

DSC-H7/H9

SERVICE MANUAL

LEVEL 2

Ver 1.0 2007.04

Revision History

How to use
Acrobat Reader

Internal memory
ON BOARD



Photo: DSC-H7 Black Model

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

Link

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

• Precaution on Replacing the SY-177 Board

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.

DIGITAL STILL CAMERA

SONY®



Cyber-shot



SPECIFICATIONS

Camera

[System]

Image device: 7.18 mm (1/2.5 type) color CCD, Primary color filter
Total pixel number of camera: Approx. 8 286 000 pixels
Effective pixel number of camera: Approx. 8 083 000 pixels
Lens: Carl Zeiss Vario-Tessar 15× zoom lens f =5.2 – 78 mm (31 – 465 mm when converted to a 35 mm still camera) F2.7 – 4.5
Exposure control: Automatic exposure, Shutter speed priority, Aperture priority, Manual exposure, Scene Selection (9 modes)
White balance: Automatic, Daylight, Cloudy, Fluorescent 1,2,3, Incandescent, Flash, One push
File format (DCF compliant): Still images: Exif Ver. 2.21 JPEG compliant, DPOF compatible
Movies: MPEG1 compliant (Monaural)
Recording media: Internal Memory (approx. 31 MB), “Memory Stick Duo”
Flash: Flash range (ISO sensitivity (Recommended exposure value) set to ISOAUTO): approx. 0.2 to 9.8 m (7 7/8 inches to 32 feet 1 7/8 inches) (W)/ approx. 1.2 to 6.0 m (3 feet 11 1/4 inches to 19 feet 8 1/4 inches) (T)
Viewfinder: Electric viewfinder (color)

[Input and Output connectors]

Multi connector Video output
Audio output (Monaural)
USB communication
USB communication: Hi-Speed USB (USB 2.0 compliant)

[LCD screen]

LCD panel: DSC-H9: 7.5 cm (3.0 type) TFT drive
DSC-H7: 6.2 cm (2.5 type) TFT drive
Total number of dots: DSC-H9: 230 400 (960 × 240) dots
DSC-H7: 115 200 (480 × 240) dots

[Finder]

Panel: 0.5 cm (0.2 type) color
Total number of dots: Approx. 200 000 dots equivalent

[Power, general]

Power: Rechargeable battery pack NP-BG1, 3.6 V
AC-LS5K AC Adaptor (not supplied), 4.2 V
Power consumption (during shooting with the LCD screen):
DSC-H9: 1.2 W
DSC-H7: 1.1 W
Operating temperature: 0 to 40°C (32 to 104°F)
Storage temperature: -20 to +60°C (-4 to +140°F)
Dimensions: 109.5 × 83.4 × 85.7 mm (4 3/8 × 3 3/8 × 3 3/8 inches) (W/H/D, excluding protrusions) (for both DSC-H9 and DSC-H7)
Mass: DSC-H9: Approx. 546 g (1 lb 3.3 oz) (including NP-BG1 battery pack, shoulder strap, adaptor ring, lens hood and lens cap, etc.)
DSC-H7: Approx. 514 g (1 lb 2.1 oz) (including NP-BG1 battery pack, shoulder strap, adaptor ring, lens hood and lens cap, etc.)
Microphone: Monaural
Speaker: Monaural
Exif Print: Compatible
PRINT Image Matching III: Compatible
PictBridge: Compatible

BC-CSG/BC-CSGB/BC-CSGC battery charger

Power requirements: AC 100 V to 240 V, 50/60 Hz, 2 W (BC-CSG/BC-CSGC)/ 2.6 W (BC-CSGB)
Output voltage: DC 4.2 V, 0.25 A
Operating temperature: 0 to 40°C (32 to 104°F)
Storage temperature: -20 to +60°C (-4 to +140°F)
Dimensions: Approx. 62 × 24 × 91 mm (2 1/2 × 31/32 × 3 5/8 inches) (W/H/D)
Mass: Approx. 75 g (2.7 oz)

Rechargeable battery pack NPBG1

Used battery: Lithium-ion battery
Maximum voltage: DC 4.2 V
Nominal voltage: DC 3.6 V
Capacity: 3.4 Wh (960 mAh)

Design and specifications are subject to change without notice.

Model information table

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

• Abbreviation

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

CAUTION

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

SAFETY-RELATED COMPONENT WARNING!!

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

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

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

SAFETY CHECK-OUT

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

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

Unleaded solder

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



: LEAD FREE MARK

Unleaded solder has the following characteristics.

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

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1. SERVICE NOTE

1-1. PRECAUTION ON REPLACING THE SY-177 BOARD

DESTINATION DATA

When you replace to the repairing board, the written destination data of repairing board also might be changed to original setting. Refer to Service Manual ADJ, and perform "DESTINATION DATA WRITE".

USB SERIAL No.

The set is shipped with a unique ID (USB Serial No.) written in it.

This ID has not been written in a new board for service, and therefore it must be entered after the board replacement.

Refer to Service Manual ADJ, and perform "USB SERIAL No. INPUT".

1-2. SELF-DIAGNOSIS FUNCTION

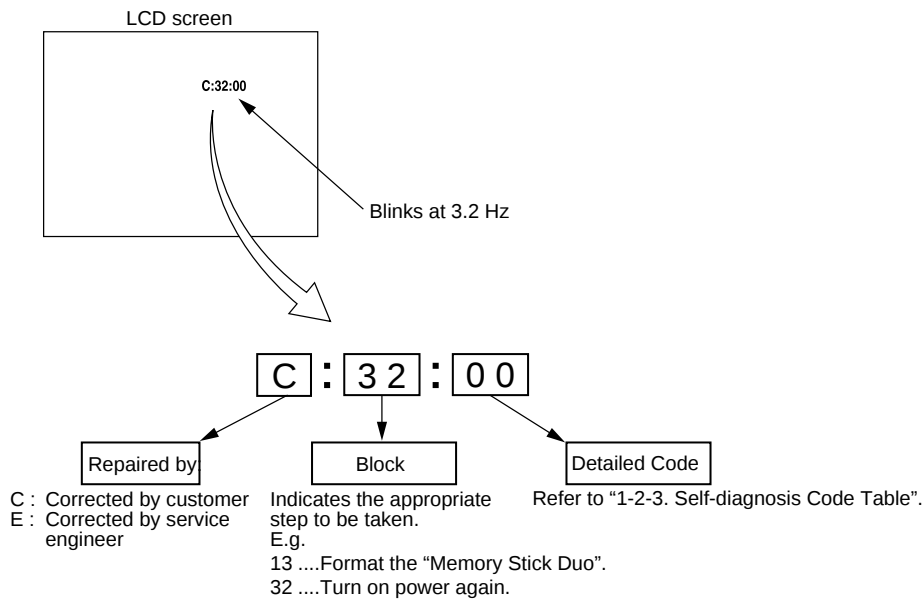
1-2-1. Self-diagnosis Function

When problems occur while the unit is operating, the self-diagnosis function starts working, and displays on the LCD screen what to do.

Details of the self-diagnosis functions are provided in the Instruction manual.

1-2-2. Self-diagnosis Display

When problems occur while the unit is operating, the LCD screen 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.



1-2-3. Self-diagnosis Code Table

Self-diagnosis Code			Symptom/State	Correction
Repaired by	Block Function	Detailed Code		
C	1 3	0 1	The internal memory has experienced a format error.	Format the internal memory.
			“Memory Stick Duo” is unformatted.	Format the “Memory Stick Duo”.
			“Memory Stick Duo” is broken.	Insert a new “Memory Stick Duo”.
			“Memory Stick Duo” type error	Insert a supported “Memory Stick Duo”.
			The camera cannot read or write data on the “Memory Stick Duo”.	Turn the power off and on again, or taking out and inserting the “Memory Stick Duo” several times.
C	3 2	0 1	Trouble with hardware	Turn the power off and on again.
E	6 1	0 1	Difficult to adjust focus (Cannot initialize focus)	Retry turn the power on by the power switch. If it does not recover, check the focus reset sensor of lens block (pin ②⑦ of CN401 on the SY-177 board). If it is OK, check the focus motor drive IC (IC401 on the SY-177 board).
E	6 1	0 2	Zoom operations fault (Cannot initialize zoom lens.)	Retry turn the power on by the power switch. Check the zoom reset sensor of lens block (pin ①⑦ of CN401 on the SY-177 board), if zooming is performed when the zoom button is operated. If it is OK, check the zoom motor drive IC (IC401 on the SY-177 board).
E	6 2	0 2	Abnormality of IC for steadyspot.	Check or replacement of the IC for steadyspot (IC503 on the SY-177 board).
E	6 2	1 0	Lens initializing failure.	Check or replacement of the IC for steadyspot (IC503 on the SY-177 board).
E	6 2	1 1	Lens overheating (PITCH).	Check the HALL element (PITCH) of optical image stabilizer (pin ③⑨, ③⑦ of CN401 on the SY-177 board). If it is OK, check PITCH angular velocity sensor (SE501 on the SY-177 board) peripheral circuits.
E	6 2	1 2	Lens overheating (YAW).	Check the HALL element (YAW) of optical image stabilizer (pin ③⑩, ③② of CN401 on the SY-177 board). If it is OK, check YAW angular velocity sensor (SE502 on the SY-177 board) peripheral circuits.
E	6 2	2 0	Abnormality of thermistor.	Check the OIS temp sensor of optical image stabilizer (pin ③④ of CN401 on the SY-177 board).
E	9 1	0 1	Abnormality when flash is being charged.	Checking of flash unit or replacement of flash unit. (Note)
E	9 2	0 0	Non-standard battery is used.	Use the compatible battery only.

Note: After repair, be sure to perform “1-3. PROCESS AFTER FIXING FLASH ERROR”.

1-3. PROCESS AFTER FIXING FLASH ERROR

When “FLASH error” (Self-diagnosis Code E : 91 : 01) occurs, to prevent any abnormal situation caused by high voltage, setting of the flash is changed automatically to disabling charge and flash setting.

After fixing, this setting needs to be deactivated. Flash error code can be initialized by the operations on the HOME screen.

Method for Initializing the Flash Error Code

Initialize

Initializes the setting to the default setting. Even if you execute this function, the images stored in the internal memory are retained.

- ① Select [Initialize] with ▲/▼/◀/▶, then press ●.
The message “Initialize all settings” appears.
- ② Select [OK] with ▲, then press ●.
The settings are reset to the default setting.

To cancel the resetting

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

- Make sure that the power is not disconnected during resetting.

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

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

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

Method for Copying the Data in Internal Memory

Copy

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

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

To cancel the copying

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

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

Method for Formatting the Internal Memory

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

Format

Formats the internal memory.

- Note that formatting irrevocably erases all data in the internal memory, including even protected images.

- ① Select [Format] with ▲/▼/◀/▶ on the control button, then press ●.
The message “All data in internal memory will be erased” appears.
- ② Select [OK] with ▲, then press ●.
The format is completed.

To cancel the formatting

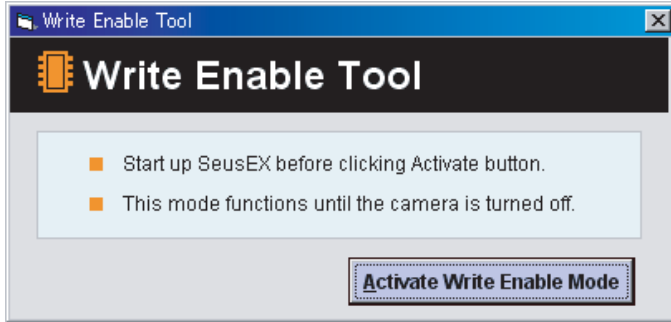
Select [Cancel] in step ②, then press ●.

1-5. HOW TO WRITE DATA TO INTERNAL MEMORY

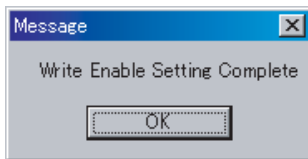
Usually, the camera has been set so as to disable the data writing from the PC to the internal memory of the camera. This setting must be changed temporarily when the data is to be written to the internal memory such as a case after the board replacement. To change the setting, use the write enable tool "WriteEnableTool.exe".

Data writing method

- 1) Connect the PC to the camera (USB mode: Mass Storage), and switch the driver to the "Sony Seus USB Driver".
- 2) Start the Write Enable Tool and the SeusEX.
- 3) Click the **Activate Write Enable Mode** button of the Write Enable Tool.



- 4) Upon completion of the setting change, the following message will be displayed.



- 5) Return the driver to the original one, and connect the PC to the camera (USB mode: Mass Storage).
- 6) Write the data read out into the PC to the internal memory of the camera.
- 7) Disconnect the PC from the camera, and turn off the camera.

Note: By turning off the camera, the write enable setting is reset.

1. サービスノート

1-1. SY-177基板交換時の注意

仕向けデータ

補修用基板と交換する時、補修用基板に書かれている仕向けデータは元の設定と違う場合があります。
ADJ編を参照して、「DESTINATION DATA WRITE」を行ってください。

USBシリアルNo.

セットは、1台毎に異なる固有のID (USB Sereal No.) を書き込んだ後、出荷されています。
新品の補修用基板には、このIDが書き込まれていないので、基板交換後にIDを入力する必要があります。
ADJ編を参照して、「USB SERIAL No. INPUT」を行ってください。

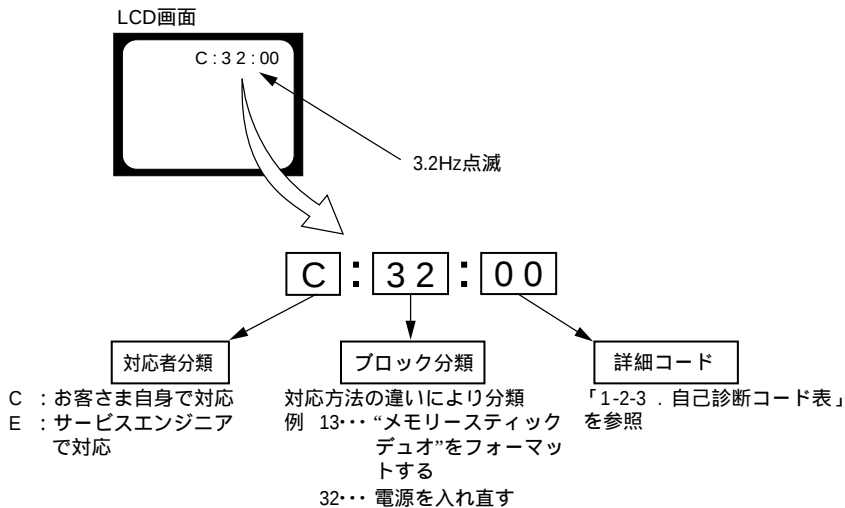
1-2. 自己診断機能

1-2-1. 自己診断機能について

本機の動作に不具合が生じたとき、自己診断機能が働き、LCD画面に、どう処置したらよいか判断できる表示を行います。自己診断機能については取扱説明書にも掲載されています。

1-2-2. 自己診断表示

本機の動作に不具合が生じたとき、LCD画面にアルファベットと4桁の数字が表示され、3.2Hzで点滅します。この5文字の表示によって対応者分類および不具合の生じたブロックの分類、不具合の詳細コードを示します。



1-2-3. 自己診断コード表

自己診断コード			症状 / 状態	対応 / 方法
対応者	ブロック機能	詳細コード		
C	1 3	0 1	内蔵メモリにフォーマットエラーがあった。	内蔵メモリをフォーマットする。
			フォーマットしていない“メモリースティック デュオ”を入れた。	“メモリースティック デュオ”をフォーマットする。
			“メモリースティック デュオ”が壊れている。	新しい“メモリースティック デュオ”に交換する。
			“メモリースティック デュオ”のタイプエラーを検出した。	規格内の“メモリースティック デュオ”を挿入する。
			“メモリースティック デュオ”が読み / 書きできない。	電源の入れ直し, または“メモリースティック デュオ”の挿し / 外しを数回試す。
C	3 2	0 1	ハードウェアトラブルを検出した。	電源を入れ直す。
E	6 1	0 1	フォーカスが合いにくい。 (フォーカスの初期化ができない)	操作スイッチの電源を入れ直す。 復帰しない場合はレンズブロックのフォーカスリセットセンサ (SY-177基板CN401②⑦ピン) を点検する。異常なければフォーカスマータ駆動IC (SY-177基板IC401) を点検する。
E	6 1	0 2	ズーム動作の異常。 (ズームレンズの初期化ができない)	操作スイッチの電源を入れ直す。 ズームボタンを操作したときにズーム動作をすればレンズブロックのズームリセットセンサ (SY-177基板CN401⑦ピン) を点検する。異常なければズームモータ駆動IC (SY-177基板IC401) を点検する。
E	6 2	0 2	手振れ補正用ICの異常。	手振れ補正用IC (SY-177基板IC503) を点検または交換する。
E	6 2	1 0	手振れ補正用ICの異常。 (レンズ初期化異常)	手振れ補正用IC (SY-177基板IC503) を点検または交換する。
E	6 2	1 1	レンズオーバーヒート (PITCH)	光学手振れ補正ブロックのホール素子 (PITCH X SY-177基板CN401③⑤, ③⑦ピン) を点検する。異常なければPITCH角速度センサ (SY-177基板SE501) 周辺の回路を点検する。
E	6 2	1 2	レンズオーバーヒート (YAW)	光学手振れ補正ブロックのホール素子 (YAW X SY-177基板CN401③⑩, ③②ピン) を点検する。異常なければYAW角速度センサ (SY-177基板SE502) 周辺の回路を点検する。
E	6 2	2 0	サーミスタの異常。	光学手振れ補正ブロックのサーミスタ (SY-177基板CN401④④ピン) を点検する。
E	9 1	0 1	フラッシュの充電異常。	フラッシュユニットを点検または交換する。(Note)
E	9 2	0 0	規定外の充電電池が使用された。	規定の充電電池を使用する。

Note : 交換後は, 必ず「1-3. フラッシュ異常修理後の処置」を行って下さい。

1-3. フラッシュエラー発生時の対処法

本機はフラッシュエラー（自己診断コードE：91：01）が発生した場合、高電圧による異常を防止するために自動的にフラッシュ充電および発光禁止の設定になります。

フラッシュエラー発生後はエラーの解除を行う必要があります。エラーの解除はホーム画面から初期化操作を実行することにより行います。

設定リセット

お買い上げ時の設定に戻します。

[設定リセット] を実行しても、内蔵メモリーに記録されている画像は削除されません。

① コントロールボタンの▲/▼/▶/◀で [設定リセット] を選び、中央の●を押す。

「全ての設定内容をリセットします」というメッセージが表示される。

② ▲で [実行] を選び、中央の●を押す。

設定リセットが実行される。

設定リセットを中止するには

手順②で、[キャンセル] を選び、中央の●を押す。

設定リセット中は電源が切れないようにご注意ください。

1-4. 内蔵メモリのデータコピーおよび消去方法

内蔵メモリのデータコピーまたは消去はホーム画面の操作から実行可能です。（消去する場合は内蔵メモリの初期化を行います。）

Note: SY-177基板交換の際は、基板交換前に内蔵メモリのデータを消去して下さい。

内蔵メモリのコピー方法

コピー

内蔵メモリーに記録した画像を、“メモリースティック デュオ”に一括コピーします。

① 32MB以上の容量のある“メモリースティック デュオ”を本体に入れる。

② コントロールボタンの▲/▼/▶/◀で [コピー] を選び、中央の●を押す。

「内蔵メモリーのデータがすべてコピーされます」というメッセージが表示される。

③ ▲で [実行] を選び、中央の●を押す。

コピーが実行される。

コピーを中止するには

手順③で、[キャンセル] を選び、中央の●を押す。

* 十分に充電したバッテリーをご使用ください。残量の少ないバッテリーを使用して画像ファイルをコピーすると、バッテリー切れのため、データを転送できなかったり、データを破損するおそれがあります。

* 画像ごとのコピーはできません。

* データをコピーしても、内蔵メモリー内のデータは削除されません。内蔵メモリーの内容を消去するには、コピー後に“メモリースティック デュオ”を本体から取りはずし、[内蔵メモリーツール] [フォーマット] を行ってください。

* データをコピーすると、“メモリースティックデュオ”内に新しいフォルダが作成されます。

コピー先のフォルダを指定することはできません。

* データのコピーを行っても、DPOR(プリント予約)マークの設定はコピーされません。

内蔵メモリのフォーマット方法

“メモリースティック デュオ”が本機に入っている場合は表示されません。

フォーマット

内蔵メモリーの管理領域をフォーマット(初期化)します。

フォーマットすると、プロテクトしてある画像も含めて、すべてのデータが消去され、元に戻しません。

① コントロールボタンの▲/▼/▶/◀で [フォーマット] を選び、中央の●を押す。

「内蔵メモリーのデータがすべて消去されます」というメッセージが表示される。

▲で [実行] を選び、中央の●を押す。

② フォーマットが実行される。

フォーマットを中止するには

手順②で、[キャンセル] を選び、中央の●を押す。

1-5. 内蔵メモリヘデータを書き戻す方法

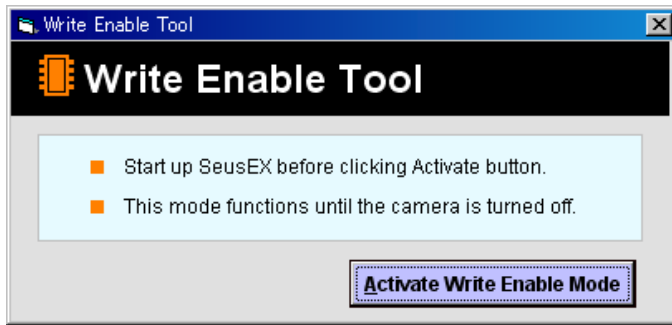
通常は、PCからカメラの内蔵メモリヘデータを書き込むことはできない設定になっています。

基板交換後などに、内蔵メモリヘデータを書き戻す場合には、この設定を一時的に変更する必要があります。

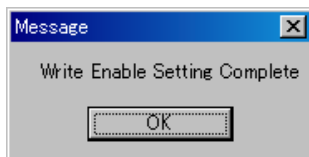
設定の変更には、書き込み許可ツール(Write Enable Tool.exe)を使用します。

書き戻し方法

- 1) カメラとPCをマストレージ接続し、ドライバを"Sony Seus USB Driver"に切り替える。
- 2) 書き込み許可ツールとSeusEXを起動する。
- 3) 書き込み許可ツールの[Activate Write Enable Mode]ボタンをクリックする。



- 4) 設定の変更が終了すると、次のメッセージが表示されます。



- 5) ドライバを元に戻して、カメラとPCをマストレージ接続する。
- 6) PCに読み出しておいたデータをカメラの内蔵メモリに書き込む。
- 7) カメラとPCの接続を解除し、カメラの電源をOFFにする。

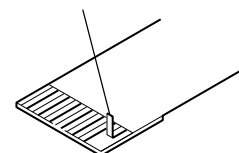
注意：カメラの電源をOFFにすることにより、書き込み許可の設定が解除されます。

2. DISSASSEMBLY

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.
- 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.
- Do not apply excessive load to the gilded flexible board.

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



DISCHARGING OF THE DD-272 BOARD'S CHARGING CAPACITOR (C205)

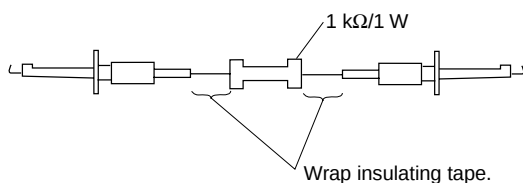
The charging capacitor (C205) of the DD-272 board is charged up to the maximum 300 V potential.

There is a danger of electric shock by this high voltage when the capacitor is handled by hand. The electric shock is caused by the charged voltage which is kept without discharging when the main power of the unit is simply turned off. Therefore, the remaining voltage must be discharged as described below.

Preparing the Short Jig

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

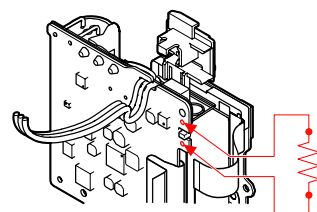
Wrap insulating tape fully around the leads of the resistor to prevent electrical shock.



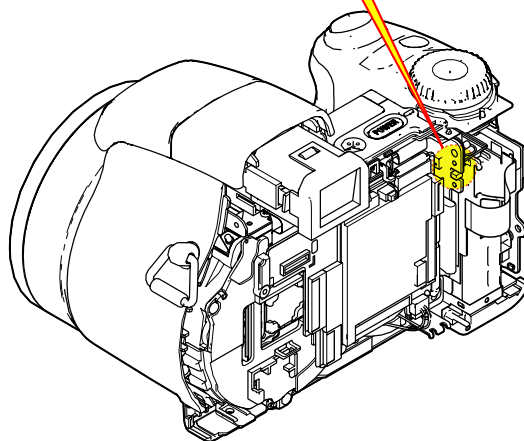
Note: High-voltage cautions

Discharging the Capacitor

Short-circuit between the two points with the short jig about 10 seconds.



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

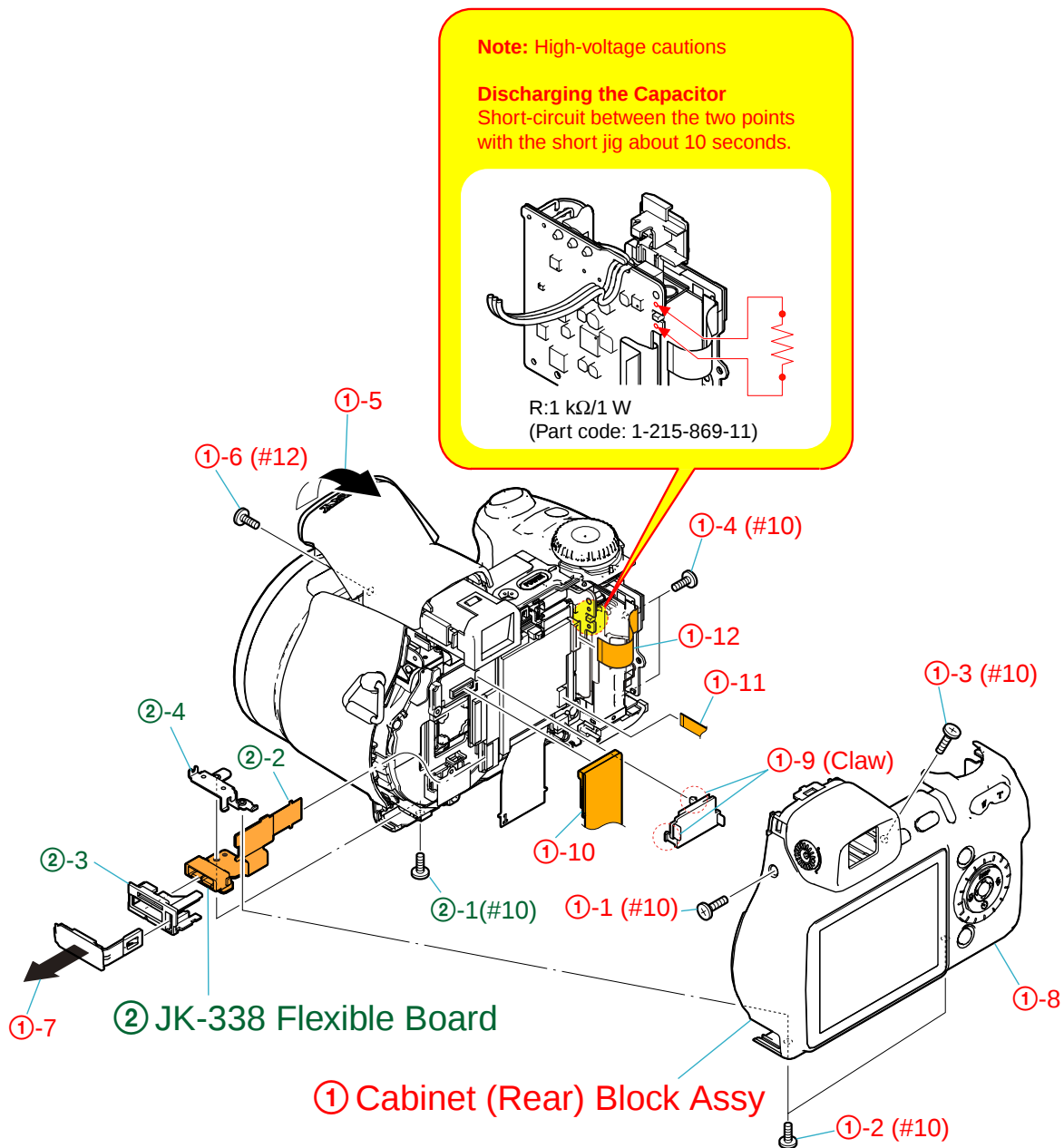


2-1. DISASSEMBLY

EXPLODED VIEW

HARDWARE LIST

2-1-1. CABINET(REAR) BLOCK ASSY AND JK-338 FLEXIBLE BOARD (DSC-H7)

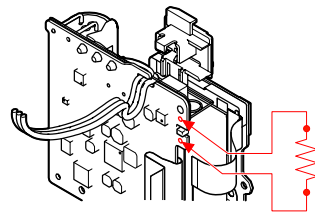


2-1-2. CABINET(REAR) BLOCK ASSY AND JK-338 FLEXIBLE BOARD (DSC-H9)

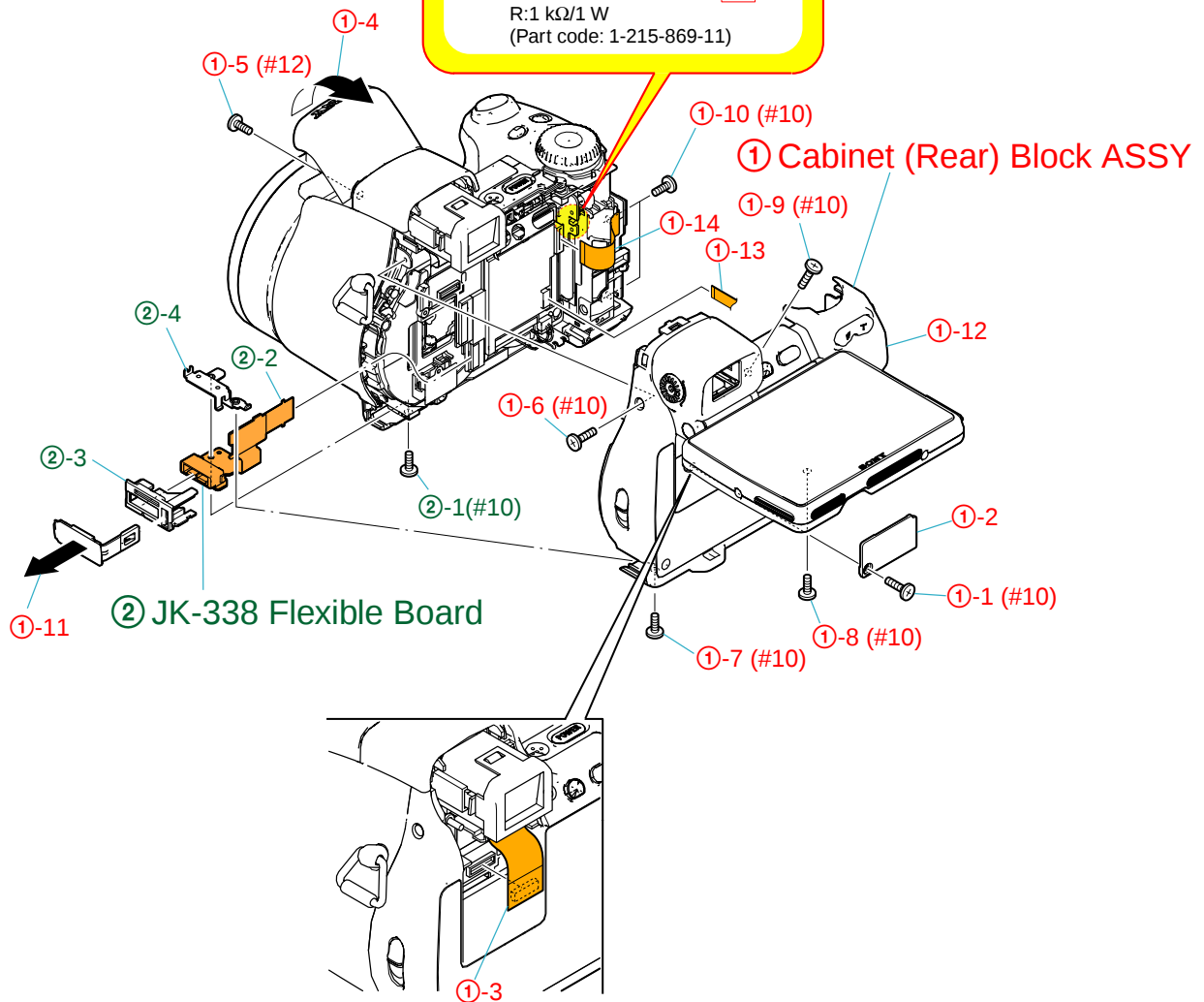
Note: High-voltage cautions

Discharging the Capacitor

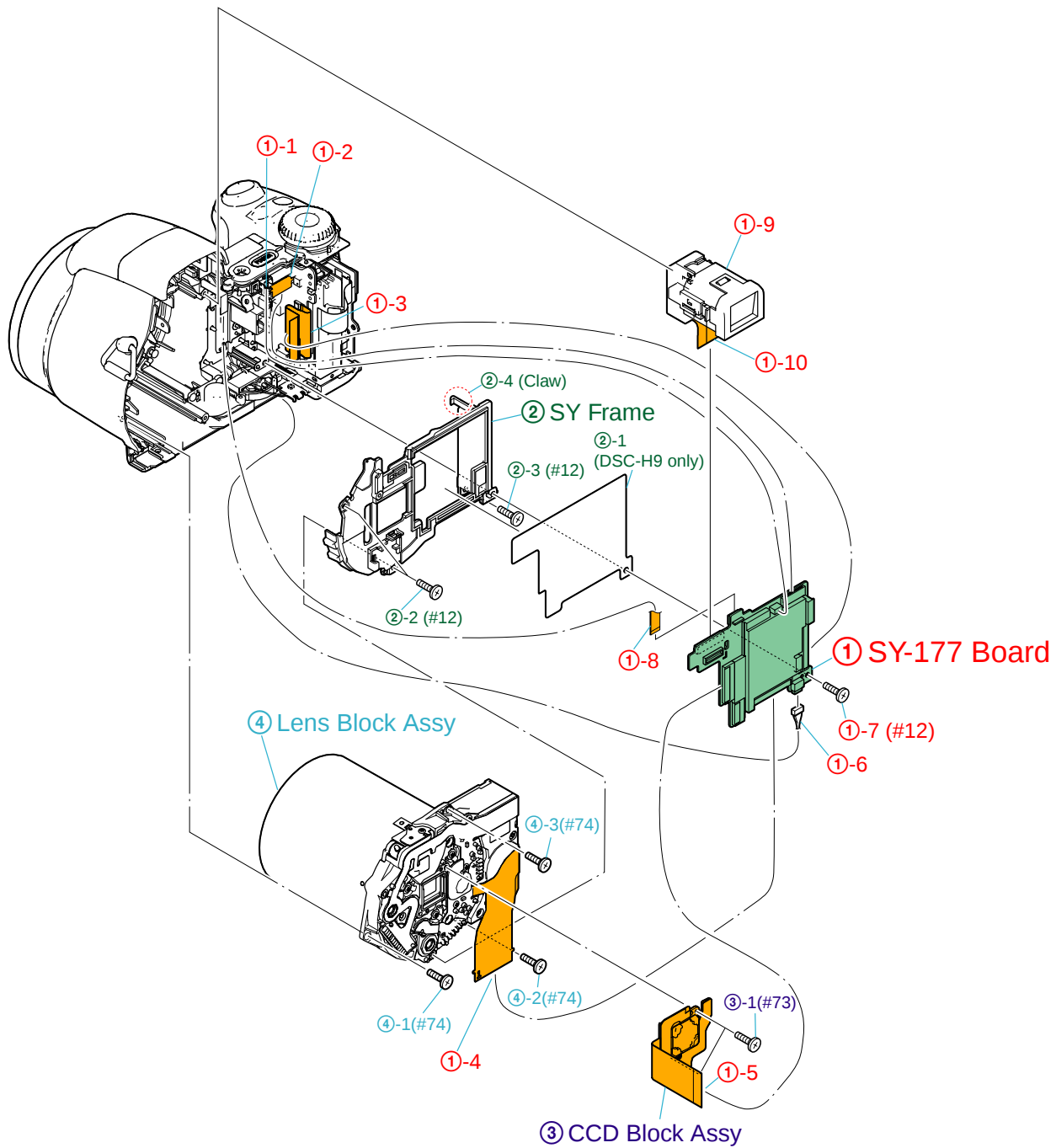
Short-circuit between the two points with the short jig about 10 seconds.



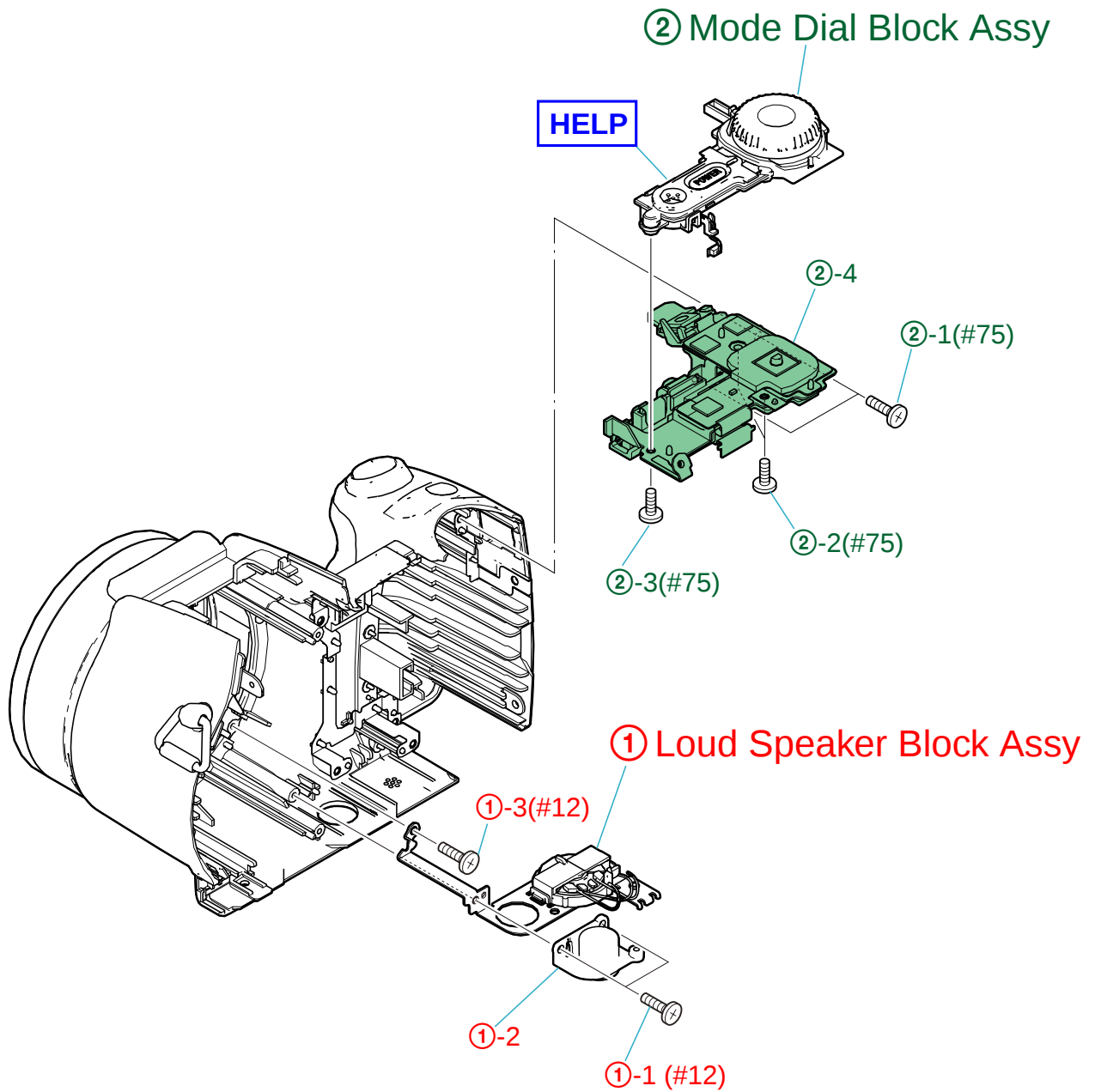
R:1 k Ω /1 W
(Part code: 1-215-869-11)



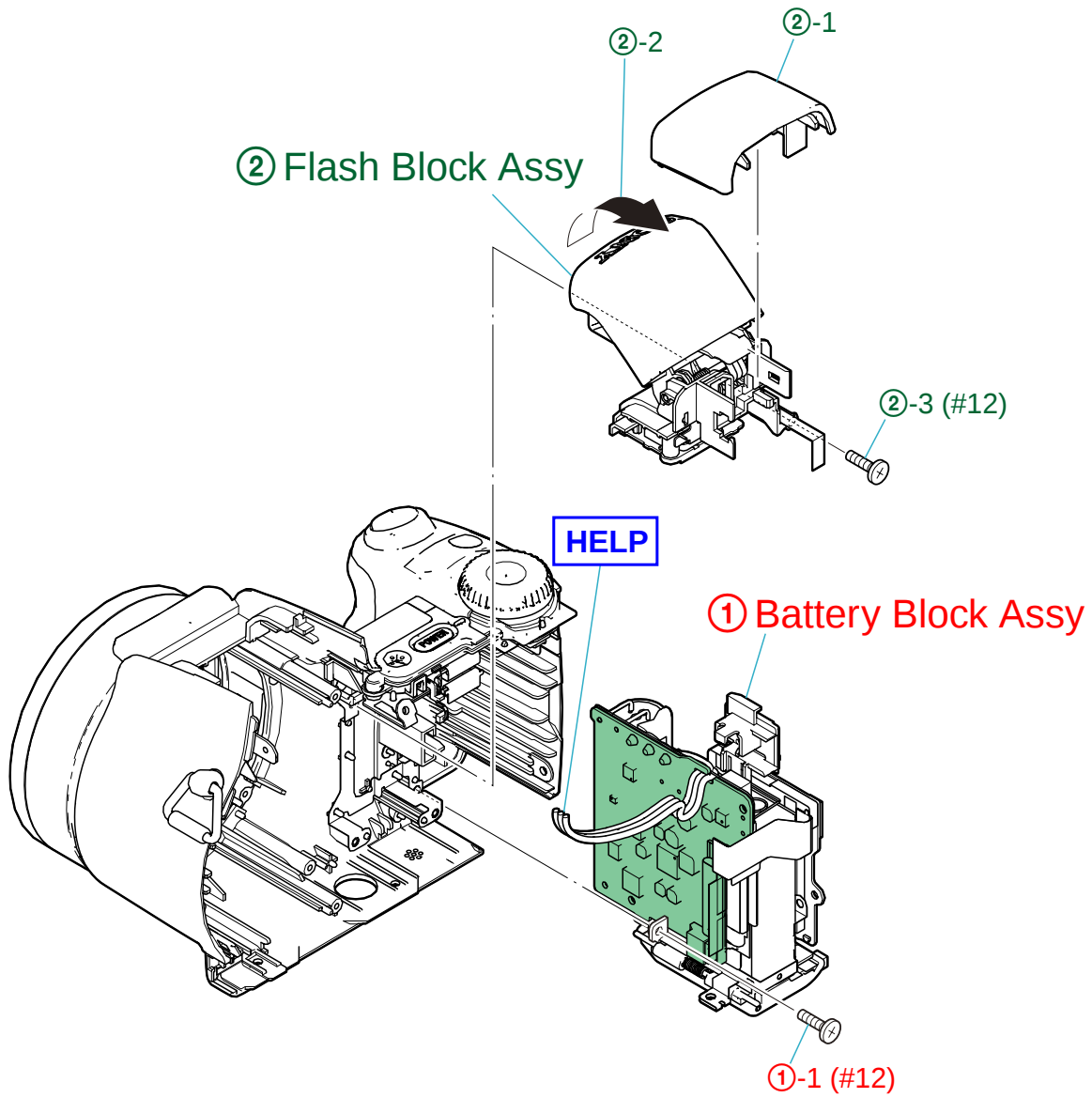
2-1-3. SY-177 BOARD, SY FRAME, CCD BLOCK ASSY AND LENS BLOCK ASSY



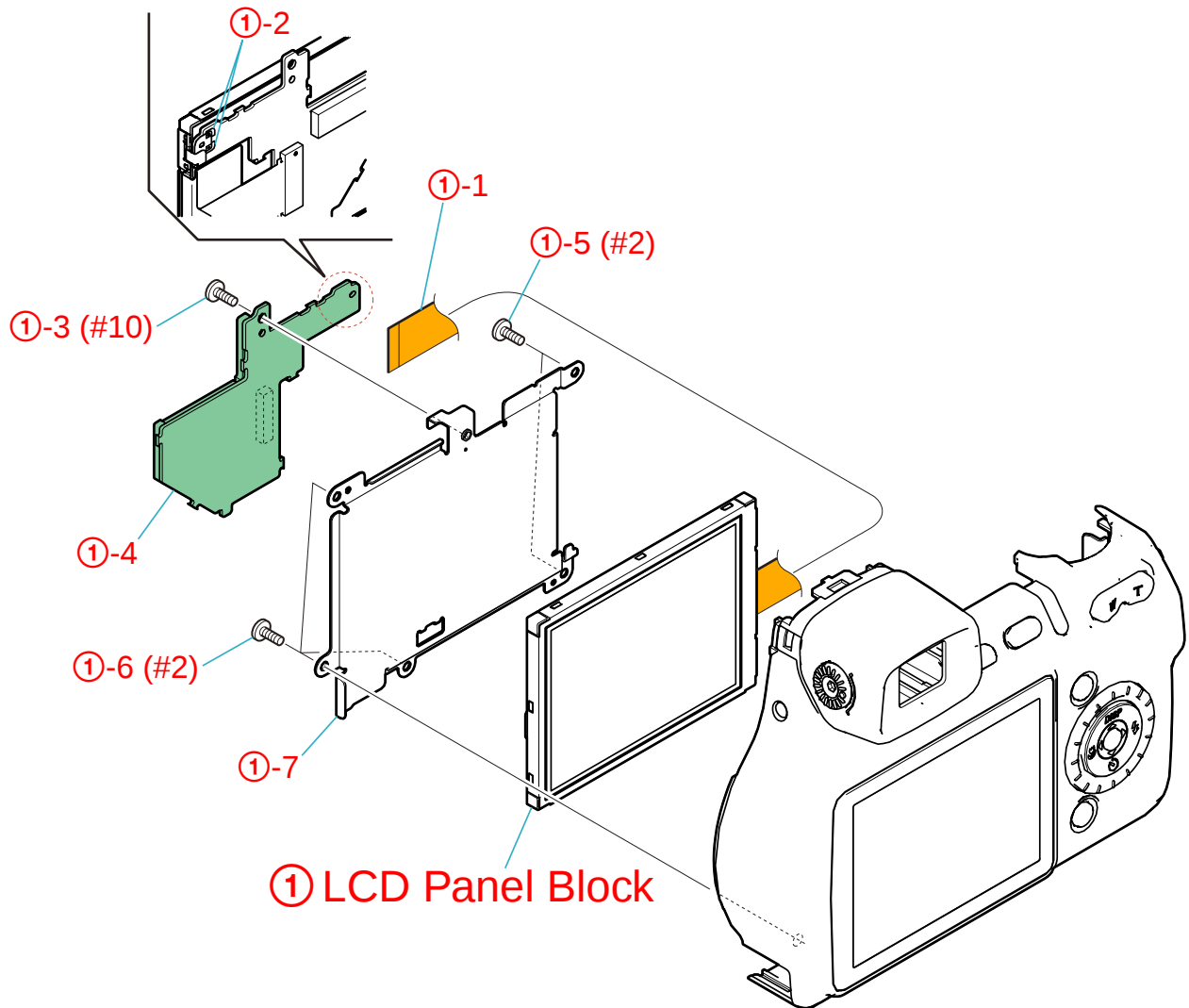
2-1-4. LOUD SPEAKER BLOCK ASSY AND MODE DIAL BLOCK ASSY



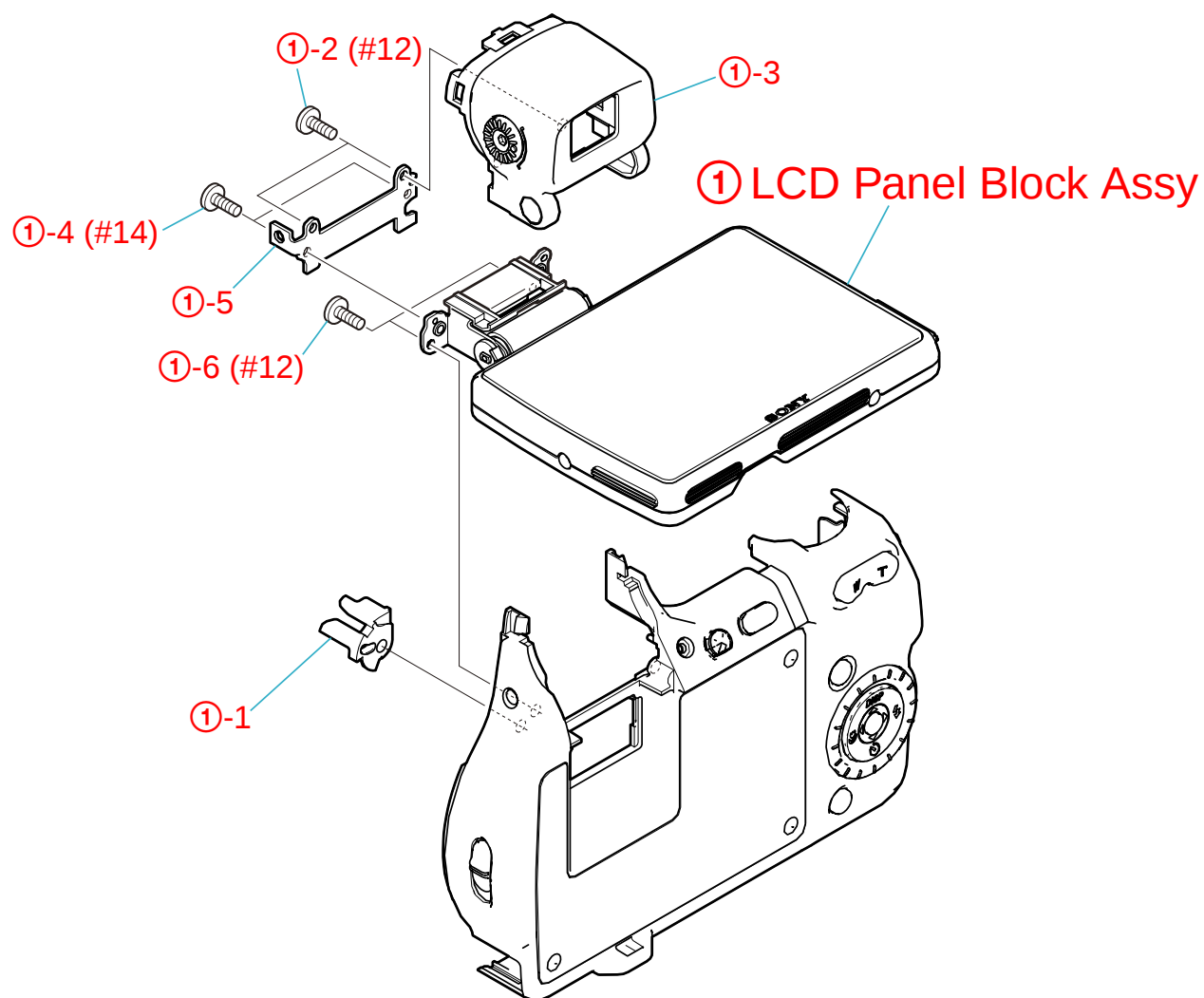
2-1-5. BATTERY BLOCK ASSY AND FLASH BLOCK ASSY



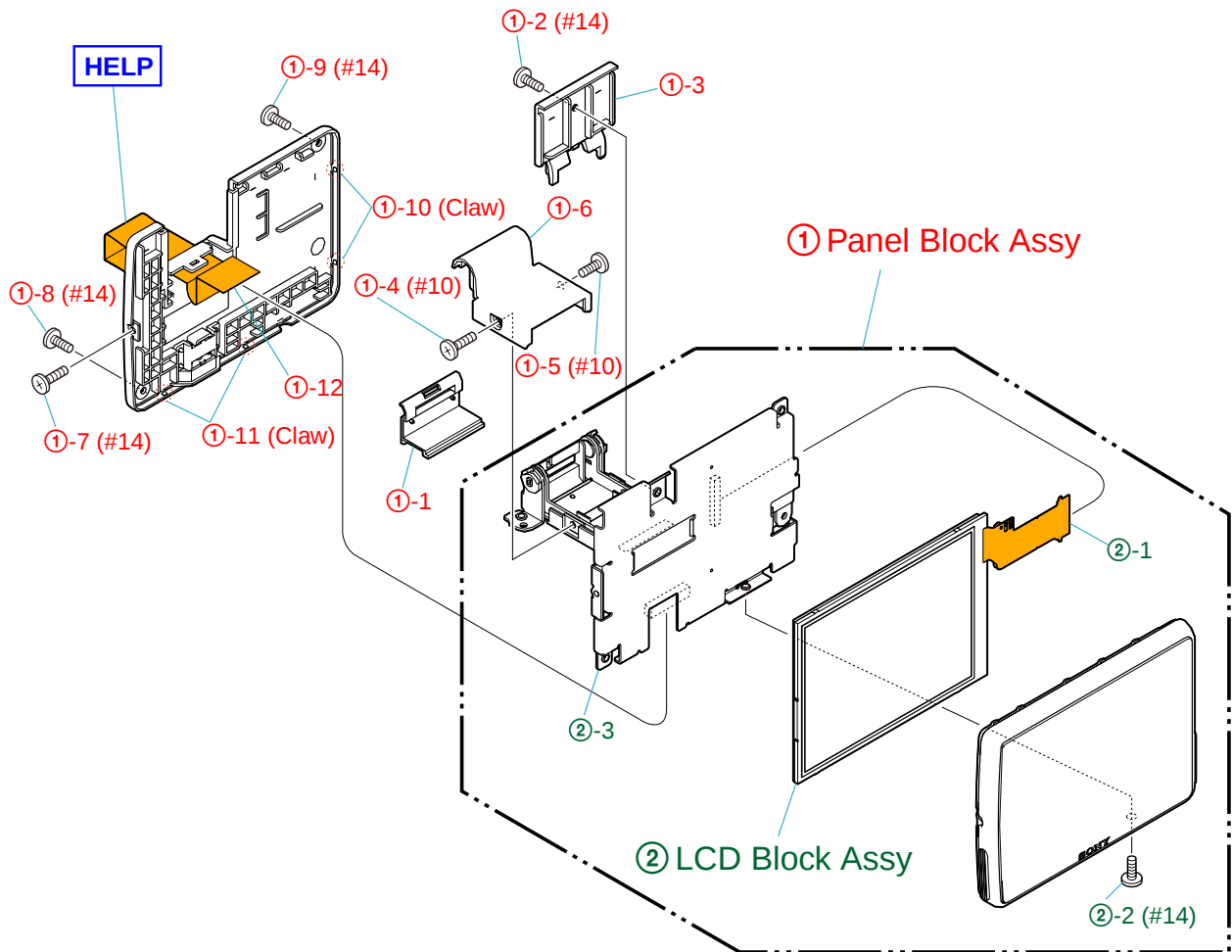
2-1-6. LCD PANEL BLOCK (DSC-H7)



2-1-7. LCD PANEL BLOCK (DSC-H9)



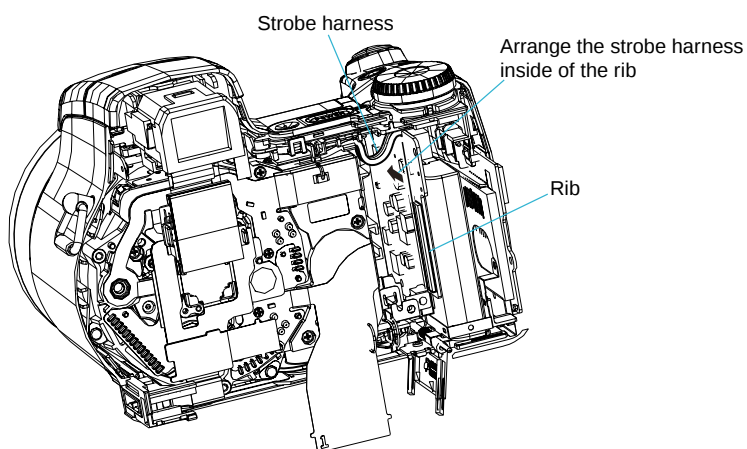
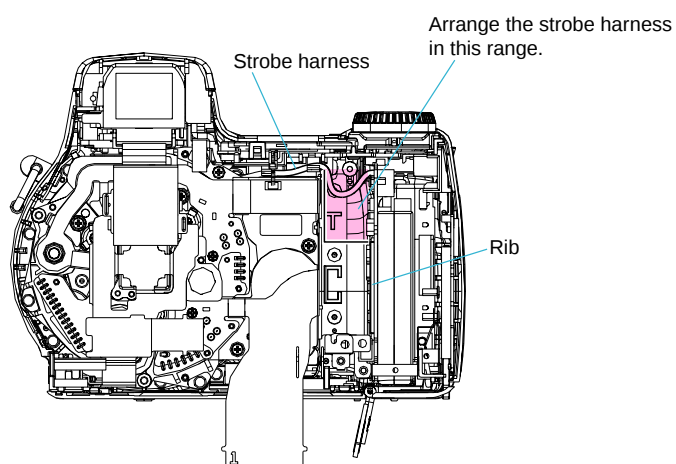
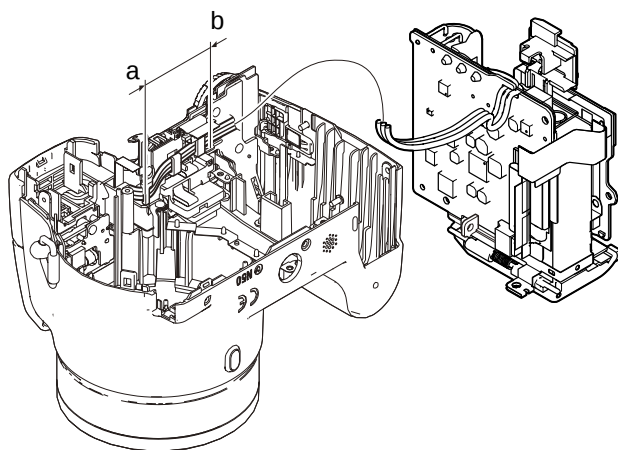
2-1-8. PANEL BLOCK ASSY AND LCD BLOCK ASSY (DSC-H9)



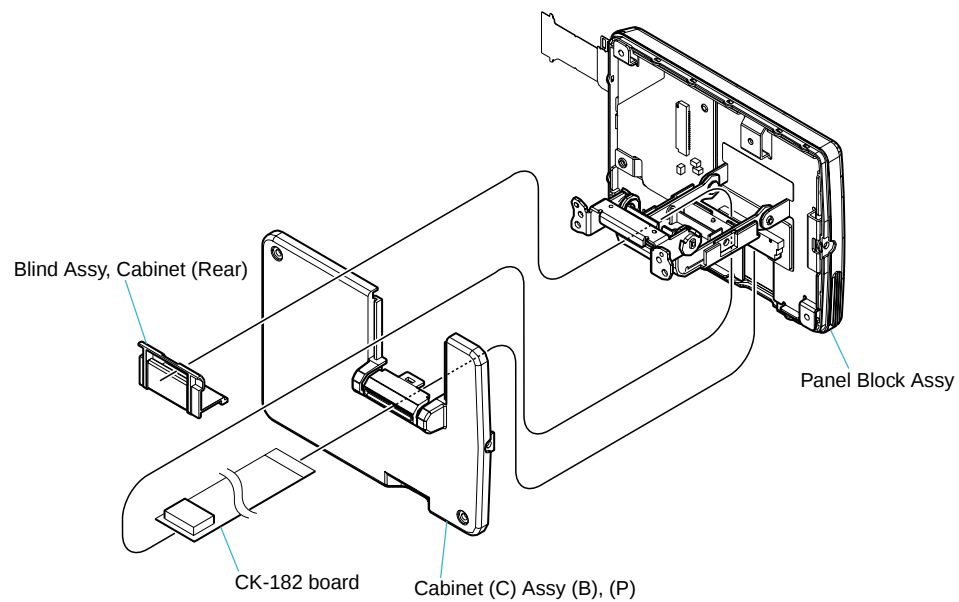
HELP

Assembling procedures that require attention are described here.

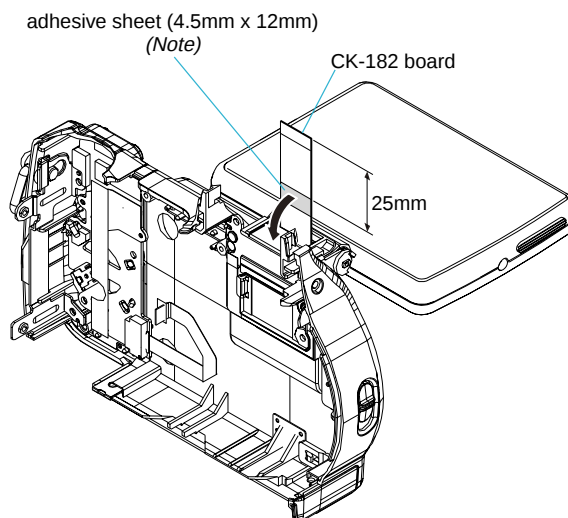
When installing the harness, do not intersect the harness in the part between "a" and "b" as shown in figure.



CK-182 flexible board arrangement



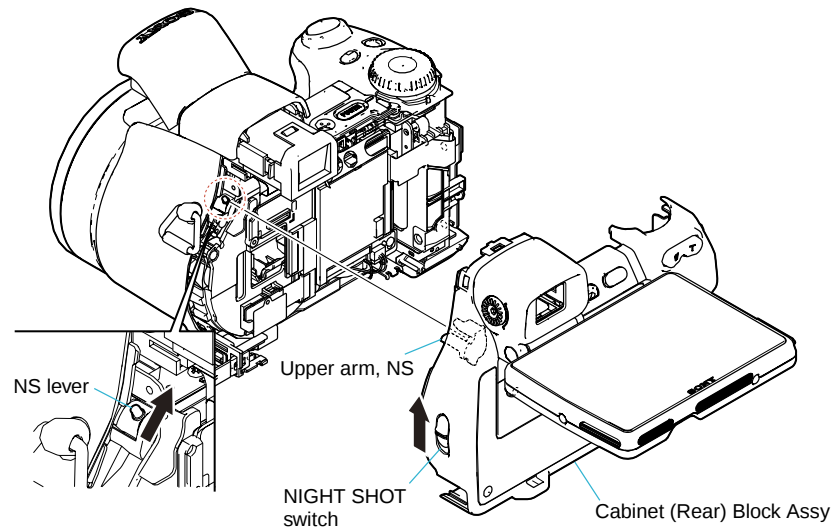
CK-182 flexible board sticking



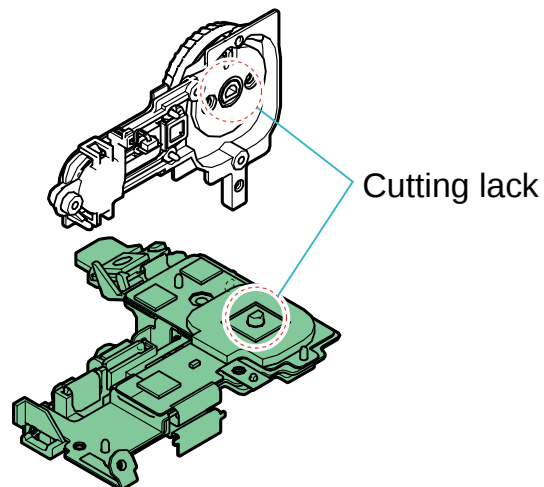
Note : 接着紙 (2-649-300-01) を切って使用。

Note : Cut SHEET, ADHESIVE (2-649-300-01)
into the desired length and use it.

On assembling, set the NS lever and the NIGHTSHOT switch up and adjust the notch of NS upper arm to the projection on NS lever.



When assembling the mode dial, match the direction of the cutting lack as shown in figure



3. BLOCK DIAGRAMS

Link

• **OVERALL BLOCK DIAGRAM (1/2)**

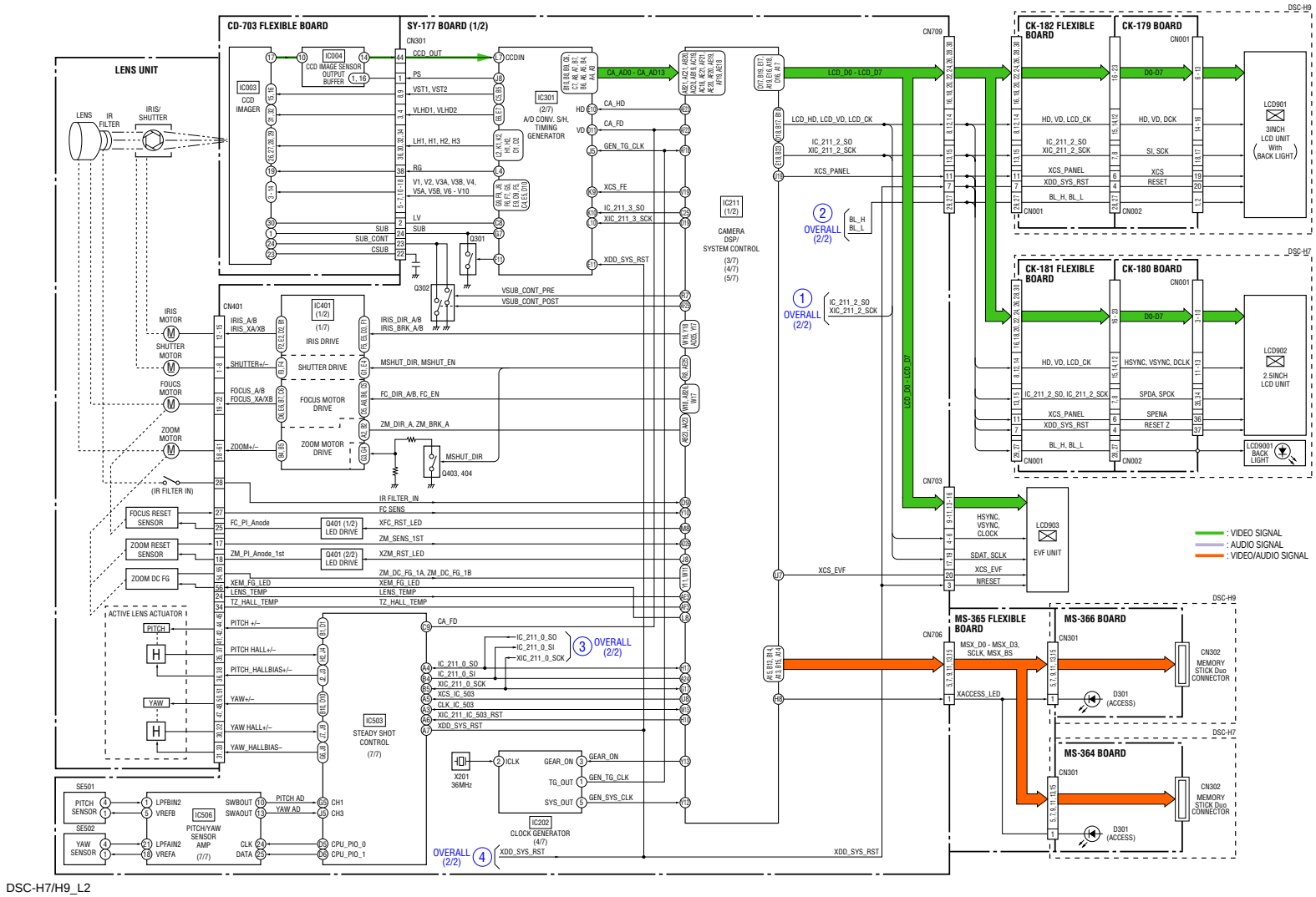
• **POWER BLOCK DIAGRAM (1/2)**

• **OVERALL BLOCK DIAGRAM (2/2)**

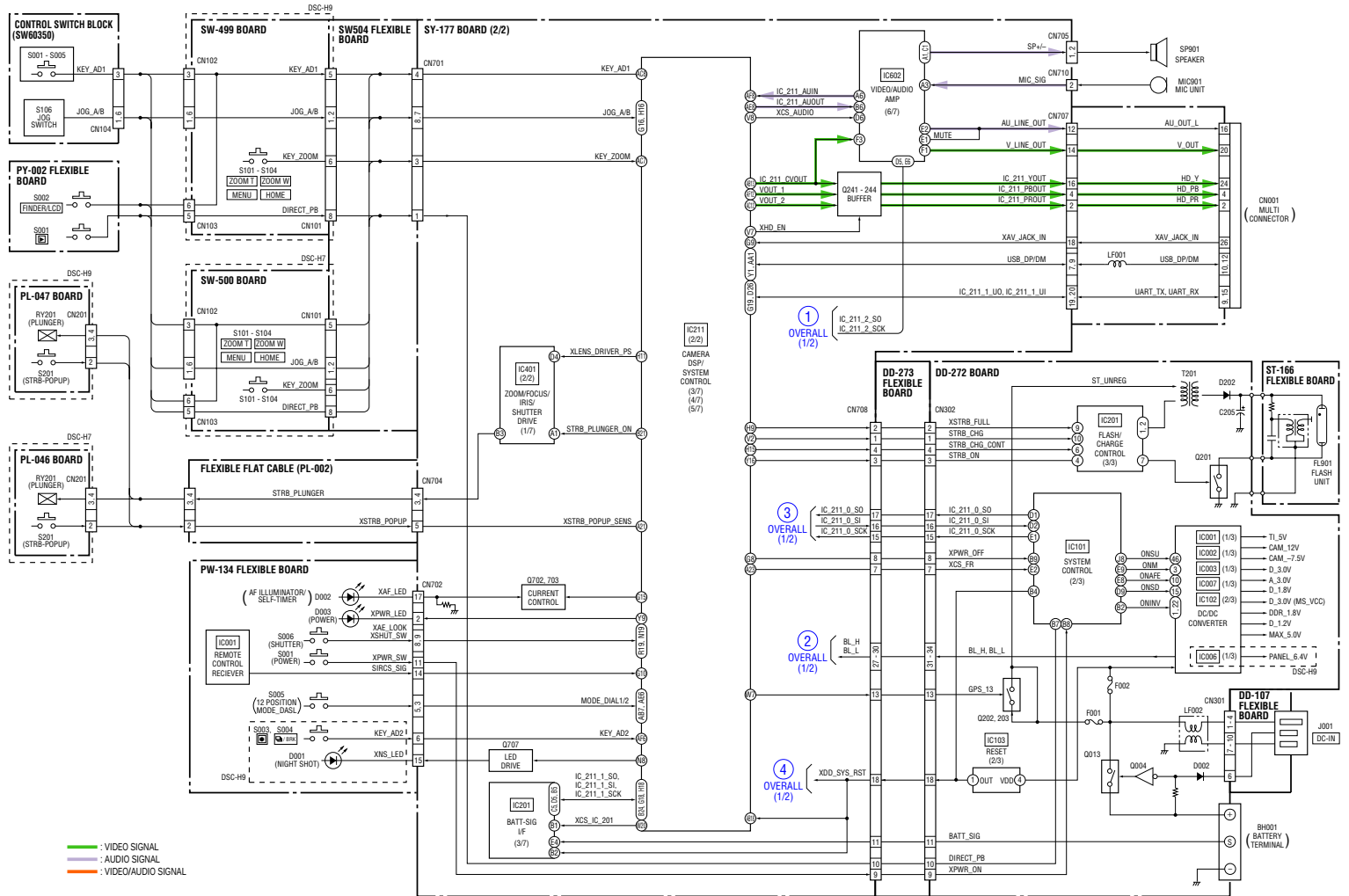
• **POWER BLOCK DIAGRAM (2/2)**

3. BLOCK DIAGRAMS

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

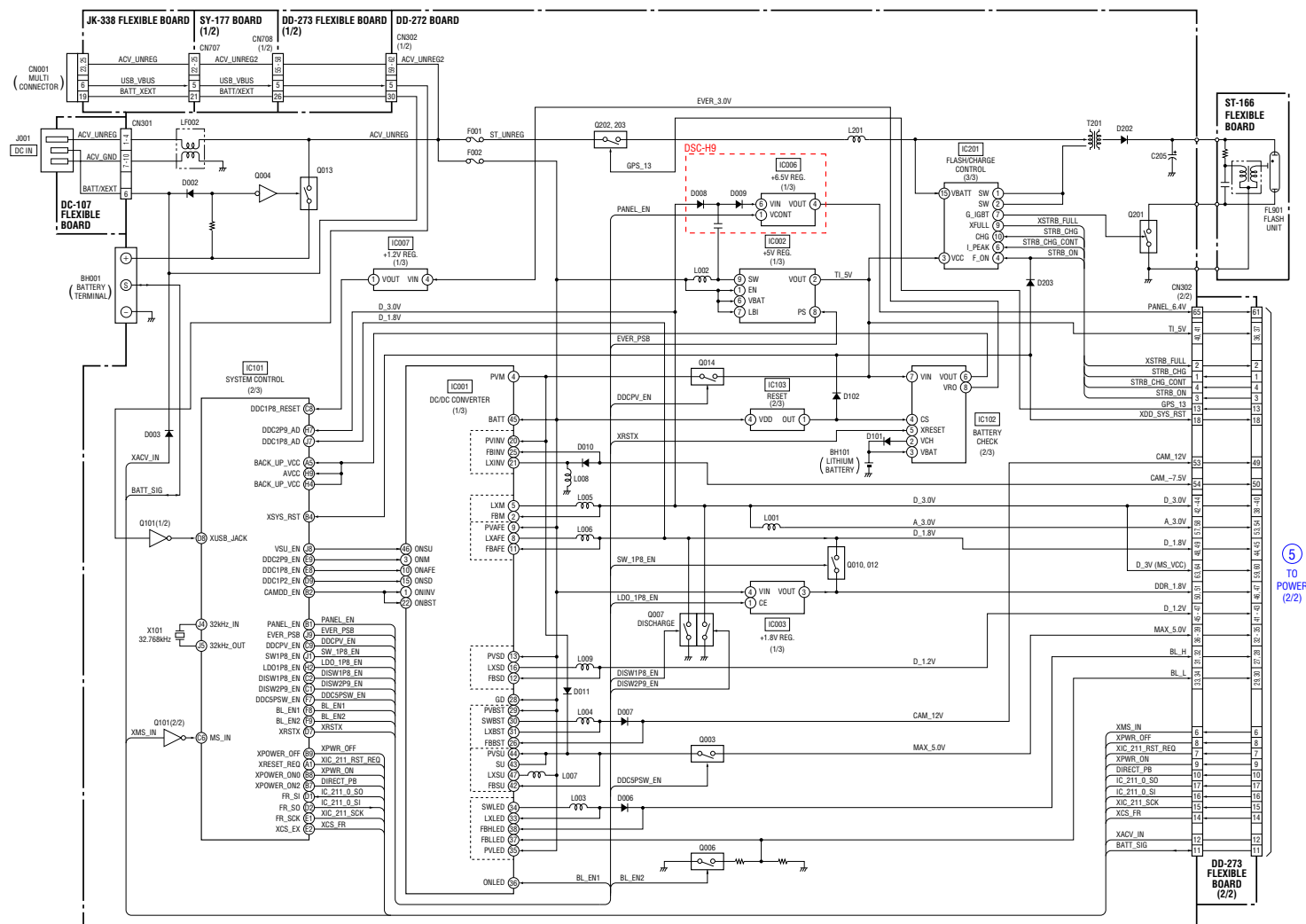


3-2. OVERALL BLOCK DIAGRAM (2/2) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.



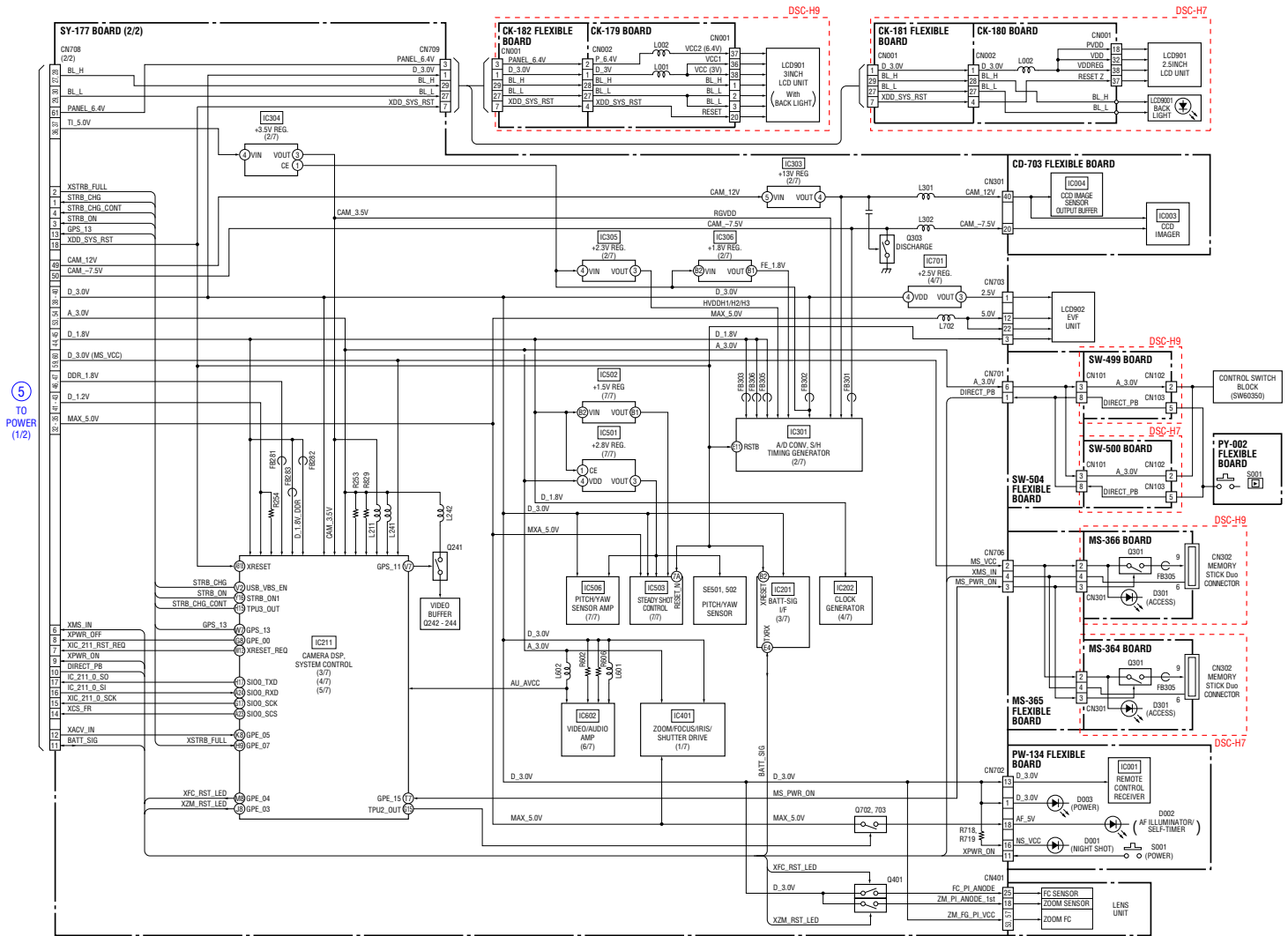
DSC-H7/H9_L2

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



⑤
TO
POWER
(2/2)

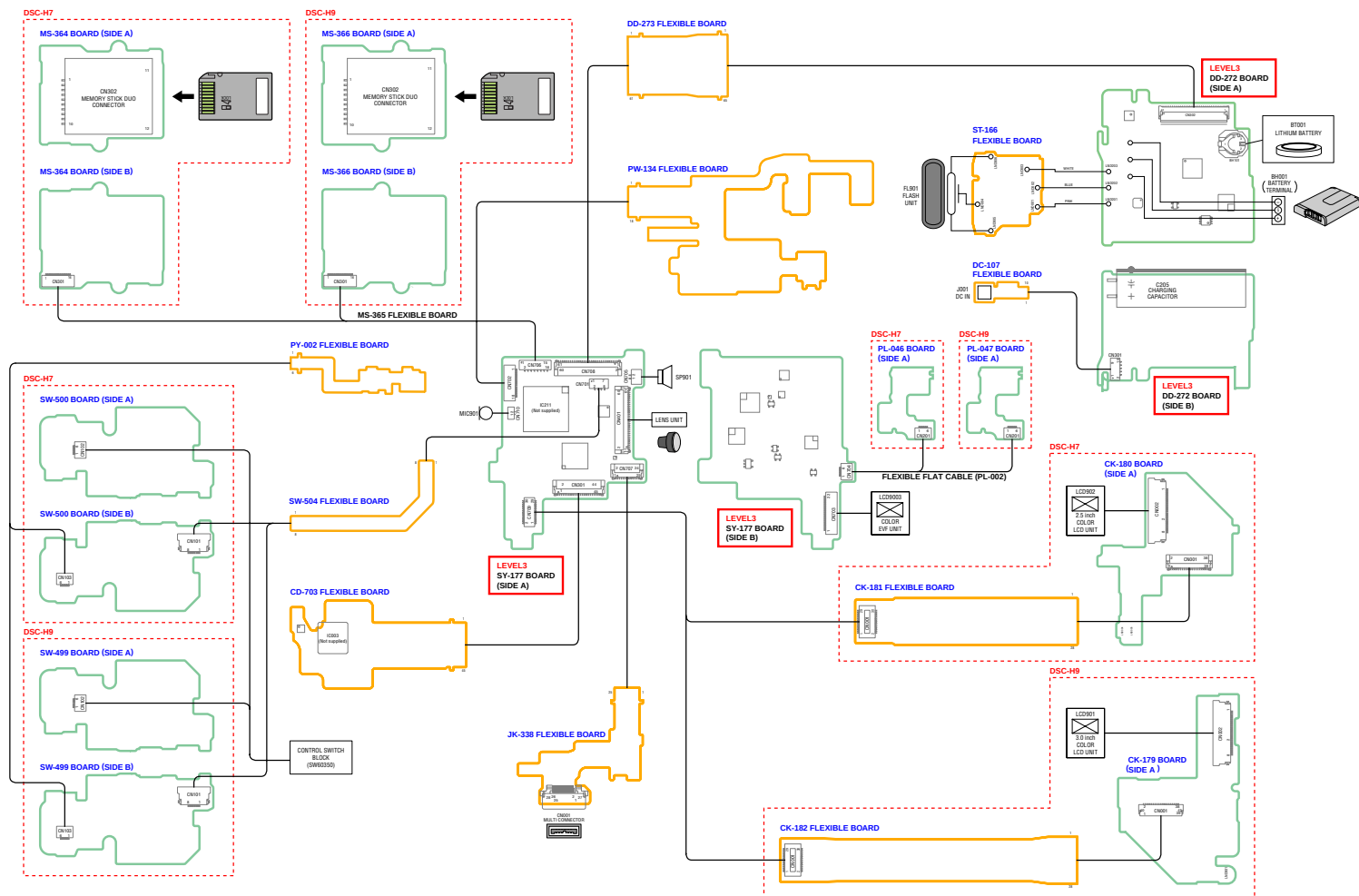
3-3. POWER BLOCK DIAGRAM (2/2) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.



DSC-H7/H9_L2

4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

4-1. FRAME SCHEMATIC DIAGRAM



4-2. SCHEMATIC DIAGRAMS

Link

• CD-703 FLEXIBLE BOARD (CCD IMAGER)	• SW-499 BOARD:DSC-H9 (SWITCH)
• CK-180 BOARD:DSC-H7 (SY TO LCD RELAY)	• SW-500 BOARD:DSC-H7 (SWITCH)
• CK-181 FLEXIBLE BOARD:DSC-H7 (SY TO CK RELAY)	• SW-504 FLEXIBLE BOARD (SY TO SW RELAY)
• CK-179 BOARD:DSC-H9 (SY TO LCD RELAY)	• PL-046 BOARD:DSC-H7 (PLUNGER)
• CK-182 FLEXIBLE BOARD:DSC-H9 (SY TO CK RELAY)	• PL-047 BOARD:DSC-H9 (PLUNGER)
• JK-338 FLEXIBLE BOARD (MULTI CONNECTOR)	• PW-134 FLEXIBLE BOARD (FUNCTION SWITCH)
• MS-364 BOARD:DSC-H7 (MS CONNECTOR)	• DC-107 FLEXIBLE BOARD (DC IN)
• MS-365 FLEXIBLE BOARD (SY TO MS RELAY)	• DD-273 FLEXIBLE BOARD (SY TO DD RELAY)
• MS-366 BOARD:DSC-H9 (MS CONNECTOR)	• ST-166 FLEXIBLE BOARD (FLASH UNIT)
• PY-002 FLEXIBLE BOARD (SWITCH)	

• COMMON NOTE FOR SCHEMATIC DIAGRAMS

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 : 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.

Example	C541	L452
	22U	10UH
	TA A	2520
	Case size	External dimensions (mm)

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

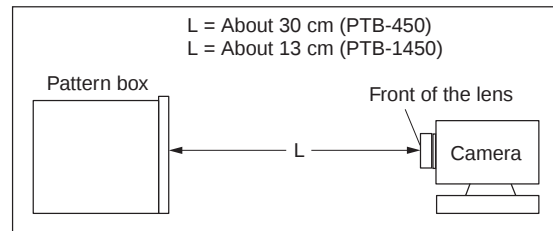
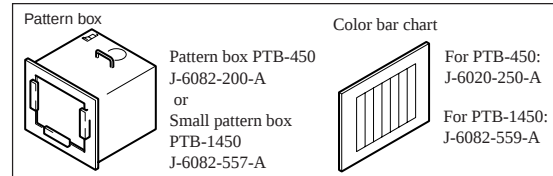
(Measuring conditions voltage and waveform)

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

Precautions for Replacement of Imager

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

1. Connection



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

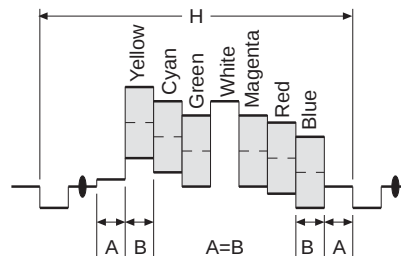


Fig. a (Video output terminal output waveform)

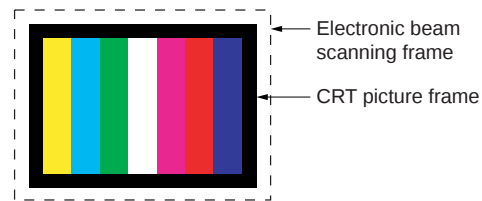


Fig.b (Picture on monitor TV)

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

The components identified by mark 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.

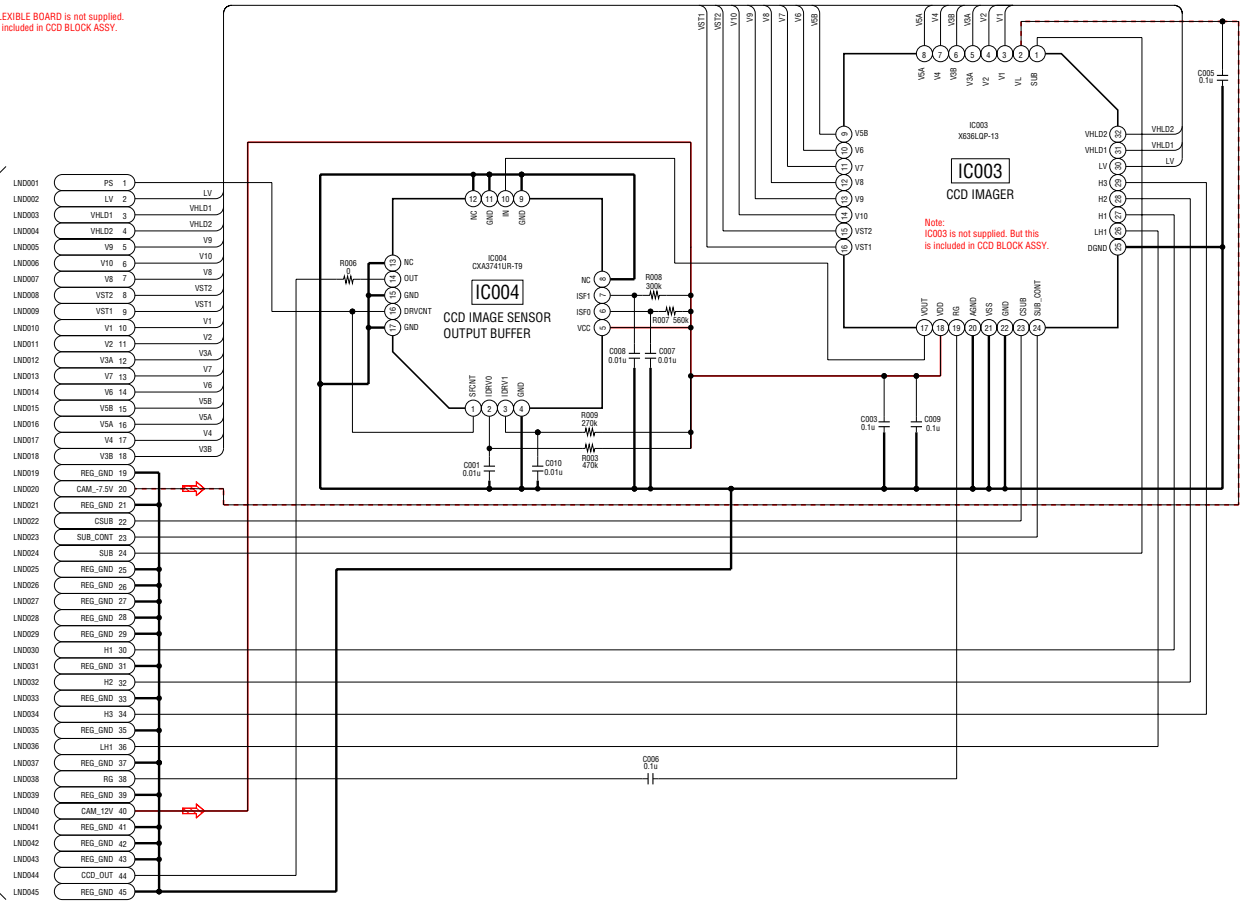
CD-703 FLEXIBLE BOARD

CCD IMAGER

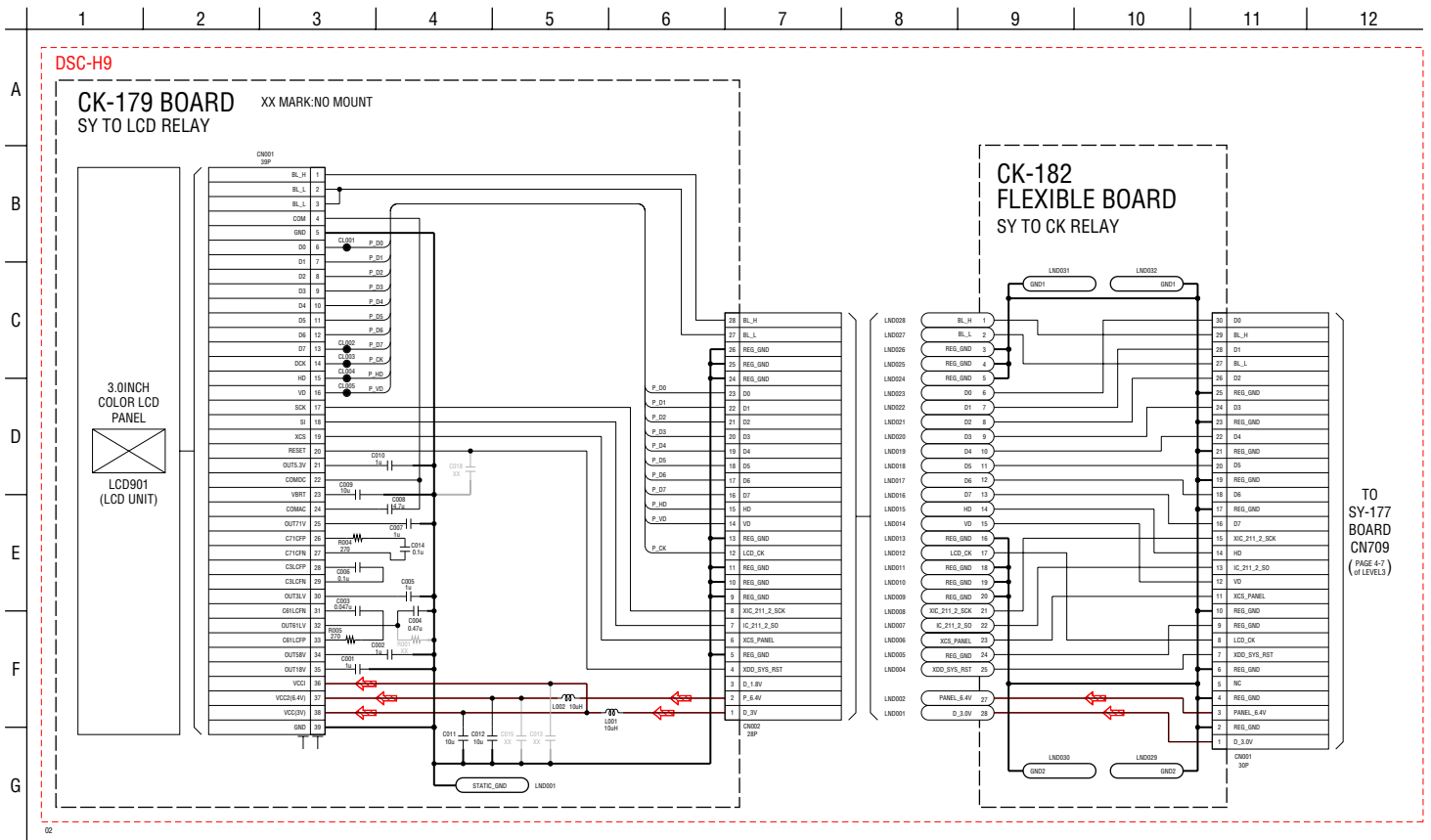
Note: CD-703 FLEXIBLE BOARD is not supplied.
But this is included in CCD BLOCK ASSY.

Note: Voltages of IC003 and IC004 can not be
measured, because they are mounted on
the side of the lens.

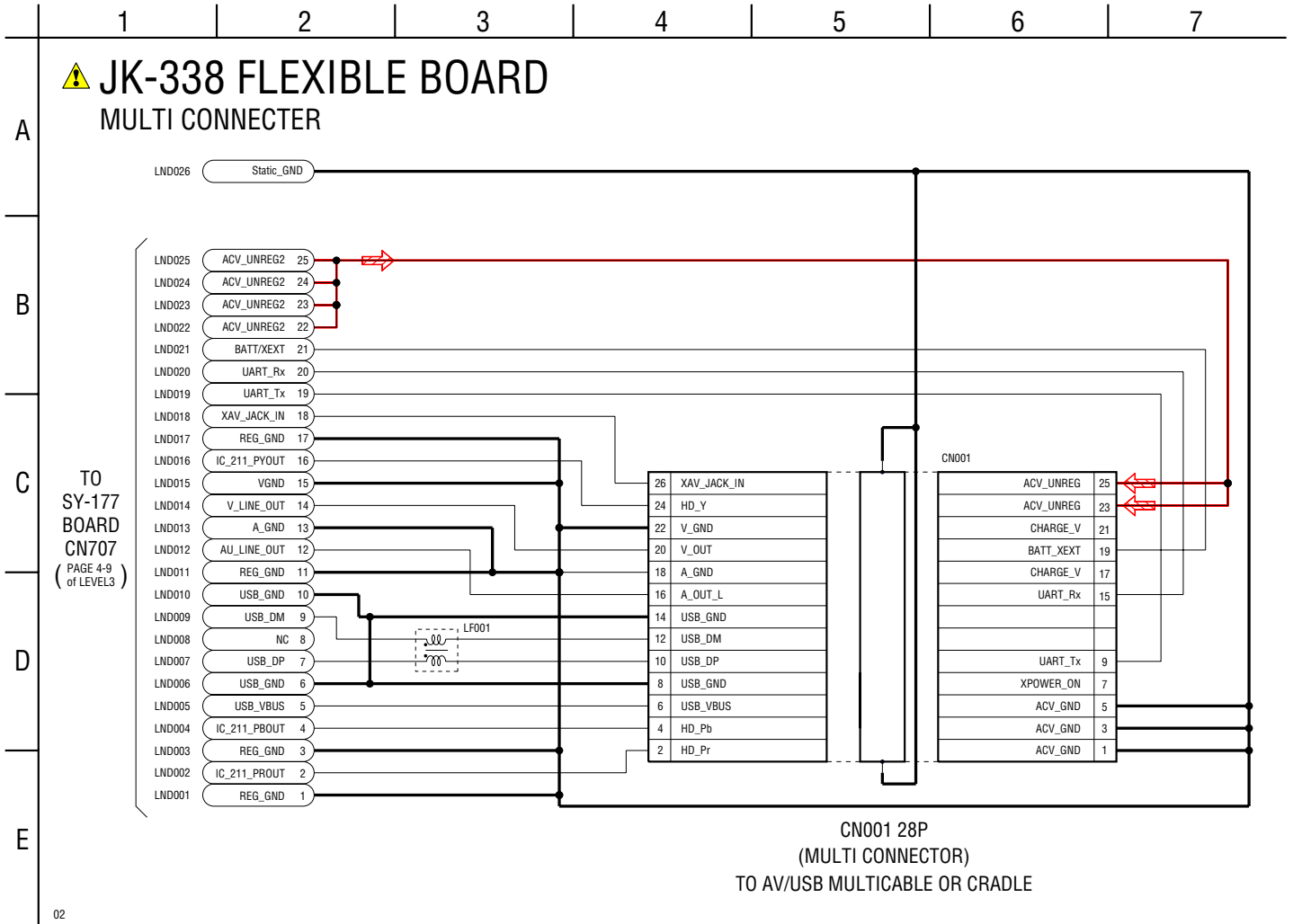
TO
SY-177
BOARD
CN301
(PAGE4-5
of LEVEL3)

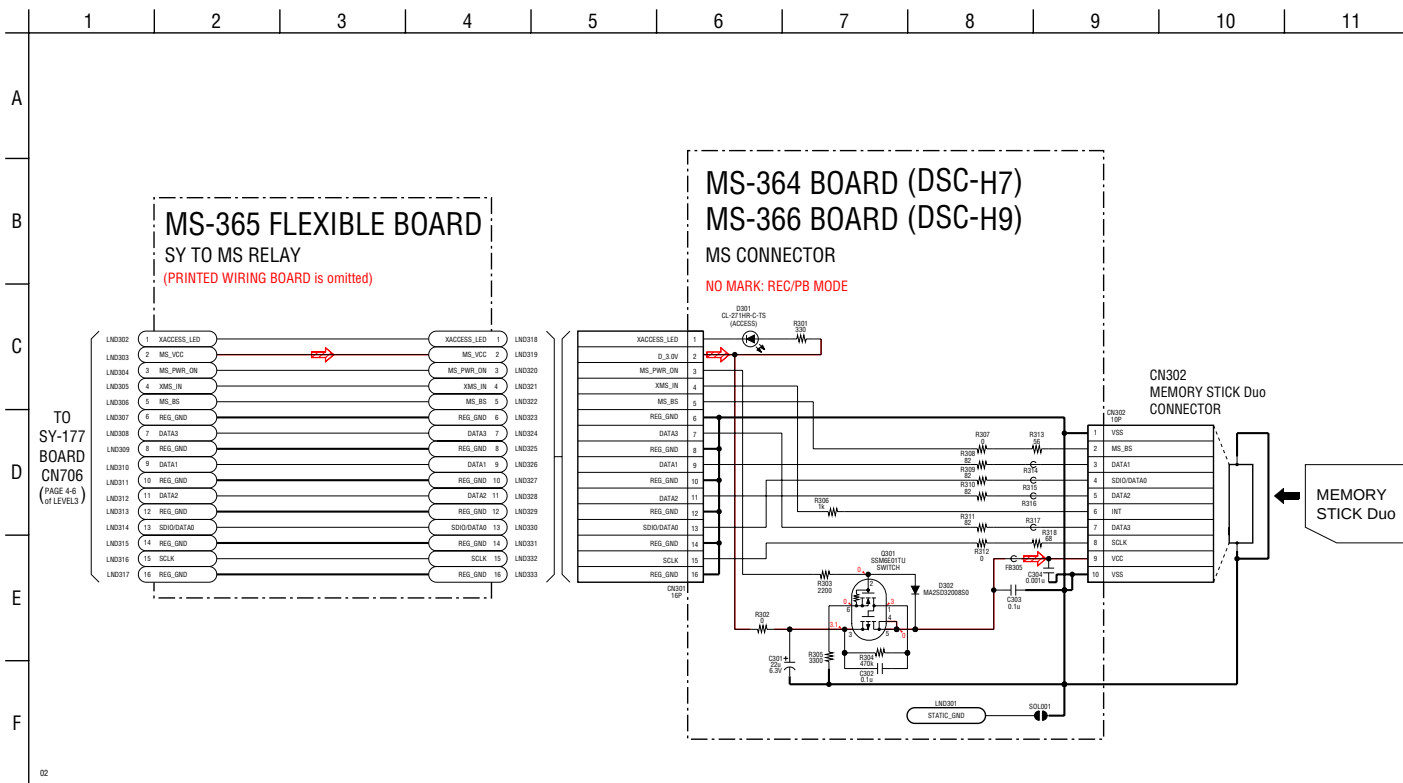


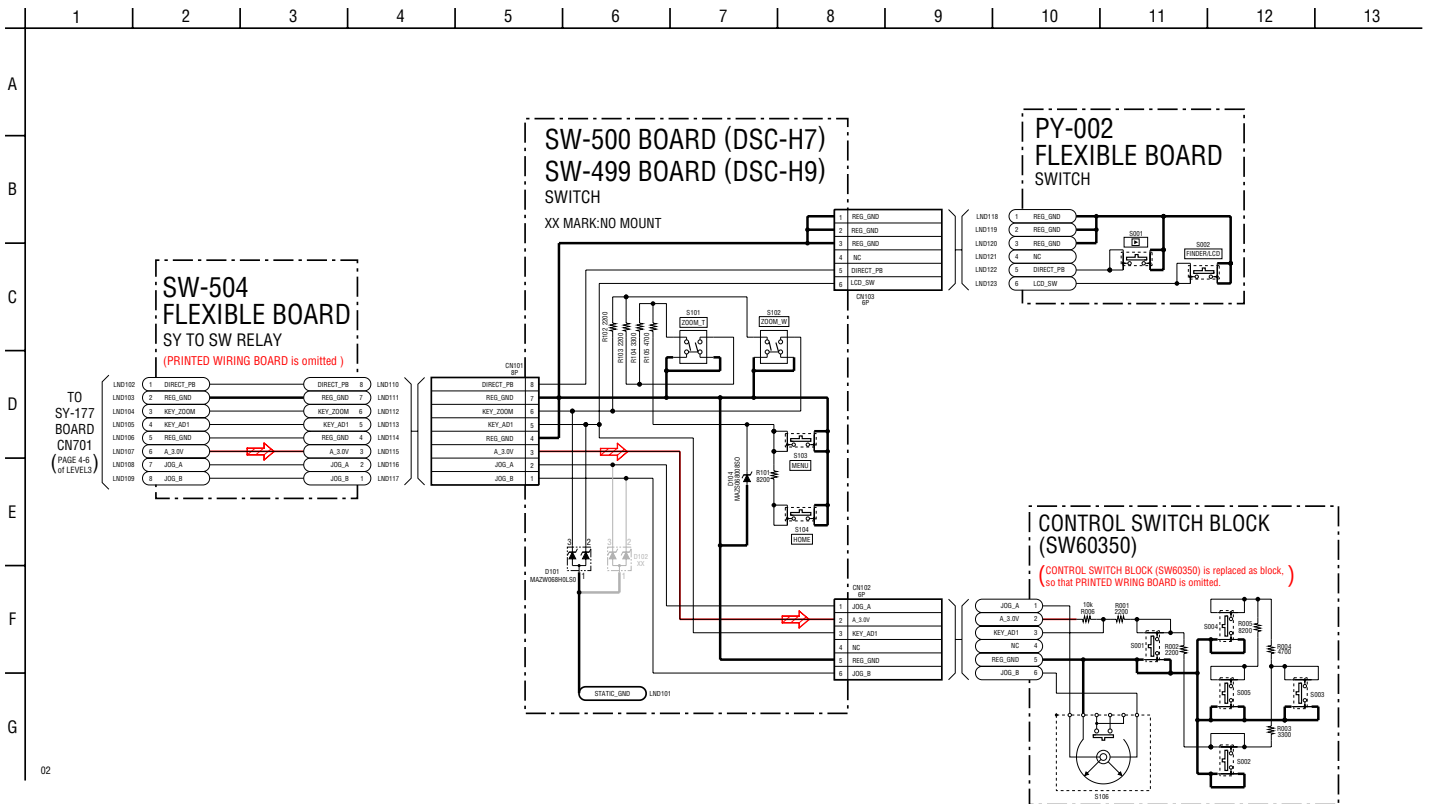
Schematic diagrams of the SY-177 board is not shown.
Pages from 4-4 to 4-10 are not shown.



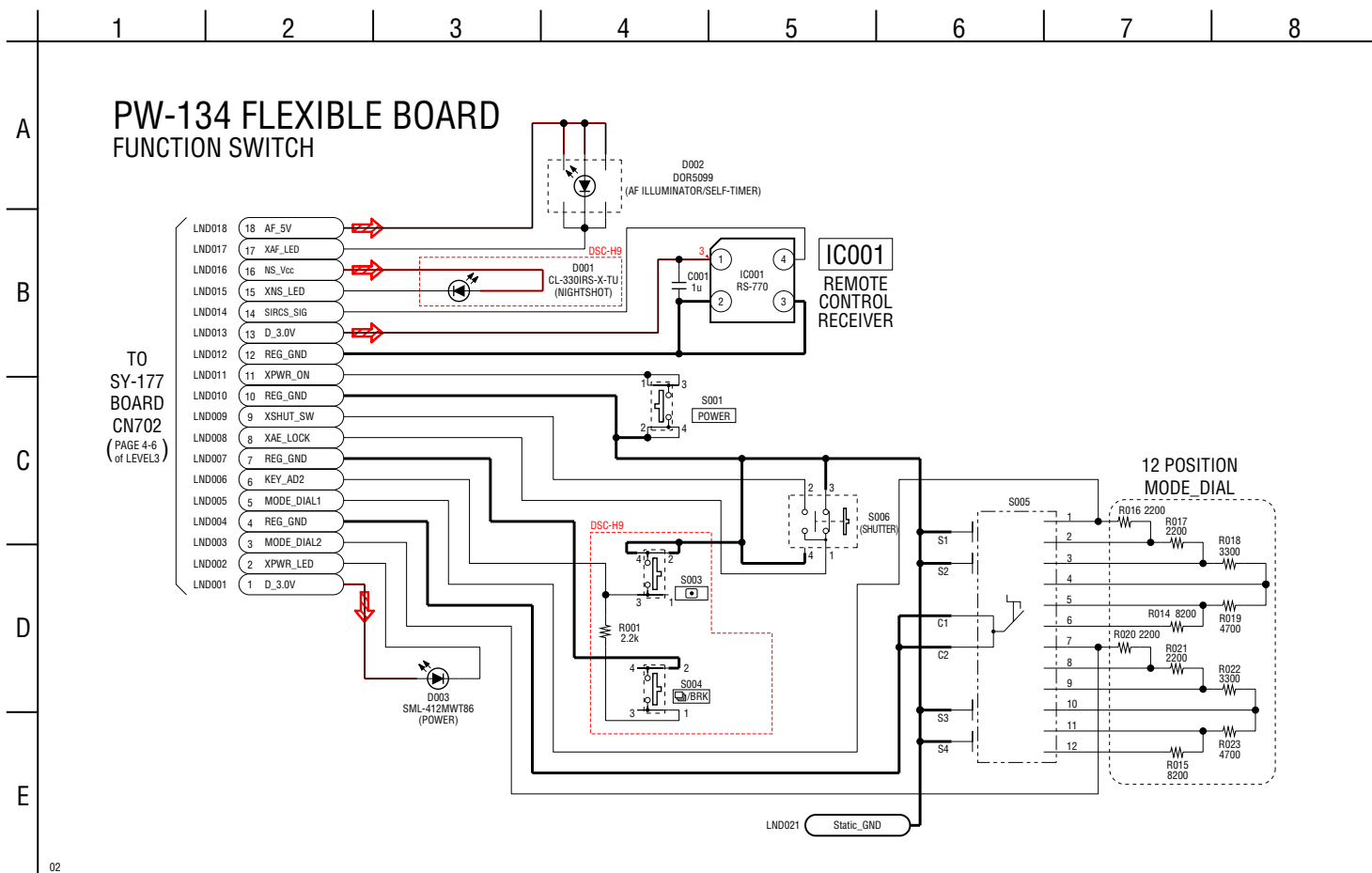
• Refer to page 4-2 for mark Δ.







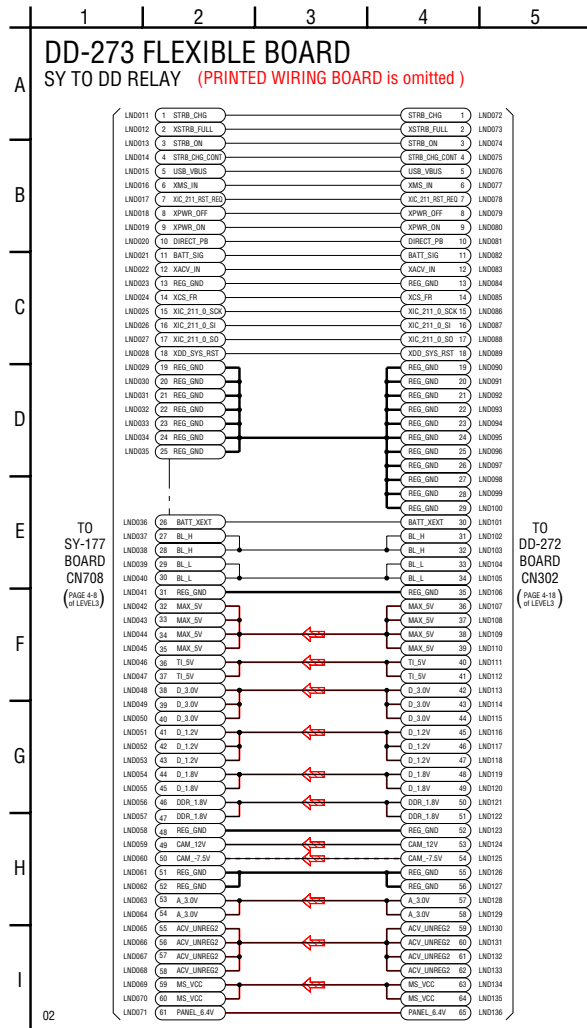
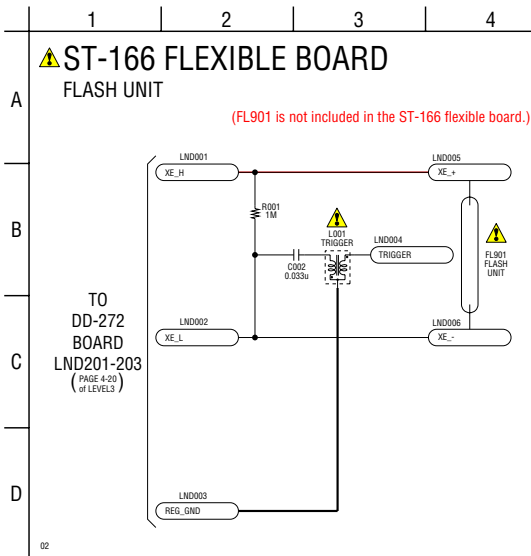
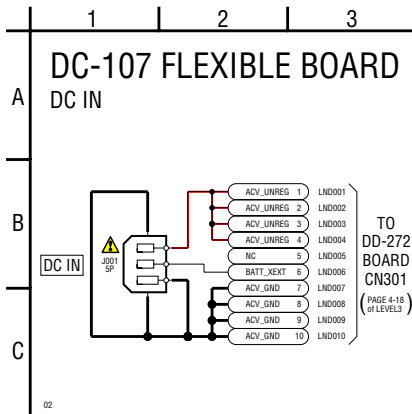
The diagram shows the PL-046 BOARD (DSC-H7) and PL-047 BOARD (DSC-H9) PLUNGER. It includes a connection to the SY-177 BOARD CN704 (PAGE 4-6 of LEVEL3) and a connection to the FLEXIBLE FLAT CABLE (PL-002). The PL-046 BOARD is connected to the PL-047 BOARD via a 6P connector (CN201). The PL-047 BOARD is connected to the PL-002 cable via a 6P connector (CN201). The PL-047 BOARD also includes a PLUNGER (RY201) and a PLUNGER (S201).



02

Schematic diagrams of the DD-272 board is not shown.
Pages from 4-18 to 4-20 are not shown.

• Refer to page 4-2 for mark Δ.



4-3. PRINTED WIRING BOARDS

Link

CD-703 FLEXIBLE BOARD	PY-002 FLEXIBLE BOARD
CK-180 BOARD: DSC-H7	SW-499 BOARD: DSC-H9
CK-181 FLEXIBLE BOARD: DSC-H7	SW-500 BOARD: DSC-H7
CK-179 BOARD: DSC-H9	PL-046 BOARD: DSC-H7
CK-182 FLEXIBLE BOARD: DSC-H9	PL-047 BOARD: DSC-H9
JK-338 BOARD	PW-134 FLEXIBLE BOARD
MS-364 BOARD: DSC-H7	DC-107 FLEXIBLE BOARD
MS-366 BOARD: DSC-H9	ST-166 FLEXIBLE BOARD

[COMMON NOTE FOR PRINTED WIRING BOARDS](#)

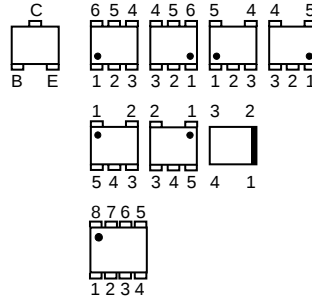
4-3. PRINTED WIRING BOARDS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS

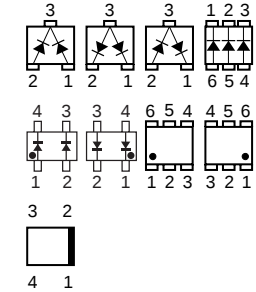
-  : Uses unleaded solder.
-  : Circuit board
-  : Flexible board
-  : Pattern from the side which enables seeing.
-  : pattern of the rear side
(The other layers' patterns are not indicated)
- Through hole is omitted.
- There are a few cases that the part printed on diagram isn't mounted in this model.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

- Chip parts.

Transistor



Diode

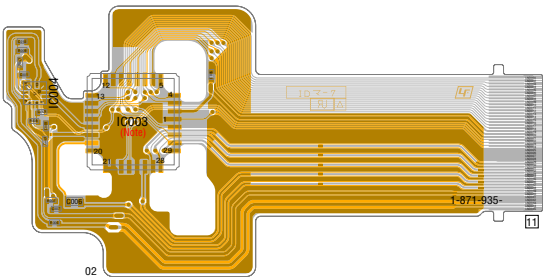


Printed wiring boards of the SY-177 and DD-272 boards are not shown.
Pages from 4-23 to 4-24 are not shown.

CD-703 (2 layers), CK-180 (2 layers), Ck-181 (1 layer)

 : Uses unleaded solder.

CD-703 FLEXIBLE BOARD (Note)



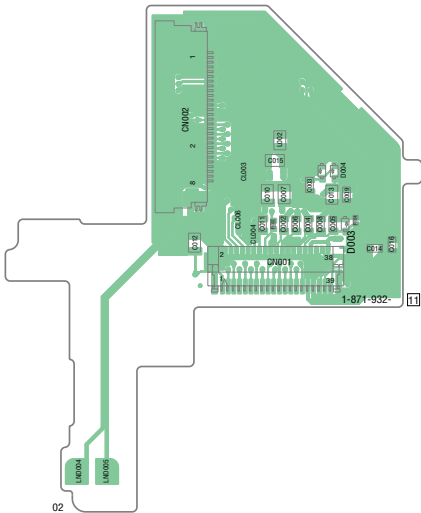
Note: CD-703 flexible board and IC003 are not supplied, they are included in CCD BLOCK ASSY.

DSC-H7

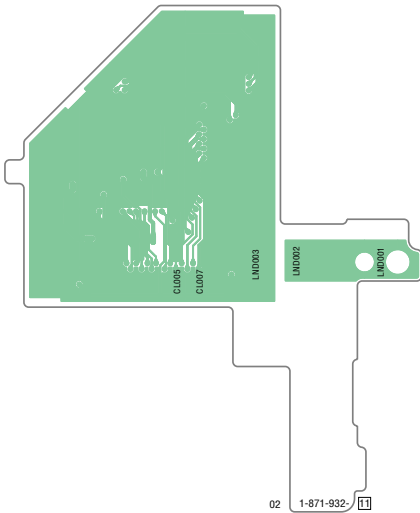
CK-181 FLEXIBLE BOARD



CK-180 BOARD (SIDE A)

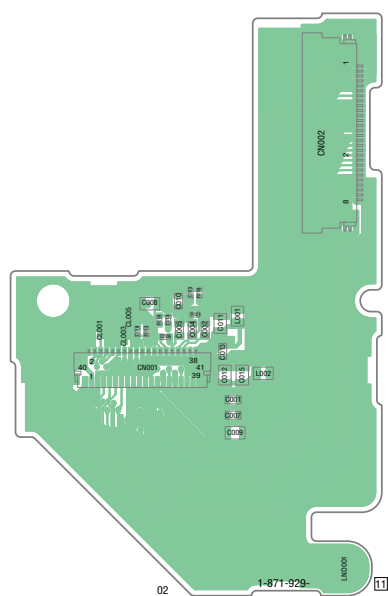


CK-180 BOARD (SIDE B)



4 : Uses unleaded solder.

CK-179 BOARD (SIDE A)



CK-179 BOARD (SIDE B)



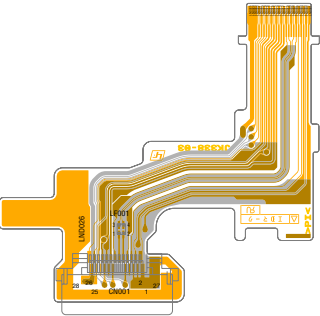
CK-182 FLEXIBLE BOARD



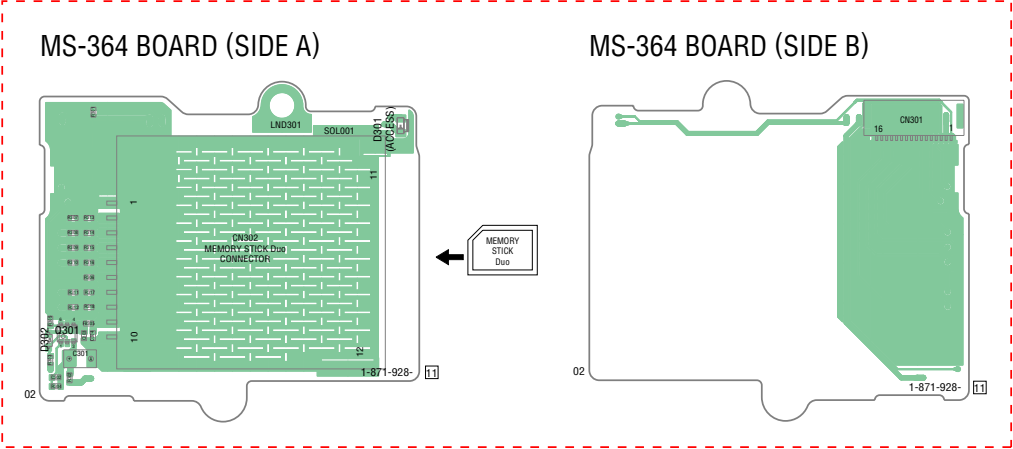
JK-338 (2 layers), MS-364 (2 layers), MS-366 (2 layers)

 : Uses unleaded solder.

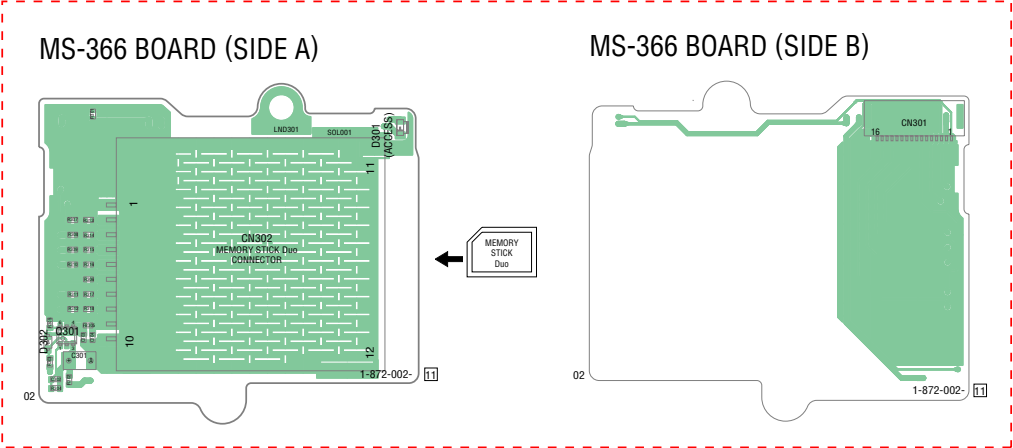
JK-338 FLEXIBLE BOARD



DSC-H7

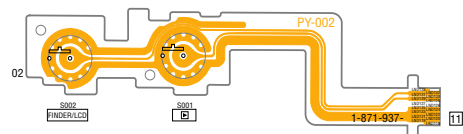


DSC-H9



PY-002 (1 layer), SW-499 (2 layers), SW-500 (2 layers)
⚡ : Uses unleaded solder.

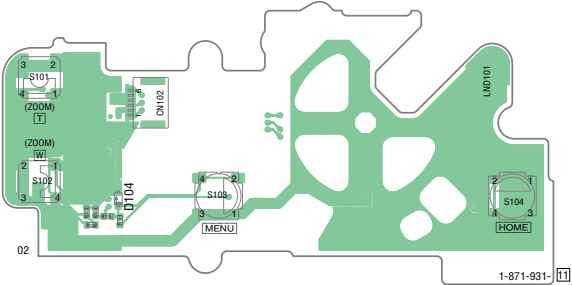
PY-002 FLEXIBLE BOARD



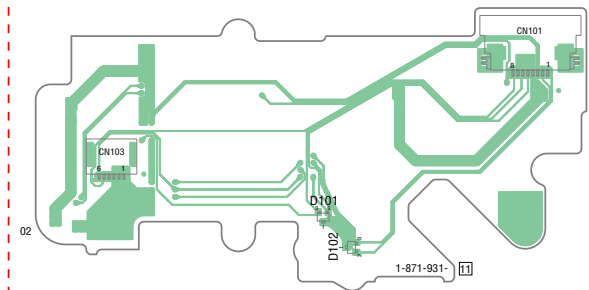
Note: S001 and S002 are not supplied, but they are included in the PY-002 flexible board.

DSC-H9

SW-499 BOARD (SIDE A)

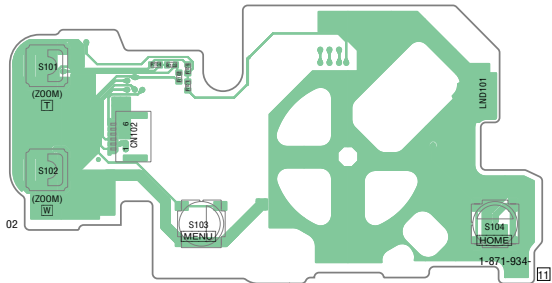


SW-499 BOARD (SIDE B)

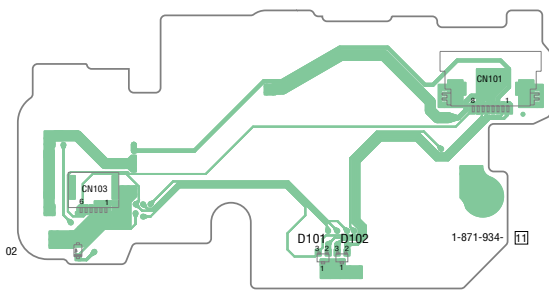


DSC-H7

SW-500 BOARD (SIDE A)

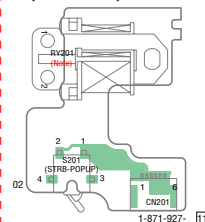


SW-500 BOARD (SIDE B)

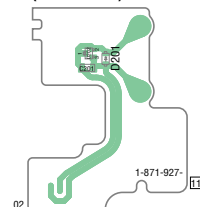


Lf : Uses unleaded solder.

PL-046 BOARD
(SIDE A)

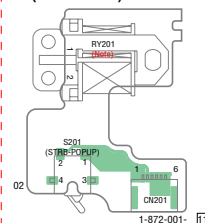


PL-046 BOARD
(SIDE B)

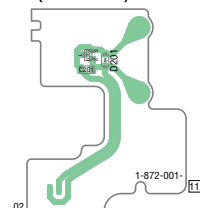


Note: RY201 is not included in the PL-046 complete board.

PL-047 BOARD
(SIDE A)



PL-047 BOARD
(SIDE B)



Note: RY201 is not included in the PL-047 complete board.

Note: FL901 is not included in the ST-166 flexible board.

PL-046, PL-047, PW-134, DD-273, ST-166

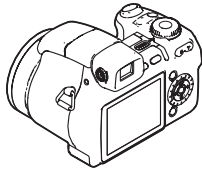
Mounted parts location of the SY-177 and DD-272 boards are not shown.
Page 4-30 to 4-31 is not shown.

5. REPAIR PARTS LIST

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

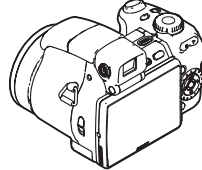
Link

EXPLODED VIEWS



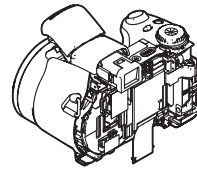
A

OVERALL SECTION:DSC-H7



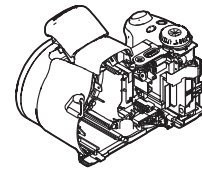
B

OVERALL SECTION:DSC-H9



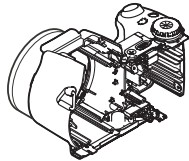
C

CABINET (FRONT) SECTION-1



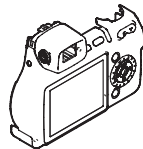
D

CABINET (FRONT) SECTION-2



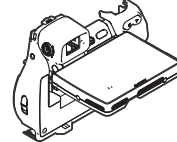
E

CABINET (FRONT) SECTION-3



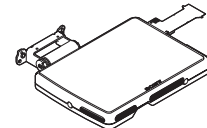
F

CABINET (REAR) SECTION:DSC-H7



G

CABINET (REAR) SECTION:DSC-H9



H

LCD SECTION:DSC-H9

Link

ELECTRICAL PARTS LIST

ACCESSORIES

• CD-703 FLEXIBLE BOARD C	• JK-338 BOARD A B	• PY-002 FLEXIBLE BOARD F G
• CK-179 BOARD:DSC-H9 H	• MS-364 BOARD:DSC-H7 D	• ST-166 FLEXIBLE BOARD D
• CK-180 BOARD:DSC-H7 F	• MS-365 FLEXIBLE BOARD D	• SW-499 BOARD:DSC-H9 G
• CK-181 FLEXIBLE BOARD:DSC-H7 F	• MS-366 BOARD:DSC-H9 D	• SW-500 BOARD:DSC-H7 F
• CK-182 FLEXIBLE BOARD:DSC-H9 H	• PL-046 BOARD:DSC-H7 D	• SW-504 FLEXIBLE BOARD F G
• DC-107 FLEXIBLE BOARD D	• PL-047 BOARD:DSC-H9 D	
• DD-273 FLEXIBLE BOARD D	• PW-134 FLEXIBLE BOARD E	

5. REPAIR PARTS LIST

5. REPAIR PARTS LIST

NOTE:

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

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

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

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

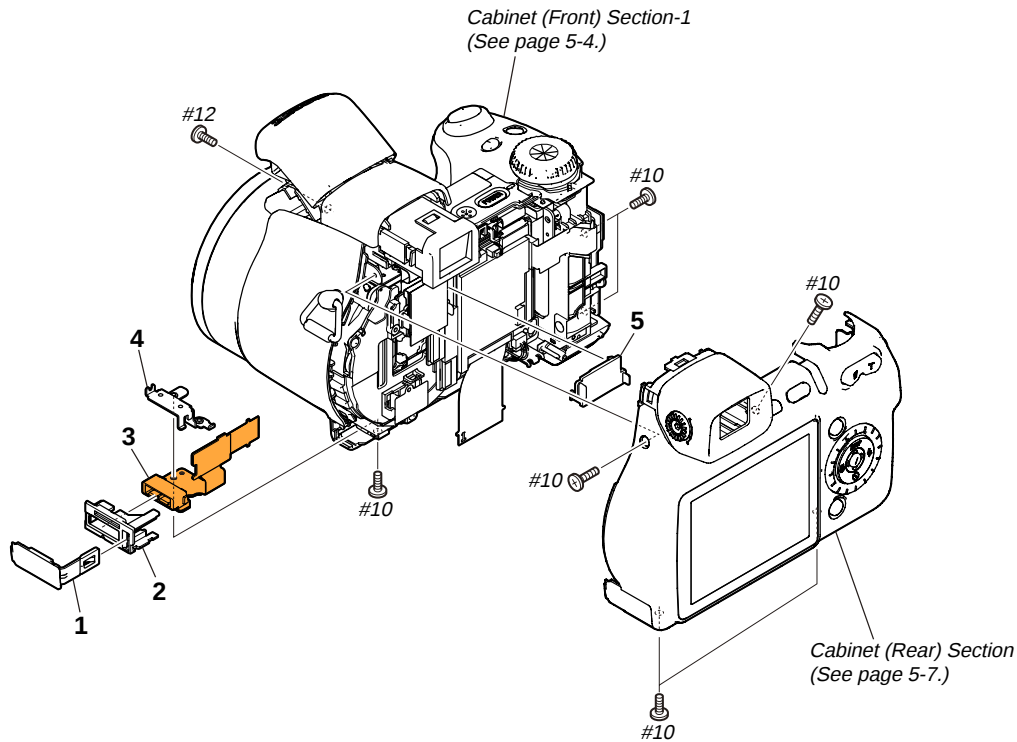
5. REPAIR PARTS LIST

DISASSEMBLY

HARDWARE LIST

5-1. EXPLODED VIEWS

5-1-1. OVERALL SECTION : DSC-H7



Ref. No.	Part No.	Description
1	3-106-776-01	LID, JACK (SILVER)
1	3-106-776-11	LID, JACK (BLACK)
* 2	3-106-777-01	HOLDER, MULTI (SILVER)
* 2	3-106-777-11	HOLDER, MULTI (BLACK)
3	A-1251-450-A	JK-338 BOARD, COMPLETE

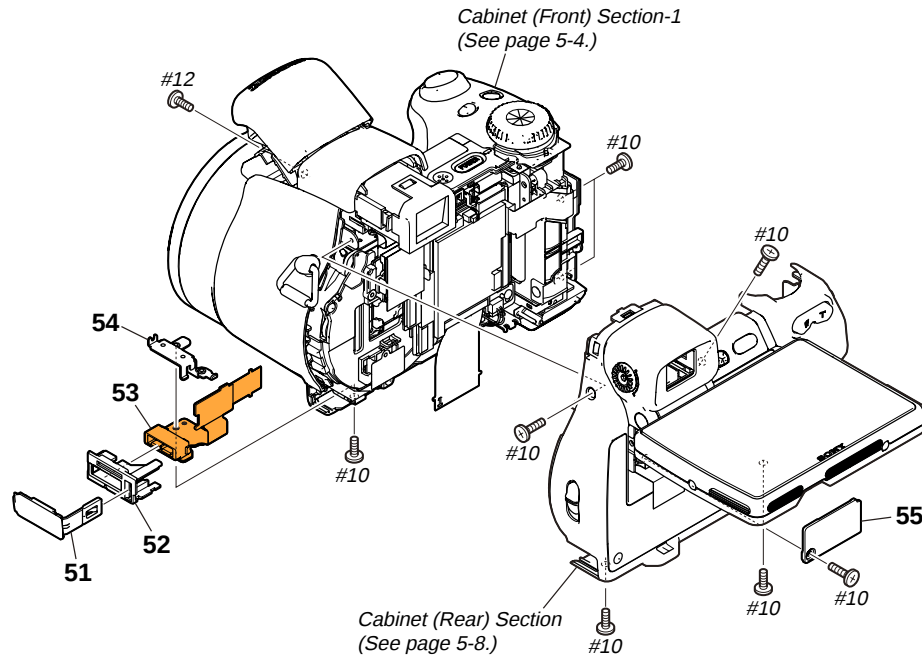
Ref. No.	Part No.	Description
* 4	3-106-778-01	PLATE, MULTI FIXED
* 5	3-106-780-01	HOLDER, FPC (H7)
#10	2-599-475-31	SCREW (M1.7) (Silver)
#12	3-080-204-21	SCREW, TAPPING, P2 (Black)

5. REPAIR PARTS LIST

5-1-2. OVERALL SECTION : DSC-H9

DISASSEMBLY

HARDWARE LIST



Ref. No.	Part No.	Description
51	3-106-776-01	LID, JACK (SILVER)
51	3-106-776-11	LID, JACK (BLACK)
* 52	3-106-777-01	HOLDER, MULTI (SILVER)
* 52	3-106-777-11	HOLDER, MULTI (BLACK)
53	A-1251-450-A	JK-338 BOARD, COMPLETE
* 54	3-106-778-01	PLATE, MULTI FIXED

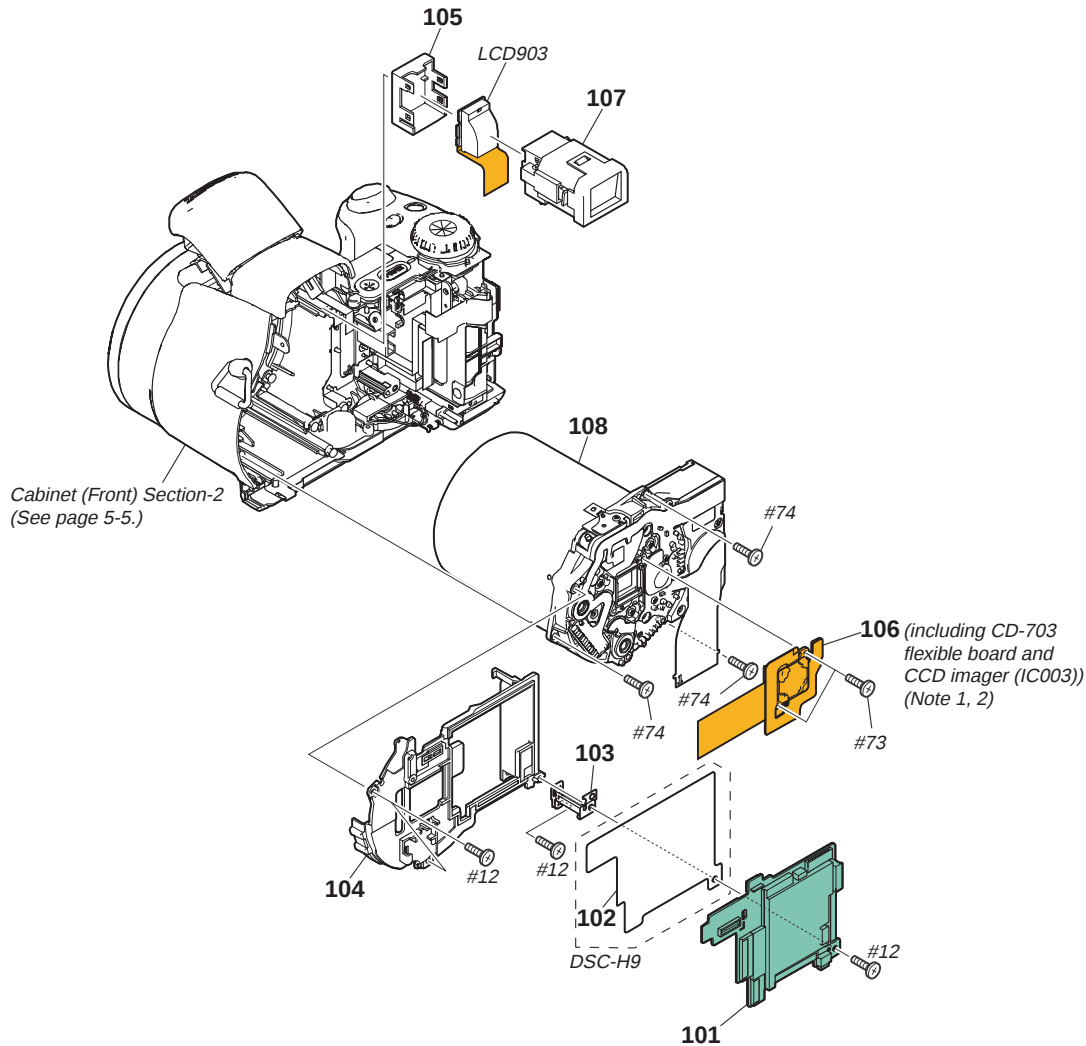
Ref. No.	Part No.	Description
* 55	3-106-782-01	LID, SY BLIND (SILVER)
* 55	3-106-782-11	LID, SY BLIND (BLACK)
#10	2-599-475-31	SCREW (M1.7) (Silver)
#12	3-080-204-21	SCREW, TAPPING, P2 (Black)

5. REPAIR PARTS LIST

DISASSEMBLY

HARDWARE LIST

5-1-3. CABINET (FROMT) SECTION-1



Note 1: CCD部組はマウント済D-703 フレキシブル基板を含みます。

Note 2: イメージャ交換は4-2ページの Precautions for Replacement of Imageを必ずお読みください。

Note 1: CCD block assembly is including CD-703 flexible completed board.

Note 2: Be sure to read "Precautions for Replacement of Imager" on page 4-2.

Ref. No.	Part No.	Description
101	A-1256-807-A	SY-177 BOARD, COMPLETE (SERVICE) (H7)
101	A-1256-808-A	SY-177 BOARD, COMPLETE (SERVICE) (H9)
* 102	3-211-271-01	SHEET, SY RADIATION, (H9)
* 103	3-106-773-01	PLATE, SY GROUND
* 104	3-106-772-01	FRAME, SY
* 105	3-106-681-01	RETAINER, MODULE
106	A-1251-208-A	CCD BLOCK ASSY
107	X-2177-453-1	VF ASSY

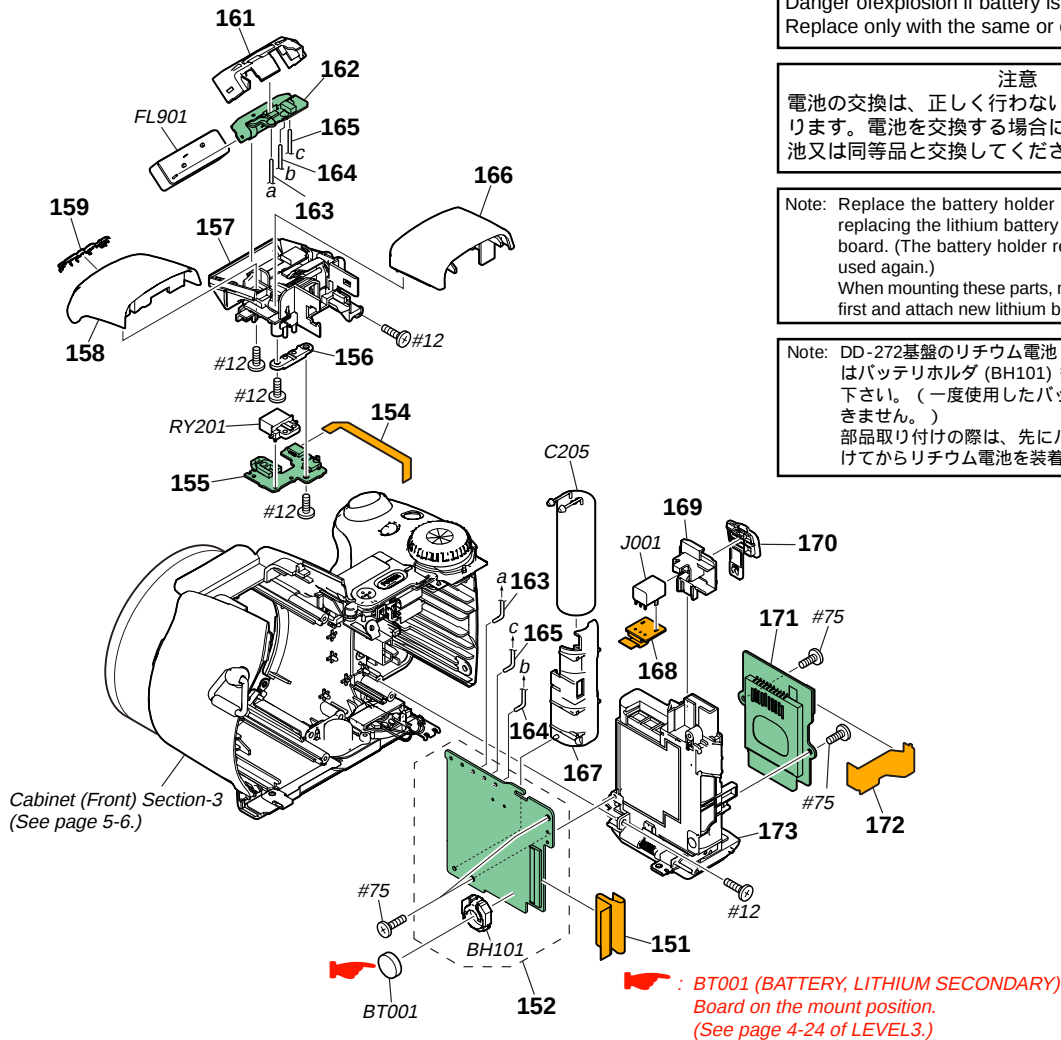
Ref. No.	Part No.	Description
108	A-1268-104-A	LENS BLOCK ASSY (SERVICE USE)
LCD903	1-802-033-12	LCD MODULE
#12	3-080-204-21	SCREW, TAPPING, P2 (Black)
#73	3-086-156-61	SCREW B1.2 (Black)
#74	2-666-551-31	SCREW, TAPPING, P2 (Silver)

5. REPAIR PARTS LIST

DISASSEMBLY

HARDWARE LIST

5-1-4. CABINET (FRONT) SECTION-2



• Refer to page 5-1 for mark ▲.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
151	1-871-952-11	DD-273 FLEXIBLE BOARD	166	3-106-774-31	CABINET (UPPER) (BLACK) (H7)
152	A-1251-444-A	DD-272 BOARD, COMPLETE (H7)	167	3-106-650-01	HOLDER, CAPACITOR
152	A-1251-454-A	DD-272 BOARD, COMPLETE (H9)	168	1-871-941-11	DC-107 FLEXIBLE BOARD
154	1-833-691-11	CABLE, FLEXIBLE FLAT (PL-002)	169	3-106-649-01	HOLDER, DC (SILVER)
155	A-1251-447-A	PL-046 BOARD, COMPLETE (H7)	169	3-106-649-11	HOLDER, DC (BLACK)
155	A-1251-457-A	PL-047 BOARD, COMPLETE (H9)	170	3-106-779-01	LID, DC (SILVER)
* 156	3-106-689-01	RETAINER, SOLENOID	170	3-106-779-11	LID, DC (BLACK)
157	X-2177-454-1	BASE ASSY, ST	171	A-1251-448-A	MS-364 BOARD, COMPLETE (H7)
158	3-106-691-01	ST COVER (SILVER)	171	A-1251-458-A	MS-366 BOARD, COMPLETE (H9)
158	3-106-691-11	ST COVER (BLACK)	172	1-871-944-11	MS-365 FLEXIBLE BOARD
159	2-673-341-01	EMBLEM (320), ST (SILVER)	173	X-2177-455-1	HOLDER ASSY, BATTERY (SILVER)
159	2-673-341-11	EMBLEM (320), ST (BLACK)	173	X-2177-456-1	HOLDER ASSY, BATTERY (BLACK)
161	3-106-688-01	COVER, FL	▲ BH101	1-756-615-31	HOLDER, BATTERY
162	A-1251-449-A	ST-166 BOARD, COMPLETE	▲ BT001	1-756-134-12	BATTERY, STRAGE, LITHIUM ION
163	1-965-158-11	HARNESS (HN-042) (PINK)	▲ C205	1-114-341-11	CAP, ALUMINUM ELECT 180MF
164	1-965-159-11	HARNESS (HN-043) (WHITE)	▲ FL901	1-480-062-11	FLASH UNIT
165	1-965-160-11	HARNESS (HN-044) (BLUE)	▲ J001	1-817-331-11	DC JACK 5P (DC IN)
166	3-106-774-01	CABINET (UPPER) (SILVER) (H7)	▲ RY201	1-455-038-11	SOLENOID, PLUNGER
166	3-106-774-11	CABINET (UPPER) (SILVER) (H9)			
166	3-106-774-21	CABINET (UPPER) (BLACK) (H9)	#12	3-080-204-21	SCREW, TAPPING, P2 (Black)
			#75	2-666-551-01	SCREW, TAPPING, P2 (Silver)

CAUTION

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

注意

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

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

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

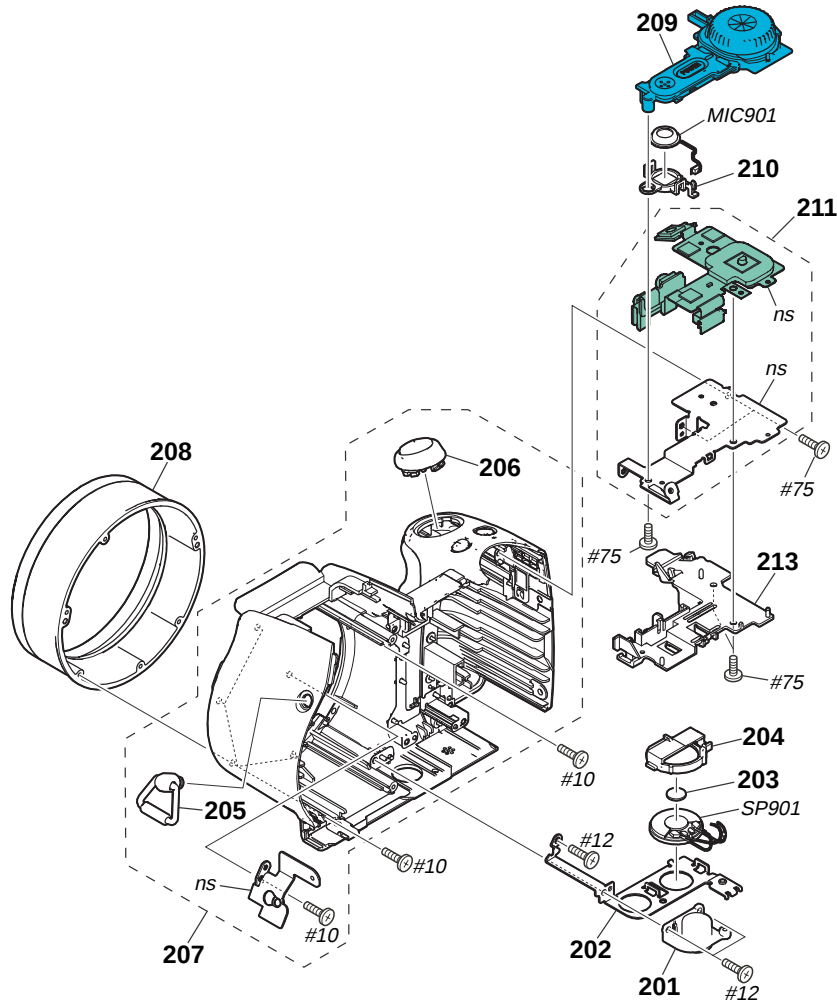
5. REPAIR PARTS LIST

DISASSEMBLY

HARDWARE LIST

5-1-5. CABINET (FROMT) SECTION-3

ns: not supplied



Ref. No.	Part No.	Description
201	3-106-766-01	SCREW, TRIPOD
* 202	3-106-767-01	FRAME, TRIPOD
* 203	3-106-770-01	CUSHION, SP
* 204	3-106-769-01	HOLDER, SP
205	3-106-615-01	BRACKET (350), STRAP
206	X-2177-461-1	RELEASE ASSY (SILVER)
206	X-2177-462-1	RELEASE ASSY (BLACK)
207	X-2177-463-1	CABINET (FRONT) ASSY (350) (SILVER) (H7)
207	X-2177-464-1	CABINET (FRONT) ASSY (350B) (BLACK) (H7)
207	X-2177-465-1	CABINET (FRONT) ASSY (450) (SILVER) (H9)
207	X-2177-466-1	CABINET (FRONT) ASSY (450B) (BLACK) (H9)
208	3-106-768-01	RING, LENS (SILVER)
208	3-106-768-11	RING, LENS (BLACK)

Ref. No.	Part No.	Description
209	X-2177-457-1	DIAL ASSY, MODE (SILVER)
209	X-2177-458-1	DIAL ASSY, MODE (BLACK)
210	3-106-679-01	HOLDER, MICROPHONE
211	A-1256-815-A	PW-134 BOARD, COMPLETE (SERVICE) (H7)
211	A-1256-816-A	PW-134 BOARD, COMPLETE (SERVICE) (H9)
* 213	3-106-677-01	BASE, RL
MIC901	1-542-728-11	MICROPHONE
SP901	1-825-262-71	LOUD SPEAKER (1.6CM)
#10	2-599-475-31	SCREW (M1.7) (Silver)
#12	3-080-204-21	SCREW, TAPPING, P2 (Black)
#75	2-666-551-01	SCREW, TAPPING, P2 (Silver)

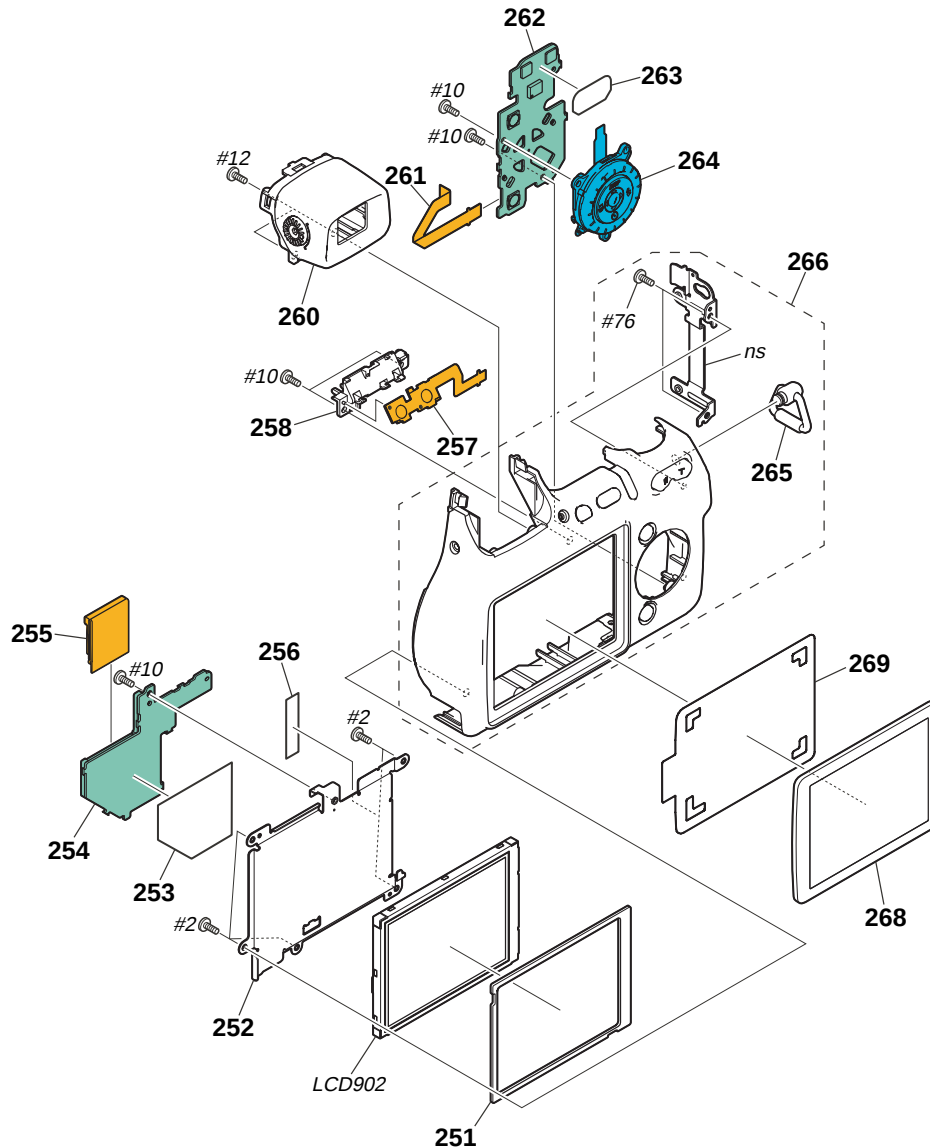
5. REPAIR PARTS LIST

DISASSEMBLY

HARDWARE LIST

5-1-6. CABINET (REAR) SECTION : DSC-H7

ns: not supplied



Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
251	3-106-736-01	CUSHION (350), LCD (H7)	264	1-480-173-21	SWITCH BLOCK, CONTROL (SW60350) (BLACK)
252	3-106-735-01	FRAME (350), LCD (H7)			
* 253	3-106-739-01	SHEET (350), INSULATING (H7)	* 265	3-106-615-01	BRACKET (350), STRAP
254	A-1251-445-A	CK-180 BOARD, COMPLETE (H7)	266	X-2177-449-1	CABINET (REAR) ASSY (350) (SILVER) (H7)
255	A-1251-453-A	CK-181 BOARD, COMPLETE (H7)	266	X-2177-450-1	CABINET (REAR) ASSY (350B) (BLACK) (H7)
			* 268	3-106-775-01	WINDOW (350), LCD (H7)
* 256	3-215-730-01	TAPE (1335) (H7)	269	3-106-614-01	SHEET (350), WINDOW ADHESIVE (H7)
257	1-871-937-11	PY-002 FLEXIBLE BOARD			
* 258	3-106-737-01	RETAINER, FL	* LCD902	1-802-379-21	LCDMODULE(LQ025A3DD01R) (H7)
260	X-2177-445-1	EYE CUP ASSY (350) (SILVER) (H7)			
260	X-2177-446-1	EYE CUP ASSY (350B) (BLACK) (H7)	#2	2-635-562-31	SCREW (M1.7) (Black)
			#10	2-599-475-31	SCREW (M1.7) (Silver)
261	1-872-388-11	SW-504 FLEXIBLE BOARD	#12	3-080-204-21	SCREW, TAPPING, P2 (Black)
262	A-1251-446-A	SW-500 BOARD, COMPLETE (H7)	#76	2-666-551-11	SCREW, TAPPING, P2 (Silver)
* 263	3-106-738-01	SHEET, MUFFLE			
264	1-480-173-11	SWITCH BLOCK, CONTROL (SW60350) (SILVER)			

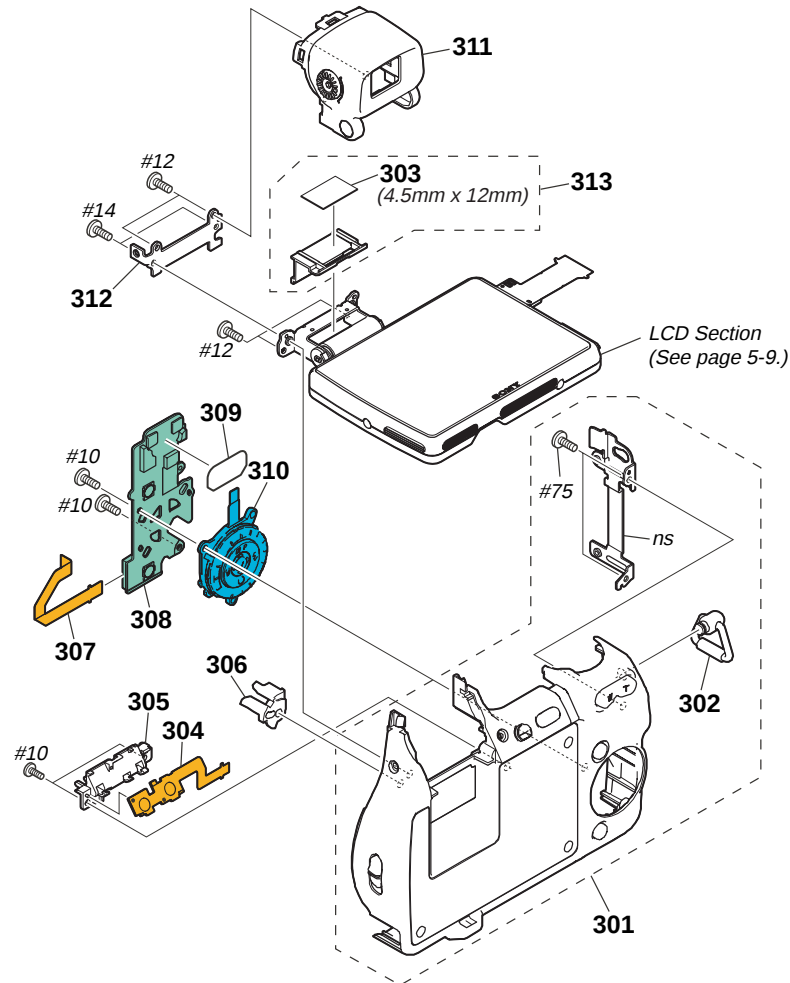
5. REPAIR PARTS LIST

DISASSEMBLY

HARDWARE LIST

5-1-7. CABINET (REAR) SECTION : DSC-H9

ns: not supplied



CAUTION: 303番は、接着紙(2-649-300-01)を切って使用。

CAUTION:
For the part of 303, cut SHEET, ADHESIVE(2-649-300-01)
into the desired length and use it.

Ref. No.	Part No.	Description
301	X-2177-451-1	CABINET (REAR) ASSY (450) (SILVER) (H9)
301	X-2177-452-1	CABINET (REAR) ASSY (450B) (BLACK) (H9)
302	3-106-615-01	BRACKET (350), STRAP
303	CAUTION	SHEET, ADHESIVE
304	1-871-937-11	PY-002 FLEXIBLE BOARD
305	3-106-737-01	RETAINER, FL
306	3-106-742-01	ARM (UPPER), NS (H9)
307	1-872-388-11	SW-504 FLEXIBLE BOARD
308	A-1251-456-A	SW-499 BOARD, COMPLETE (H9)
309	3-106-738-01	SHEET, MUFFLE
310	1-480-173-11	SWITCH BLOCK, CONTROL (SW60350) (SILVER) (H9)

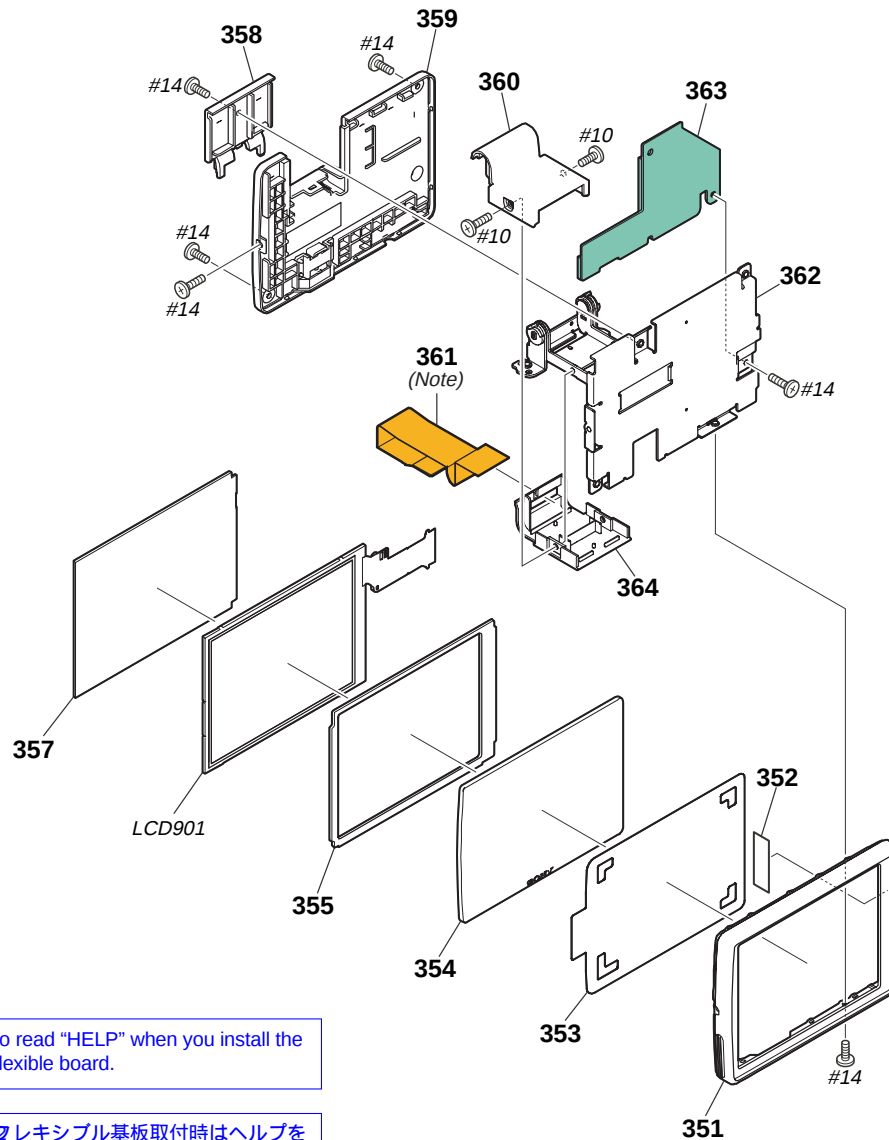
Ref. No.	Part No.	Description
310	1-480-173-21	SWITCH BLOCK, CONTROL (SW60350) (BLACK) (H9)
311	X-2177-447-1	EYE CUP ASSY (450) (SILVER) (H9)
311	X-2177-448-1	EYE CUP ASSY (450B) (BLACK) (H9)
* 312	3-106-741-01	SHEET METAL (450), DRIVING (H9)
313	X-2178-450-1	BLIND ASSY (B), CABINET (REAR) (BLACK) (H9)
313	X-2178-452-1	BLIND ASSY, CABINET (REAR) (SILVER) (H9)
#10	2-599-475-31	SCREW (M1.7) (Silver)
#12	3-080-204-21	SCREW, TAPPING, P2 (Black)
#14	2-599-475-11	SCREW (M1.7) (Silver)
#75	2-666-551-01	SCREW, TAPPING, P2 (Silver)

5. REPAIR PARTS LIST

DISASSEMBLY

HARDWARE LIST

5-1-8. LCD SECTION : DSC-H9



Note : Be sure to read "HELP" when you install the CK-182 flexible board.

Note : CK-182 レキシブル基板取付時はヘルプを必ずお読みください。

Ref. No.	Part No.	Description
351	3-106-586-01	CABINET (M), P (SILVER) (H9)
351	3-106-586-11	CABINET (M), P (BLACK) (H9)
* 352	3-106-605-01	SHEET, FLEXIBLE PROTECTION (H9)
353	3-106-587-01	SHEET, LCD WINDOW ADHESIVE (H9)
354	3-106-781-01	WINDOW, LCD (H9)
355	3-106-604-01	CUSHION, LCD (H9)
357	1-480-023-11	BLOCK, LIGHT GUIDE PLATE (3.0) (H9)
358	3-106-603-11	BLIND, HINGE (BLACK) (H9)
359	X-2177-441-1	CABINET (C) ASSY (B), P (BLACK) (H9)
360	3-106-602-11	COVER (M), HINGE (BLACK) (H9)

Ref. No.	Part No.	Description
360	3-106-602-01	COVER (M), HINGE (SILVER) (H9)
361	A-1251-460-A	CK-182 BOARD, COMPLETE (H9)
362	X-2177-444-1	HINGE ASSY (H9)
363	A-1251-455-A	CK-179 BOARD, COMPLETE (H9)
364	3-106-601-01	COVER (C), HINGE (SILVER) (H9)
364	3-106-601-11	COVER (C), HINGE (BLACK) (H9)
LCD901	A-1257-852-A	SERVICE, LCD BLOCK ASSY (H9)
#10	2-599-475-31	SCREW (M1.7) (Silver)
#14	2-599-475-11	SCREW (M1.7) (Silver)

5-2. ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description
	(Not supplied)	CD-703 FLEXIBLE BOARD

(CD-703 board and IC003 are not supplied, but this is included in CCD BLOCK ASSY.)		
< CAPACITOR >		
C001	1-164-943-81	CERAMIC CHIP 0.01UF 10% 16V
C003	1-100-505-11	CERAMIC CHIP 0.1UF 20% 16V
C005	1-125-777-11	CERAMIC CHIP 0.1UF 10% 10V
C006	1-107-826-11	CERAMIC CHIP 0.1UF 10% 16V
C007	1-164-943-81	CERAMIC CHIP 0.01UF 10% 16V
C008	1-164-943-81	CERAMIC CHIP 0.01UF 10% 16V
C009	1-100-505-11	CERAMIC CHIP 0.1UF 20% 16V
C010	1-164-943-81	CERAMIC CHIP 0.01UF 10% 16V
< IC >		
IC003	(Not supplied)	IC ICX636LQP-13
IC004	8-753-275-39	IC CXA3741UR-T9
< RESISTOR >		
R003	1-218-985-11	RES-CHIP 470K 5% 1/16W
R006	1-218-990-81	CONDUCTOR, CHIP (1005)
R007	1-218-986-11	RES-CHIP 560K 5% 1/16W
R008	1-220-212-11	RES-CHIP 300K 5% 1/16W
R009	1-218-982-11	RES-CHIP 270K 5% 1/16W
A-1251-455-A CK-179 BOARD, COMPLETE (H9)		

< CAPACITOR >		
C001	1-165-908-11	CERAMIC CHIP 1UF 10% 10V
C002	1-165-908-11	CERAMIC CHIP 1UF 10% 10V
C003	1-119-923-11	CERAMIC CHIP 0.047UF 10% 10V
C004	1-125-891-11	CERAMIC CHIP 0.47UF 10% 10V
C005	1-165-908-11	CERAMIC CHIP 1UF 10% 10V
C006	1-125-777-11	CERAMIC CHIP 0.1UF 10% 10V
C007	1-165-908-11	CERAMIC CHIP 1UF 10% 10V
C008	1-112-300-91	CERAMIC CHIP 4.7UF 10% 10V
C009	1-100-966-91	CERAMIC CHIP 4.7UF 10% 10V
C010	1-165-908-11	CERAMIC CHIP 1UF 10% 10V
C011	1-165-989-11	CERAMIC CHIP 10UF 10% 6.3V
C012	1-100-966-91	CERAMIC CHIP 10UF 20% 10V
C014	1-125-777-11	CERAMIC CHIP 0.1UF 10% 10V
< CONNECTOR >		
* CN001	1-821-248-11	CONNECTOR, FPC (ZIF) 39P
* CN002	1-816-959-51	FFC/FPC CONNECTOR (ZIF) 28P
< COIL >		
L001	1-400-588-11	INDUCTOR, CHIP 10UH (2012)
L002	1-400-588-11	INDUCTOR, CHIP 10UH (2012)
< RESISTOR >		
R004	1-218-946-11	RES-CHIP 270 5% 1/16W
R005	1-218-946-11	RES-CHIP 270 5% 1/16W

• Refer to page 5-1 for mark Δ.

DSC-H7/H9_L2

Ref. No.	Part No.	Description
	A-1251-445-A	CK-180 BOARD, COMPLETE (H7)

< CAPACITOR >		
C002	1-112-298-91	CERAMIC CHIP 1UF 10% 16V
C003	1-112-298-91	CERAMIC CHIP 1UF 10% 16V
C004	1-112-298-91	CERAMIC CHIP 1UF 10% 16V
C005	1-112-298-91	CERAMIC CHIP 1UF 10% 16V
C006	1-112-298-91	CERAMIC CHIP 1UF 10% 16V
C007	1-100-670-11	CERAMIC CHIP 4.7UF 20% 16V
C008	1-112-298-91	CERAMIC CHIP 1UF 10% 16V
C010	1-100-670-11	CERAMIC CHIP 4.7UF 20% 16V
C011	1-112-298-91	CERAMIC CHIP 1UF 10% 16V
C012	1-100-966-91	CERAMIC CHIP 10uF 20% 10V
C013	1-100-591-91	CERAMIC CHIP 1UF 10% 25V
C015	1-165-989-11	CERAMIC CHIP 10UF 10% 6.3V
C016	1-165-884-91	CERAMIC CHIP 2.2uF 10% 6.3V
< CONNECTOR >		
* CN001	1-817-544-71	CONNECTOR, FPC (ZIF) 39P
* CN002	1-816-959-51	FFC/FPC CONNECTOR (ZIF) 28P
< DIODE >		
D003	6-500-813-01	DIODE MA2SD32008S0
< COIL >		
L002	1-400-588-11	INDUCTOR 10UH
< RESISTOR >		
R002	1-218-965-11	RES, CHIP 10K 5% 1/16W
R004	1-218-989-11	RES, CHIP 1M 5% 1/16W
A-1251-453-A CK-181 BOARD, COMPLETE (H7)		

< CONNECTOR >		
CN001	1-778-596-21	CONNECTOR, BOARD TO BOARD 30P
A-1251-460-A CK-182 BOARD, COMPLETE (H9)		

< CONNECTOR >		
CN001	1-778-596-21	CONNECTOR, BOARD TO BOARD 30P
1-871-941-11 DC-107 FLEXIBLE BOARD		

< JACK >		
Δ J001	1-817-331-11	DC JACK 5P (DC IN)

Electrical parts list of DD-272 board are not shown.
Pages 5-11 to 5-12 is not shown.

Note: Be sure to read "Precautions for Replacement of Imager" on page 4-2 when changing the imager.

Ref. No.	Part No.	Description
	1-871-952-11	DD-273 FLEXIBLE BOARD *****
△	A-1251-450-A	JK-338 BOARD, COMPLETE *****
< CONNECTOR >		
CN001	(Not supplied)	CONNECTOR, MULTIPLE (SOCKET)
< LINE FILTER >		
LF001	1-456-583-11	COMMON MODE CHOKE COIL
	A-1251-448-A	MS-364 BOARD, COMPLETE (H7) *****
< CAPACITOR >		
C301	1-119-750-11	TANTAL. CHIP 22uF 20% 6.3V
C302	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C303	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C304	1-164-937-11	CERAMIC CHIP 0.001uF 10% 50V
< CONNECTOR >		
CN301	1-816-646-51	FFC/CONNECTOR, FPC (LIF) 16P
* CN302	1-819-990-21	MEMORY STICK DUO CONNECTOR 10P
< DIODE >		
D301	6-501-216-01	DIODE CL-271HR-C-TS (ACCESS)
D302	6-500-813-01	DIODE MA2SD32008S0
< FERRITE BEAD >		
FB305	1-469-580-11	INDUCTOR, FERRITE BEAD (1005)
< TRANSISTOR >		
Q301	6-550-576-01	TRANSISTOR SSM6E01TU
< RESISTOR >		
R301	1-218-947-11	RES-CHIP 330 5% 1/16W
R302	1-218-990-81	CONDUCTOR, CHIP 0
R303	1-218-957-11	RES-CHIP 2.2K 5% 1/16W
R304	1-218-985-11	RES-CHIP 470K 5% 1/16W
R305	1-218-959-11	RES-CHIP 3.3K 5% 1/16W
R306	1-218-953-11	RES-CHIP 1K 5% 1/16W
R307	1-218-990-81	CONDUCTOR, CHIP 0
R308	1-218-940-11	RES-CHIP 82 5% 1/16W
R309	1-218-940-11	RES-CHIP 82 5% 1/16W
R310	1-218-940-11	RES-CHIP 82 5% 1/16W
R311	1-218-940-11	RES-CHIP 82 5% 1/16W
R312	1-218-990-81	CONDUCTOR, CHIP 0
R313	1-218-938-11	RES-CHIP 56 5% 1/16W
R314	1-469-580-11	FERRITE 0UH
R315	1-469-580-11	FERRITE 0UH
R316	1-469-580-11	FERRITE 0UH
R317	1-469-580-11	FERRITE 0UH
R318	1-218-939-11	RES-CHIP 68 5% 1/16W

Ref. No.	Part No.	Description
	1-871-944-11	MS-365 FLEXIBLE BOARD *****
	A-1251-458-A	MS-366 BOARD, COMPLETE (H9) *****
< CAPACITOR >		
C301	1-119-750-11	TANTAL. CHIP 22uF 20% 6.3V
C302	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C303	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C304	1-164-937-11	CERAMIC CHIP 0.001uF 10% 50V
< CONNECTOR >		
CN301	1-816-646-51	FFC/CONNECTOR, FPC (LIF) 16P
* CN302	1-819-990-21	MEMORY STICK DUO CONNECTOR 10P
< DIODE >		
D301	6-501-216-01	DIODE CL-271HR-C-TS (ACCESS)
D302	6-500-813-01	DIODE MA2SD32008S0
< FERRITE BEAD >		
FB305	1-469-580-21	INDUCTOR, FERRITE BEAD (1005)
< TRANSISTOR >		
Q301	6-550-576-01	TRANSISTOR SSM6E01TU
< RESISTOR >		
R301	1-218-947-11	RES-CHIP 330 5% 1/16W
R302	1-218-990-81	CONDUCTOR, CHIP 0
R303	1-218-957-11	RES-CHIP 2.2K 5% 1/16W
R304	1-218-985-11	RES-CHIP 470K 5% 1/16W
R305	1-218-959-11	RES-CHIP 3.3K 5% 1/16W
R306	1-218-953-11	RES-CHIP 1K 5% 1/16W
R307	1-218-990-81	CONDUCTOR, CHIP 0
R308	1-218-940-11	RES-CHIP 82 5% 1/16W
R309	1-218-940-11	RES-CHIP 82 5% 1/16W
R310	1-218-940-11	RES-CHIP 82 5% 1/16W
R311	1-218-940-11	RES-CHIP 82 5% 1/16W
R312	1-218-990-81	CONDUCTOR, CHIP 0
R313	1-218-938-11	RES-CHIP 56 5% 1/16W
R314	1-469-580-21	FERRITE 0UH
R315	1-469-580-21	FERRITE 0UH
R316	1-469-580-21	FERRITE 0UH
R317	1-469-580-21	FERRITE 0UH
R318	1-218-939-11	RES-CHIP 68 5% 1/16W

A-1251-447-A PL-046 BOARD, COMPLETE (H7)

(RY201 is not included in the PL-046 complete board.)

< CAPACITOR >		
C201	1-165-908-11	CERAMIC 1uF 10% 10V
< CONNECTOR >		
* CN201	1-817-554-51	CONNECTOR, FFC/FPC 6P

• Refer to page 5-1 for mark △.

PL-046**PL-047****PW-134****PY-002****ST-166****SW-499**

Ref. No.	Part No.	Description
		< DIODE >
D201	8-719-056-23	DIODE MA2S111-(K8).SO
		< PLUNGER >
△ RY201	1-455-038-11	SOLENOID, PLUNGER (Note)
		< SWITCH >
S201	1-786-179-31	SWITCH, PUSH (1KEY) (STRB-POPUP)
A-1251-457-A PL-047 BOARD, COMPLETE (H9)		

(RY201 is not included in the PL-047 complete board.)		
		< CAPACITOR >
C201	1-165-908-11	CERAMIC 1uF 10% 10V
		< CONNECTOR >
* CN201	1-817-554-51	CONNECTOR, FFC/FPC 6P
		< DIODE >
D201	8-719-056-23	DIODE MA2S111-(K8).SO
		< PLUNGER >
△ RY201	1-455-038-11	SOLENOID, PLUNGER (Note)
		< SWITCH >
S201	1-786-179-31	SWITCH, PUSH (1KEY) (STRB-POPUP)
A-1256-815-A PW-134 BOARD, COMPLETE (SERVICE) (H7)		
A-1256-816-A PW-134 BOARD, COMPLETE (SERVICE) (H9)		

		< CAPACITOR >
C001	1-125-837-91	CERAMIC CHIP 1uF 10% 6.3V
		< DIODE >
D001	6-500-512-01	DIODE CL-330IRS-X-TU (NIGHTSHOT) (H9)
D002	6-501-524-01	DIODE DOR5099
		(AF ILLUMINATOR/SELF-TIMER)
D003	6-501-030-01	DIODE SML-412MWT86 (POWER)
		< IC >
IC001	6-600-163-01	IC RS-770
		< RESISTOR >
R001	1-216-825-11	METAL CHIP 2.2K 5% 1/10W (H9)
R014	1-216-832-11	METAL CHIP 8.2K 5% 1/10W
R015	1-216-832-11	METAL CHIP 8.2K 5% 1/10W
R016	1-216-206-00	RES-CHIP 2.2K 5% 1/8W
R017	1-216-825-11	METAL CHIP 2.2K 5% 1/10W
R018	1-216-827-11	METAL CHIP 3.3K 5% 1/10W
R019	1-216-829-11	METAL CHIP 4.7K 5% 1/10W
R020	1-216-825-11	METAL CHIP 2.2K 5% 1/10W

• Refer to page 5-1 for mark △.

DSC-H7/H9_L2

Ref. No.	Part No.	Description
R021	1-216-825-11	METAL CHIP 2.2K 5% 1/10W
R022	1-216-827-11	METAL CHIP 3.3K 5% 1/10W
R023	1-216-065-91	RES-CHIP 4.7K 5% 1/10W
		< SWITCH >
S001	1-786-157-11	TACTILE SWITCH (POWER)
S003	1-786-157-11	TACTILE SWITCH (■) (H9)
S004	1-786-157-11	TACTILE SWITCH (■/BRK) (H9)
S005	1-798-036-21	ROTARY SWITCH (MODE DIAL)
S006	1-786-602-11	SWITCH, TACTILE (SHUTTER)
A-1251-449-A PY-002 FLEXIBLE BOARD		

(S001 and S002 are not supplied. But they are included in te PY-002 flexible board.)		
		< SWITCH >
S001	(Not supplied)	SWITCH (■) (Note)
S002	(Not supplied)	SWITCH (FINDER/LCD) (Note)
A-1251-449-A ST-166 BOARD, COMPLETE		

(FL901 is not included in the ST-166 complete board.)		
		< CAPACITOR >
* C002	1-112-832-21	CERAMIC CHIP 0.033uF 10% 250V
		< FLASH UNIT >
△ FL901	1-481-062-11	FLASH UNIT (Note)
		< COIL >
△ L001	1-456-193-11	COIL, TRIGGER
		< RESISTOR >
R001	1-216-121-11	RES-CHIP 1M 5% 1/10W
A-1251-456-A SW-499 BOARD, COMPLETE (H9)		

		< CONNECTOR >
CN101	1-816-684-51	CONNECTOR, FFC/FPC (ZIF) 8P
* CN102	1-817-554-51	CONNECTOR, FFC/FPC 6P
* CN103	1-817-554-51	CONNECTOR, FFC/FPC 6P
		< DIODE >
D101	6-500-776-01	DIODE MAZW068H0LS0
D104	8-719-056-54	DIODE MAZS068008S0
		< RESISTOR >
R101	1-218-964-11	RES-CHIP 8.2K 5% 1/16W
R102	1-218-957-11	RES-CHIP 2.2K 5% 1/16W
R103	1-218-957-11	RES-CHIP 2.2K 5% 1/16W
R104	1-218-959-11	RES-CHIP 3.3K 5% 1/16W
R105	1-218-961-11	RES-CHIP 4.7K 5% 1/16W

Ref. No.	Part No.	Description
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< SWITCH >

S101	1-786-819-22	TACTILE SWITCH (ZOOM T)
S102	1-786-819-22	TACTILE SWITCH (ZOOM W)
S103	1-786-157-11	TACTILE SWITCH (MENU)
S104	1-786-157-11	TACTILE SWITCH (HOME)

A-1251-446-A	SW-500 BOARD, COMPLETE (H7)	
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< CONNECTOR >

CN101	1-816-684-51	CONNECTOR, FFC/FPC (ZIF) 8P
* CN102	1-817-554-51	CONNECTOR, FFC/FPC 6P
* CN103	1-817-554-51	CONNECTOR, FFC/FPC 6P

< DIODE >

D101	6-500-776-01	DIODE MAZW068H0LS0
D104	8-719-056-54	DIODE MAZS068008SO

< RESISTOR >

R101	1-218-964-11	RES-CHIP	8.2K	5%	1/16W
R102	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R103	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R104	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R105	1-218-961-11	RES-CHIP	4.7K	5%	1/16W

< SWITCH >

S101	1-786-819-22	TACTILE SWITCH (ZOOM T)
S102	1-786-819-22	TACTILE SWITCH (ZOOM W)
S103	1-786-157-11	TACTILE SWITCH (MENU)
S104	1-786-157-11	TACTILE SWITCH (HOME)

1-872-388-11	SW-504 FLEXIBLE BOARD	
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Electrical parts list of SY-177 board are not shown. Pages 5-16 to 5-19 is not shown.
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Note:

- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

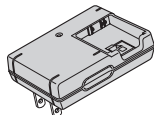
- The parts numbers of such as a cabinet are also appeared in this section. Refer to the parts number mentioned below the name of parts to order.

Abbreviation

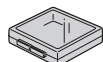
AR : Argentine model	CH : Chinese model	HK : Hong Kong model	KR : Korea model
AUS: Australian model	CND: Canadian model	J : Japanese model	NE : North European model
BR : Brazilian model	EE : East European model	JE : Tourist model	TW : Taiwan model

Checking supplied accessories.

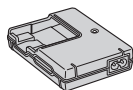
Note 1: This item is supplied with the unit as an accessory, but is not prepared as a service part.



Battery charger
(BC-CSGB/BC-CSGB/BC-CSGC)
△ 1-479-791-12 (J)
△ 1-479-791-22 (US, CND)



Battery case
(Note 1)



△ 1-479-791-32 (EXCEPT US, CND, J)

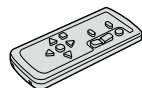
Rechargeable battery pack (NP-BG1)
(Note 1)



USB, A/V cable for multi-use terminal
1-829-866-51

Power cord (mains lead)
(except US, CND and J)

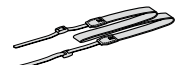
- △ 1-827-945-61 (AUS)
- △ 1-832-121-31 (CH)
- △ 1-827-826-41 (AEP, E)
- △ 1-828-050-31 (JE)
- △ 1-823-947-71 (KR)
- △ 1-832-106-31 (AR)
- △ 1-832-169-31 (UK, HK)



Remote Control (RMT-835)
1-478-655-61



Lens cap
X-2177-459-1



Shoulder strap
2-629-892-11



Lens hood
3-106-732-01



Adaptor ring
3-106-733-01



FIXED RING
3-106-734-01



Lens cap strap
3-979-194-31



Conversion adaptor
△ 1-569-008-12(E)



CD-ROM
(Cyber-shot application software/
"Cyber-shot Handbook"/
"Cyber-shot Step-up Guide")
3-196-618-01 (EXCEPT US, J)
3-196-619-01 (US)
3-209-351-01 (J)



Conversion adaptor
△ 1-569-007-12(JE)



Instruction Manual
3-196-623-01 (JAPANESE) (J)
3-196-623-11 (ENGLISH)
(CND, AEP, E, UK, HK, AUS, JE)
3-196-623-21 (FRENCH, ITALIAN) (CND, AEP)
3-196-623-31 (SPANISH, PORTUGUESE) (AEP, E, AR, JE)
3-196-623-41 (GERMAN, DUTCH) (AEP)
3-196-623-51 (TRADITIONAL CHINESE,
SIMPLIFIED CHINESE) (E, HK, CH, JE)
3-196-623-61 (RUSSIAN) (AEP)
3-196-623-71 (ARABIC, PERSIAN) (E)
3-196-623-81 (KOREAN) (KR, JE)
3-196-623-91 (POLISH, CZECH) (AEP)
3-196-624-11 (HUNGARIAN, SLOVAK) (AEP)
3-196-624-21 (SWEDISH, FINNISH) (AEP)
3-196-624-31 (NORWEGIAN, DANISH) (AEP)
3-196-624-41 (THAI, MALAY) (E)
3-196-624-51 (TURKISH, GREEK) (AEP)
3-196-624-61 (ENGLISH, SPANISH) (US)



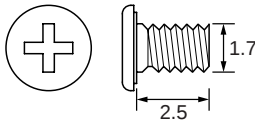
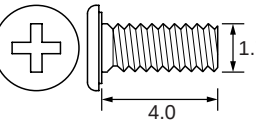
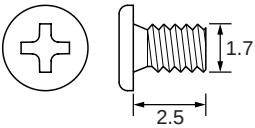
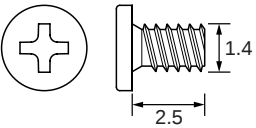
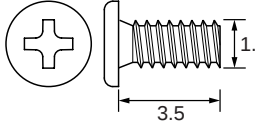
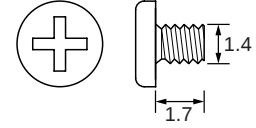
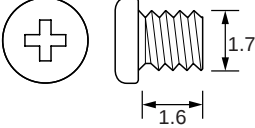
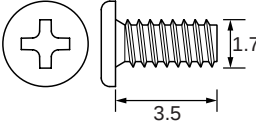
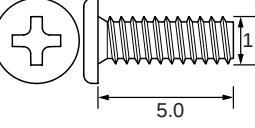
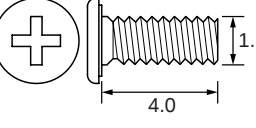
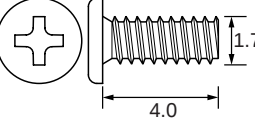
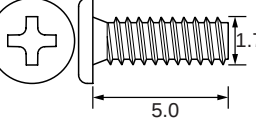
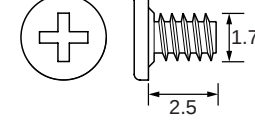
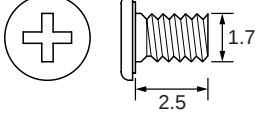
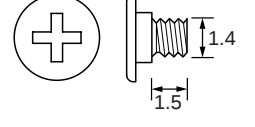
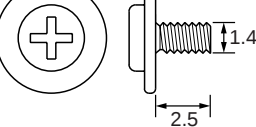
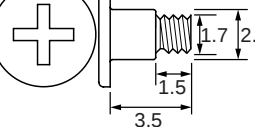
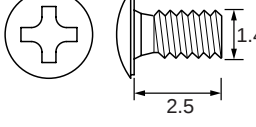
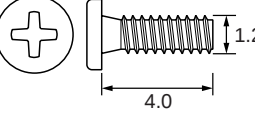
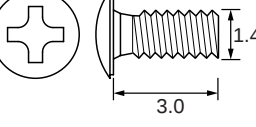
Cyber-shot Handbook(PDF)

The CD-ROM supplied contains all of language version of the Instruction Manual in pdf (Cyber-shot Handbook.pdf) for printing.

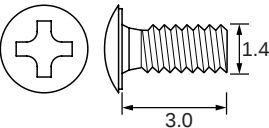
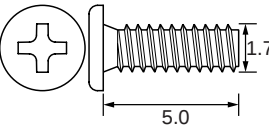
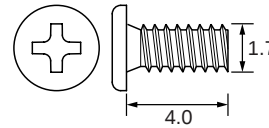
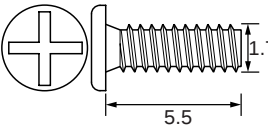
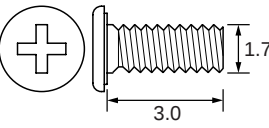
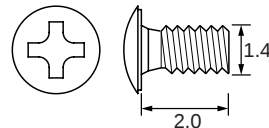
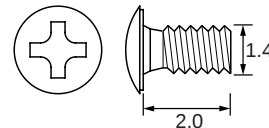
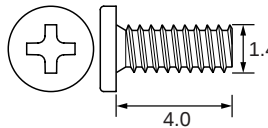
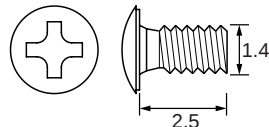
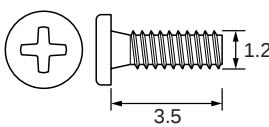
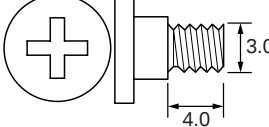
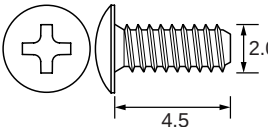
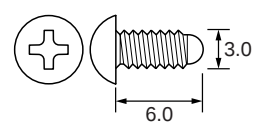
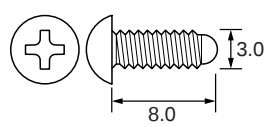
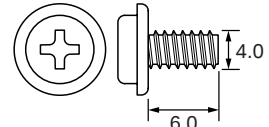
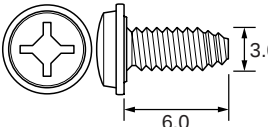
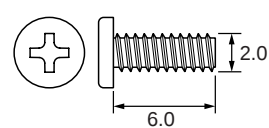
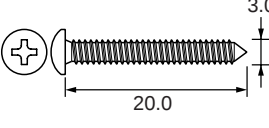
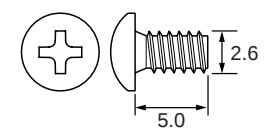
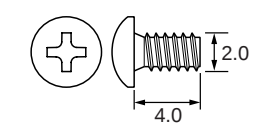
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- 3-196-620-31 (ITALIAN)
- 3-196-620-41 (SPANISH)
- 3-196-620-51 (PORTUGUESE)
- 3-196-620-61 (GERMAN)
- 3-196-620-71 (DUTCH)
- 3-196-620-81 (TRADITIONAL CHINESE)
- 3-196-620-91 (SIMPLIFIED CHINESE)
- 3-196-621-11 (RUSSIAN)
- 3-196-621-21 (ARABIC)
- 3-196-621-31 (PERSIAN)
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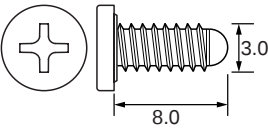
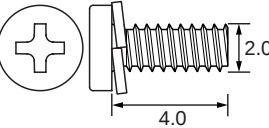
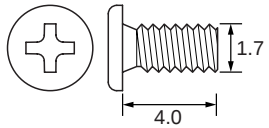
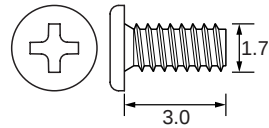
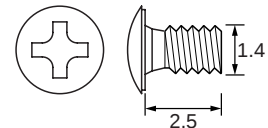
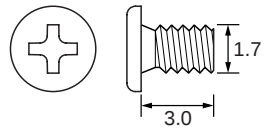
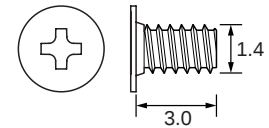
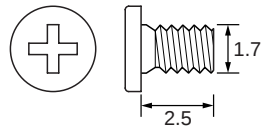
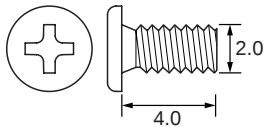
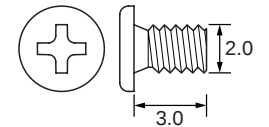
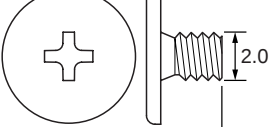
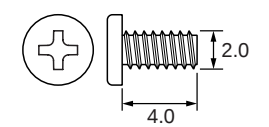
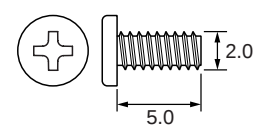
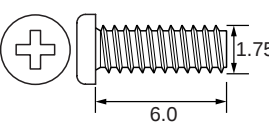
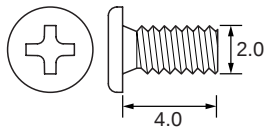
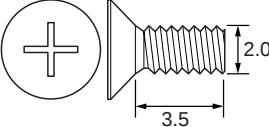
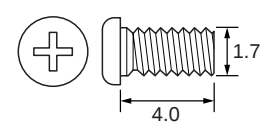
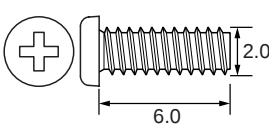
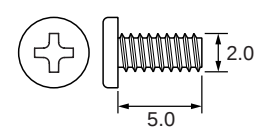
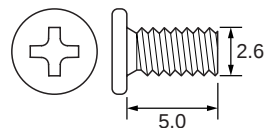
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#5: M1.7 X 3.5 (Tapping) (Black) 3-080-204-01 	#6: M1.4 X 1.7 (Silver) 2-598-474-01 	#7: M1.7 X 1.6 (Black) 7-627-552-18 	#8: M1.7 X 3.5 (Tapping) (Silver) 3-078-890-01 
#9: M1.7 X 5.0 (Tapping) (Silver) 3-078-890-21 	#10: M1.7 X 4.0 (Silver) 2-599-475-31 	#11: M1.7 X 4.0 (Tapping) (Silver) 3-078-890-11 	#12: M1.7 X 5.0 (Tapping) (Black) 3-080-204-21 
#13: M1.7 X 2.5 (Tapping) (Silver) 3-085-397-01 	#14: M1.7 X 2.5 (Silver) 2-599-475-11 	#15: M1.4 X 1.5 (Silver) 3-062-214-01 	#16: M1.4 X 2.5 (Silver) 2-586-337-01 
#17: M1.7 X 1.5 (Silver) 2-586-389-01 	#18: M1.4 X 2.5 (Silver) 2-635-591-21 	#19: M1.2 X 4.0 (Tapping) (Red) 3-086-156-21 	#20: M1.4 X 3.0 (Silver) 2-635-591-31 

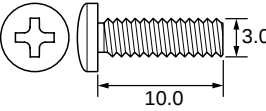
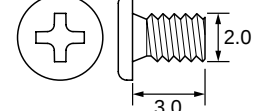
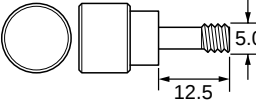
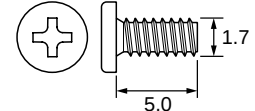
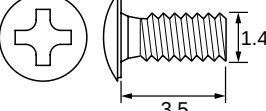
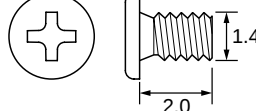
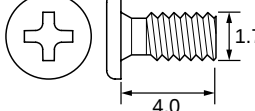
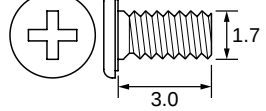
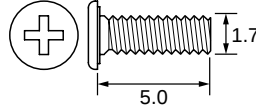
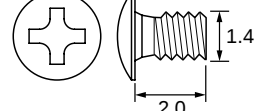
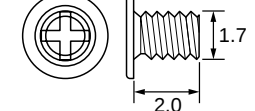
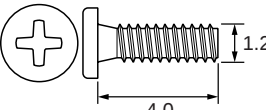
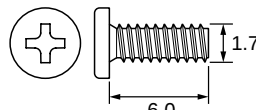
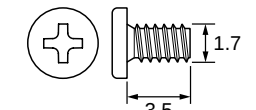
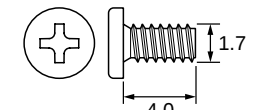
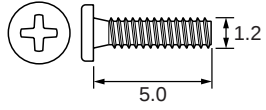
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#25: M1.7 X 3.0 (Black) 2-635-562-21 	#26: M1.4 X 2.0 (Silver) 2-635-591-11 	#27: M1.4 X 2.0 (Black) 2-662-396-11 	#28: M1.4 X 4.0 (Tapping) (Dark Silver) 3-348-998-61 
#29: M1.4 X 2.5 (Black) 2-662-396-01 	#30: M1.2 X 4.0 (Tapping) (White) 3-086-156-11 	#31: M3.0 X 4.0 (Silver) 2-102-434-01 	#32: M2.0 X 4.5 (Tapping) (Silver) 2-102-498-01 
#33: M3.0 X 6.0 (Silver) 3-077-331-21 	#34: M3.0 X 8.0 (Black) 3-077-331-41 	#35: M4.0 X 6.0 (Tapping) (Silver) 3-975-291-02 	#36: M3.0 X 6.0 (Silver) 4-886-821-11 
#37: M2.0 X 6.0 (Tapping) (Black) 3-080-206-31 	#38: M3.0 X 20.0 (Tapping) (Silver) 7-685-651-79 	#39: M2.6 X 5.0 (Tapping) (Black) 7-685-791-09 	#40: M2.0 X 4.0 (Tapping) (Silver) 7-685-851-04 

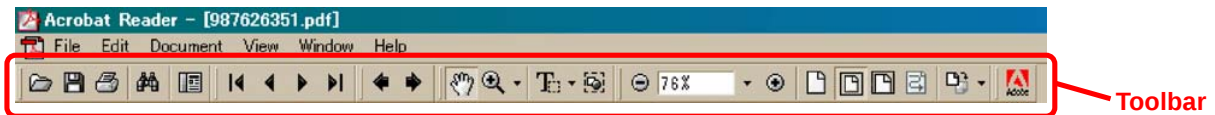
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#45: M1.4 X 2.5 (Silver) 2-587-151-01 	#46: M1.7 X 3.0 (Red) 2-660-401-11 	#47: M1.4 X 3.0 (Tapping) (Silver) 2-665-774-01 	#48: M1.7 X 2.5 (Silver) 3-973-497-91 
#49: M2.0 X 4.0 (Black) 2-630-005-31 	#50: M2.0 X 3.0 (Red) 2-891-494-11 	#51: M2.0 X 2.5 (Silver) 3-073-686-01 	#52: M2.0 X 4.0 (Tapping) (Black) 3-080-206-11 
#53: M2.0 X 5.0 (Tapping) (Black) 3-080-206-21 	#54: M1.75 X 6.0 (Tapping) (Black) 3-318-203-11 	#55: M2.0 X 4.0 (Silver) 2-655-582-11 	#56: M2.0 X 3.5 (Silver) 3-067-187-11 
#57: M1.7 X 4.0 (Black) 7-627-852-18 	#58: M2.0 X 6.0 (Tapping) (Silver) 3-719-408-11 	#59: M2.0 X 5.0 (Tapping) (Silver) 3-080-205-21 	#60: M2.6 X 5.0 (Black) 3-061-062-11 

HARDWARE LIST (4/4)

#61: M3.0 X 10.0 (Black) 7-682-549-09 	#62: M2.0 X 3.0 (Silver) 3-080-202-21 	#63: M5.0 X 12.5 (Black) 3-060-811-21 	#64: M1.7 X 5.0 (Tapping) (Silver) 2-666-551-21 
#65: M1.4 X 3.5 (Silver) 2-635-591-01 	#66: M1.4 X 1.4 (Silver) 2-635-591-41 	#67: M1.4 X 2.0 (Silver) 3-389-523-16 	#68: M1.7 X 4.0 (Silver) 2-655-581-01 
#69: M1.7 X 3.0 (Silver) 2-599-475-21 	#70: M1.7 X 5.0 (Silver) 2-599-475-41 	#71: M1.4 X 2.0 (Red) 3-208-537-01 	#72: M1.7 X 2.0 (Silver) 4-663-621-41 
#73: M1.2 X 4.0 (Tapping) (Black) 3-086-156-61 	#74: M1.7 X 6.0 (Tapping) (Silver) 2-666-551-31 	#75: M1.7 X 3.5 (Tapping) (Silver) 2-666-551-01 	#76: M1.7 X 4.0 (Tapping) (Silver) 2-666-551-11 
#77: M1.2 X 5.0 (Tapping) (Silver) 3-086-156-31 			

[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:

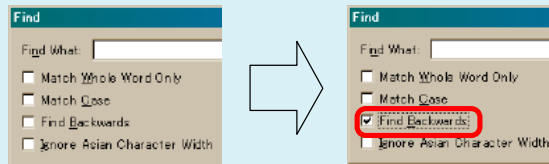
This function allows you to go and back between circuit diagram and printed circuit board diagram, and accordingly it will be convenient for the voltage check.

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 Backwards" and then click the "Find".



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

Application to the Service Manual:

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

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

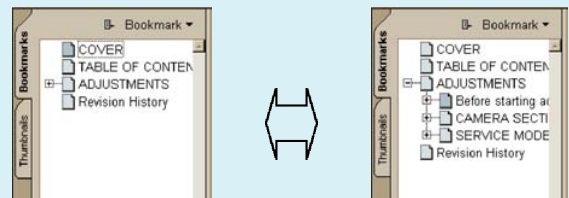
Moving with link

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

Moving with bookmark:

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

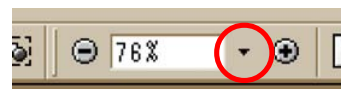
(To go back to original state, click )



Zooming or rotating the screen display

"Zoom in/out"

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



"Rotate"

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

Application to the Service Manual:

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

Switching a page

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

Revision History

Ver.	Date	History	Contents	S.M. Rev. issued
1.0	2007.04	Official Release	—	—