

DCR-TRV345E/TRV350/TRV351/TRV355E/TRV356E

RMT-814

SERVICE MANUAL

LEVEL 2

Ver 1.0 2002.12

Revision History



Photo: DCR-TRV350

M2000 MECHANISM

US Model

Canadian Model
DCR-TRV350

AEP Model

DCR-TRV345E/TRV355E

UK Model

DCR-TRV355E

East European Model

North European Model

DCR-TRV345E/TRV355E

E Model

DCR-TRV350/TRV351/TRV355E/TRV356E

Australian Model

DCR-TRV355E

Brazilian Model

DCR-TRV351

Chinese Model

DCR-TRV356E

Korea Model

DCR-TRV350

Tourist Model

DCR-TRV350/TRV355E

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 (987621851.pdf).
- For INSTRUCTION MANUAL, refer to SERVICE MANUAL, LEVEL1 (987621841.pdf).
- For MECHANISM ADJUSTMENTS, refer to the "8mm Video MECHANICAL ADJUSTMENT MANUAL IX [M2000 MECHANISM]" (9-929-861-11).
- Reference No. search on printed wiring boards is available.
- Table for differences of function of each model.
- HELP: Sheet attachment positions and procedures of processing the flexible boards/harnesses are shown.

On the VC-305 board

This service manual provides the information that is premised the circuit board replacement service and not intended repair inside the VC-305 board.

Therefore, schematic diagram, printed wiring board, waveforms, mounted parts location and electrical parts list of the VC-305 board are not shown.

The following pages are not shown.

Schematic diagram	Pages 4-9 to 4-48	Mounted parts location	Page 4-90 to 4-91
Printed wiring board	Pages 4-67 to 4-70	Electrical parts list	Pages 5-17 to 5-26
Waveforms	Page 4-82 to 4-87		

Digital 8 DIGITAL VIDEO CAMERA RECORDER

SONY®



Digital Handycam



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-TRV350/TRV351:
NTSC color, EIA standards
DCR-TRV345E/TRV355E/TRV356E:
PAL color, CCIR standards

Usable cassette
8 mm video format cassette

Recording/playback time
DCR-TRV350/TRV351:
(using 120 min. Digital8 video cassette)
DCR-TRV345E/TRV355E/TRV356E:
(using 90 min. Digital8 video cassette)
SP mode: 1 hour
LP mode: 1 hour and 30 minutes

Fastforward/rewind time
DCR-TRV350/TRV351:
(using 120 min. Digital8 video cassette)
DCR-TRV345E/TRV355E/TRV356E:
(using 90 min. Digital8 video cassette)
Approx. 5 min.

Viewfinder
Electric viewfinder (monochrome)

Image device
3 mm (1/6 type) CCD
(Charge Coupled Device)
DCR-TRV350/TRV351:
Gross: Approx. 460 000 pixels
Effective: Approx. 290 000 pixels
DCR-TRV345E/TRV355E/TRV356E:
Gross: Approx. 800 000 pixels
Effective: Approx. 400 000 pixels

Lens
Combined power zoom lens
Filter diameter 37 mm. (1 7/16 in.)
20× (Optical), 700×(Digital)

Focal length
f = 2.5 - 50 mm (1/8 - 2 in.)
When converted to a 35 mm still camera
DCR-TRV350/TRV351:
f = 42 - 840 mm (1 11/16 - 33 1/8 in.)
DCR-TRV345E/TRV355E/TRV356E:
f = 45 - 900 mm (1 13/16 - 35 1/2 in.)

Color temperature
Auto

Minimum illumination
DCR-TRV350/TRV351:
4 lx (lux) (F 1.6)
DCR-TRV345E/TRV355E/TRV356E:
6 lx (lux) (F 1.6)
0 lx (lux) (in the NightShot mode)*
* Objects unable to be seen due to the dark can be shot with infrared lighting.

Input/Output connectors

S video jack
Input/Output
4-pin mini DIN
Luminance signal: 1 Vp-p, 75 Ω (ohms), unbalanced
Chrominance signal:
DCR-TRV350/TRV351: 0.286 Vp-p
DCR-TRV345E/TRV355E/TRV356E:
0.3 Vp-p
75 Ω (ohms), unbalanced

Audio/Video jack
Input/Output
AV MINI JACK
VIDEO: 1 Vp-p, 75 Ω (ohms), unbalanced, sync negative
AUDIO: 327 mV, (at output impedance more than 47 kΩ (kilohms))
Input impedance with more than 47 kΩ (kilohms)
Output impedance with less than 2.2 kΩ (kilohms)
Stereo minijack (ø 3.5 mm)

MIC jack
Stereo minijack (ø 3.5 mm)

DV jack
4-pin connector

USB jack
mini-B

LANC jack
Stereo minijack (ø 2.5 mm)

LCD screen

Picture
6.2 cm (2.5 type)
50.3 × 37.4 mm (2 × 1 1/2 in.)

Total dot number
123 200 (560 × 220)

General

Power requirements
7.2 V (Rechargeable battery pack)
8.4 V (AC adaptor)

Average power consumption (when using the battery pack)
During camera recording using LCD: 3.8 W
Viewfinder: 2.9 W

Operating temperature
0 °C to 40 °C (32 °F to 104 °F)

Recommended charging temperature
10 °C to 30 °C (50 °F to 86 °F)

Storage temperature
-20 °C to +60 °C (-4 °F to +140 °F)

Dimensions (approx.)
89 × 101 × 199 mm
(3 5/8 × 4 × 7 7/8 in.) (w/h/d)

Mass (approx.)
Main unit only
DCR-TRV350/TRV351/TRV355E/TRV356E:
830 g (1 lb 13 oz)
DCR-TRV345E:
820 g (1 lb 12 oz)
Including the rechargeable battery pack, NP-FM30, Digital8 cassette, lens cap, and shoulder strap
DCR-TRV350/TRV351/TRV355E/TRV356E:
970 g (2 lb 2 oz)
DCR-TRV345E:
960 g (1 lb 1 oz)

AC adaptor

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 in the operating mode

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 × 4 1/4 × 4 in.) (w/h/d) excluding projecting parts

Mass (approx.)
190 g (6.7 oz)
DCR-TRV350/TRV351:
excluding the power cord
DCR-TRV345E/TRV355E/TRV356E:
excluding the main lead

Rechargeable battery pack

Maximum output voltage
DC 8.4 V

Output voltage
DC 7.2 V

Capacity
5.0 Wh (700 mAh)

Operating temperature
0 °C to 40 °C (32 °F to 104 °F)

Dimensions (approx.)
38.2 × 20.5 × 55.6 mm
(1 9/16 × 13/16 × 2 1/4 in.) (w/h/d)

Mass (approx.)
65 g (2.3 oz)

Type
Lithium ion

"Memory Stick"

DCR-TRV351/TRV356E:
Memory
Flash memory
8MB: MSA-8A

Operating voltage
2.7-3.6 V

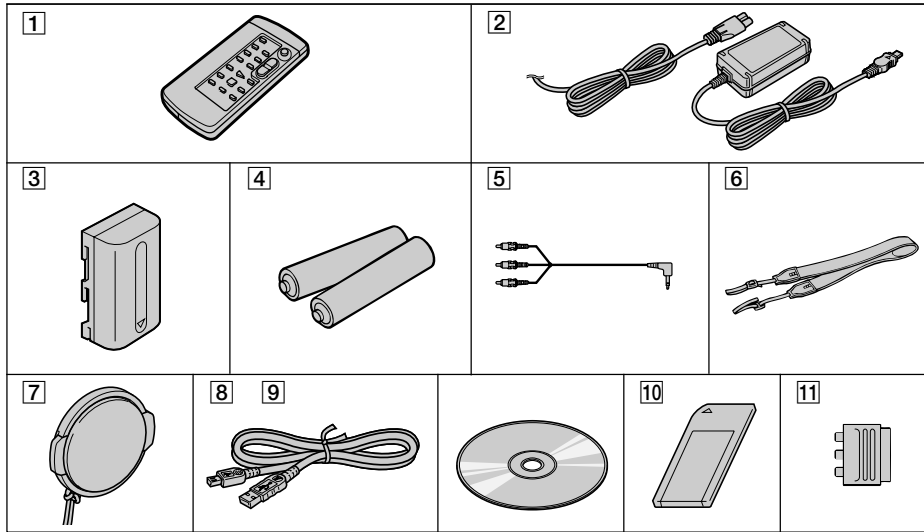
Power consumption
Approx. 45 mA during operation
Approx. 130 μA in the standby mode

Dimensions (approx.)
50 × 2.8 × 21.5 mm
(2 × 1/8 × 7/8 in.) (w/h/d)

Mass (approx.)
4 g (0.14 oz)

Design and specifications are subject to change without notice.

Supplied accessories



- 1 Wireless Remote Commander (1)
RMT-814
- 2 AC-L15A/L15B AC Adaptor (1),
Power cord (1)
- 3 NP-FM30 Rechargeable Battery Pack (1)
- 4 R6 (Size AA) battery for Remote
Commander (1)
- 5 A/V connecting cable (1)
- 6 Shoulderstrap (1)
- 7 Lens cap (1)
- 8 USB cable(1)
- 9 CD-ROM (SPVD-010 USB Driver) (1)
- 10 "Memory Stick" (1)
DCR-TRV350/TRV351/TRV355E/TRV356E
- 11 21-pin adaptor (1)
AEP, UK, EE, NE

Table for differences of function

Model	DCR-TRV345E	DCR-TRV350	DCR-TRV351	DCR-TRV355E	DCR-TRV356E
Destination	AEP, EE, NE	US, CND, E, KR, JE	E, BR	AEP, UK, EE, NE, E, AUS, JE	E, CH
Color system	PAL	NTSC		PAL	
CCD imager	960H	720H		960H	
Minimum illumination	6 lx	4 lx		6 lx	
	0 lx (In the Nightshot mode)				
Memory stick slot	×			○	
Tape PB zoom	×			○	

- Abbreviation
 AUS : Australian model CND: Canadian model KR : Korean model
 BR :Brazilian model EE : East European model NE : North European model
 CH : Chinese model JE : Tourist model

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 IDENTIFÉS PAR UNE MARQUE \triangle SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer.

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
4. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5. Check the B+ voltage to see it is at the values specified.
6. Flexible Circuit Board Repairing
 - Keep the temperature of the soldering iron around 270°C during repairing.
 - Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
 - Be careful not to apply force on the conductor when soldering or unsoldering.

Unleaded solder

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead. (Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)



: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.
Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
Soldering irons using a temperature regulator should be set to about 350°C.
Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

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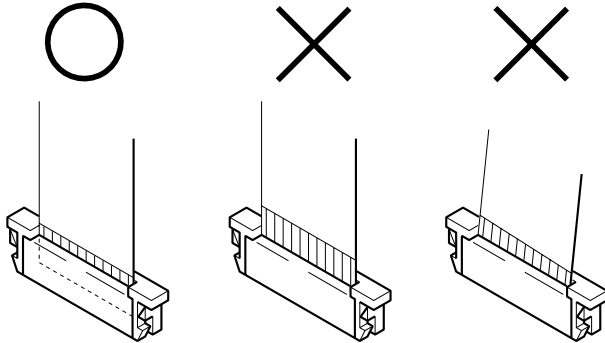
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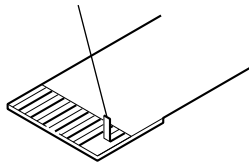
SECTION 1 SERVICE NOTE

1-1. NOTE FOR REPAIR

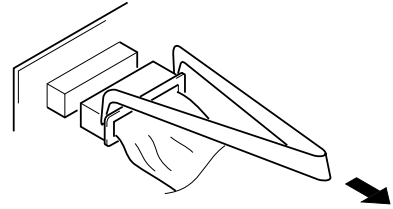
Make sure that the flat cable and flexible board are not cracked or bent at the terminal.
Do not insert the cable insufficiently nor crookedly.



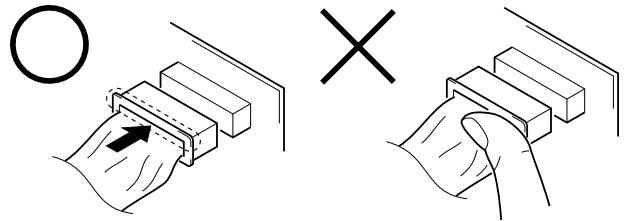
Cut and remove the part of gilt which comes off at the point.
(Be careful or some pieces of gilt may be left inside)



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



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



1-2. 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.

The following method is available to prevent this.

Method 1.

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

1-4. SELF-DIAGNOSIS FUNCTION

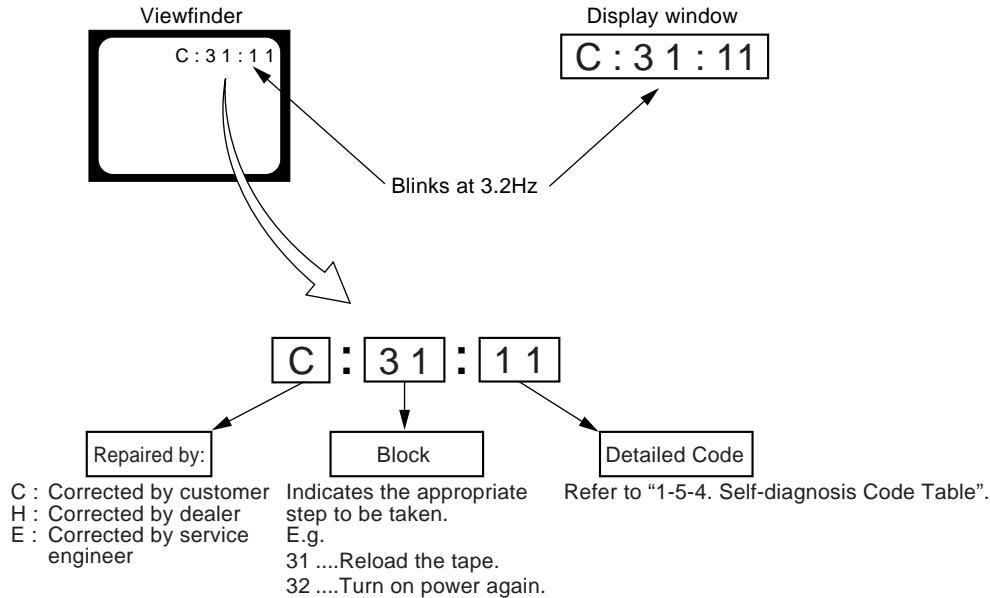
1-4-1. Self-diagnosis Function

When problems occur while the unit is operating, the self-diagnosis function starts working, and displays on the viewfinder or Display 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.

1-4-2. Self-diagnosis Display

When problems occur while the unit is operating, the counter of the viewfinder or Display window shows a 4-digit display consisting of an alphabet and 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.

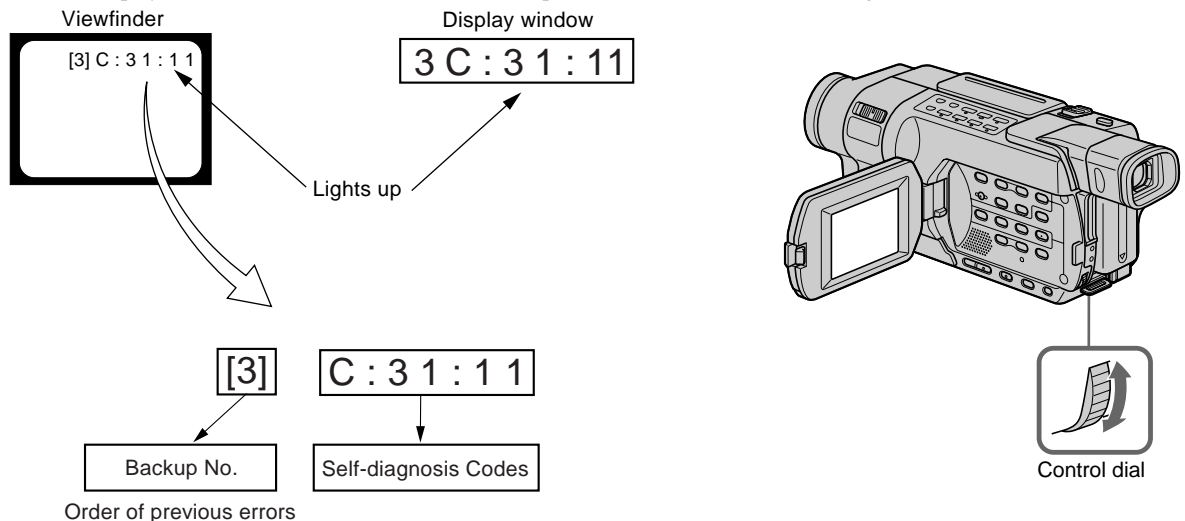


1-4-3. Service Mode Display

The service mode display shows up to six self-diagnosis codes shown in the past.

1. Display Method

While pressing the “STOP” key, set the switch from OFF to “VCR”, and continue pressing the “STOP” key for 5 seconds continuously. The service mode will be displayed, and the counter will show the backup No. and the 5-character self-diagnosis codes.



2. Switching of Backup No.

By rotating the control dial, past self-diagnosis codes will be shown in order. The backup No. in the [] indicates the order in which the problem occurred. (If the number of problems which occurred is less than 6, only the number of problems which occurred will be shown.)

[1] : Occurred first time [3] : Occurred third time [5] : Occurred fifth time
[2] : Occurred second time [4] : Occurred fourth time [6] : Occurred the last time

3. End of Display

Turning OFF the power supply will end the service mode display.

Note: The “self-diagnosis display” data will be backed up by the lithium battery (CONTROL SWITCH BLOCK (CF-300): BT001). When removing the cabinet (R) (removing the VC-305 board CN1007), the “self-diagnosis display” data will be lost by initialization.

1-4-4. Self-diagnosis Code Table

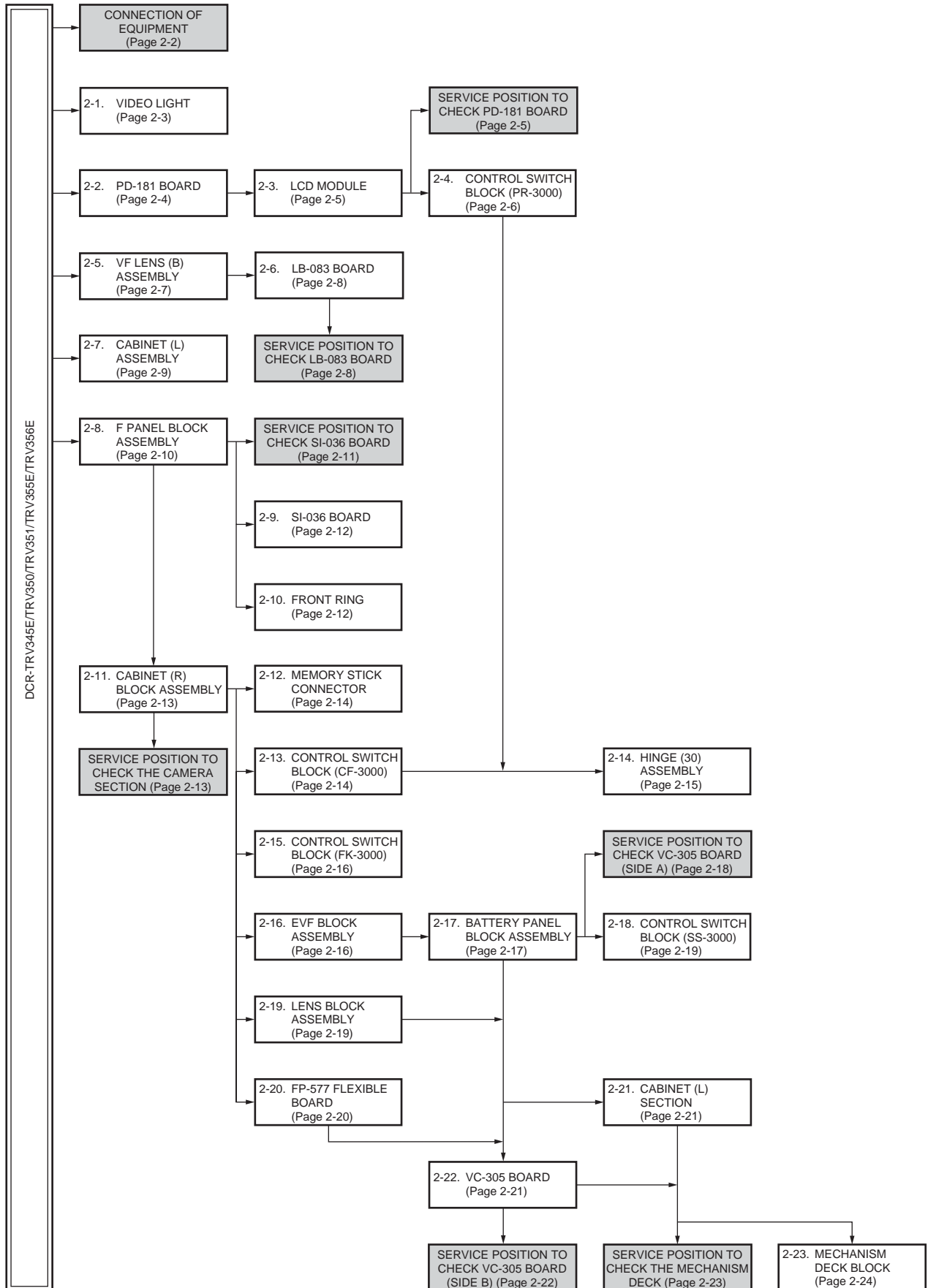
Self-diagnosis Code				Symptom/State	Correction
Repaired by:	Block Function	Detailed Code			
C	0 4	0 0		Non-standard battery is used.	Use the info LITHIUM battery.
C	2 1	0 0		Condensation.	Remove the cassette, and insert it again after one hour.
C	2 2	0 0		Video head is dirty.	Clean with the optional 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 ⑫ of VC-305 board CN1551) when focusing is performed when the control dial is rotated in the focus manual mode, and the focus motor drive circuit (IC1554 of VC-305 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 ⑬ of VC-305 board CN1551) when zooming is performed when the zoom switch is operated and the zoom motor drive circuit (IC1554 of VC-305 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 (SE751 of SI-036 board)
E	6 2	0 1		Steadyshot function does not work well. (With yaw angular velocity sensor output stopped.)	Inspect yaw angular velocity sensor (SE752 of SI-036 board)



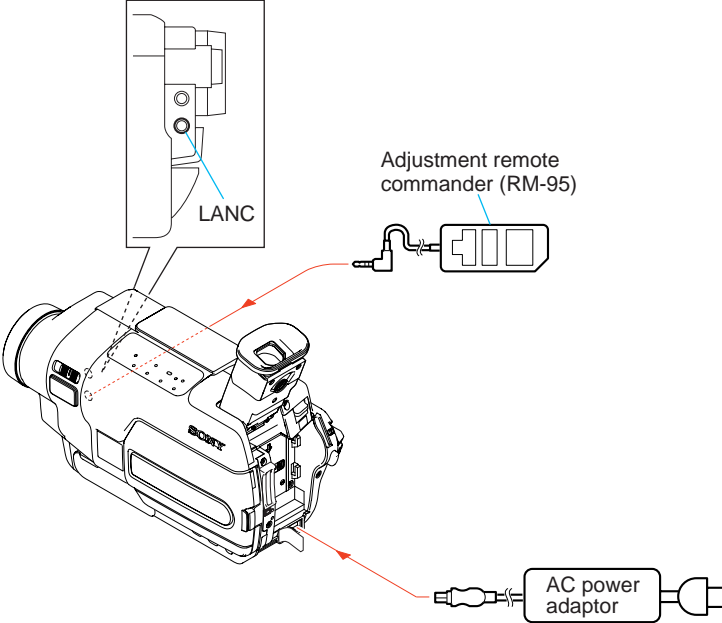
**SECTION 2
DISASSEMBLY**



The following flow chart shows the disassembly procedure.

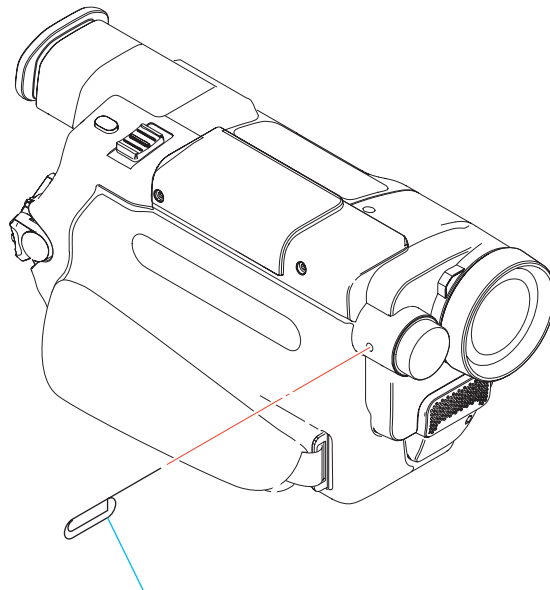


[CONNECTION OF EQUIPMENT]

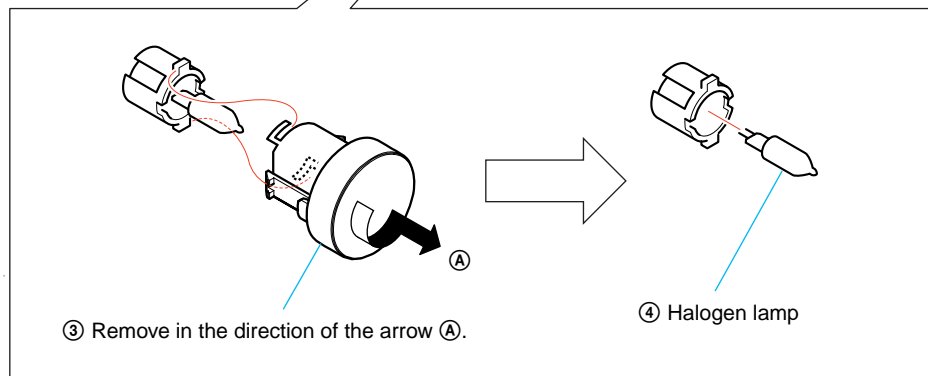
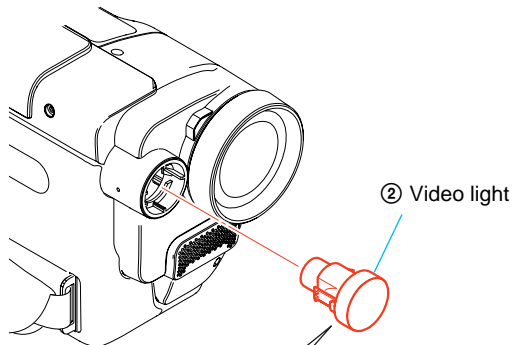
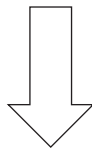


Note: Follow the disassembly procedure in the numerical order given.

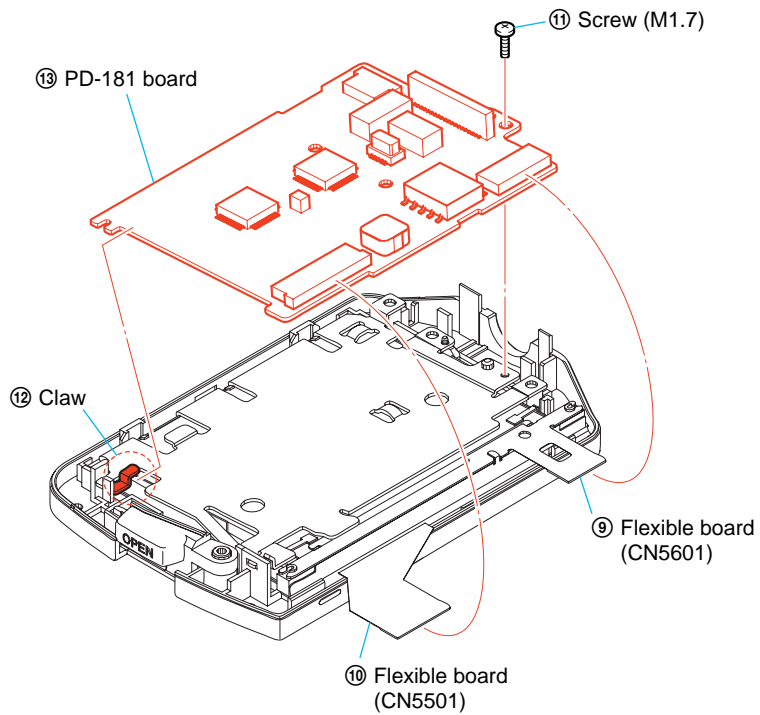
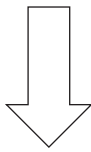
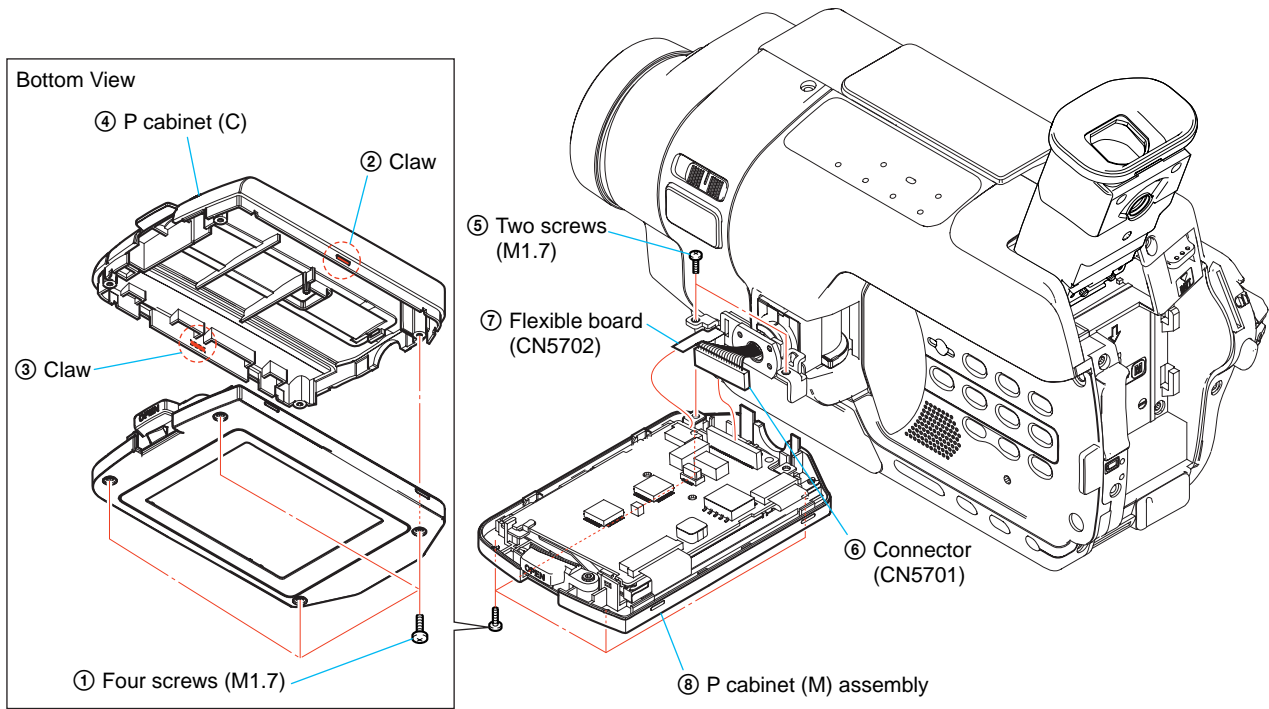
2-1. VIDEO LIGHT



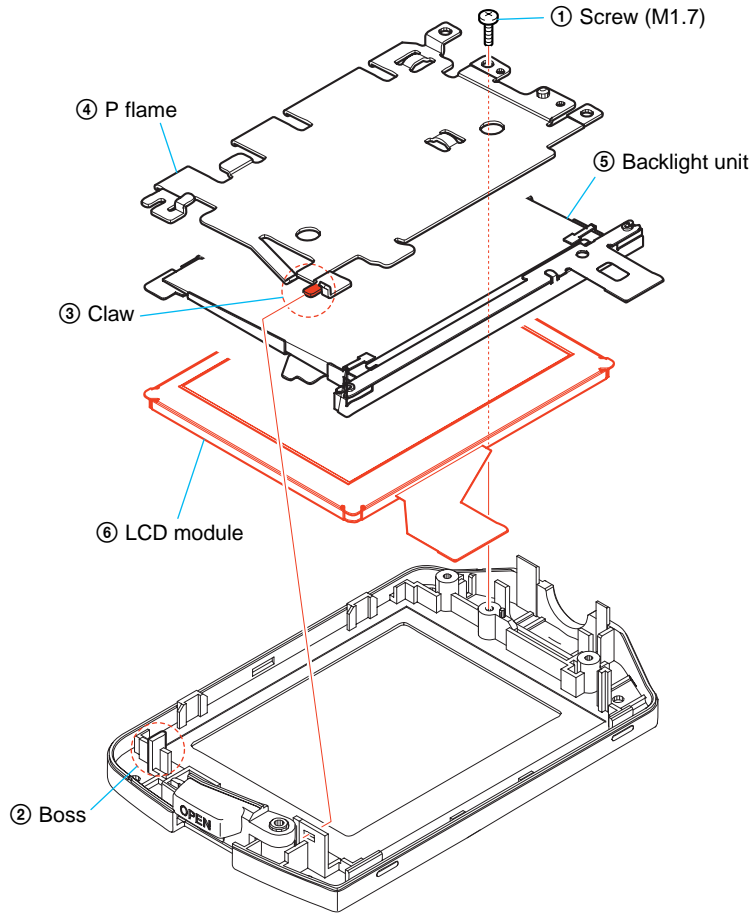
① Push in the dent inside hole with wire tip.



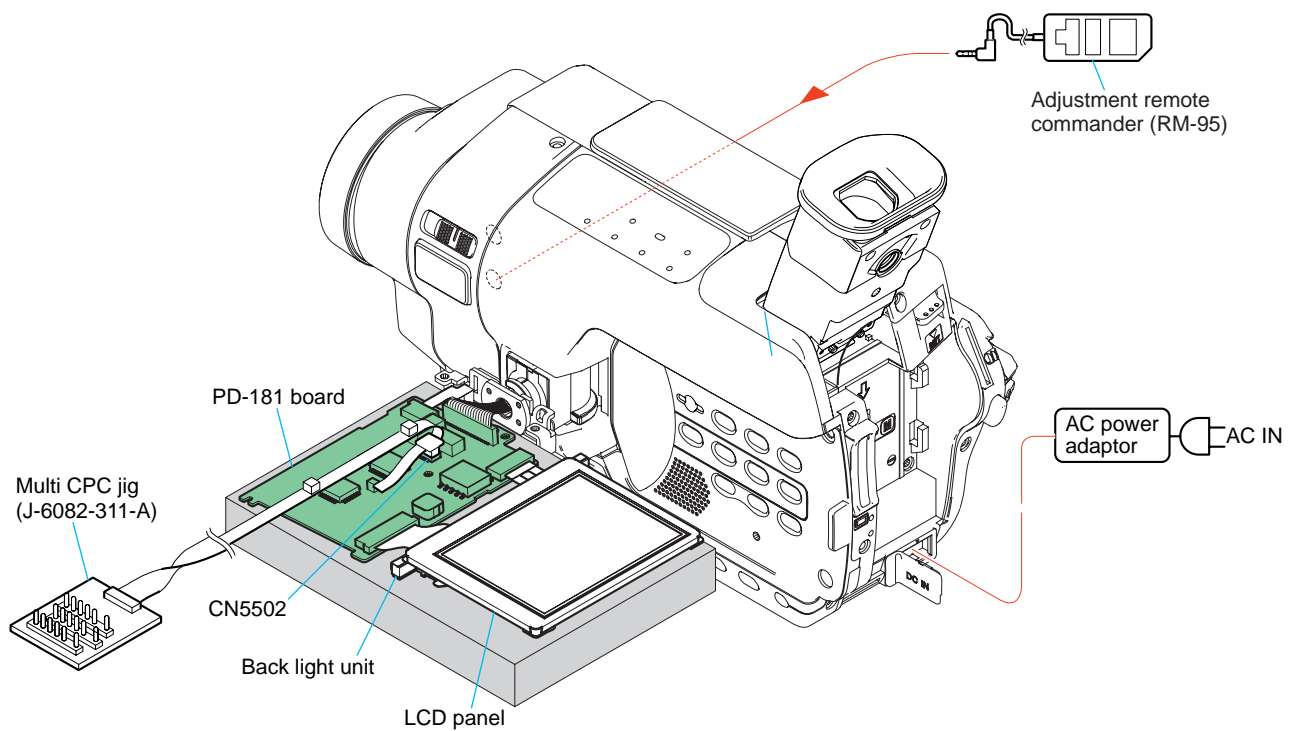
2-2. PD-181 BOARD



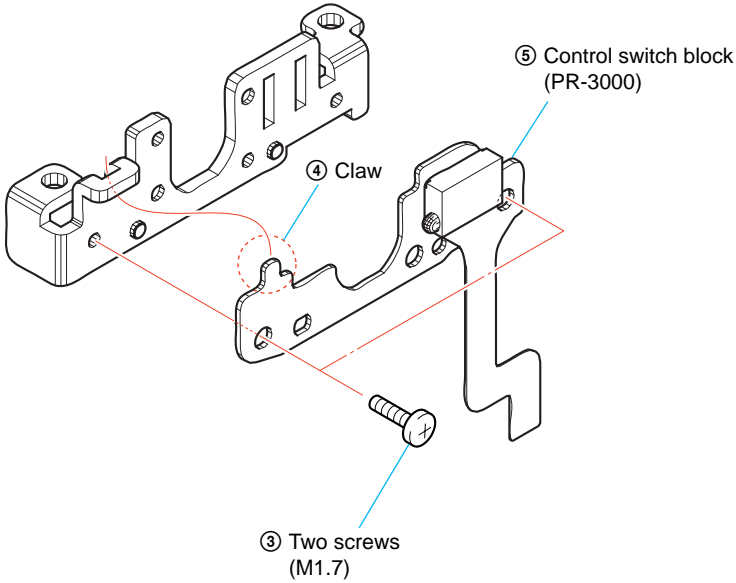
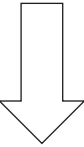
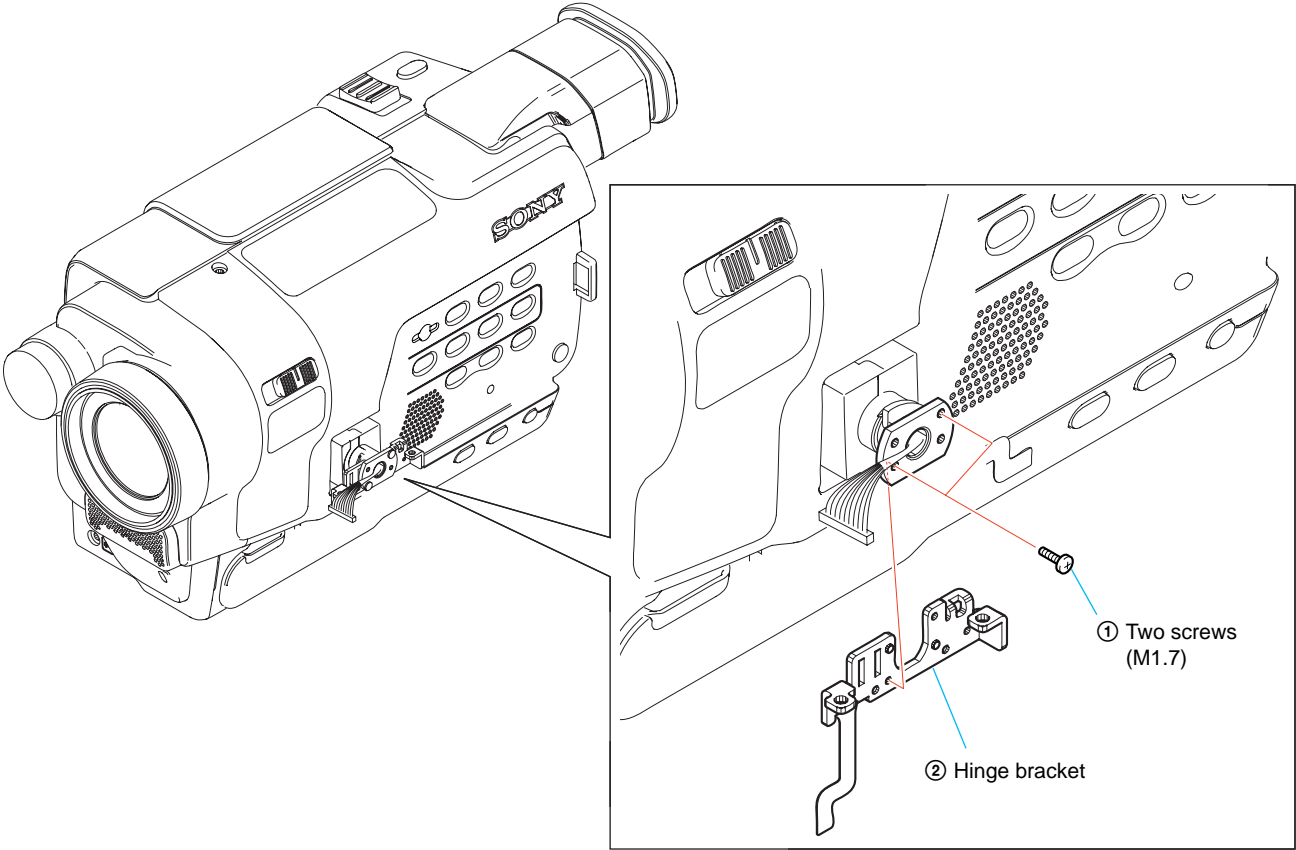
2-3. LCD MODULE



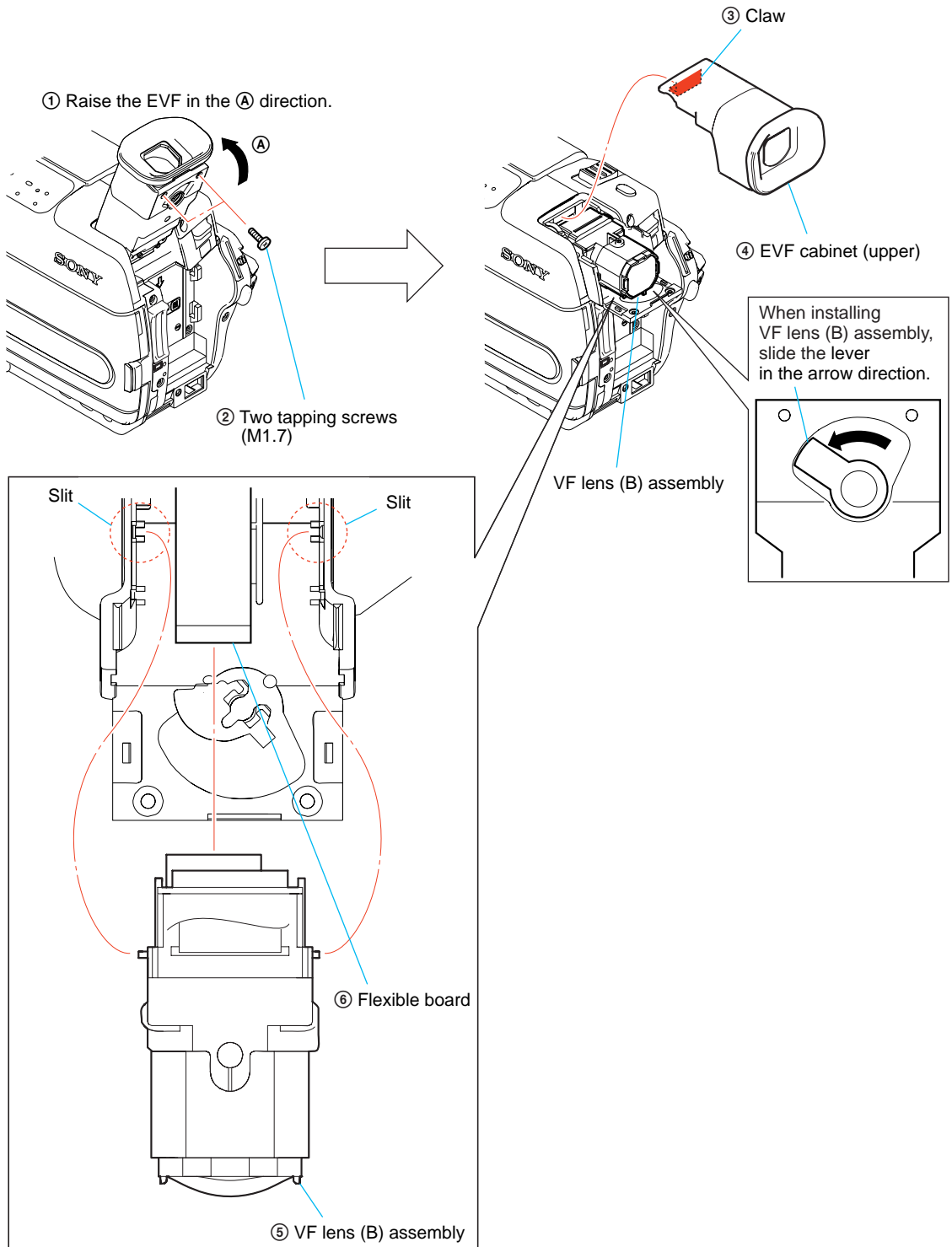
[SERVICE POSITION TO CHECK PD-181 BOARD]



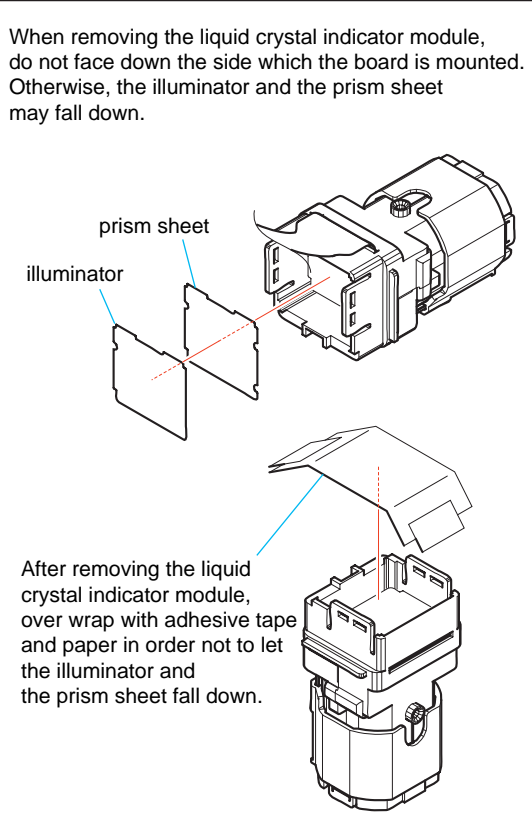
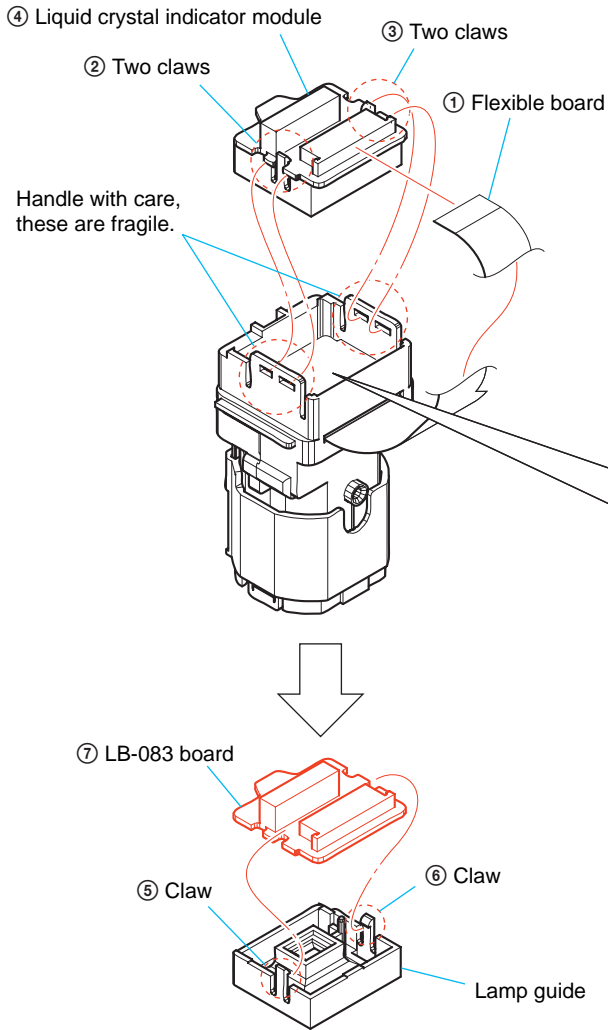
2-4. CONTROL SWITCH BLOCK (PR-3000)



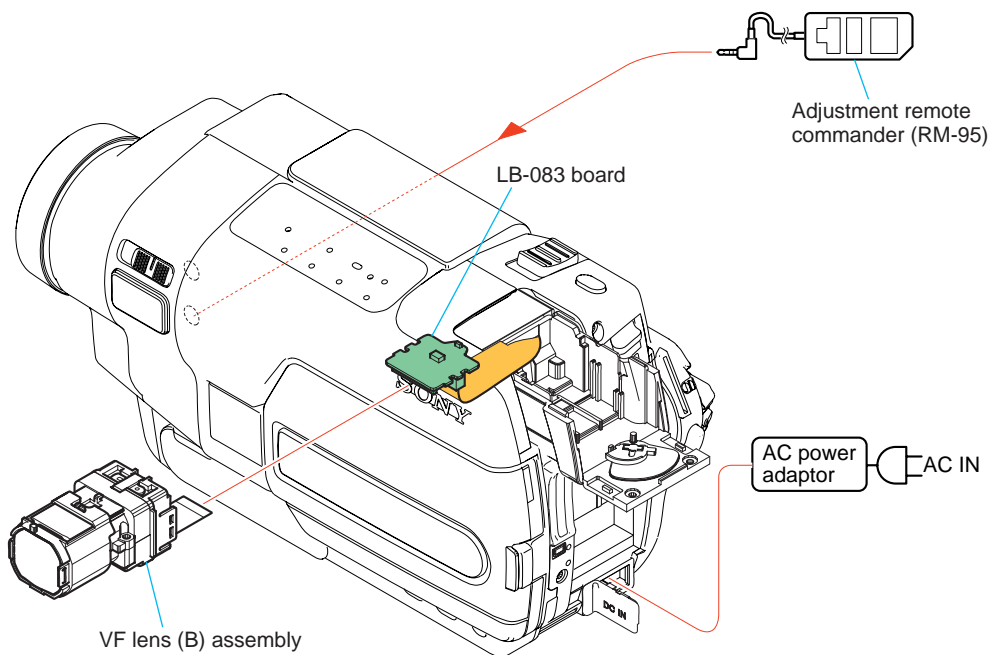
2-5. VF LENS (B) ASSEMBLY



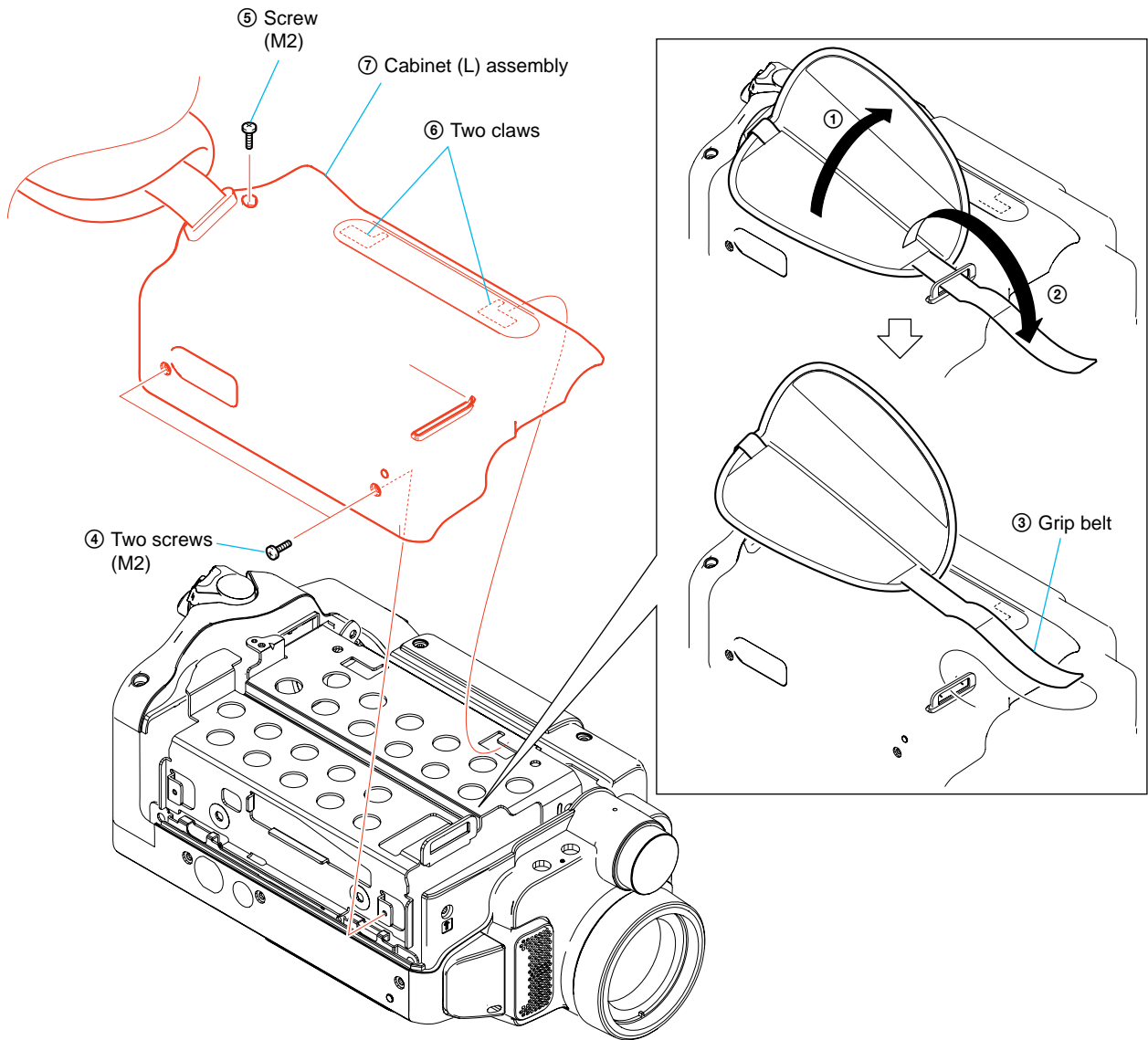
2-6. LB-083 BOARD



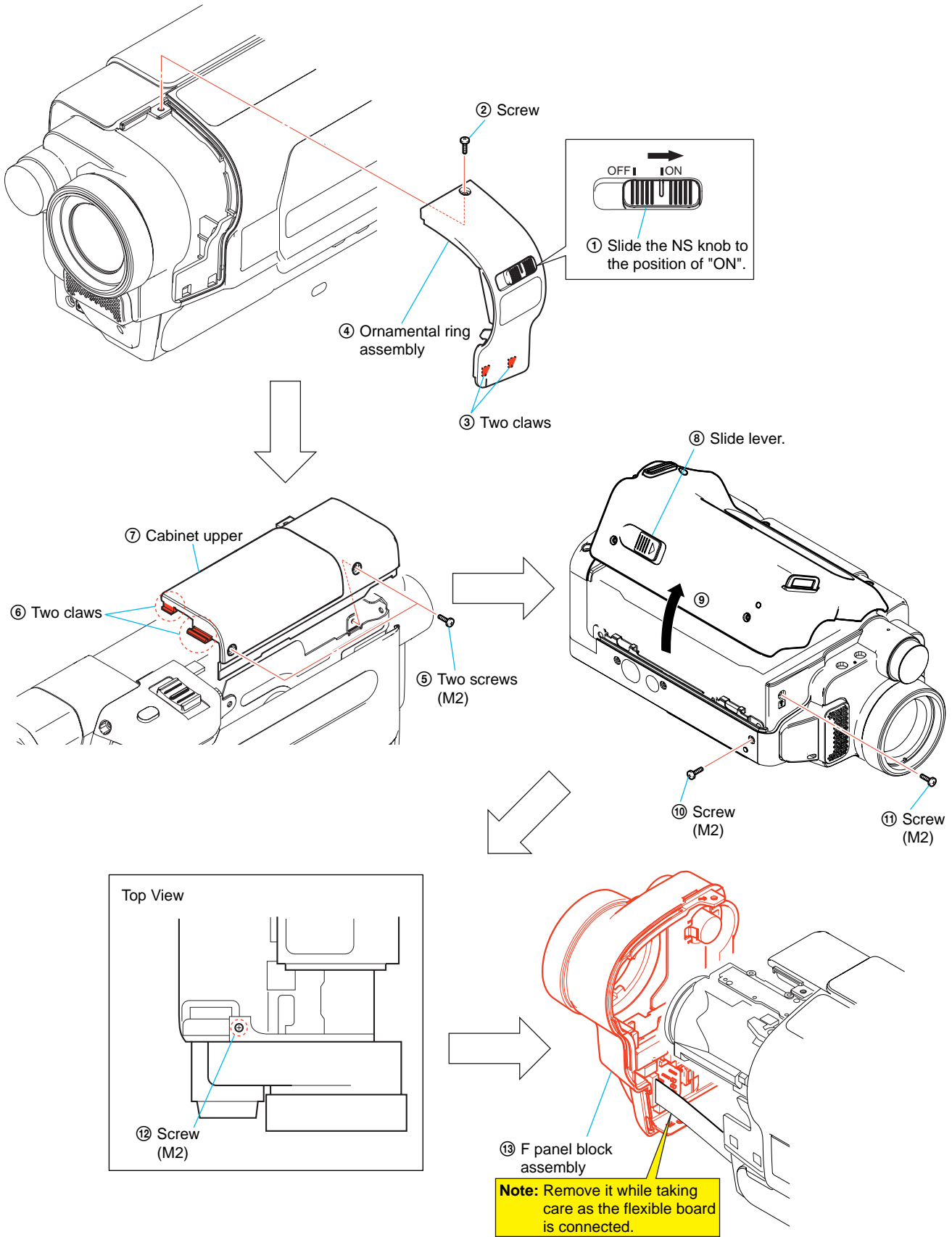
[SERVICE POSITION TO CHECK LB-083 BOARD]



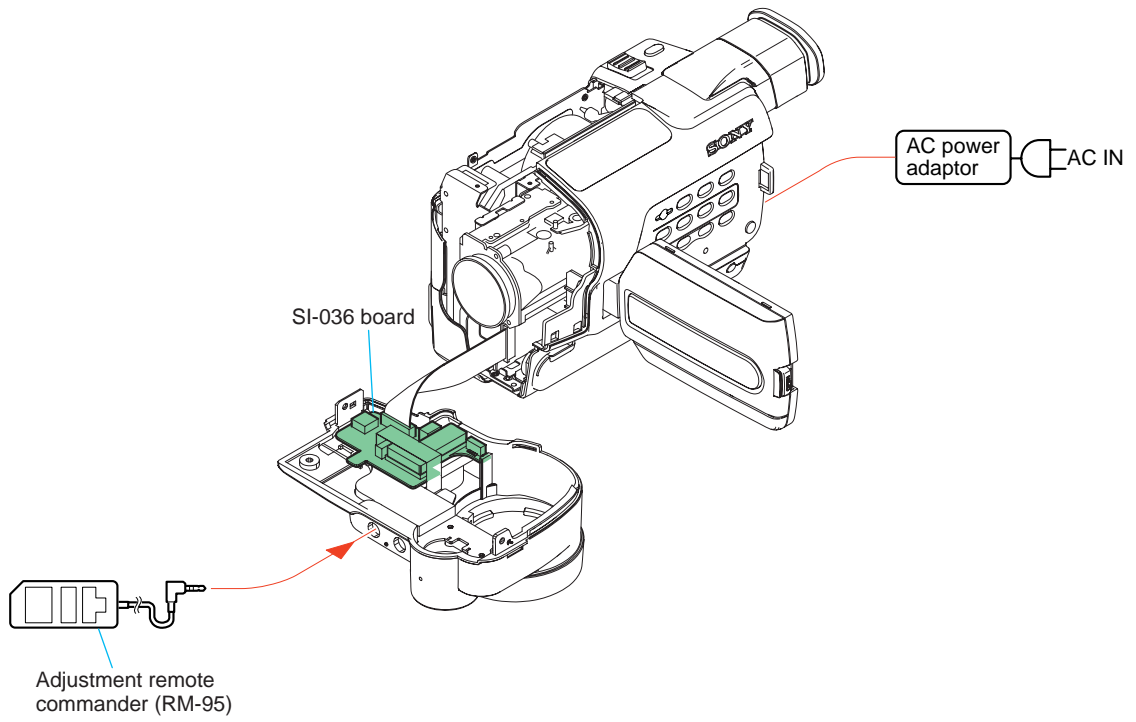
2-7. CABINET (L) ASSEMBLY



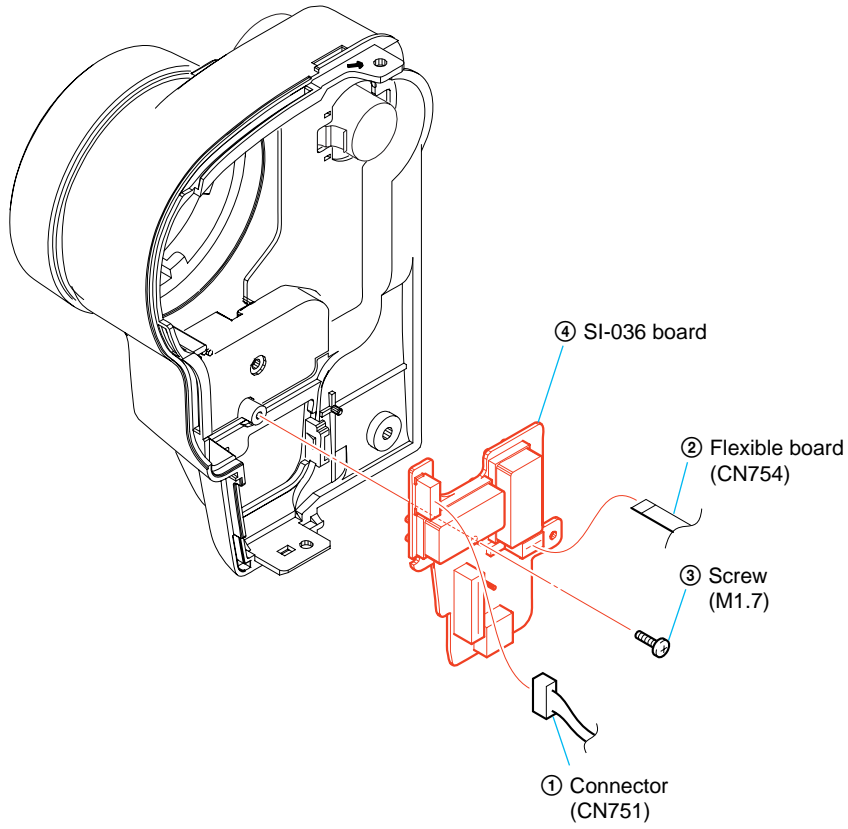
2-8. F PANEL BLOCK ASSEMBLY



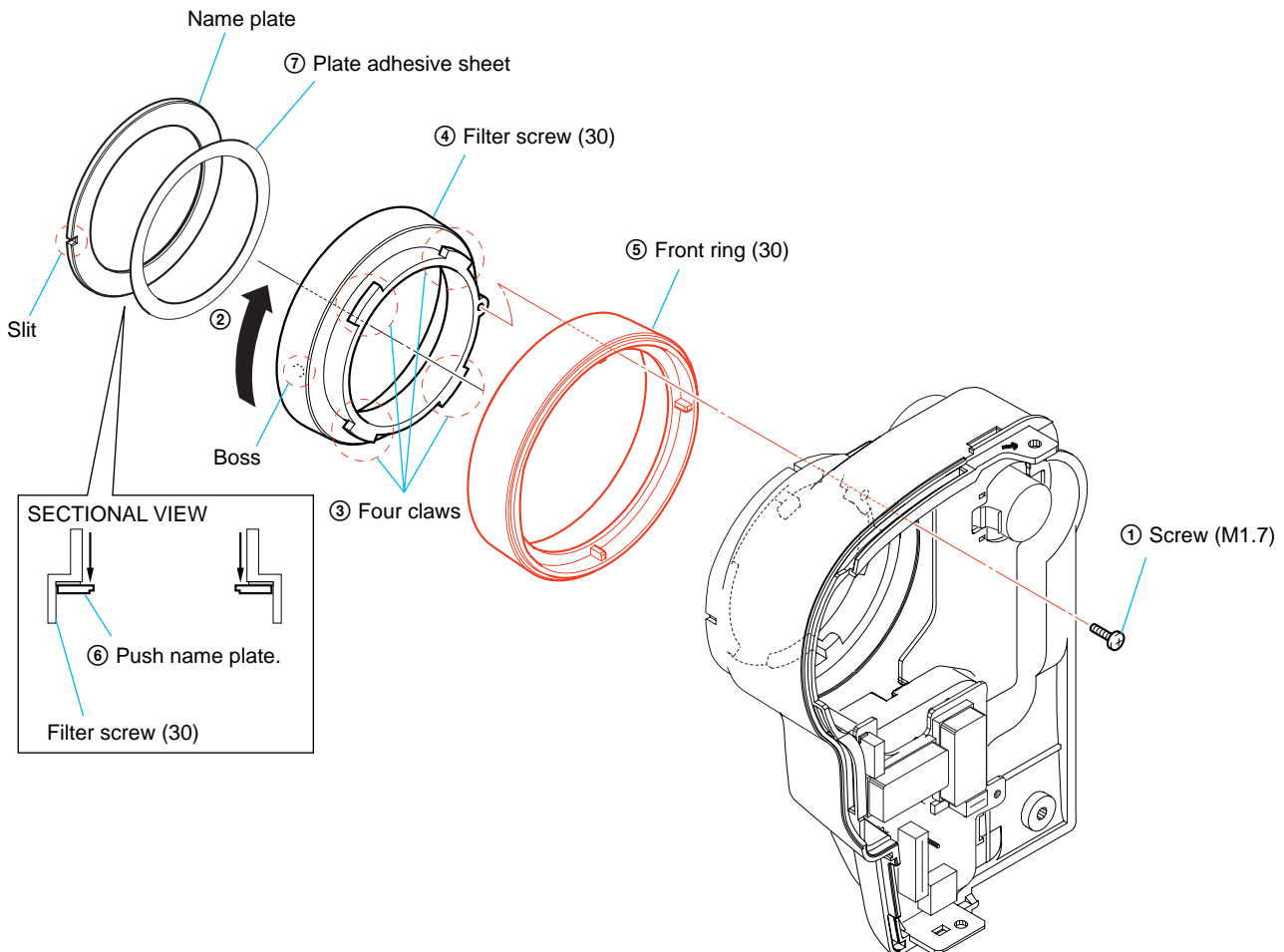
[SERVICE POSITION TO CHECK SI-036 BOARD]



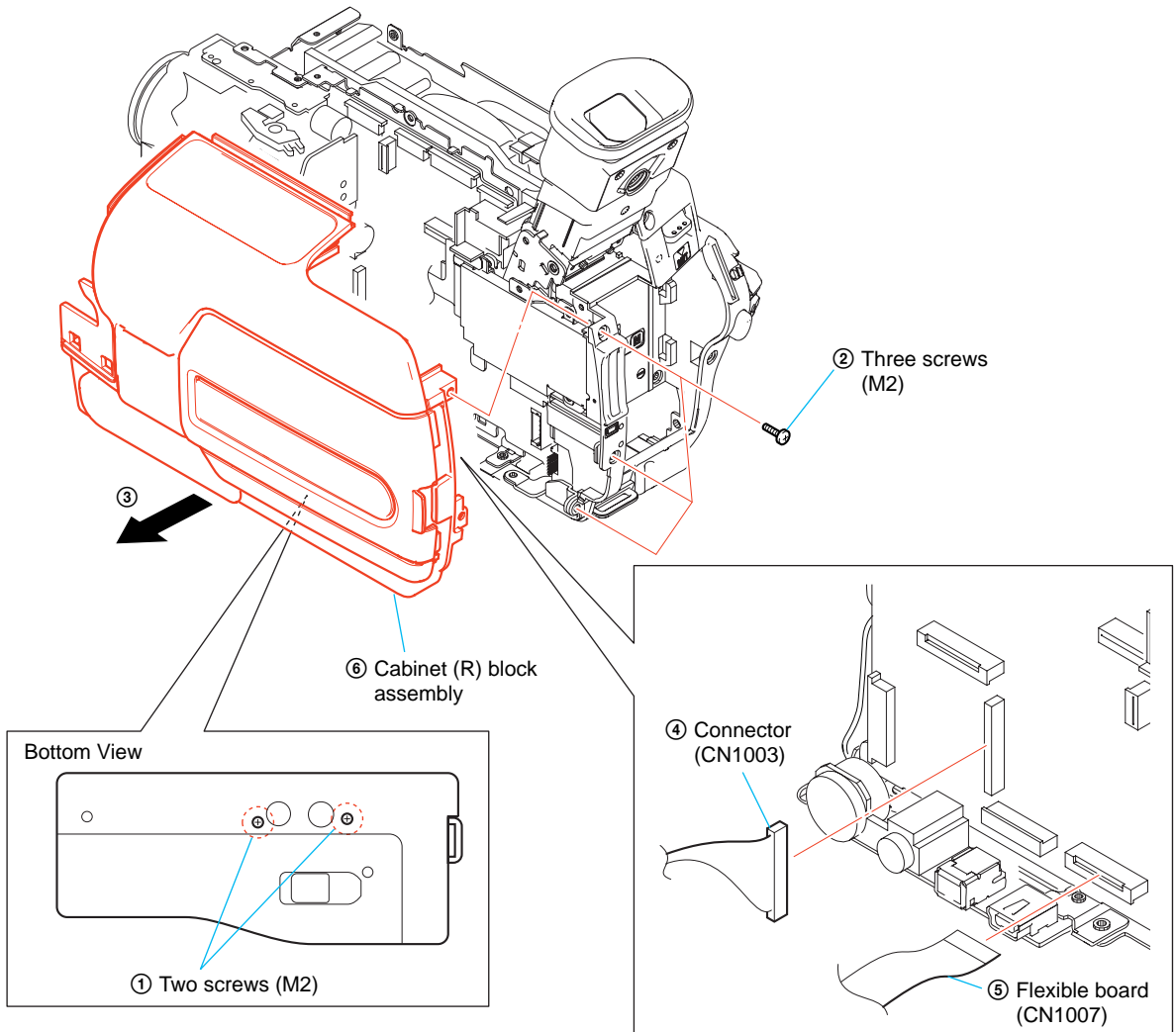
2-9. SI-036 BOARD



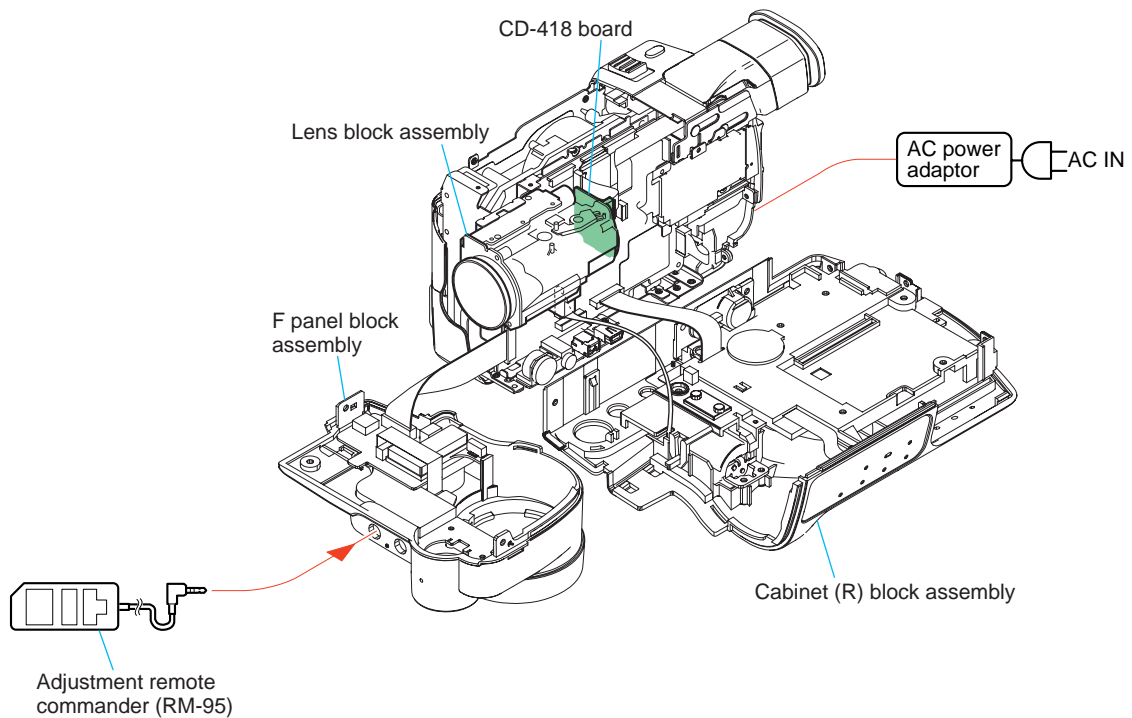
2-10.FRONT RING



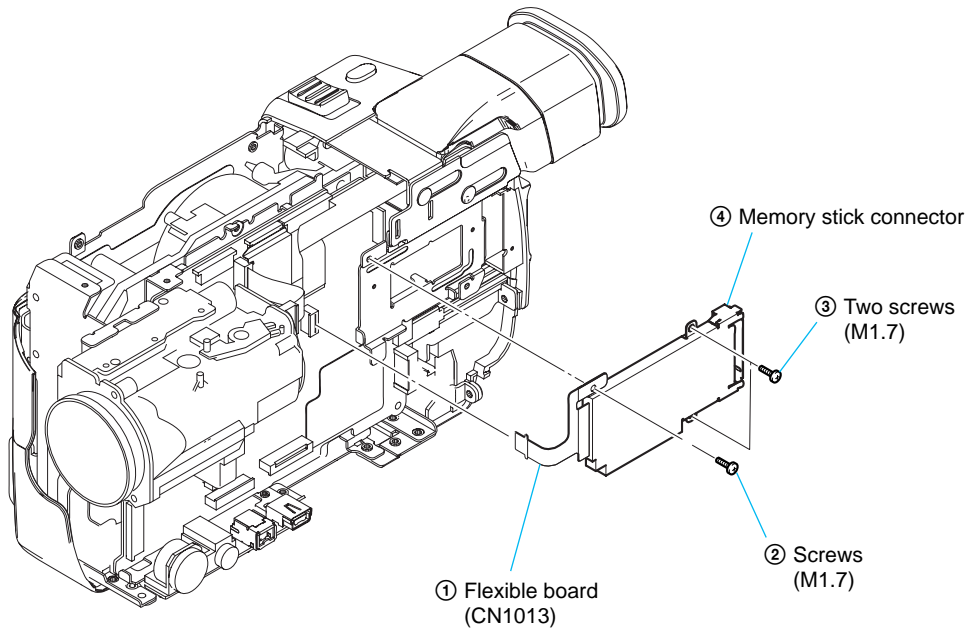
2-11.CABINET (R) BLOCK ASSEMBLY



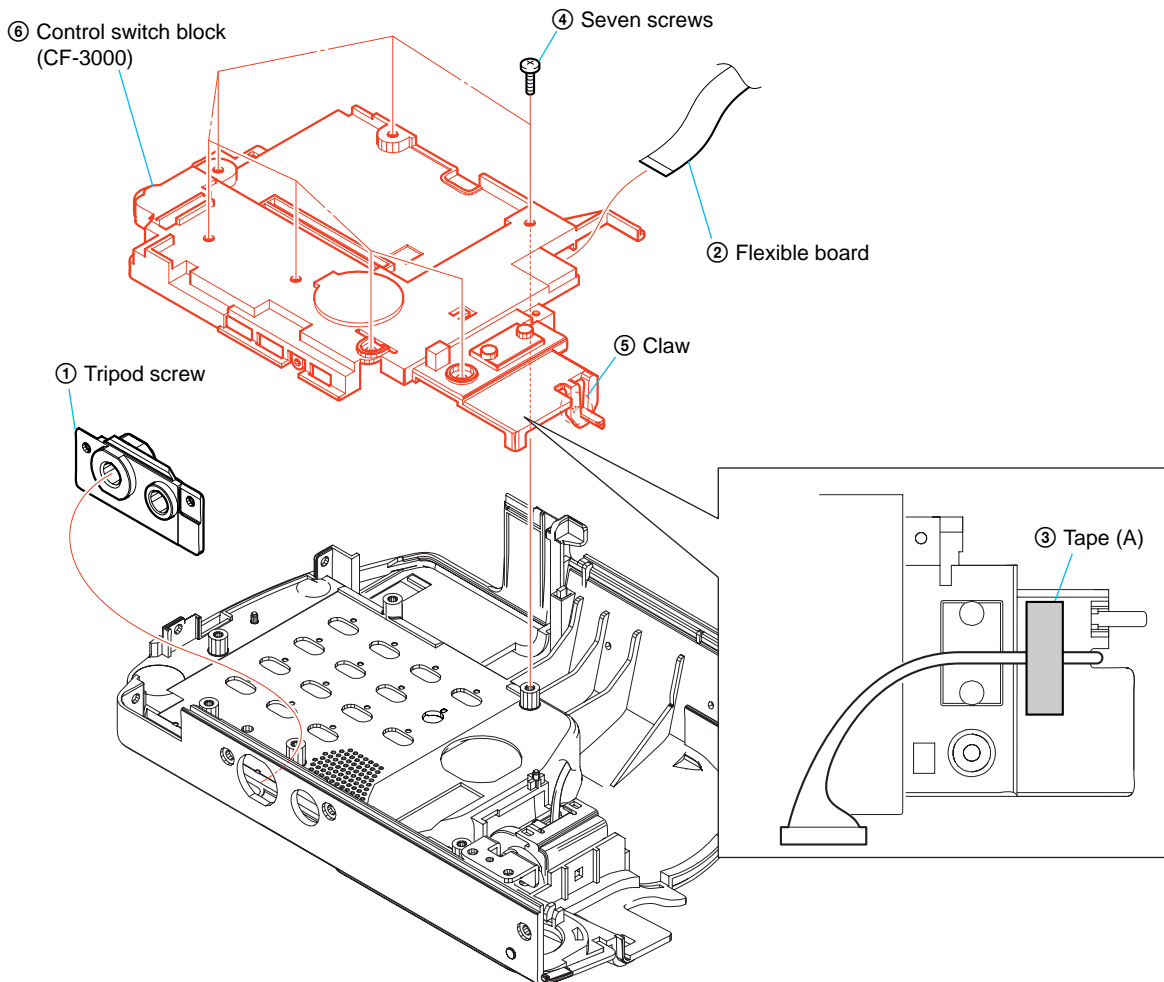
[SERVICE POSITION TO CHECK THE CAMERA SECTION]



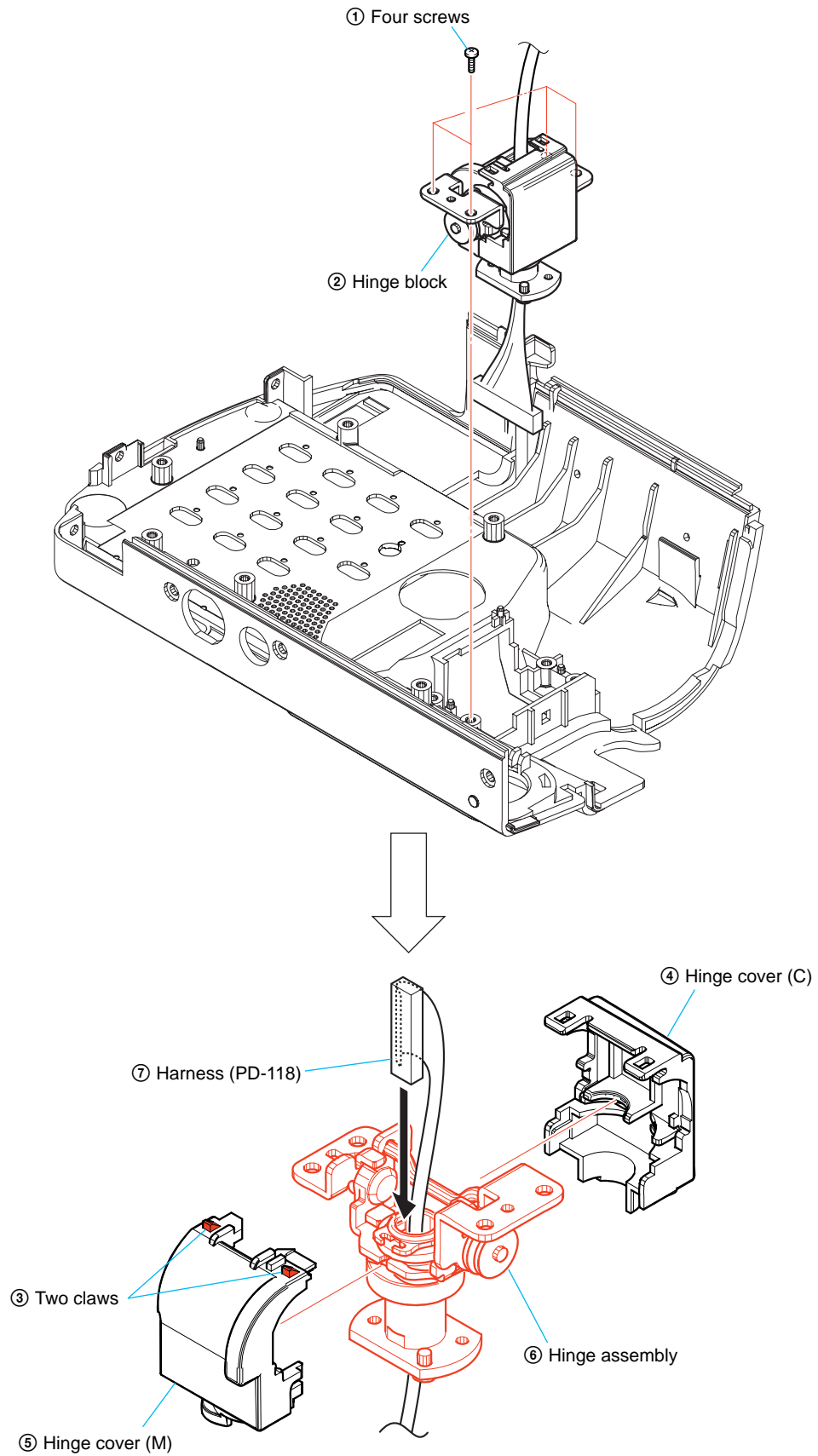
2-12.MEMORY STICK CONNECTOR



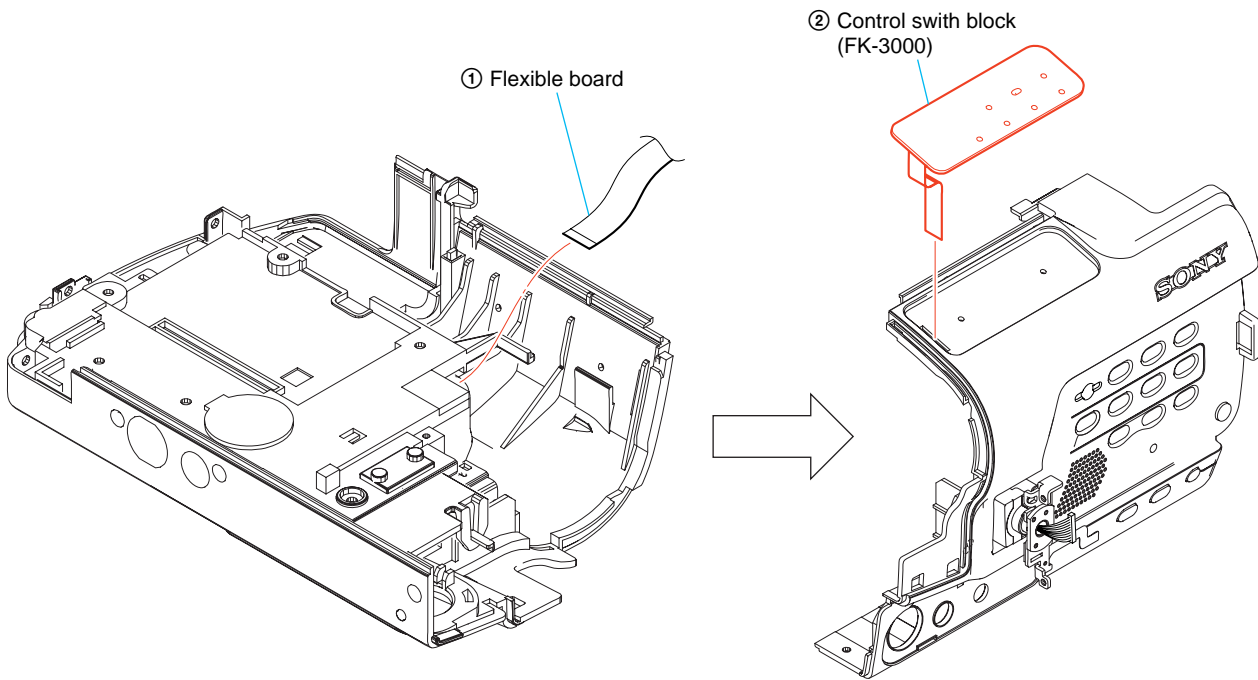
2-13.CONTROL SWITCH BLOCK (CF-3000)



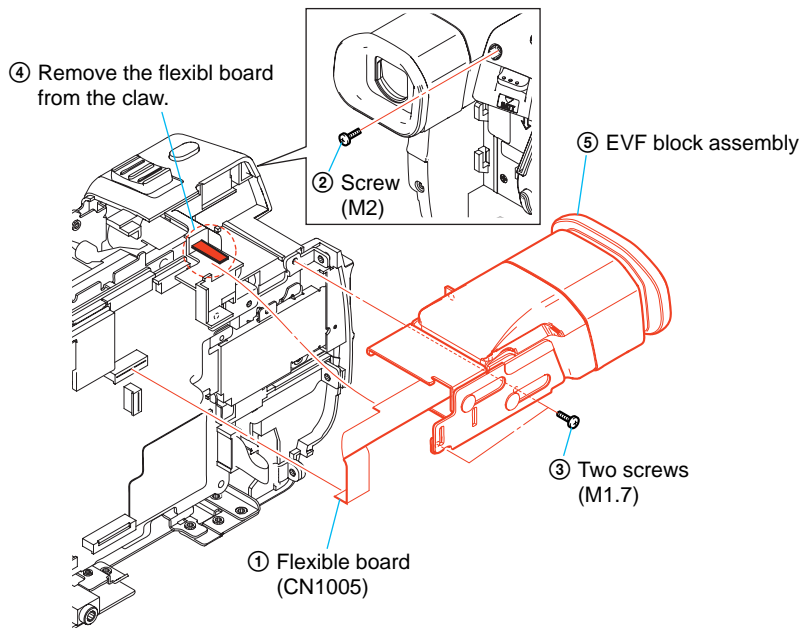
2-14.HINGE ASSEMBLY



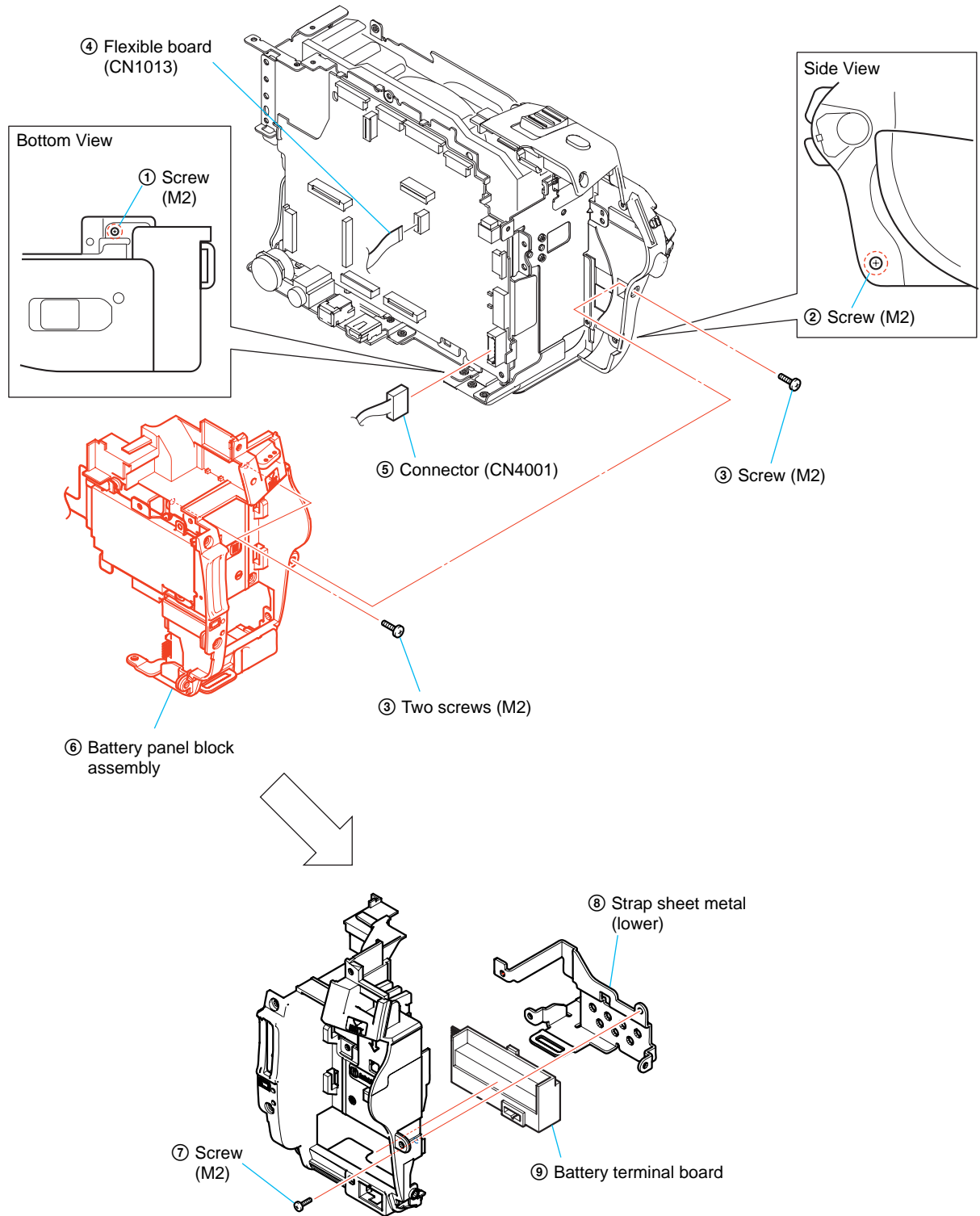
2-15. CONTROL SWITCH BLOCK (FK-3000)



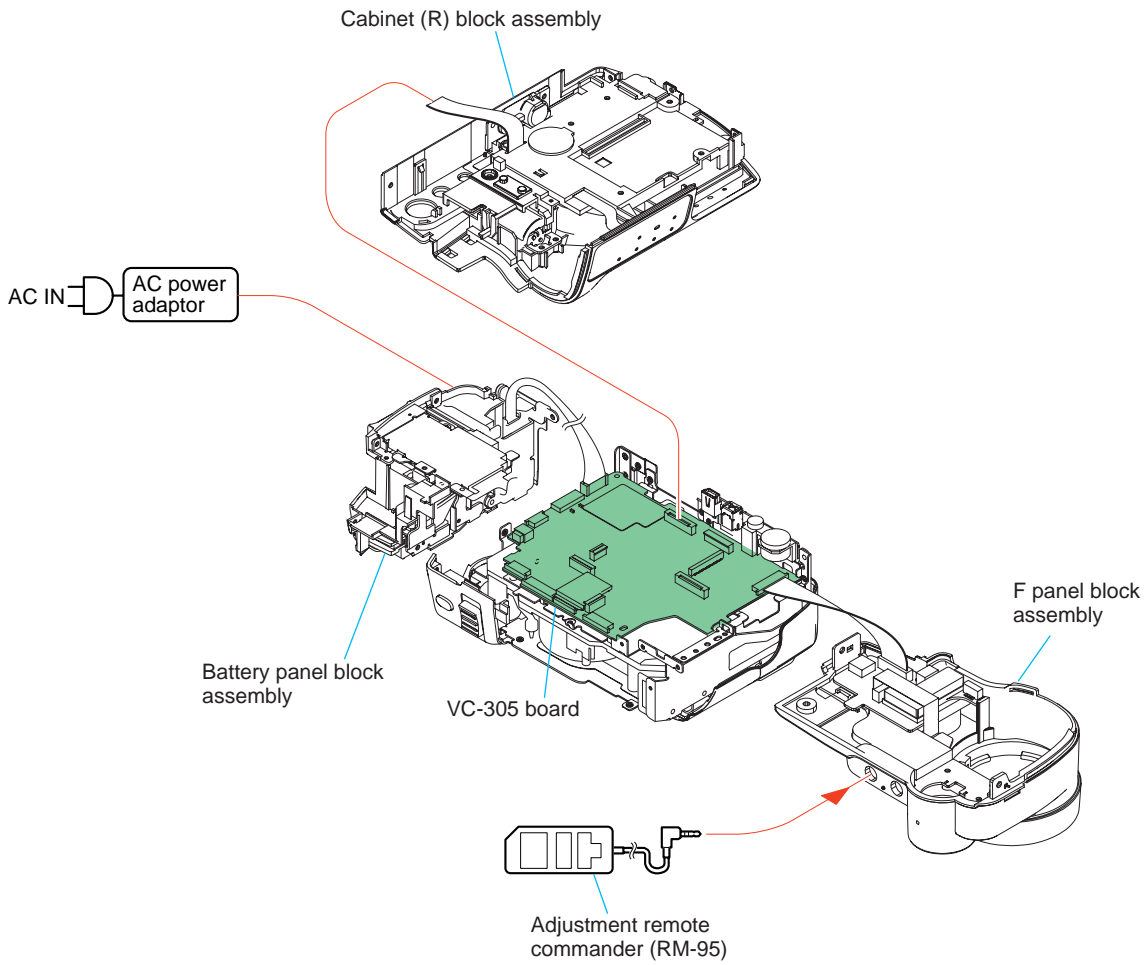
2-16. EVF BLOCK ASSEMBLY



2-17.BATTERY PANEL BLOCK ASSEMBLY

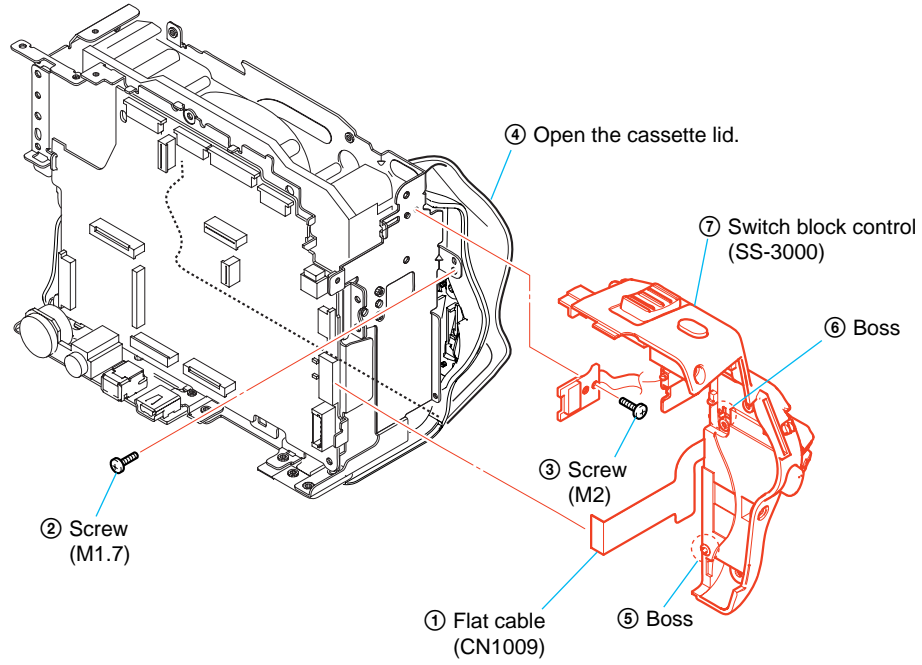


[SERVICE POSITION TO CHECK VC-305 BOARD (SIDE A)]

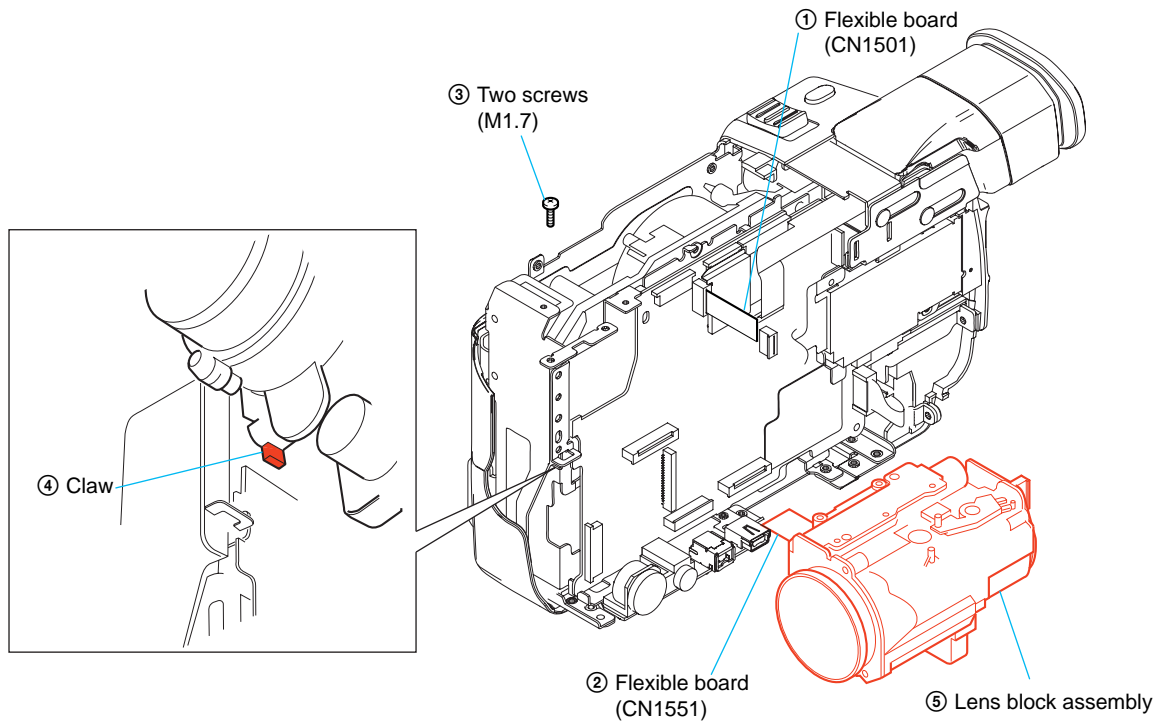


It is possible to check VC-305 board (side A) without removing battery panel block assembly in TRV345E model.

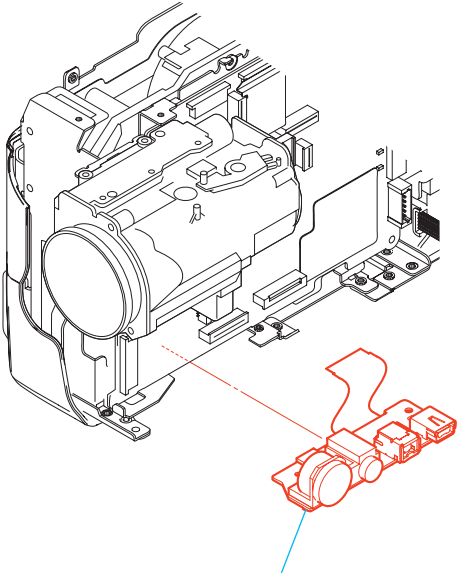
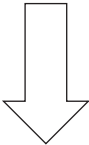
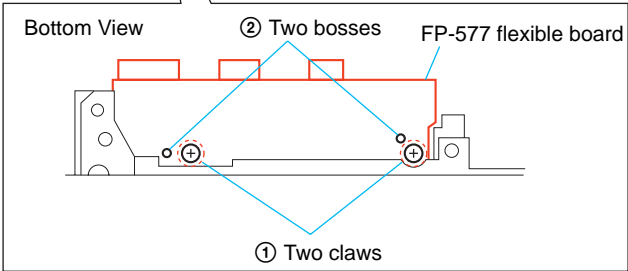
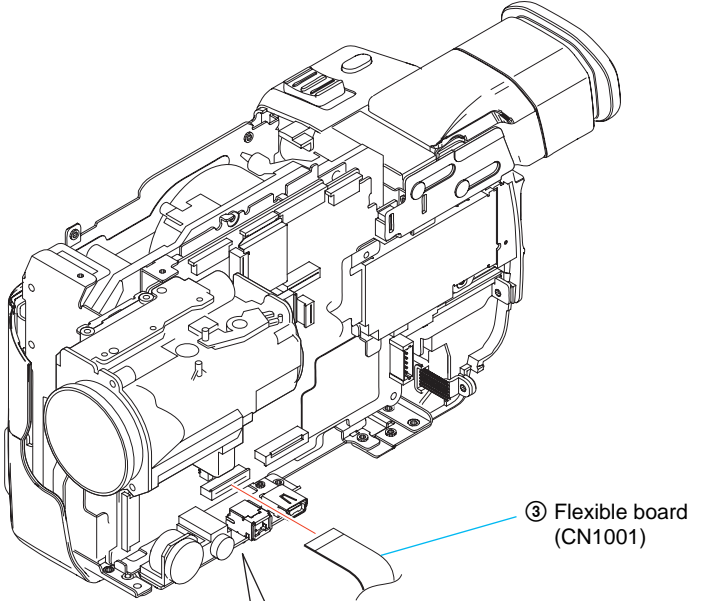
2-18.CONTROL SWITCH BLOCK (SS-3000)



2-19.LENS BLOCK ASSEMBLY

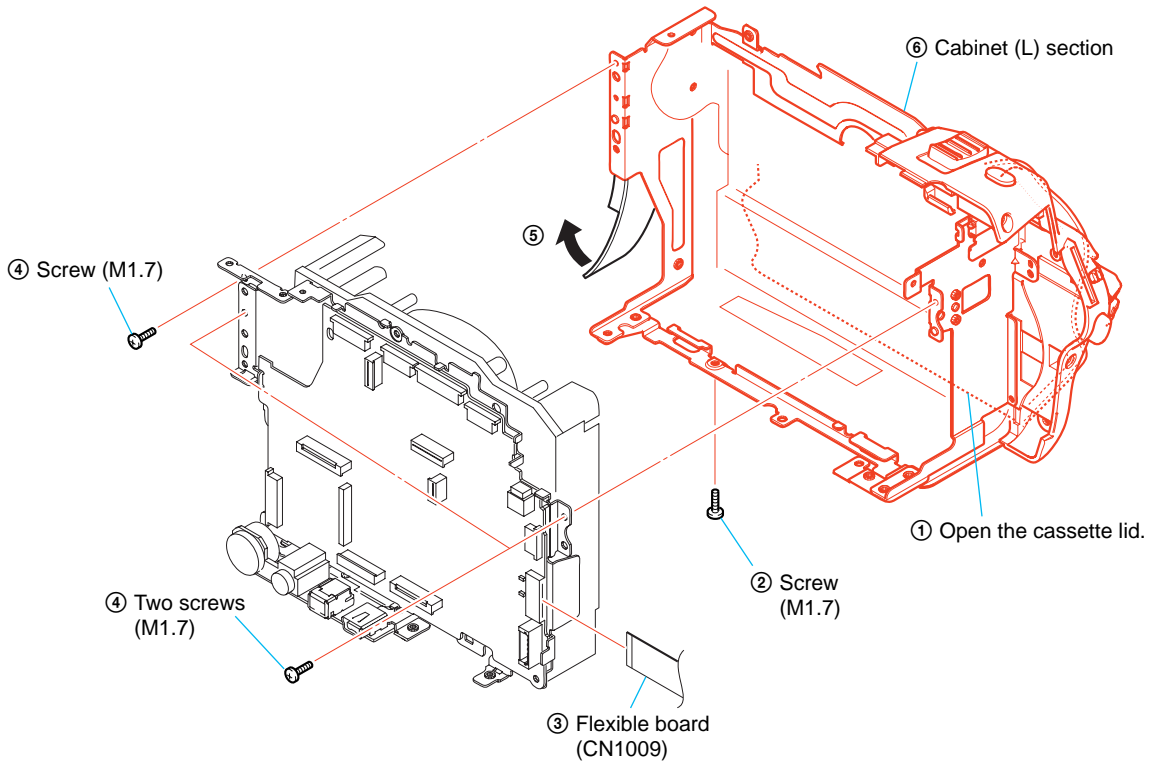


2-20.FP-577 FLEXIBLE BOARD

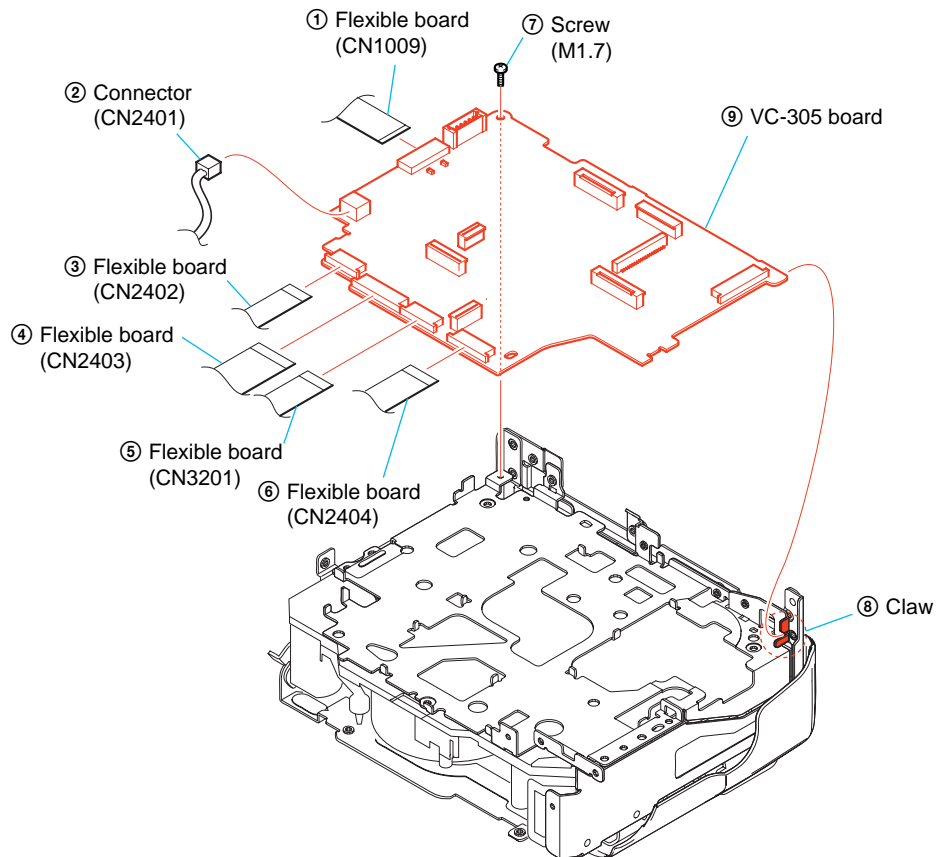


④ FP-577 flexible board

2-21.CABINET (L) SECTION



2-22.VC-305 BOARD



[SERVICE POSITION TO CHECK VC-305 BOARD (SIDE B)]

Connection to Check VC-305 Board (Side B)

To check VC-305 board (side B), set the camera or VTR to the "Forced camera power ON" mode. Operate the camera functions of the zoom and focus, the VTR section using the adjustment remote commander (with the HOLD switch set in the OFF position).

Setting the "Forced Camera Power ON" mode

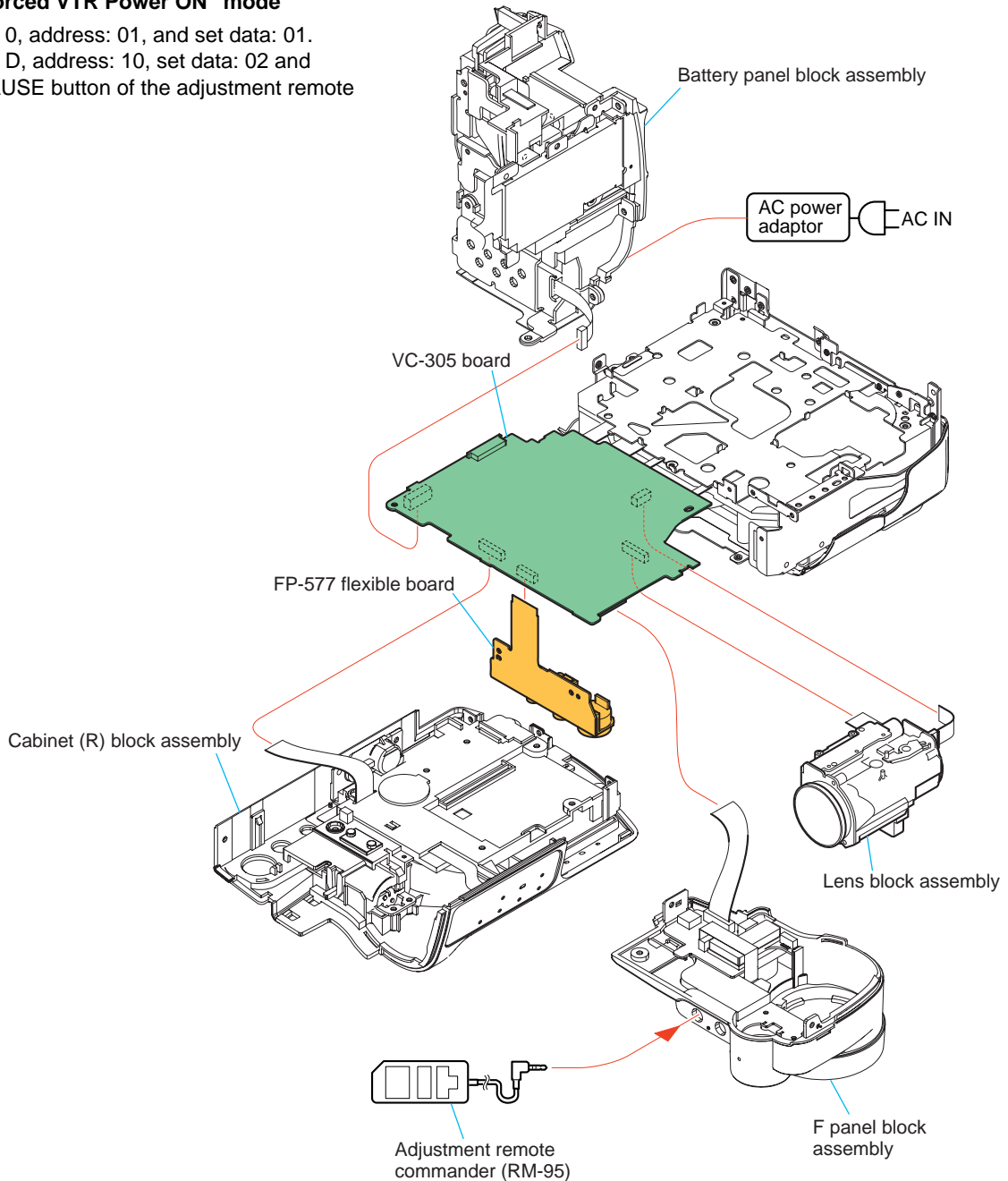
- 1) Select page: O, address: 01, and set data: 01.
- 2) Select page: D, address: 10, set data: 01 and press the PAUSE button of the adjustment remote commander.

Exiting the "Forced Power ON" mode

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

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.



[SERVICE POSITION TO CHECK THE MECHANISM DECK]**Connection to Check the Mechanism deck**

To check the mechanism deck, set the VTR to the "Forced VTR power ON" mode. (Or, connect the control switch block (SS-3000) to the CN711 of VC-305 board and set the power switch to the "PLAYER" position.)

Operate the VTR function using the adjustment remote commander (with the HOLD switch set in the OFF position).

Setting the "Forced VTR Power ON" mode

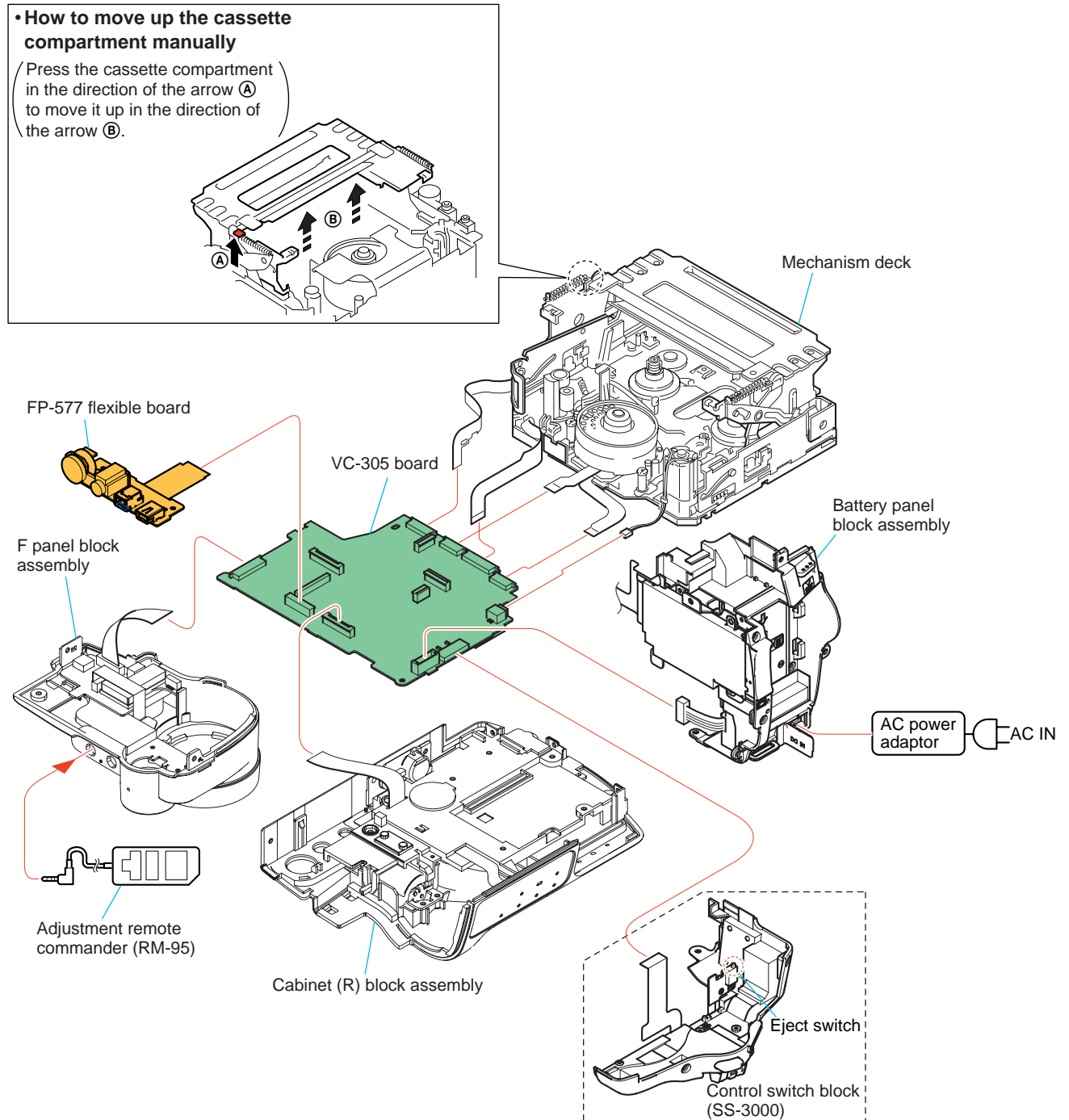
- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: D, address: 10, set data: 02 and press the PAUSE button of the adjustment remote commander.

Exiting the "Forced VTR Power ON" mode

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

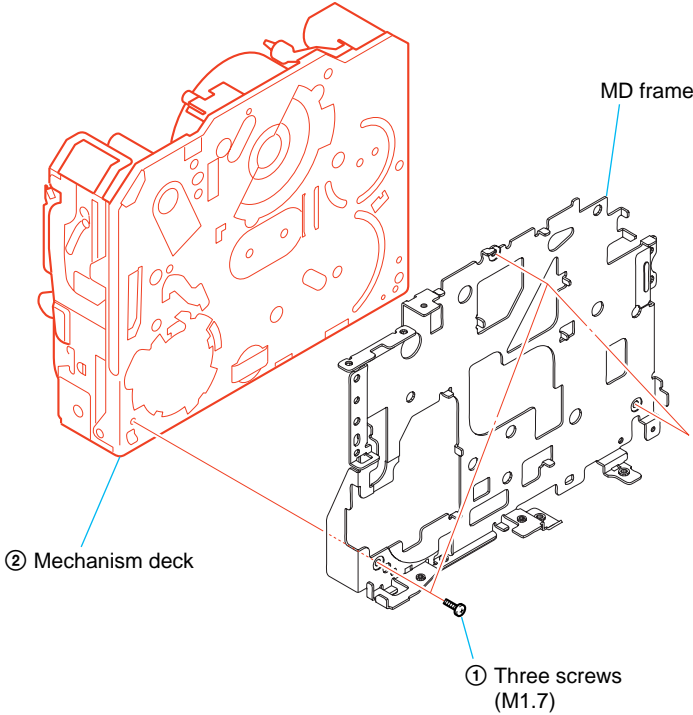
•How to move up the cassette compartment manually

(Press the cassette compartment in the direction of the arrow (A) to move it up in the direction of the arrow (B).



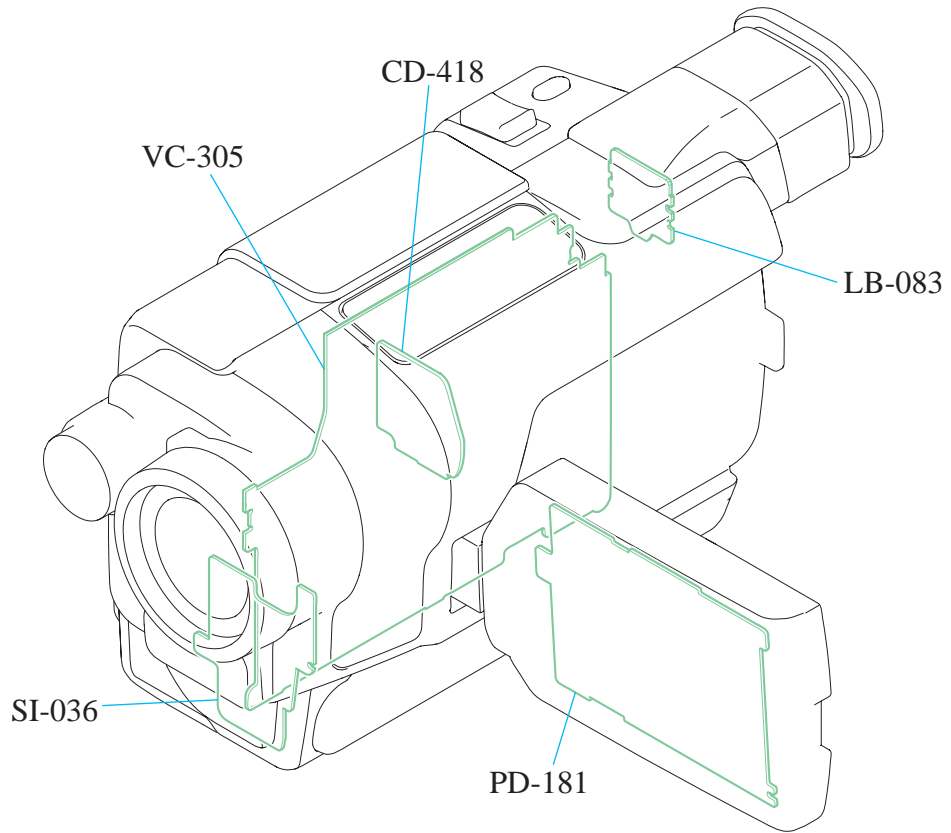
When exiting the "Forced VTR Power ON" mode, connect the control switch block (SS-3000) to the CN711 of VC-305 board. Or, when ejecting the cassette, connect the control switch block (SS-3000) to the CN711 of VC-305 board, and press the EJECT switch.

2-23.MECHANISM DECK BLOCK





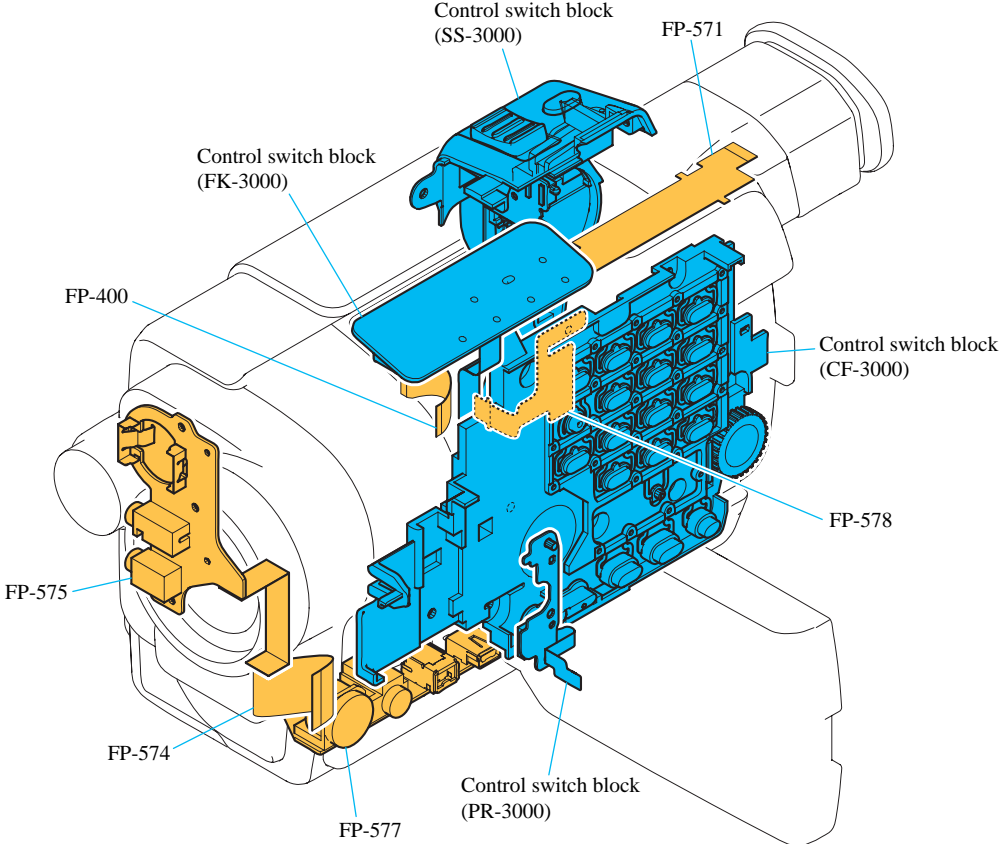
2-24. CIRCUIT BOARDS LOCATION



Board Name	Function
CD-418	CCD IMAGER
LB-083	EVF BACKLIGHT
PD-181	RGB DRIVE, TIMING GENERATOR, BACKLIGHT DRIVE
SI-036	STEADYSHOT, MIC
VC-305	A/D CONVERTER, TIMING GENERATOR, VIDEO/AUDIO DSP, LENS DRIVE, Hi8/Std8 VTR PROCESS, LENS CONTROL, VIDEO IN/OUT, DV SIGNAL PROCESS, REC/PB AMP, DV INTERFACE, Hi8/Std8 PB AMP, USB/MODE CONTROL, MS INTERFACE, HI CONTROL, CAMERA/MECHA CONTROL, SERVO, EVF DRIVE, AUDIO, MIC AMP, DC CONTROL



2-25.FLEXIBLE BOARDS LOCATION

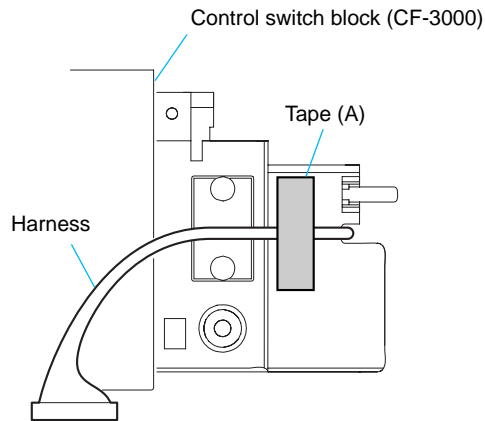




HELP

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

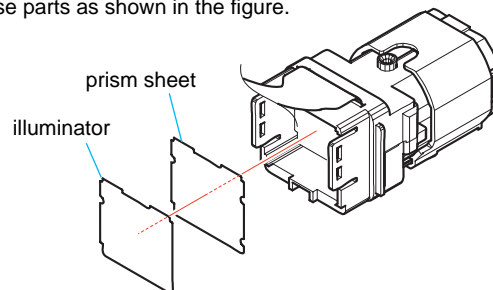
CABINET (R) BLOCK ASSEMBLY



When installing Control switch block (CF-3000), set harness and tape (A) as shown in the figure.

PRISM SHEET AND ILLUMINATOR

When installing prism sheet and illuminator, set these parts as shown in the figure.





3. BLOCK DIAGRAMS

Link

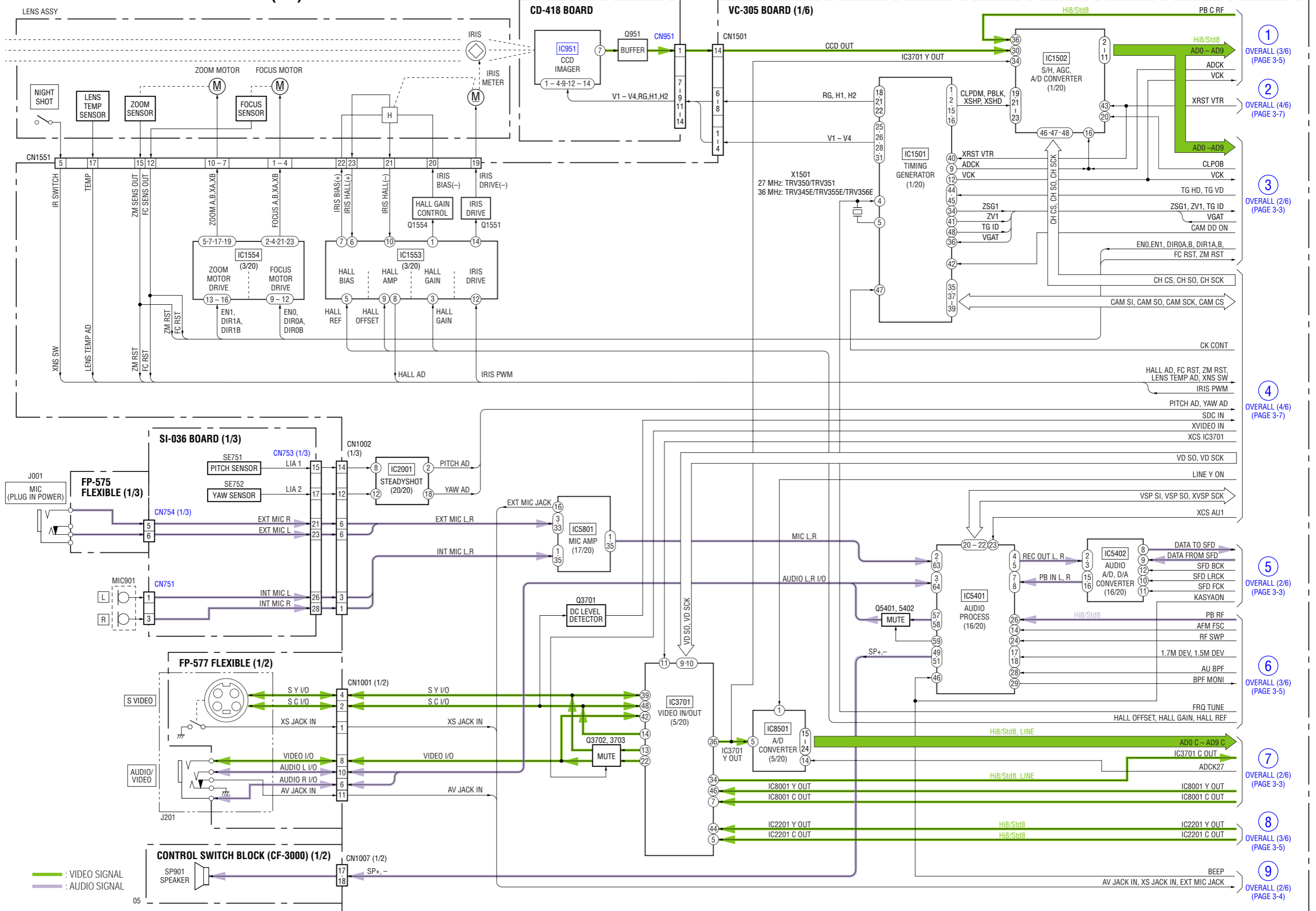
OVERALL BLOCK DIAGRAM (1/6)	OVERALL BLOCK DIAGRAM (6/6)
OVERALL BLOCK DIAGRAM (2/6)	POWER BLOCK DIAGRAM (1/3)
OVERALL BLOCK DIAGRAM (3/6)	POWER BLOCK DIAGRAM (2/3)
OVERALL BLOCK DIAGRAM (4/6)	POWER BLOCK DIAGRAM (3/3)
OVERALL BLOCK DIAGRAM (5/6)	



**SECTION 3
BLOCK DIAGRAMS**

3. BLOCK DIAGRAMS

3-1. OVERALL BLOCK DIAGRAM (1/6) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.

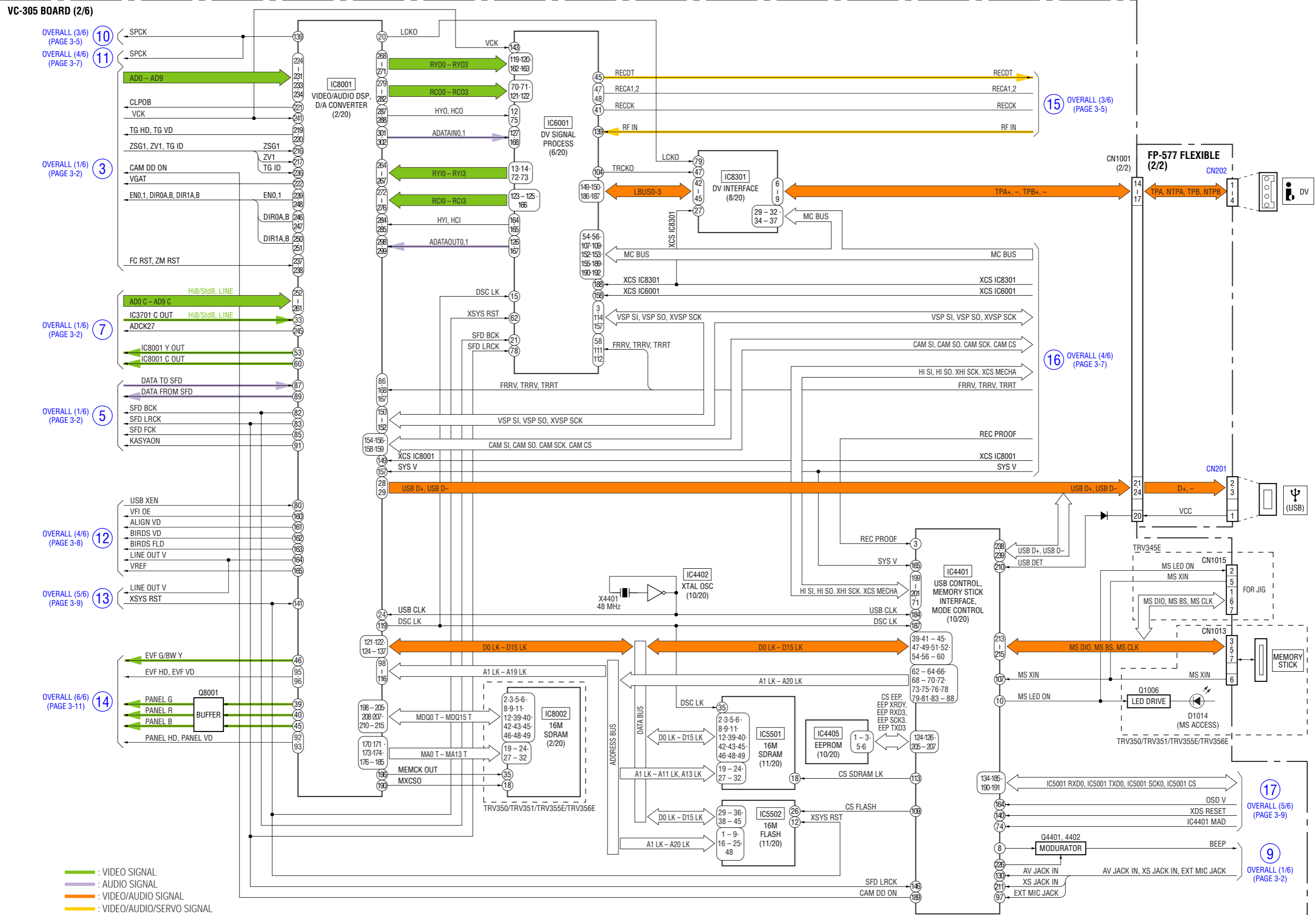


- ① OVERALL (3/6) (PAGE 3-5)
- ② OVERALL (4/6) (PAGE 3-7)
- ③ OVERALL (2/6) (PAGE 3-3)
- ④ OVERALL (4/6) (PAGE 3-7)
- ⑤ OVERALL (2/6) (PAGE 3-3)
- ⑥ OVERALL (3/6) (PAGE 3-5)
- ⑦ OVERALL (2/6) (PAGE 3-3)
- ⑧ OVERALL (3/6) (PAGE 3-5)
- ⑨ OVERALL (2/6) (PAGE 3-4)

COVER

3. BLOCK DIAGRAMS

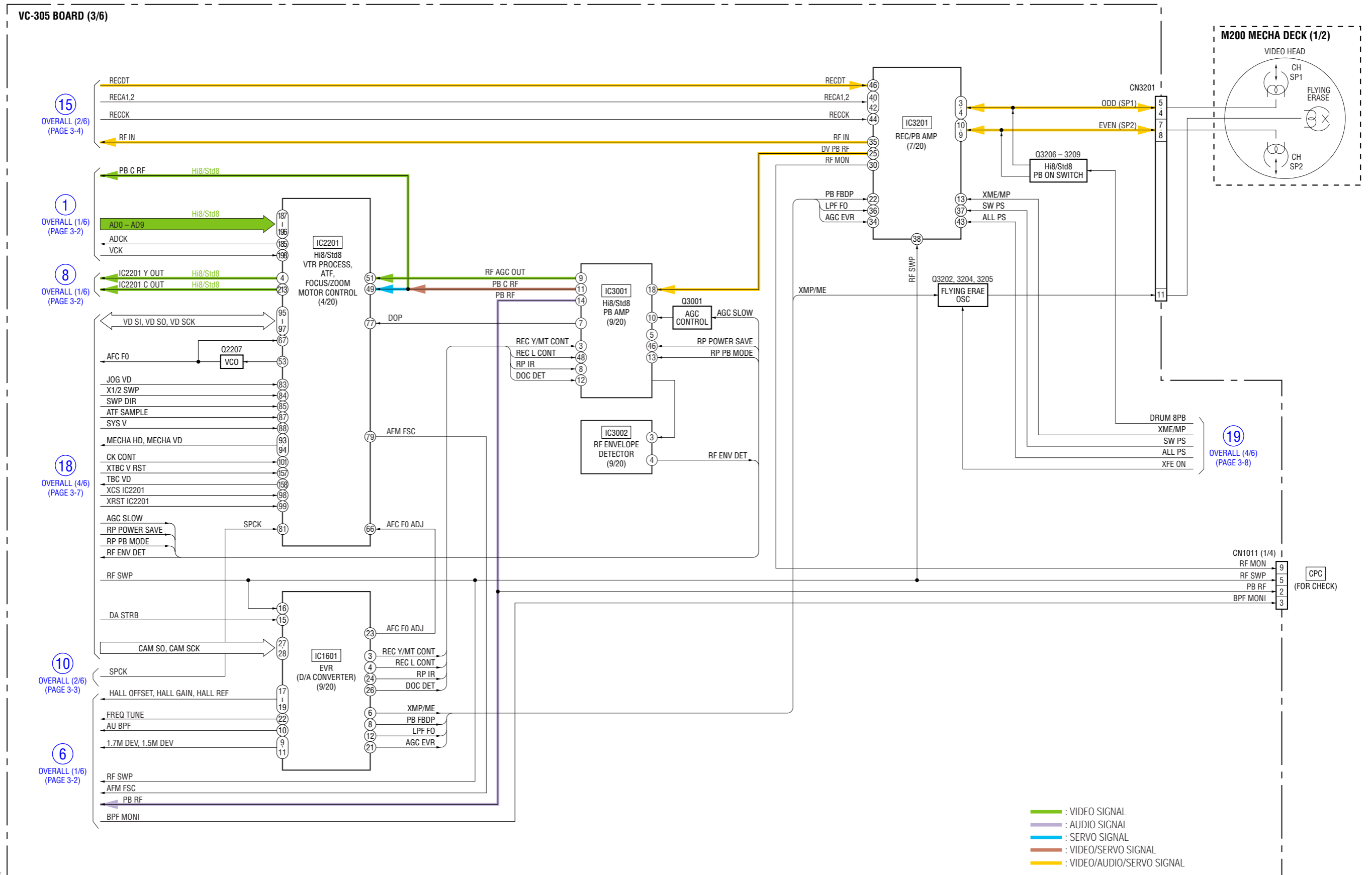
3-2. OVERALL BLOCK DIAGRAM (2/6) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.





3. BLOCK DIAGRAMS

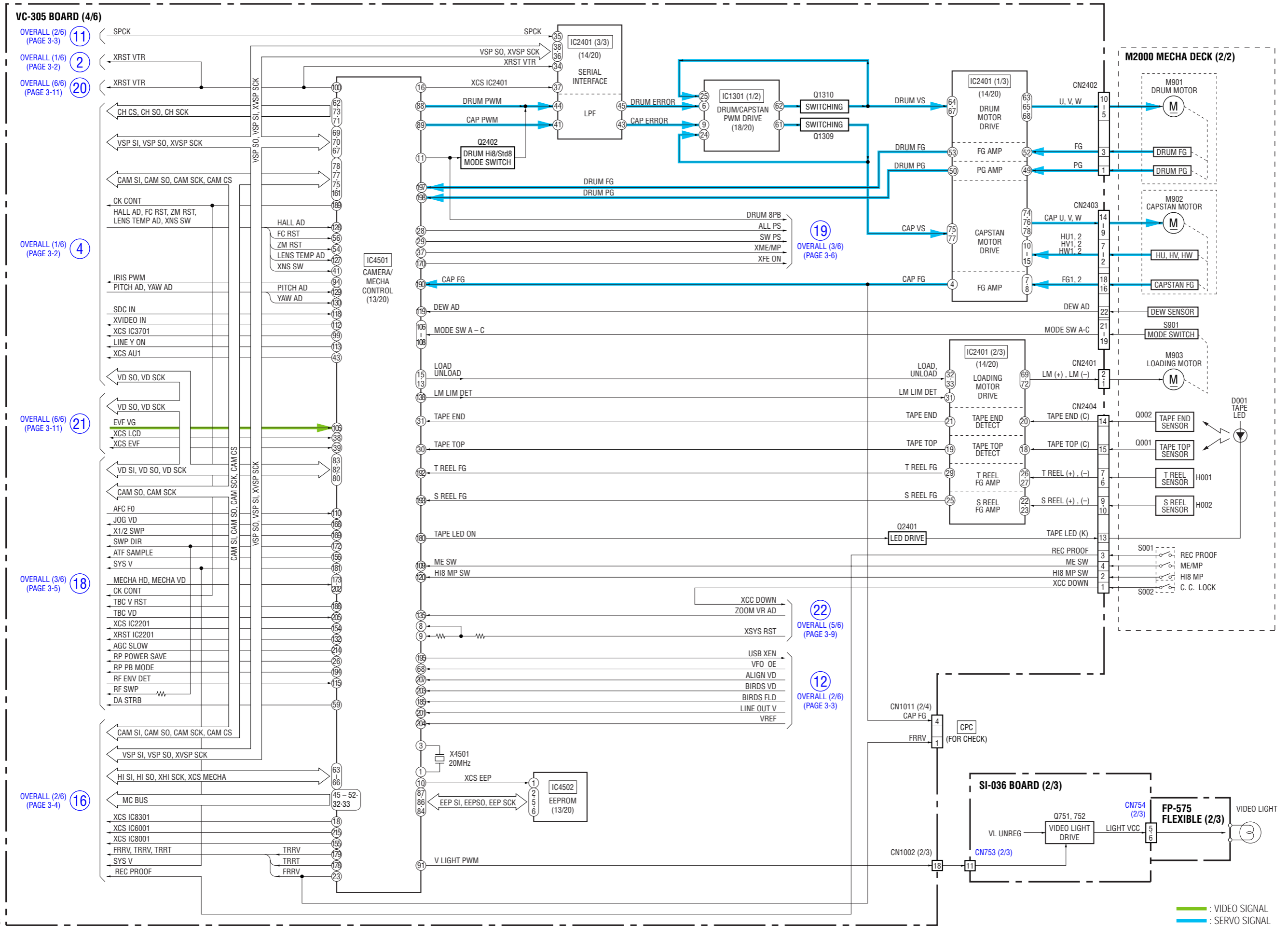
3-3. OVERALL BLOCK DIAGRAM (3/6) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.



COVER

3. BLOCK DIAGRAMS

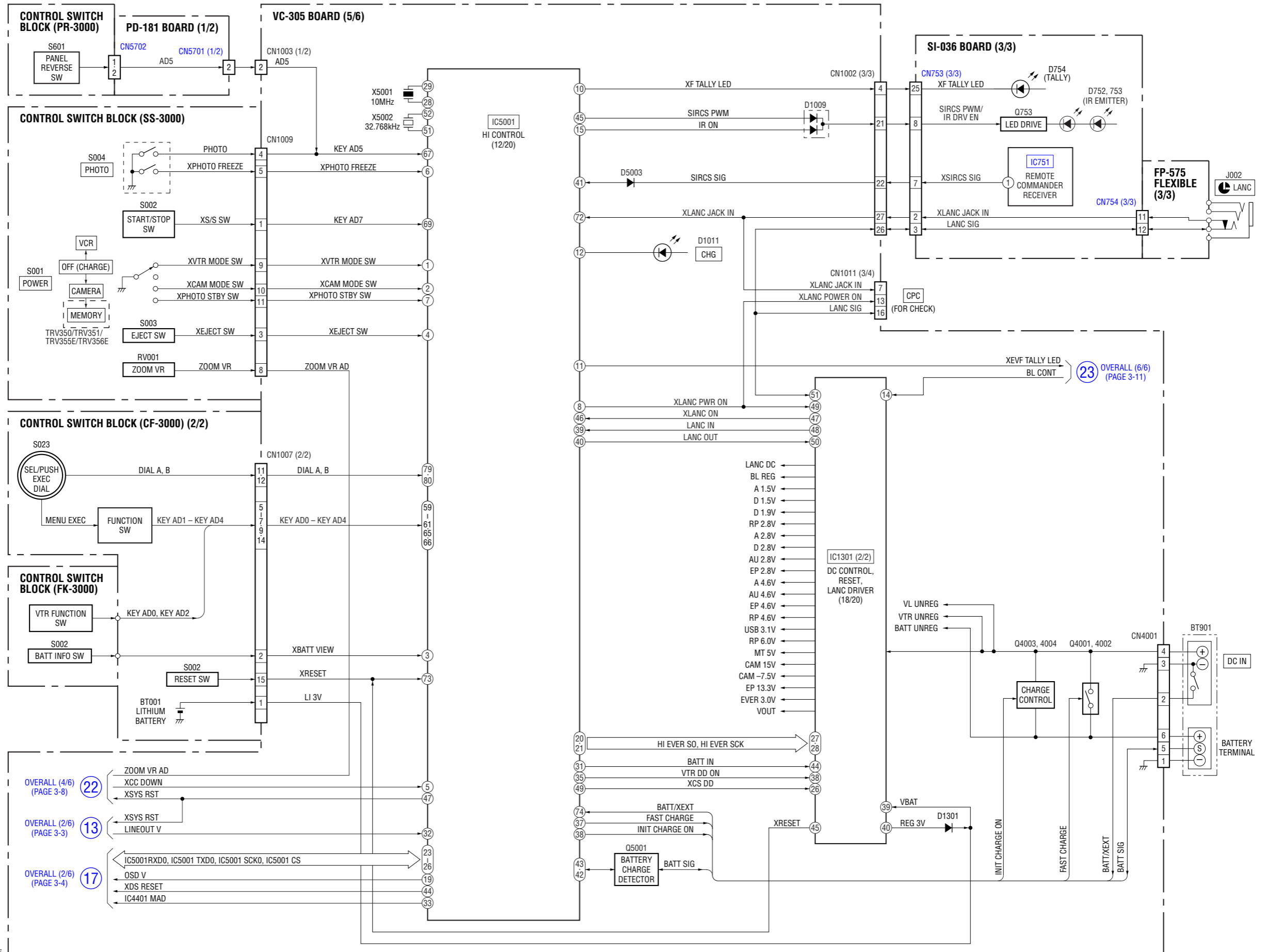
3-4. OVERALL BLOCK DIAGRAM (4/6) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.





3. BLOCK DIAGRAMS

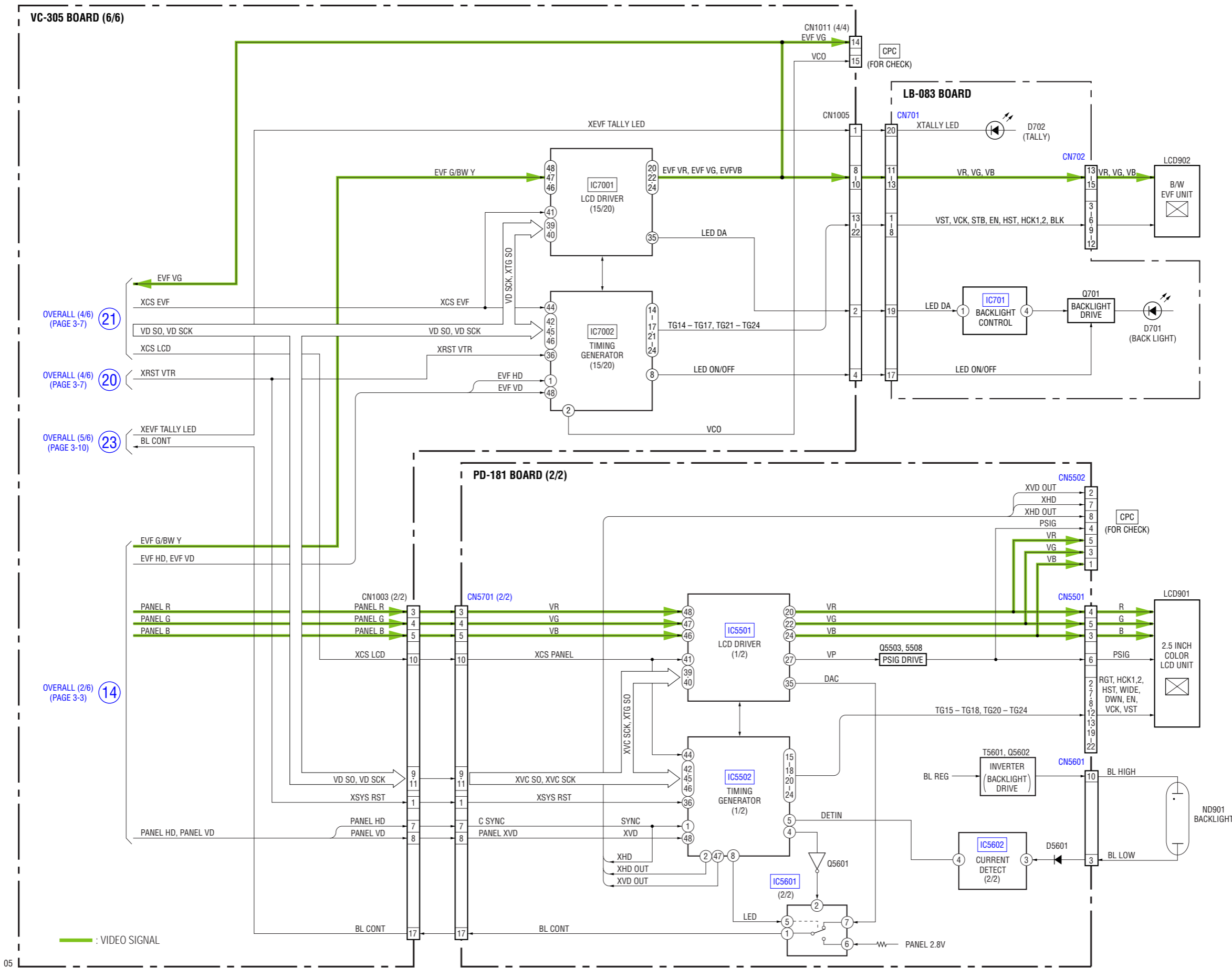
3-5. OVERALL BLOCK DIAGRAM (5/6) (): Number in parenthesis () indicates the division number of schematic diagram where the component is located.





3. BLOCK DIAGRAMS

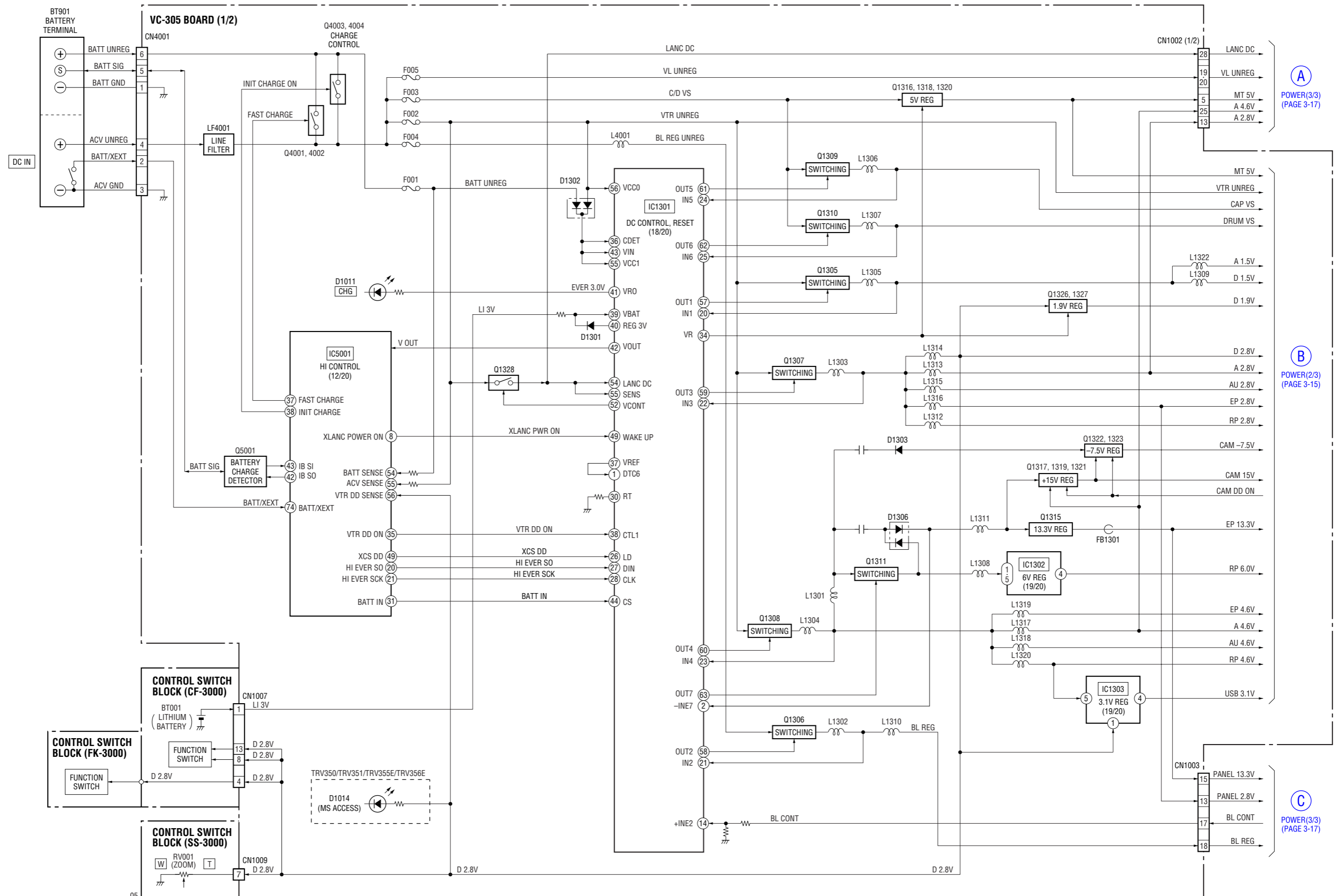
3-6. OVERALL BLOCK DIAGRAM (6/6) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.





3. BLOCK DIAGRAMS

3-7. POWER BLOCK DIAGRAM (1/3) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.

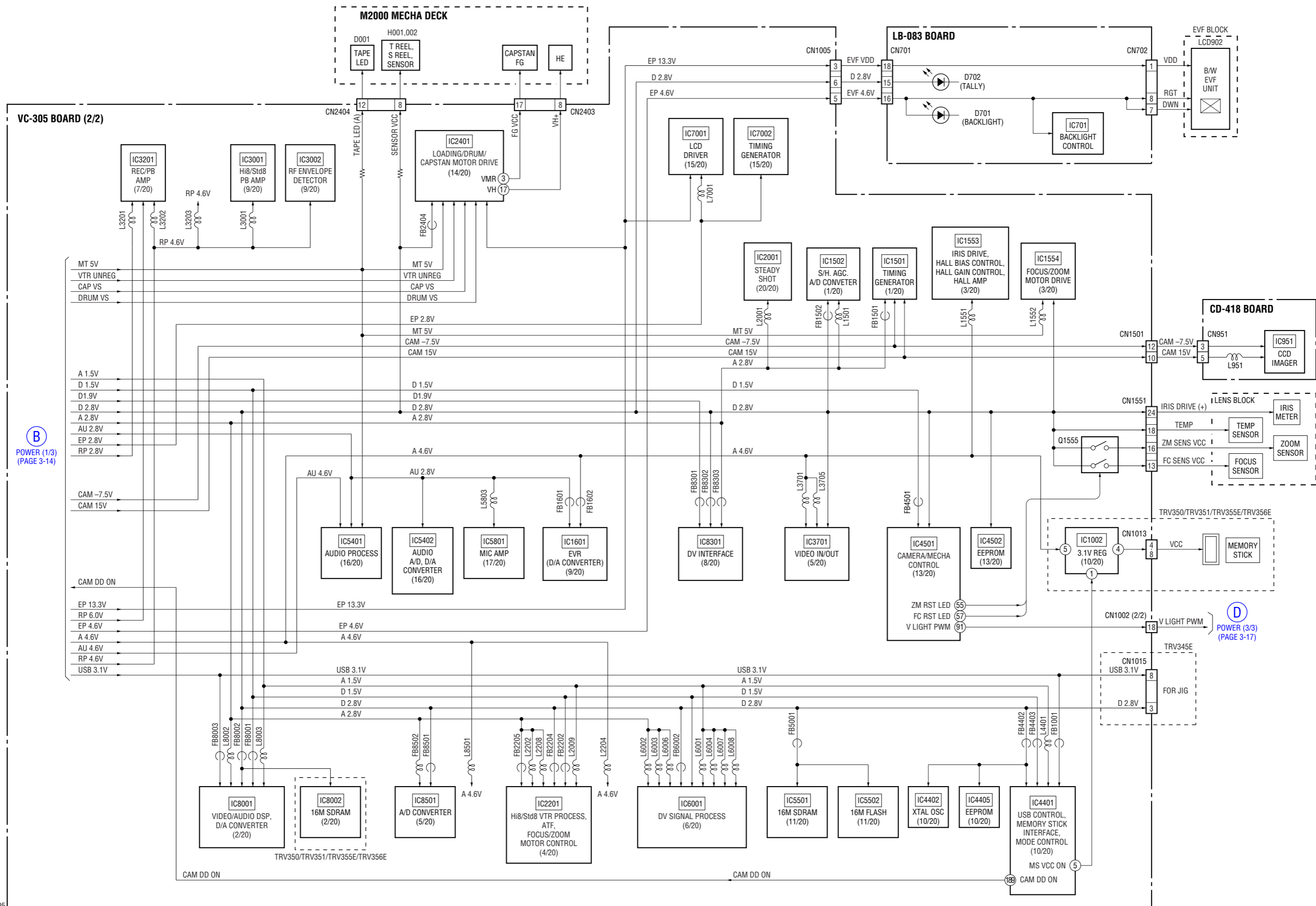


A POWER(3/3)
(PAGE 3-17)

B POWER(2/3)
(PAGE 3-15)

C POWER(3/3)
(PAGE 3-17)

3-8. POWER BLOCK DIAGRAM (2/3) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.



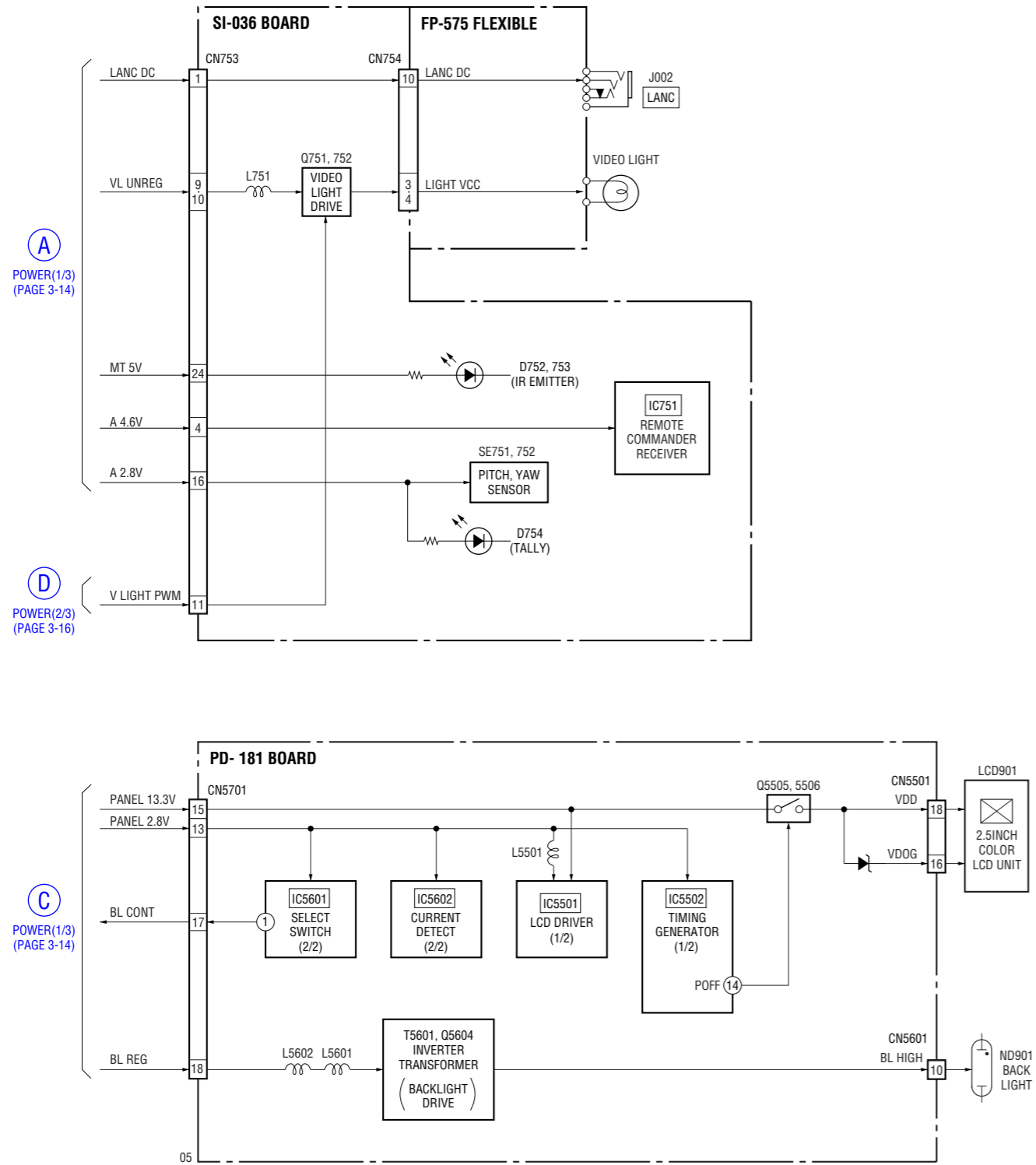
B POWER (1/3) (PAGE 3-14)

D POWER (3/3) (PAGE 3-17)



3. BLOCK DIAGRAMS

3-9. POWER BLOCK DIAGRAM (3/3) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.

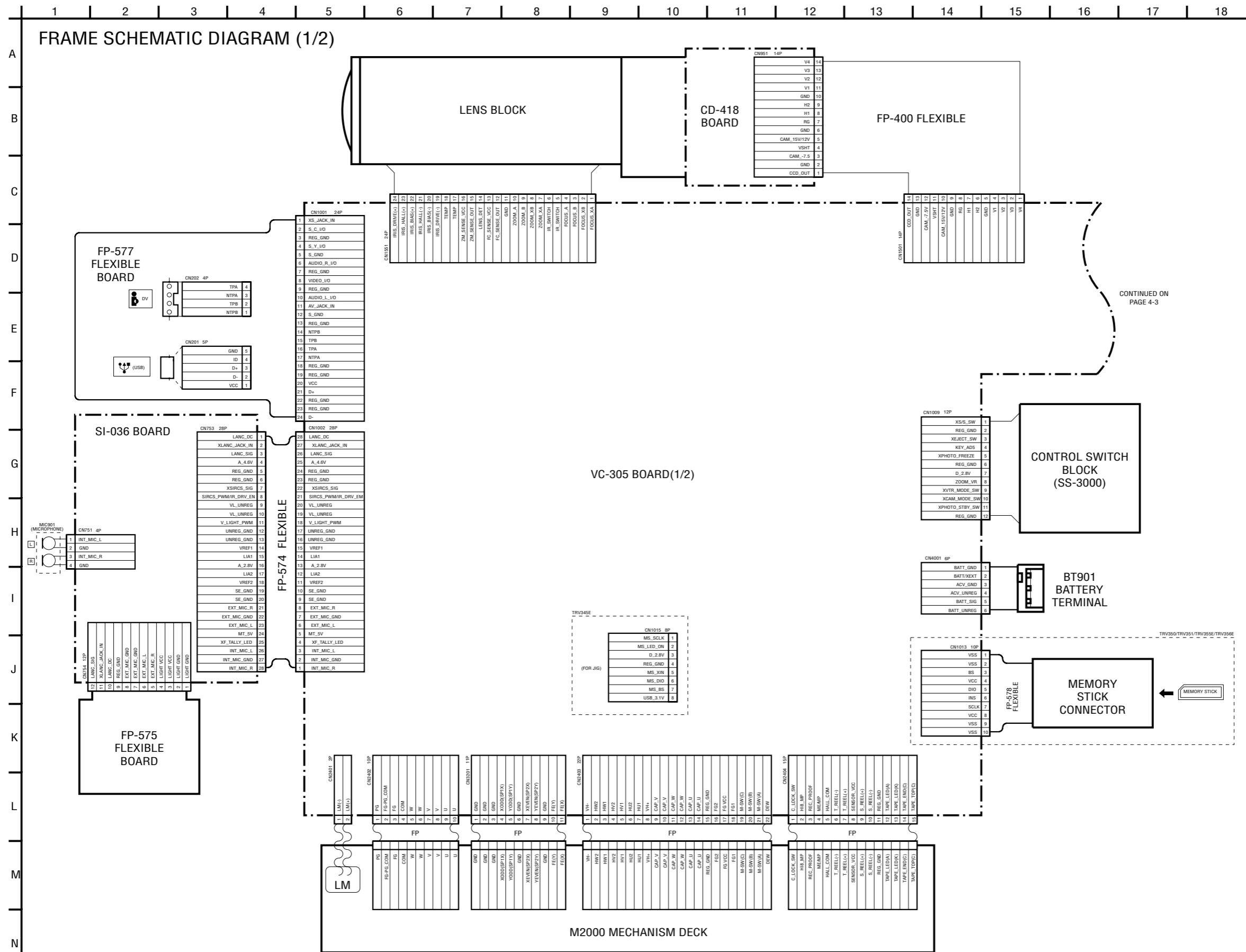




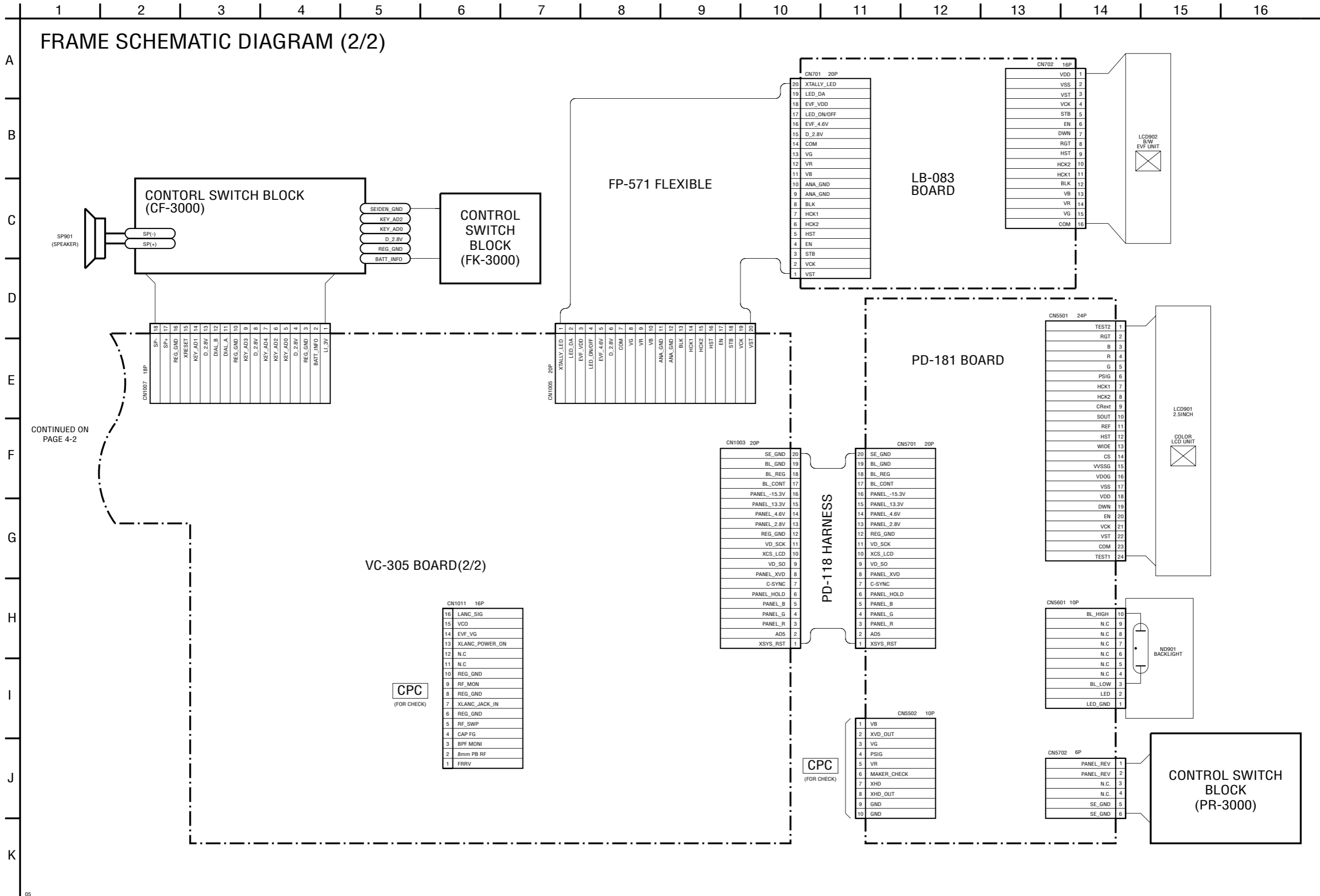
SECTION 4

PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

4-1. FRAME SCHEMATIC DIAGRAMS



CONTINUED ON PAGE 4-3



CONTINUED ON PAGE 4-2



4-2. SCHEMATIC DIAGRAMS

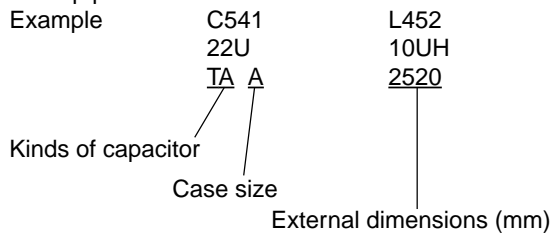
4-2. SCHEMATIC DIAGRAMS

THIS NOTE IS COMMON FOR SCHEMATIC DIAGRAMS

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

(For schematic diagrams)

- All capacitors are in μF unless otherwise noted. pF : μ 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.



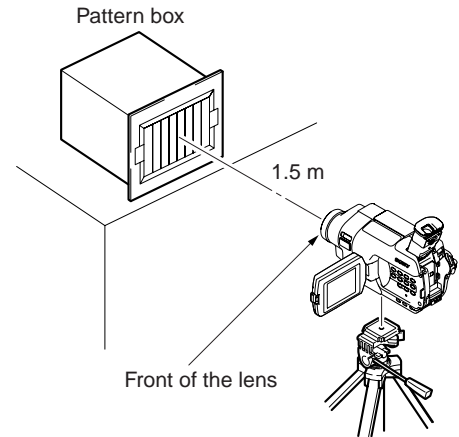
- Constants of resistors, capacitors, ICs and etc with XX indicate that they are not used.
In such cases, the unused circuits may be indicated.
- Parts with ★ differ according to the model/destination. Refer to the mount table for each function.
- All variable and adjustable resistors have characteristic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

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

1. Connection



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

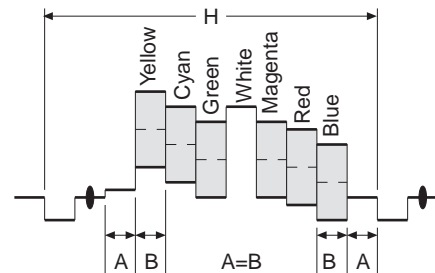


Fig. a (Video output terminal output waveform)

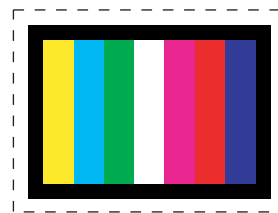


Fig.b (Picture on monitor TV)

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

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



4-2. SCHEMATIC DIAGRAMS

Link

<ul style="list-style-type: none"> • CD-418 BOARD (CCD IMAGER) 	<ul style="list-style-type: none"> • FP-577 FLEXIBLE BOARD
<ul style="list-style-type: none"> • PD-181 BOARD (1/2) (RGB DRIVE, TIMING GENERATOR) 	<ul style="list-style-type: none"> • LS-057 BOARD (S/T REEL SENSOR) FP-228, FP-299, FP-300, FP-301, FP-302 FLEXIBLE BOARD
<ul style="list-style-type: none"> • PD-181 BOARD (2/2) (BACKLIGHT DRIVE) 	<ul style="list-style-type: none"> • CONTROL SWITCH BLOCK (CF-3000, FK-3000)
<ul style="list-style-type: none"> • LB-083 BOARD (EVF, EVF BACKLIGHT) 	<ul style="list-style-type: none"> • CONTROL SWITCH BLOCK (SS-3000, PR-3000)
<ul style="list-style-type: none"> • SI-036 BOARD (STEADYSHOT, MIC) • FP-575 FLEXIBLE BOARD 	

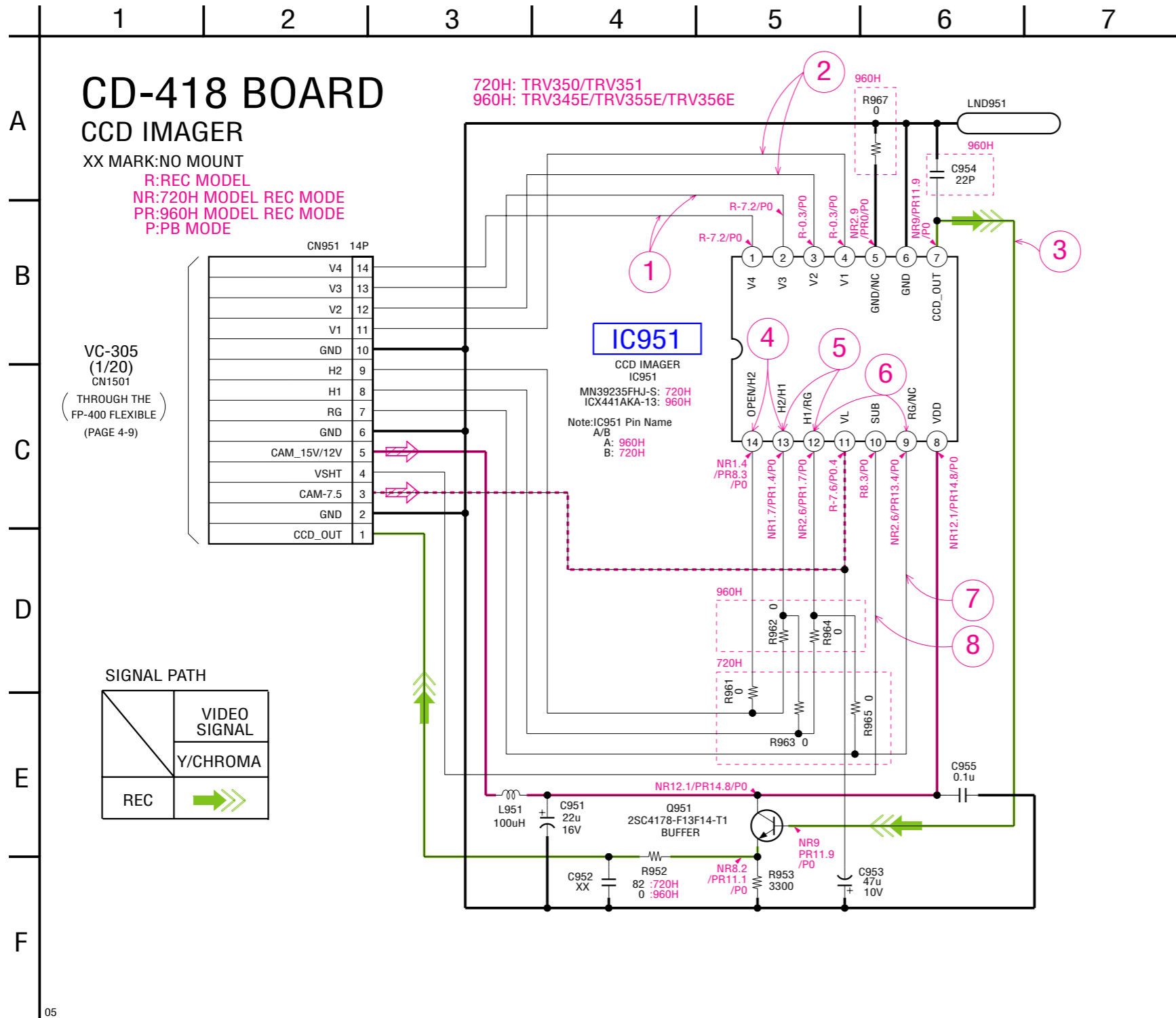
- COMMON NOTE FOR SCHEMATIC DIAGRAMS

- WAVEFORMS



For Schematic Diagram

- Refer to page 4-65 for printed wiring board.
- Refer to page 4-81 for waveforms.

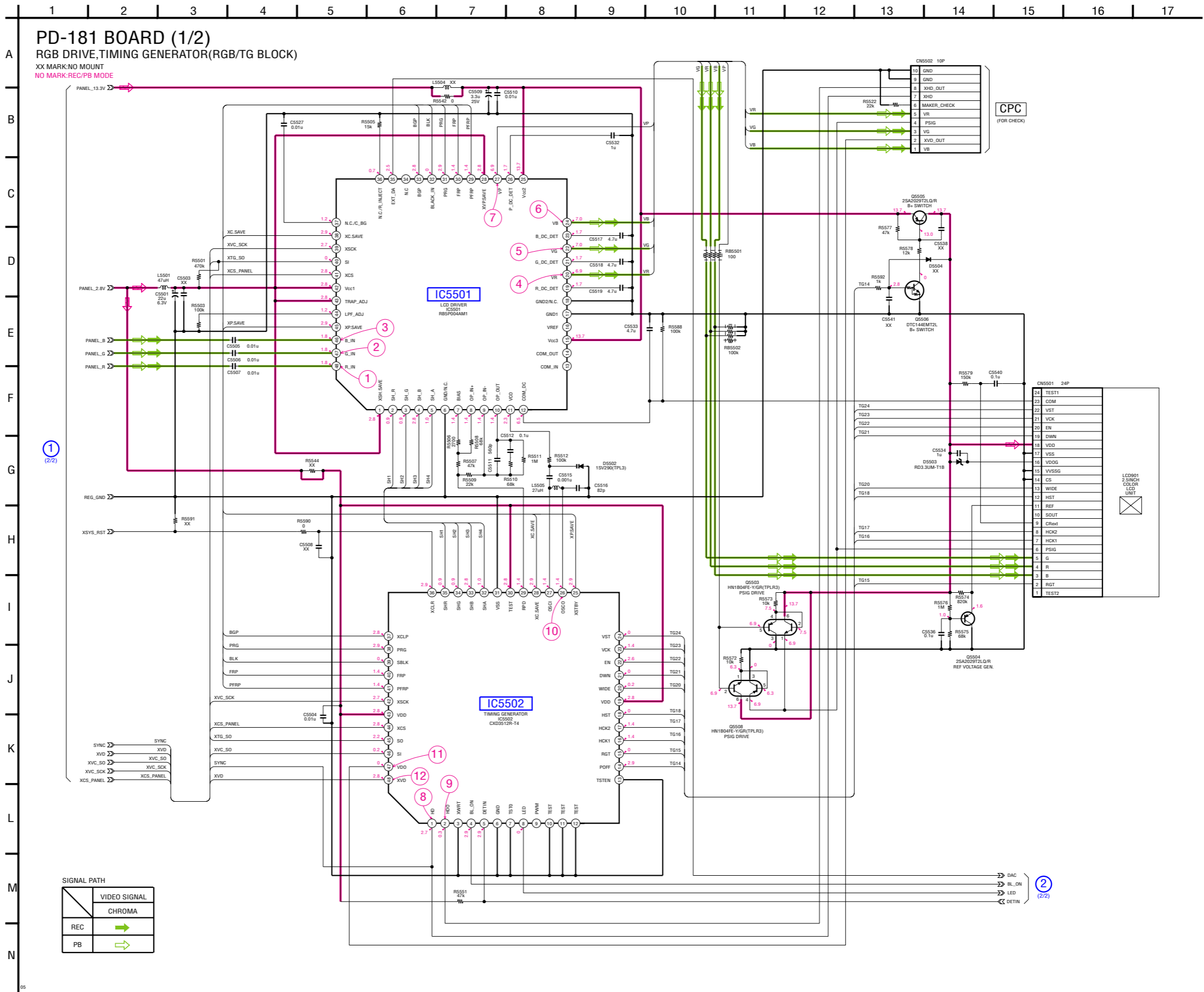


Schematic diagrams of the VC-305 board are not shown.
Pages from 4-9 to 4-48 are not shown.



For Schematic Diagram

- Refer to page 4-71 for printed wiring board.
- Refer to page 4-88, 4-89 for waveforms.





4-2. SCHEMATIC DIAGRAMS

PD-181 BOARD SIDE A

PD-181 BOARD SIDE B

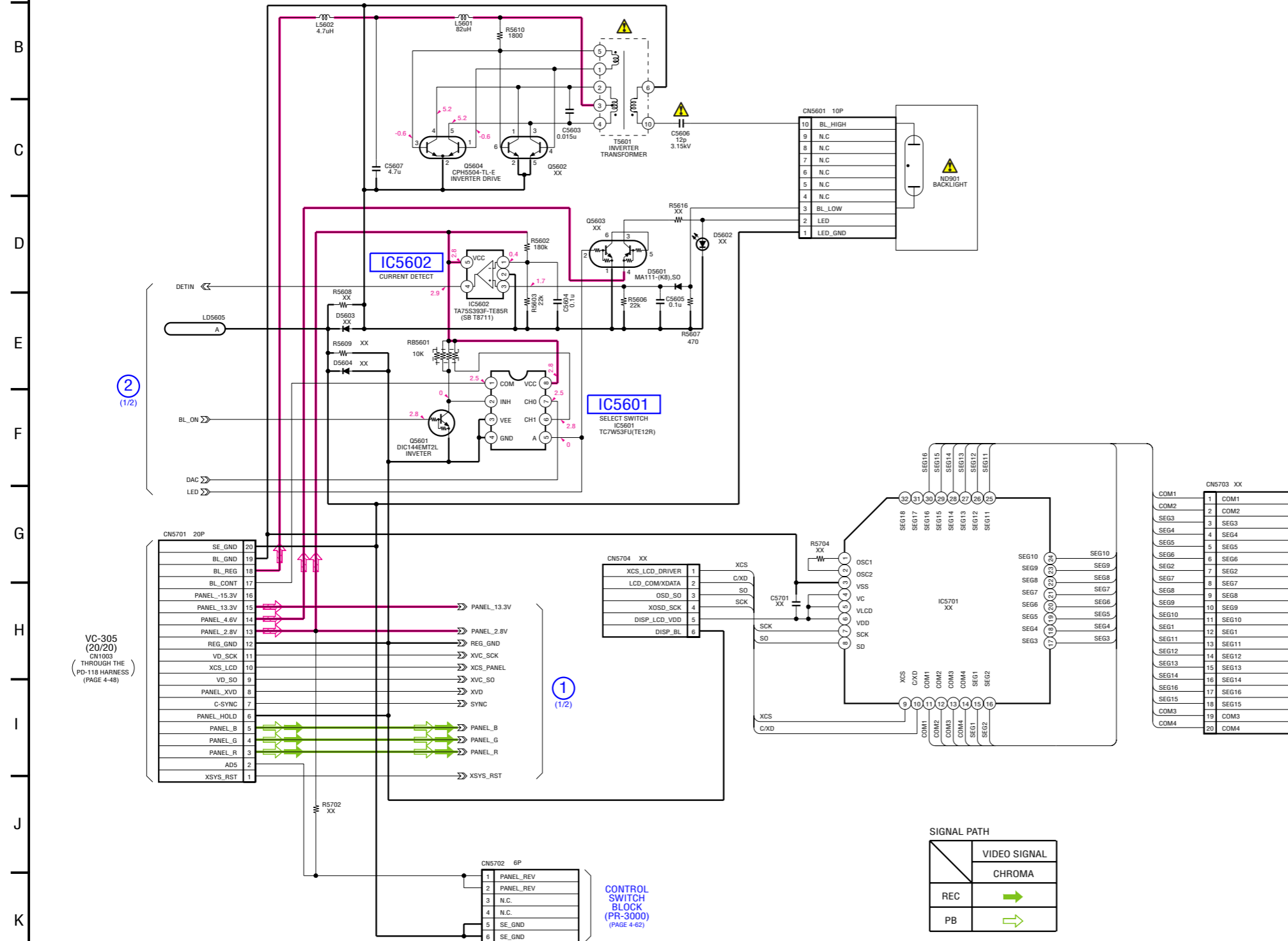
For Schematic Diagram

• Refer to page 4-71 for printed wiring board.

1 2 3 4 5 6 7 8 9 10 11 12 13 14

PD-181 BOARD (2/2)
BACKLIGHT DRIVE(BL BLOCK)

XX MARK:NO MOUNT
NO MARK:REC/PB MODE



SIGNAL PATH

	VIDEO SIGNAL
	CHROMA
REC	→
PB	→

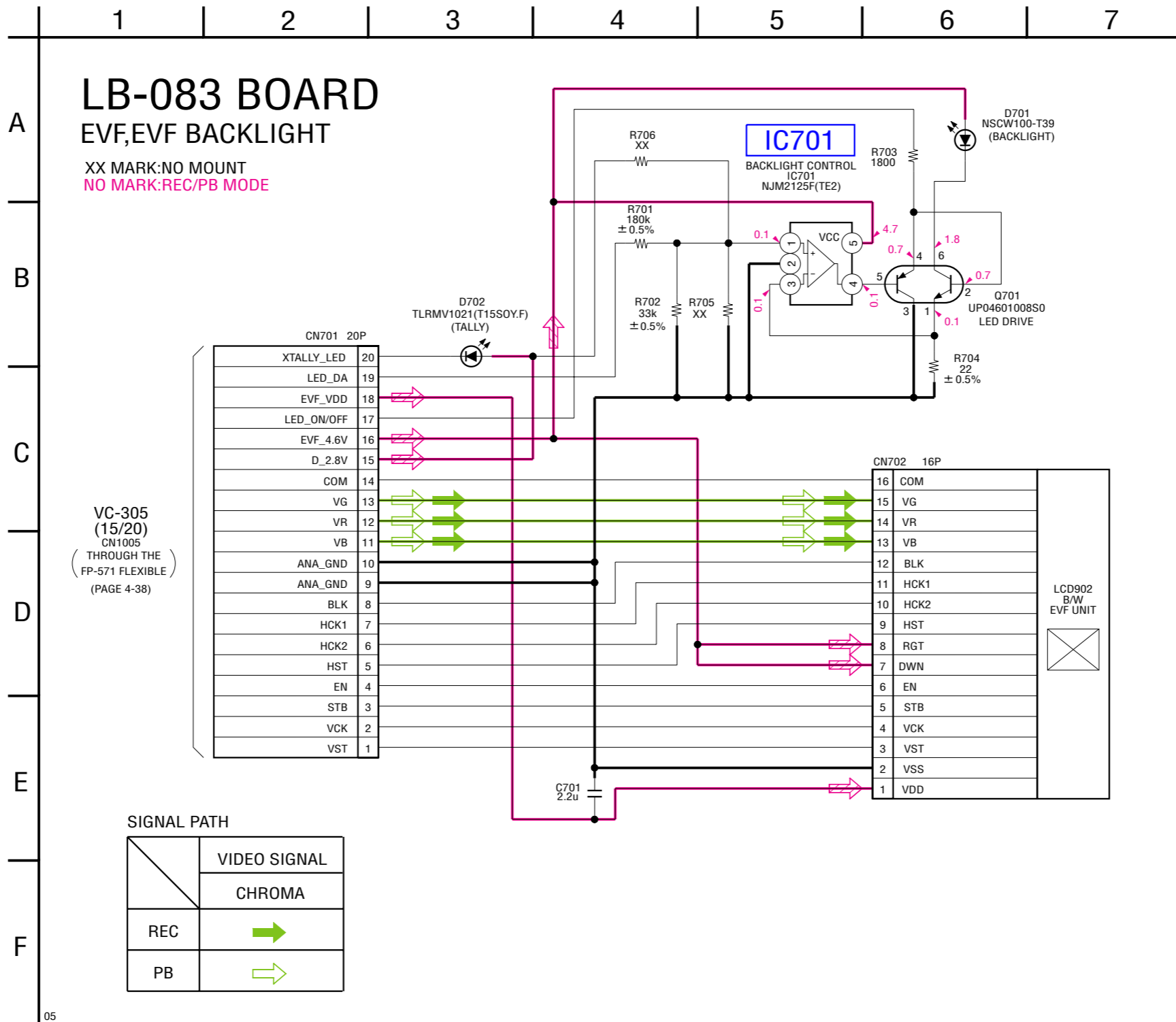
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

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



For Schematic Diagram

• Refer to page 4-75 for printed wiring board.

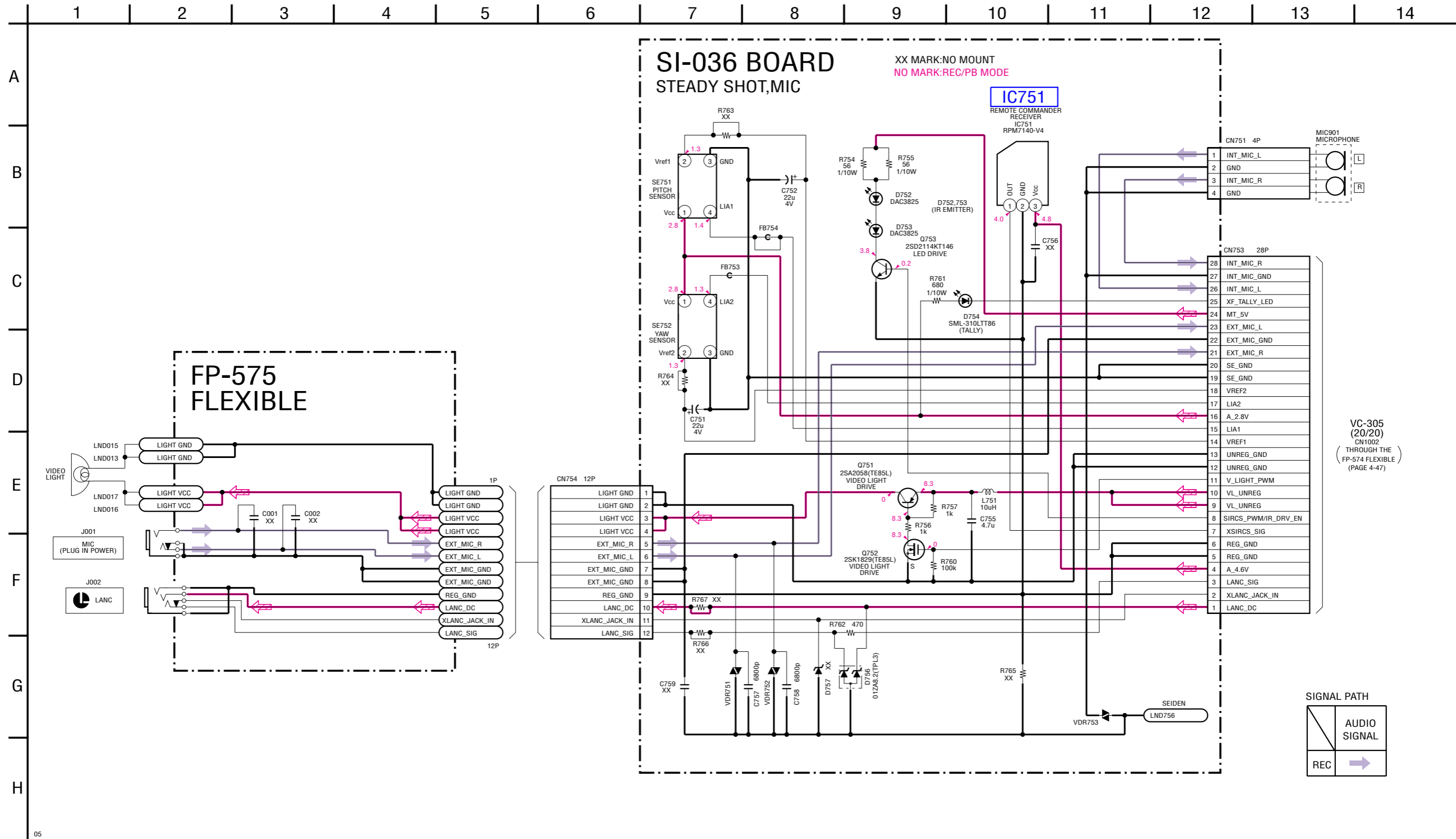


05



For Schematic Diagram

• Refer to page 4-77, 4-79 for printed wiring board.



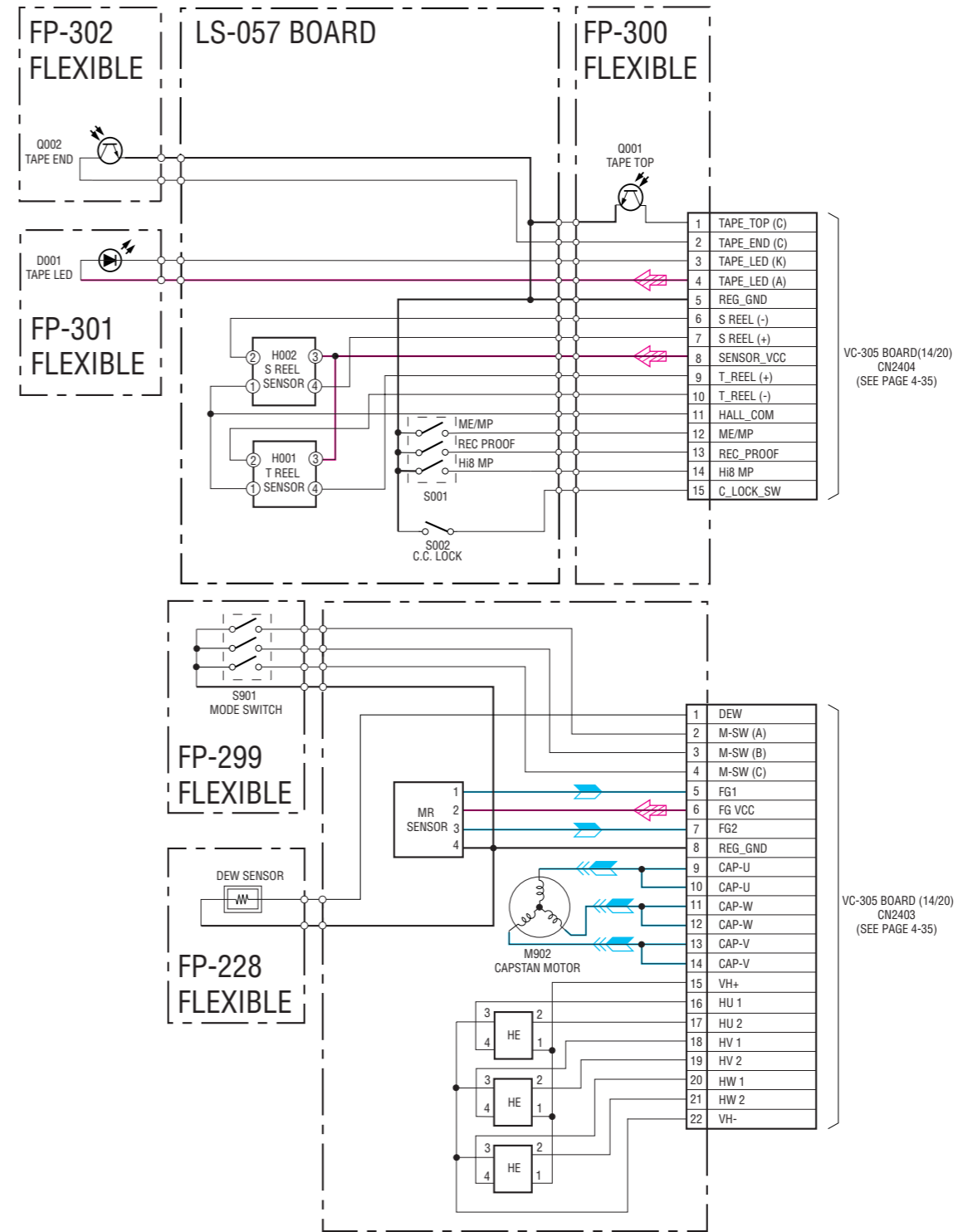
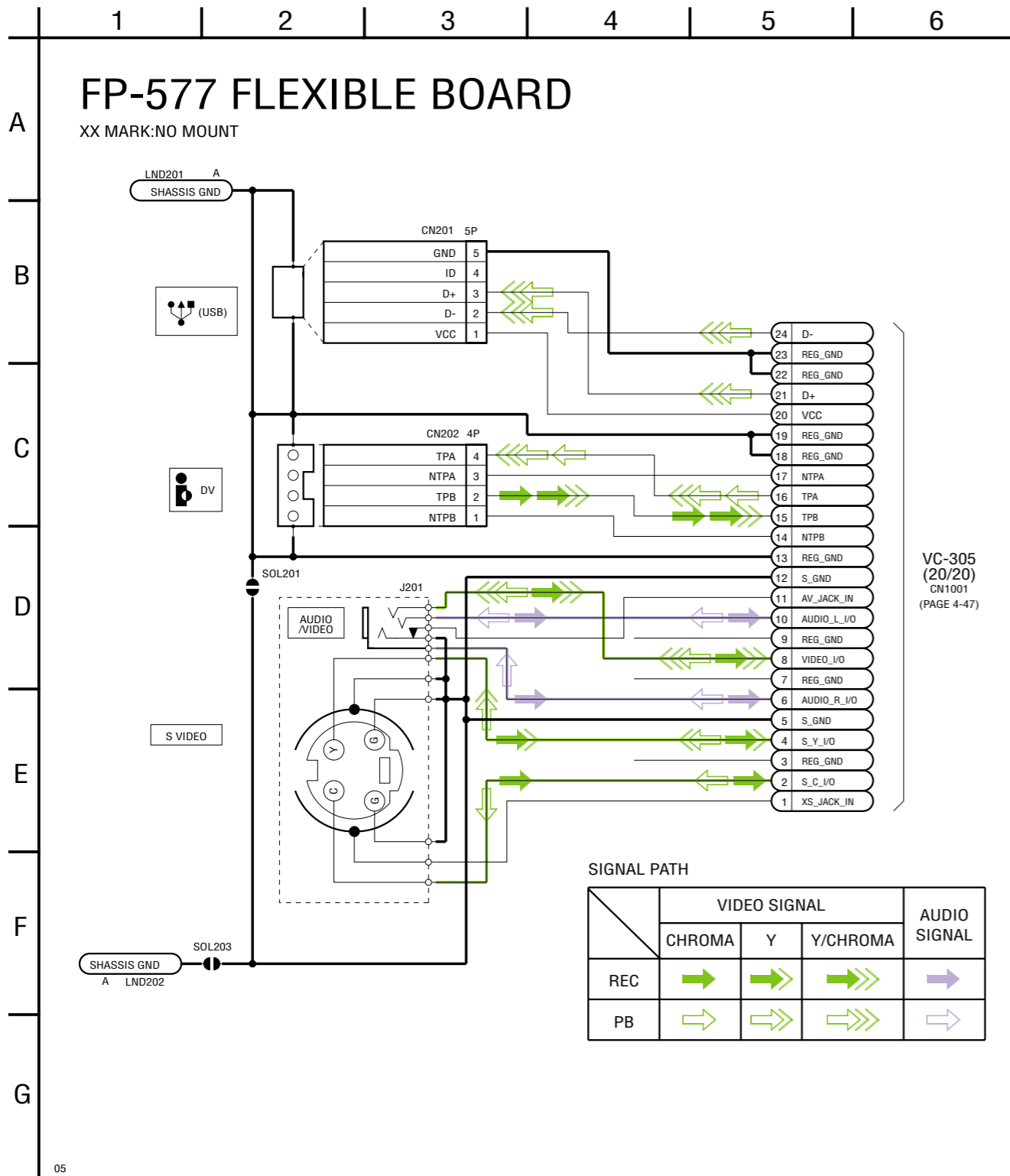


For Schematic Diagram

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

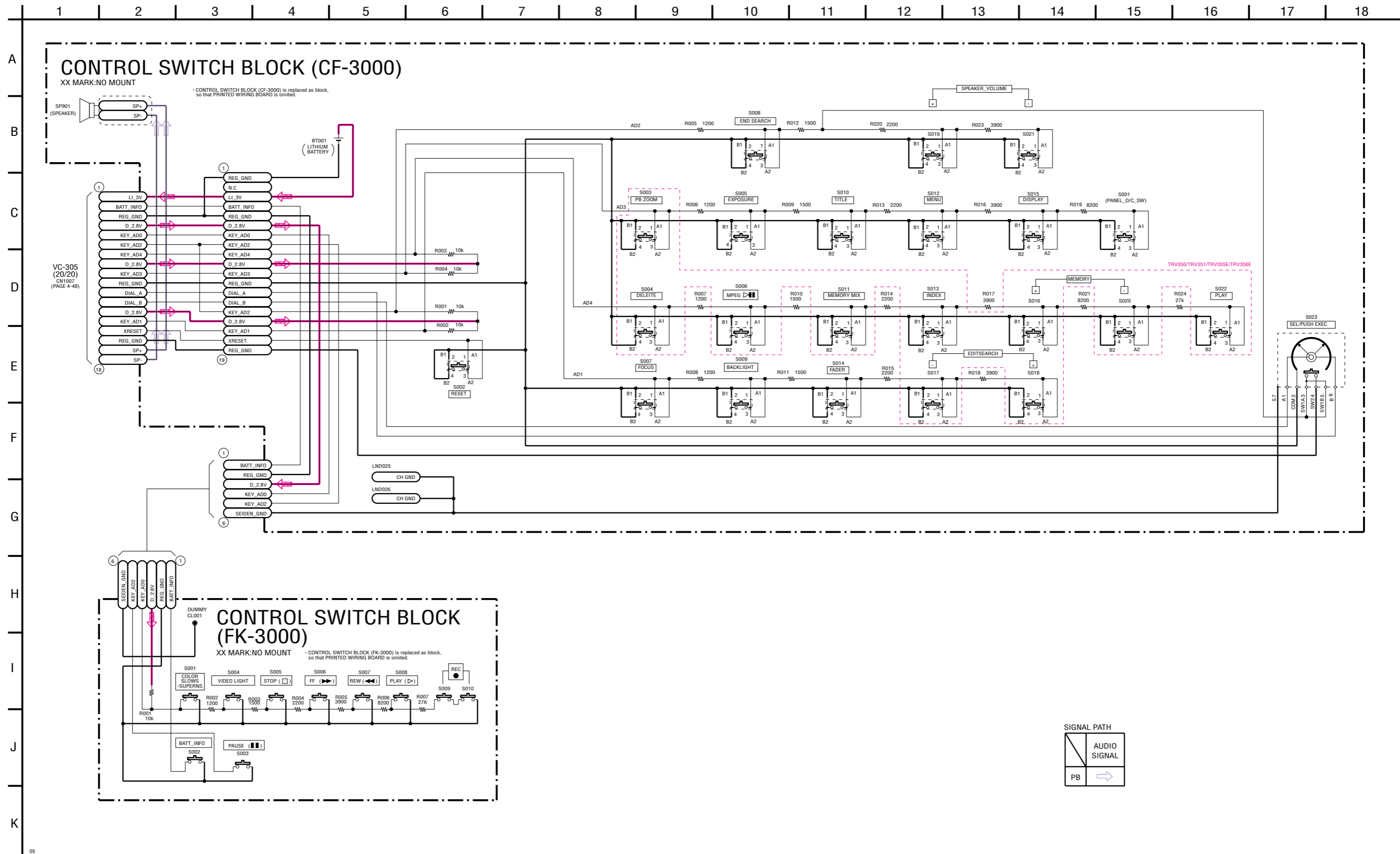
For Schematic Diagram

• Refer to page 4-80 for printed wiring board.



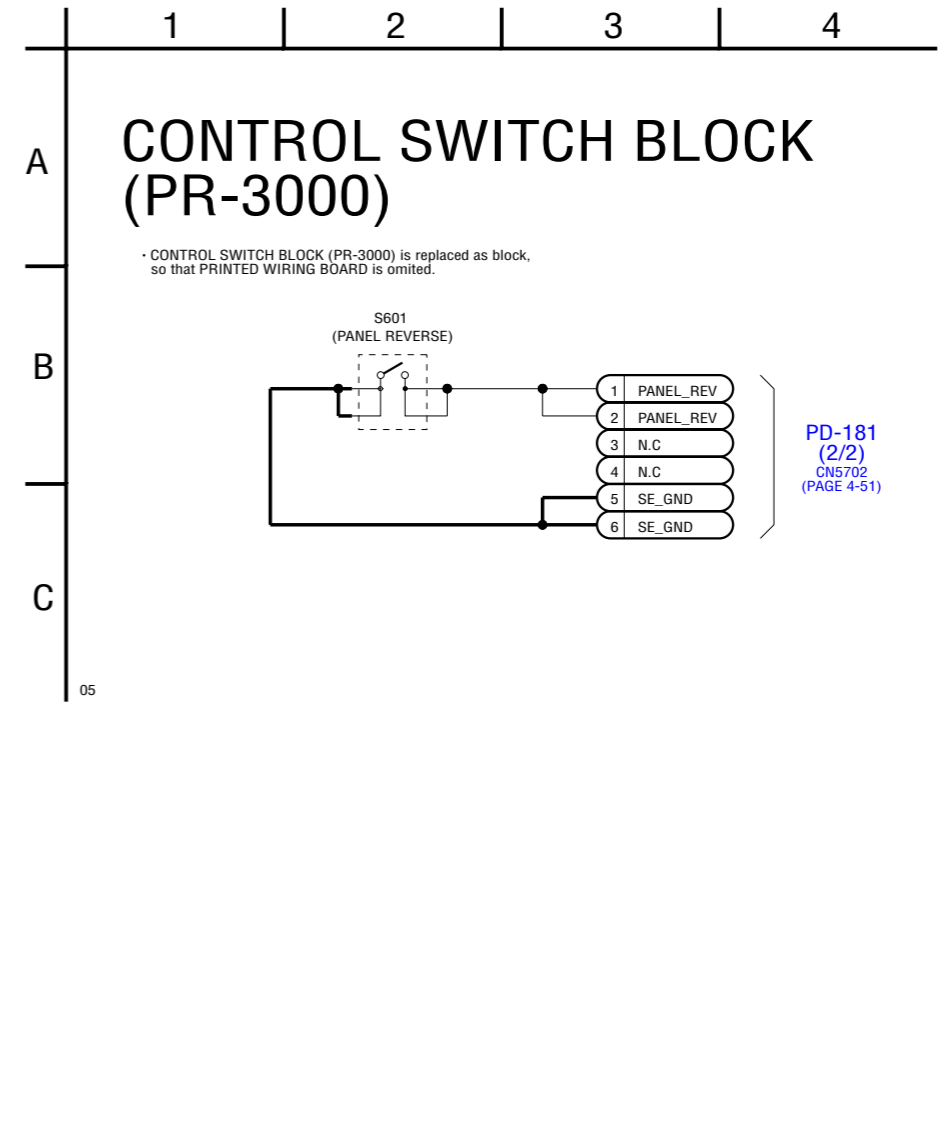
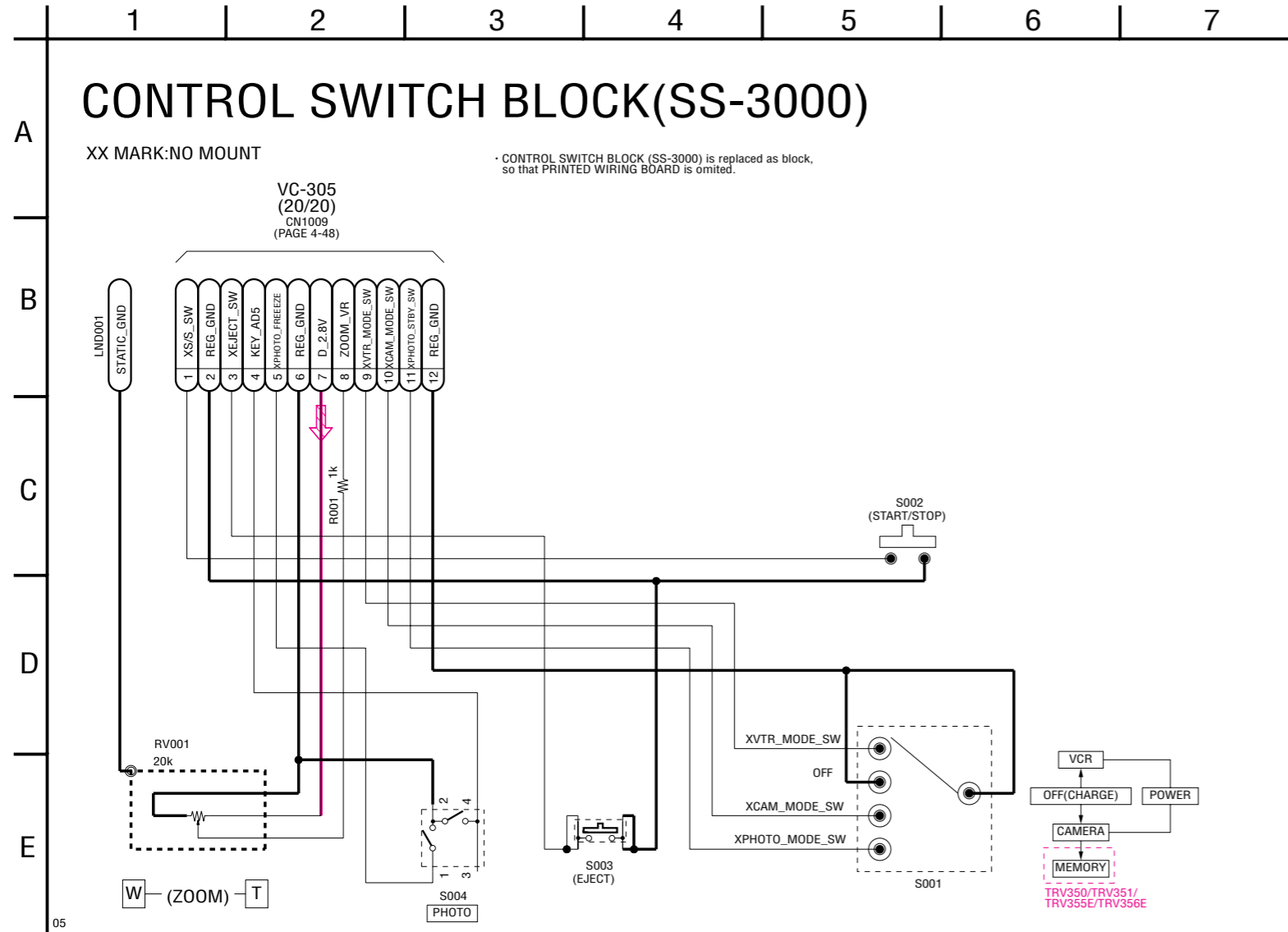


4-2. SCHEMATIC DIAGRAMS





4-2. SCHEMATIC DIAGRAMS





4-3. PRINTED WIRING BOARDS

Link

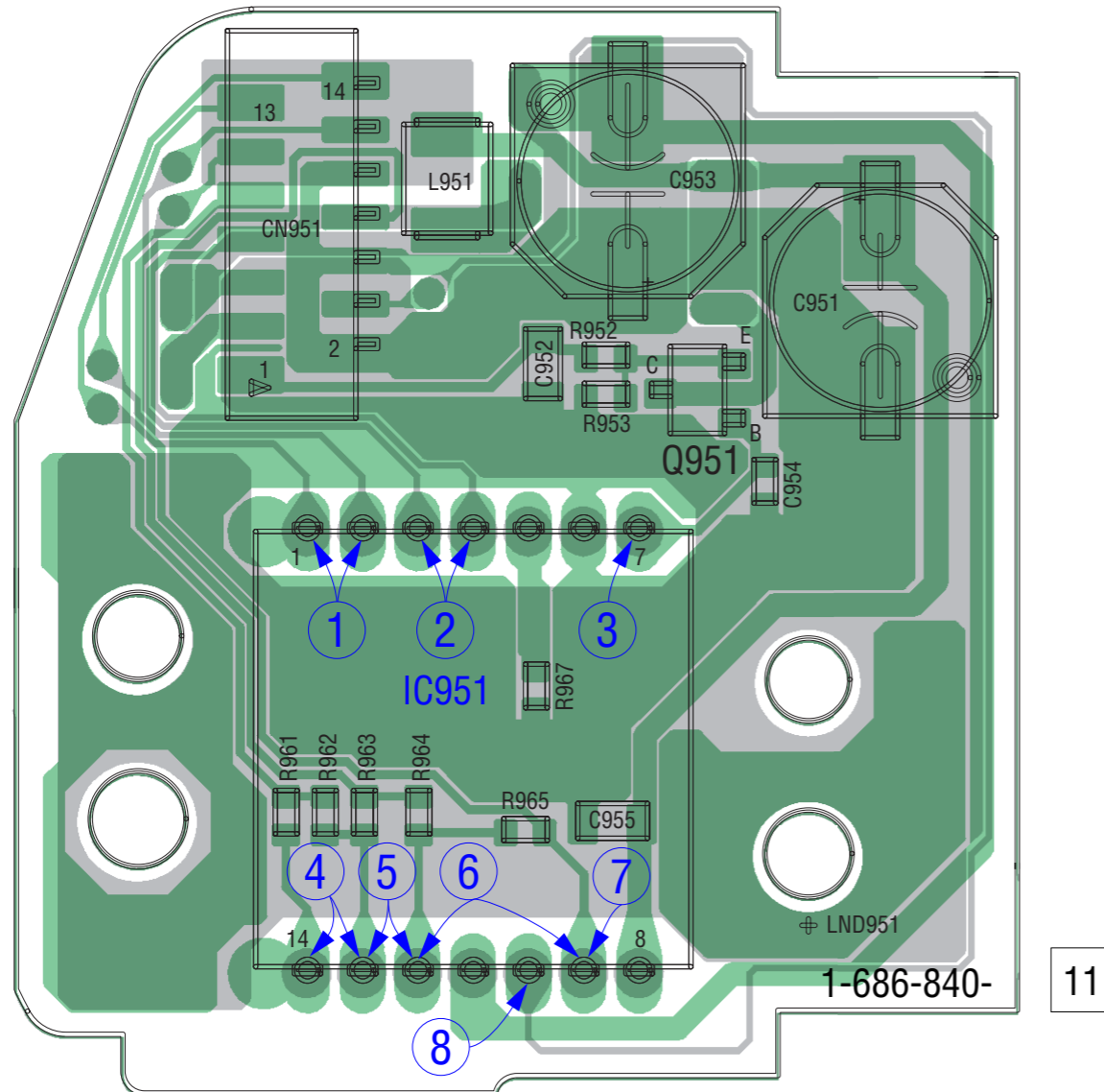
• CD-418 BOARD	• LB-083 BOARD
• PD-181 BOARD (SIDE A)	• SI-036 BOARD
• PD-181 BOARD (SIDE B)	• LS-057 BOARD, FP-228, FP-299, FP-300, FP-301, FP-302, FP-575, FP-577 FLEXIBLE BOARD
• COMMON NOTE FOR PRINTED WIRING BOARDS	• WAVEFORMS
• MOUNTED PARTS LOCATION	• CIRCUIT BOARDS LOCATION
	• FLEXIBLE BOARDS LOCATION



CD-418 (CCD IMAGER)

Note for Printed Wiring Board (See page 4-63).

CD-418 BOARD



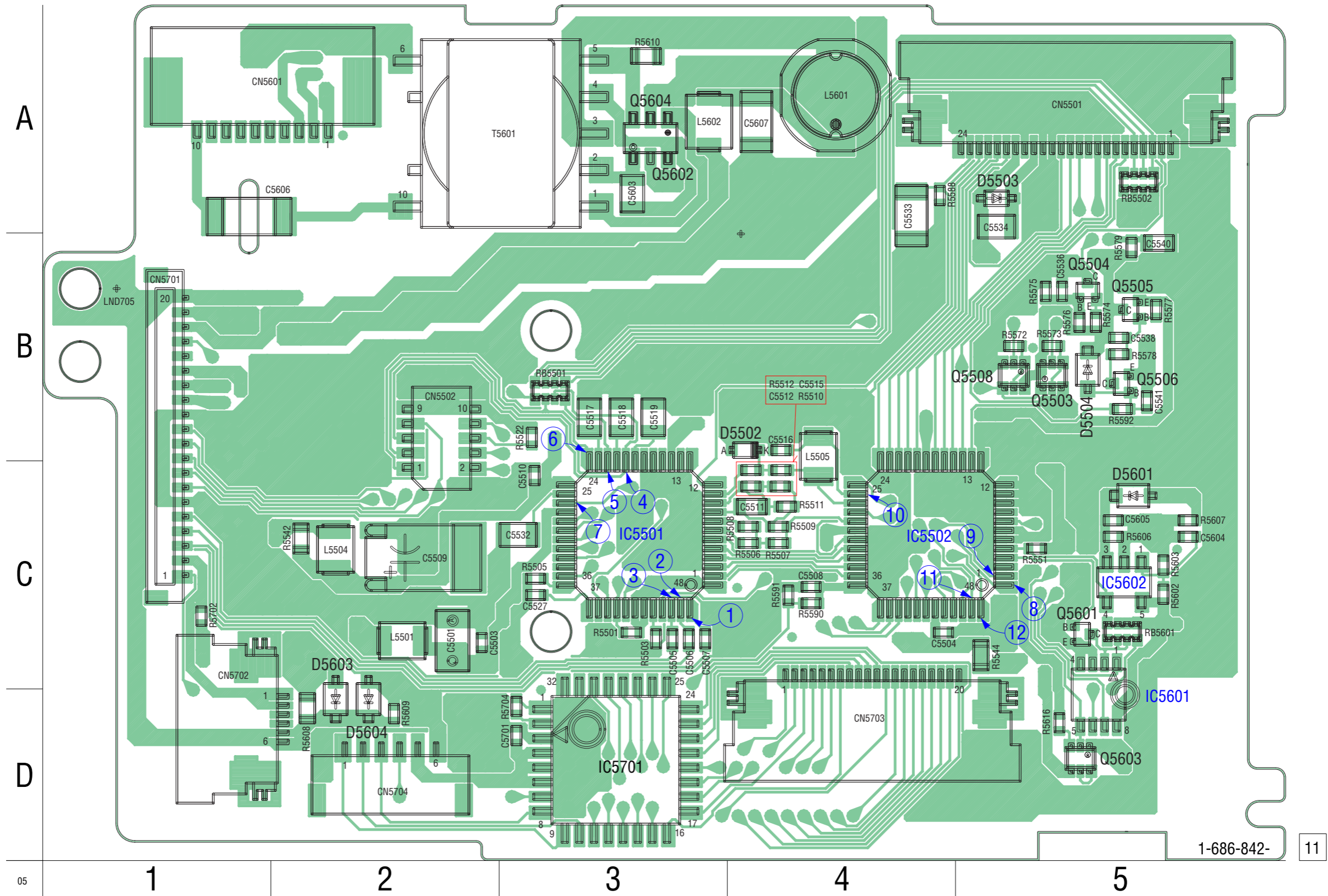
Printed wiring boards of the VC-305 board are not shown.
Pages from 4-67 to 4-70 are not shown.



PD-181 (RGB DRIVE, TIMING GENERATOR, BACKLIGHT DRIVE)

Note for Printed Wiring Board (See page 4-63).

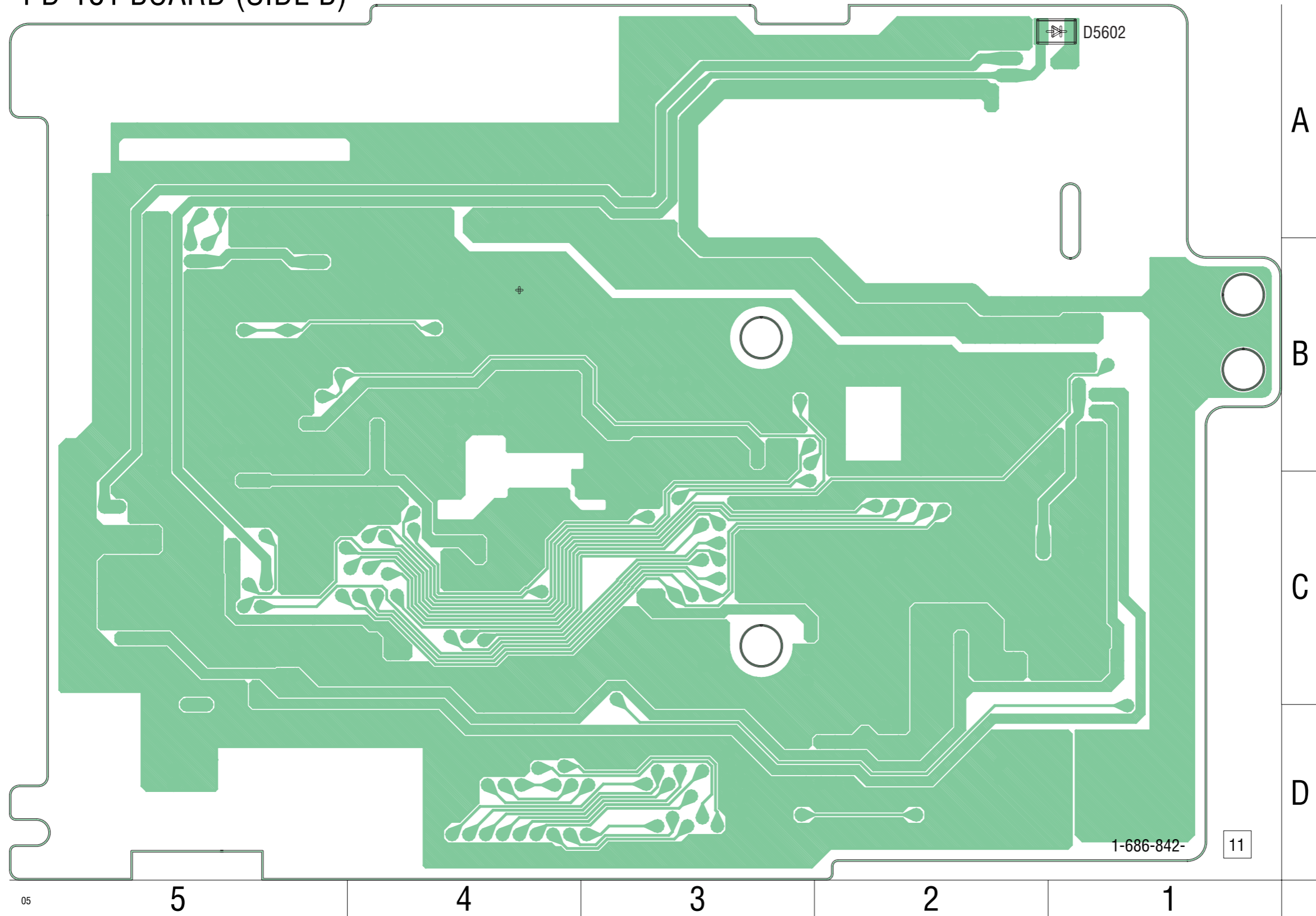
PD-181 BOARD (SIDE A)



1-686-842-

11

PD-181 BOARD (SIDE B)

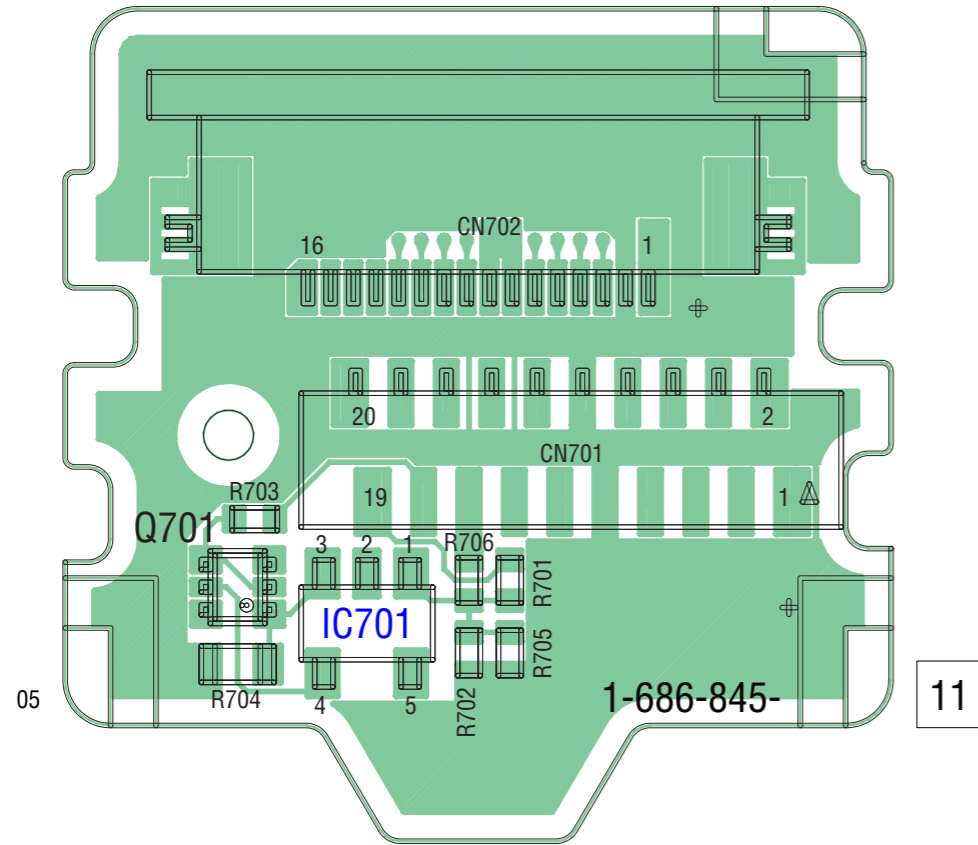




LB-083 (EVF BACKLIGHT)

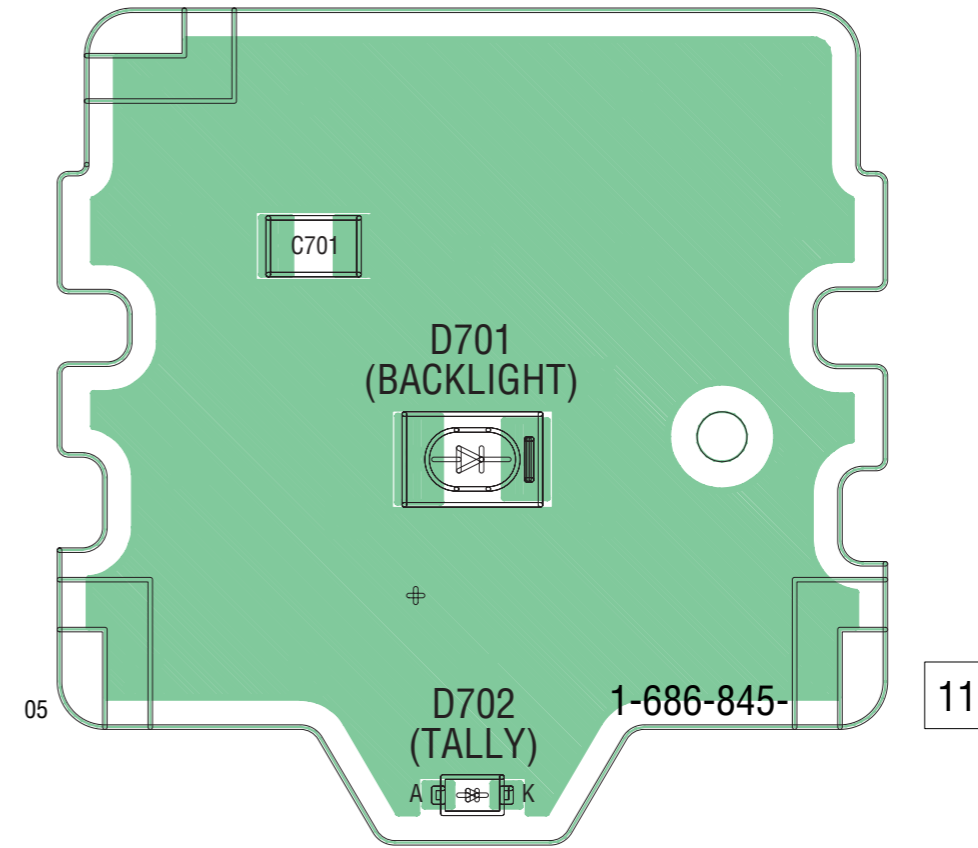
Note for Printed Wiring Board (See page 4-63).

LB-083 BOARD (SIDE A)



11

LB-083 BOARD (SIDE B)

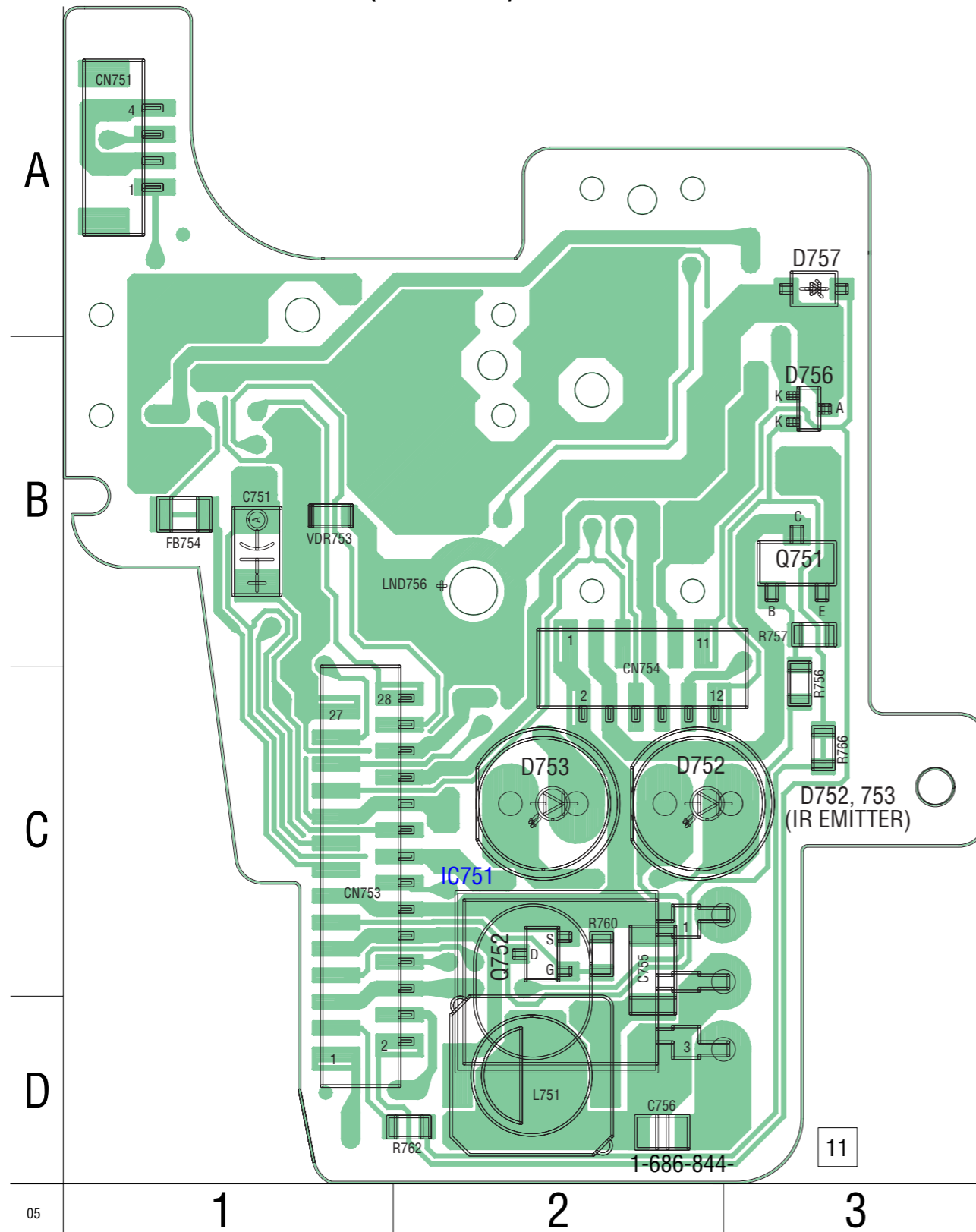


11

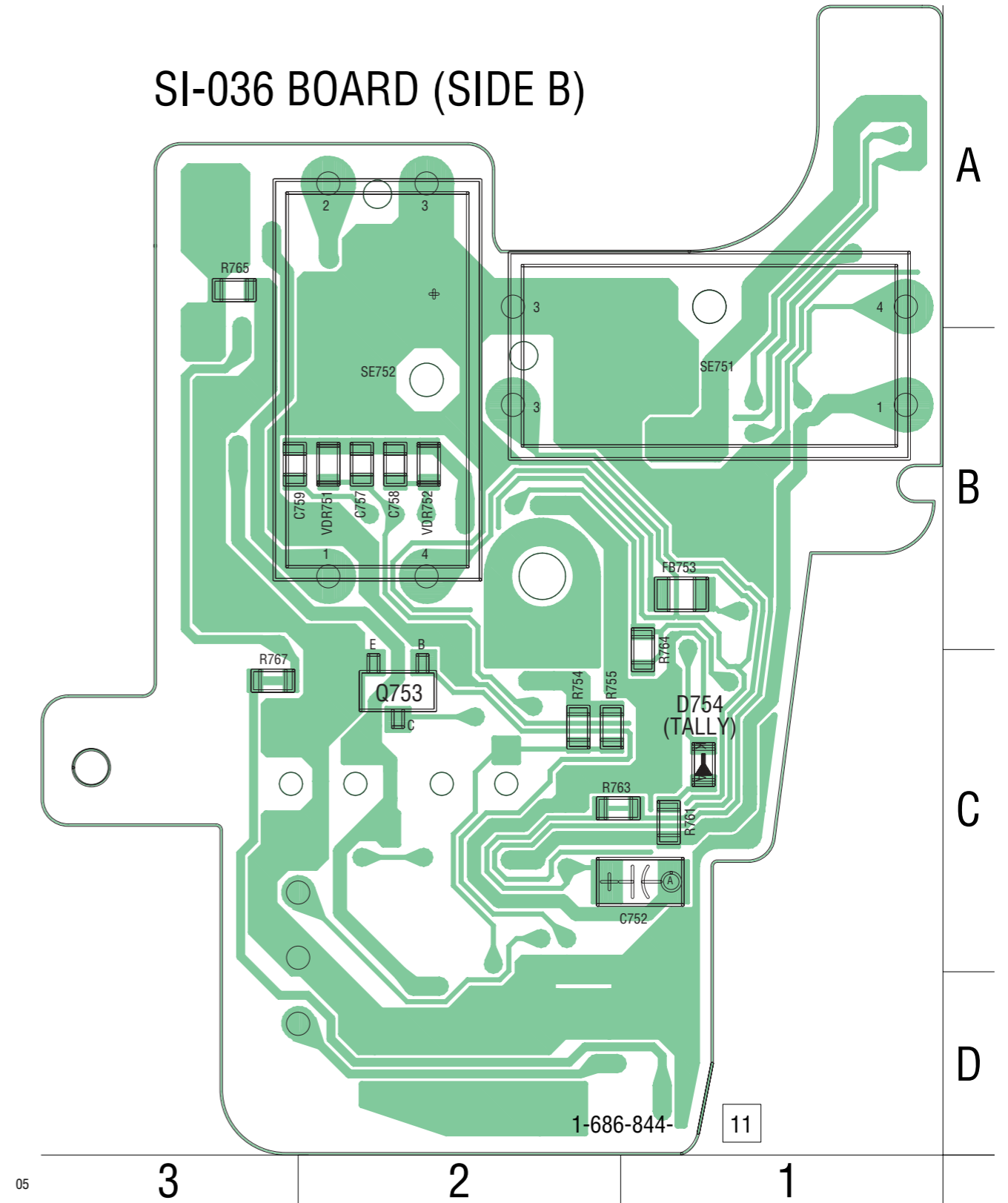
SI-036 (STEADYSHOT, MIC)

Note for Printed Wiring Board (See page 4-63).

SI-036 BOARD (SIDE A)



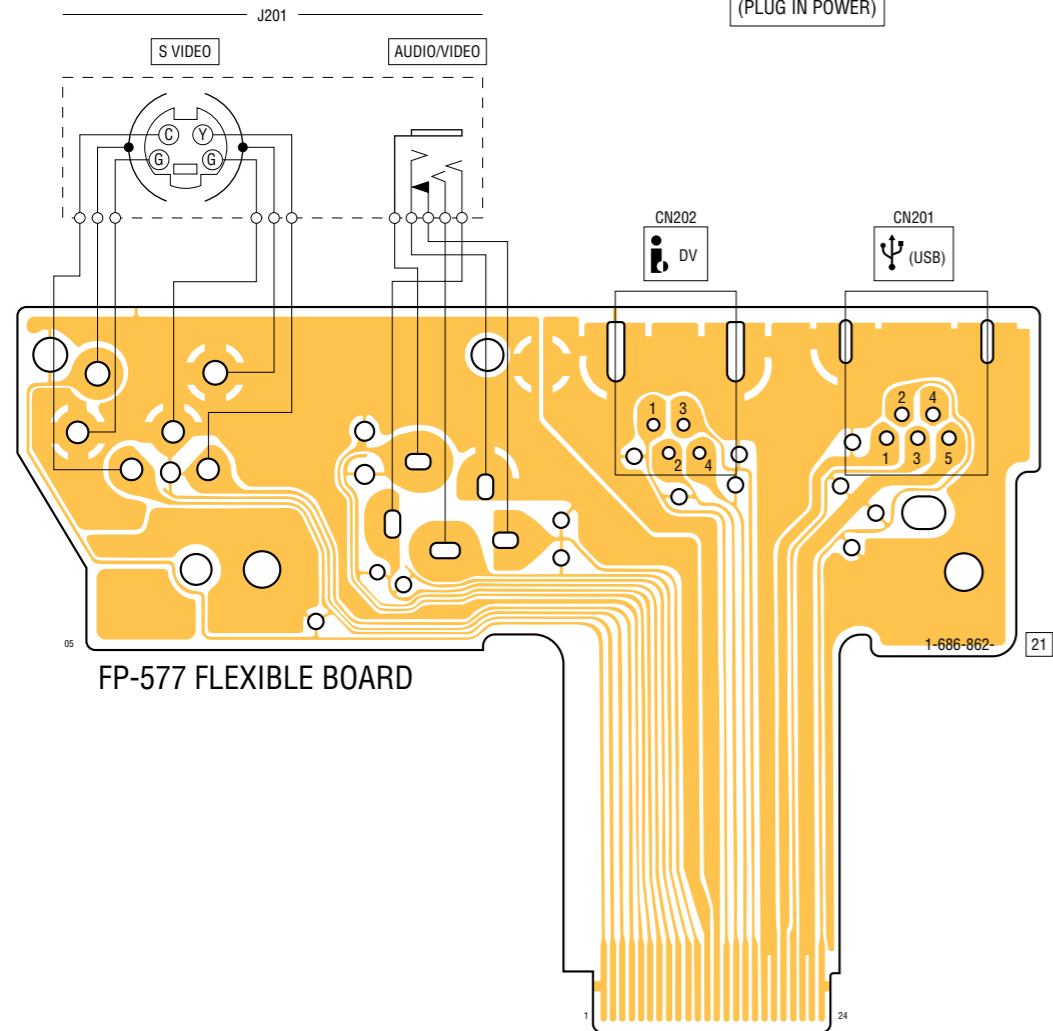
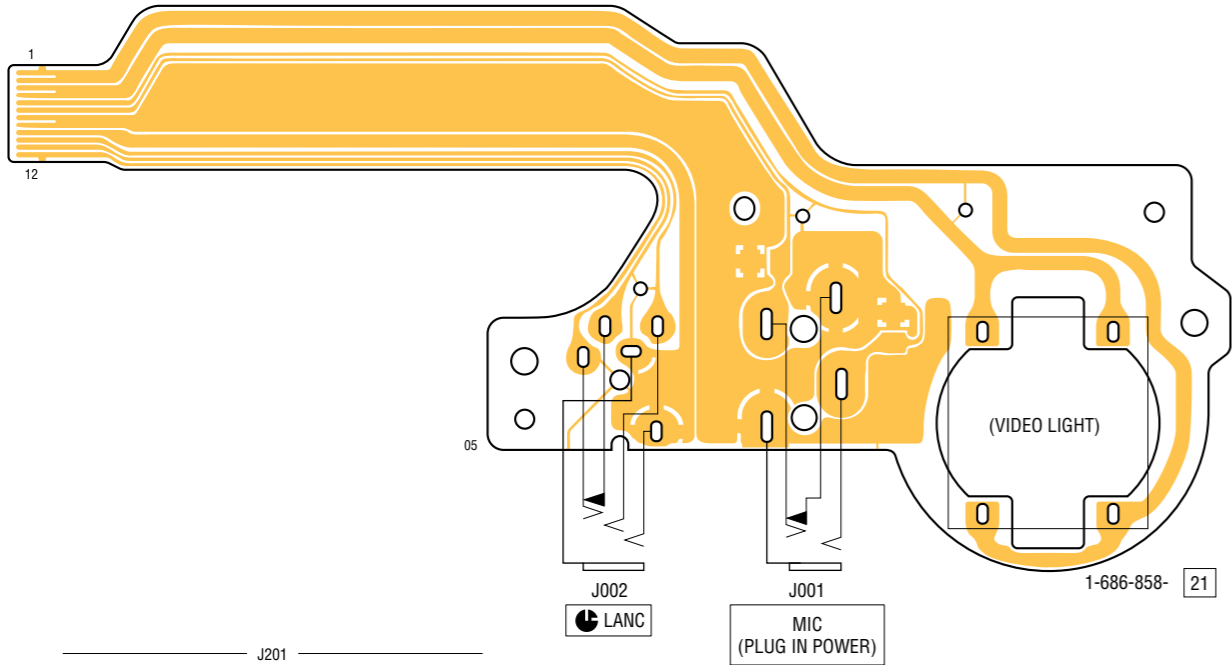
SI-036 BOARD (SIDE B)



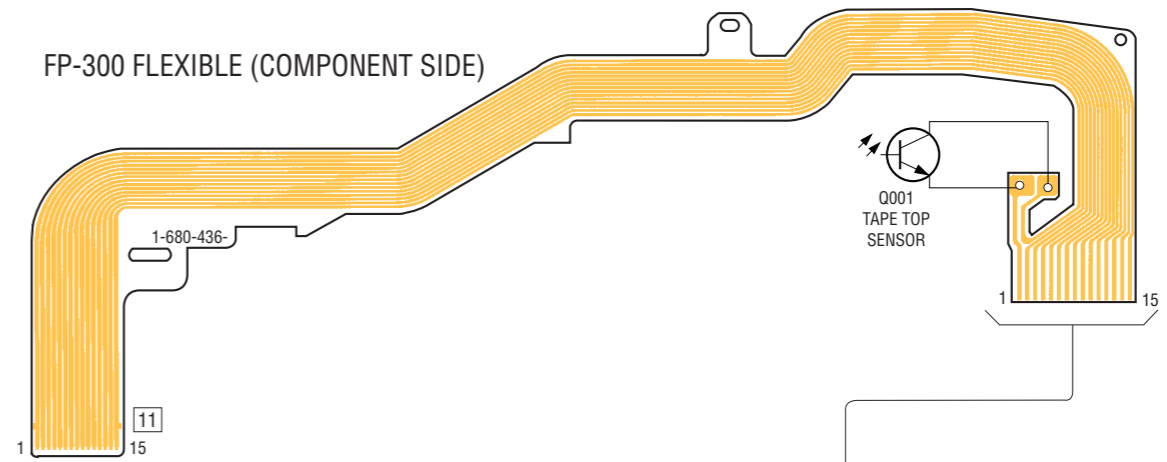


LS-057 (S/T REEL SENSOR), FP-228, FP-299, FP-300, FP-301, FP-302, FP-575, FP-577 FLEXIBLE

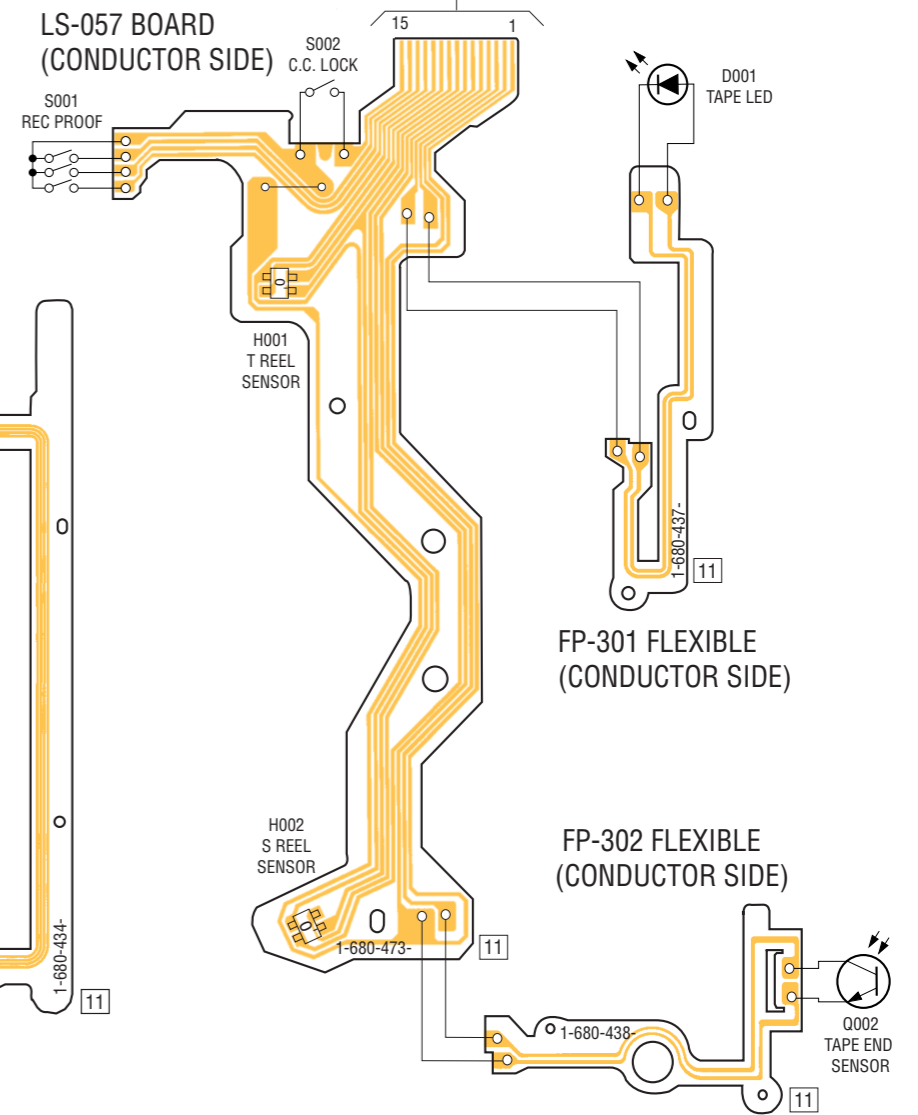
FP-575 FLEXIBLE BOARD



FP-300 FLEXIBLE (COMPONENT SIDE)



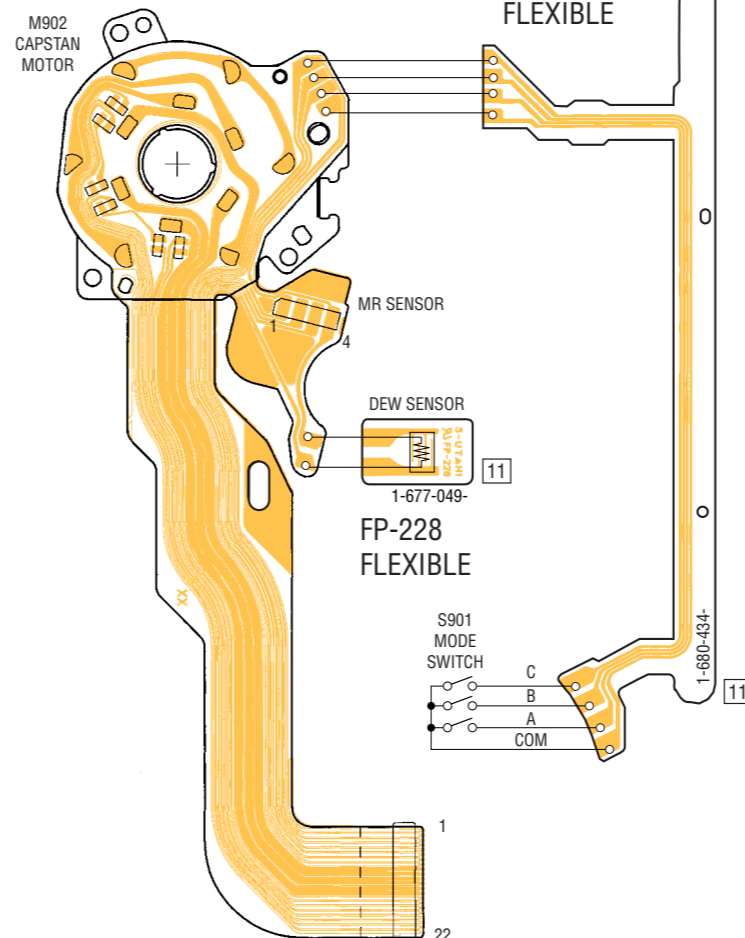
LS-057 BOARD (CONDUCTOR SIDE)



FP-301 FLEXIBLE (CONDUCTOR SIDE)

FP-302 FLEXIBLE (CONDUCTOR SIDE)

FP-299 FLEXIBLE



FP-228 FLEXIBLE



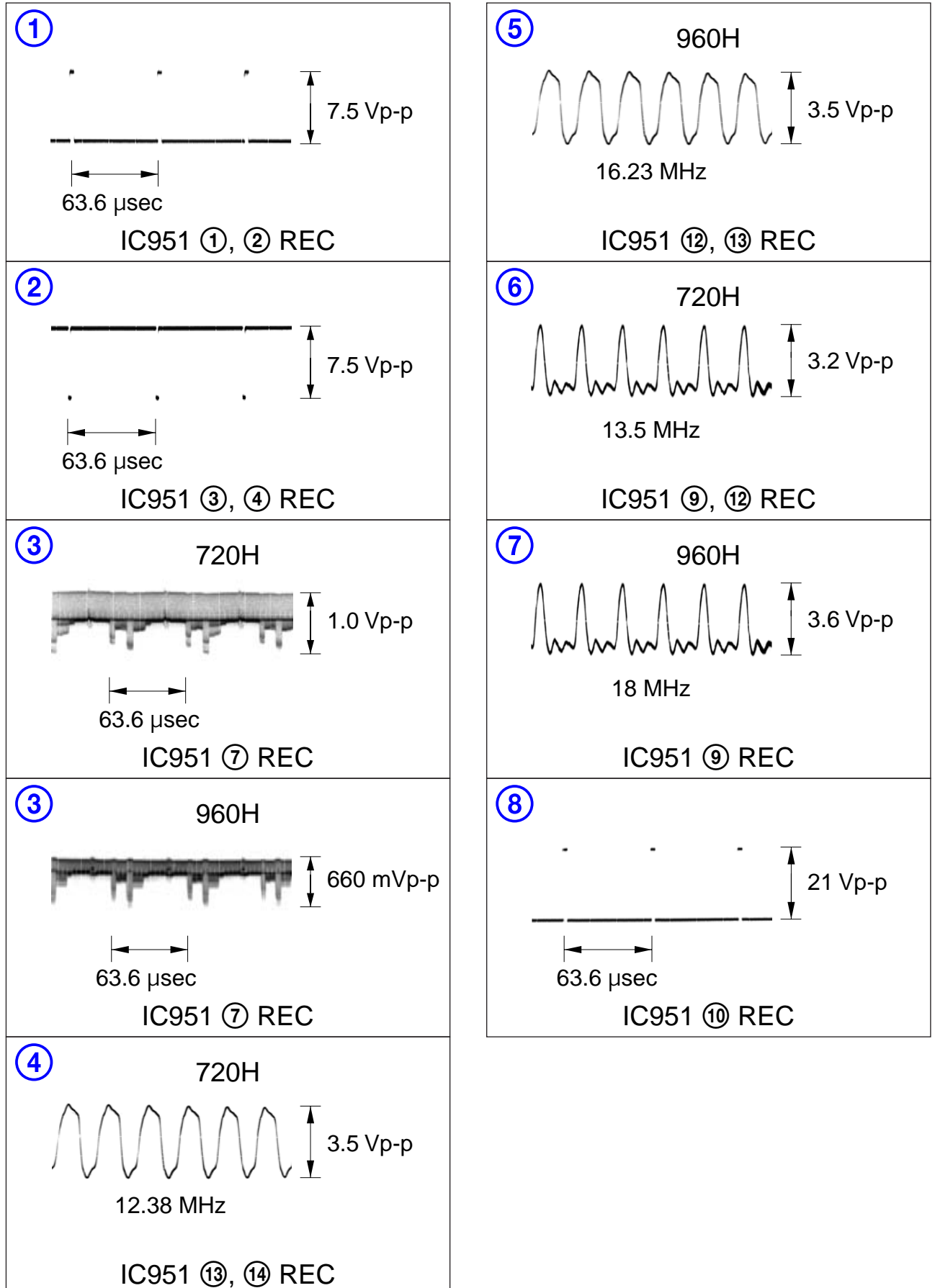
CD-418 BOARD

4-4. WAVEFORMS

720 H : TRV350/TRV351

960 H : TRV345E/TRV355E/TRV356E

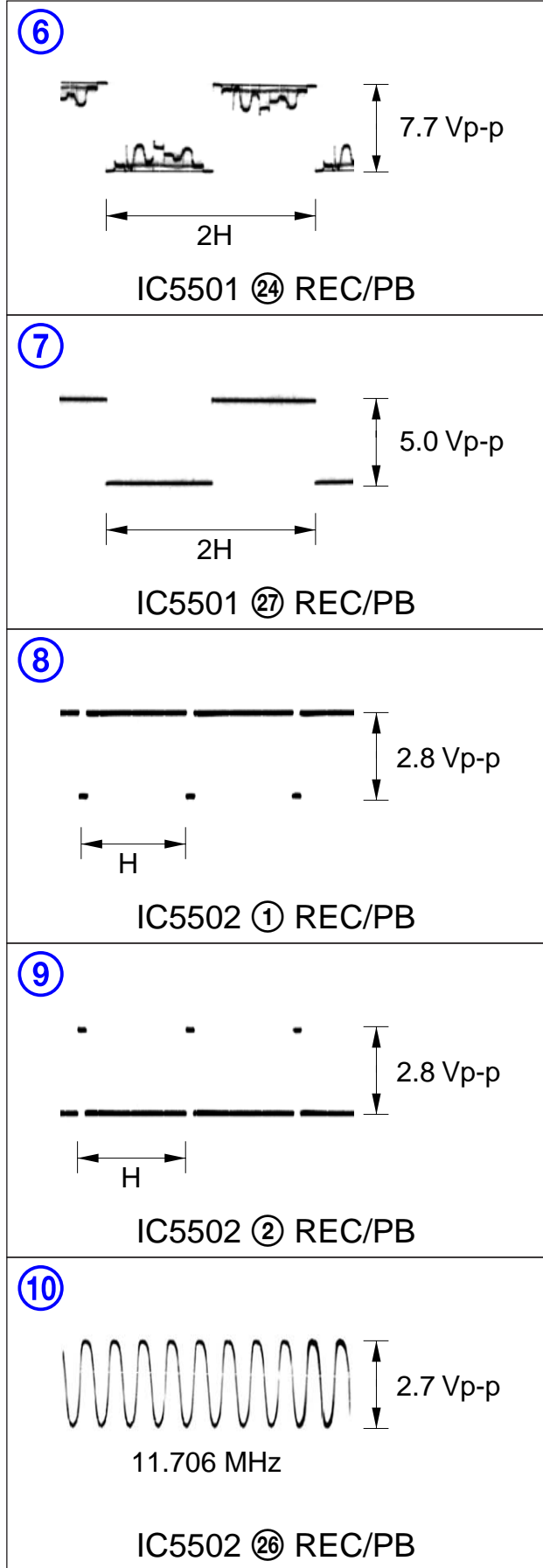
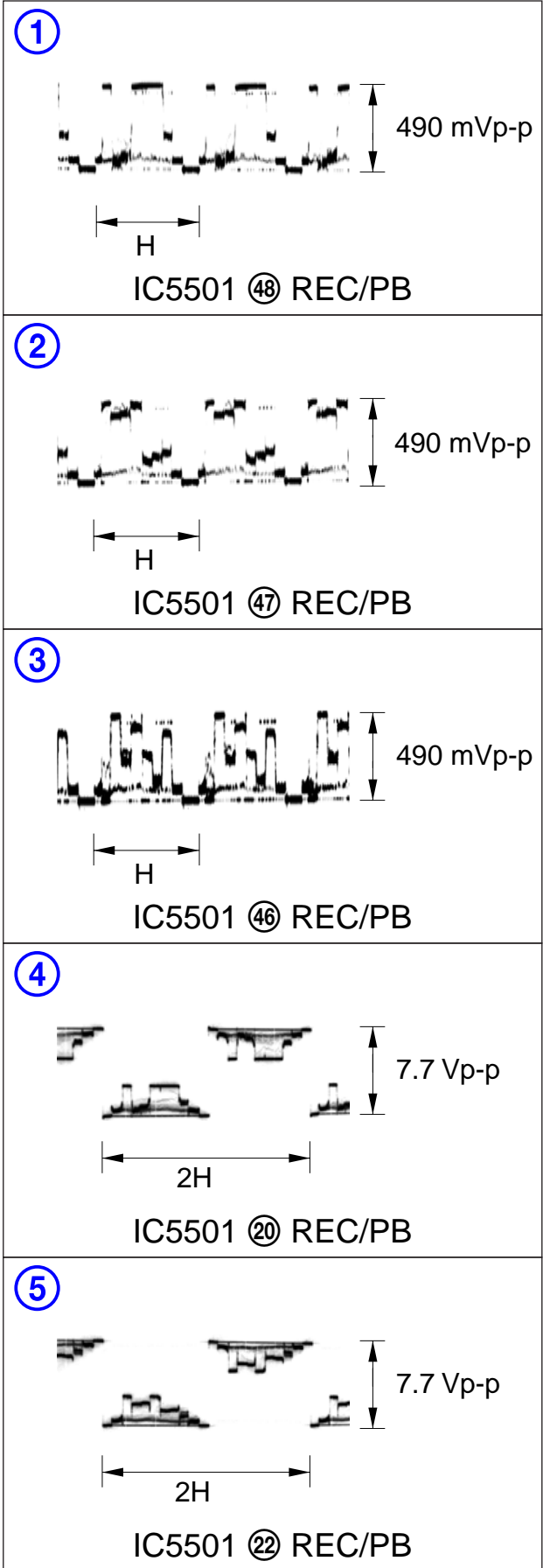
CD-418 BOARD



Waveforms of the VC-305 board are not shown.
Pages from 4-82 to 4-87 are not shown.



PD-181 BOARD (1/2)

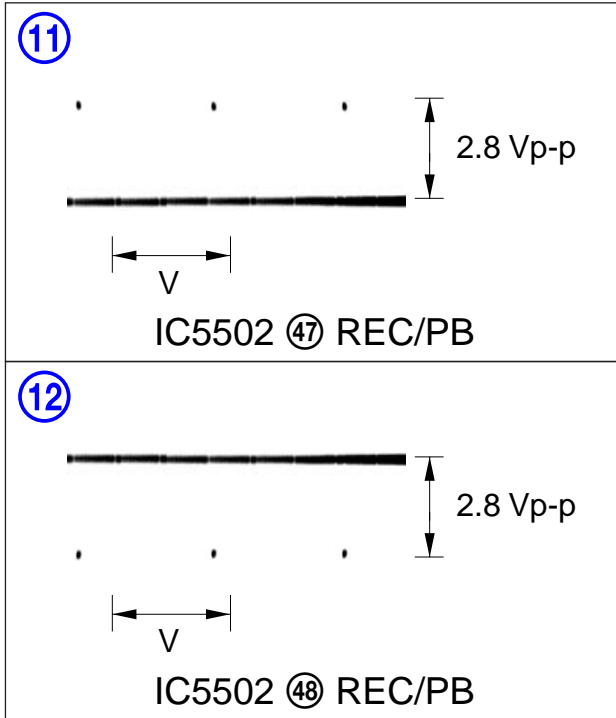




PD-181 BOARD SIDE A

PD-181 BOARD SIDE B

PD-181 BOARD (2/2)



Mounted parts location of the VC-305 board is not shown.
Pages from 4-90 to 4-91 are not shown.



4-3. PRINTED WIRING BOARDS

4-5. MOUNTED PARTS LOCATION

no mark : side A

* mark : side B

PD-181 BOARD

C5501 C-2
 C5504 C-4
 C5505 C-3
 C5506 C-3
 C5507 C-3
 C5509 C-2
 C5510 C-3
 C5511 C-4
 C5512 C-4
 C5515 C-4
 C5516 B-4
 C5517 B-3
 C5518 B-3
 C5519 B-3
 C5527 C-3
 C5532 C-3
 C5533 A-4
 C5534 A-5
 C5536 B-5
 C5540 B-5
 C5603 A-3
 C5604 C-5
 C5605 C-5
 C5606 A-1
 C5607 A-4

 CN5501 A-5
 CN5502 B-2
 CN5601 A-1
 CN5701 B-1
 CN5702 D-1

 D5502 B-4
 D5503 A-5
 D5601 C-5

 IC5501 C-3
 IC5502 C-4
 IC5601 D-5
 IC5602 C-5

 L5501 C-2
 L5505 B-4
 L5601 A-4
 L5602 A-3

 Q5503 B-5
 Q5504 B-5
 Q5505 B-5
 Q5506 B-5
 Q5508 B-5
 Q5601 C-5
 Q5604 A-3

 R5501 C-3
 R5503 C-3
 R5505 C-3
 R5506 C-4
 R5507 C-4
 R5508 C-4
 R5509 C-4
 R5510 C-4
 R5511 C-4
 R5512 C-4
 R5522 B-3
 R5542 C-2
 R5551 C-5
 R5572 B-5
 R5573 B-5
 R5574 B-5
 R5575 B-5
 R5576 B-5
 R5577 B-5
 R5578 B-5
 R5579 B-5
 R5588 A-4
 R5590 C-4
 R5592 B-5
 R5602 C-5
 R5603 C-5
 R5606 C-5
 R5607 C-5
 R5610 A-3

SI-036 BOARD

C751 B-1
 * C752 C-1
 C755 C-2
 * C757 B-2
 * C758 B-2

 CN751 A-1
 CN753 C-1
 CN754 C-2

 D752 C-2
 D753 C-2
 * D754 C-1
 D756 B-3

 * FB753 B-1

 IC751 C-2

 L751 D-2

 Q751 B-3
 Q752 C-2
 * Q753 C-2

 * R754 C-2
 * R755 C-2
 R756 C-3
 R757 B-3
 R760 C-2
 * R761 C-1
 R762 D-2

 * SE751 B-1
 * SE752 B-2

 * VDR751 B-2
 * VDR752 B-2
 VDR753 B-1

COVER

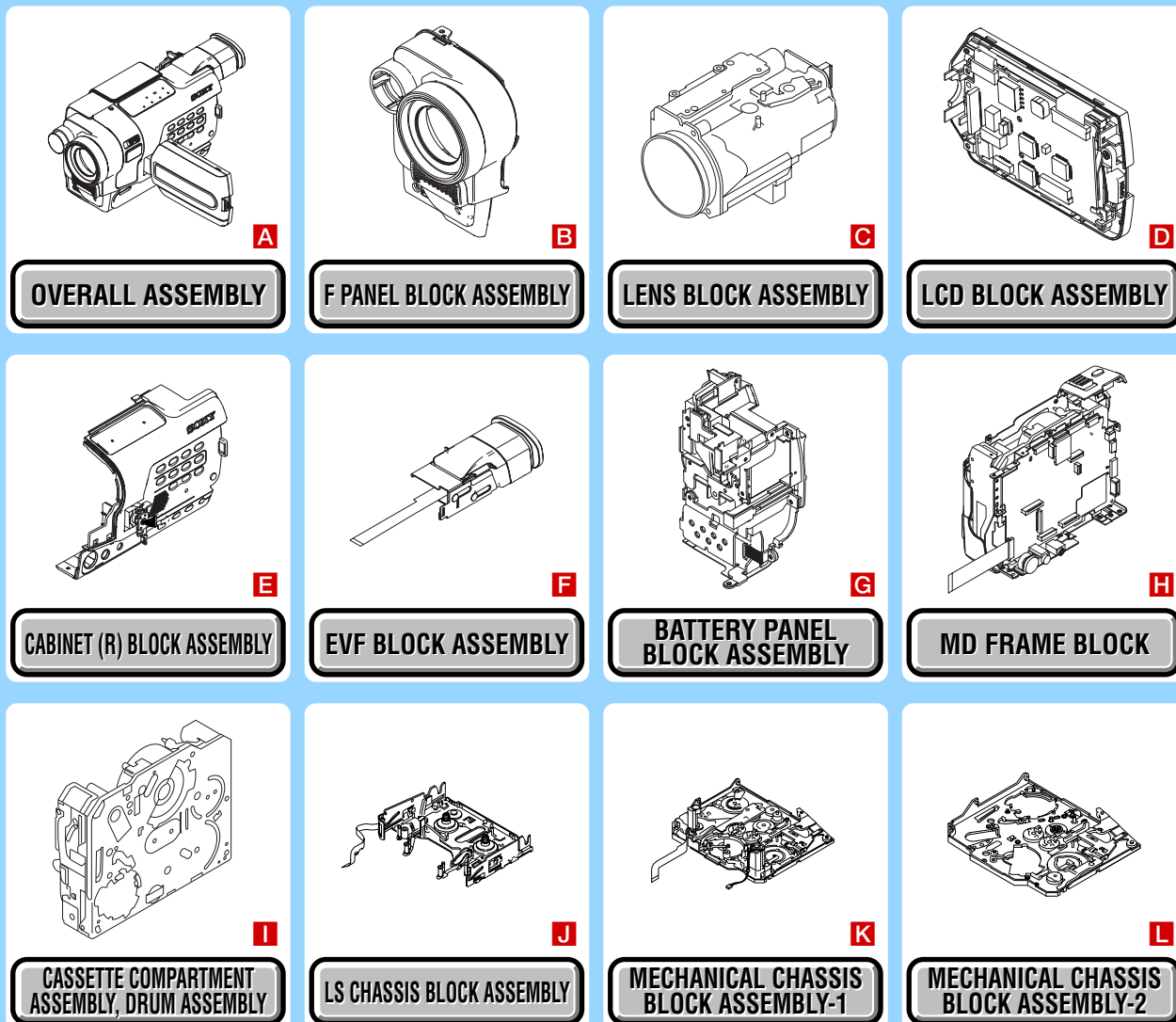
NOTE

5. REPAIR PARTS LIST

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

Link

EXPLODED VIEWS



Link

ELECTRICAL PARTS LIST

ACCESSORIES

• CD-418 BOARD C	• FP-302 FLEXIBLE BOARD J	• PD-181 BOARD D
• FP-300 FLEXIBLE BOARD J	• LB-083 BOARD F	• SI-036 BOARD B
• FP-301 FLEXIBLE BOARD J	• LS-057 BOARD J	



5. REPAIR PARTS LIST

SECTION 5 REPAIR PARTS LIST

NOTE:

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

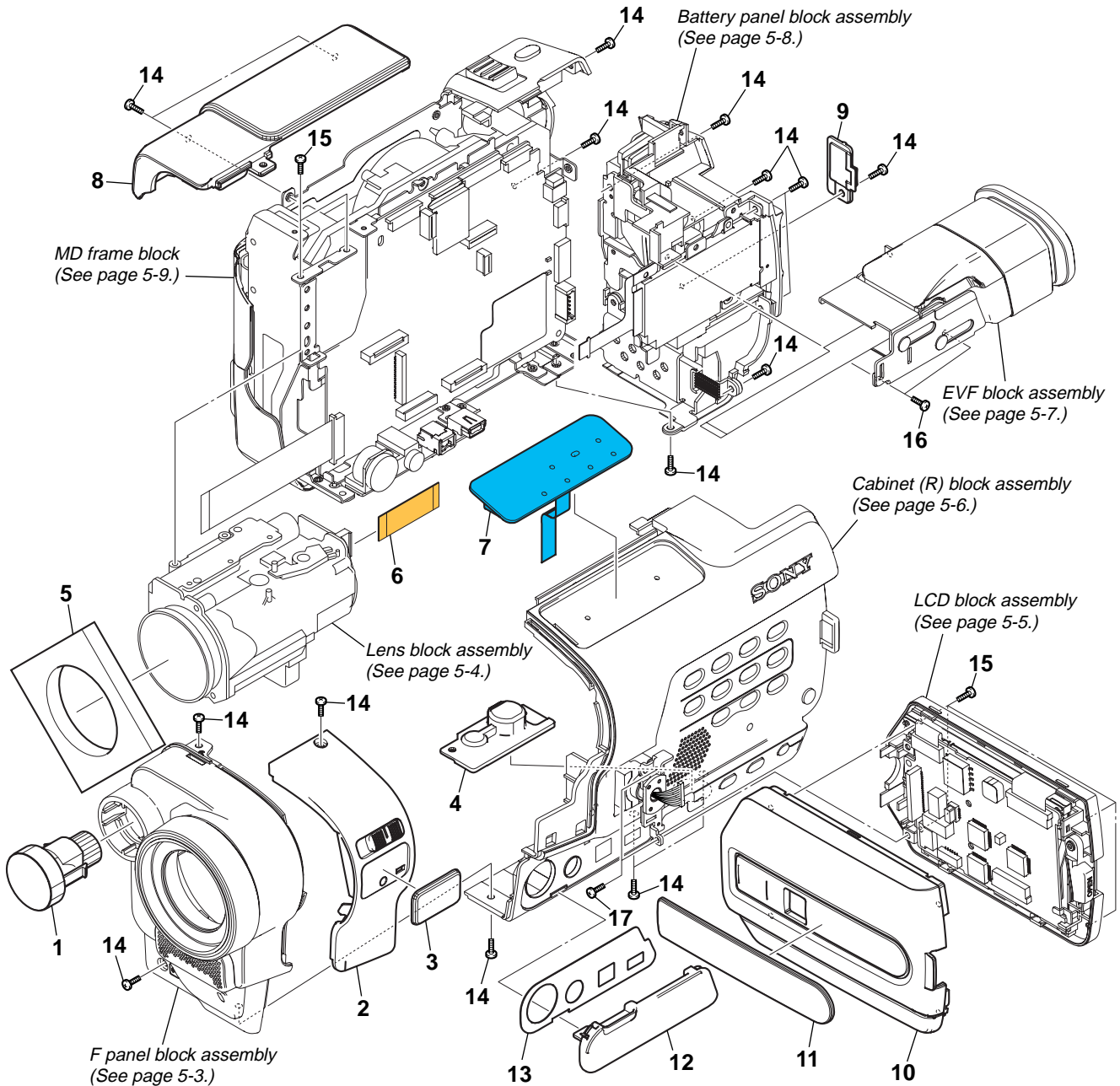
Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



5. REPAIR PARTS LIST

5-1. EXPLODED VIEWS

5-1-1. OVERALL ASSEMBLY



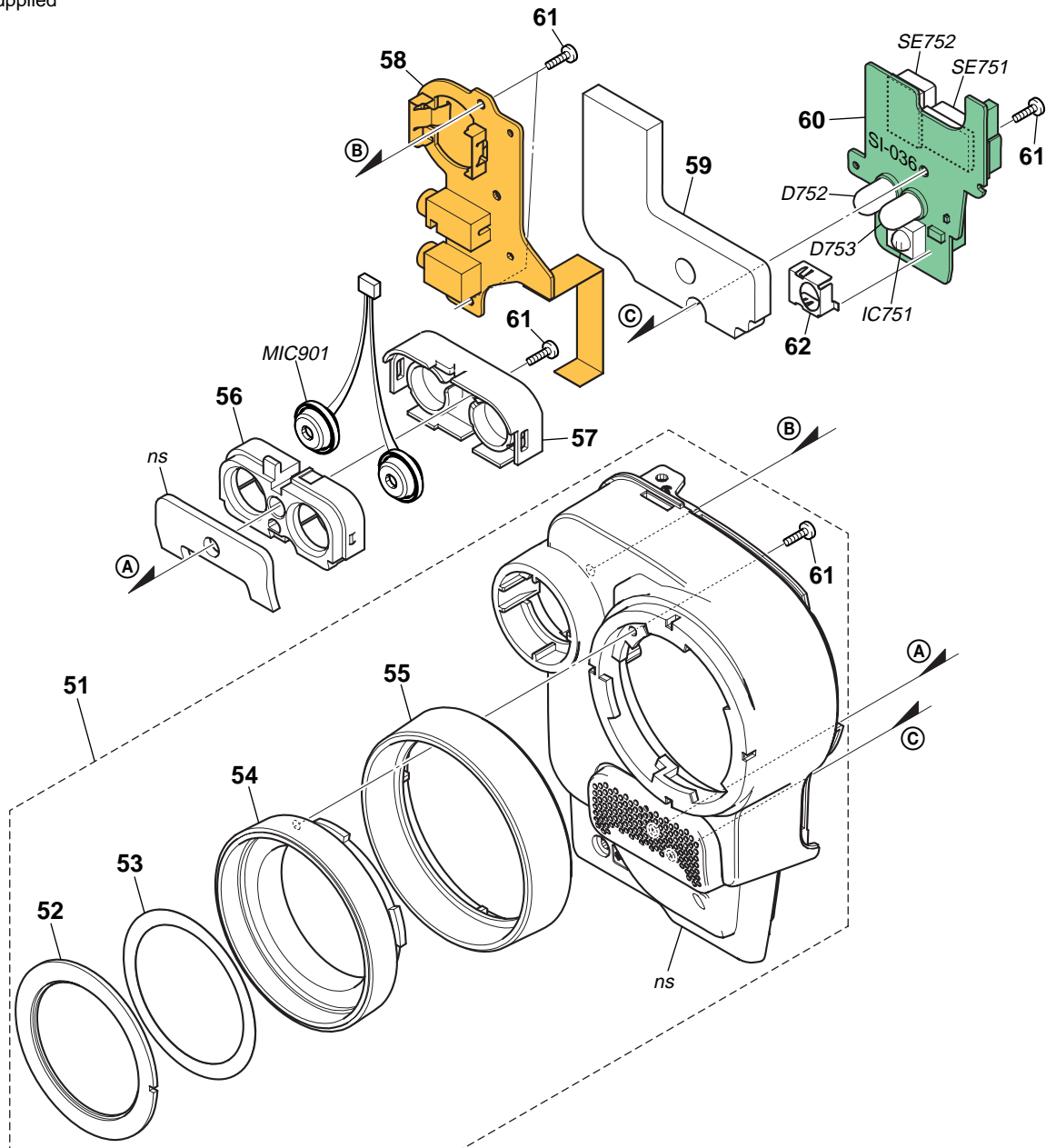
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
1	1-518-787-21	LIGHT, VIDEO	9	3-079-007-01	LID (30), CPC
2	X-3953-065-1	RING (33) ASSY, ORNAMENTAL (TRV345E)	10	3-079-492-12	CABINET (C) (36), P
2	X-3953-070-1	RING (36) ASSY, ORNAMENTAL (TRV350/TRV351/TRV355E/TRV356E)	11	X-3953-040-1	COVER (36) ASSY, CPC (TRV355E)
3	3-079-010-21	PLATE (30), MAGNIFICATION	11	X-3953-051-1	COVER (36) ASSY, CPC (TRV350)
4	3-079-012-01	SCREW (30), TRIPOD	11	X-3953-052-1	COVER (36) ASSY, CPC (TRV351)
5	3-080-217-01	CUSHION (30), LENS	11	X-3953-053-1	COVER (36) ASSY, CPC (TRV356E)
6	1-683-163-21	FP-400 FLEXIBLE BOARD	11	X-3953-054-1	COVER (36) ASSY, CPC (TRV345E)
7	1-477-672-51	SWITCH BLOCK, CONTROL (FK-3000) (TRV350/TRV351)	12	3-079-008-01	COVER (30), JACK
7	1-477-672-61	SWITCH BLOCK, CONTROL (FK-3000) (TRV345E/TRV355E/TRV356E)	13	3-079-396-51	SHEET (30), JACK
8	3-079-011-01	CABINET UPPER (30)	14	3-067-347-01	MI SCREW M2 (H)
			15	3-065-567-11	TAPPING (M1.7)
			16	3-078-889-11	SCREW (M1.7)
			17	3-065-567-01	TAPPING (M1.7)



5. REPAIR PARTS LIST

5-1-2. F PANEL BLOCK ASSEMBLY

ns: not supplied



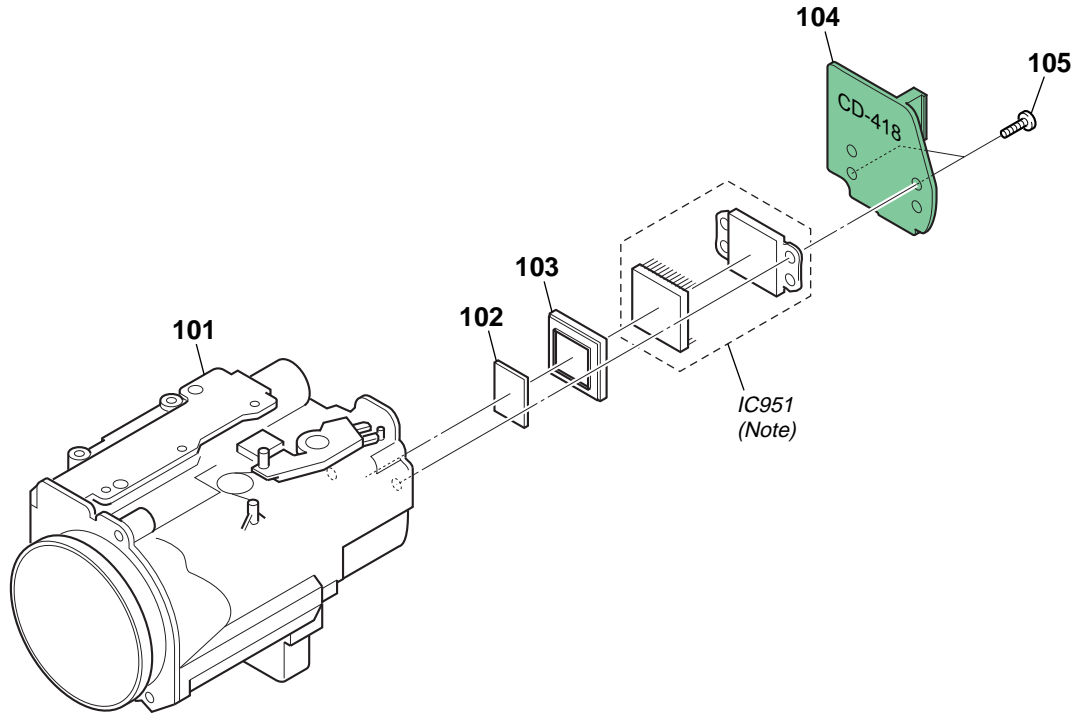
Ref. No.	Part No.	Description
51	X-3952-976-1	PANEL (36) ASSY, FRONT
52	3-079-000-01	PLATE (30), NAME
53	3-079-001-01	SHEET (30), ADHESIVE, PLATE
54	3-078-999-01	SCREW (30), FILTER
55	3-080-197-01	RING (36), FRONT
56	3-078-997-11	HOLDER (30), MICROPHONE
57	3-078-996-01	RETAINER (30), MICROPHONE
58	1-686-858-21	FP-575 FLEXIBLE BOARD
59	3-080-231-01	SHEET (30), MICROPHONE

Ref. No.	Part No.	Description
60	A-7013-272-A	SI-036 BOARD, COMPLETE
61	3-065-567-01	TAPPING (M1.7)
62	3-079-004-01	CASE (30), SHIELD, SI
D752	8-719-060-65	DIODE DCC3810 (IR EMITTER)
D753	8-719-060-65	DIODE DCC3810 (IR EMITTER)
IC751	6-701-681-01	IC RPM7140-V4
MIC901	1-542-477-11	MICROPHONE
SE751	1-803-042-31	SENSOR, ANGULAR VELOCITY (PITCH)
SE752	1-803-042-41	SENSOR, ANGULAR VELOCITY (YAW)



5. REPAIR PARTS LIST

5-1-3. LENS BLOCK ASSEMBLY



(Note) Be sure to read "Precautions for Replacement of CCD Imager" on page 4-8 when changing the CCD imager.

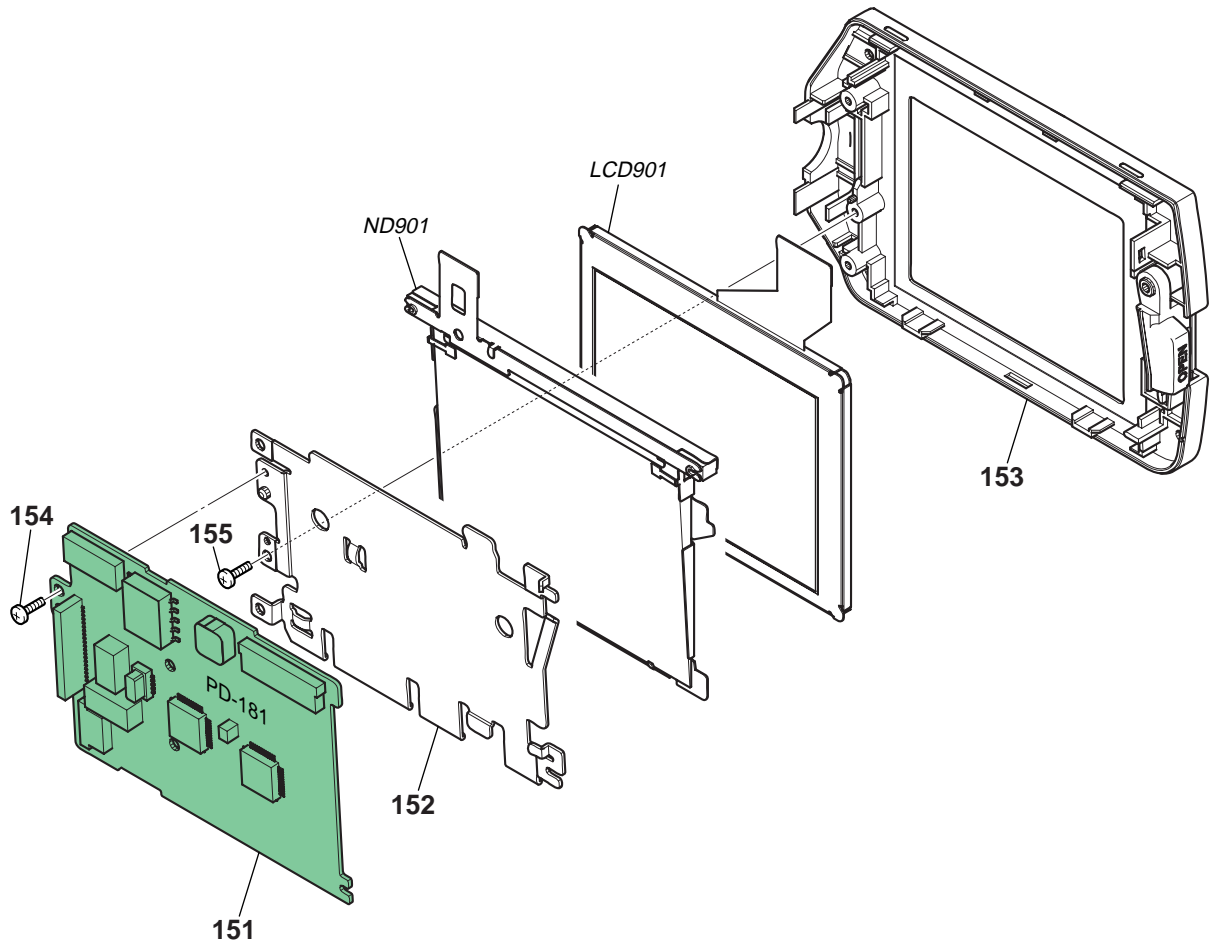
Ref. No.	Part No.	Description
101	8-848-765-01	DEVICE, LENS LSV-820A (TRV350/TRV351)
101	8-848-768-01	DEVICE, LENS LSV-820B (TRV345E/TRV355E/TRV356E)
102	1-758-553-11	FILTER BLOCK, OPTICAL (TRV345E/TRV355E/TRV356E)
102	1-758-554-11	FILTER BLOCK, OPTICAL (TRV350/TRV351)
103	3-053-973-01	RUBBER (W), SEAL

Ref. No.	Part No.	Description
104	A-7013-263-A	CD-418 BOARD, COMPLETE (TRV350/TRV351)
104	A-7013-270-A	CD-418 BOARD, COMPLETE (TRV345E/TRV355E/TRV356E)
105	3-065-567-01	TAPPING (M1.7)
IC951	A-7013-400-A	CCD BLOCK ASSY (CCD IMAGER) (Note) (TRV350/TRV351)
IC951	A-7013-403-A	CCD BLOCK ASSY (CCD IMAGER) (Note) (TRV345E/TRV355E/TRV356E)



5. REPAIR PARTS LIST

5-1-4. LCD BLOCK ASSEMBLY



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

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

Ref. No.	Part No.	Description
151	A-7013-269-A	PD-181 BOARD, COMPLETE
152	3-079-032-01	FRAME (30), P
153	X-3952-955-2	CABINET (M) (30) ASSY, P
154	3-078-889-11	SCREW (M1.7)

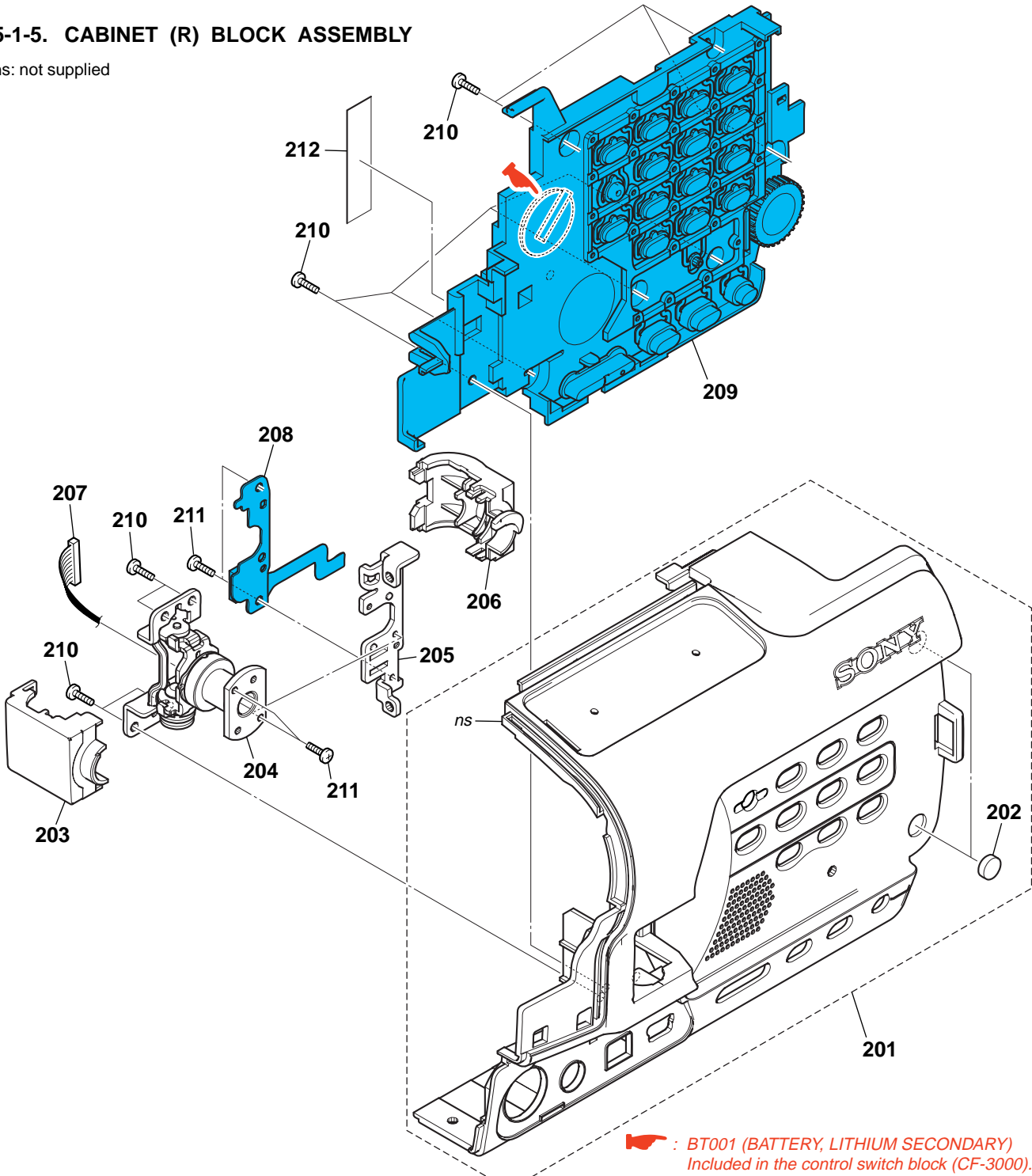
Ref. No.	Part No.	Description
155	3-065-567-01	TAPPING (M1.7)
LCD901	8-753-052-12	ACX307AKD-1
\triangle ND901	1-518-796-11	TUBE, FLUORESCENT, COLD CATHODE



5. REPAIR PARTS LIST

5-1-5. CABINET (R) BLOCK ASSEMBLY

ns: not supplied



Ref. No.	Part No.	Description
201	X-3953-038-2	CABINET (R) (33) ASSY (TRV345E)
201	X-3953-039-2	CABINET (R) (36) ASSY (TRV350/TRV351/TRV355E/TRV356E)
202	3-959-978-02	CUSHION, PANEL
203	3-079-059-11	COVER (C) (30), HINGE
204	X-3952-973-1	HINGE (30) ASSY
205	3-079-057-01	BRACKET (30), HINGE
206	3-079-058-01	COVER (M) (30), HINGE
207	1-961-989-11	HARNESS (PD-118)

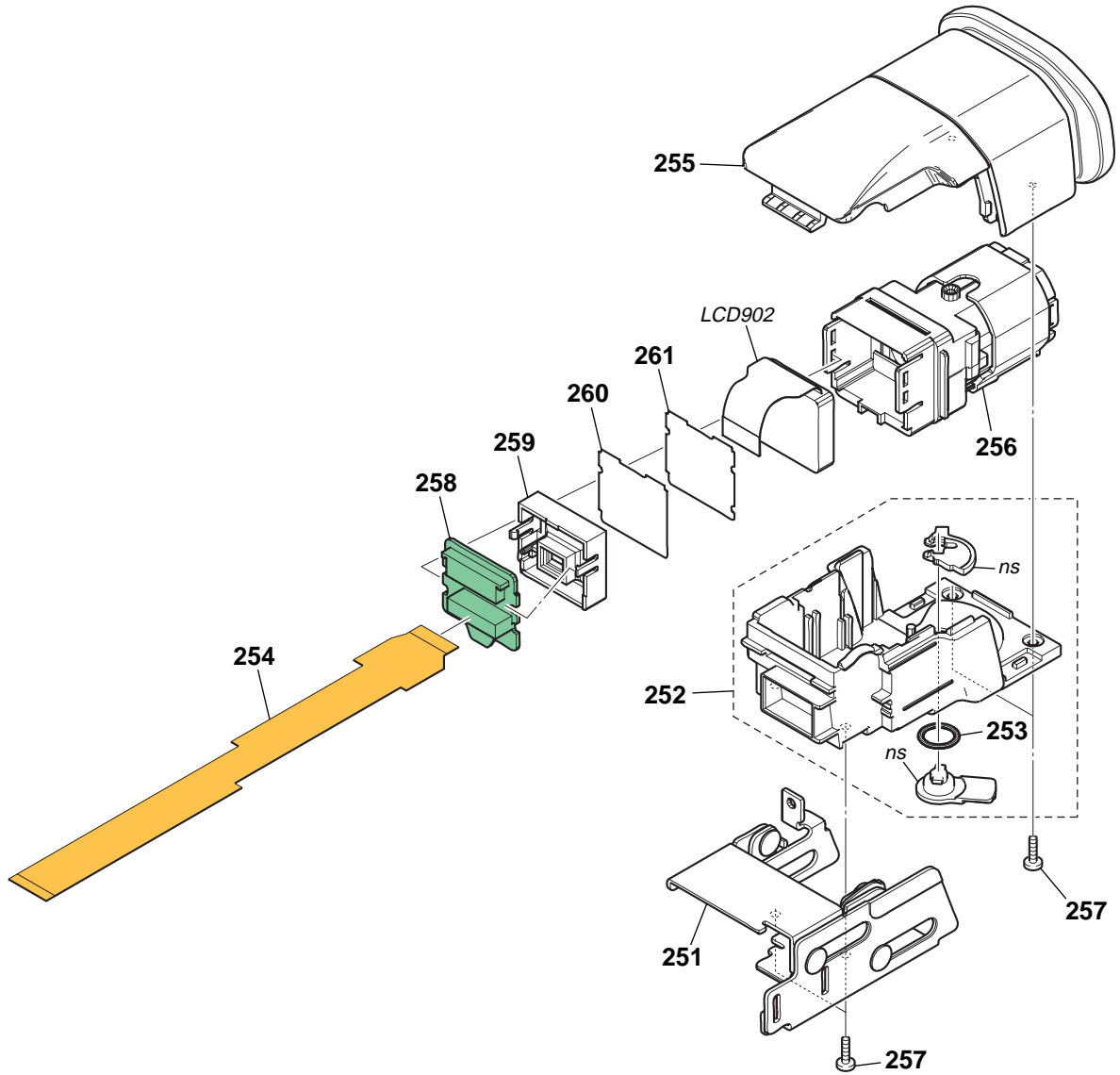
Ref. No.	Part No.	Description
208	1-477-675-11	SWITCH BLOCK, CONTROL (PR-3000)
209	1-477-673-21	SWITCH BLOCK, CONTROL (CF-3000) (TRV345E)
209	1-477-673-31	SWITCH BLOCK, CONTROL (CF-3000) (TRV350/TRV351/TRV355E/TRV356E)
210	3-080-205-21	SCREW, TAPPING, P2
211	3-989-735-41	SCREW (M1.7), LOCK ACE, P2
212	3-941-343-21	TAPE (A)



5. REPAIR PARTS LIST

5-1-6. EVF BLOCK ASSEMBLY

ns: not supplied



Ref. No.	Part No.	Description
251	X-3952-968-1	HINGE (30) ASSY, VF
252	X-3952-969-1	CABINET (LOWER) (30) ASSY, EVF
253	3-950-044-01	RING, O
254	1-686-854-11	FP-571 FLEXIBLE BOARD
255	X-3952-957-1	CABINET (UPPER) (30) ASSY, EVF
256	X-3952-214-1	LENS (B) ASSY, VF

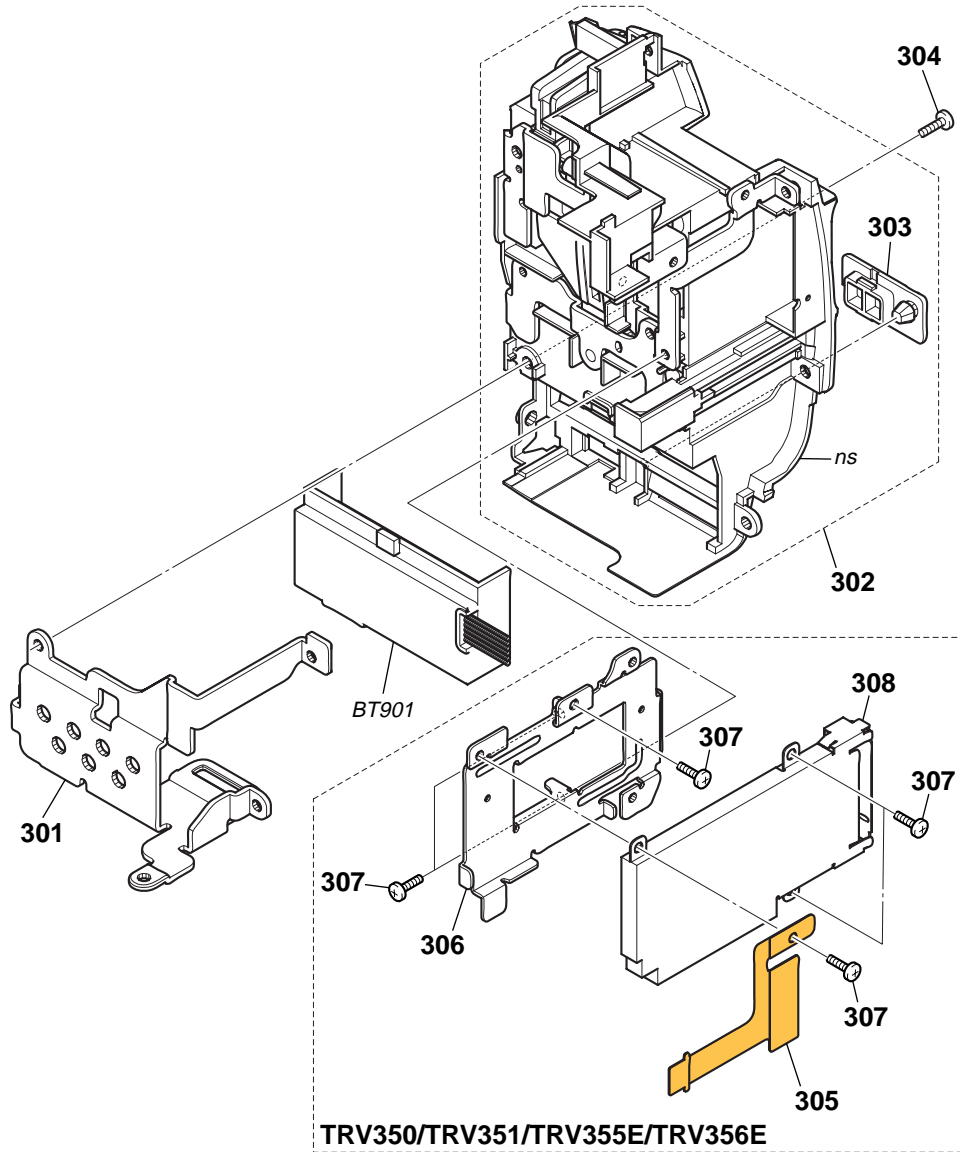
Ref. No.	Part No.	Description
257	3-065-567-01	TAPPING (M1.7)
258	A-7013-271-A	LB-083 BOARD, COMPLETE
259	3-065-058-01	GUIDE, LAMP
260	3-072-211-01	ILLUMINATOR
261	3-072-210-01	SHEET, PRISM
LCD902	8-753-028-49	LCX032AP-5



5. REPAIR PARTS LIST

5-1-7. BATTERY PANEL BLOCK ASSEMBLY

ns: not supplied



Ref. No.	Part No.	Description
301	3-079-039-03	SHEET METAL (LOWER), STRAP (30)
302	X-3952-954-1	PANEL (30) ASSY, BATTERY (TRV345E)
302	X-3953-082-1	PANEL (36) ASSY, BATTERY (TRV350/TRV351/TRV355E/TRV356E)
303	3-072-305-01	LID (2500), JACK
304	3-067-347-01	MI SCREW M2 (H)
305	1-686-852-11	FP-578 FLEXIBLE BOARD (TRV350/TRV351/TRV355E/TRV356E)

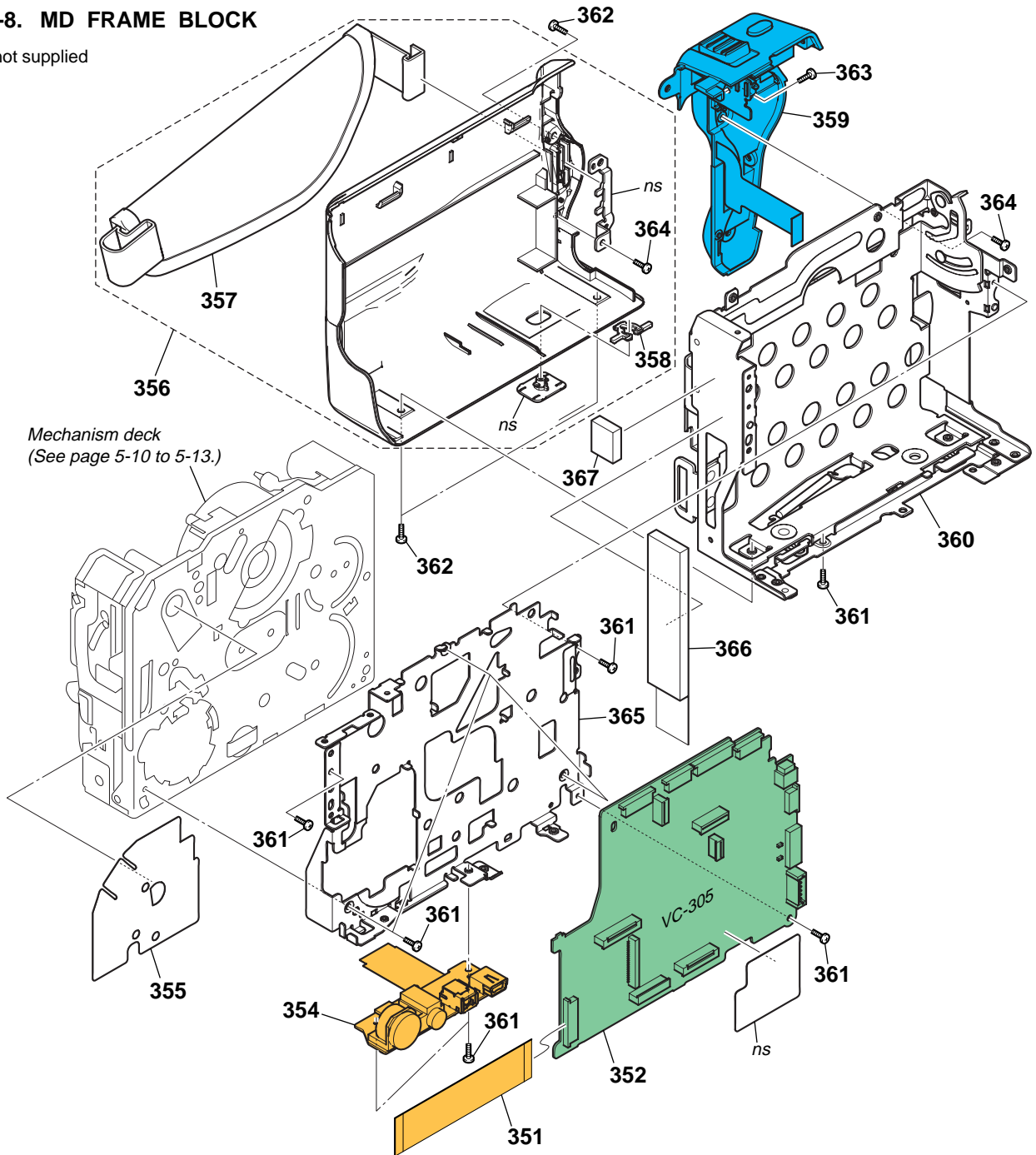
Ref. No.	Part No.	Description
306	3-079-033-01	HOLDER (30), MS (TRV350/TRV351/TRV355E/TRV356E)
307	3-078-889-11	SCREW (M1.7)
308	1-816-271-11	CONNECTOR, MEMORY STICK 10P (TRV350/TRV351/TRV355E/TRV356E)
BT901	1-694-772-11	TERMINAL BOARD, BATTERY



5. REPAIR PARTS LIST

5-1-8. MD FRAME BLOCK

ns: not supplied



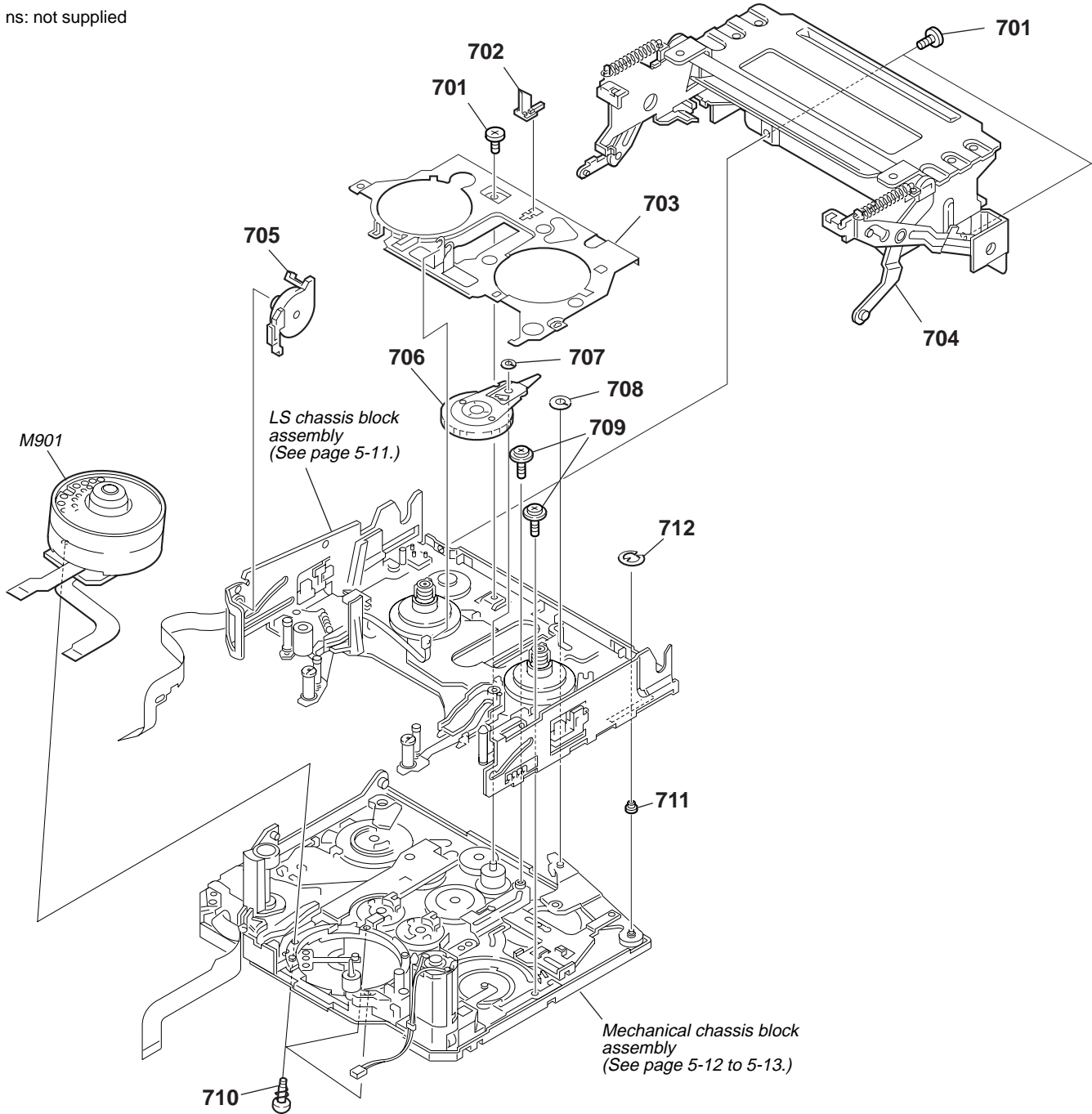
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
351	1-686-857-11	FP-574 FLEXIBLE BOARD	359	1-477-674-31	SWITCH BLOCK, CONTROL (SS-3000) (TRV345E)
352	A-7013-499-A	VC-305 BOARD, COMPLETE (SERVICE) (TRV350/TRV351)	359	1-477-674-51	SWITCH BLOCK, CONTROL (SS-3000) (TRV350/TRV351/TRV355E/TRV356E)
352	A-7013-500-A	VC-305 BOARD, COMPLETE (SERVICE) (TRV355E/TRV356E)	360	X-3952-970-1	FRAME ASSY (30), CS
352	A-7013-501-A	VC-305 BOARD, COMPLETE (SERVICE) (TRV345E)	361	3-078-889-11	SCREW (M1.7)
354	1-686-862-21	FP-577 FLEXIBLE BOARD	362	3-067-347-01	MI SCREW M2 (H)
355	3-066-169-01	SHEET (30), MD	363	3-080-221-21	SCREW (M2), ES LOCK
356	X-3953-081-1	CABINET (L) (33) ASSY	364	3-065-567-01	TAPPING (M1.7)
357	3-052-815-01	BELT (ES), GRIP	365	3-079-006-01	FRAME (30), MD
358	3-978-765-01	SLIDER, G LOCK	366	3-079-176-01	COVER, MD (30)
			367	3-081-243-01	SHEET (LT), RADIATION



5. REPAIR PARTS LIST

5-1-9. CASSETTE COMPARTMENT ASSEMBLY, DRUM ASSEMBLY

ns: not supplied



Ref. No.	Part No.	Description
701	3-065-932-01	PAN (2 MAIN M1.4X1.6), CAMERA
702	3-065-895-01	LEVER, REEL RELEASE
703	3-065-896-01	PLATE, BLIND
704	X-3951-298-1	CASSETTE COMPARTMENT ASSY
705	X-3951-302-1	DAMPER ASSY
706	X-3951-297-1	GEAR ASSY, R DRIVE
707	3-065-840-01	CUT (0.98X3X0.13), LUMILER (W)

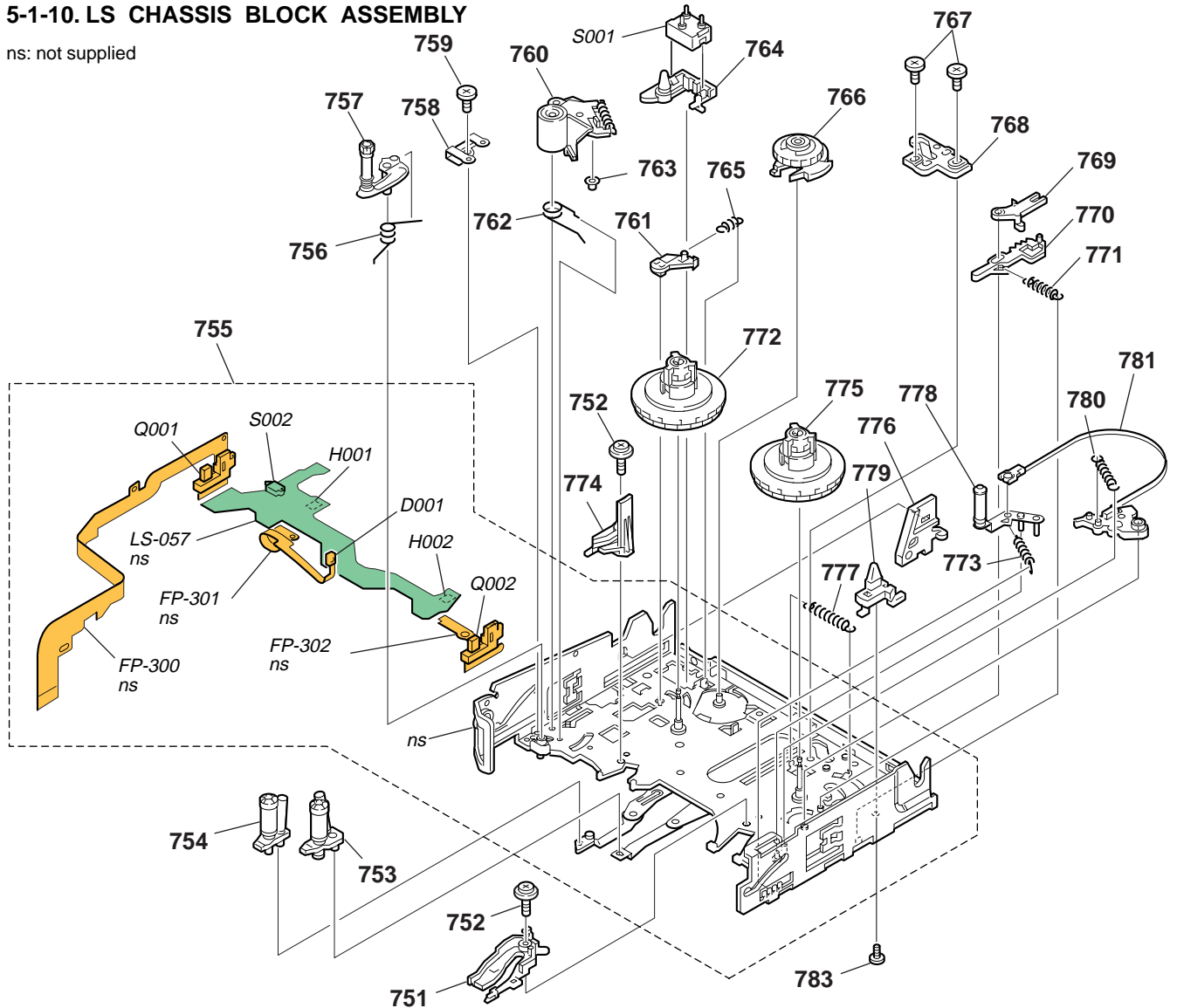
Ref. No.	Part No.	Description
708	3-065-935-01	HLC CUT 1.8X4X0.5
709	3-947-503-01	SCREW (M1.4)
710	X-3951-299-1	SCREW ASSY, DRUM FITTING
711	3-074-309-01	ROLLER A, LS GUIDE
712	7-624-101-04	STOP RING 1.2 (E TYPE)
M901	A-7048-951-A	DRUM (DKH-04A-R) (SERVICE)



5. REPAIR PARTS LIST

5-1-10. LS CHASSIS BLOCK ASSEMBLY

ns: not supplied



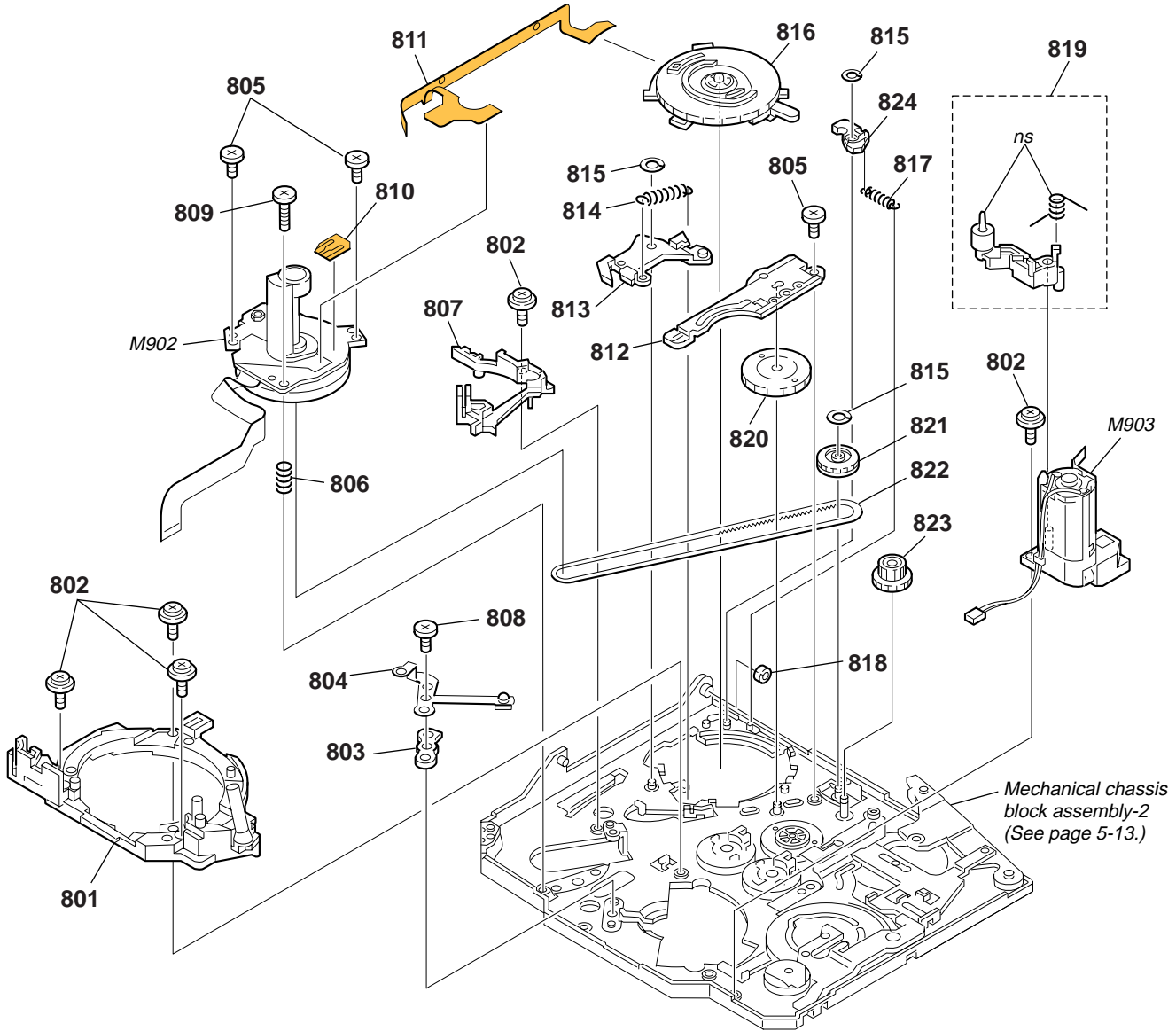
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
751	3-065-822-02	RAIL (S), GUIDE	771	3-065-830-01	SPRING, S RATCHET
752	3-947-503-01	SCREW (M1.4)	772	X-3951-288-1	TABLE (T) ASSY, REEL
753	A-7096-416-B	BASE (S) BLOCK ASSY, GUIDE	773	3-065-819-01	SPRING, TG1 ARM
754	A-7096-415-A	BASE (T) BLOCK ASSY, GUIDE	774	3-065-821-01	RAIL (T), GUIDE
755	A-7096-426-A	CHASSIS ASSY, LS	775	X-3951-289-1	TABLE (S) ASSY, REEL
756	3-065-802-01	SPRING, TG7 ARM	776	3-065-833-01	GUIDE, LOCK
757	A-7096-414-A	ARM BLOCK ASSY, TG7	777	3-065-831-01	PLATE (SPR), RE RETURN
758	3-065-801-01	RETAINER, TG7	778	X-3951-304-1	ARM ASSY, TG1
759	3-065-932-01	PAN (2 MAIN M1.4X1.6), CAMERA	779	3-065-835-01	GUIDE (S), CASSETTE
760	X-3951-303-1	ARM ASSY, PINCH	780	3-065-820-01	SPRING, RVS ARM
761	3-065-823-01	ARM, T RATCHET	781	X-3951-296-1	BAND (ASSY), BT
762	3-065-794-01	ROAD (SPR), PINCH ARM	783	3-067-167-01	SCREW (M1.4X2), CAMERA TAPPING
763	3-065-792-01	ROLLER, P LIM ARM	D001	8-719-988-42	DIODE GL453 (TAPE LED)
764	3-065-834-01	GUIDE (T), CASSETTE	H001	8-719-033-37	ELEMENT, HALL HW-105C (T REEL)
765	3-065-824-01	SPRING, T RATCHET	H002	8-719-033-37	ELEMENT, HALL HW-105C (S REEL)
766	A-7096-417-A	SOFT ASSY, T	Q001	8-729-907-25	PHOTO TRANSISTOR PT4850F (TAPE TOP)
767	3-071-650-01	SCREW (M1.7) (S)	Q002	8-729-907-25	PHOTO TRANSISTOR PT4850F (TAPE END)
768	3-065-832-01	PLATE, LS CAM	S001	1-692-614-11	SWITCH, PUSH (3 KEY) (REC PROOF)
769	3-065-828-01	ARM, S RATCHET	S002	1-572-688-11	SWITCH, PUSH LEVER (1 KEY) (C. C. LOCK)
770	3-065-829-01	PLATE, S RATCHET (RE)			



5. REPAIR PARTS LIST

5-1-11. MECHANICAL CHASSIS BLOCK ASSEMBLY-1

ns: not supplied

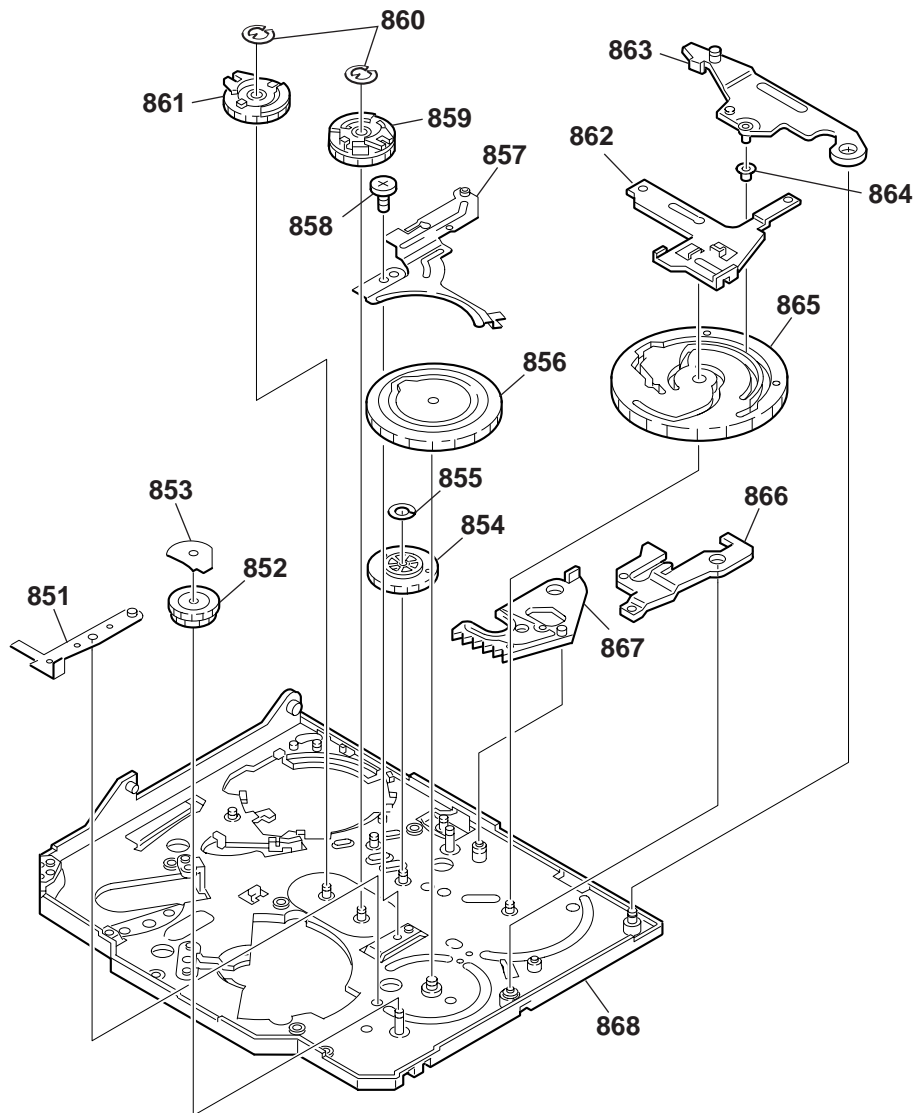


Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
801	A-7096-422-A	BASE ASSY, DRUM	814	3-065-881-01	SPRING, P PRESSURE PLATE
802	3-947-503-01	SCREW (M1.4)	815	3-065-934-01	HLW CUT 0.98X3X0.25
803	3-065-928-01	SPACER, GROUND	816	1-786-096-11	SWITCH, ROTARY
804	3-065-927-01	GROUND, DRUM	817	3-065-898-01	SPRING, EJECT ARM
805	3-065-932-01	PAN (2 MAIN M1.4X1.6), CAMERA	818	3-065-870-01	ROLLER, LS GUIDE
806	3-067-154-01	SPRING, CAPSTAN	819	A-7096-421-A	ARM ASSY, HCL
807	3-065-931-01	RAIL (T2), GUIDE	820	3-065-918-01	GEAR (2), CAM RELAY
808	X-3947-398-1	SCREW ASSY, M1.7 PW	821	A-7096-419-A	GEAR ASSY, CHANGE
809	3-065-933-01	PAN (2 MAIN 1.4X4.5), CAMERA	822	3-065-902-01	BELT, TIMING
810	1-677-049-11	FP-228 FLEXIBLE BOARD	823	3-065-905-01	GEAR, RELAY
811	1-680-434-11	FP-299 FLEXIBLE BOARD	824	3-065-882-01	ARM, EJECT
812	3-065-877-01	PLATE (T), GUIDE LOCK	M902	8-835-701-01	MOTOR, DC SCE13A/C-NP (CAPSTAN)
813	X-3951-301-1	PLATE ASSY, PINCH PRESSURE	M903	A-7096-420-A	MOTOR ASSY, LD (LOADING)



5. REPAIR PARTS LIST

5-1-12. MECHANICAL CHASSIS BLOCK ASSEMBLY-2



Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
851	3-065-920-01	ARM, HC DRIVE	860	7-624-101-04	STOP RING 1.2 (E TYPE)
852	3-065-913-01	GEAR (4), LD	861	A-7096-412-A	GEAR (T) ASSY, GUIDE
853	3-065-914-01	SHEET, COVER	862	X-3951-307-1	PLATE ASSY, M SLIDE
854	3-065-917-01	GEAR (1), CAM RELAY	863	X-3951-305-1	ARM ASSY, LS
855	3-065-934-01	HLW CUT 0.98X3X0.25	864	3-065-901-01	ROLLER, LS ARM
856	3-065-915-01	GEAR (1), CAM	865	3-065-916-01	GEAR (2), CAM
857	3-065-878-01	PLATE (S), GUIDE LOCK	866	3-065-919-01	ARM, T1 LIMITTER
858	3-065-932-01	PAN (2 MAIN M1.4X1.6), CAMERA	867	X-3951-308-1	ARM ASSY, GL
859	A-7096-413-A	GEAR (S) ASSY, GUIDE	868	X-3951-300-2	CHASSIS ASSY, MECHANICAL

DCR-TRV345E/TRV350/TRV351/TRV355E/TRV356E

CD-418 FP-300 FP-301 FP-302 LB-083 LS-057 PD-181

5-2. ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description
A-7013-263-A	CD-418	BOARD, COMPLETE (TRV350/TRV351)
A-7013-270-A	CD-418	BOARD, COMPLETE (TRV345E/TRV355E/ TRV356E) ***** (IC951 is not include in this complete board.) < CAPACITOR >
C951	1-126-395-11	ELECT 22uF 20% 16V
C953	1-128-994-21	ELECT CHIP 47uF 20% 10V
C954	1-164-858-11	CERAMIC CHIP 22PF 5% 50V (TRV345E/TRV355E/TRV356E)
C955	1-164-360-11	CERAMIC CHIP 0.1uF 16V
< CONNECTOR >		
CN951	1-779-331-11	CONNECTOR, FFC/FPC 14P < IC >
IC951	A-7013-400-A	CCD BLOCK ASSY (CCD IMAGER) (Note) (TRV350/TRV351)
IC951	A-7013-403-A	CCD BLOCK ASSY (CCD IMAGER) (Note) (TRV345E/TRV355E/TRV356E) < COIL >
L951	1-469-528-91	INDUCTOR 100uH < TRANSISTOR >
Q951	8-729-117-73	TRANSISTOR 2SC4178-F14 < RESISTOR >
R952	1-218-940-11	RES-CHIP 82 5% 1/16W (TRV350/TRV351)
R952	1-218-990-11	SHORT CHIP 0 (TRV345E/TRV355E/TRV356E)
R953	1-218-959-11	RES-CHIP 3.3K 5% 1/16W
R961	1-218-990-11	SHORT CHIP 0 (TRV350/TRV351)
R962	1-218-990-11	SHORT CHIP 0 (TRV345E/TRV355E/TRV356E)
R963	1-218-990-11	SHORT CHIP 0 (TRV350/TRV351)
R964	1-218-990-11	SHORT CHIP 0 (TRV345E/TRV355E/TRV356E)
R965	1-218-990-11	SHORT CHIP 0 (TRV350/TRV351)
R967	1-218-990-11	SHORT CHIP 0 (TRV345E/TRV355E/TRV356E)
FP-300 FLEXIBLE BOARD (Not Supplied) ***** < PHOTO TRANSISTOR >		
Q001	8-729-907-25	PHOTO TRANSISTOR PT4850F (TAPE TOP)
FP-301 FLEXIBLE BOARD (Not Supplied) ***** < DIODE >		
D001	8-719-988-42	DIODE GL453S (TAPE LED)

Ref. No.	Part No.	Description
FP-302 FLEXIBLE BOARD (Not Supplied) ***** < PHOTO TRANSISTOR >		
Q002	8-729-907-25	PHOTO TRANSISTOR PT4850F (TAPE END)
A-7013-271-A LB-083 BOARD, COMPLETE ***** < CAPACITOR >		
C701	1-164-505-11	CERAMIC CHIP 2.2uF 16V < CONNECTOR >
CN701	1-779-334-11	CONNECTOR, FFC/FPC 20P
CN702	1-691-354-21	CONNECTOR, FFC/FPC (ZIF) 16P < DIODE >
D701	8-719-082-33	DIODE NSCW100-T38 (BACKLIGHT)
D702	6-500-506-01	DIODE TLRMV1021 (T15SOY, F) (TALLY) < IC >
IC701	8-759-581-11	IC NJM2125F (TE2) < TRANSISTOR >
Q701	8-759-054-48	TRANSISTOR UP046001008S0 < RESISTOR >
R701	1-208-941-11	METAL CHIP 180K 0.5% 1/16W
R702	1-208-719-11	METAL CHIP 33K 0.5% 1/16W
R703	1-218-956-11	RES-CHIP 1.8K 5% 1/16W
R704	1-211-977-11	METAL CHIP 22 0.5% 1/10W
LS-057 BOARD (Not Supplied) ***** < HALL ELEMENT >		
H001	8-719-033-37	ELEMENT, HALL HW-105C (T REL)
H002	8-719-033-37	ELEMENT, HALL HW-105C (S REL) < SWITCH >
S001	1-692-614-11	SWITCH, PUSH (3 KEY) (REC PROOF)
S002	1-572-688-11	SWITCH, PUSH LEVER (1 KEY) (C. C. LOCK)
A-7013-269-A PD-181 BOARD, COMPLETE ***** < CAPACITOR >		
C5501	1-119-750-11	TANTAL. CHIP 22uF 20% 6.3V
C5504	1-164-943-11	CERAMIC CHIP 0.01uF 10% 16V
C5505	1-164-943-11	CERAMIC CHIP 0.01uF 10% 16V
C5506	1-164-943-11	CERAMIC CHIP 0.01uF 10% 16V
C5507	1-164-943-11	CERAMIC CHIP 0.01uF 10% 16V
C5509	1-110-457-11	ELECT CHIP 3.3uF 20% 25V

(Note) Be sure to read "Precautions for Replacement of CCD Imager" on page 4-8 when changing the CCD imager.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
C5510	1-164-943-11	CERAMIC CHIP 0.01uF 10% 16V	R5508	1-218-975-11	RES-CHIP 68K 5% 1/16W
C5511	1-164-739-11	CERAMIC CHIP 560PF 5% 50V	R5509	1-218-969-11	RES-CHIP 22K 5% 1/16W
C5512	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V	R5510	1-218-975-11	RES-CHIP 68K 5% 1/16W
C5515	1-164-937-11	CERAMIC CHIP 0.001uF 10% 50V	R5511	1-218-989-11	RES-CHIP 1M 5% 1/16W
C5516	1-164-870-11	CERAMIC CHIP 68PF 5% 50V	R5512	1-218-977-11	RES-CHIP 100K 5% 1/16W
C5517	1-127-760-11	CERAMIC CHIP 4.7uF 10% 6.3V	R5522	1-218-971-11	RES-CHIP 33K 5% 1/16W
C5518	1-127-760-11	CERAMIC CHIP 4.7uF 10% 6.3V	R5542	1-216-864-11	METAL CHIP 0 5% 1/10W
C5519	1-127-760-11	CERAMIC CHIP 4.7uF 10% 6.3V	R5551	1-218-973-11	RES-CHIP 47K 5% 1/16W
C5527	1-164-943-11	CERAMIC CHIP 0.01uF 10% 16V	R5572	1-218-965-11	RES-CHIP 10K 5% 1/16W
C5532	1-109-982-11	CERAMIC CHIP 1uF 10% 10V	R5573	1-218-965-11	RES-CHIP 10K 5% 1/16W
C5533	1-115-566-11	CERAMIC CHIP 4.7uF 10% 10V	R5574	1-208-957-11	RES-CHIP 820K 5% 1/16W
C5534	1-109-982-11	CERAMIC CHIP 1uF 10% 10V	R5575	1-218-975-11	RES-CHIP 68K 5% 1/16W
C5536	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V	R5576	1-218-989-11	RES-CHIP 1M 5% 1/16W
C5540	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	R5577	1-218-973-11	RES-CHIP 47K 5% 1/16W
C5603	1-164-657-11	CERAMIC CHIP 0.015uF 10% 50V	R5578	1-218-966-11	RES-CHIP 12K 5% 1/16W
C5604	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V	R5579	1-218-979-11	RES-CHIP 150K 5% 1/16W
C5605	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V	R5588	1-218-977-11	RES-CHIP 100K 5% 1/16W
△ C5606	1-100-371-11	CERAMIC CHIP 12PF 5% 3.15KV	R5590	1-218-990-11	SHORT CHIP 0
C5607	1-115-566-11	CERAMIC CHIP 4.7uF 10% 10V	R5592	1-218-953-11	RES-CHIP 1K 5% 1/16W
< CONNECTOR >			R5602	1-218-980-11	RES-CHIP 180K 5% 1/16W
CN5501	1-815-031-11	CONNECTOR, FFC/FPC (ZIF) 24P	R5603	1-218-969-11	RES-CHIP 22K 5% 1/16W
* CN5502	1-573-984-11	CONNECTOR, BOARD TO BOARD 10P	R5606	1-218-969-11	RES-CHIP 22K 5% 1/16W
CN5601	1-764-709-11	CONNECTOR, FFC/FPC (LIF) 10P	R5607	1-218-949-11	RES-CHIP 470 5% 1/16W
CN5701	1-794-998-31	PIN, CONNECTOR 20P	R5610	1-216-824-11	METAL CHIP 1.8K 5% 1/10W
CN5702	1-816-176-11	CONNECTOR, FFC/FPC (ZIF) 6P	< COMPOSITION CIRCUIT BLOCK >		
< DIODE >			RB5501	1-234-372-21	RES, NETWORK 100 x4 (1005)
D5502	8-719-084-47	DIODE 1SV290 (TPL3)	RB5502	1-234-381-21	RES, NETWORK 100K x4 (1005)
D5503	8-719-050-42	DIODE RD3.3UM-T1B	RB5601	1-234-378-21	RES, NETWORK 10K x4 (1005)
D5601	8-719-073-01	DIODE MA111- (K8).S0	< TRANSFORMER >		
< IC >			△ T5601	1-435-786-31	TRANSFORMER, INVERTER
IC5501	8-759-660-93	IC RB5P004AM1	A-7013-272-A SI-036 BOARD, COMPLETE		
IC5502	8-752-407-33	IC CXD3512R-T4	*****		
IC5601	8-759-564-49	IC TC7W53FU (TE12R)	(D752, D753, IC751, SE751 and SE752 are not included in this complete board.)		
IC5602	8-759-075-70	IC TA75S393F	< CAPACITOR >		
< COIL >			C751	1-104-847-11	TANTAL. CHIP 22uF 20% 4V
L5501	1-414-756-11	INDUCTOR 47uH	C752	1-104-847-11	TANTAL. CHIP 22uF 20% 4V
L5505	1-412-949-21	INDUCTOR 6.8uH	C755	1-115-566-11	CERAMIC CHIP 4.7uF 10% 10V
L5601	1-428-878-11	INDUCTOR 82uH	C757	1-162-969-11	CERAMIC CHIP 0.0068uF 10% 25V
L5602	1-412-056-11	INDUCTOR 4.7uH	C758	1-162-969-11	CERAMIC CHIP 0.0068uF 10% 25V
< TRANSISTOR >			< CONNECTOR >		
Q5503	8-729-054-48	TRANSISTOR UP04601008S0	CN751	1-816-232-11	PIN, CONNECTOR (PC BOARD) 4P
Q5504	6-550-232-01	TRANSISTOR 2SA2029T2LQ/R	CN753	1-779-338-11	CONNECTOR, FFC/FPC 28P
Q5505	6-550-232-01	TRANSISTOR 2SA2029T2LQ/R	CN754	1-779-330-21	CONNECTOR, FFC/FPC 12P
Q5506	6-550-119-01	TRANSISTOR DTC144EMT2L	< DIODE >		
Q5508	8-729-054-48	TRANSISTOR UP04601008S0	D752	8-719-060-65	DIODE DCC3810 (IR EMITTER)
Q5601	6-550-119-01	TRANSISTOR DTC144EMT2L	D753	8-719-060-65	DIODE DCC3810 (IR EMITTER)
Q5604	6-550-065-01	TRANSISTOR CPH5504-TL-E	D754	8-719-064-07	DIODE SML-310LTT86 (TALLY)
< RESISTOR >			D756	8-719-062-16	DIODE 01ZA8.2 (TPL3)
R5501	1-218-985-11	RES-CHIP 470K 5% 1/16W			
R5503	1-218-974-11	METAL CHIP 56K 0.5% 1/16W			
R5505	1-218-967-11	RES-CHIP 15K 5% 1/16W			
R5506	1-218-958-11	RES-CHIP 2.7K 5% 1/16W			
R5507	1-218-973-11	RES-CHIP 47K 5% 1/16W			

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

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

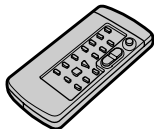
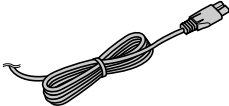
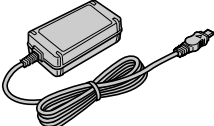
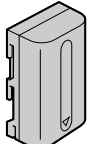
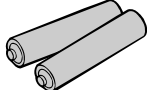
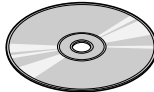

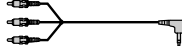
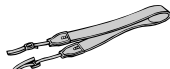
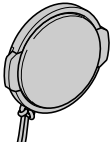

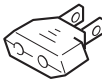

DCR-TRV345E/TRV350/TRV351/TRV355E/TRV356E

SI-036

Ref. No.	Part No.	Description
		< FERRITE BEAD >
FB753	1-414-813-11	FERRITE 0uH
		< IC >
IC751	6-701-681-01	IC RPM7140-V4
		< COIL >
L751	1-419-353-21	INDUCTOR 10uH
		< TRANSISTOR >
Q751	6-550-091-01	TRANSISTOR 2SA2058 (TE85L)
Q752	8-729-028-26	TRANSISTOR 2SK1829 (TE85L)
Q753	8-729-023-22	TRANSISTOR 2SD2114K
		< RESISTOR >
R754	1-216-806-11	METAL CHIP 56 5% 1/10W
R755	1-216-806-11	METAL CHIP 56 5% 1/10W
R756	1-216-821-11	METAL CHIP 1K 5% 1/10W
R757	1-216-821-11	METAL CHIP 1K 5% 1/10W
R760	1-216-845-11	METAL CHIP 100K 5% 1/10W
R761	1-216-819-11	METAL CHIP 680 5% 1/10W
R762	1-216-817-11	METAL CHIP 470 5% 1/10W
		< SENSOR >
SE751	1-803-042-31	SENSOR, ANGULAR VELOCITY (PITCH)
SE752	1-803-042-41	SENSOR, ANGULAR VELOCITY (YAW)
		< VARISTOR >
VDR751	1-801-862-11	VARISTOR, CHIP (1608)
VDR752	1-801-862-11	VARISTOR, CHIP (1608)
VDR753	1-801-862-11	VARISTOR, CHIP (1608)

Electrical parts list of the VC-305 board are not shown.
Pages 5-17 to 5-26 are not shown.

Checking supplied accessories.

			
Wireless Remote Commander (1) RMT-814 1-475-141-61 Lid, battery case (for RMT-814) 3-742-854-01	Power Cord (1) △ 1-575-131-11 (AEP, EE, NE, E) △ 1-696-819-21 (AUS) △ 1-776-985-11 (KR) △ 1-782-476-11 (CH) △ 1-783-374-11 (UK) △ 1-790-107-22 (US, CND) △ 1-790-932-11 (JE)	AC-L15A/L15B AC Adaptor (1) △ 1-477-533-31 (EXCEPT BR)	NP-FM30 battery pack (1) △ A-7096-387-A (US, CND) △ A-7096-388-B (EXCEPT US, CND)
			
R6 (Size AA) battery for Remote Commander (2)		CD-ROM (SPVD-010 USB Driver) (1) 3-078-942-01 (EXCEPT US, CND) 3-078-943-01 (US, CND)	USB cable (1) 1-823-931-11
			
A/V connecting cable (STEREO) (1) 1-824-097-11	Shoulder strap (1) 3-987-015-01		
			
Lens cap (1) X-3952-971-1	21-pin adaptor (1) 1-770-783-21 (AEP, UK, EE, NE)		
			
Adaptor, conversion 2P △ 1-569-008-12 (E) △ 1-569-007-11 (JE)	"Memory Stick" (1) (TRV350/TRV351/ TRV355E/TRV356E)		
		Other accessories 3-079-467-11 OPERATING INSTRUCTIONS (ENGLISH) (TRV350: US, CND, E, JE/TRV351: E) 3-079-467-21 OPERATING INSTRUCTIONS (FRENCH) (TRV350: CND) 3-079-467-31 OPERATING INSTRUCTIONS (SPANISH, PORTUGUESE) (TRV350: E, JE/TRV351: E) 3-079-467-41 OPERATING INSTRUCTIONS (TRADITIONAL CHINESE) (TRV350: E) 3-079-467-51 OPERATING INSTRUCTIONS (KOREAN) (TRV350: KR, JE) 3-079-467-61 OPERATING INSTRUCTIONS (ARABIC) (TRV350: E) 3-079-468-11 OPERATING INSTRUCTIONS (ENGLISH, FRENCH) (TRV345E: AEP/TRV355E: AEP, UK, E, AUS, JE/TRV356E) 3-079-468-21 OPERATING INSTRUCTIONS (SPANISH, PORTUGUESE) (TRV345E: AEP/TRV355E: AEP) 3-079-468-31 OPERATING INSTRUCTIONS (ITALIAN, GREECE) (TRV345E: AEP/TRV355E: AEP) 3-079-468-41 OPERATING INSTRUCTIONS (GERMAN, DUTCH) (TRV345E: AEP/TRV355E: AEP) 3-079-468-51 OPERATING INSTRUCTIONS (RUSSIAN, SWEDISH) (TRV345E: NE/TRV355E: NE, E, JE) 3-079-468-61 OPERATING INSTRUCTIONS (FINISH, DANISH) (TRV345E: NE/TRV355E: NE) 3-079-468-71 OPERATING INSTRUCTIONS (POLISH, CZECH) (TRV345E: EE/TRV355E: EE) 3-079-468-81 OPERATING INSTRUCTIONS (SLOVAKIAN, HUNGARIAN) (TRV345E: EE/TRV355E: EE) 3-079-468-91 OPERATING INSTRUCTIONS (ARABIC, PERUSSIAN) (TRV355E: E/TRV356E: E) 3-079-469-21 OPERATING INSTRUCTIONS (SIMPLIFIED CHINESE) (TRV355E: E, JE/TRV356E: CH)	

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

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

Revision History

Ver.	Date	History	Contents	S.M. Rev. issued
1.0	2002.12	Official Release	—	—