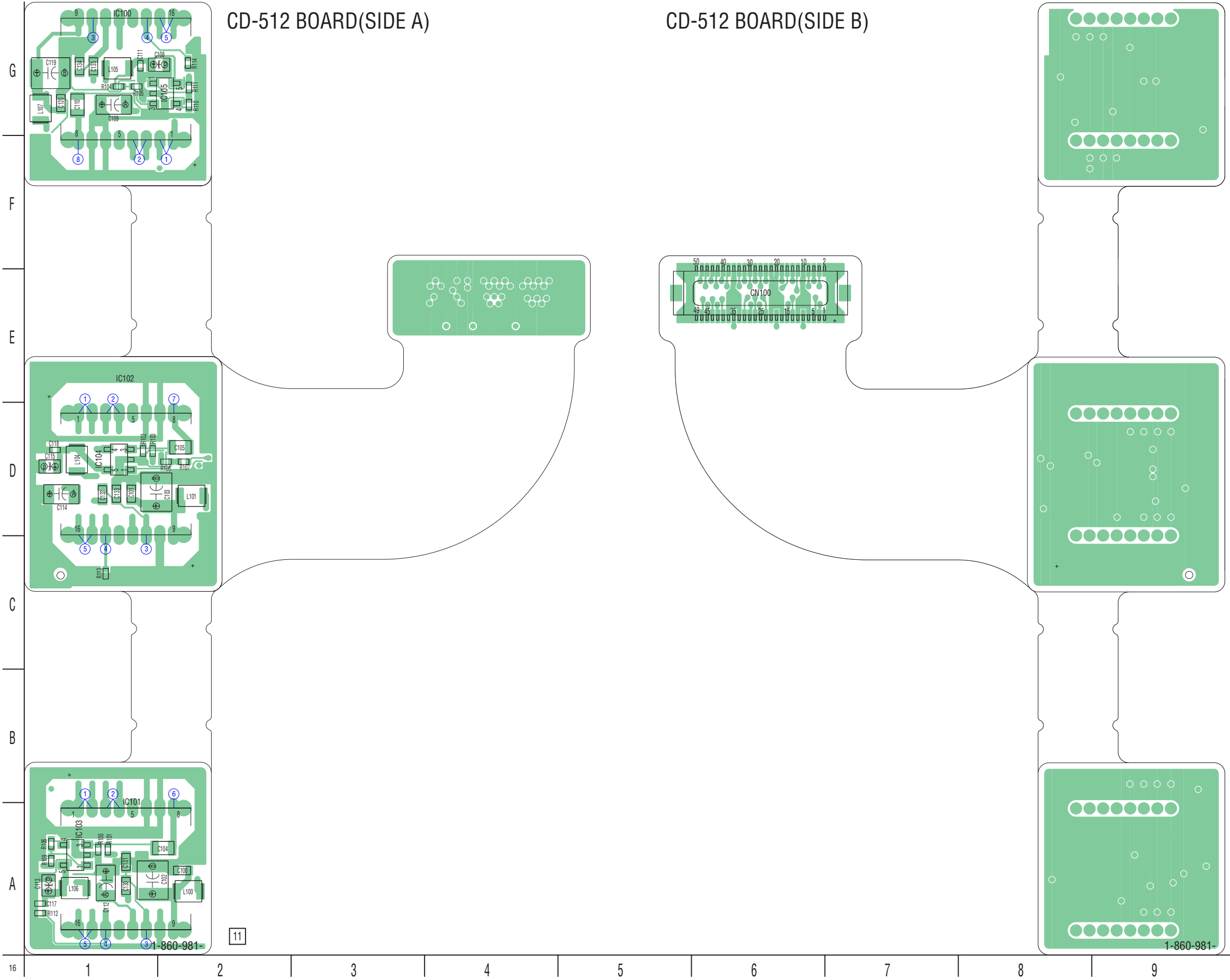


BOARD INFORMATION

board name	waveform (shown on page)	parts location (shown on page)	pattern		CSP IC
			number of layers	layers not shown	
CD-512	4-119	4-124	4	2 to 3	—
JK-267	—	4-124	4	2 to 3	—
CK-140	—	4-124	6	2 to 5	—
PD-217	4-119	4-124	4	2 to 4	—
FP-194	—	—	1	—	—
LA-028	—	4-125	6	2 to 5	—
SE-147	—	4-125	6	2 to 5	—
FP-188	—	—	1	—	—
FP-189	—	—	1	—	—
MS-209	—	4-125	4	2 to 3	—
KP-013	—	4-125	6	2 to 5	—
MK-016	—	4-125	6	2 to 5	—
FK-088	—	4-125	6	2 to 5	—
MI-050	—	4-125	6	2 to 5	—
FT-092	—	4-125	6	2 to 5	—
LB-100	4-120	4-126	4	2 to 3	—
HL-013	4-120	4-126	6	2 to 6	—
FP-196	—	—	1	—	—
MA-430	—	4-126	4	2 to 3	—
DD-216	4-120	4-126	6	2 to 5	—
ZM-030	—	4-126	6	2 to 5	—
RM-091	—	4-126	4	2 to 3	—
FP-594	—	—	1	—	—
VC-358	4-121 to 123	4-127, 128	8	2 to 7	IC301, 361, 501, 1104, 1403, 1407, 1408, 1409

4-3. PRINTED WIRING BOARDS

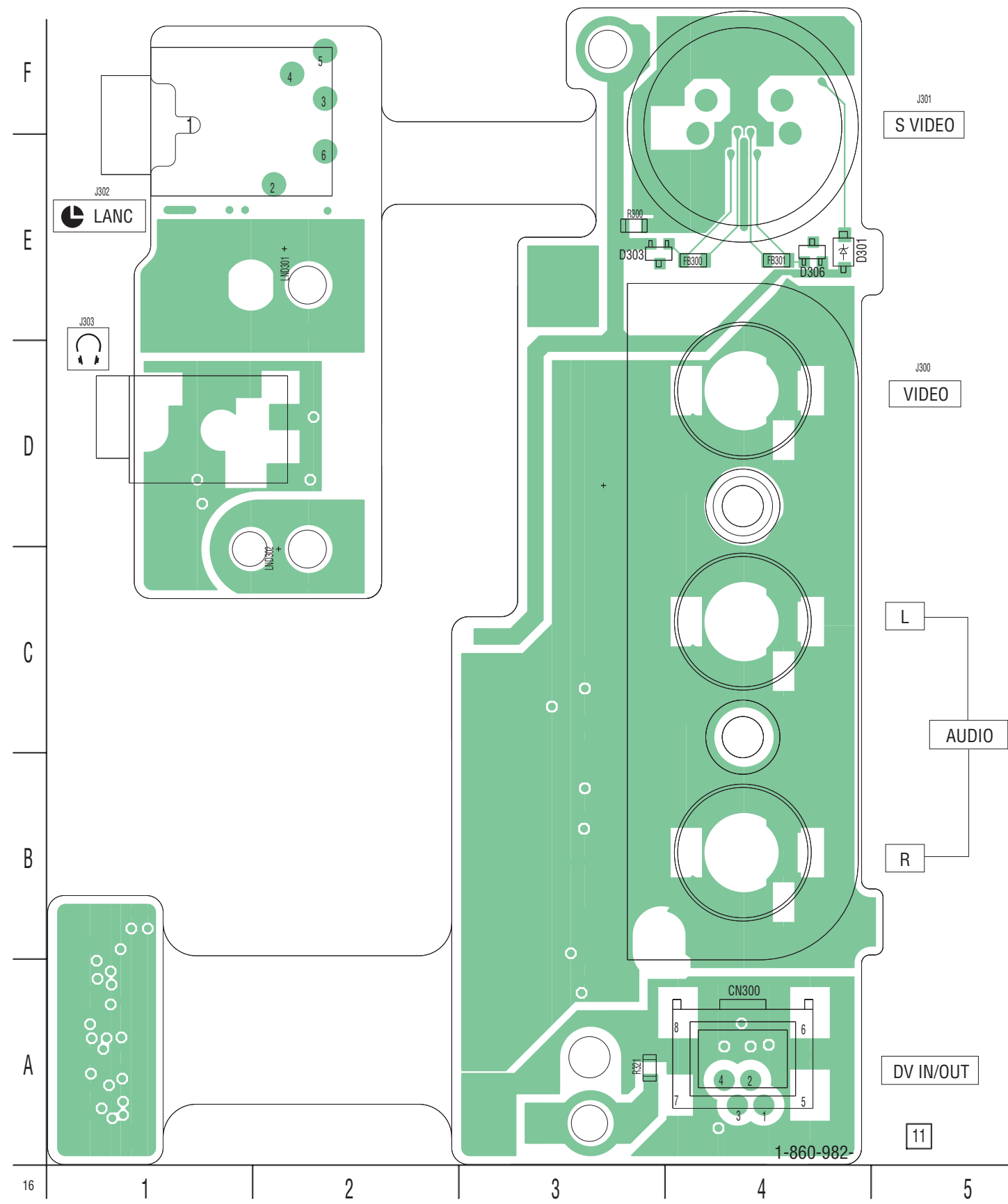
• Refer to page 4-79 for common note for printed wiring board. •  : Uses unleaded solder.



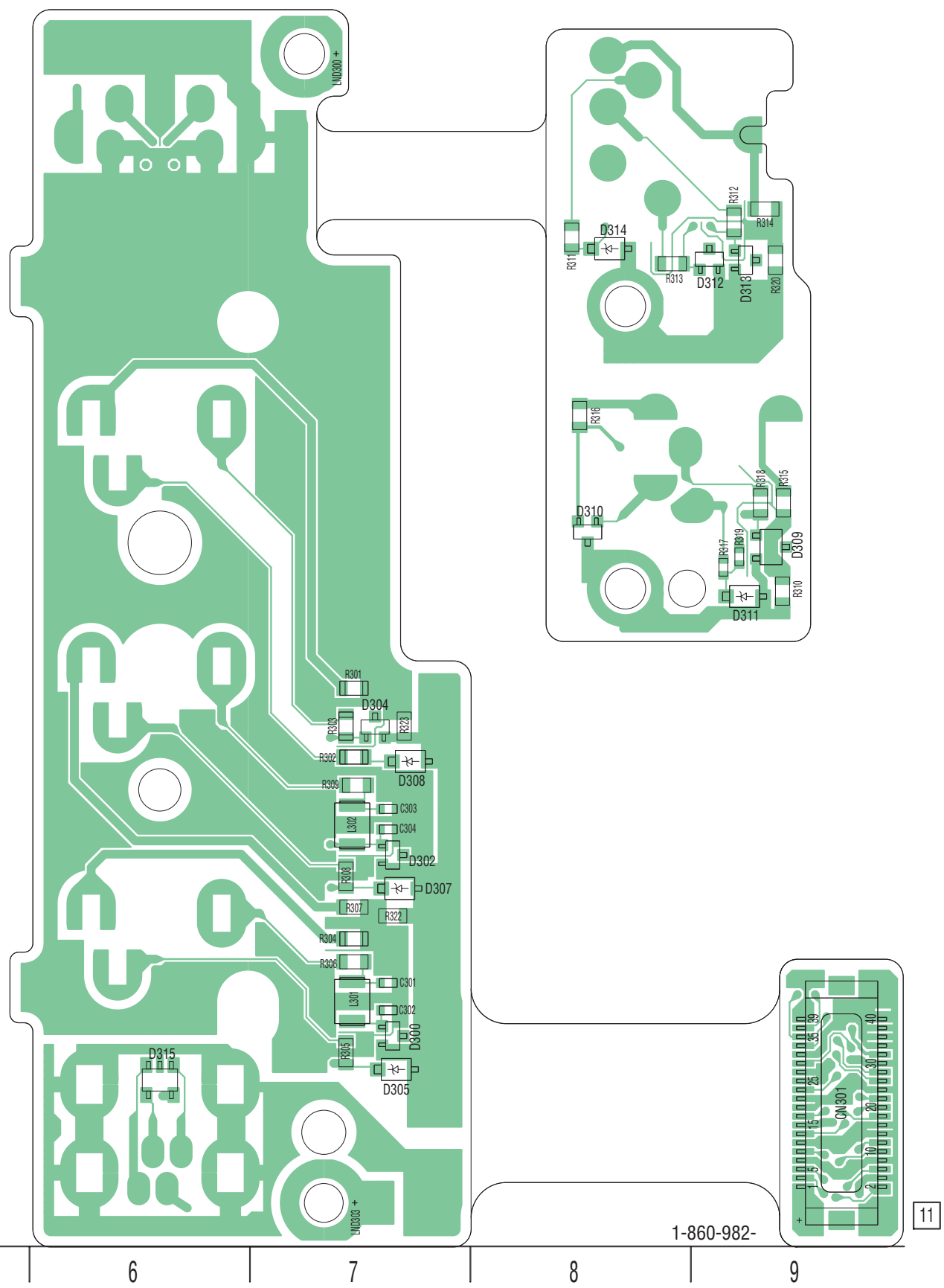
• Refer to page 4-79 for common note for printed wiring board.

•  : Uses unleaded solder.

JK-267 BOARD(SIDE A)

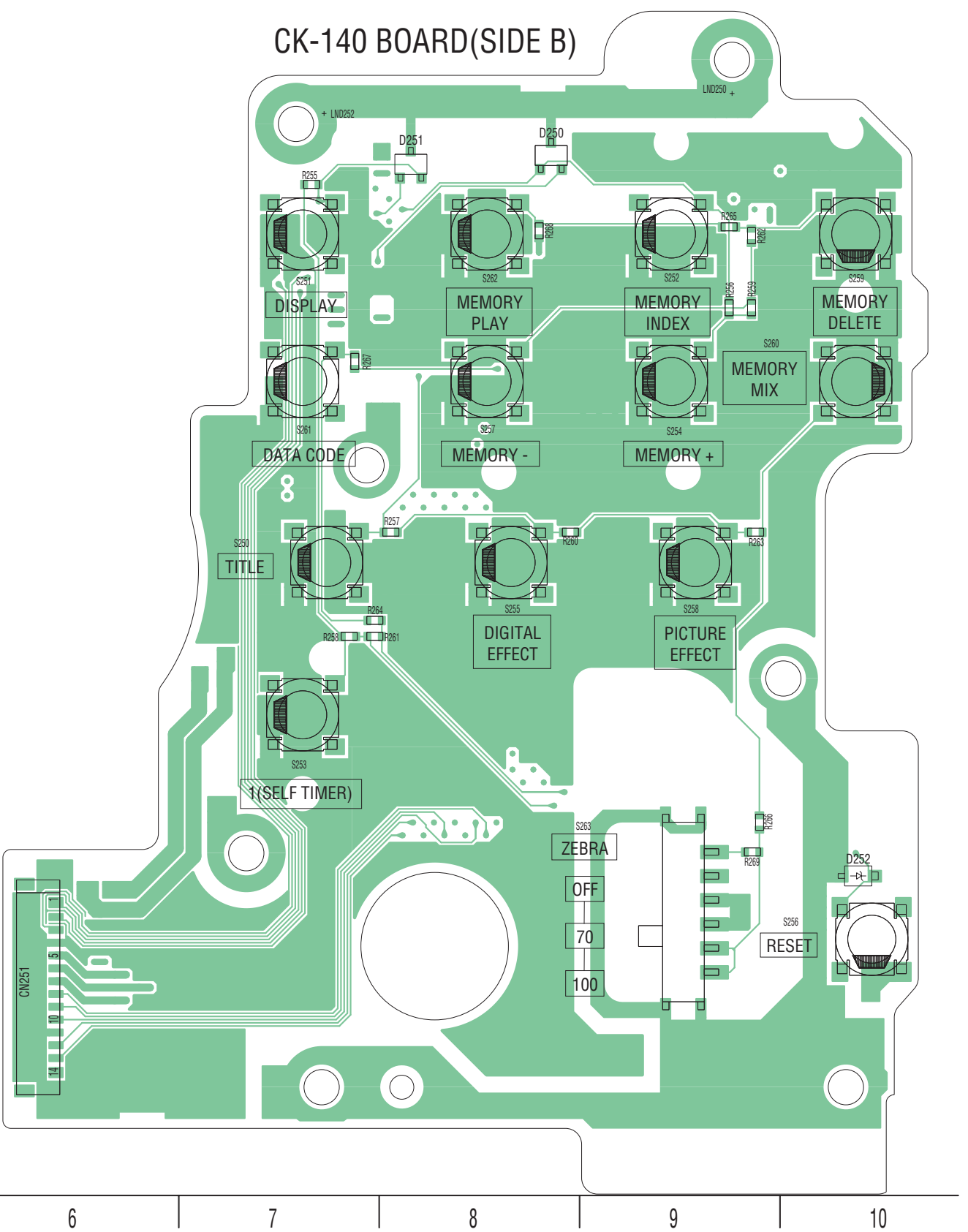
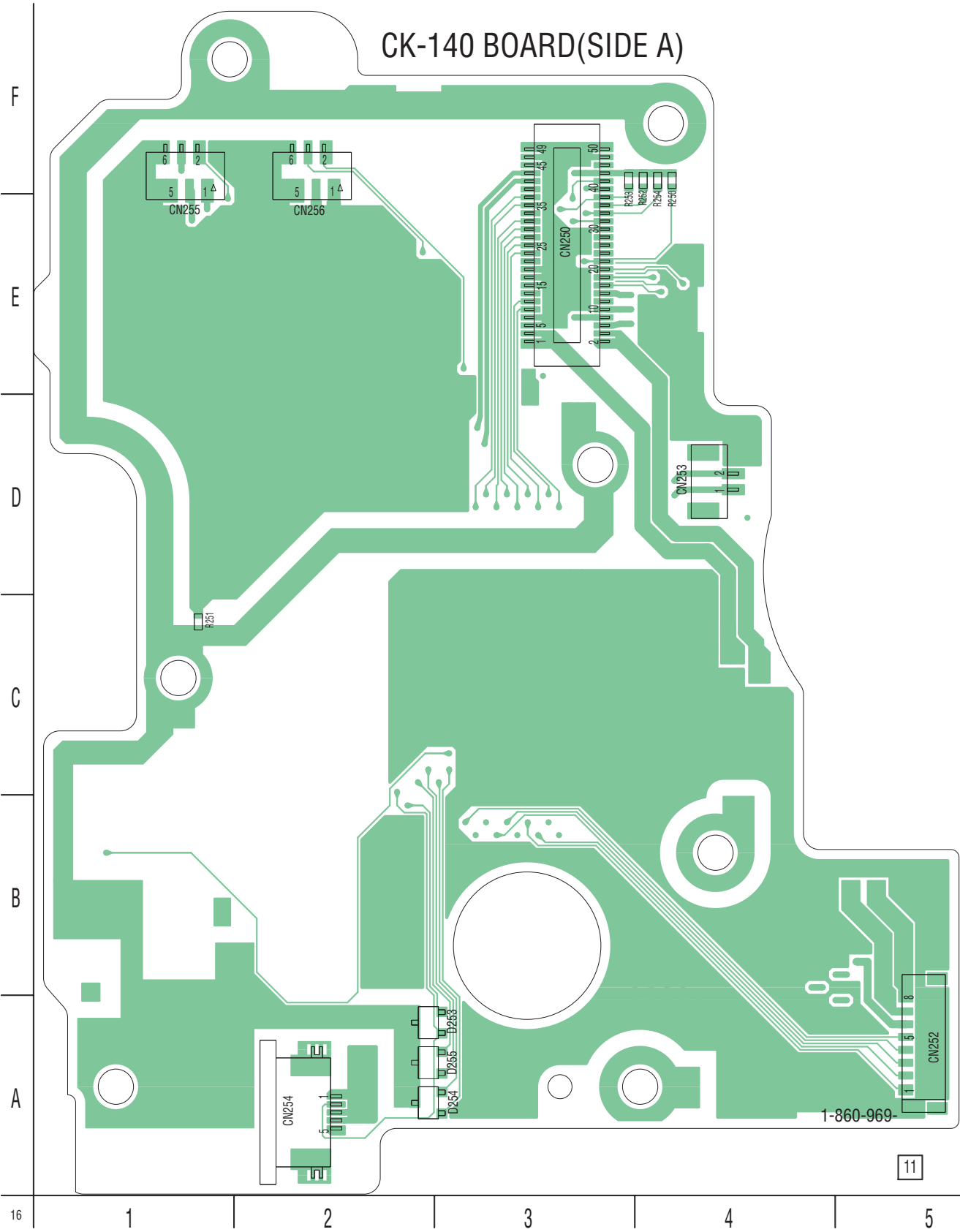


JK-267 BOARD(SIDE B)



• Refer to page 4-79 for common note for printed wiring board.

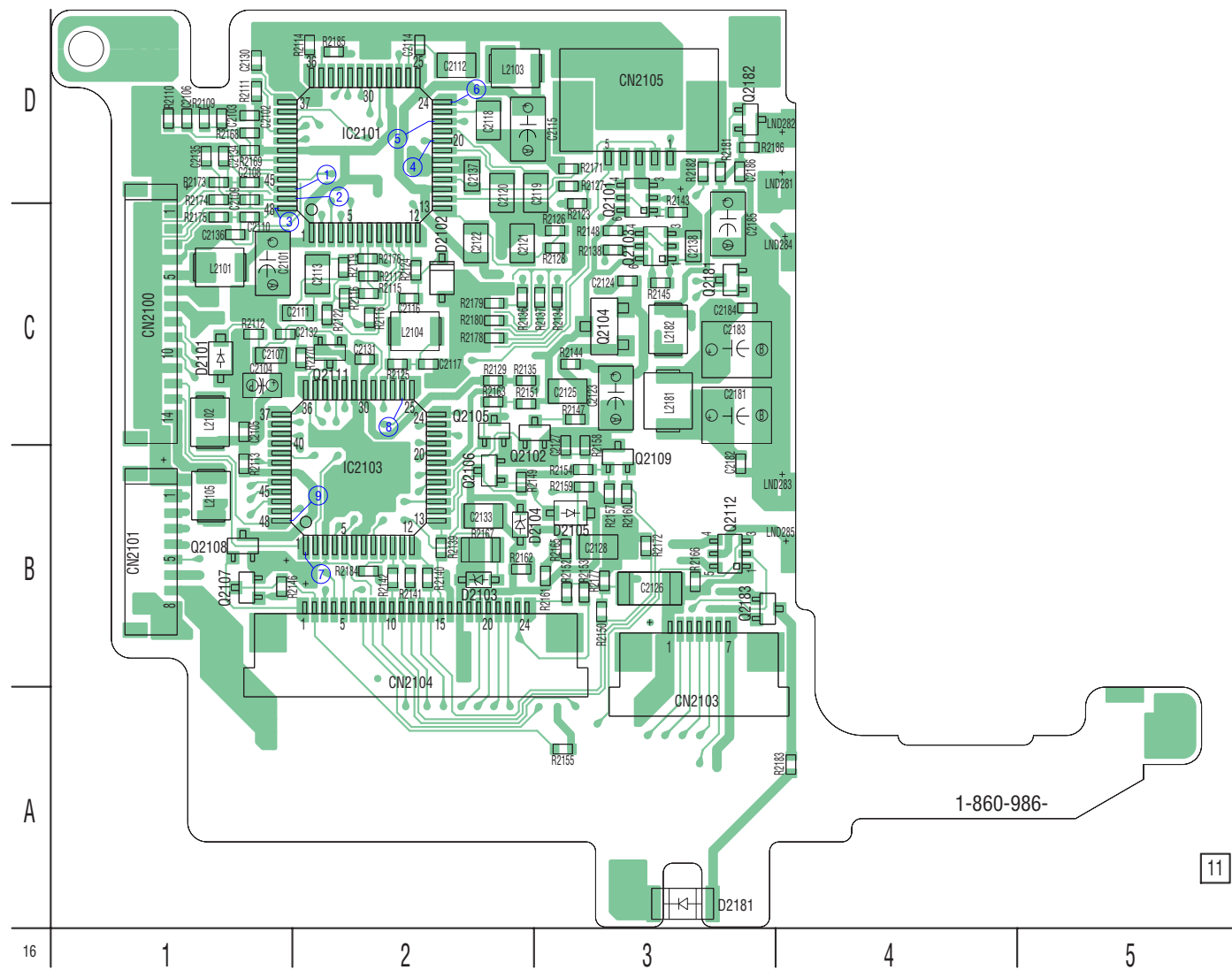
•  : Uses unleaded solder.



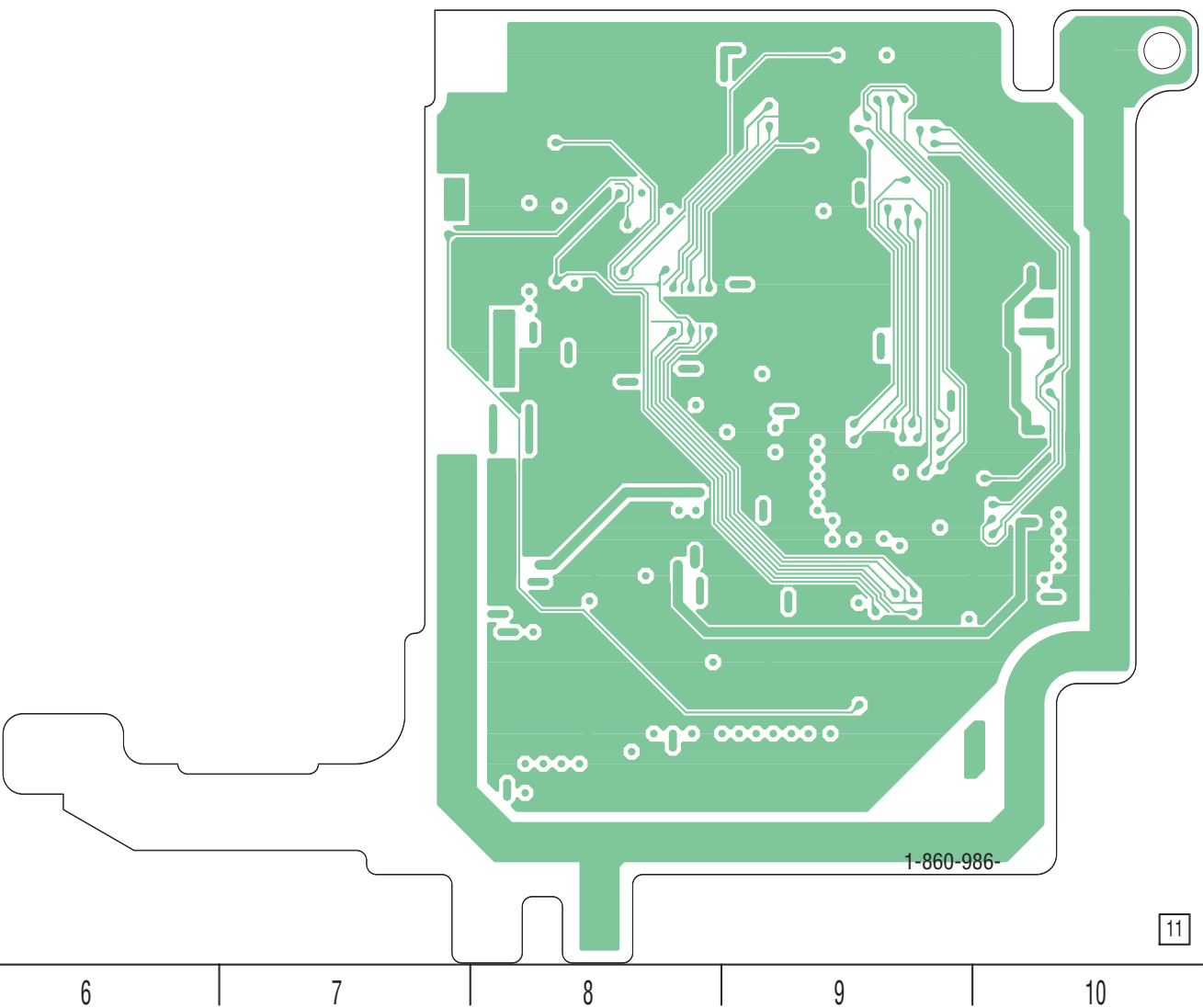
• Refer to page 4-79 for common note for printed wiring board.

-  : Uses unleaded solder.

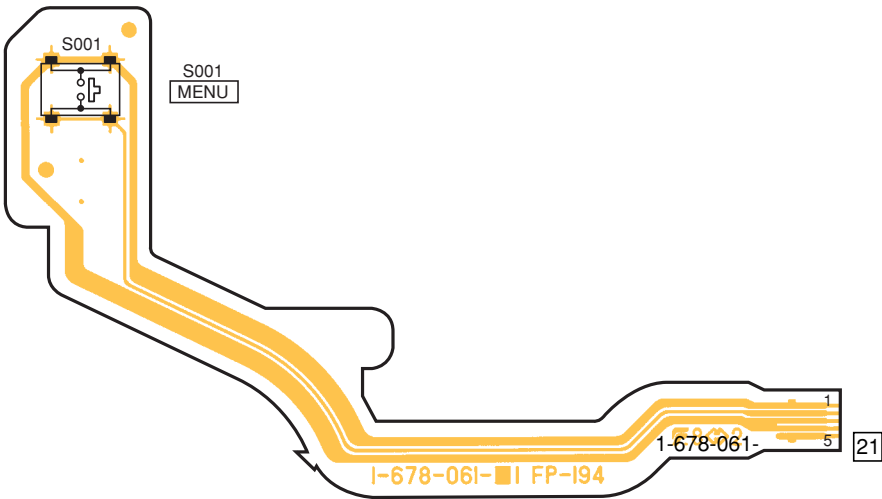
PD-217 BOARD(SIDE A)



PD-217 BOARD(SIDE B)



FP-194 FLEXIBLE BOARD



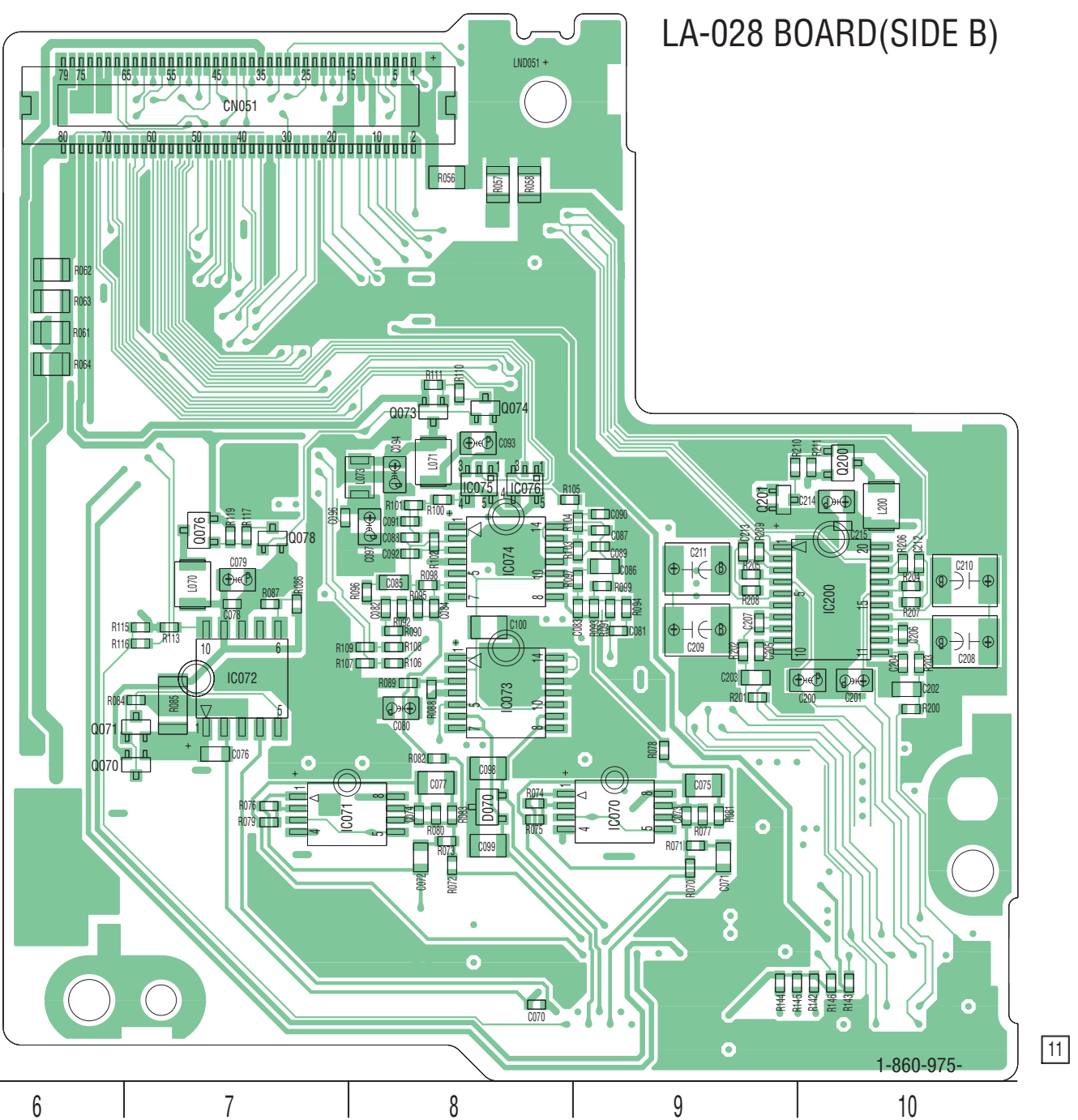
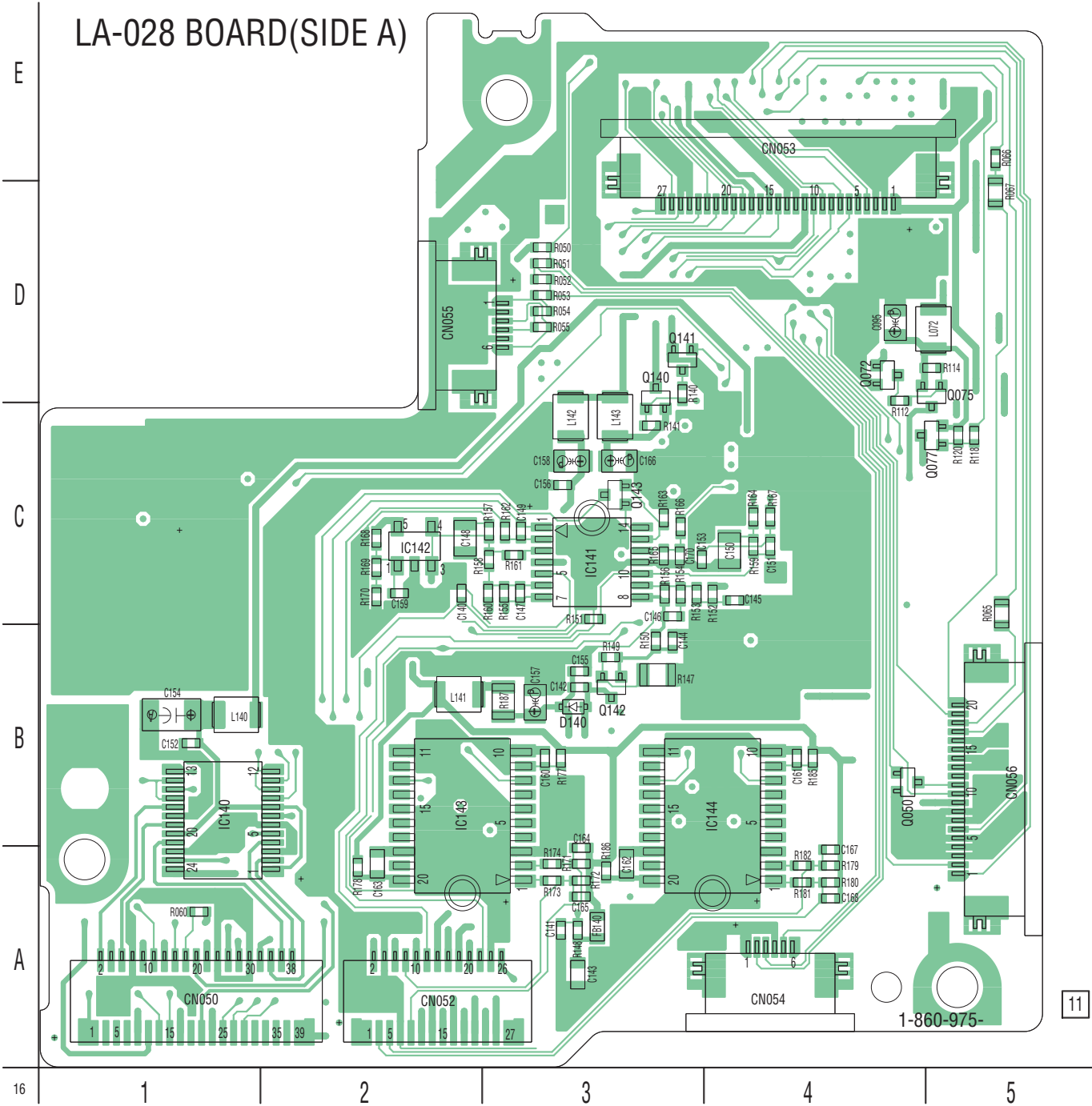
4-2. SCHEMATIC DIAGRAMS

4-3. PRINTED WIRING BOARDS

MOUNTED PARTS LOCATION

• Refer to page 4-79 for common note for printed wiring board.

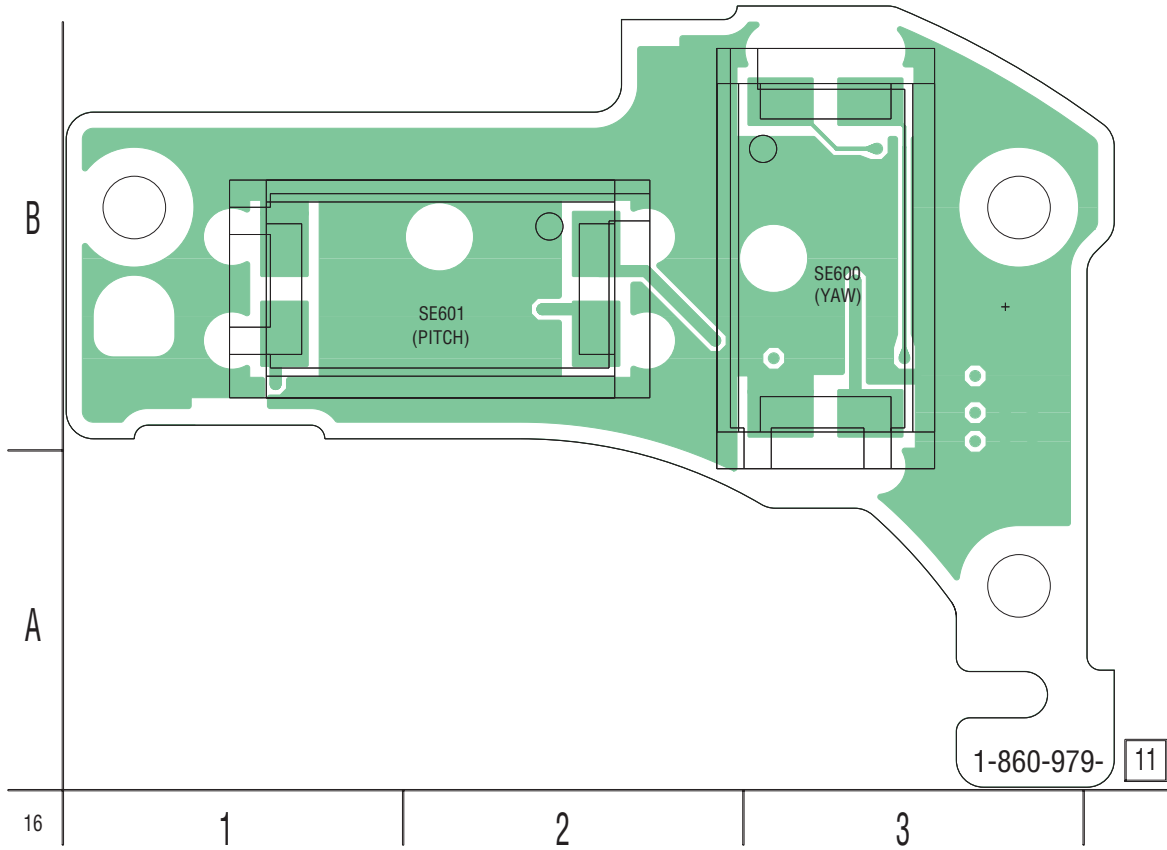
•  : Uses unleaded solder.



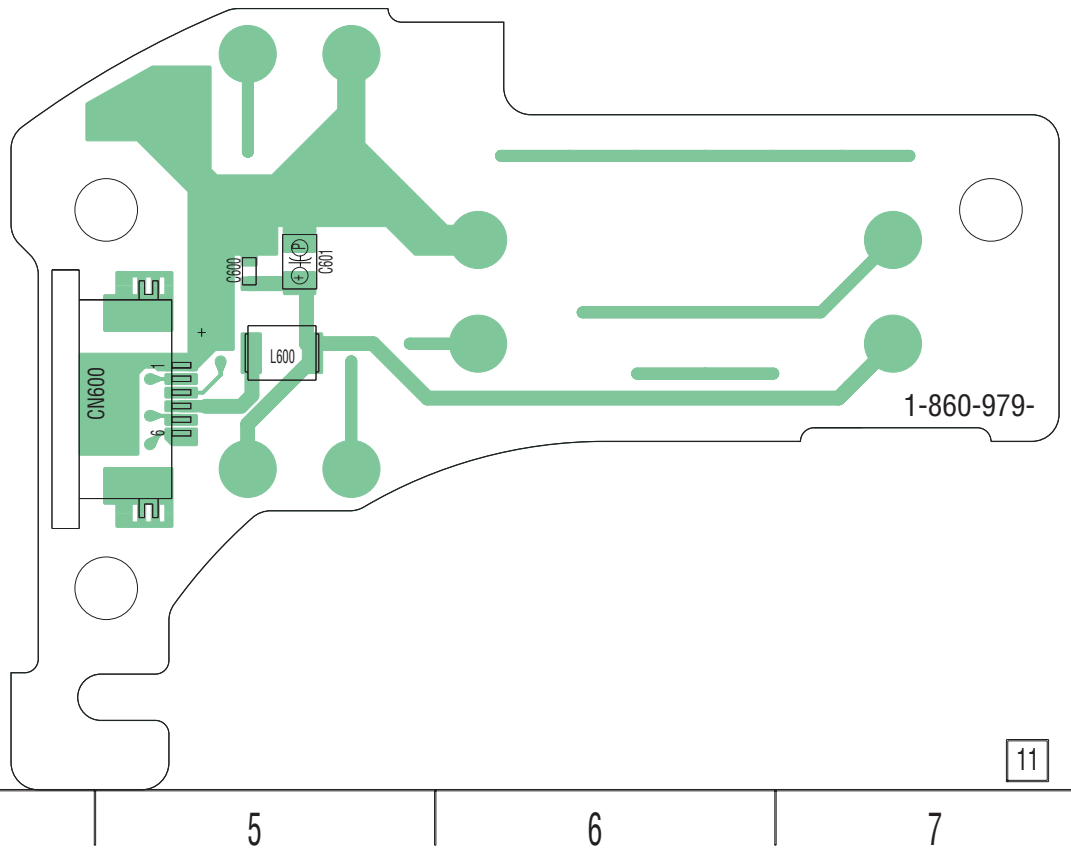
• Refer to page 4-79 for common note for printed wiring board.

•  : Uses unleaded solder.

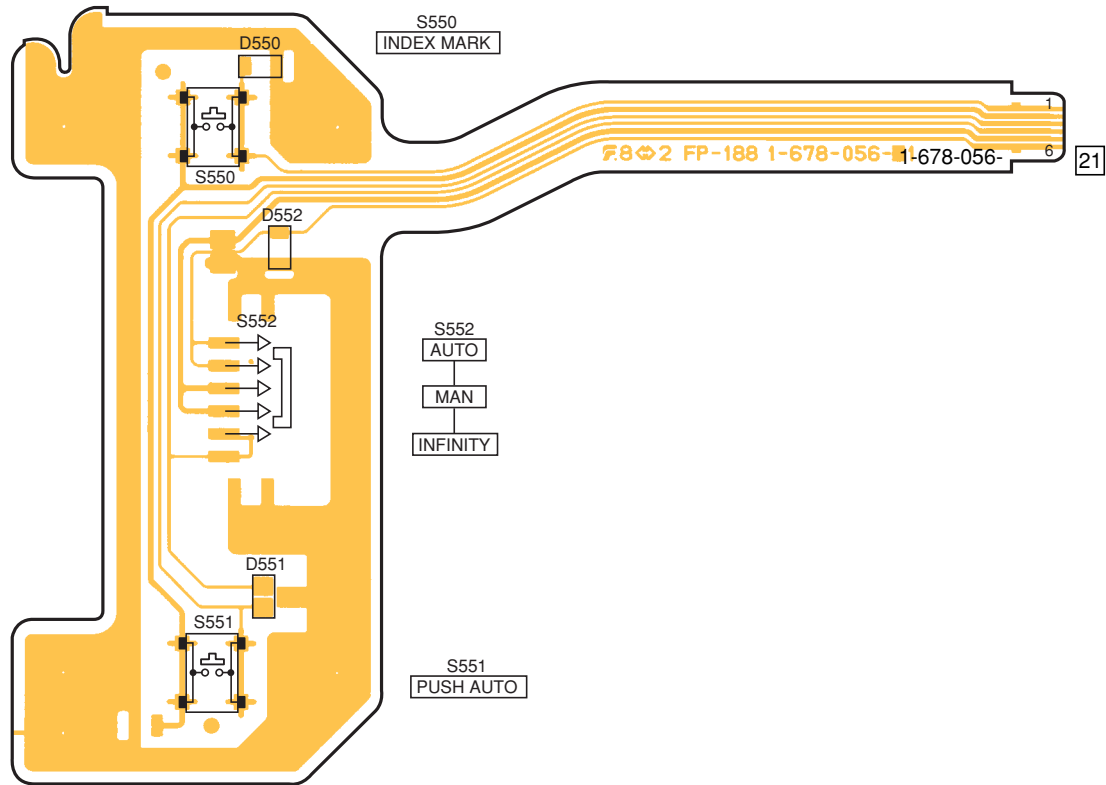
SE-147 BOARD(SIDE A)



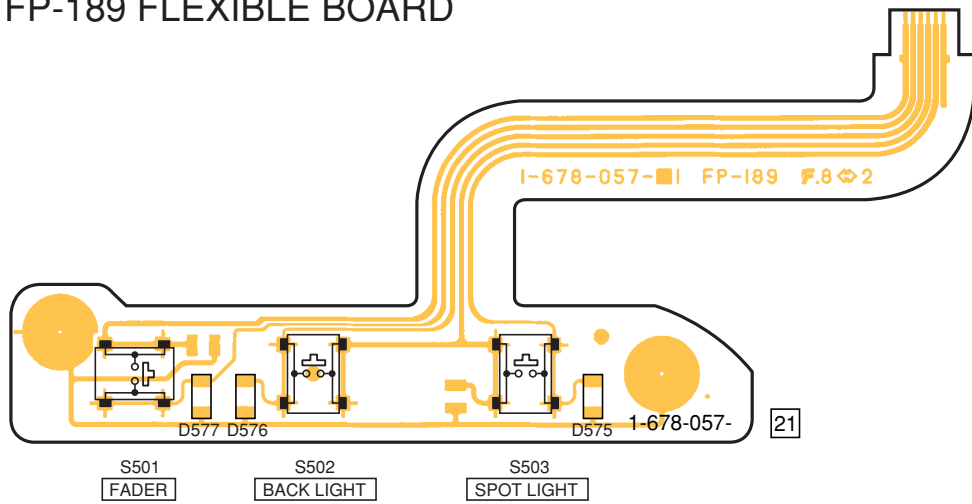
SE-147 BOARD(SIDE B)



FP-188 FLEXIBLE BOARD



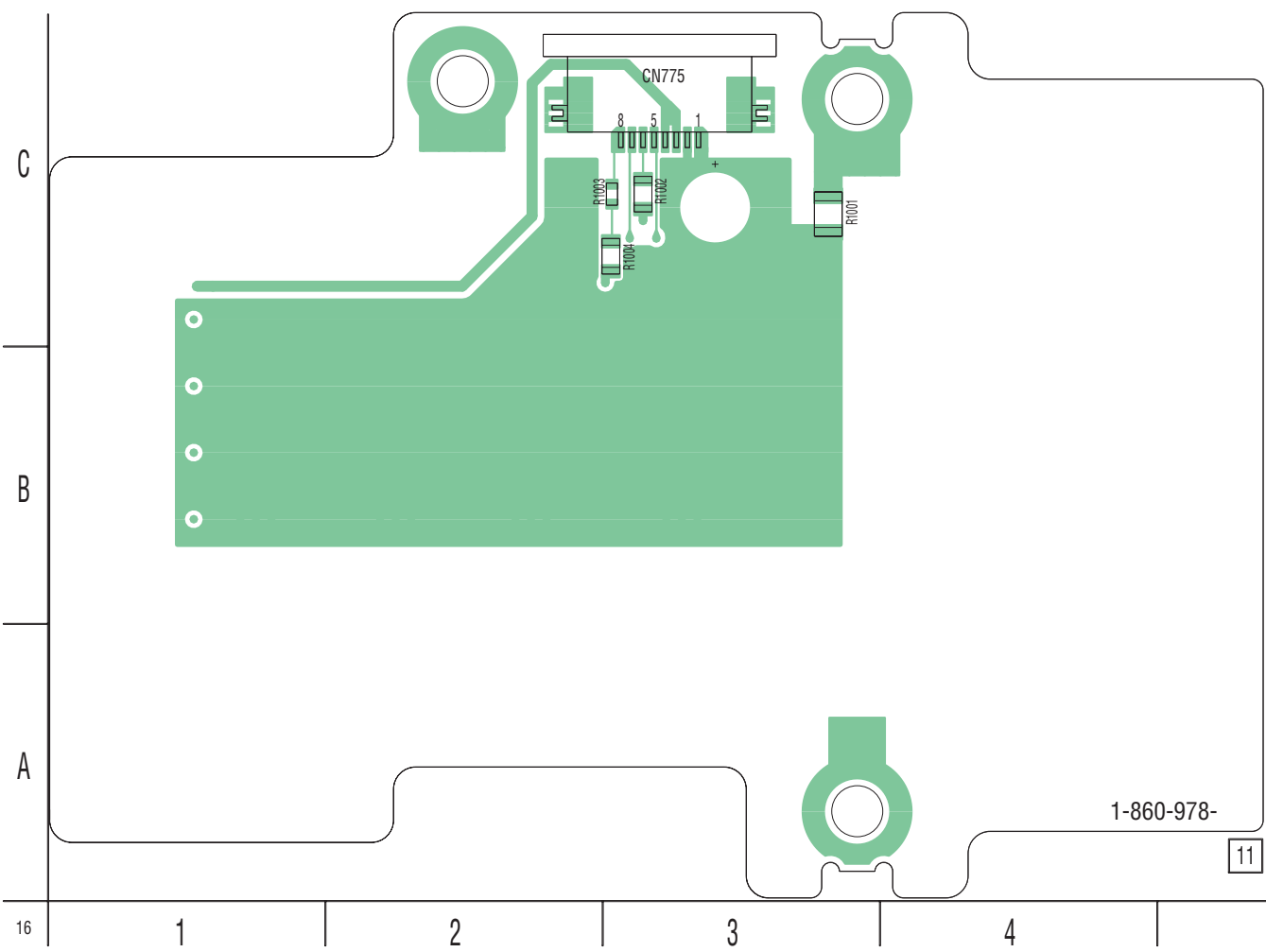
FP-189 FLEXIBLE BOARD



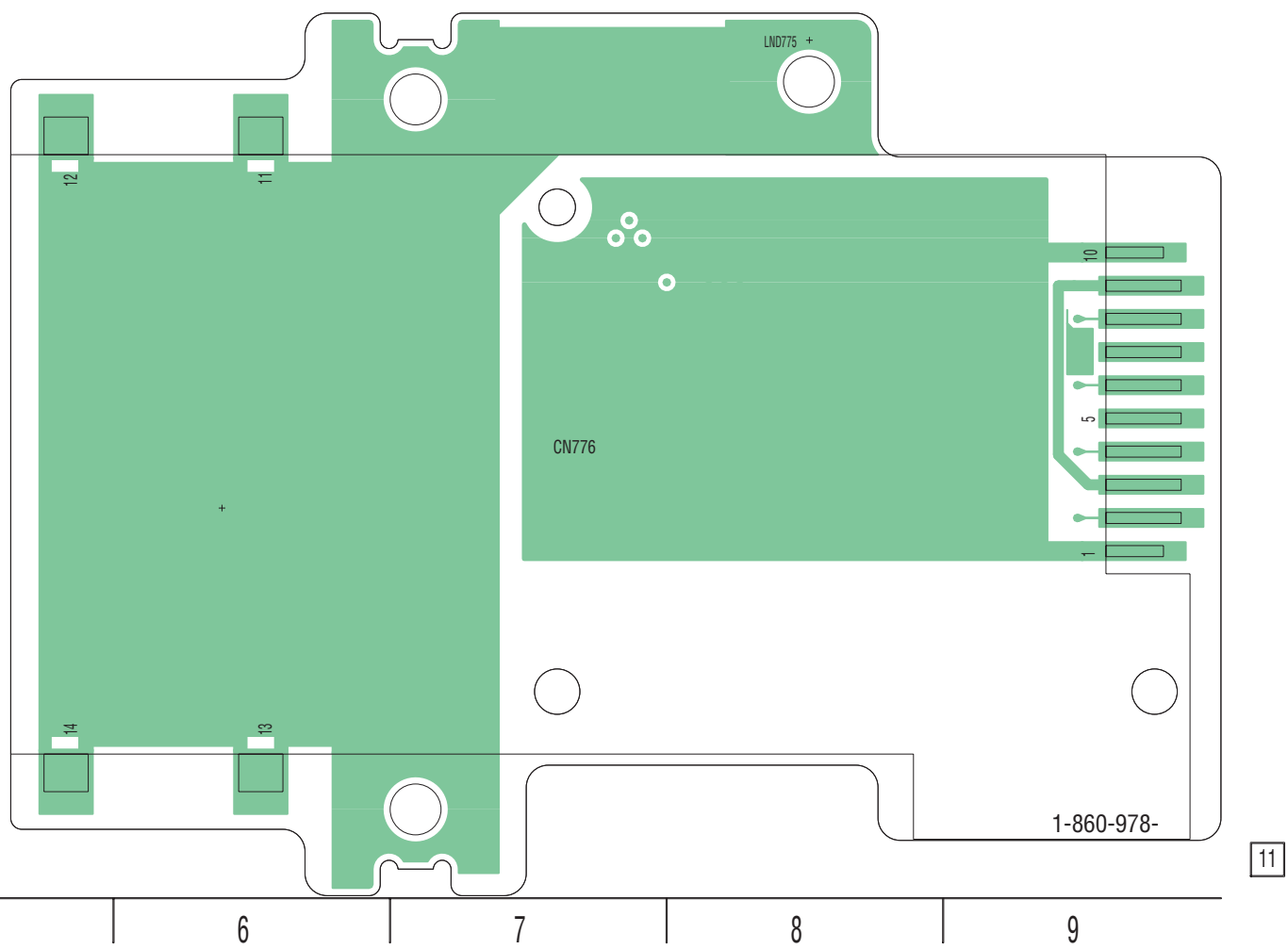
• Refer to page 4-79 for common note for printed wiring board.

•  : Uses unleaded solder.

MS-209 BOARD(SIDE A)



MS-209 BOARD(SIDE B)



4-2. SCHEMATIC DIAGRAMS

4-3. PRINTED WIRING BOARDS

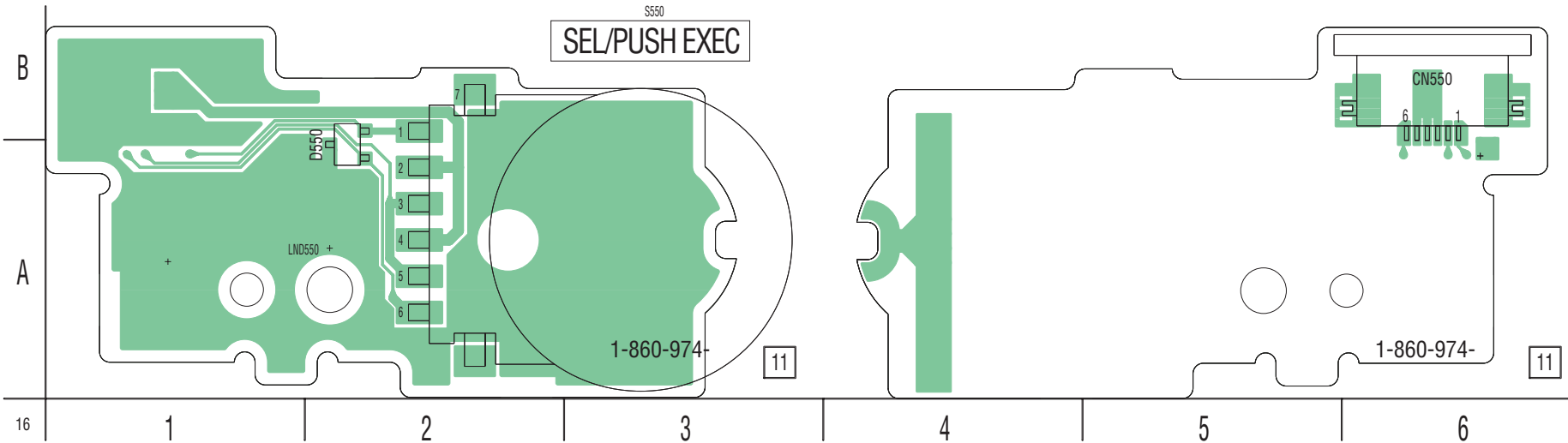
MOUNTED PARTS LOCATION

• Refer to page 4-79 for common note for printed wiring board.

•  : Uses unleaded solder.

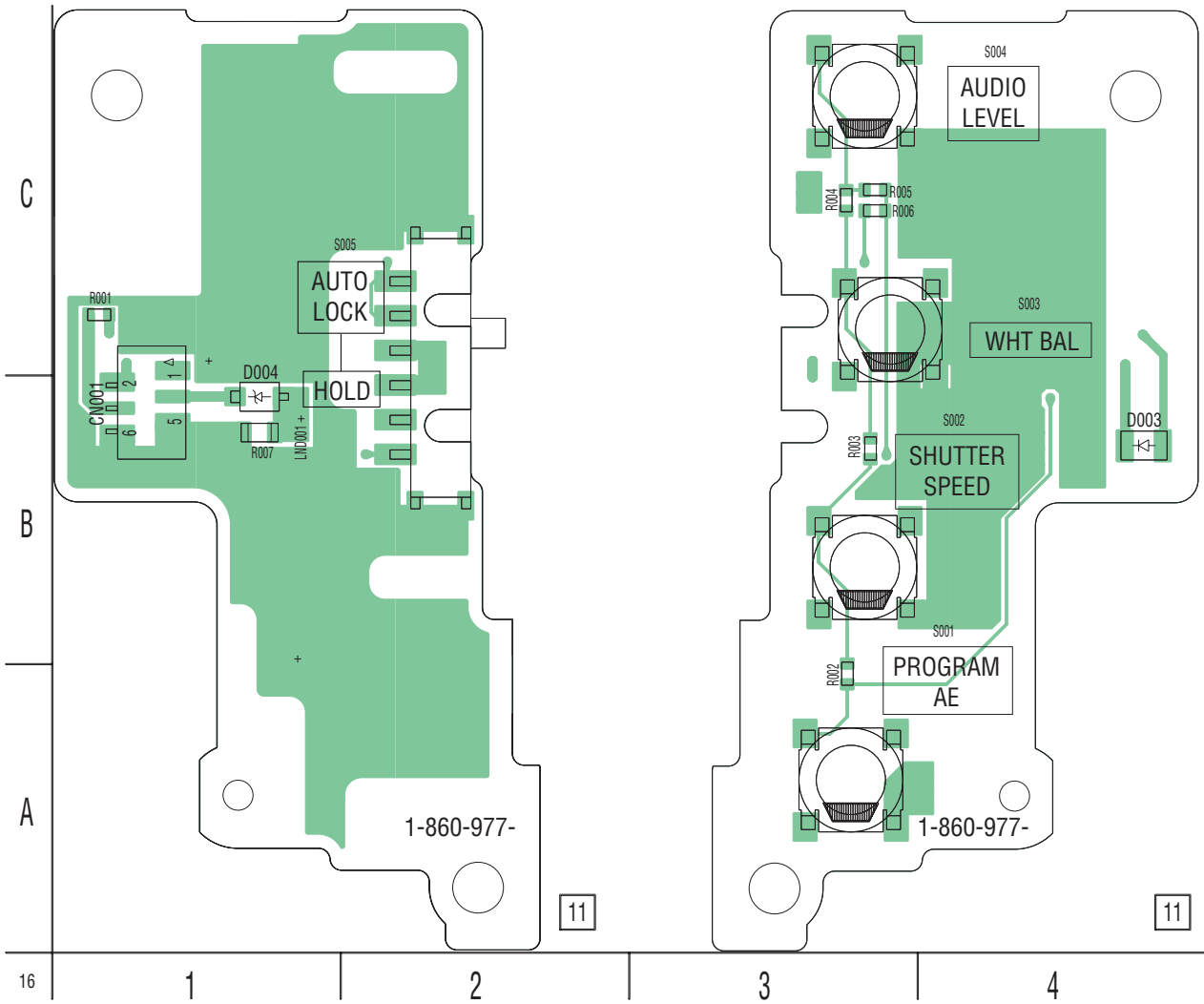
KP-013 BOARD(SIDE A)

KP-013 BOARD(SIDE B)



MK-016 BOARD
(SIDE A)

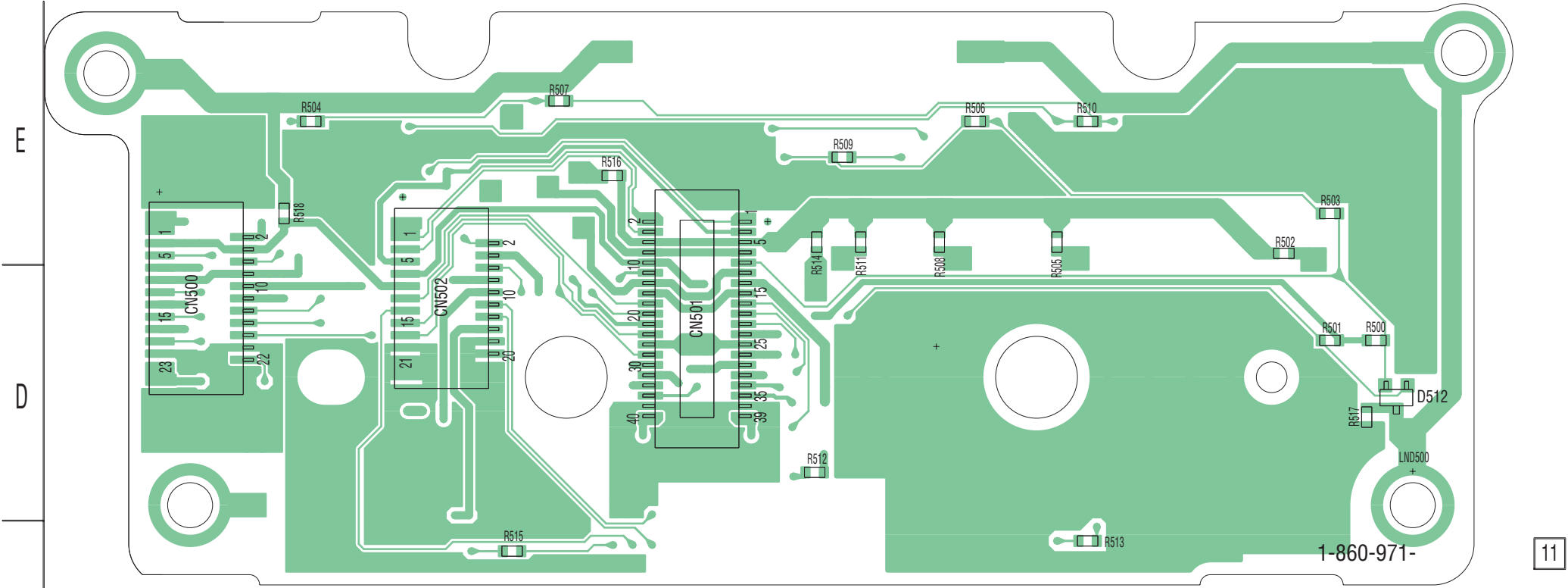
MK-016 BOARD
(SIDE B)



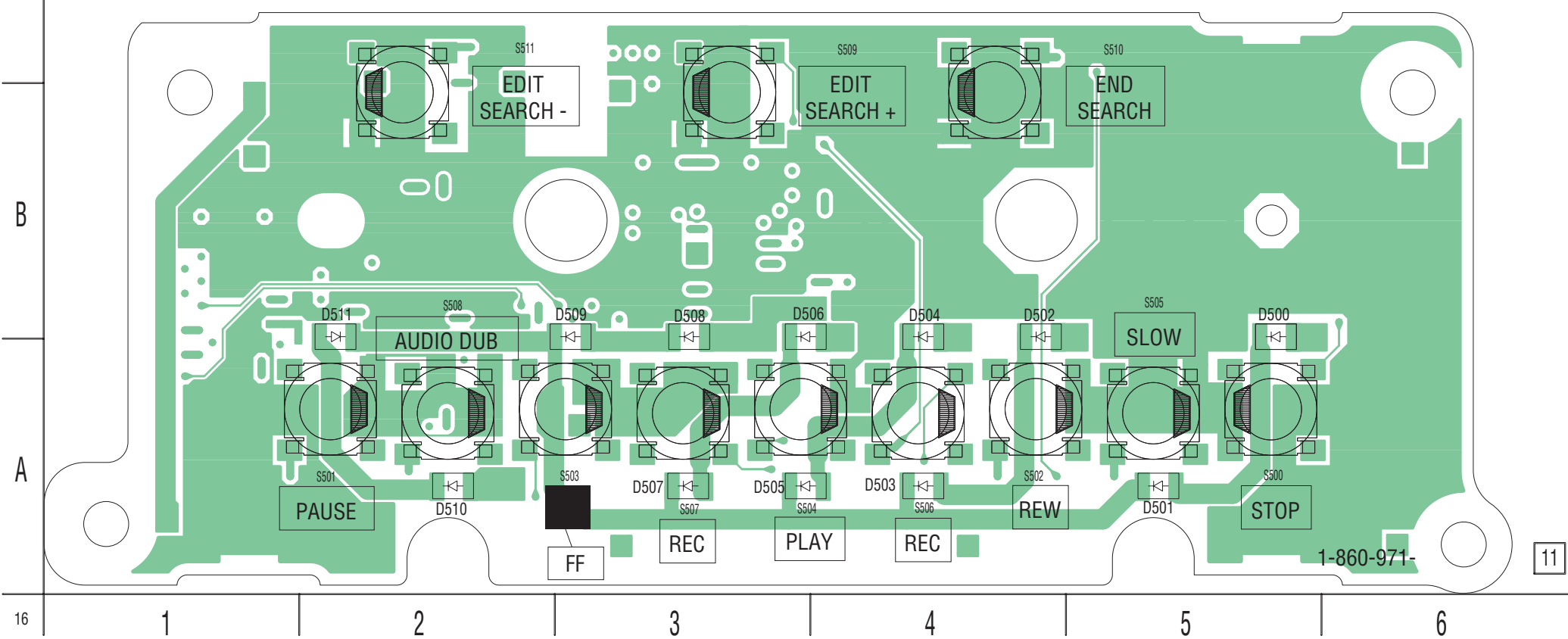
• Refer to page 4-79 for common note for printed wiring board.

•  : Uses unleaded solder.

FK-088 BOARD(SIDE A)



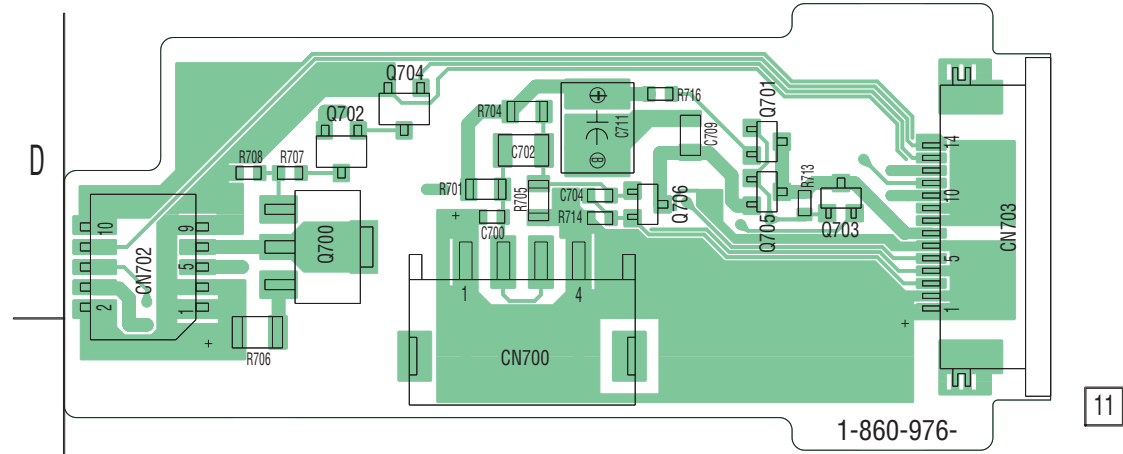
FK-088 BOARD(SIDE B)



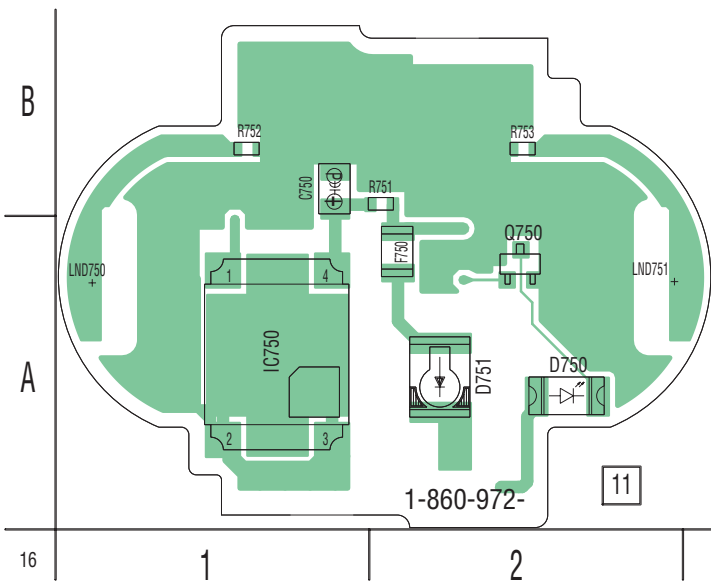
• Refer to page 4-79 for common note for printed wiring board.

-  : Uses unleaded solder.

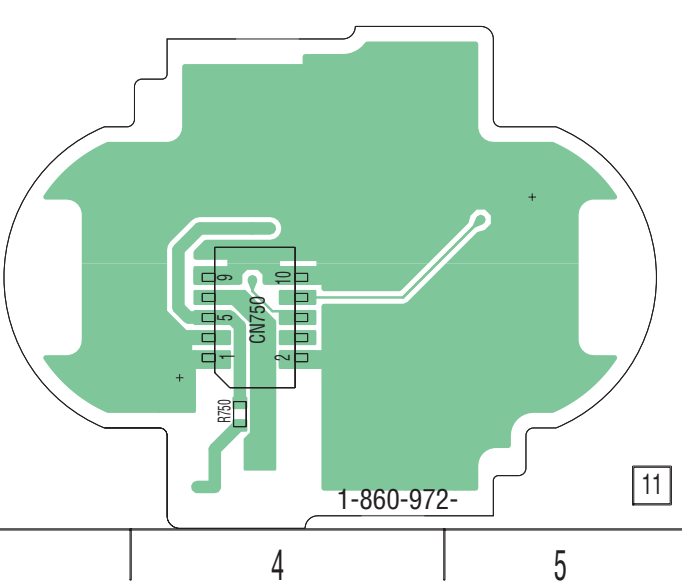
MI-050 BOARD(SIDE A)



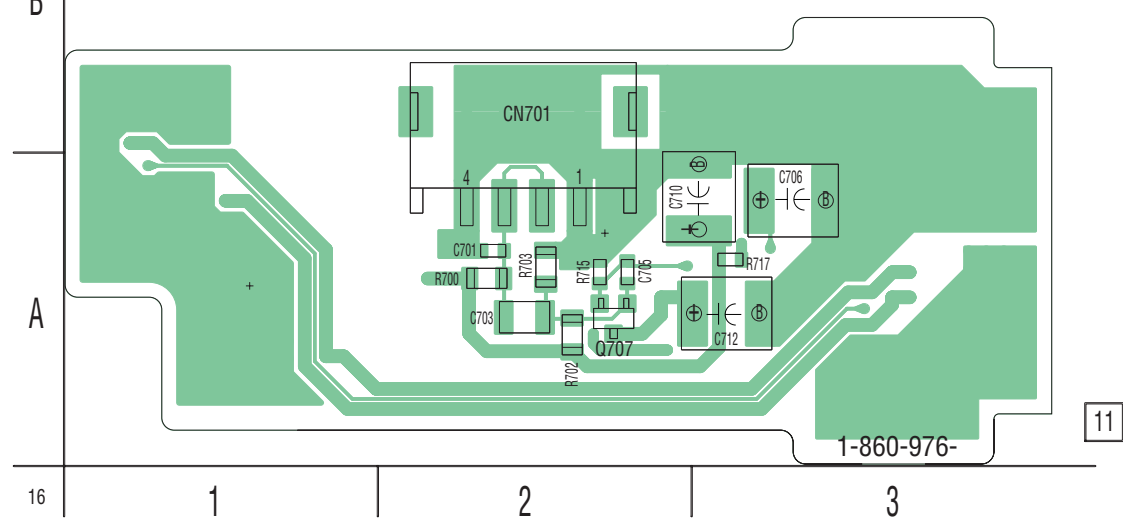
FT-092 BOARD(SIDE A)



FT-092 BOARD(SIDE B)



MI-050 BOARD(SIDE B)

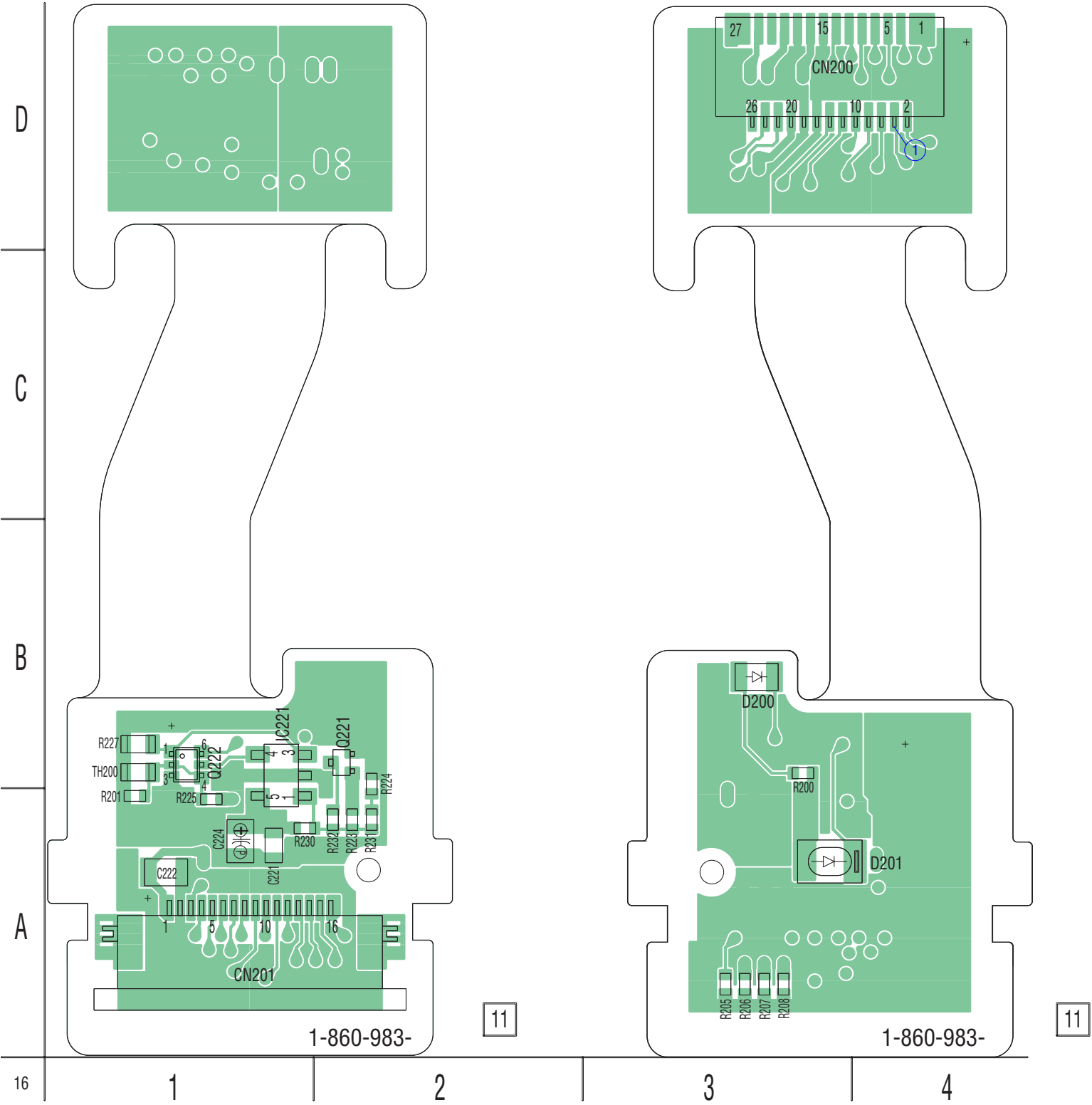


• Refer to page 4-79 for common note for printed wiring board.

•  : Uses unleaded solder.

LB-100 BOARD
(SIDE A)

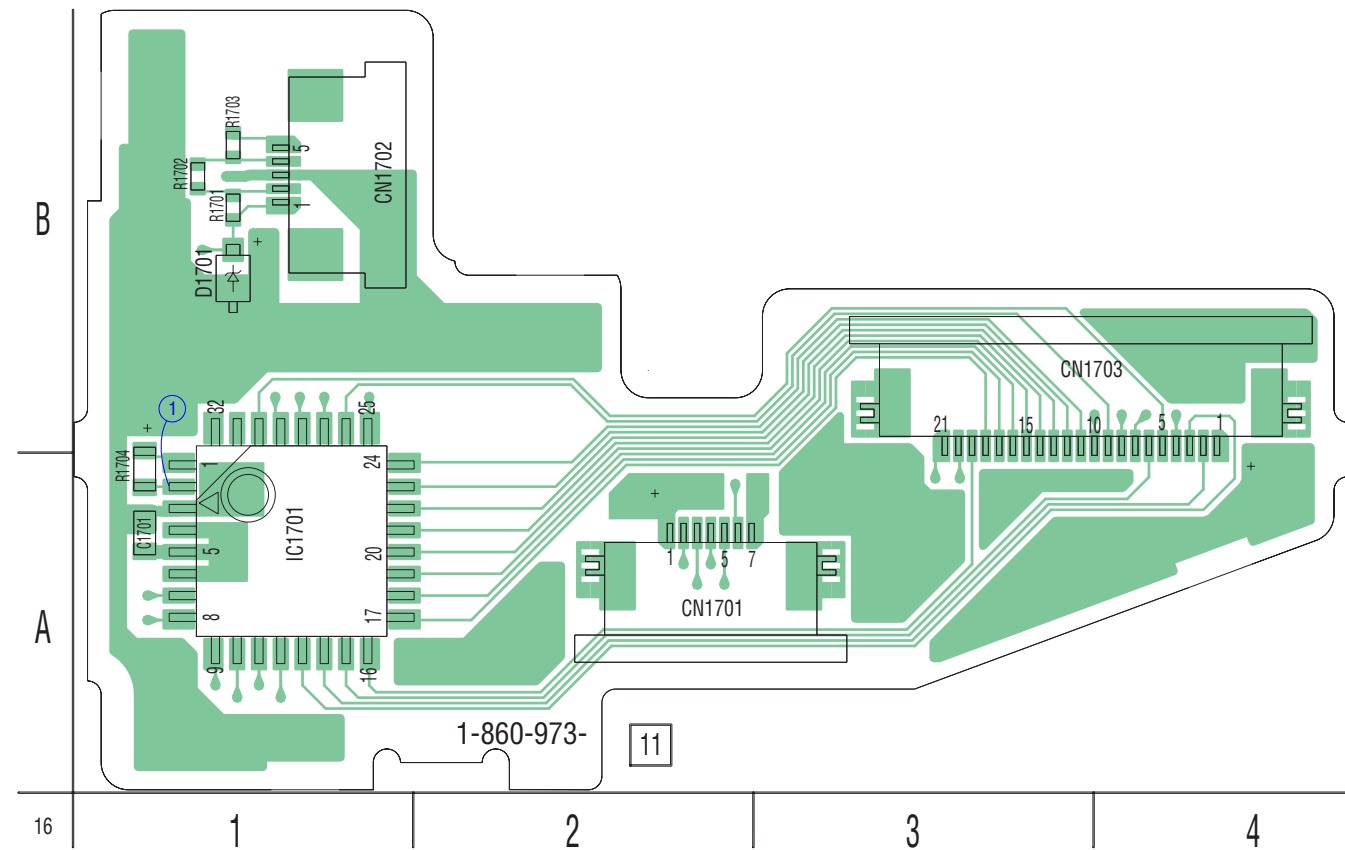
LB-100 BOARD
(SIDE B)



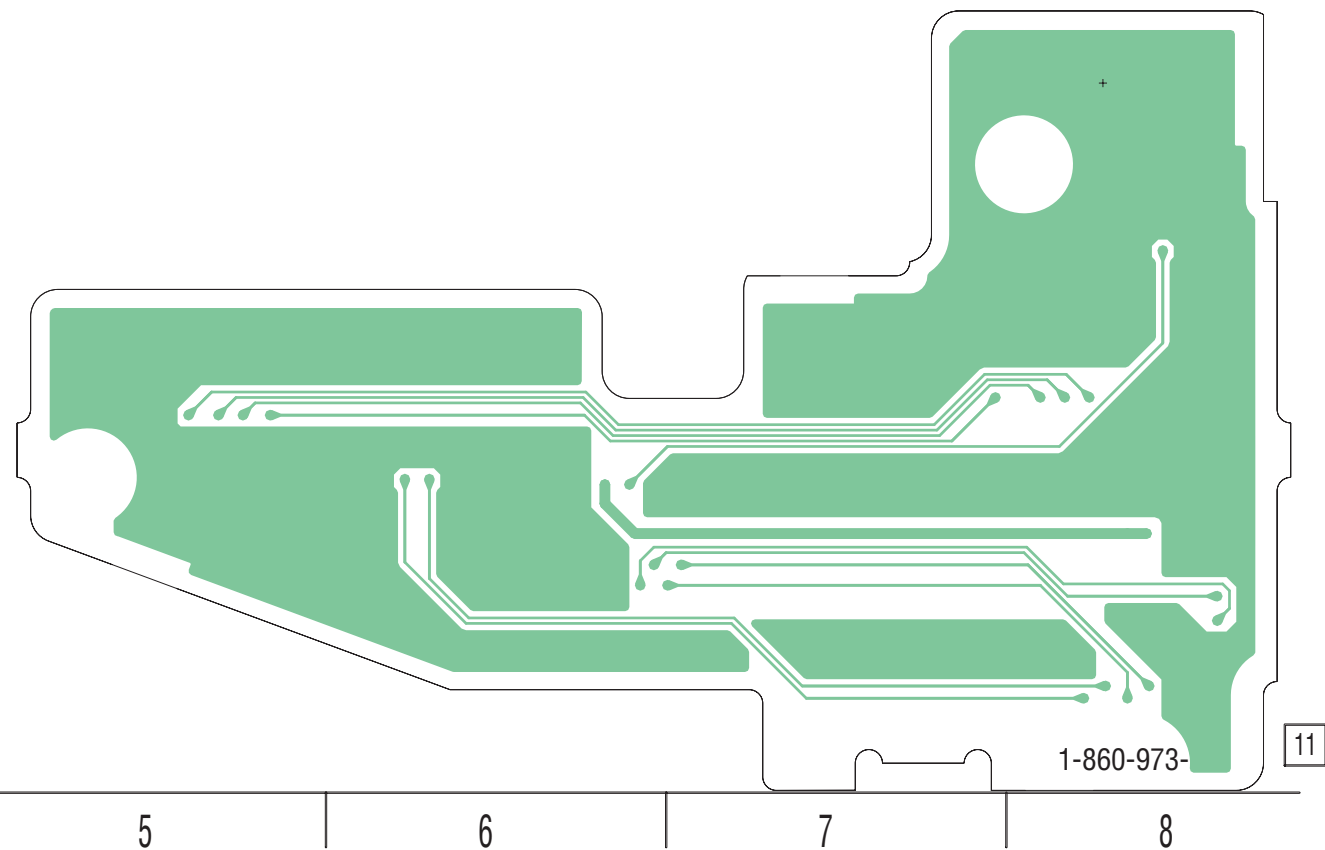
• Refer to page 4-79 for common note for printed wiring board.

-  : Uses unleaded solder.

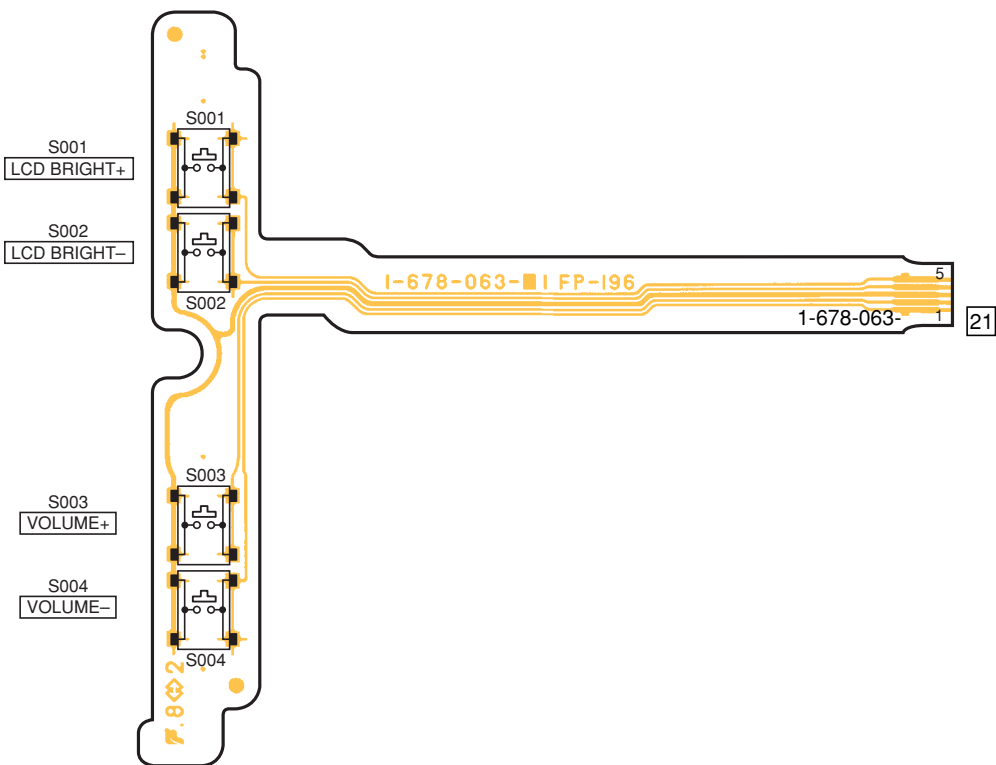
HL-013 BOARD(SIDE A)



HL-013 BOARD(SIDE B)



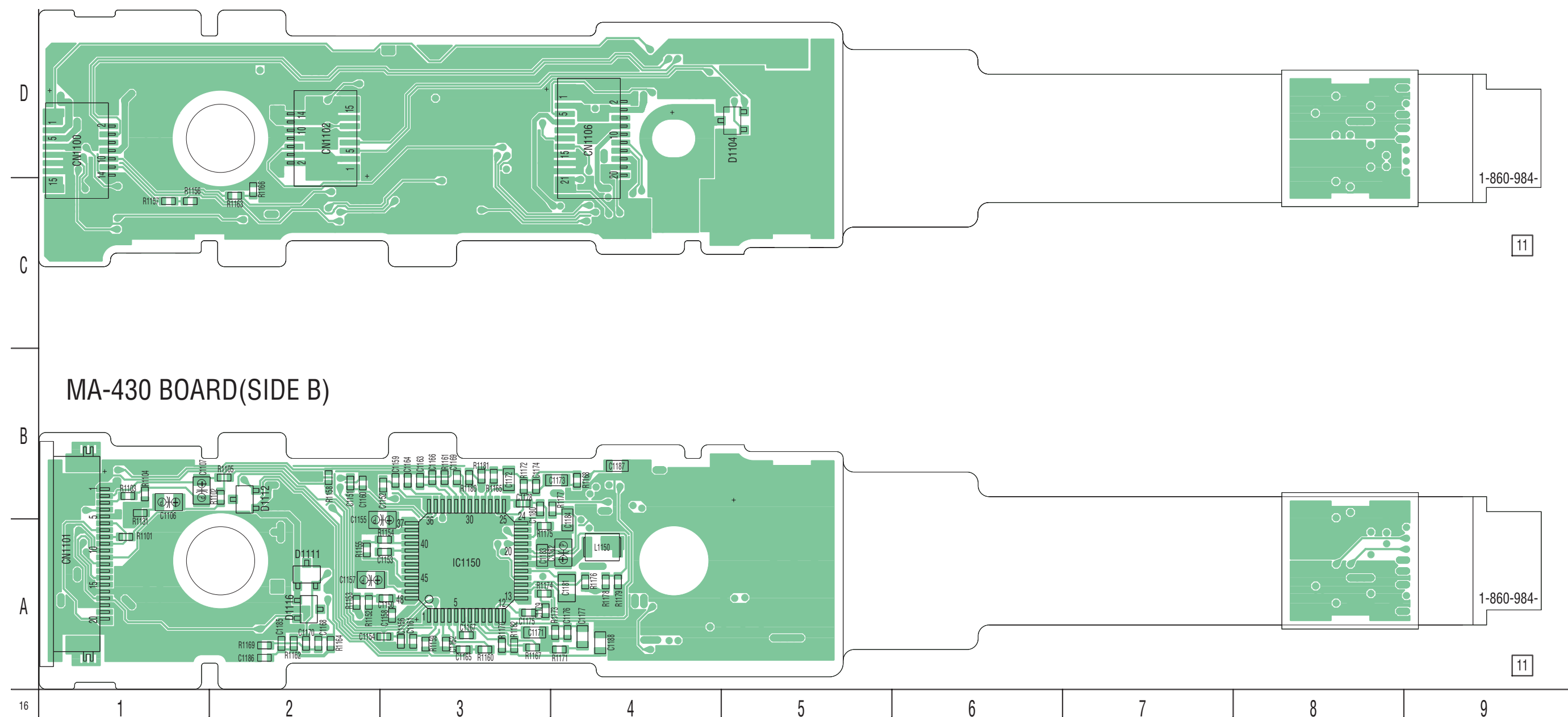
FP-196 FLEXIBLE BOARD



- Refer to page 4-79 for common note for printed wiring board.

- : Uses unleaded solder.

MA-430 BOARD(SIDE A)





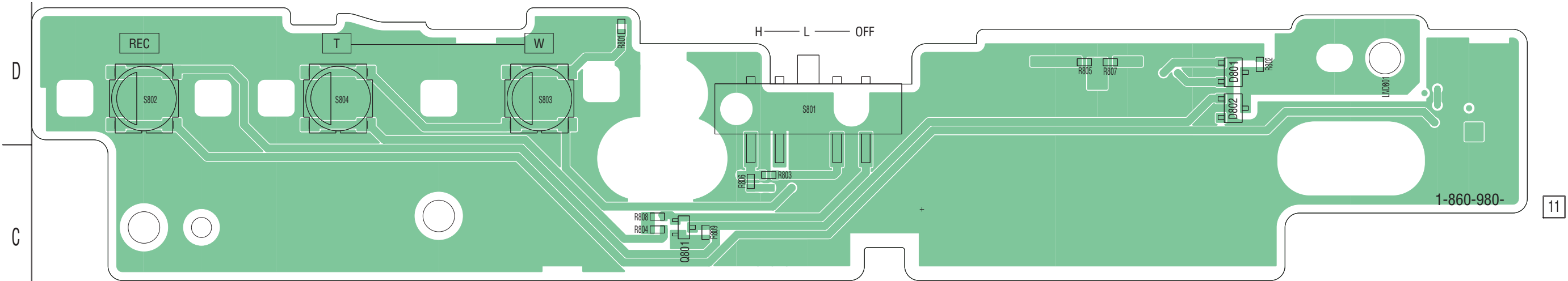
DD-216 BOARD(SIDE B)



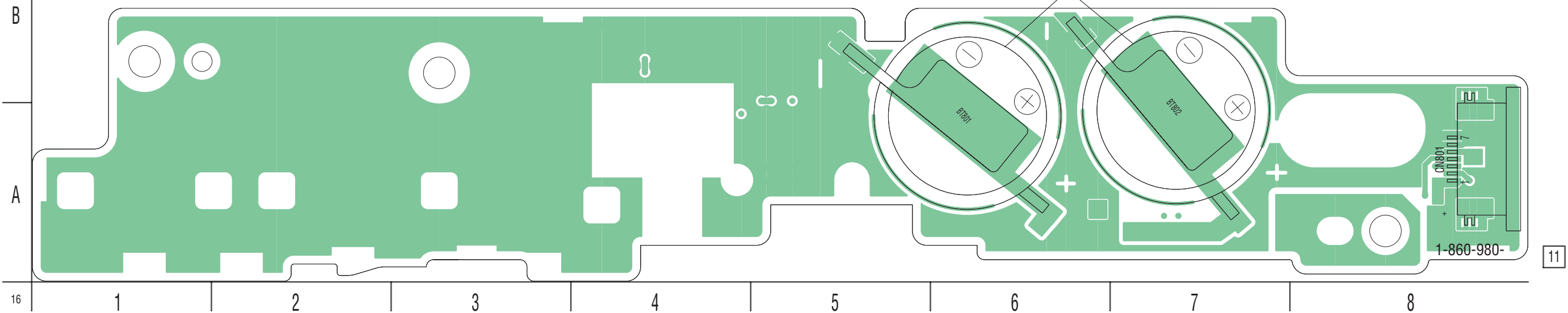
• Refer to page 4-79 for common note for printed wiring board.

•  : Uses unleaded solder.

ZM-030 BOARD(SIDE A)



ZM-030 BOARD(SIDE B)

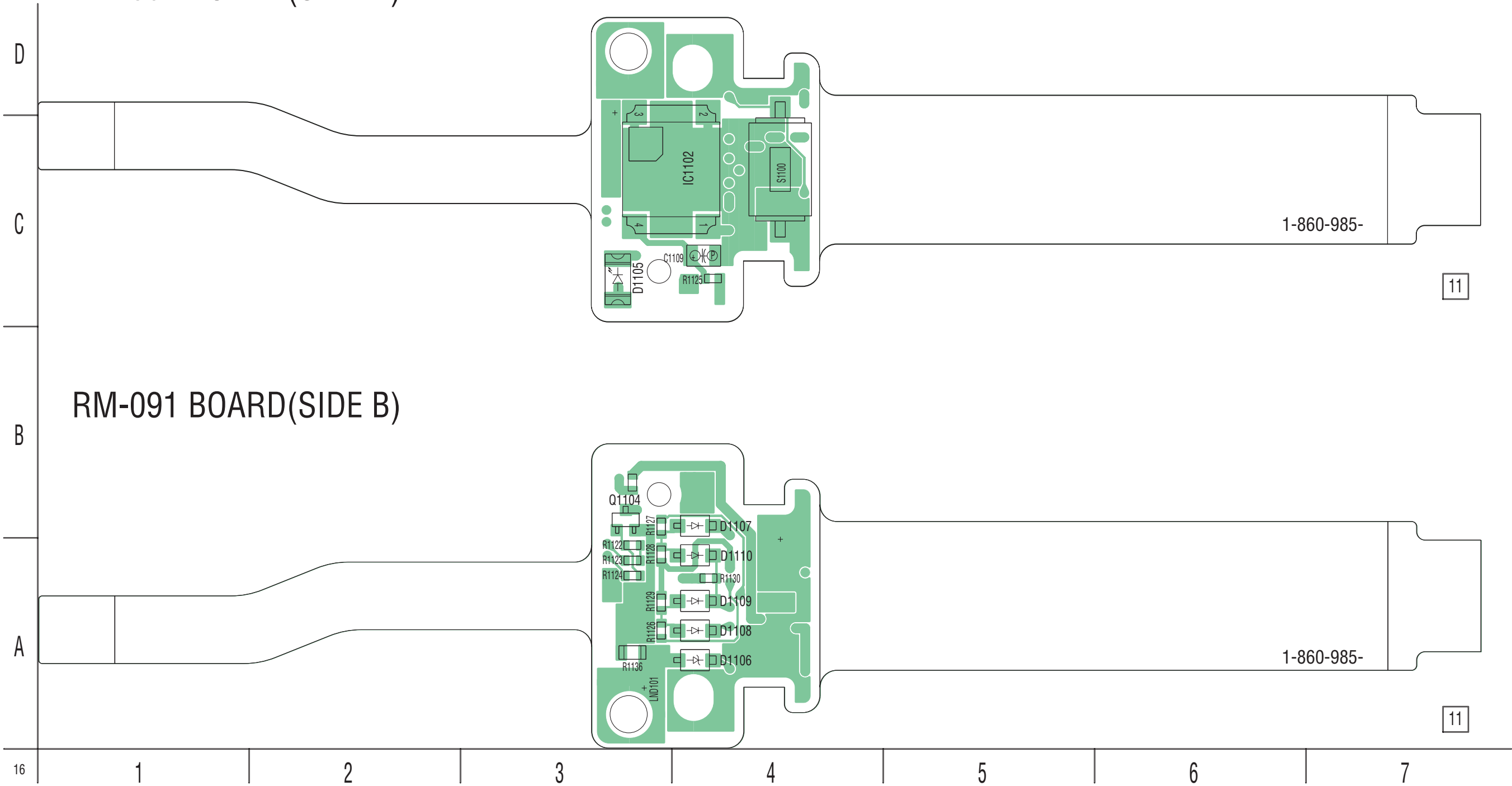


CAUTION :
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.

• Refer to page 4-79 for common note for printed wiring board.

•  : Uses unleaded solder.

RM-091 BOARD(SIDE A)

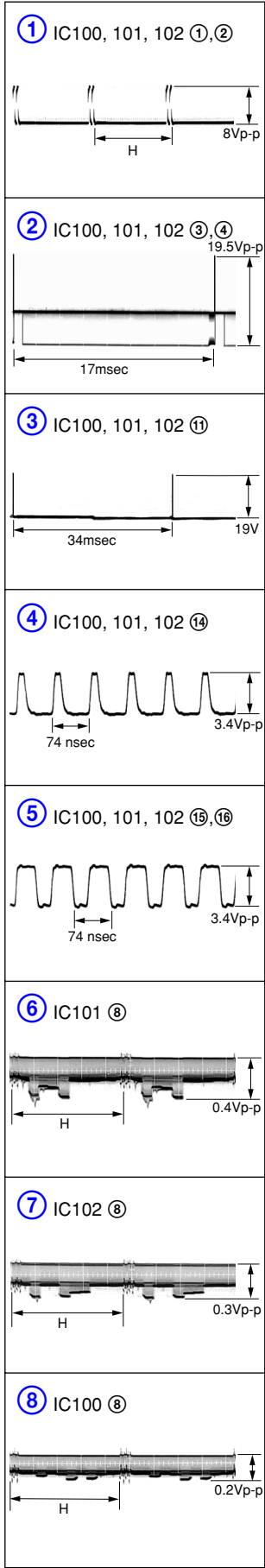


RM-091 BOARD(SIDE B)

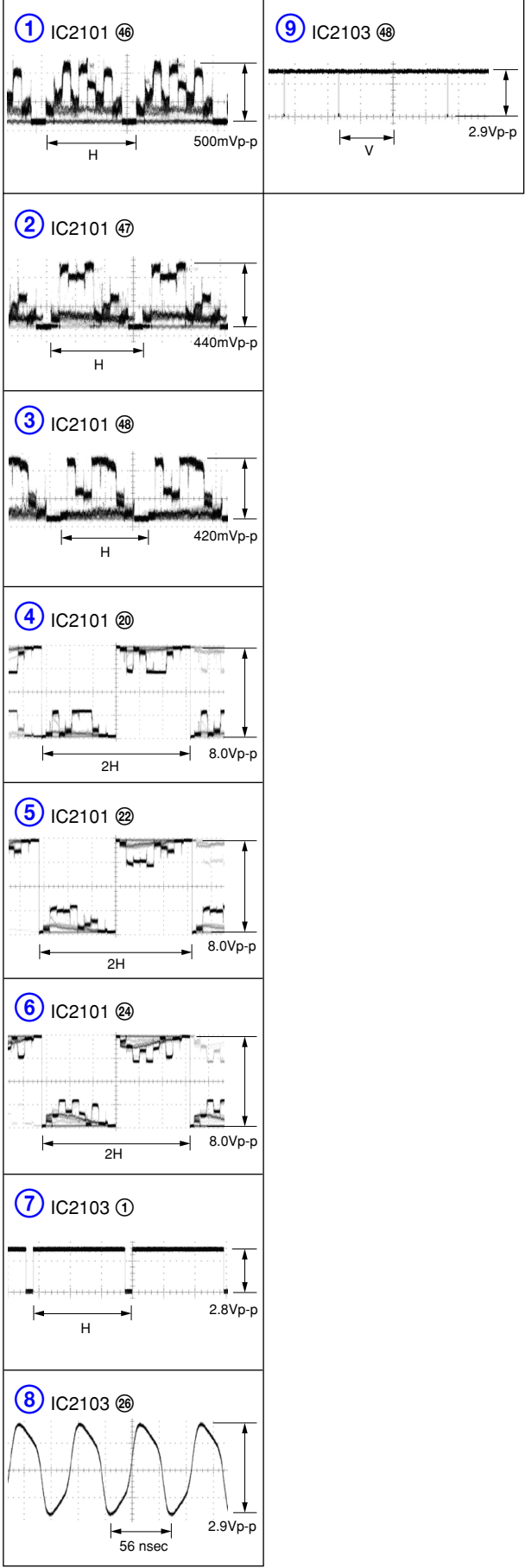
Printed wiring boards of the FP-594 and VC-358 board are not shown.
Pages from 4-113 to 4-118 are not shown.

4-4. WAVEFORMS

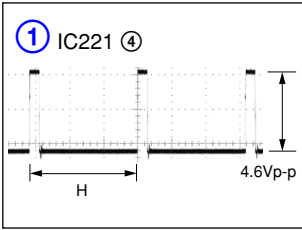
CD-512 BOARD
REC



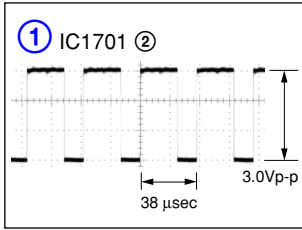
PD-217 BOARD
REC/PB



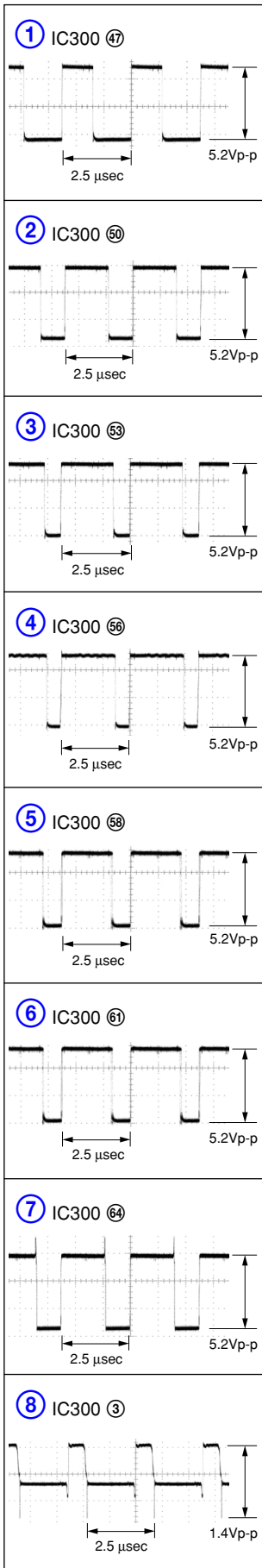
LB-100 BOARD
REC/PB



HL-013 BOARD
REC/PB



DD-216 BOARD (1/2)
CAMERA REC



Waveforms of the VC-358 board are not shown.
Pages from 4-121 to 4-123 are not shown.

4-3. PRINTED WIRING BOARDS

4-5. MOUNTED PARTS LOCATION

CD-512 BOARD		JK-267 BOARD		CK-140 BOARD		PD-217 BOARD			
C100	A-2	* C301	B-7	CN250	E-3	C2101	C-1	Q2101	C-3
C101	D-1	* C302	B-7	* CN251	B-6	C2102	D-1	Q2102	B-2
C102	A-2	* C303	C-7	CN252	A-5	C2103	D-1	Q2103	C-3
C103	D-2	* C304	B-7	CN253	D-4	C2104	C-1	Q2104	C-3
C104	A-2			CN254	A-2	C2105	C-1	Q2111	C-2
C105	D-2	CN300	A-4	CN255	E-1	C2107	C-1	Q2112	B-3
C108	G-2	* CN301	A-9	CN256	E-2	C2108	D-1	Q2181	C-3
C109	G-1					C2109	D-1	Q2182	D-3
C110	G-1	* D300	A-7	* D250	F-8	C2110	C-1	Q2183	B-3
C111	G-1	D301	E-4	* D251	F-8	C2111	C-2		
C112	A-1	* D302	B-7	* D252	B-10	C2112	D-2	R2111	D-1
C113	A-1	D303	E-3	D253	A-3	C2113	C-2	R2112	C-1
C114	D-1	* D304	C-7	D254	A-3	C2114	D-2	R2113	B-1
C115	D-1	* D305	A-7	D255	A-3	C2115	D-3	R2115	C-2
C117	A-1	D306	E-4			C2116	C-2	R2116	C-2
C118	D-1	* D307	B-7	* R255	F-7	C2117	C-2	R2117	C-2
C119	G-1	* D308	C-7	* R256	E-9	C2118	D-2	R2118	C-2
C120	G-1	* D309	D-9	* R257	D-8	C2119	D-3	R2119	C-2
C130	A-1	* D310	D-8	* R258	C-7	C2120	D-2	R2122	C-2
C131	A-1	* D311	C-9	* R259	E-9	C2123	C-3	R2123	C-3
C132	D-1	* D312	E-9	* R260	D-8	C2124	C-3	R2124	C-2
C133	D-1	* D313	E-9	* R261	C-8	C2125	C-3	R2129	C-2
C134	G-1	* D314	E-8	* R262	E-9	C2126	B-3	R2134	C-3
C135	G-1			* R263	D-9	C2127	B-3	R2136	C-2
		FB300	E-4	* R264	C-7	C2128	B-3	R2137	C-3
* CN100	E-6	FB301	E-4	* R265	E-9	C2133	B-2	R2138	C-3
				* R266	B-9	C2181	C-3	R2143	D-3
IC100	G-1	J300	D-4	* R267	E-7	C2182	B-3	R2144	C-3
IC101	B-1	J301	F-5	* R268	E-8	C2183	C-3	R2146	B-1
IC102	E-1	J302	E-1	* R269	B-9	C2184	C-3	R2147	C-3
IC103	A-1	J303	E-1			C2185	C-3	R2148	C-3
IC104	D-1			* S250	D-7	C2186	D-3	R2153	B-3
IC105	G-2	* L301	B-7	* S251	E-7			R2157	B-3
		* L302	B-7	* S252	E-9	CN2100	C-1	R2158	B-3
L100	A-2			* S253	C-7	CN2101	B-1	R2159	B-3
L101	D-2	R300	E-3	* S254	D-9	CN2103	A-3	R2160	B-3
L104	D-1	* R301	C-7	* S255	C-8	CN2104	B-2	R2162	B-2
L105	G-1	* R302	C-7	* S256	B-10	CN2105	D-3	R2163	C-2
L106	A-1	* R303	C-7	* S257	D-8			R2165	B-3
L107	G-1	* R304	B-7	* S258	D-9	D2101	C-1	R2166	B-3
		* R305	A-7	* S259	E-10	D2102	C-2	R2168	D-1
R100	A-1	* R306	B-7	* S260	E-9	D2103	B-2	R2169	D-1
R101	A-1	* R307	B-7	* S261	D-7	D2104	B-2	R2170	C-2
R102	D-1	* R308	B-7	* S262	E-8	D2105	B-3	R2172	B-3
R103	D-1	* R309	C-7	* S263	B-9	D2181	A-3	R2173	D-1
R104	G-1	* R310	D-9					R2174	D-1
R105	G-1	* R311	E-8			IC2101	D-2	R2175	C-1
R106	A-1	* R312	E-9			IC2103	B-2	R2176	C-2
R107	D-2	* R313	E-8					R2181	D-3
R108	D-2	* R314	E-9			L2101	C-1	R2182	D-3
R109	A-1	* R315	D-9			L2102	C-1	R2183	A-4
R110	G-2	* R316	D-8			L2103	D-2	R2184	B-2
R111	G-2	* R317	D-9			L2104	C-2		
R112	A-1	* R318	D-9			L2181	C-3		
R113	C-1	* R319	D-9			L2182	C-3		
R114	G-2	* R320	E-9						
		R321	A-3						

no mark : side A
* mark : side B

4-3. PRINTED WIRING BOARDS

LA-028 BOARD

* C070	A-8	* IC070	B-9
* C071	A-9	* IC071	B-7
* C072	A-8	* IC072	B-7
* C073	B-9	* IC073	B-8
* C074	B-8	* IC074	C-8
* C075	B-9	* IC075	C-8
* C076	B-7	* IC076	C-8
* C077	B-8	IC140	B-1
* C078	C-7	IC141	C-3
* C079	C-7	IC142	C-2
* C080	B-8	IC143	B-2
* C085	C-8	IC144	B-4
* C086	C-9	* IC200	C-10
* C087	C-9		
* C088	C-8	* L070	C-7
* C089	C-9	* L071	C-8
* C090	C-9	L072	D-5
* C091	C-8	* L073	C-8
* C092	C-8	L140	B-1
* C093	C-8	L141	B-2
* C094	C-8	L142	C-3
C095	D-4	L143	C-3
* C096	C-7	* L200	C-10
* C097	C-8		
* C098	B-8	Q050	B-4
* C099	B-8	* Q070	B-6
* C100	C-8	* Q071	B-6
C140	C-2	Q072	D-4
C141	A-3	* Q073	D-8
C142	B-3	* Q074	D-8
C143	A-3	Q075	D-5
C144	B-3	* Q076	C-7
C145	C-4	Q077	C-5
C146	C-3	* Q078	C-7
C147	C-3	Q140	D-3
C148	C-2	Q141	D-3
C149	C-3	Q142	B-3
C150	C-4	Q143	C-3
C151	C-4	* Q200	C-10
C152	B-1	* Q201	C-9
C153	C-3		
C154	B-1	R050	D-3
C155	B-3	R051	D-3
C156	C-3	R052	D-3
C157	B-3	R053	D-3
C158	C-3	R054	D-3
C159	C-2	R055	D-3
C160	B-3	* R063	D-6
C161	B-4	R065	C-5
C162	A-3	R066	E-5
C163	A-2	R067	D-5
C164	B-3	* R070	A-9
C165	A-3	* R071	B-9
C166	C-3	* R072	A-8
C167	A-4	* R073	B-8
C168	A-4	* R074	B-8
C170	C-3	* R075	B-8
* C200	B-10	* R076	B-7
* C201	B-10	* R077	B-9
* C202	B-10	* R078	B-9
* C203	B-9	* R079	B-7
* C204	B-10	* R080	B-8
* C205	B-9	* R081	B-9
* C206	C-10	* R082	B-8
* C207	C-9	* R083	B-8
* C208	C-10	* R084	B-6
* C209	B-9	* R085	B-7
* C210	C-10	* R086	C-7
* C211	C-9	* R087	C-7
* C212	C-10	* R088	B-8
* C213	C-9	* R089	B-8
* C214	C-10	* R091	C-9
* C215	C-10	* R092	C-8
		* R093	C-9
		* R095	C-8
		* R096	C-8
		* R097	C-9
		* R098	C-8
		* R099	C-9
		* R100	C-8
		* R101	C-8
		* R102	C-8
		* R103	C-9
		* R104	C-9
		* R105	C-8
		* R106	B-8
CN050	A-1		
* CN051	E-7		
CN052	A-2		
CN053	E-4		
CN054	A-4		
CN055	D-2		
CN056	B-5		
* D070	B-8		
D140	B-3		
FB140	A-3		

SE-147 BOARD

* C600	B-5
* C601	B-5
* CN600	B-5
* L600	B-5
SE600	B-3
SE601	B-2

MS-209 BOARD

CN775	C-3
* CN776	B-7
R1002	C-3
R1003	C-2
R1004	C-3

KP-013 BOARD

* CN550	B-6
D550	A-2
S550	B-3

MK-016 BOARD

CN001	B-1
* D003	B-4
D004	C-1
R001	C-1
* R002	A-3
* R003	B-3
* R004	C-3
* R005	C-3
* R006	C-3
* S001	B-4
* S002	B-4
* S003	C-4
* S004	C-4
S005	C-2

FK-088 BOARD

CN500	D-1
CN501	D-3
CN502	D-2
* D500	B-5
* D501	A-5
* D502	B-4
* D503	A-4
* D504	B-4
* D505	A-3
* D506	B-3
* D507	A-3
* D508	B-3
* D509	B-3
* D510	A-2
* D511	B-2
D512	D-6
R502	E-5
R503	E-6
R504	E-2
R505	D-4
R506	E-4
R507	E-3
R508	D-4
R509	E-4
R510	E-5
R511	D-4
R512	D-4
R513	D-5
R514	D-4
R515	C-2
R516	E-3
R518	E-1
* S500	A-5
* S501	A-2
* S502	A-4
* S503	A-3
* S504	A-3
* S505	B-5
* S506	A-4
* S507	A-3
* S508	B-2
* S509	C-4
* S510	C-5
* S511	C-2

MI-050 BOARD

C700	D-2
* C701	A-2
C702	D-2
* C703	A-2
C704	D-2
* C705	A-2
* C706	A-3
C709	D-3
* C710	A-2
C711	D-2
CN700	C-2
* CN701	B-2
CN702	D-1
CN703	D-3
Q700	D-1
Q701	D-3
Q702	D-1
Q703	D-3
Q704	D-2
Q705	D-3
Q706	D-2
* Q707	A-2
* R700	A-2
R701	D-2
* R702	A-2
* R703	A-2
R704	D-2
R705	D-2
R706	C-1
R707	D-1
R708	D-1
R713	D-3
R714	D-2
* R715	A-2
R716	D-2
* R717	A-3

FT-092 BOARD

C750	B-1
* CN750	A-4
D750	A-2
D751	A-2
F750	A-2
IC750	A-1
Q750	A-2
* R750	A-4
R751	B-2

no mark : side A
* mark : side B

4-3. PRINTED WIRING BOARDS

LB-100 BOARD

C221	A-1
C222	A-1
* CN200	D-3
CN201	A-1
* D200	B-4
* D201	A-4
* IC221	B-1
* L200	A-3
Q221	B-2
Q222	B-1
* R200	A-3
* R205	A-3
R206	A-3
* R207	A-3
R208	A-3
R224	B-2
R225	A-1
R227	B-1
R230	A-1
R231	A-2
R232	A-2

HL-013 BOARD

C1701	A-1
CN1701	A-2
CN1702	B-1
CN1703	B-3
D1701	B-1
IC1701	A-1
R1701	B-1
R1702	B-1
R1703	B-1
R1704	A-1

ZM-030 BOARD

* BT801	A-6
* BT802	A-7
* CN801	A-8
D801	D-7
R801	D-4
R803	C-5
R804	C-4
R805	D-6
R806	C-5
R807	D-7
R809	C-4
S801	D-5
S802	D-1
S803	D-3
S804	D-2

MA-430 BOARD

* C1106	B-1	* D1112	B-2
* C1107	B-1	* D1116	A-2
* C1150	A-3		
* C1151	B-2	* IC1150	A-3
* C1152	B-3		
* C1153	A-3	* L1150	A-4
* C1154	A-2		
* C1155	A-2	* R1101	A-1
* C1156	A-3	* R1102	B-1
* C1157	A-2	* R1103	B-2
* C1158	A-3	* R1104	B-1
* C1159	B-3	* R1105	B-2
* C1160	B-2	* R1131	B-1
* C1162	A-3	* R1152	A-2
* C1163	B-3	* R1153	A-2
* C1165	A-3	* R1154	A-3
* C1166	B-3	* R1155	A-4
* C1167	A-3	* R1157	C-1
* C1168	A-2	* R1158	B-2
* C1169	B-3	* R1159	A-3
* C1170	A-2	* R1160	A-3
* C1171	A-3	* R1161	B-3
* C1172	B-3	* R1162	A-2
* C1173	B-4	* R1163	C-2
* C1175	A-3	* R1164	A-2
* C1177	A-4	* R1165	B-3
* C1178	B-3	* R1167	A-3
* C1179	A-3	* R1168	B-4
* C1180	B-3	* R1169	A-2
* C1181	A-4	* R1170	A-3
* C1182	A-4	* R1171	A-4
* C1183	A-3	* R1172	B-3
* C1184	A-4	* R1173	A-4
* C1185	A-2	* R1174	A-3
* C1186	A-2	* R1175	A-3
* C1187	B-4	* R1176	A-4
* C1188	A-4	* R1177	B-4
		* R1178	A-4
		* R1179	A-4
CN1100	D-1	* R1180	B-3
* CN1101	A-1	* R1181	B-3
CN1102	D-2	* R1182	A-3

D1104 D-5
* D1111 A-2

RM-091 BOARD

C1109	C-4
D1105	C-3
* D1106	A-4
* D1107	B-4
* D1108	A-4
* D1109	A-4
* D1110	A-4
IC1102	C-4
* Q1104	B-3
* R1121	B-3
* R1122	A-3
* R1123	A-3
R1125	C-4
* R1126	A-3
* R1127	B-3
* R1128	A-3
* R1129	A-3
* R1130	A-4
S1100	C-4

DD-216 BOARD

C300	A-4	D308	A-2	R302	B-4
* C301	A-8	D311	B-2	R303	A-3
* C302	A-8	D312	B-3	R304	B-4
* C303	A-8	D313	B-1	* R305	A-8
* C304	A-8	* D314	A-6	R306	A-3
* C305	A-8	* D315	C-6	* R307	A-8
* C307	A-9	* D316	A-6	* R308	A-8
C308	A-2			* R309	A-8
* C309	A-9	F300	A-3	R310	B-2
C310	A-2	F301	A-3	R311	B-2
* C311	A-8	F302	A-2	* R312	A-8
* C312	A-9	F303	A-2	* R313	A-8
C313	A-3	F304	A-3	* R314	A-8
C314	A-3	F305	A-3	* R315	A-8
* C315	A-8			* R316	A-8
C316	A-3	* IC300	A-8	* R317	A-9
* C317	B-9	* IC301	A-7	* R318	A-7
* C318	B-9			* R319	A-8
* C319	B-7	L300	B-3	* R320	A-9
* C320	B-9	L301	C-3	* R321	A-9
* C321	B-8	L302	C-2	* R322	A-9
C322	B-1	L303	C-3	* R323	A-9
C323	A-2	L304	C-3	* R324	A-9
C324	B-2	L305	C-3	* R325	A-9
* C325	B-9	L306	C-4	* R326	B-9
C326	A-1	L307	C-4	* R327	B-9
* C327	B-9	L308	C-4	* R328	A-7
* C328	B-8	L309	D-4	* R329	B-7
* C329	B-8	* L310	D-6	* R330	B-9
* C330	B-8	* L311	D-6	* R331	B-9
* C331	B-8	L312	D-4	* R332	A-7
* C332	B-7	* L313	D-6	* R333	B-9
* C333	C-8	L314	D-4	* R334	B-9
* C334	B-7	L315	D-5	* R335	B-9
* C335	C-7	* L316	D-6	* R336	A-9
* C336	C-7	L317	D-4	* R337	B-9
* C337	C-7	L318	D-4	* R338	B-9
* C338	A-7	L319	B-4	* R339	B-9
C339	A-1	L451	B-4	* R340	B-9
* C340	B-7			* R341	A-9
* C341	B-8	Q300	B-3	* R342	B-8
* C342	C-7	Q301	A-3	* R343	B-8
* C343	C-7	Q302	A-2	* R344	B-8
C344	C-7	Q303	A-2	* R345	B-8
* C345	C-8	Q304	A-3	R346	B-2
C346	B-2	Q305	B-1	R347	B-2
C349	B-2	Q306	A-2	* R348	B-8
C350	B-1	Q307	A-2	* R349	B-8
C351	C-4	Q308	B-2	* R350	A-9
C352	C-4	* Q309	C-8	* R351	A-9
* C353	C-6	* Q310	B-7	* R352	A-8
C354	C-4	* Q311	C-7	* R353	A-8
* C355	C-6	* Q312	C-7	* R354	A-8
C356	C-4	* Q313	C-7	* R355	D-6
C357	B-4	* Q314	C-7	* R356	D-6
C358	B-4	* Q315	A-9	R359	D-4
C359	C-4	Q316	A-2	* R360	E-6
* C360	C-6	* Q317	A-9	R362	D-4
C361	D-5	* Q318	C-8	* R363	A-6
* C362	A-6	* Q319	B-7	* R364	A-6
* C363	C-6	* Q320	C-7	* R365	D-6
C365	E-4	* Q321	C-7	R369	D-4
* C366	D-6	* Q322	C-7	R370	D-4
* C367	D-6	* Q323	C-7	R371	D-4
* C368	A-7	* Q324	A-9	* R372	E-6
C369	D-4	* Q325	D-6	* R373	D-6
C370	D-4	Q327	D-4	* R374	D-6
* C371	D-5	* Q329	A-6	* R375	B-8
* C372	D-6	Q331	D-4	* R376	D-6
* C373	C-5	Q332	D-4	* R377	B-8
C375	B-2	* Q333	E-6	* R378	D-6
C376	B-3	* Q334	E-6	R380	D-4
* C450	B-6	* Q335	E-6	* R381	D-6
		Q337	D-4	* R382	A-7
		* Q338	D-6	* R383	A-7
CN300	A-4	* Q339	A-6	* R384	A-7
CN301	A-4	* Q340	A-7	* R385	A-7
* CN450	B-6	* Q341	A-7	* R386	A-7
		* Q344	D-6	* R388	D-6
D300	A-3	* Q345	D-6	* R389	D-6
D301	B-4	* Q348	D-6	* R390	D-6
D302					

no mark : side A

* mark : side B

* R397	A-8
* R399	B-6
R400	B-2
* R401	A-6
* R456	B-6
T300	A-1
T301	B-2

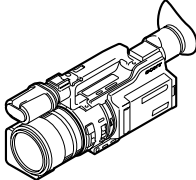
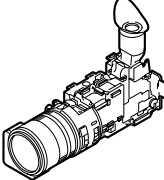
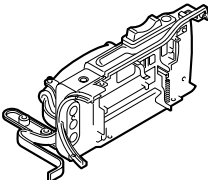
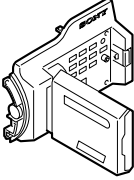
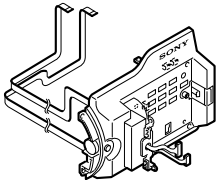
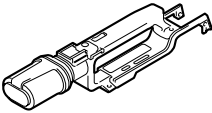
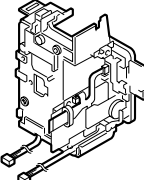
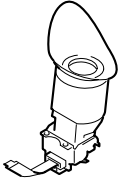
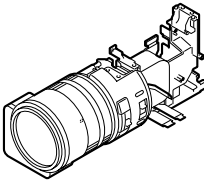
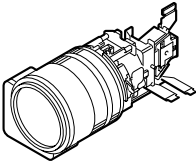
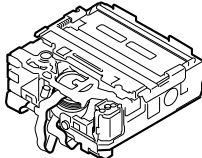
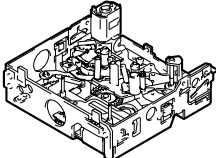
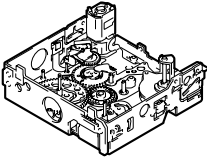
Mounted parts location of the VC-358 board is not shown.
Pages from 4-127 to 4-128 are not shown.

NOTE

5. REPAIR PARTS LIST (1/2)

TO (2/2) ▶

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			
				
OVERALL SECTION-1	OVERALL SECTION-2	CABINET (L) SECTION	CABINET (R) SECTION-1	
				
CABINET (R) SECTION-2	UPPER HANDLE SECTION	BATTERY PANEL SECTION	EVF SECTION	
				
CENTER FRAME SECTION	LENS BLOCK SECTION	CASSETTE COMPARTMENT, DRUM AND REEL TABLE ASSY	TAPE GUIDE, PINCH SLIDER ASSY AND BRAKE SLIDER ASSY	
				
EACH GEARS AND LOADING/CAPSTAN MOTOR ASSY				

NOTE

5. REPAIR PARTS LIST (2/2) TO (1/2)

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

ACCESSORIES

• CD-512 BOARD G	• JK-267 BOARD A	• MS-209 BOARD E
• CK-140 BOARD C	• KP-013 BOARD E	• PD-217 BOARD B
• DD-216 BOARD A	• LA-028 BOARD A	• SE-147 BOARD G
• FK-088 BOARD D	• LB-100 BOARD F	• VC-358 BOARD A
• FP-594 BOARD H	• MA-430 BOARD D	• ZM-030 BOARD D
• FT-092 BOARD D	• MI-050 BOARD D	• RM-091 BOARD D
• HL-013 BOARD B	• MK-016 BOARD E	

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
CH : Chinese model
HK : Hong Kong model
KR : Korea model
JE : Tourist 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.

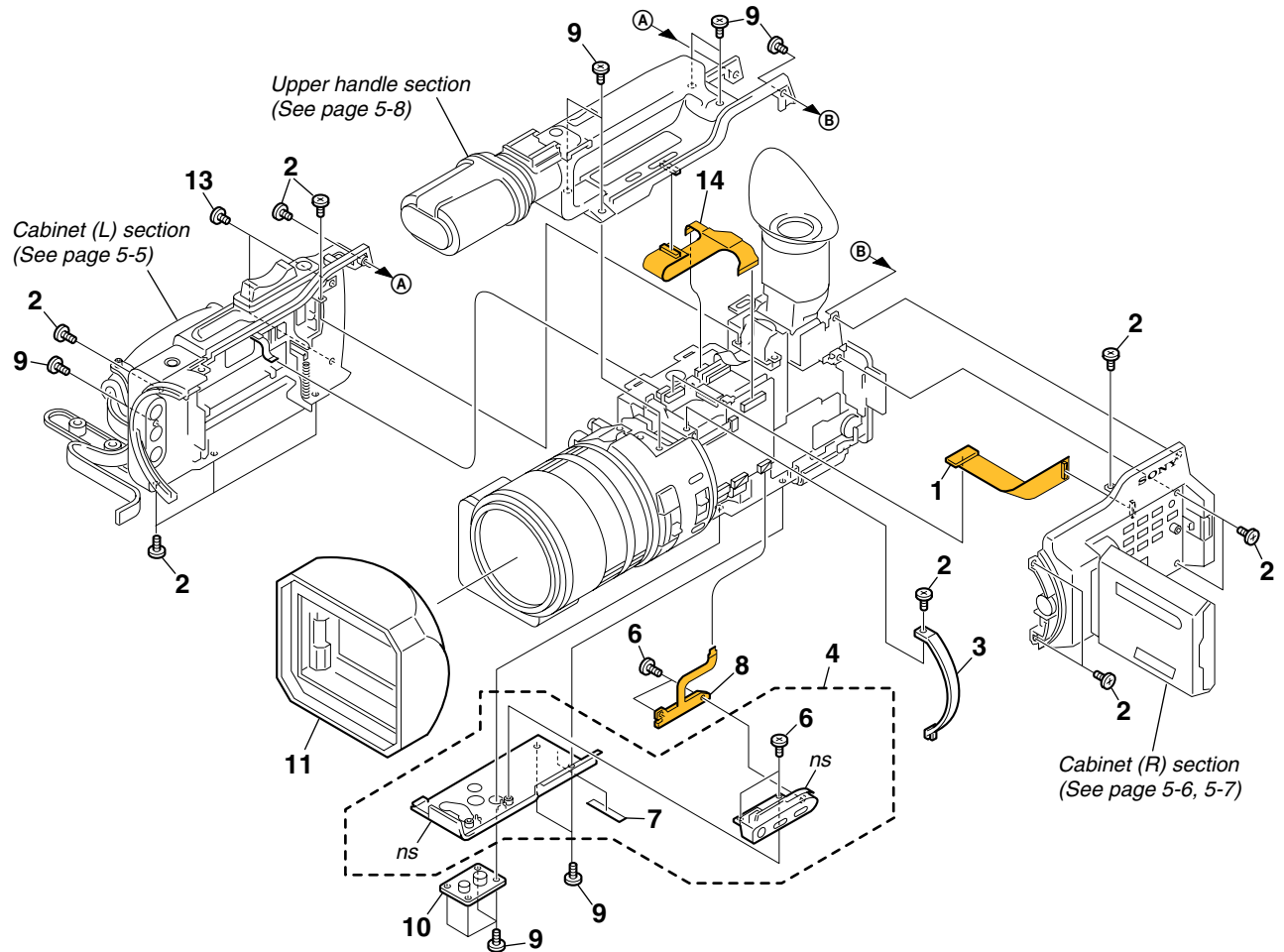
Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

5. REPAIR PARTS LIST

5-1. EXPLODED VIEWS

5-1-1. OVERALL SECTION-1

ns : not supplied



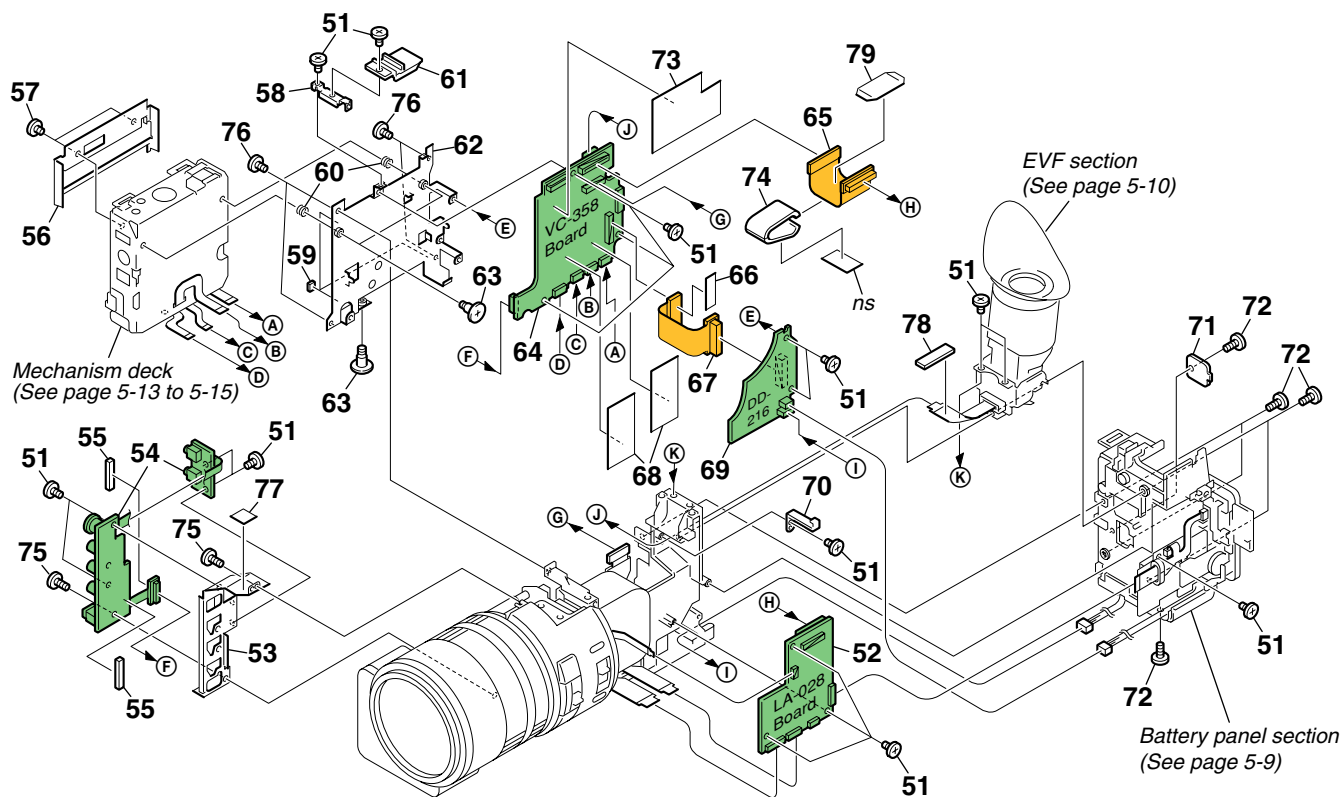
<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
1	1-678-055-21	FP-187 FLEXIBLE BOARD
2	3-053-121-21	BOLT (M2), SPRING
3	3-060-683-01	PLATE, CF ORNAMENTAL
4	X-3953-919-1	CABINET BOTTOM ASSY
6	3-080-205-21	SCREW,TAPPING,P2
7	3-062-455-01	FOOT (B), RUBBER

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
8	1-678-057-31	FP-189 FLEXIBLE BOARD
9	3-080-203-41	SREW(M2),LOCK ACE,P2
10	3-963-940-02	TABLE, TRIPOD
11	3-088-528-01	HOOD, LENS
13	3-053-121-31	BOLT (M2), SPRING
14	1-861-004-11	FP-895 FLEXIBLE BOARD

5. REPAIR PARTS LIST

5-1-2. OVERALL SECTION-2

ns : not supplied



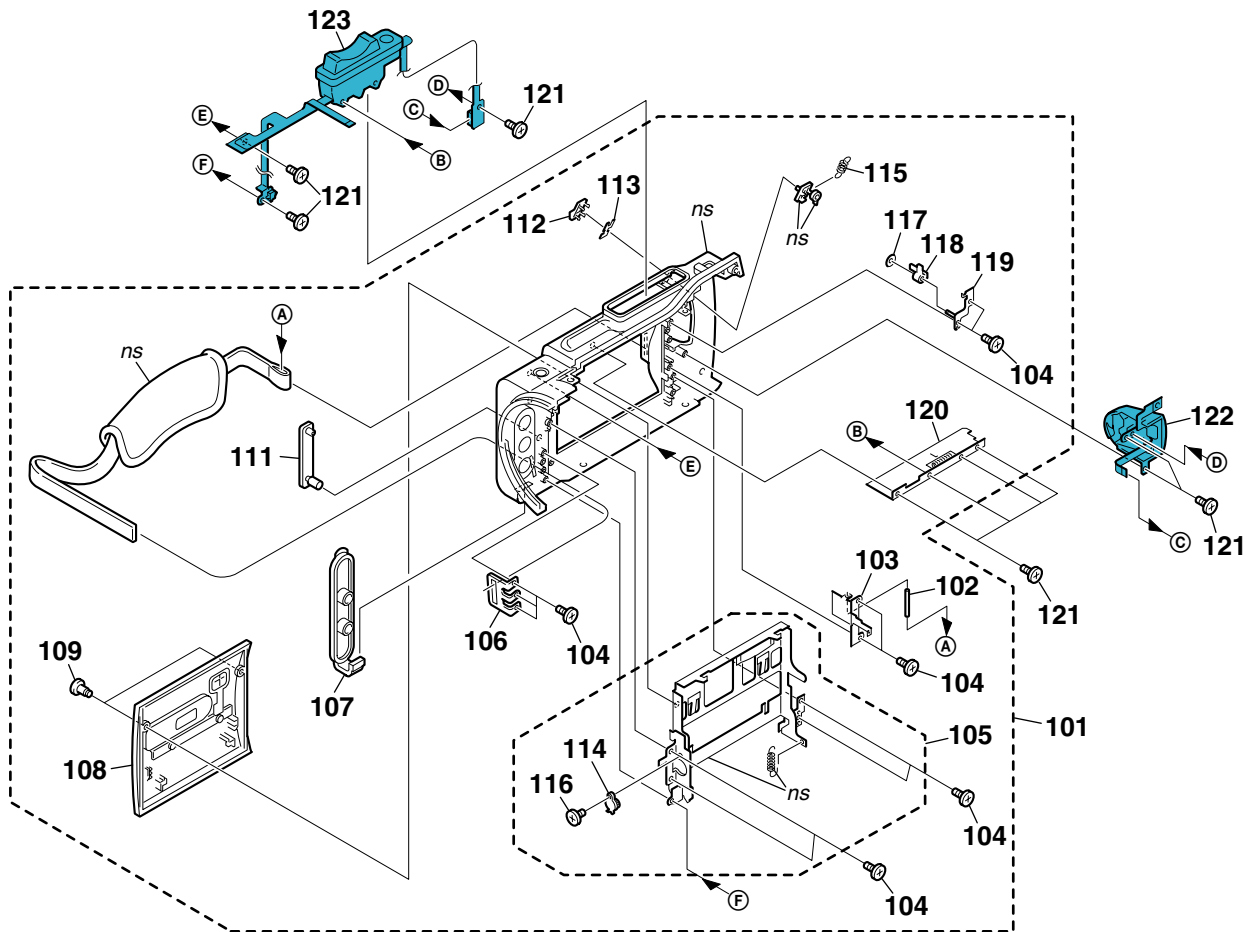
Ref. No.	Part No.	Description
51	3-080-202-21	SCREW(M2),LOCK ACE,P2
52	A-7078-946-A	LA-028 BOARD, COMPLETE
53	3-060-682-01	FRAME, JK
54	A-7078-952-A	JK-267 BOARD, COMPLETE
* 55	3-053-354-01	CUSHION, CD FLEXIBLE
56	3-060-673-01	LID, LD OUTER
57	3-080-203-01	SREW(M2),LOCK ACE,P2
58	3-060-684-01	JOINT, LA
59	3-975-921-01	SHEET, VIBRATION PROOF
60	3-061-679-02	SPRING, MD GROUND
61	3-060-789-01	RETAINER, FLEXIBLE
62	X-3950-571-1	FRAME ASSY, MD
63	3-988-464-11	SCREW (M2), STEP
64	A-7112-572-A	VC-358 BOARD, COMPLETE (SERVICE)
65	1-678-054-31	FP-186 FLEXIBLE BOARD

Ref. No.	Part No.	Description
66	3-061-053-01	SHEET, FP191
67	1-678-059-21	FP-191 FLEXIBLE BOARD
68	3-061-516-01	SHEET, RF FLEXIBLE
69	A-7078-941-A	DD-216 BOARD, COMPLETE
70	3-060-787-01	CLAMP, FLEXIBLE
71	3-060-677-11	COVER, CPC
72	3-080-203-41	SREW(M2),LOCK ACE,P2
* 73	3-062-779-01	SHEET (VC)
74	1-469-830-11	FILTER, EMI
75	3-053-121-21	BOLT (M2), SPRING
76	3-072-453-11	0 PLATE +2 MAIN M2 EG GRIP
* 77	3-062-739-01	SHEET (C), ABSORBING
* 78	3-066-153-01	SHEET (VI)
79	3-089-711-01	SHEET (FP-186), COPPER LEAF

5. REPAIR PARTS LIST

5-1-3. CABINET (L) SECTION

ns : not supplied



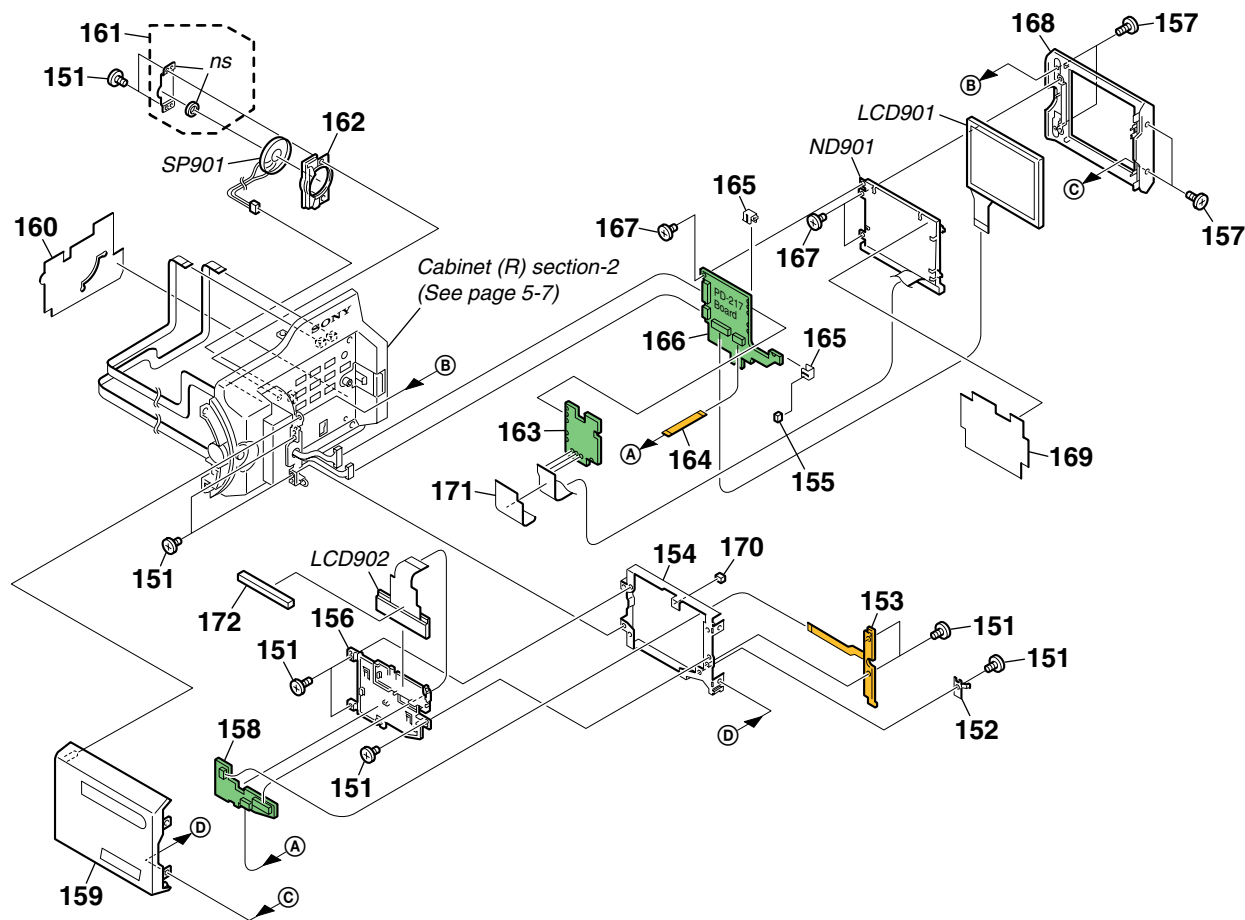
Ref. No.	Part No.	Description
101	X-3953-913-2	CABINET (L) ASSY
102	3-703-357-08	PIN (DIA. 1.6 SERISE)
103	3-060-550-02	BRACKET (REAR), GRIP
104	3-080-206-21	SCREW, TAPPING, P2
105	X-3950-561-1	CS ASSY
106	3-051-871-01	BRACKET (FRONT), BELT
107	3-060-540-21	COVER (AV), JACK
108	X-3953-910-1	LID ASSY, CASSETTE
109	3-060-790-11	SCREW (M2 STEP)
111	3-060-541-21	COVER (L), JACK
112	3-060-551-01	KNOB, EJECT

Ref. No.	Part No.	Description
113	3-060-549-01	SHEET, EJECT
* 114	4-634-290-01	DAMPER
115	3-060-554-01	SPRING, TENSION
116	3-968-729-81	SCREW (M2), LOCK ACE, P2
117	3-669-465-01	WASHER (1.5), STOPPER
118	3-060-553-01	LEVER, EJECT
119	X-3950-585-1	SHEET METAL ASSY, EJECT
120	X-3950-562-1	SLIDER ASSY
121	3-080-205-21	SCREW, TAPPING, P2
122	1-476-075-21	SWITCH BLOCK, CONTROL (PS-4980)
123	1-476-025-21	SWITCH BLOCK, CONTROL (CF-4980)

5. REPAIR PARTS LIST

5-1-4. CABINET (R) SECTION-1

ns : not supplied



Ref. No.	Part No.	Description
151	3-080-202-21	SCREW(M2),LOCK ACE,P2
* 152	3-060-698-01	RETAINER, BL
153	1-678-063-31	FP-196 FLEXIBLE BOARD
* 154	3-060-688-01	FRAME, LCD
155	3-061-509-01	PAD (RIGHT), PD
* 156	3-060-687-01	HOLDER, PANEL
157	3-080-203-41	SREW(M2),LOCK ACE,P2
158	A-7078-944-A	HL-013 BOARD, COMPLETE
159	X-3953-921-1	CABINET (C) ASSY, P (VX2100)
159	X-3953-922-1	CABINET (C) ASSY, P (VX2100E)
160	3-060-796-01	SHEET, R FLEXIBLE PROTECTION
* 161	X-3950-577-2	PLATE ASSY, SP RETAINER
* 162	3-060-686-01	HOLDER, SPEAKER
△ 163	1-418-876-11	TRANSFORMER UNIT, INVERTER

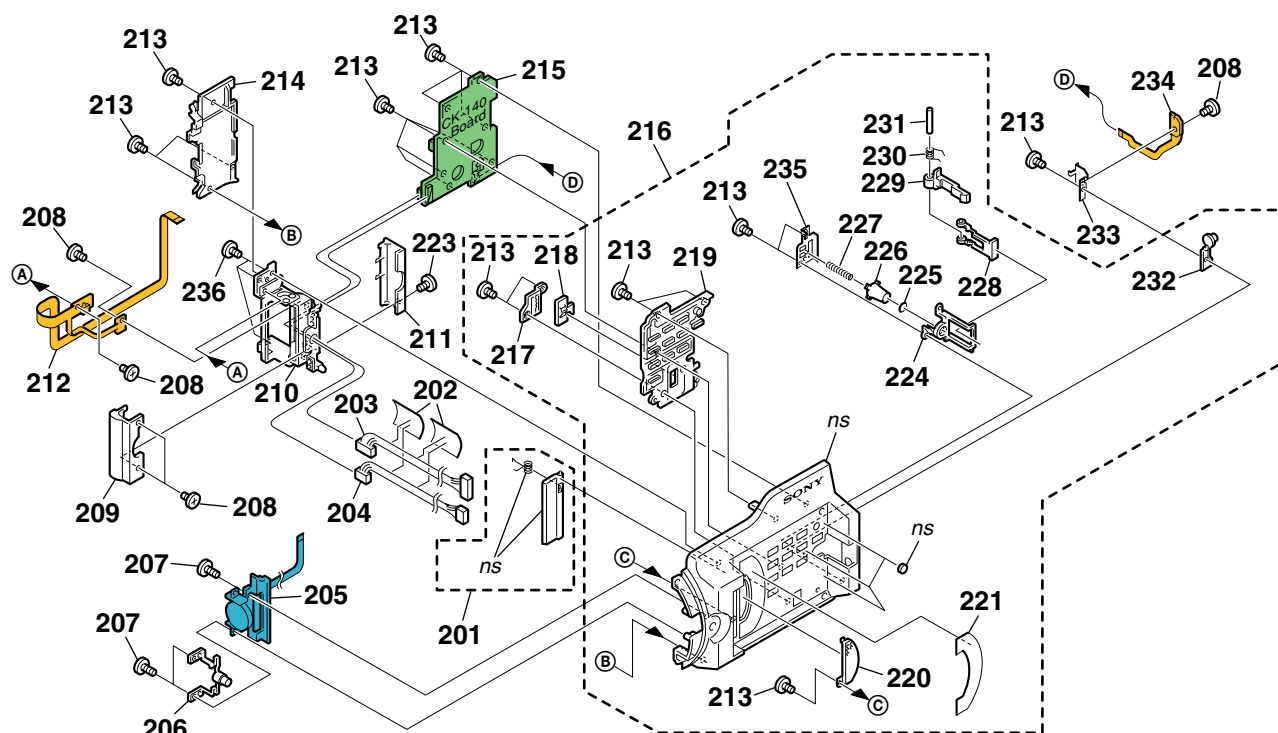
Ref. No.	Part No.	Description
164	1-678-062-21	FP-195 FLEXIBLE BOARD
* 165	3-051-232-01	CLIP, PCB
166	A-7078-956-A	PD-217 BOARD, COMPLETE
167	3-989-735-01	SCREW (M1.7), LOCK ACE, P2
168	X-3953-909-1	CABINET (M) ASSY, P
169	3-060-704-01	SHEET (N), BL SHIELD
170	3-061-510-01	PAD (UPPER), PD
* 171	3-062-196-01	SHEET, BL INSULATING
* 172	3-063-148-01	FOAM (SMALL), DUST PROTECTION
LCD901	8-753-209-13	ACX500ENA-J
LCD902	A-7095-909-A	PANEL BLOCK ASSY, INDICATION
△ ND901	1-517-931-21	TUBE, FLUORESCENT,COLD CATHODE
SP901	1-505-862-81	SPEAKER (2.0 CM)

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.
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5. REPAIR PARTS LIST

5-1-5. CABINET (R) SECTION-2

ns : not supplied



Ref. No.	Part No.	Description
201	X-3950-599-1	DOOR (D) ASSY, BLIND
202	3-060-795-01	TAPE, HARNESS FIXED
203	1-960-558-11	HARNESS (CP-094) 14P
204	1-960-557-11	HARNESS (CP-093) 8P
205	1-476-183-11	SWITCH BLOCK, CONTROL (ED-4980)
206	3-060-689-01	BUTTON, BRIGHT
207	3-053-121-21	BOLT (M2), SPRING
208	3-989-735-01	SCREW (M1.7), LOCK ACE, P2
209	3-060-693-21	COVER (FRONT), HINGE
210	X-3950-576-1	HINGE ASSY
211	3-060-694-11	COVER (REAR), HINGE
212	1-678-064-31	FP-197 FLEXIBLE BOARD
213	3-080-202-21	SCREW (M2), LOCK ACE, P2
* 214	3-060-690-01	LID, HINGE
215	A-7078-940-A	CK-140 BOARD, COMPLETE
216	X-3953-907-1	CABINET (R) ASSY
* 217	3-060-640-01	COVER, ZEBRA KNOB
218	3-060-644-21	KNOB, ZEBRA

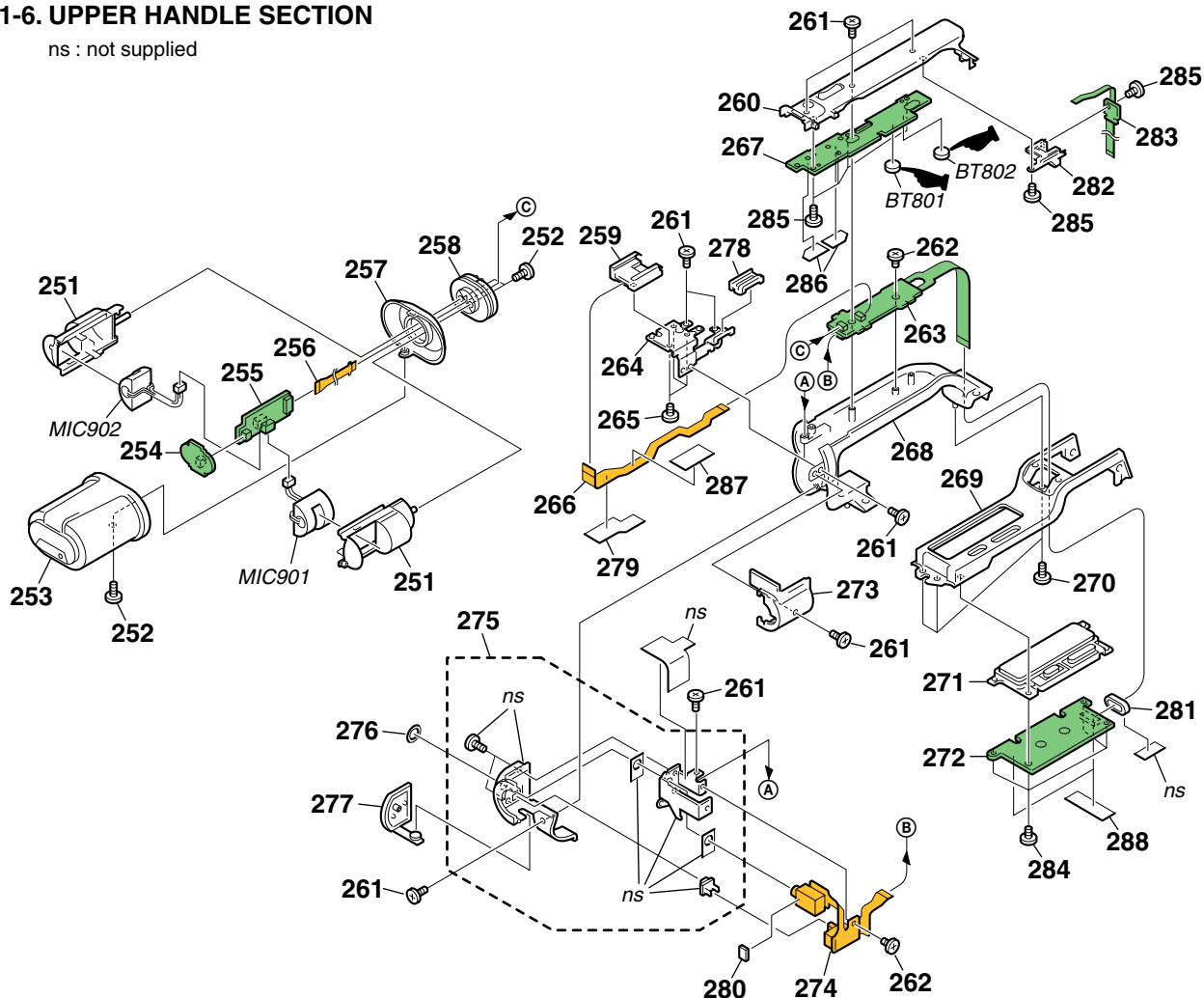
Ref. No.	Part No.	Description
219	3-060-636-21	BUTTON, R
220	3-060-637-11	GRILLE, SPEAKER
221	3-060-639-11	SHEET, PROTECTION
223	3-080-198-11	SCREW (M1.7), LOCK ACE, P2
224	3-060-630-21	BASE, PANEL LOCK
225	3-060-641-02	PAD, PANEL (POP) UP
226	3-060-632-31	UP, PANEL (POP)
227	3-060-633-01	SPRING, COMPRESSION
228	3-060-638-01	KNOB, PANEL LOCK
229	3-060-643-21	CLAW, PANEL LOCK
230	3-060-634-01	SPRING, PANEL LOCK
231	3-060-635-01	SHAFT, PANEL LOCK
232	3-060-642-01	BUTTON, MENU
* 233	3-060-691-01	BRACKET, MENU BUTTON
234	1-678-061-31	FP-194 FLEXIBLE BOARD
* 235	3-060-631-01	BRACKET, PANEL LOCK
236	3-053-121-11	BOLT (M2), SPRING

5. REPAIR PARTS LIST

DCR-VX2100/VX2100E

5-1-6. UPPER HANDLE SECTION

ns : not supplied



 : BT801, BT802 (Lithium battery) ZM-030 board on the mount position. (See page 4-109)

CAUTION :

For the parts of 288: TAPE (A) (3-941-343-01) cut WOVEN (T0.25), FABRIC NON (3-076-631-01) into the desired length and use it.

CAUTION :

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

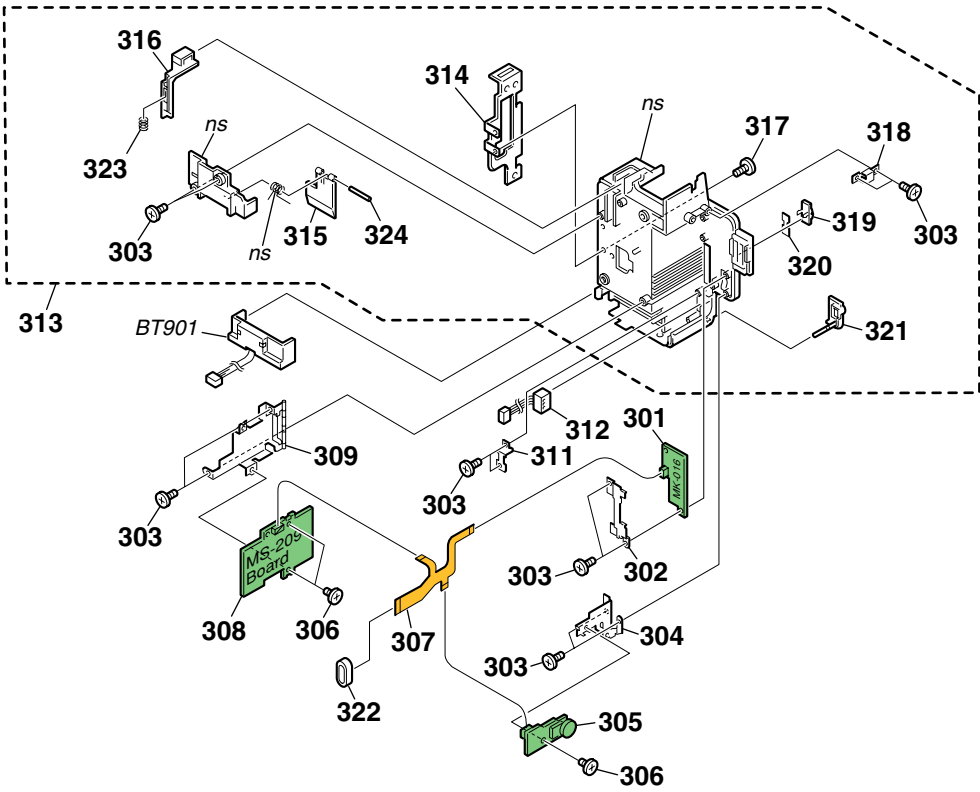
Ref. No.	Part No.	Description
251	3-963-968-01	CASE, MICROPHONE
252	3-080-206-21	SCREW, TAPPING, P2
253	X-3954-004-1	MASK ASSY, MICROPHONE
254	A-7078-943-A	FT-092 BOARD, COMPLETE
255	A-7078-947-A	MI-050 BOARD, COMPLETE
256	1-861-003-11	FP-894 FLEXIBLE BOARD
257	3-060-706-11	COVER, MICROPHONE
258	X-3945-076-1	NECK ASSY, RUBBER
259	1-785-594-11	CONNECTOR (HOT SHOE), OUTER
260	X-3953-900-1	COVER ASSY, HANDLE
261	3-080-203-41	SREW(M2),LOCK ACE,P2
262	3-080-202-21	SCREW(M2),LOCK ACE,P2
263	A-7078-954-A	MA-430 BOARD, COMPLETE
264	3-087-547-01	SHEET METAL, STRAP
265	3-989-735-01	SCREW (M1.7), LOCK ACE, P2
266	1-861-005-11	FP-896 FLEXIBLE BOARD
267	A-7078-951-A	ZM-030 BOARD, COMPLETE
268	X-3954-048-1	HANDLE ASSY
269	3-060-786-31	CABINET (UPPER)
270	3-053-121-21	BOLT (M2), SPRING

Ref. No.	Part No.	Description
271	X-3950-600-1	FRAME (D) ASSY, FK
272	A-7078-942-A	FK-088 BOARD, COMPLETE
273	3-087-546-01	CABINET (L), MIC
274	1-861-002-11	FP-893 FLEXIBLE BOARD
275	X-3953-902-1	CABINET (R) ASSY, MIC
276	3-061-234-01	NUT (M6X0.5)
277	3-060-707-11	COVER, MJ
278	3-087-556-01	CAP (ST)
* 279	3-061-626-01	SHEET, MA SHIELD
* 280	3-061-511-01	SPACER, MICROPHONE
281	1-469-829-11	CORE, FERRITE
282	X-3953-946-1	HOLDER ASSY, RM FIXED
283	A-7078-955-A	RM-091 BOARD, COMPLETE
284	3-053-121-11	BOLT (M2), SPRING
285	3-080-205-21	SCREW, TAPPING, P2
286	3-088-405-01	SHEET (ZM), ABSORBING
287	3-088-937-01	SHEET (F) ABSORBING
288	CAUTION	TAPE(A)
MIC901	1-542-263-21	MICROPHONE UNIT (L)
MIC902	1-542-263-21	MICROPHONE UNIT (R)

5. REPAIR PARTS LIST

5-1-7. BATTERY PANEL SECTION

ns : not supplied



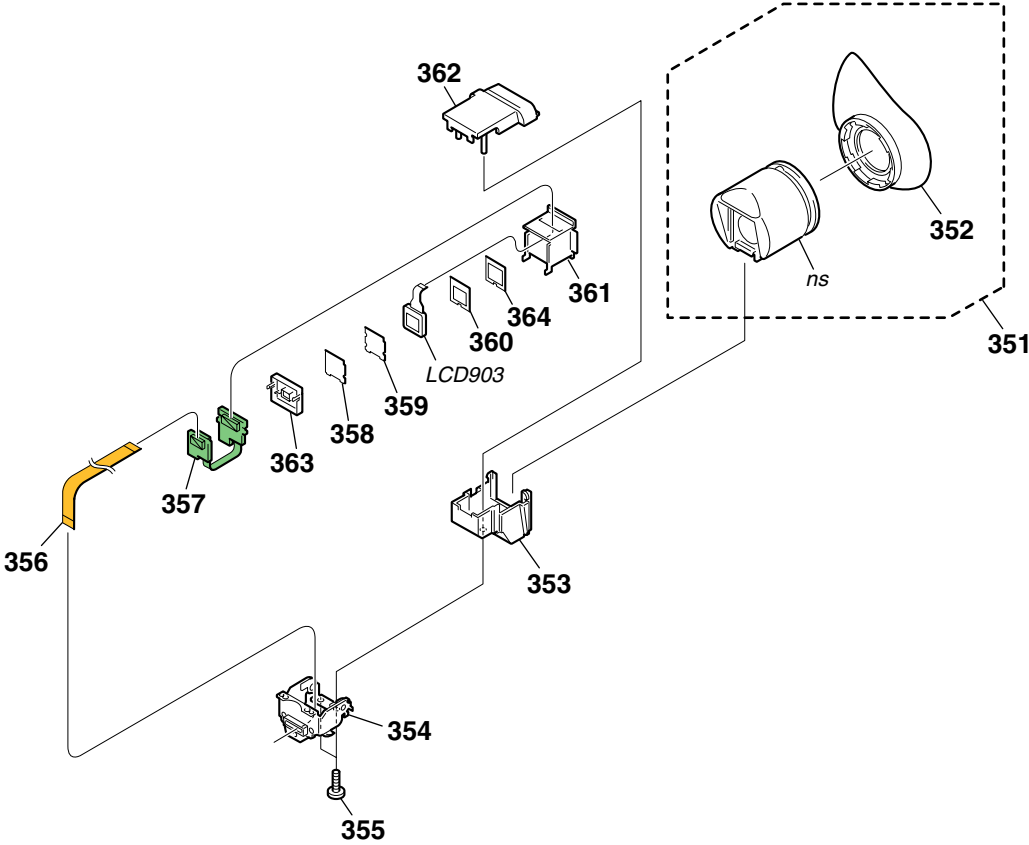
Ref. No.	Part No.	Description
301	A-7078-948-A	MK-016 BOARD, COMPLETE
* 302	3-060-678-01	RETAINER, MK
303	3-080-205-21	SCREW,TAPPING,P2
* 304	3-060-679-01	HOLDER, KP
305	A-7078-945-A	KP-013 BOARD, COMPLETE
306	3-080-202-21	SCREW(M2),LOCK ACE,P2
307	1-678-058-21	FP-190 FLEXIBLE BOARD
308	A-7078-949-A	MS-209 BOARD, COMPLETE
309	X-3950-589-1	HOLDER ASSY, MS
* 311	3-060-680-01	RETAINER, DC JACK
312	1-794-637-21	CONNECTOR, DC-IN
313	X-3953-904-1	PANEL ASSY, BATTERY

Ref. No.	Part No.	Description
314	3-060-592-01	BRACKET (R), S BELT
315	3-060-595-01	CLAW, BT LOCK
316	3-060-594-21	LEVER, BT RELEASE
317	3-080-203-41	SREW(M2),LOCK ACE,P2
* 318	3-060-774-01	JOINT, BT-R
319	3-060-598-01	BUTTON, AL
320	3-060-776-01	SHEET, AL
321	3-060-773-11	COVER, DC JACK
322	1-469-829-11	CORE, FERRITE
323	3-968-771-01	SPRING, COMPRESSION
324	3-968-770-01	SHAFT, BT
BT901	1-694-411-11	TERMINAL BOARD, BATTERY

5. REPAIR PARTS LIST

5-1-8. EVF SECTION

ns : not supplied



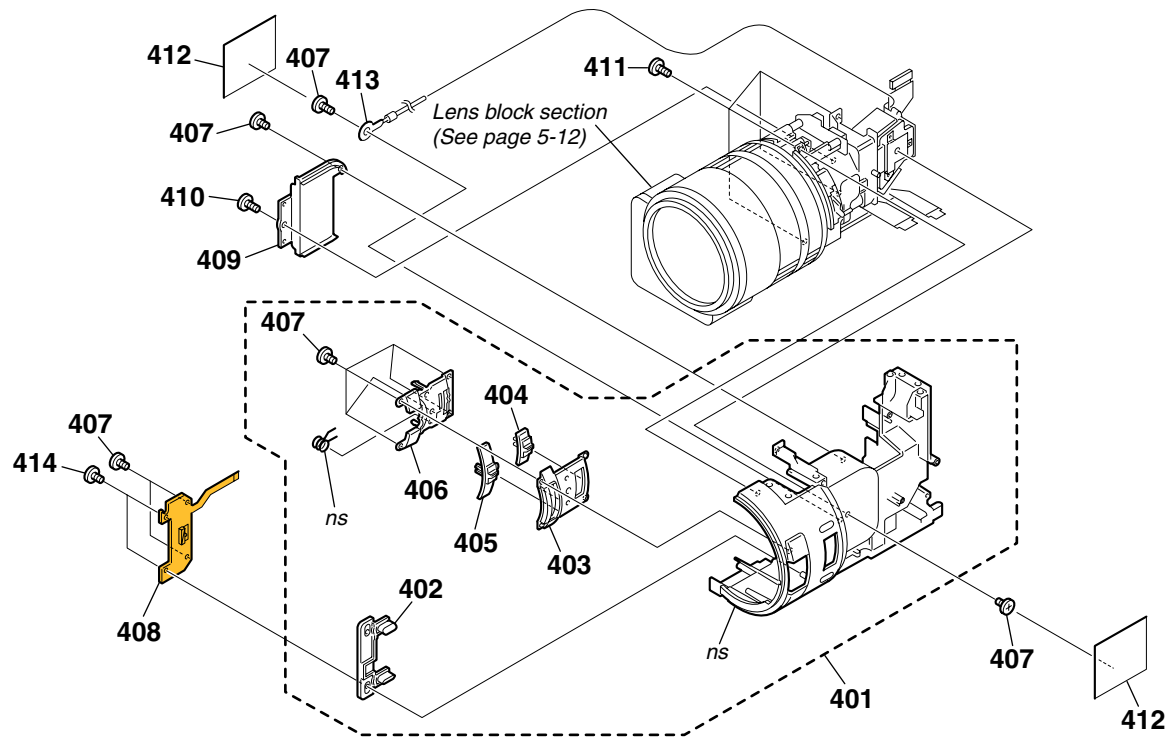
Ref. No.	Part No.	Description
351	X-3953-896-1	CABINET ASSY, VF (REAR)
352	3-087-515-01	EYE CUP
353	X-3953-895-1	CABINET (LOWER) ASSY,VF(FRONT)
354	X-3950-565-1	HINGE ASSY, VF
355	3-080-204-51	SCREW, TAPPING, P2
356	1-678-060-21	FP-193 FLEXIBLE BOARD
357	A-7078-953-A	LB-100 BOARD, COMPLETE
358	3-072-211-01	ILLUMINATOR

Ref. No.	Part No.	Description
359	3-072-210-01	SHEET, PRISM
360	3-087-530-01	SHEET, LIGHT INTERCEPTION
361	X-3953-897-1	HOLDER ASSY, LCD
362	3-087-528-01	CABINET (UPPER), VF (FRONT)
363	3-072-214-01	GUIDE (20), LAMP
364	3-087-529-01	CUSHION, LCD
LCD903	8-753-036-72	LCX033ANA-1

5. REPAIR PARTS LIST

5-1-9. CENTER FRAME SECTION

ns : not supplied



Ref. No.	Part No.	Description
401	X-3953-917-1	FRAME ASSY, CENTER
402	3-060-620-01	BUTTON, IP
403	3-060-621-11	ESCUTCHEON
404	3-060-622-01	KNOB, MF
405	3-060-619-01	KNOB, ND
406	3-060-623-01	COVER, BUTTON
407	3-080-202-21	SCREW(M2),LOCK ACE,P2

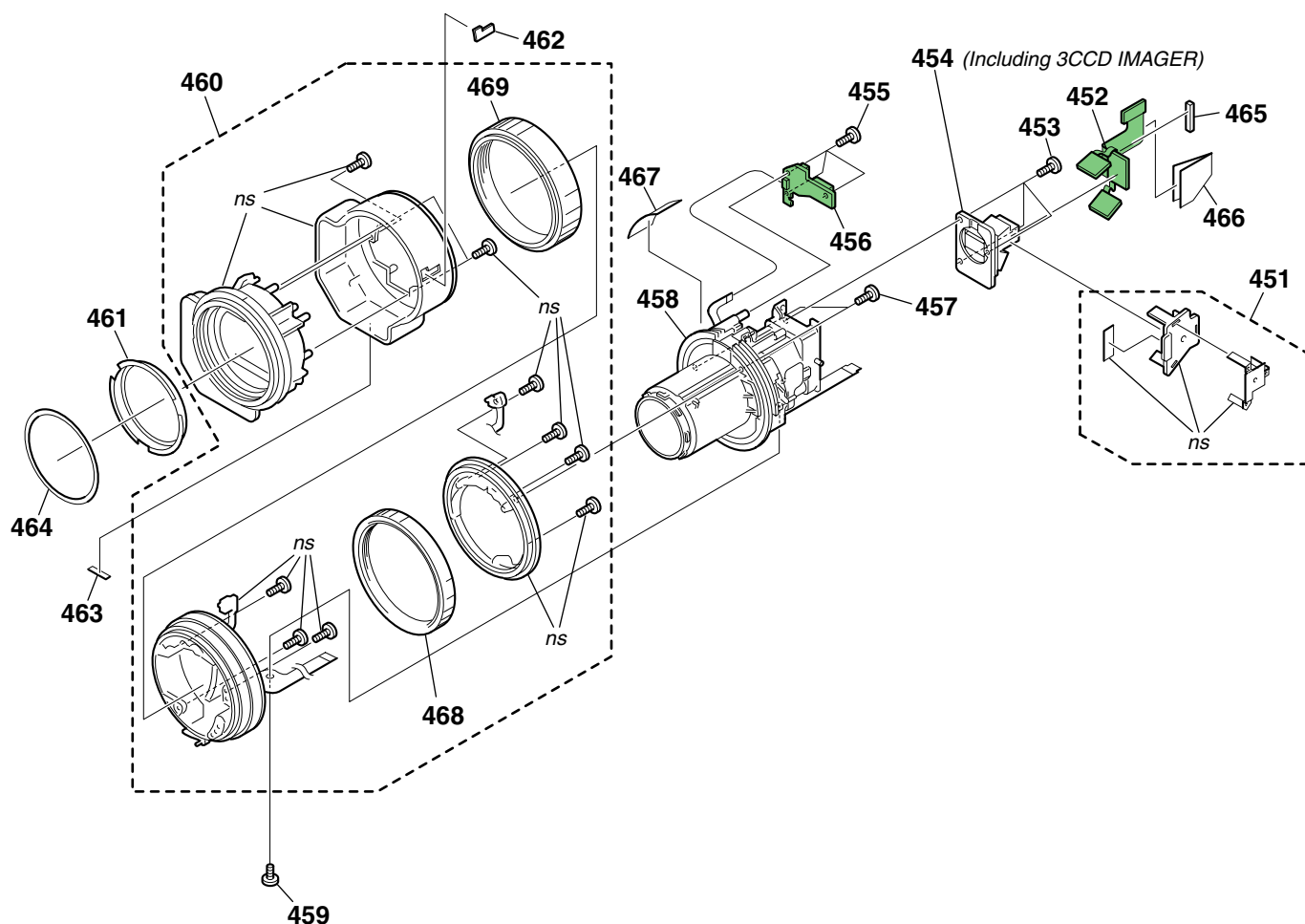
Ref. No.	Part No.	Description
408	1-678-056-31	FP-188 FLEXIBLE BOARD
409	3-060-685-01	COVER, CCD
410	3-080-205-21	SCREW, TAPPING, P2
411	3-072-453-01	O PLATE +P2 MAIN M2 EG GRIP
412	3-060-795-01	TAPE, HARNESS FIXED
413	1-960-654-21	HARNESS (CJ-064)
414	3-080-203-31	SREW(M2),LOCK ACE,P2

5. REPAIR PARTS LIST

DCR-VX2100/VX2100E

5-1-10. LENS BLOCK SECTION

ns : not supplied

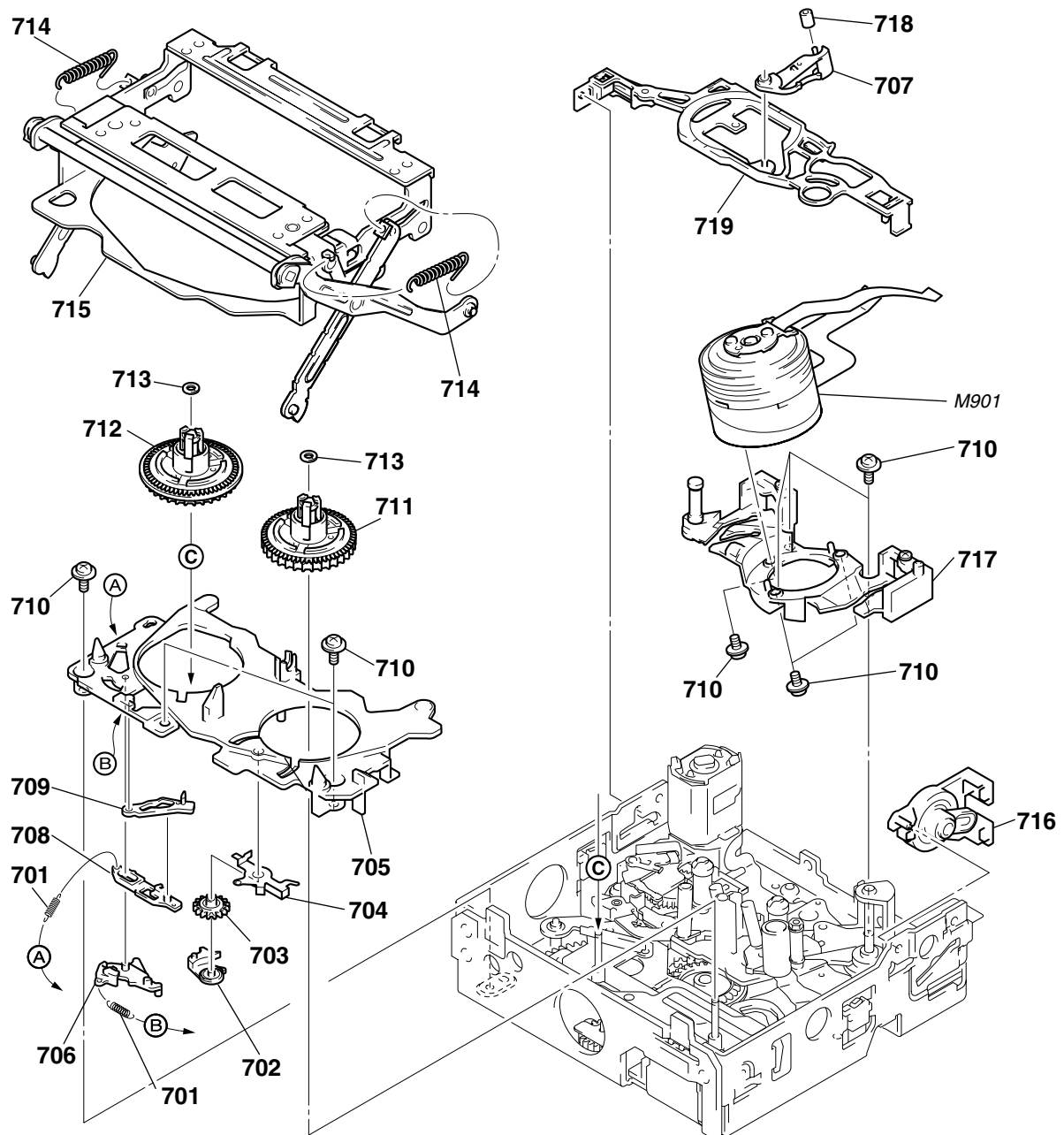


Be sure to read "Precautions upon replacing CCD imager" on page 4-12 when changing the CCD imager.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
451	X-3950-586-1	COVER ASSY, PRISM	460	3-709-595-32	VAP ASSY
452	A-7078-938-A	CD-512 BOARD, COMPLETE	461	3-709-594-01	RING ASSY, GLASS ORNAMENTAL
454	A-7031-100-A	PRISM ASSY (SERVICE) (INCLUDING 3CCD IMAGER) (VX2100)	462	3-963-933-01	EMBLEM, CCD
454	A-7031-101-A	PRISM ASSY (SERVICE) (INCLUDING 3CCD IMAGER) (VX2100E)	463	3-062-454-01	FOOT (A), RUBBER
455	3-080-205-21	SCREW, TAPPING, P2	464	3-060-681-01	RING, NAME
456	A-7078-950-A	SE-147 BOARD, COMPLETE	* 465	3-053-354-01	CUSHION, CD FLEXIBLE
457	3-948-339-31	SCREW, TAPPING	* 466	3-062-778-01	SHEET (CD)
458	3-709-596-03	LENS ASSY, ZOOM	467	3-060-795-01	TAPE, HARNESS FIXED
459	3-713-791-91	SCREW (M1.7)	468	9-913-200-10	RUBBER, ZOOM
			469	9-913-200-11	RUBBER, FOCUS

5. REPAIR PARTS LIST

5-1-11. CASSETTE COMPARTMENT, DRUM AND REEL TABLE ASSEMBLY

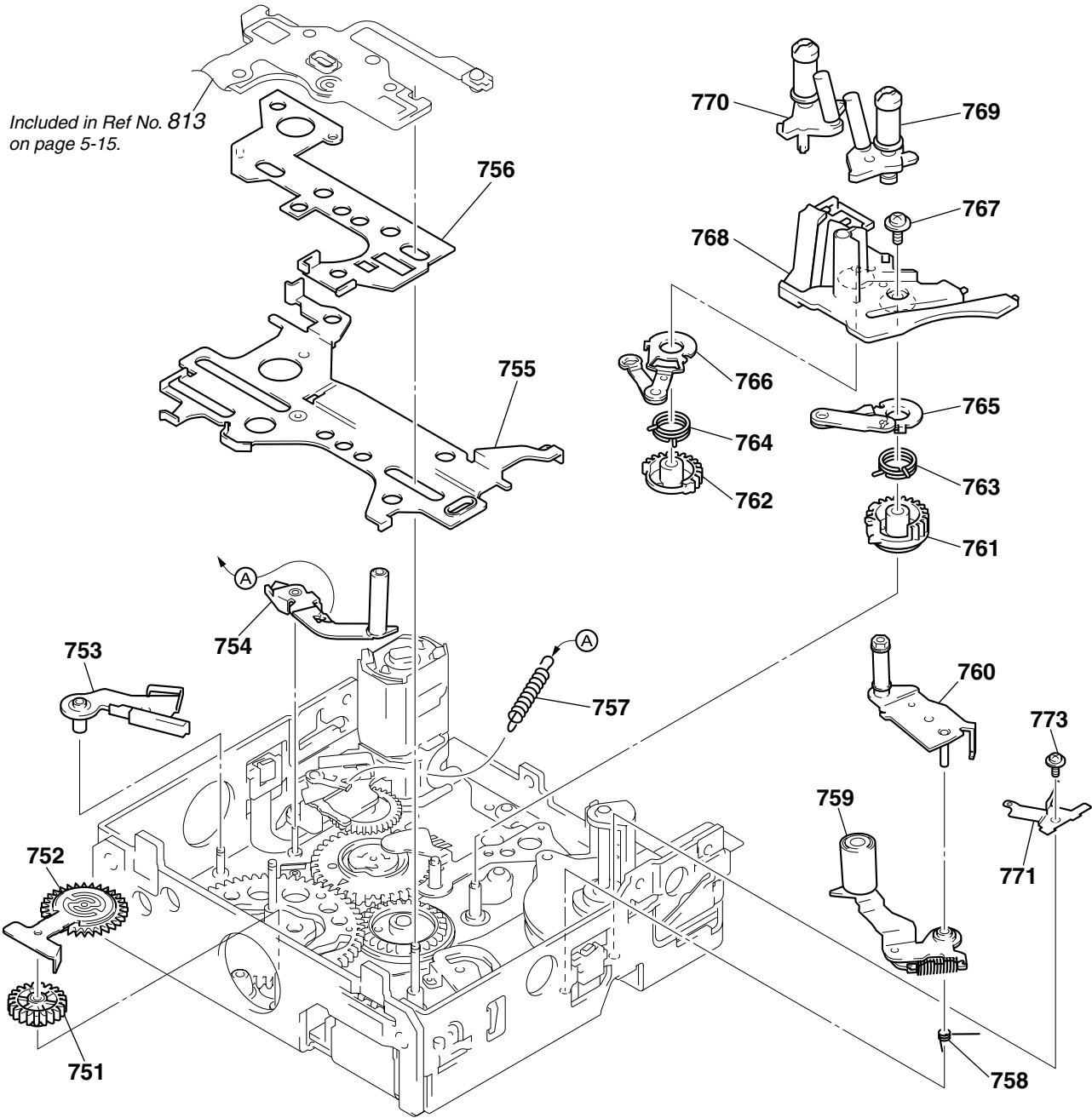


Ref. No.	Part No.	Description
701	3-988-312-01	SPRING, EXTENSION
702	3-988-220-01	BRAKE (T)
703	3-988-221-01	GEAR (T), BRAKE
704	3-988-222-01	SPRING (T), BRAKE
705	3-988-215-02	BASE, CASSETTE
706	3-988-217-01	ARM (S), RESET
707	3-988-281-02	ARM, HC
708	3-988-219-01	RACK (S), BRAKE
709	3-988-218-01	BRAKE (S)
710	3-947-503-01	SCREW (M1.4)

Ref. No.	Part No.	Description
711	X-3948-445-7	TABLE (T) ASSY, REEL
712	X-3948-444-1	TABLE (S) ASSY, REEL
713	3-989-465-01	WASHER, STOPPER
714	3-988-298-01	SPRING EXTENSION
715	X-3948-441-9	CASSETTE COMPARTMENT ASSY
716	X-3948-443-2	DAMPER ASSY
717	A-7093-612-A	DRUM BASE BLOCK ASSY
718	3-988-282-01	ROLLER, HC
719	3-988-283-01	STOPPER, TAPE FALL
M901	A-4900-079-A	DRUM ASSY (DEH-11B/J-RP) (SERVICE)

5. REPAIR PARTS LIST

5-1-12. TAPE GUIDE, PINCH SLIDER ASSEMBLY AND BRAKE SLIDER ASSEMBLY



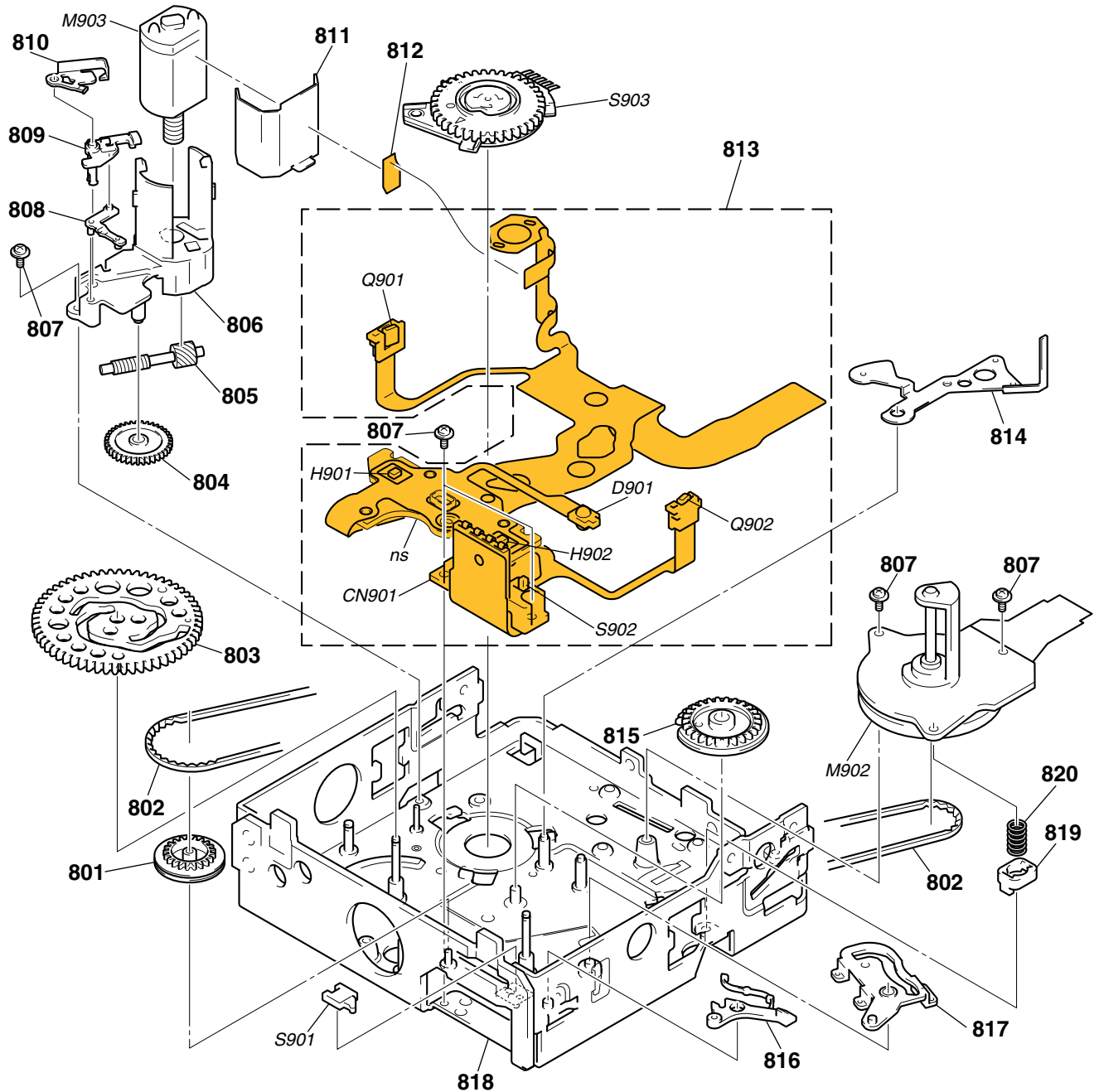
Ref. No.	Part No.	Description
751	3-988-263-01	GEAR, RELAY
752	X-3948-442-2	GEAR ASSY, GOOSENECK
753	X-3948-435-2	PLATE ASSY, TG1 ADJUSTMENT
754	X-3948-434-1	ARM ASSY, TG1
755	X-3948-428-5	SLIDER ASSY, PINCH
756	X-3948-766-1	SLIDER ASSY, BRAKE
757	3-988-270-01	SPRING (TG1), TENSION COIL
758	3-988-233-01	SPRING (TG7LD), TORSION
759	X-3948-433-2	ARM ASSY, PINCH
760	A-7093-501-A	ARM BLOCK ASSY, TG7
761	3-988-257-02	GEAR (T), GL

Ref. No.	Part No.	Description
762	3-988-252-03	GEAR (S), GL
763	3-988-258-01	SPRING (GLT), TORSION
764	3-988-253-01	SPRING (GLS), TORSION
765	X-3948-440-1	ARM (T) ASSY, GL
766	X-3948-439-3	ARM (S) ASSY, GL
767	3-947-503-01	SCREW (M1.4)
768	3-988-242-01	RAIL, GUIDE
769	X-3948-438-3	COASTER (T) ASSY
770	X-3948-934-4	COASTER (S2) ASSY
771	3-988-690-02	SPRING, TG7 RETAINER
773	3-053-083-01	SCREW

5. REPAIR PARTS LIST

5-1-13. EACH GEARS AND LOADING/CAPSTAN MOTOR ASSEMBLY

ns : not supplied



Ref. No.	Part No.	Description
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801	3-988-274-01	PULLEY, CONVERSION
802	3-988-276-02	BELT, TIMING
803	3-988-216-01	GEAR, CAM
804	3-988-211-01	GEAR, DECELERATION
805	3-988-210-01	SHAFT, WORM
806	3-988-207-01	HOLDER, MOTOR
807	3-947-503-01	SCREW (M1.4)
808	3-988-303-01	ARM, SPRING HOOK DRIVING
809	3-988-271-01	BASE, SPRING HOOK FULCRUM
810	3-988-302-01	HOOK, TG1 SPRING

811	3-988-208-01	SHIELD, MOTOR
812	1-657-785-11	FP-248 FLEXIBLE BOARD (DEW SENSOR)
813	A-7073-418-A	FP-594 FLEXIBLE BOARD, COMPLETE
814	3-988-280-03	ARM, HC DRIVING
815	3-988-239-01	GEAR, GL DRIVING

816	3-988-223-01	ARM, EJECT
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Ref. No.	Part No.	Description
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817	3-988-224-01	ARM, PINCH PRESS
818	X-3948-431-2	CHASSIS ASSY
819	3-050-170-01	HOLDER
820	3-051-787-02	SPRING (CAP), COMPRESSION COIL
CN901	1-784-723-11	PIN, CONNECTOR 4P
D901	8-719-067-13	DIODE GL453K
H901	8-719-061-28	DIODE HW-105C-FT-V (S REEL)
H902	8-719-061-28	DIODE HW-105C-FT-V (T REEL)
Q901	6-600-109-01	PHOTO TRANSISTOR PT4800FB (TAPE END)
Q902	6-600-109-01	PHOTO TRANSISTOR PT4800FB (TAPE TOP)

S901	1-771-039-51	SWITCH, PUSH (CASSETTE IN)
S902	1-572-719-32	SWITCH, PUSH (1 KEY) (REC PROOF)
S903	1-771-325-11	ENCODER, ROTARY (SWITCH) (MODE)
M902	8-835-606-01	MOTOR, DC SCD15A/C-NP (CAPSTAN)
M903	X-3948-346-1	MOTOR ASSY, L (LOADING)

5-2. ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description
A-7078-938-A	CD-512 BOARD, COMPLETE	*****
(IC100,IC101,IC102 are not included in this completed board.)		
(IC100,IC101,IC102 are included in PRISM ASSY.)		
(A-7031-100-A is supplied with VX2100 and		
A-7031-101-A is supplied with VX2100E.)		
< CAPACITOR >		
C100	1-107-826-11	CERAMIC CHIP 0.1uF 10.00% 16V
C101	1-107-826-11	CERAMIC CHIP 0.1uF 10.00% 16V
C102	1-119-751-11	TANTAL. CHIP 22uF 20.00% 16V
C103	1-119-751-11	TANTAL. CHIP 22uF 20.00% 16V
C104	1-127-760-11	CERAMIC CHIP 4.7uF 10% 6.3V
C105	1-127-760-11	CERAMIC CHIP 4.7uF 10% 6.3V
C108	1-117-919-11	TANTAL. CHIP 10uF 20.00% 6.3V
C109	1-107-686-11	TANTAL. CHIP 4.7uF 20.00% 16V
C110	1-127-760-11	CERAMIC CHIP 4.7uF 10% 6.3V
C111	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C112	1-107-686-11	TANTAL. CHIP 4.7uF 20.00% 16V
C113	1-117-919-11	TANTAL. CHIP 10uF 20.00% 6.3V
C114	1-107-686-11	TANTAL. CHIP 4.7uF 20.00% 16V
C115	1-117-919-11	TANTAL. CHIP 10uF 20.00% 6.3V
C117	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C118	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C119	1-119-751-11	TANTAL. CHIP 22uF 20.00% 16V
C120	1-107-826-11	CERAMIC CHIP 0.1uF 10.00% 16V
C130	1-107-826-11	CERAMIC CHIP 0.1uF 10.00% 16V
C131	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V
C132	1-107-826-11	CERAMIC CHIP 0.1uF 10.00% 16V
C133	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V
C134	1-162-966-11	CERAMIC CHIP 0.0022uF 10% 50V
C135	1-107-826-11	CERAMIC CHIP 0.1uF 10.00% 16V
< CONNECTOR >		
CN100	1-778-078-21	CONNECTOR, BOARD TO BOARD 50P
< IC >		
IC100	not supplied	CCD IMAGER (ICX246AL-13) (VX2100)
IC100	not supplied	CCD IMAGER (ICX247AL-13) (VX2100E)
IC101	not supplied	CCD IMAGER (ICX246AL-13) (VX2100)
IC101	not supplied	CCD IMAGER (ICX247AL-13) (VX2100E)
IC102	not supplied	CCD IMAGER (ICX246AL-13) (VX2100)
IC102	not supplied	CCD IMAGER (ICX247AL-13) (VX2100E)
IC103	8-759-561-46	IC AD8014ARTZ-REEL7
IC104	8-759-561-46	IC AD8014ARTZ-REEL7
IC105	8-759-561-46	IC AD8014ARTZ-REEL7
< COIL >		
L100	1-412-963-11	INDUCTOR 100uH
L101	1-412-963-11	INDUCTOR 100uH
L104	1-412-963-11	INDUCTOR 100uH
L105	1-412-963-11	INDUCTOR 100uH
L106	1-412-963-11	INDUCTOR 100uH
L107	1-412-963-11	INDUCTOR 100uH

Be sure to read “Precautions upon replacing CCD imager” on page 4-12 when changing the CCD imager.

Ref. No.	Part No.	Description			
< RESISTOR >					
R100	1-218-962-11	RES-CHIP	5.6K	5%	1/16W
R101	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R102	1-218-962-11	RES-CHIP	5.6K	5%	1/16W
R103	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R104	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R105	1-218-962-11	RES-CHIP	5.6K	5%	1/16W
R106	1-218-953-11	RES-CHIP	1K	5%	1/16W
R107	1-218-940-11	RES-CHIP	82	5%	1/16W
R108	1-218-953-11	RES-CHIP	1K	5%	1/16W
R109	1-218-940-11	RES-CHIP	82	5%	1/16W
R110	1-218-953-11	RES-CHIP	1K	5%	1/16W
R111	1-218-940-11	RES-CHIP	82	5%	1/16W
R112	1-220-210-11	RES-CHIP	200K	5%	1/16W
R113	1-220-210-11	RES-CHIP	200K	5%	1/16W
R114	1-220-210-11	RES-CHIP	200K	5%	1/16W
A-7078-940-A CK-140 BOARD, COMPLETE					

3-051-919-01 SHEET, LI PROTECTION					
< CONNECTOR >					
CN250	1-784-995-21	CONNECTOR, BOARD TO BOARD 50P			
CN251	1-794-378-21	PIN, CONNECTOR 14P			
CN252	1-794-377-21	PIN, CONNECTOR 8P			
CN253	1-794-057-21	PIN, CONNECTOR (PC BOARD) 2P			
CN254	1-766-335-21	CONNECTOR, FFC/FPC 5P			
CN255	1-779-327-11	CONNECTOR, FFC/FPC 6P			
CN256	1-779-327-11	CONNECTOR, FFC/FPC 6P			
< DIODE >					
D250	8-719-064-61	DIODE	01BZA8.2(TE85L)		
D251	8-719-064-61	DIODE	01BZA8.2(TE85L)		
D252	8-719-073-03	DIODE	MA8082-(K8).SO		
D253	8-719-064-61	DIODE	01BZA8.2(TE85L)		
D254	8-719-064-61	DIODE	01BZA8.2(TE85L)		
D255	8-719-064-61	DIODE	01BZA8.2(TE85L)		
< RESISTOR >					
R255	1-218-954-11	RES-CHIP	1.2K	5%	1/16W
R256	1-218-954-11	RES-CHIP	1.2K	5%	1/16W
R257	1-218-954-11	RES-CHIP	1.2K	5%	1/16W
R258	1-218-955-11	RES-CHIP	1.5K	5%	1/16W
R259	1-218-955-11	RES-CHIP	1.5K	5%	1/16W
R260	1-218-955-11	RES-CHIP	1.5K	5%	1/16W
R261	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R262	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R263	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R264	1-218-963-11	RES-CHIP	6.8K	5%	1/16W
R265	1-218-963-11	RES-CHIP	6.8K	5%	1/16W
R266	1-218-963-11	RES-CHIP	6.8K	5%	1/16W
R267	1-218-969-11	RES-CHIP	22K	5%	1/16W
R268	1-218-969-11	RES-CHIP	22K	5%	1/16W
R269	1-218-969-11	RES-CHIP	22K	5%	1/16W

Ref. No.	Part No.	Description
		< SWITCH >
S250	1-771-138-82	SWITCH, KEY BOARD (TITLE)
S251	1-771-138-82	SWITCH, KEY BOARD (DISPLAY)
S252	1-771-138-82	SWITCH, KEY BOARD (MEMORY INDEX)
S253	1-771-138-82	SWITCH, KEY BOARD (SELF TIMER)
S254	1-771-138-82	SWITCH, KEY BOARD (MEMORY+)
S255	1-771-138-82	SWITCH, KEY BOARD (DIGITAL EFFECT)
S256	1-771-138-82	SWITCH, KEY BOARD (RESET)
S257	1-771-138-82	SWITCH, KEY BOARD (MEMORY-)
S258	1-771-138-82	SWITCH, KEY BOARD (PICTURE EFFECT)
S259	1-771-138-82	SWITCH, KEY BOARD (MEMORY DELETE)
S260	1-771-138-82	SWITCH, KEY BOARD (MEMORY MIX)
S261	1-771-138-82	SWITCH, KEY BOARD (DATA CODE)
S262	1-771-138-82	SWITCH, KEY BOARD (MEMORY PLAY)
S263	1-762-648-21	SWITCH, SLIDE (ZEBRA/OFF/70/100)
A-7078-941-A	DD-216 BOARD, COMPLETE	*****
		< CAPACITOR >
C300	1-107-819-11	CERAMIC CHIP 0.022uF 10.00% 16V
C301	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C302	1-119-923-11	CERAMIC CHIP 0.047uF 10.00% 10V
C303	1-119-923-11	CERAMIC CHIP 0.047uF 10.00% 10V
C304	1-164-939-11	CERAMIC CHIP 0.0022uF 10.00% 50V
C305	1-164-943-11	CERAMIC CHIP 0.01uF 10.00% 16V
C307	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C308	1-119-751-11	TANTAL. CHIP 22uF 20.00% 16V
C309	1-164-874-11	CERAMIC CHIP 100PF 5.00% 50V
C310	1-119-751-11	TANTAL. CHIP 22uF 20.00% 16V
C311	1-164-935-11	CERAMIC CHIP 470PF 10.00% 50V
C312	1-119-923-11	CERAMIC CHIP 0.047uF 10.00% 10V
C313	1-104-913-11	TANTAL. CHIP 10uF 20.00% 16V
C314	1-119-751-11	TANTAL. CHIP 22uF 20.00% 16V
C315	1-164-937-11	CERAMIC CHIP 0.001uF 10.00% 50V
C316	1-119-751-11	TANTAL. CHIP 22uF 20.00% 16V
C317	1-164-939-11	CERAMIC CHIP 0.0022uF 10.00% 50V
C318	1-164-935-11	CERAMIC CHIP 470PF 10.00% 50V
C319	1-164-937-11	CERAMIC CHIP 0.001uF 10.00% 50V
C320	1-164-933-11	CERAMIC CHIP 220PF 10.00% 50V
C321	1-164-874-11	CERAMIC CHIP 100PF 5.00% 50V
C322	1-109-982-11	CERAMIC CHIP 1uF 10.00% 10V
C323	1-127-760-11	CERAMIC CHIP 4.7uF 10% 6.3V
C324	1-127-760-11	CERAMIC CHIP 4.7uF 10% 6.3V
C325	1-164-940-11	CERAMIC CHIP 0.0033uF 10.00% 16V
C326	1-109-982-11	CERAMIC CHIP 1uF 10.00% 10V
C327	1-164-939-11	CERAMIC CHIP 0.0022uF 10.00% 50V
C328	1-164-940-11	CERAMIC CHIP 0.0033uF 10.00% 16V
C329	1-164-940-11	CERAMIC CHIP 0.0033uF 10.00% 16V
C330	1-164-940-11	CERAMIC CHIP 0.0033uF 10.00% 16V
C331	1-164-940-11	CERAMIC CHIP 0.0033uF 10.00% 16V
C332	1-164-940-11	CERAMIC CHIP 0.0033uF 10.00% 16V
C333	1-115-566-11	CERAMIC CHIP 4.7uF 10.00% 10V
C334	1-115-566-11	CERAMIC CHIP 4.7uF 10.00% 10V
C335	1-115-566-11	CERAMIC CHIP 4.7uF 10.00% 10V
C336	1-115-566-11	CERAMIC CHIP 4.7uF 10.00% 10V
C337	1-115-566-11	CERAMIC CHIP 4.7uF 10.00% 10V
C338	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C339	1-104-851-11	TANTAL. CHIP 10uF 20.00% 10V
C340	1-127-760-11	CERAMIC CHIP 4.7uF 10% 6.3V

Ref. No.	Part No.	Description
C341	1-127-760-11	CERAMIC CHIP 4.7uF 10% 6.3V
C342	1-127-760-11	CERAMIC CHIP 4.7uF 10% 6.3V
C343	1-127-760-11	CERAMIC CHIP 4.7uF 10% 6.3V
C344	1-127-760-11	CERAMIC CHIP 4.7uF 10% 6.3V
C345	1-127-760-11	CERAMIC CHIP 4.7uF 10% 6.3V
C346	1-127-820-11	CERAMIC CHIP 4.7uF 10% 16V
C349	1-127-820-11	CERAMIC CHIP 4.7uF 10% 16V
C350	1-113-985-11	TANTAL. CHIP 10uF 20.00% 20V
C351	1-117-919-11	TANTAL. CHIP 10uF 20.00% 6.3V
C352	1-117-919-11	TANTAL. CHIP 10uF 20.00% 6.3V
C353	1-104-851-11	TANTAL. CHIP 10uF 20.00% 10V
C354	1-104-852-11	TANTAL. CHIP 22uF 20.00% 6.3V
C355	1-104-851-11	TANTAL. CHIP 10uF 20.00% 10V
C356	1-117-919-11	TANTAL. CHIP 10uF 20.00% 6.3V
C357	1-117-919-11	TANTAL. CHIP 10uF 20.00% 6.3V
C358	1-117-919-11	TANTAL. CHIP 10uF 20.00% 6.3V
C359	1-135-259-11	TANTAL. CHIP 10uF 20.00% 6.3V
C360	1-104-851-11	TANTAL. CHIP 10uF 20.00% 10V
C361	1-110-569-11	TANTAL. CHIP 47uF 20.00% 6.3V
C362	1-109-982-11	CERAMIC CHIP 1uF 10.00% 10V
C363	1-104-851-11	TANTAL. CHIP 10uF 20.00% 10V
C365	1-135-214-21	TANTAL. CHIP 4.7uF 20.00% 20V
C366	1-113-985-11	TANTAL. CHIP 10uF 20.00% 20V
C367	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C368	1-135-259-11	TANTAL. CHIP 10uF 20.00% 6.3V
C369	1-164-505-11	CERAMIC CHIP 2.2uF 16V
C370	1-164-505-11	CERAMIC CHIP 2.2uF 16V
C371	1-113-985-11	TANTAL. CHIP 10uF 20.00% 20V
C372	1-113-985-11	TANTAL. CHIP 10uF 20.00% 20V
C373	1-104-851-11	TANTAL. CHIP 10uF 20.00% 10V
C375	1-113-985-11	TANTAL. CHIP 10uF 20.00% 20V
C376	1-135-212-21	TANTAL. CHIP 2.2uF 20.00% 35V
C450	1-115-566-11	CERAMIC CHIP 4.7uF 10.00% 10V
		< CONNECTOR >
CN300	1-573-290-21	PIN, CONNECTOR (1.5MM) (SMD) 4P
CN301	1-691-550-11	PIN, CONNECTOR (1.5MM)(SMD) 3P
CN450	1-778-084-11	CONNECTOR, BOARD TO BOARD 60P
		< DIODE >
D300	8-719-158-49	DIODE MA8120-TX
D301	8-719-073-03	DIODE MA8082-(K8).S0
D302	8-719-073-03	DIODE MA8082-(K8).S0
D303	8-719-073-03	DIODE MA8082-(K8).S0
D304	8-719-056-48	DIODE 1SS388(TPL3)
D305	8-719-058-24	DIODE RB501V-40TE-17
D306	8-719-058-24	DIODE RB501V-40TE-17
D307	8-719-058-24	DIODE RB501V-40TE-17
D308	8-719-056-48	DIODE 1SS388(TPL3)
D311	8-719-056-48	DIODE 1SS388(TPL3)
D312	8-719-056-48	DIODE 1SS388(TPL3)
D313	8-719-056-48	DIODE 1SS388(TPL3)
D314	8-719-056-23	DIODE MA2S111-(K8).S0
D315	8-719-075-12	DIODE MA3XD21001S0
D316	8-719-056-23	DIODE MA2S111-(K8).S0

DD-216

Ref. No.	Part No.	Description	
< FUSE >			
△ F300	1-576-286-21	FUSE	1.4A/24V
△ F301	1-576-286-21	FUSE	1.4A/24V
△ F302	1-576-286-21	FUSE	1.4A/24V
△ F303	1-576-286-21	FUSE	1.4A/24V
△ F304	1-576-286-21	FUSE	1.4A/24V
△ F305	1-576-286-21	FUSE	1.4A/24V
< IC >			
IC300	8-759-491-09	IC	MB4488PFV-G-BND-ER
IC301	8-759-075-66	IC	TA75S01F
< COIL >			
L300	1-416-669-11	INDUCTOR	22uH
L301	1-416-670-11	INDUCTOR	33uH
L302	1-416-669-11	INDUCTOR	22uH
L303	1-416-669-11	INDUCTOR	22uH
L304	1-416-669-11	INDUCTOR	22uH
L305	1-416-669-11	INDUCTOR	22uH
L306	1-412-056-11	INDUCTOR	4.7uH
L307	1-414-770-91	INDUCTOR	4.7uH
L308	1-412-056-11	INDUCTOR	4.7uH
L309	1-414-400-11	INDUCTOR	22uH
L310	1-414-770-91	INDUCTOR	4.7uH
L311	1-414-770-91	INDUCTOR	4.7uH
L312	1-412-056-11	INDUCTOR	4.7uH
L313	1-414-770-91	INDUCTOR	4.7uH
L314	1-414-770-91	INDUCTOR	4.7uH
L315	1-414-394-11	INDUCTOR	2.2uH
L316	1-414-770-91	INDUCTOR	4.7uH
L317	1-469-058-11	INDUCTOR	22uH
L318	1-469-058-11	INDUCTOR	22uH
L319	1-414-770-91	INDUCTOR	4.7uH
L451	1-414-770-91	INDUCTOR	4.7uH
< TRANSISTOR >			
Q300	8-729-047-68	TRANSISTOR	SSM3K03FE(TPL3)
Q301	8-729-046-77	TRANSISTOR	SI4963DY-T1
Q302	8-729-804-41	TRANSISTOR	2SB1122-ST-TD-E
Q303	8-729-037-74	TRANSISTOR	UN9213J-(TX).SO
Q304	8-729-047-68	TRANSISTOR	SSM3K03FE(TPL3)
Q305	8-729-050-24	TRANSISTOR	MCH6202-TL-E
Q306	8-729-042-26	TRANSISTOR	2SB1462J-QR(K8).SO
Q307	8-729-037-74	TRANSISTOR	UN9213J-(TX).SO
Q308	8-729-043-60	TRANSISTOR	CPH6102-TL-E
Q309	8-729-046-98	TRANSISTOR	CPH6702-TL-E
Q310	8-729-046-98	TRANSISTOR	CPH6702-TL-E
Q311	8-729-046-98	TRANSISTOR	CPH6702-TL-E
Q312	8-729-046-98	TRANSISTOR	CPH6702-TL-E
Q313	8-729-046-98	TRANSISTOR	CPH6702-TL-E
Q314	8-729-046-98	TRANSISTOR	CPH6702-TL-E
Q315	8-729-037-52	TRANSISTOR	2SD2216J-QR(TX).SO
Q316	8-729-017-61	TRANSISTOR	2SB1581-T1
Q317	8-729-042-26	TRANSISTOR	2SB1462J-QR(K8).SO
Q318	8-729-044-58	TRANSISTOR	SI2304DS-T1
Q319	8-729-044-58	TRANSISTOR	SI2304DS-T1

Ref. No.	Part No.	Description			
Q320	8-729-044-58	TRANSISTOR	SI2304DS-T1		
Q321	8-729-044-58	TRANSISTOR	SI2304DS-T1		
Q322	8-729-044-58	TRANSISTOR	SI2304DS-T1		
Q323	8-729-044-58	TRANSISTOR	SI2304DS-T1		
Q324	8-729-037-52	TRANSISTOR	2SD2216J-QR(TX).SO		
Q325	8-729-037-74	TRANSISTOR	UN9213J-(TX).SO		
Q327	8-729-037-52	TRANSISTOR	2SD2216J-QR(TX).SO		
Q329	8-729-037-74	TRANSISTOR	UN9213J-(TX).SO		
Q331	8-729-042-26	TRANSISTOR	2SB1462J-QR(K8).SO		
Q332	8-729-042-26	TRANSISTOR	2SB1462J-QR(K8).SO		
Q333	8-729-042-26	TRANSISTOR	2SB1462J-QR(K8).SO		
Q334	8-729-049-25	TRANSISTOR	2SC5376F-B(TPL3)		
Q335	8-729-037-52	TRANSISTOR	2SD2216J-QR(TX).SO		
Q337	8-729-037-52	TRANSISTOR	2SD2216J-QR(TX).SO		
Q338	8-729-042-26	TRANSISTOR	2SB1462J-QR(K8).SO		
Q339	6-550-037-01	TRANSISTOR	NTGS3455T1		
Q340	8-729-037-52	TRANSISTOR	2SD2216J-QR(TX).SO		
Q341	8-729-049-91	TRANSISTOR	2SA2018H-T2L		
Q344	8-729-037-52	TRANSISTOR	2SD2216J-QR(TX).SO		
Q345	8-729-034-59	TRANSISTOR	2SA1745-6.7-TL		
Q348	8-729-037-52	TRANSISTOR	2SD2216J-QR(TX).SO		
Q349	8-729-042-26	TRANSISTOR	2SB1462J-QR(K8).SO		
Q351	8-729-037-52	TRANSISTOR	2SD2216J-QR(TX).SO		
< RESISTOR >					
R300	1-218-953-11	RES-CHIP	1K	5%	1/16W
R301	1-216-296-11	SHORT CHIP	0		
R302	1-216-296-11	SHORT CHIP	0		
R303	1-218-985-11	RES-CHIP	470K	5%	1/16W
R304	1-218-989-11	RES-CHIP	1M	5%	1/16W
R305	1-218-969-11	RES-CHIP	22K	5%	1/16W
R306	1-216-150-91	RES-CHIP	10	5%	1/8W
R307	1-218-969-11	RES-CHIP	22K	5%	1/16W
R308	1-218-969-11	RES-CHIP	22K	5%	1/16W
R309	1-218-969-11	RES-CHIP	22K	5%	1/16W
R310	1-218-953-11	RES-CHIP	1K	5%	1/16W
R311	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R312	1-218-969-11	RES-CHIP	22K	5%	1/16W
R313	1-218-973-11	RES-CHIP	47K	5%	1/16W
R314	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R315	1-218-953-11	RES-CHIP	1K	5%	1/16W
R316	1-218-969-11	RES-CHIP	22K	5%	1/16W
R317	1-208-715-11	METAL CHIP	22K	0.5%	1/16W
R318	1-208-927-11	METAL CHIP	47K	0.5%	1/16W
R319	1-218-969-11	RES-CHIP	22K	5%	1/16W
R320	1-218-965-11	RES-CHIP	10K	5%	1/16W
R321	1-208-719-11	METAL CHIP	33K	0.5%	1/16W
R322	1-218-971-11	RES-CHIP	33K	5%	1/16W
R323	1-218-973-11	RES-CHIP	47K	5%	1/16W
R324	1-218-965-11	RES-CHIP	10K	5%	1/16W
R325	1-208-927-11	METAL CHIP	47K	0.5%	1/16W
R326	1-218-969-11	RES-CHIP	22K	5%	1/16W
R327	1-208-927-11	METAL CHIP	47K	0.5%	1/16W
R328	1-208-931-11	METAL CHIP	68K	0.5%	1/16W
R329	1-218-965-11	RES-CHIP	10K	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.
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Ref. No.	Part No.	Description			
R400	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R401	1-218-953-11	RES-CHIP	1K	5%	1/16W
R456	1-218-990-11	SHORT CHIP	0		
< TRANSFORMER >					
T300	1-435-456-21	TRANSFORMER, DC-DC CONVERTER			
T301	1-435-518-21	TRANSFORMER, DC-DC CONVERTER			
A-7078-942-A		FK-088 BOARD, COMPLETE			

< CONNECTOR >					
CN500	1-785-902-21	CONNECTOR, FFC/FPC (ZIF) 23P			
CN501	1-815-438-11	CONNECTOR, BOARD TO BOARD 40P			
CN502	1-784-420-11	CONNECTOR, FFC/FPC (ZIF) 21P			
< DIODE >					
D500	8-719-061-81	DIODE	TLYU1002(TPX1,SONY)		
D501	8-719-061-81	DIODE	TLYU1002(TPX1,SONY)		
D502	8-719-061-81	DIODE	TLYU1002(TPX1,SONY)		
D503	8-719-061-81	DIODE	TLYU1002(TPX1,SONY)		
D504	8-719-061-81	DIODE	TLYU1002(TPX1,SONY)		
D505	8-719-061-81	DIODE	TLYU1002(TPX1,SONY)		
D506	8-719-061-81	DIODE	TLYU1002(TPX1,SONY)		
D507	8-719-061-81	DIODE	TLYU1002(TPX1,SONY)		
D508	8-719-061-81	DIODE	TLYU1002(TPX1,SONY)		
D509	8-719-061-81	DIODE	TLYU1002(TPX1,SONY)		
D510	8-719-061-81	DIODE	TLYU1002(TPX1,SONY)		
D511	8-719-061-81	DIODE	TLYU1002(TPX1,SONY)		
D512	8-719-062-16	DIODE	01ZA8.2(TPL3)		
< RESISTOR >					
R502	1-218-950-11	RES-CHIP	560	5%	1/16W
R503	1-218-954-11	RES-CHIP	1.2K	5%	1/16W
R504	1-218-954-11	RES-CHIP	1.2K	5%	1/16W
R505	1-218-950-11	RES-CHIP	560	5%	1/16W
R506	1-218-955-11	RES-CHIP	1.5K	5%	1/16W
R507	1-218-955-11	RES-CHIP	1.5K	5%	1/16W
R508	1-218-950-11	RES-CHIP	560	5%	1/16W
R509	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R510	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R511	1-218-950-11	RES-CHIP	560	5%	1/16W
R512	1-218-963-11	RES-CHIP	6.8K	5%	1/16W
R513	1-218-963-11	RES-CHIP	6.8K	5%	1/16W
R514	1-218-950-11	RES-CHIP	560	5%	1/16W
R515	1-218-969-11	RES-CHIP	22K	5%	1/16W
R516	1-218-950-11	RES-CHIP	560	5%	1/16W
R518	1-218-990-11	SHORT CHIP	0		
< SWITCH >					
S500	1-771-138-82	SWITCH, KEY BOARD (STOP)			
S501	1-771-138-82	SWITCH, KEY BOARD (PAUSE)			
S502	1-771-138-82	SWITCH, KEY BOARD (REW)			
S503	1-771-138-82	SWITCH, KEY BOARD (FF)			
S504	1-771-138-82	SWITCH, KEY BOARD (PLAY)			

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FK-088	FP-594	FT-092	HL-013	JK-267
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Ref. No.	Part No.	Description
S505	1-771-138-82	SWITCH, KEY BOARD (SLOW)
S506	1-771-138-82	SWITCH, KEY BOARD (REC)
S507	1-771-138-82	SWITCH, KEY BOARD (REC)
S508	1-771-138-82	SWITCH, KEY BOARD (AUDIO DUB)
S509	1-771-138-82	SWITCH, KEY BOARD (EDIT SEARCH+)
S510	1-771-138-82	SWITCH, KEY BOARD (END SEARCH)
S511	1-771-138-82	SWITCH, KEY BOARD (EDIT SEARCH-)
	A-7073-418-A	FP-594 FLEXIBLE BOARD *****
< CONNECTOR >		
CN901	1-784-723-11	PIN, CONNECTOR 4P
< DIODE >		
D901	8-719-067-13	DIODE GL453K
< HOLE ELEMENT >		
H901	8-719-061-28	DIODE HW-105C-FT-V (S REEL)
H901	8-719-061-28	DIODE HW-105C-FT-V (T REEL)
< TRANSISTOR >		
Q901	6-600-109-01	PHOTO TRAN ISTAR PT4800FB (TAPE END)
Q902	6-600-109-01	PHOTO TRAN ISTAR PT4800FB (TAPE TOP)
< SWITCH >		
S901	1-771-039-51	SWITCH, PUSH (C IN SW)
S902	1-572-719-32	SWITCH, PUSH (1 KEY) (REC PROOF)
S903	1-771-325-11	ENCODER, ROTARY (SWITCH)(MODE)
	A-7078-943-A	FT-092 BOARD, COMPLETE *****
< CAPACITOR >		
C750	1-117-919-11	TANTAL. CHIP 10uF 20.00% 6.3V
< CONNECTOR >		
* CN750	1-573-984-11	CONNECTOR, BOARD TO BOARD 10P
< DIODE >		
D750	8-719-951-20	DIODE BR1102W-TR
D751	8-719-052-25	DIODE CL-200IR-X-TU-BC
< FUSE >		
△ F750	1-533-874-11	FUSE 0.2A/24V
< IC >		
IC750	8-749-013-13	IC RS-70-TU
< TRANSISTOR >		
Q750	8-729-037-71	TRANSISTOR UN9210J-(TX).SO
< RESISTOR >		
R750	1-218-951-11	RES-CHIP 680 5% 1/16W
R751	1-218-937-11	RES-CHIP 47 5% 1/16W

Ref. No.	Part No.	Description
	A-7078-944-A	HL-013 BOARD, COMPLETE *****
< CAPACITOR >		
C1701	1-107-726-91	CERAMIC CHIP 0.01uF 10% 16V
< CONNECTOR >		
CN1701	1-766-337-21	CONNECTOR, FFC/FPC 7P
CN1702	1-778-711-11	CONNECTOR, FFC/FPC (ZIF) 5P
CN1703	1-573-930-11	CONNECTOR, FFC/FPC (ZIF) 21P
< DIODE >		
D1701	8-719-073-03	DIODE MA8082-(K8).SO
< IC >		
IC1701	8-759-573-02	IC BU9735K-E2
< RESISTOR >		
R1701	1-218-954-11	RES-CHIP 1.2K 5% 1/16W
R1702	1-218-955-11	RES-CHIP 1.5K 5% 1/16W
R1703	1-218-959-11	RES-CHIP 3.3K 5% 1/16W
R1704	1-216-855-11	METAL CHIP 680K 5% 1/16W
	A-7078-952-A	JK-267 BOARD, COMPLETE *****
< CAPACITOR >		
C301	1-164-937-11	CERAMIC CHIP 0.001uF 10.00% 50V
C302	1-164-937-11	CERAMIC CHIP 0.001uF 10.00% 50V
C303	1-164-937-11	CERAMIC CHIP 0.001uF 10.00% 50V
C304	1-164-937-11	CERAMIC CHIP 0.001uF 10.00% 50V
< CONNECTOR >		
CN300	1-785-828-11	CONNECTOR, SQUARE TYPE 4P (DV Interface)
CN301	1-785-433-21	CONNECTOR, BOARD TO BOARD 40P
< DIODE >		
D300	8-719-062-16	DIODE 01ZA8.2(TPL3)
D301	8-719-073-03	DIODE MA8082-(K8).SO
D302	8-719-062-16	DIODE 01ZA8.2(TPL3)
D303	8-719-062-16	DIODE 01ZA8.2(TPL3)
D304	8-719-062-16	DIODE 01ZA8.2(TPL3)
D305	8-719-073-03	DIODE MA8082-(K8).SO
D306	8-719-062-16	DIODE 01ZA8.2(TPL3)
D307	8-719-073-03	DIODE MA8082-(K8).SO
D308	8-719-073-03	DIODE MA8082-(K8).SO
D309	8-719-072-91	DIODE MAZJ200D0LS0
D310	8-719-062-16	DIODE 01ZA8.2(TPL3)
D311	8-719-422-70	DIODE MA8075-TX
D312	8-719-062-16	DIODE 01ZA8.2(TPL3)
D313	8-719-062-16	DIODE 01ZA8.2(TPL3)
D314	8-719-073-03	DIODE MA8082-(K8).SO
D315	6-500-750-01	DIODE NSAD500H-T1-A

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.
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KP-013

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Ref. No.	Part No.	Description
< FERRITE BEAD >		
FB300	1-500-444-11	FERRITE 0uH
FB301	1-500-444-11	FERRITE 0uH
< JACK >		
J300	1-694-713-11	TERMINAL BOARD (VIDEO/AUDIO L/R)
J301	1-566-850-31	CONNECTOR, (S) TERMINAL 4P (S-VIDEO)
J302	1-563-282-21	JACK, SMALL TYPE (HEADPHONE)
J303	1-793-995-11	JACK, SUPER SMALL TYPE (LANC)
< COIL >		
L301	1-412-963-11	INDUCTOR 100uH
L302	1-412-963-11	INDUCTOR 100uH
< RESISTOR >		
R300	1-216-864-11	METAL CHIP 0 5% 1/16W
R301	1-216-864-11	METAL CHIP 0 5% 1/16W
R302	1-216-864-11	METAL CHIP 0 5% 1/16W
R303	1-216-864-11	METAL CHIP 0 5% 1/16W
R304	1-216-864-11	METAL CHIP 0 5% 1/16W
R305	1-216-864-11	METAL CHIP 0 5% 1/16W
R306	1-216-864-11	METAL CHIP 0 5% 1/16W
R307	1-216-864-11	METAL CHIP 0 5% 1/16W
R308	1-216-864-11	METAL CHIP 0 5% 1/16W
R309	1-216-864-11	METAL CHIP 0 5% 1/16W
R311	1-216-864-11	METAL CHIP 0 5% 1/16W
R312	1-216-864-11	METAL CHIP 0 5% 1/16W
R313	1-216-864-11	METAL CHIP 0 5% 1/16W
R314	1-216-864-11	METAL CHIP 0 5% 1/16W
R315	1-216-864-11	METAL CHIP 0 5% 1/16W
R316	1-216-864-11	METAL CHIP 0 5% 1/16W
R317	1-218-990-11	SHORT CHIP 0
R318	1-216-864-11	METAL CHIP 0 5% 1/16W
R319	1-218-990-11	SHORT CHIP 0
R320	1-216-864-11	METAL CHIP 0 5% 1/16W
R321	1-216-864-11	METAL CHIP 0 5% 1/16W
A-7078-945-A KP-013 BOARD, COMPLETE		

< CONNECTOR >		
CN550	1-766-336-21	CONNECTOR, FFC/FPC 6P
< DIODE >		
D550	8-719-064-61	DIODE 01BZA8.2(TE85L)
< SWITCH >		
S550	1-771-025-41	SWITCH, ROTARY (ENCODER) (SEL/PUSH EXEC)
A-7078-946-A LA-028 BOARD, COMPLETE		

< CAPACITOR >		
C070	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C071	1-107-826-11	CERAMIC CHIP 0.1uF 10.00% 16V
C072	1-107-826-11	CERAMIC CHIP 0.1uF 10.00% 16V
C073	1-164-942-11	CERAMIC CHIP 0.0068uF 10.00% 16V
C074	1-164-942-11	CERAMIC CHIP 0.0068uF 10.00% 16V

Ref. No.	Part No.	Description
C075	1-107-823-11	CERAMIC CHIP 0.47uF 10.00% 16V
C076	1-125-837-91	CERAMIC CHIP 1uF 10% 6.3V
C077	1-107-823-11	CERAMIC CHIP 0.47uF 10.00% 16V
C078	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C079	1-125-926-91	TANTAL. CHIP 4.7uF 20% 6.3V
C080	1-117-919-11	TANTAL. CHIP 10uF 20.00% 6.3V
C085	1-115-467-11	CERAMIC CHIP 0.22uF 10.00% 10V
C086	1-115-467-11	CERAMIC CHIP 0.22uF 10.00% 10V
C087	1-119-923-11	CERAMIC CHIP 0.047uF 10.00% 10V
C088	1-119-923-11	CERAMIC CHIP 0.047uF 10.00% 10V
C089	1-164-940-11	CERAMIC CHIP 0.0033uF 10.00% 16V
C090	1-107-819-11	CERAMIC CHIP 0.022uF 10.00% 16V
C091	1-107-819-11	CERAMIC CHIP 0.022uF 10.00% 16V
C092	1-164-940-11	CERAMIC CHIP 0.0033uF 10.00% 16V
C093	1-117-919-11	TANTAL. CHIP 10uF 20.00% 6.3V
C094	1-117-919-11	TANTAL. CHIP 10uF 20.00% 6.3V
C095	1-127-895-91	TANTAL. CHIP 22uF 20% 4V
C096	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C097	1-125-926-91	TANTAL. CHIP 4.7uF 20% 6.3V
C098	1-125-838-11	CERAMIC CHIP 2.2uF 10% 6.3V
C099	1-125-838-11	CERAMIC CHIP 2.2uF 10% 6.3V
C100	1-127-760-11	CERAMIC CHIP 4.7uF 10% 6.3V
C140	1-164-943-11	CERAMIC CHIP 0.01uF 10.00% 16V
C141	1-164-943-11	CERAMIC CHIP 0.01uF 10.00% 16V
C142	1-164-941-11	CERAMIC CHIP 0.0047uF 10.00% 16V
C143	1-115-156-11	CERAMIC CHIP 1uF 10V
C145	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C146	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C147	1-164-935-11	CERAMIC CHIP 470PF 10.00% 50V
C148	1-164-489-11	CERAMIC CHIP 0.22uF 10.00% 16V
C149	1-164-937-11	CERAMIC CHIP 0.001uF 10.00% 50V
C150	1-107-823-11	CERAMIC CHIP 0.47uF 10.00% 16V
C151	1-164-943-11	CERAMIC CHIP 0.01uF 10.00% 16V
C152	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C153	1-164-939-11	CERAMIC CHIP 0.0022uF 10.00% 50V
C154	1-104-851-11	TANTAL. CHIP 10uF 20.00% 10V
C155	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C156	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C157	1-127-895-91	TANTAL. CHIP 22uF 20% 4V
C158	1-127-895-91	TANTAL. CHIP 22uF 20% 4V
C159	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C160	1-164-866-11	CERAMIC CHIP 47PF 5.00% 50V
C161	1-164-866-11	CERAMIC CHIP 47PF 5.00% 50V
C162	1-115-467-11	CERAMIC CHIP 0.22uF 10.00% 10V
C163	1-115-467-11	CERAMIC CHIP 0.22uF 10.00% 10V
C164	1-164-935-11	CERAMIC CHIP 470PF 10.00% 50V
C165	1-164-935-11	CERAMIC CHIP 470PF 10.00% 50V
C166	1-127-895-91	TANTAL. CHIP 22uF 20% 4V
C167	1-164-935-11	CERAMIC CHIP 470PF 10.00% 50V
C168	1-164-935-11	CERAMIC CHIP 470PF 10.00% 50V
C170	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C200	1-127-895-91	TANTAL. CHIP 22uF 20% 4V
C201	1-127-895-91	TANTAL. CHIP 22uF 20% 4V
C202	1-164-677-11	CERAMIC CHIP 0.033uF 10.00% 16V
C203	1-164-677-11	CERAMIC CHIP 0.033uF 10.00% 16V
C204	1-107-819-11	CERAMIC CHIP 0.022uF 10.00% 16V
C205	1-107-819-11	CERAMIC CHIP 0.022uF 10.00% 16V
C206	1-107-819-11	CERAMIC CHIP 0.022uF 10.00% 16V
C207	1-107-819-11	CERAMIC CHIP 0.022uF 10.00% 16V
C208	1-110-569-21	TANTAL. CHIP 47uF 20.00% 4V

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Ref. No.	Part No.	Description
C209	1-110-569-21	TANTAL. CHIP 47uF 20.00% 4V
C210	1-110-569-21	TANTAL. CHIP 47uF 20.00% 4V
C211	1-110-569-21	TANTAL. CHIP 47uF 20.00% 4V
C214	1-127-895-91	TANTAL. CHIP 22uF 20% 4V
C215	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
< CONNECTOR >		
CN050	1-784-423-21	CONNECTOR, FFC/FPC (ZIF) 39P
CN051	1-778-086-21	CONNECTOR, BOARD TO BOARD 80P
CN052	1-784-421-11	CONNECTOR, FFC/FPC (ZIF) 27P
CN053	1-766-843-21	CONNECTOR, FFC/FPC 27P
CN054	1-766-336-21	CONNECTOR, FFC/FPC 6P
CN055	1-766-336-21	CONNECTOR, FFC/FPC 6P
CN056	1-766-350-21	CONNECTOR, FFC/FPC 20P
< DIODE >		
D070	8-719-064-61	DIODE 01BZA8.2(Te85L)
D140	8-719-056-23	DIODE MA2S111-(K8).SO
< FERRITE BEAD >		
FB140	1-414-445-11	FERRITE 0uH
< IC >		
IC070	8-759-359-49	IC NJM3414AV(Te2)
IC071	8-759-359-49	IC NJM3414AV(Te2)
IC072	8-759-823-51	IC LB1830M-E
IC073	8-759-444-87	IC NJM324V(Te2)
IC074	8-759-058-45	IC NJM3403AV
IC075	8-759-478-92	IC TC7SET04FU(Te85R)
IC076	8-759-478-92	IC TC7SET04FU(Te85R)
IC140	8-759-637-96	IC uPD16877MA-6A5-E2
IC141	8-759-444-87	IC NJM324V(Te2)
IC142	8-759-075-66	IC TA75S01F
IC143	8-759-327-33	IC BU9241FS-E2
IC144	8-759-327-33	IC BU9241FS-E2
IC200	8-759-489-19	IC uPC6756GR-8JG-E2
< COIL >		
L070	1-412-951-11	INDUCTOR 10uH
L071	1-412-963-11	INDUCTOR 100uH
L072	1-414-754-11	INDUCTOR 10uH
L073	1-414-771-91	INDUCTOR 10uH
L140	1-414-754-11	INDUCTOR 10uH
L141	1-414-754-11	INDUCTOR 10uH
L142	1-414-754-11	INDUCTOR 10uH
L143	1-414-754-11	INDUCTOR 10uH
L200	1-414-754-11	INDUCTOR 10uH
< TRANSISTOR >		
Q050	8-729-037-72	TRANSISTOR UN9211J-(K8).SO
Q070	8-729-042-26	TRANSISTOR 2SB1462J-QR(K8).SO
Q071	8-729-042-26	TRANSISTOR 2SB1462J-QR(K8).SO
Q072	8-729-037-74	TRANSISTOR UN9213J-(K8).SO
Q073	8-729-042-26	TRANSISTOR 2SB1462J-QR(K8).SO
Q074	8-729-037-74	TRANSISTOR UN9213J-(K8).SO
Q075	8-729-042-26	TRANSISTOR 2SB1462J-QR(K8).SO
Q076	8-729-013-31	TRANSISTOR 2SA1588-OY-TE85L
Q077	8-729-042-26	TRANSISTOR 2SB1462J-QR(K8).SO
Q078	8-729-037-74	TRANSISTOR UN9213J-(K8).SO

Ref. No.	Part No.	Description
Q140	8-729-042-26	TRANSISTOR 2SB1462J-QR(K8).SO
Q141	8-729-037-74	TRANSISTOR UN9213J-(K8).SO
Q142	8-729-037-52	TRANSISTOR 2SD2216J-QR(K8).SO
Q143	8-729-037-52	TRANSISTOR 2SD2216J-QR(K8).SO
Q200	8-729-013-31	TRANSISTOR 2SA1588-OY-TE85L
Q201	8-729-037-74	TRANSISTOR UN9213J-(K8).SO
< RESISTOR >		
R051	1-218-954-11	RES-CHIP 1.2K 5% 1/16W
R052	1-218-955-11	RES-CHIP 1.5K 5% 1/16W
R053	1-218-959-11	RES-CHIP 3.3K 5% 1/16W
R054	1-218-963-11	RES-CHIP 6.8K 5% 1/16W
R055	1-218-969-11	RES-CHIP 22K 5% 1/16W
R063	1-216-295-91	SHORT CHIP 0
R065	1-216-864-11	METAL CHIP 0 5% 1/16W
R066	1-218-990-11	SHORT CHIP 0
R067	1-216-864-11	METAL CHIP 0 5% 1/16W
R070	1-208-885-11	METAL CHIP 820 0.5% 1/16W
R071	1-208-703-11	METAL CHIP 6.8K 0.5% 1/16W
R072	1-208-885-11	METAL CHIP 820 0.5% 1/16W
R073	1-208-703-11	METAL CHIP 6.8K 0.5% 1/16W
R074	1-208-707-11	METAL CHIP 10K 0.5% 1/16W
R075	1-208-707-11	METAL CHIP 10K 0.5% 1/16W
R076	1-208-707-11	METAL CHIP 10K 0.5% 1/16W
R077	1-208-935-11	METAL CHIP 100K 0.5% 1/16W
R078	1-208-707-11	METAL CHIP 10K 0.5% 1/16W
R079	1-208-707-11	METAL CHIP 10K 0.5% 1/16W
R080	1-208-935-11	METAL CHIP 100K 0.5% 1/16W
R081	1-208-711-11	METAL CHIP 15K 0.5% 1/16W
R082	1-208-707-11	METAL CHIP 10K 0.5% 1/16W
R083	1-208-711-11	METAL CHIP 15K 0.5% 1/16W
R084	1-218-961-11	RES-CHIP 4.7K 5% 1/16W
R085	1-216-134-00	METAL CHIP 2.2 5% 1/8W
R086	1-218-973-11	RES-CHIP 47K 5% 1/16W
R087	1-218-973-11	RES-CHIP 47K 5% 1/16W
R088	1-208-927-11	METAL CHIP 47K 0.5% 1/16W
R089	1-208-927-11	METAL CHIP 47K 0.5% 1/16W
R091	1-208-935-11	METAL CHIP 100K 0.5% 1/16W
R092	1-208-935-11	METAL CHIP 100K 0.5% 1/16W
R093	1-208-943-11	METAL CHIP 220K 0.5% 1/16W
R095	1-208-943-11	METAL CHIP 220K 0.5% 1/16W
R096	1-208-707-11	METAL CHIP 10K 0.5% 1/16W
R097	1-208-707-11	METAL CHIP 10K 0.5% 1/16W
R098	1-208-935-11	METAL CHIP 100K 0.5% 1/16W
R099	1-208-935-11	METAL CHIP 100K 0.5% 1/16W
R100	1-218-969-11	RES-CHIP 22K 5% 1/16W
R101	1-218-969-11	RES-CHIP 22K 5% 1/16W
R102	1-218-969-11	RES-CHIP 22K 5% 1/16W
R103	1-218-969-11	RES-CHIP 22K 5% 1/16W
R104	1-218-969-11	RES-CHIP 22K 5% 1/16W
R105	1-218-969-11	RES-CHIP 22K 5% 1/16W
R106	1-218-975-11	RES-CHIP 68K 5% 1/16W
R107	1-218-977-11	RES-CHIP 100K 5% 1/16W
R108	1-218-975-11	RES-CHIP 68K 5% 1/16W
R109	1-218-977-11	RES-CHIP 100K 5% 1/16W
R110	1-218-953-11	RES-CHIP 1K 5% 1/16W
R111	1-218-973-11	RES-CHIP 47K 5% 1/16W
R112	1-218-953-11	RES-CHIP 1K 5% 1/16W

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LB-100

MA-430

Ref. No.	Part No.	Description			
R113	1-218-977-11	RES-CHIP	100K	5%	1/16W
R114	1-218-965-11	RES-CHIP	10K	5%	1/16W
R115	1-218-965-11	RES-CHIP	10K	5%	1/16W
R116	1-218-953-11	RES-CHIP	1K	5%	1/16W
R117	1-218-953-11	RES-CHIP	1K	5%	1/16W
R118	1-218-953-11	RES-CHIP	1K	5%	1/16W
R119	1-218-973-11	RES-CHIP	47K	5%	1/16W
R120	1-218-965-11	RES-CHIP	10K	5%	1/16W
R140	1-218-953-11	RES-CHIP	1K	5%	1/16W
R141	1-218-965-11	RES-CHIP	10K	5%	1/16W
R142	1-218-975-11	RES-CHIP	68K	5%	1/16W
R143	1-218-975-11	RES-CHIP	68K	5%	1/16W
R144	1-218-975-11	RES-CHIP	68K	5%	1/16W
R145	1-218-975-11	RES-CHIP	68K	5%	1/16W
R146	1-218-975-11	RES-CHIP	68K	5%	1/16W
R147	1-216-295-91	SHORT CHIP	0		
R148	1-218-973-11	RES-CHIP	47K	5%	1/16W
R150	1-218-953-11	RES-CHIP	1K	5%	1/16W
R151	1-218-989-11	RES-CHIP	1M	5%	1/16W
R152	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R153	1-218-965-11	RES-CHIP	10K	5%	1/16W
R154	1-218-981-11	RES-CHIP	220K	5%	1/16W
R155	1-218-985-11	RES-CHIP	470K	5%	1/16W
R156	1-218-985-11	RES-CHIP	470K	5%	1/16W
R157	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R158	1-218-967-11	RES-CHIP	15K	5%	1/16W
R159	1-218-969-11	RES-CHIP	22K	5%	1/16W
R160	1-218-985-11	RES-CHIP	470K	5%	1/16W
R161	1-218-953-11	RES-CHIP	1K	5%	1/16W
R162	1-218-953-11	RES-CHIP	1K	5%	1/16W
R163	1-218-947-11	RES-CHIP	330	5%	1/16W
R164	1-218-969-11	RES-CHIP	22K	5%	1/16W
R165	1-218-953-11	RES-CHIP	1K	5%	1/16W
R166	1-218-965-11	RES-CHIP	10K	5%	1/16W
R167	1-218-973-11	RES-CHIP	47K	5%	1/16W
R168	1-208-927-11	METAL CHIP	47K	0.5%	1/16W
R169	1-208-713-11	METAL CHIP	18K	0.5%	1/16W
R170	1-208-675-11	METAL CHIP	470	0.5%	1/16W
R171	1-218-965-11	RES-CHIP	10K	5%	1/16W
R172	1-218-965-11	RES-CHIP	10K	5%	1/16W
R173	1-218-953-11	RES-CHIP	1K	5%	1/16W
R174	1-218-953-11	RES-CHIP	1K	5%	1/16W
R177	1-218-974-11	RES-CHIP	56K	5%	1/16W
R178	1-218-950-11	RES-CHIP	560	5%	1/16W
R179	1-218-965-11	RES-CHIP	10K	5%	1/16W
R180	1-218-965-11	RES-CHIP	10K	5%	1/16W
R181	1-218-953-11	RES-CHIP	1K	5%	1/16W
R182	1-218-953-11	RES-CHIP	1K	5%	1/16W
R185	1-218-974-11	RES-CHIP	56K	5%	1/16W
R186	1-218-950-11	RES-CHIP	560	5%	1/16W
R187	1-216-295-91	SHORT CHIP	0		
R200	1-218-969-11	RES-CHIP	22K	5%	1/16W
R201	1-218-969-11	RES-CHIP	22K	5%	1/16W
R202	1-218-969-11	RES-CHIP	22K	5%	1/16W
R203	1-218-969-11	RES-CHIP	22K	5%	1/16W
R204	1-218-965-11	RES-CHIP	10K	5%	1/16W
R205	1-218-965-11	RES-CHIP	10K	5%	1/16W
R206	1-218-989-11	RES-CHIP	1M	5%	1/16W
R209	1-218-989-11	RES-CHIP	1M	5%	1/16W
R210	1-218-953-11	RES-CHIP	1K	5%	1/16W

Ref. No.	Part No.	Description			
R211	1-218-965-11	RES-CHIP	10K	5%	1/16W
A-7078-953-A		LB-100 BOARD, COMPLETE			

< CAPACITOR >					
C221	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C222	1-164-505-11	CERAMIC CHIP	2.2uF		16V
< CONNECTOR >					
CN200	1-784-421-11	CONNECTOR, FFC/FPC (ZIF) 27P			
CN201	1-691-354-21	CONNECTOR, FFC/FPC (ZIF) 16P			
< DIODE >					
D200	8-719-018-51	DIODE CL-170R-CD-T			
D201	8-719-082-33	DIODE NSCW100-T38			
< IC >					
IC221	8-759-581-11	IC NJM2125F(TE2)			
< TRANSISTOR >					
Q221	6-550-119-01	TRANSISTOR	DTC144EMT2L		
Q222	8-729-054-48	TRANSISTOR	UP04601008SO		
< RESISTOR >					
R200	1-218-946-11	METAL CHIP	270	5%	1/16W
R205	1-218-977-11	RES-CHIP	100K	5%	1/16W
R206	1-218-977-11	RES-CHIP	100K	5%	1/16W
R207	1-218-977-11	RES-CHIP	100K	5%	1/16W
R208	1-218-977-11	RES-CHIP	100K	5%	1/16W
R224	1-218-948-11	METAL CHIP	390	0.5%	1/16W
R225	1-218-956-11	RES-CHIP	1.8K	5%	1/16W
R227	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R230	1-218-892-11	METAL CHIP	75K	0.5%	1/16W
R231	1-208-701-11	METAL CHIP	5.6K	0.5%	1/16W
R232	1-208-703-11	METAL CHIP	6.8K	0.5%	1/16W
A-7078-954-A		MA-430 BOARD, COMPLETE			

< CAPACITOR >					
C1106	1-117-919-11	TANTAL. CHIP	10uF	20.00%	6.3V
C1107	1-117-919-11	TANTAL. CHIP	10uF	20.00%	6.3V
C1150	1-107-819-11	CERAMIC CHIP	0.022uF	10.00%	16V
C1151	1-119-923-11	CERAMIC CHIP	0.047uF	10.00%	10V
C1152	1-107-819-11	CERAMIC CHIP	0.022uF	10.00%	16V
C1153	1-164-943-11	CERAMIC CHIP	0.01uF	10.00%	16V
C1154	1-119-923-11	CERAMIC CHIP	0.047uF	10.00%	10V
C1155	1-117-919-11	TANTAL. CHIP	10uF	20.00%	6.3V
C1156	1-164-937-11	CERAMIC CHIP	0.001uF	10.00%	50V
C1157	1-117-919-11	TANTAL. CHIP	10uF	20.00%	6.3V
C1158	1-164-935-11	CERAMIC CHIP	470PF	10.00%	50V
C1159	1-164-935-11	CERAMIC CHIP	470PF	10.00%	50V
C1160	1-164-937-11	CERAMIC CHIP	0.001uF	10.00%	50V
C1162	1-164-937-11	CERAMIC CHIP	0.001uF	10.00%	50V
C1163	1-164-937-11	CERAMIC CHIP	0.001uF	10.00%	50V

DCR-VX2100/VX2100E

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Ref. No.	Part No.	Description			
C1165	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C1166	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C1167	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C1168	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C1169	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C1170	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C1171	1-110-563-11	CERAMIC CHIP	0.068uF	10.00%	16V
C1172	1-110-563-11	CERAMIC CHIP	0.068uF	10.00%	16V
C1173	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1175	1-107-819-11	CERAMIC CHIP	0.022uF	10.00%	16V
C1177	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1178	1-107-819-11	CERAMIC CHIP	0.022uF	10.00%	16V
C1179	1-107-819-11	CERAMIC CHIP	0.022uF	10.00%	16V
C1180	1-107-819-11	CERAMIC CHIP	0.022uF	10.00%	16V
C1181	1-109-982-11	CERAMIC CHIP	1uF	10.00%	10V
C1182	1-117-919-11	TANTAL. CHIP	10uF	20.00%	6.3V
C1183	1-165-128-11	CERAMIC CHIP	0.22uF		16V
C1184	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C1185	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C1186	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C1187	1-110-563-11	CERAMIC CHIP	0.068uF	10.00%	16V
C1188	1-110-563-11	CERAMIC CHIP	0.068uF	10.00%	16V
< CONNECTOR >					
CN1100	1-784-419-11	CONNECTOR, FFC/FPC (ZIF) 15P			
CN1101	1-766-350-21	CONNECTOR, FFC/FPC 20P			
CN1102	1-784-419-11	CONNECTOR, FFC/FPC (ZIF) 15P			
< DIODE >					
D1104	8-719-064-61	DIODE 01BZA8.2(TE85L)			
D1111	8-719-064-61	DIODE 01BZA8.2(TE85L)			
D1112	8-719-064-61	DIODE 01BZA8.2(TE85L)			
D1116	8-719-064-61	DIODE 01BZA8.2(TE85L)			
< IC >					
IC1150	8-759-638-50	IC AN2901FHQEBV			
< COIL >					
L1150	1-414-754-11	INDUCTOR	10uH		
< RESISTOR >					
R1101	1-218-973-11	RES-CHIP	47K	5%	1/16W
R1102	1-218-977-11	RES-CHIP	100K	5%	1/16W
R1103	1-218-973-11	RES-CHIP	47K	5%	1/16W
R1104	1-218-939-11	RES-CHIP	68	5%	1/16W
R1105	1-218-977-11	RES-CHIP	100K	5%	1/16W
R1131	1-218-939-11	RES-CHIP	68	5%	1/16W
R1152	1-218-968-11	RES-CHIP	18K	5%	1/16W
R1153	1-218-971-11	RES-CHIP	33K	5%	1/16W
R1154	1-218-965-11	RES-CHIP	10K	5%	1/16W
R1155	1-218-965-11	RES-CHIP	10K	5%	1/16W
R1157	1-218-963-11	RES-CHIP	6.8K	5%	1/16W
R1158	1-218-963-11	RES-CHIP	6.8K	5%	1/16W
R1159	1-218-963-11	RES-CHIP	6.8K	5%	1/16W
R1160	1-218-953-11	RES-CHIP	1K	5%	1/16W
R1161	1-218-953-11	RES-CHIP	1K	5%	1/16W

Ref. No.	Part No.	Description			
R1162	1-208-912-11	METAL CHIP	11K	0.5%	1/16W
R1163	1-218-963-11	RES-CHIP	6.8K	5%	1/16W
R1164	1-208-912-11	METAL CHIP	11K	0.5%	1/16W
R1165	1-218-965-11	RES-CHIP	10K	5%	1/16W
R1167	1-218-965-11	RES-CHIP	10K	5%	1/16W
R1168	1-218-964-11	RES-CHIP	8.2K	5%	1/16W
R1169	1-208-701-11	METAL CHIP	5.6K	0.5%	1/16W
R1170	1-218-963-11	RES-CHIP	6.8K	5%	1/16W
R1171	1-218-964-11	RES-CHIP	8.2K	5%	1/16W
R1172	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R1173	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R1174	1-218-971-11	RES-CHIP	33K	5%	1/16W
R1175	1-218-971-11	RES-CHIP	33K	5%	1/16W
R1176	1-218-971-11	RES-CHIP	33K	5%	1/16W
R1177	1-218-953-11	RES-CHIP	1K	5%	1/16W
R1178	1-218-968-11	RES-CHIP	18K	5%	1/16W
R1179	1-218-971-11	RES-CHIP	33K	5%	1/16W
R1180	1-218-963-11	RES-CHIP	6.8K	5%	1/16W
R1181	1-218-965-11	RES-CHIP	10K	5%	1/16W
R1182	1-218-965-11	RES-CHIP	10K	5%	1/16W

A-7078-947-A MI-050 BOARD, COMPLETE

< CAPACITOR >

C700	1-164-874-11	CERAMIC CHIP	100PF	5.00%	50V
C701	1-164-874-11	CERAMIC CHIP	100PF	5.00%	50V
C702	1-164-489-11	CERAMIC CHIP	0.22uF	10.00%	16V
C703	1-164-489-11	CERAMIC CHIP	0.22uF	10.00%	16V
C704	1-164-874-11	CERAMIC CHIP	100PF	5.00%	50V
C705	1-164-874-11	CERAMIC CHIP	100PF	5.00%	50V
C706	1-110-569-11	TANTAL. CHIP	47uF	20.00%	6.3V
C709	1-115-467-11	CERAMIC CHIP	0.22uF	10.00%	10V
C710	1-113-682-11	TANTAL. CHIP	33uF	20.00%	10V
C711	1-113-682-11	TANTAL. CHIP	33uF	20.00%	10V

< CONNECTOR >

CN700	1-580-057-11	PIN, CONNECTOR (SMD) 4P
CN701	1-580-057-11	PIN, CONNECTOR (SMD) 4P
CN702	1-573-990-21	CONNECTOR, BOARD TO BOARD 10P
* CN703	1-750-339-21	CONNECTOR, FFC/FPC (ZIF) 14P

< TRANSISTOR >

Q700	8-729-140-75	TRANSISTOR	2SD999-T1-CLCK
Q701	8-729-037-52	TRANSISTOR	2SD2216J-QR(TX).SO
Q702	8-729-403-35	TRANSISTOR	UN5113-TX
Q703	8-729-037-52	TRANSISTOR	2SD2216J-QR(TX).SO
Q704	8-729-402-42	TRANSISTOR	UN5213-TX
Q705	8-729-037-52	TRANSISTOR	2SD2216J-QR(TX).SO
Q706	8-729-037-52	TRANSISTOR	2SD2216J-QR(TX).SO
Q707	8-729-037-52	TRANSISTOR	2SD2216J-QR(TX).SO

< RESISTOR >

R700	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R701	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R702	1-218-880-11	METAL CHIP	24K	0.5%	1/10W
R703	1-218-894-11	METAL CHIP	91K	0.5%	1/10W
R704	1-218-880-11	METAL CHIP	24K	0.5%	1/10W

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PD-217

Ref. No.	Part No.	Description
R705	1-218-894-11	METAL CHIP 91K 0.5% 1/10W
R706	1-216-313-00	METAL CHIP 8.2 5% 1/10W
R707	1-218-949-11	RES-CHIP 470 5% 1/16W
R708	1-218-947-11	RES-CHIP 330 5% 1/16W
R713	1-218-965-11	RES-CHIP 10K 5% 1/16W
R714	1-218-965-11	RES-CHIP 10K 5% 1/16W
R715	1-218-965-11	RES-CHIP 10K 5% 1/16W
R716	1-218-990-11	SHORT CHIP 0
R717	1-218-990-11	SHORT CHIP 0

A-7078-948-A MK-016 BOARD, COMPLETE

< CONNECTOR >

CN001 1-779-327-11 CONNECTOR, FFC/FPC 6P

< DIODE >

D003 8-719-061-82 DIODE TLSU1002(TPX1,SONY)

D004 8-719-073-03 DIODE MA8082-(K8).S0

< RESISTOR >

R001	1-218-950-11	RES-CHIP 560 5% 1/16W
R002	1-218-954-11	RES-CHIP 1.2K 5% 1/16W
R003	1-218-955-11	RES-CHIP 1.5K 5% 1/16W
R004	1-218-959-11	RES-CHIP 3.3K 5% 1/16W
R005	1-218-963-11	RES-CHIP 6.8K 5% 1/16W

R006 1-218-969-11 RES-CHIP 22K 5% 1/16W

< SWITCH >

S001	1-771-138-82	SWITCH, KEY BOARD (PROGRAM AE)
S002	1-771-138-82	SWITCH, KEY BOARD (SHUTTER SPEED)
S003	1-771-138-82	SWITCH, KEY BOARD (WHT BAL)
S004	1-771-138-82	SWITCH, KEY BOARD (AUDIO LEVEL)
S005	1-762-648-21	SWITCH, SLIDE (AUTOLOCK/HOLD)

A-7078-949-A MS-209 BOARD, COMPLETE

< CONNECTOR >

CN775 1-766-644-21 CONNECTOR, FFC/FPC 8P
CN776 1-793-641-11 CONNECTOR, MEMORY STICK

< RESISTOR >

R1002	1-216-864-11	METAL CHIP 0 5% 1/16W
R1003	1-218-990-11	SHORT CHIP 0
R1004	1-216-864-11	METAL CHIP 0 5% 1/16W

A-7078-956-A PD-217 BOARD, COMPLETE

< CAPACITOR >

C2101	1-119-750-11	TANTAL. CHIP 22uF 20.00% 6.3V
C2102	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C2103	1-164-943-11	CERAMIC CHIP 0.01uF 10.00% 16V
C2104	1-117-919-11	TANTAL. CHIP 10uF 20.00% 6.3V
C2105	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V

Ref. No.	Part No.	Description
C2107	1-107-826-11	CERAMIC CHIP 0.1uF 10.00% 16V
C2108	1-164-943-11	CERAMIC CHIP 0.01uF 10.00% 16V
C2109	1-164-943-11	CERAMIC CHIP 0.01uF 10.00% 16V
C2110	1-164-943-11	CERAMIC CHIP 0.01uF 10.00% 16V
C2111	1-164-739-11	CERAMIC CHIP 560PF 5.00% 50V
C2112	1-125-838-11	CERAMIC CHIP 2.2uF 10% 6.3V
C2113	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V
C2114	1-164-943-11	CERAMIC CHIP 0.01uF 10.00% 16V
C2115	1-100-502-11	TANTAL. CHIP 3.3uF 20% 25V
C2116	1-164-937-11	CERAMIC CHIP 0.001uF 10.00% 50V

C2117	1-164-872-11	CERAMIC CHIP 82PF 5.00% 50V
C2118	1-125-838-11	CERAMIC CHIP 2.2uF 10% 6.3V
C2119	1-125-838-11	CERAMIC CHIP 2.2uF 10% 6.3V
C2120	1-125-838-11	CERAMIC CHIP 2.2uF 10% 6.3V
C2123	1-100-502-11	TANTAL. CHIP 3.3uF 20% 25V

C2124	1-164-943-11	CERAMIC CHIP 0.01uF 10.00% 16V
C2125	1-163-021-91	CERAMIC CHIP 0.01uF 10.00% 50V
C2126	1-115-566-11	CERAMIC CHIP 4.7uF 10.00% 10V
C2127	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V
C2128	1-107-725-11	CERAMIC CHIP 0.1uF 10.00% 16V

C2133	1-109-982-11	CERAMIC CHIP 1uF 10.00% 10V
C2181	1-119-751-11	TANTAL. CHIP 22uF 20.00% 16V
C2182	1-164-943-11	CERAMIC CHIP 0.01uF 10.00% 16V
C2183	1-119-751-11	TANTAL. CHIP 22uF 20.00% 16V
C2184	1-164-943-11	CERAMIC CHIP 0.01uF 10.00% 16V

C2185	1-104-851-11	TANTAL. CHIP 10uF 20.00% 10V
C2186	1-125-777-11	CERAMIC CHIP 0.1uF 10.00% 10V

< CONNECTOR >

CN2100	1-794-378-21	PIN, CONNECTOR 14P
CN2101	1-794-377-21	PIN, CONNECTOR 8P
* CN2103	1-778-155-11	CONNECTOR, FFC/FPC (ZIF) 7P
* CN2104	1-778-172-11	CONNECTOR, FFC/FPC (ZIF) 24P
CN2105	1-764-704-21	CONNECTOR, FFC/FPC (LIF) 5P

< DIODE >

D2101	8-719-404-50	DIODE MA111-TX
D2102	8-719-084-46	DIODE 1SV288(TPH3)
D2104	8-719-050-42	DIODE RD3.3UM-T1B
D2181	8-719-059-47	DIODE PG1111R-TR

< IC >

IC2101	8-752-109-08	IC CXA3289BR-T4
IC2103	8-752-409-15	IC CXD3516R-T4

< COIL >

L2101	1-414-755-11	INDUCTOR 22uH
L2102	1-414-754-11	INDUCTOR 10uH
L2103	1-414-754-11	INDUCTOR 10uH
L2104	1-412-943-11	INDUCTOR 2.2uH
L2181	1-412-056-11	INDUCTOR 4.7uH

L2182 1-414-757-11 INDUCTOR 100uH

< TRANSISTOR >

Q2101	8-729-427-74	TRANSISTOR XP4601-TXE
Q2102	8-729-037-74	TRANSISTOR UN9213J-(TX).S0
Q2103	8-729-427-74	TRANSISTOR XP4601-TXE
Q2104	8-729-041-23	TRANSISTOR NDS356AP
Q2109	8-729-042-26	TRANSISTOR 2SB1462J-QR(K8).S0

DCR-VX2100/VX2100E

PD-217

SE-147

VC-358

Ref. No.	Part No.	Description			
Q2111	8-729-037-52	TRANSISTOR	2SD2216J-QR(K8).SO		
Q2112	8-729-048-77	TRANSISTOR	XP4313-(TX).SO		
Q2181	8-729-042-72	TRANSISTOR	UN9214J-(K8).SO		
Q2182	8-729-037-53	TRANSISTOR	2SA1832F-Y/GR(TPL3)		
Q2183	8-729-042-59	TRANSISTOR	UN9112J-(K8).SO		
< RESISTOR >					
R2111	1-218-985-11	RES-CHIP	470K	5%	1/16W
R2112	1-218-985-11	RES-CHIP	470K	5%	1/16W
R2113	1-218-990-11	SHORT CHIP	0		
R2115	1-218-958-11	RES-CHIP	2.7K	5%	1/16W
R2116	1-218-973-11	RES-CHIP	47K	5%	1/16W
R2117	1-218-975-11	RES-CHIP	68K	5%	1/16W
R2118	1-218-969-11	RES-CHIP	22K	5%	1/16W
R2119	1-218-975-11	RES-CHIP	68K	5%	1/16W
R2122	1-218-989-11	RES-CHIP	1M	5%	1/16W
R2123	1-218-990-11	SHORT CHIP	0		
R2124	1-218-977-11	RES-CHIP	100K	5%	1/16W
R2129	1-218-990-11	SHORT CHIP	0		
R2134	1-208-635-11	RES-CHIP	10	5%	1/16W
R2136	1-208-635-11	RES-CHIP	10	5%	1/16W
R2137	1-208-635-11	RES-CHIP	10	5%	1/16W
R2138	1-218-941-81	RES-CHIP	100	5%	1/16W
R2143	1-218-965-11	RES-CHIP	10K	5%	1/16W
R2144	1-218-977-11	RES-CHIP	100K	5%	1/16W
R2146	1-218-990-11	SHORT CHIP	0		
R2147	1-218-990-11	SHORT CHIP	0		
R2148	1-218-965-11	RES-CHIP	10K	5%	1/16W
R2153	1-218-990-11	SHORT CHIP	0		
R2157	1-208-935-11	METAL CHIP	100K	0.5%	1/16W
R2158	1-208-703-11	METAL CHIP	6.8K	0.5%	1/16W
R2159	1-218-979-11	RES-CHIP	150K	5%	1/16W
R2160	1-208-957-11	RES-CHIP	820K	5%	1/16W
R2162	1-218-990-11	SHORT CHIP	0		
R2163	1-218-990-11	SHORT CHIP	0		
R2165	1-218-990-11	SHORT CHIP	0		
R2166	1-218-965-11	RES-CHIP	10K	5%	1/16W
R2167	1-216-295-91	SHORT CHIP	0		
R2168	1-218-990-11	SHORT CHIP	0		
R2169	1-218-990-11	SHORT CHIP	0		
R2170	1-218-977-11	RES-CHIP	100K	5%	1/16W
R2172	1-218-990-11	SHORT CHIP	0		
R2173	1-218-990-11	SHORT CHIP	0		
R2174	1-218-990-11	SHORT CHIP	0		
R2175	1-218-990-11	SHORT CHIP	0		
R2176	1-218-990-11	SHORT CHIP	0		
R2181	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R2182	1-218-953-11	RES-CHIP	1K	5%	1/16W
R2183	1-218-941-81	RES-CHIP	100	5%	1/16W
R2184	1-218-990-11	SHORT CHIP	0		

A-7078-950-A SE-147 BOARD, COMPLETE

< CAPACITOR >

C600	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C601	1-127-895-91	TANTAL. CHIP	22uF	20%	4V

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	
< CONNECTOR >			
CN600	1-766-336-21	CONNECTOR, FFC/FPC 6P	
< COIL >			
L600	1-414-754-11	INDUCTOR	10uH
< SENSOR >			
SE600	1-803-042-31	SENSOR, ANGULAR VELOCITY (YAW)	
SE601	1-803-042-41	SENSOR, ANGULAR VELOCITY (PITCH)	

A-7112-572-A VC-358 BOARD, COMPLETE (SERVICE)

Electrical parts list of the VC-358 board
are not shown.
Pages from 5-27 to 5-35 are not shown.

DCR-VX2100/VX2100E

ZM-030

RM-091

Ref. No.	Part No.	Description
	A-7078-951-A	ZM-030 BOARD, COMPLETE *****
		< BATTERY >
△ BT801	1-756-128-11	BATTERY, LITHIUM (SECONDARY)
△ BT802	1-756-128-11	BATTERY, LITHIUM (SECONDARY)
		< CONNECTOR >
CN801	1-766-337-21	CONNECTOR, FFC/FPC 7P
		< DIODE >
D801	8-719-064-61	DIODE 01BZA8.2(TE85L)
		< RESISTOR >
R801	1-218-965-11	RES-CHIP 10K 5% 1/16W
R803	1-218-965-11	RES-CHIP 10K 5% 1/16W
R804	1-218-965-11	RES-CHIP 10K 5% 1/16W
R805	1-218-941-81	RES-CHIP 100 5% 1/16W
R806	1-218-965-11	RES-CHIP 10K 5% 1/16W
R807	1-218-941-81	RES-CHIP 100 5% 1/16W
R809	1-218-990-11	SHORT CHIP 0
		< SWITCH >
S801	1-572-342-11	SWITCH, SLIDE (H/L/OFF)
S802	1-786-157-31	TACTILE SWITCH (REC)
S803	1-786-157-31	TACTILE SWITCH (W)
S804	1-786-157-31	TACTILE SWITCH (T)
	A-7078-955-A	RM-091 BOARD, COMPLETE *****
		< CAPACITOR >
C1109	1-117-919-11	TANTAL. CHIP 10uF 20.00% 6.3V
		< DIODE >
D1105	8-719-951-20	DIODE BR1102W-TR
D1106	8-719-073-03	DIODE MA8082-(K8).S0
D1107	8-719-073-01	DIODE MA111-(K8).S0
D1108	8-719-073-01	DIODE MA111-(K8).S0
D1109	8-719-073-01	DIODE MA111-(K8).S0
D1110	8-719-073-01	DIODE MA111-(K8).S0
		< IC >
IC1102	8-749-013-13	IC RS-70-TU
		< TRANSISTOR >
Q1104	8-729-037-71	TRANSISTOR UN9210J-(TX).S0
		< RESISTOR >
R1121	1-218-951-11	RES-CHIP 680 5% 1/16W
R1122	1-218-990-11	SHORT CHIP 0
R1123	1-218-990-11	SHORT CHIP 0
R1125	1-218-937-11	RES-CHIP 47 5% 1/16W
R1126	1-218-953-11	RES-CHIP 1K 5% 1/16W

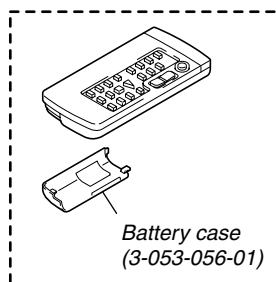
Ref. No.	Part No.	Description
		< SWITCH >
S1100	1-572-473-11	SWITCH, TACTILE (CUSTOM PRESET)

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

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.
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Checking supplied accessories.

Make sure that the following accessories are supplied with your camcorder.



Wireless Remote Commander (1)
(RMT-811)
1-475-950-53



Power cord (Main lead) (1)
(AUS model)

△ 1-696-819-21

Power cord (Main lead) (1)
(AEP, E model)

△ 1-769-608-11

Power cord (Main lead) (1)
(KR model)

△ 1-776-985-11

Power cord (Main lead) (1)
(CH model)

△ 1-782-476-13

Power cord (Main lead) (1)
(UK, HK model)

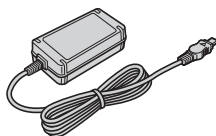
△ 1-783-374-11

Power cord (Main lead) (1)
(US, CND model)

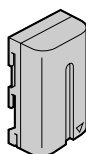
△ 1-790-107-22

Power cord (Main lead) (1)
(JE model)

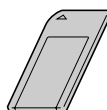
△ 1-790-732-12



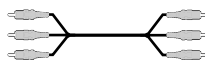
AC Adaptor (1)
△ 1-477-533-51



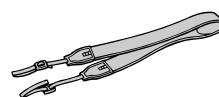
Rechargeable battery pack (1)
(NP-F330)
A-7094-140-A
(US, CND model)
A-7094-141-A
(AEP, UK, E, HK, AUS, JE model)
A-7095-596-A
(CH model)



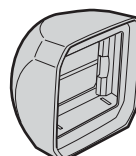
Memory stick (1)
(MSA-8A)
A-7024-735-A



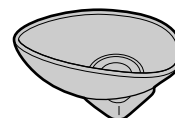
A/V connecting cable (1.5m) (1)
1-823-364-21



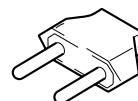
Shoulder strap (1)
3-987-015-01



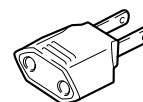
Hood with a lens cap (1)
3-088-528-01



Eye cup (1)
3-087-515-01



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



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



21-pin adaptor (1)
(AEP, UK model)
1-770-783-21

• Abbreviation

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

Other accessories

3-087-414-11 MANUAL, INSTRUCTION (ENGLISH)
(VX2100:US,CND,E,HK,JE)

3-087-414-21 MANUAL, INSTRUCTION (FRENCH) (CND)

3-087-414-31 MANUAL, INSTRUCTION (SPANISH/PORTUGUESE)
(VX2100:E,JE)

3-087-414-41 MANUAL, INSTRUCTION (TRADITIONAL CHINESE)
(VX2100:E,HK)

3-087-414-51 MANUAL, INSTRUCTION (ARABIC) (VX2100:E)

3-087-414-61 MANUAL, INSTRUCTION (KOREAN) (VX2100:JE,KR)

3-087-415-11 MANUAL, INSTRUCTION (ENGLISH/RUSSIAN) (VX2100E)

3-087-415-21 MANUAL, INSTRUCTION (SPANISH/PORTUGUESE) (AEP)

3-087-415-31 MANUAL, INSTRUCTION (FRENCH/GERMAN)
(VX2100E:AEP,E,JE)

3-087-415-41 MANUAL, INSTRUCTION (DUTCH/ITALIAN) (AEP)

3-087-415-51 MANUAL, INSTRUCTION (ARABIC/PERSIAN)
(VX2100E:E)

3-087-415-61 MANUAL, INSTRUCTION (TRADITIONAL CHINESE)
(VX2100E:HK)

3-087-415-71 MANUAL, INSTRUCTION (SIMPLIFIED CHINESE)

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.

DCR-VX2100/VX2100E

RMT-811

SONY®

LEVEL 2

SERVICE MANUAL

Ver. 1.4 2008.10

US Model
Canadian Model
Korea Model

DCR-VX2100

AEP Model

UK Model

Australian Model

Chinese Model

DCR-VX2100E

E Model

Hong Kong Model

Tourist Model

DCR-VX2100/VX2100E

SUPPLEMENT-3

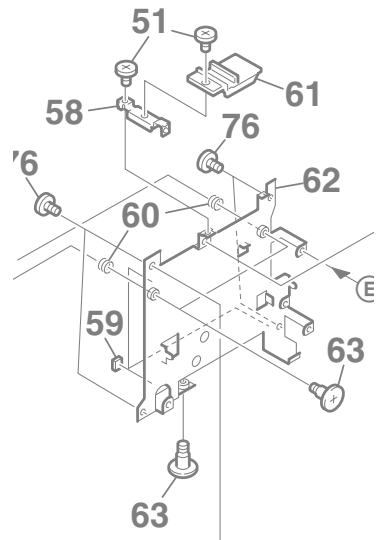
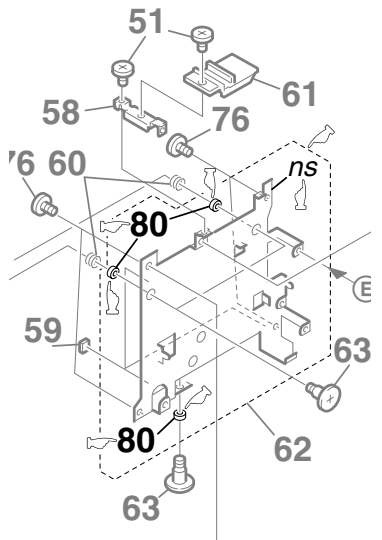
File this supplement-3 with the service manual.
(DI08-241)

- Addition of Repair Parts
- Addition of HELP

5. REPAIR PARTS LIST

5-1. EXPLODED VIEWS

 : Added portion

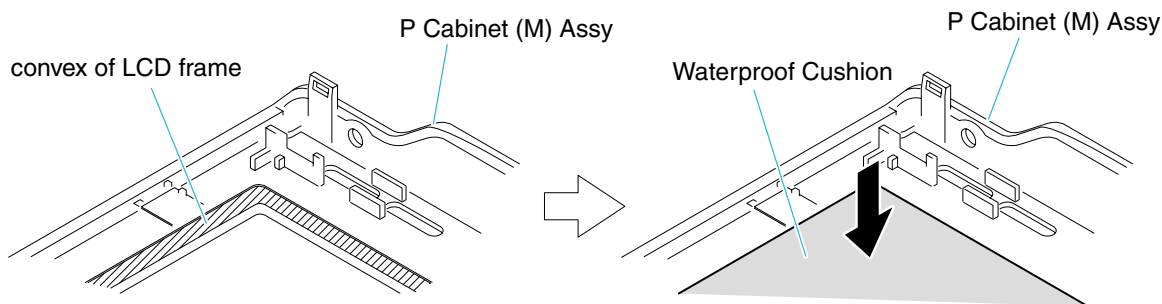
Page	Before change	After change											
5-4	5-1-2. OVERALL SECTION-2 	5-1-2. OVERALL SECTION-2 ns: not supplied 											
	<table><thead><tr><th>Ref. No.</th><th>Part No.</th><th>Description</th></tr></thead><tbody><tr><td>—</td><td>—</td><td>—</td></tr></tbody></table>	Ref. No.	Part No.	Description	—	—	—	<table><thead><tr><th>Ref. No.</th><th>Part No.</th><th>Description</th></tr></thead><tbody><tr><td>* 80</td><td>3-055-316-01</td><td>CUSHION, MD </td></tr></tbody></table>	Ref. No.	Part No.	Description	* 80	3-055-316-01
Ref. No.	Part No.	Description											
—	—	—											
Ref. No.	Part No.	Description											
* 80	3-055-316-01	CUSHION, MD 											

Page	Before change	After change
5-6	5-1-4. CABINET (R) SECTION-1 Ref. No. Part No. Description _____	5-1-4. CABINET (R) SECTION-1 Ref. No. Part No. Description 173 3-299-475-01 CUSHION, WATERPROOF ✎

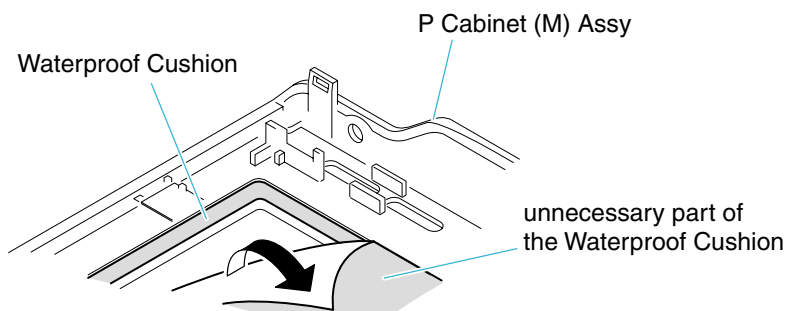
• Addition of HELP

HELP

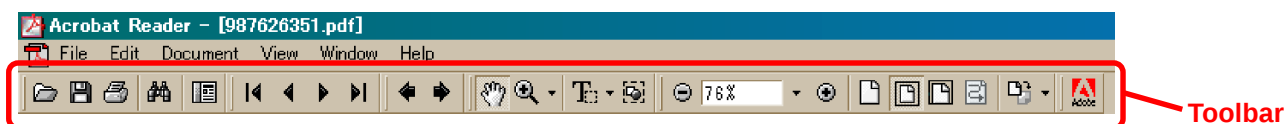
1. Attach whole the Waterproof Cushion to be adjusting to the convex of LCD frame of the P Cabinet (M) Assy.



2. Remove the unnecessary part of the Waterproof Cushion of LCD frame, and confirm that there is no extrusion when you look through the LCD frame from the surface.



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



Printing a text

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

Application of printing:

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

Reversing the screens displayed once

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

Application to the Service Manual:

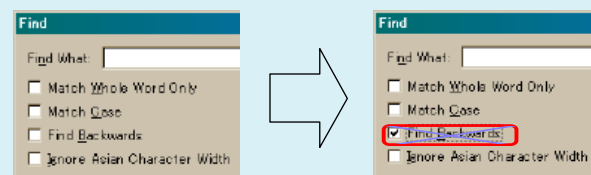
This function allows you to go and back between circuit diagram and printed circuit board diagram, and accordingly it will be convenient for the voltage check.

Finding a text

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

Application to the Service Manual:

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



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

Application to the Service Manual:

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

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

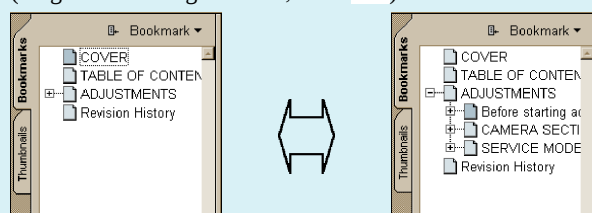
Moving with link

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

Moving with bookmark:

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

(To go back to original state, click )



Zooming or rotating the screen display

"Zoom in/out"

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



"Rotate"

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

Application to the Service Manual:

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

Switching a page

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

Revision History

Ver.	Date	History	Contents	S.M. Rev. issued
1.0	2003.10	Official Release	—	—
1.1	2005.06	Supplement-1	• Change of repair parts list	No
1.2	2006.10	Supplement-2 (DI06-077)	• Change of repair parts list	No
1.3	2007.09	Revised-1	• Change of repair parts list • Contents of Supplement-1 (9-876-288-81) and Supplement-2 (9-876-288-82) are incorporated. S.M. correction: Page 5-8 , 5-12	Yes
1.4	2008.10	Supplement-3 (DI08-241)	• Addition of Repair Parts • Addition of HELP	No