DSC-H3

SERVICE MANUAL

LEVEL 2

Ver. 1.0 2007.08
Revision History

Internal memory
ON BOARD

Photo: Black

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

Link

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

- Precaution on Replacing the SY-185 Board

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.

DIGITAL STILL CAMERA

SONY®

DSC-H3_L2
9-852-211-31

Sony EMCS Co.

2007H0500-1

Published by Kohda TEC

Self Diagnosis Supported model

Cyber-shot

MEMORY STICK ™

LITHIUM ION G TYPE

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 10 × zoom lens f = 6.3 – 63 mm (38 – 380 mm when converted to a 35 mm still camera) F3.5 – 4.4

Exposure control: Automatic exposure, Scene Selection (9 modes)

White balance: Automatic, Daylight, Cloudy, Fluorescent 1,2,3, Incandescent, Flash

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 Index) set to Auto): approx. 0.2 to 7.0 m (7 7/8 inches to 22 feet 11 5/8 inches) (W)/approx. 0.9 to 5.6 m (2 feet 11 1/2 inches to 18 feet 4 1/2 inches) (T)

[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: 6.2 cm (2.5 type) TFT drive

Total number of dots: 115 200 (480 × 240) dots

[Power, general]

Power: Rechargeable battery pack NP-BG1, 3.6 V AC-LS5K AC Adaptor (not supplied), 4.2 V

Power consumption (during shooting): 0.95 W

Operating temperature: 0 to 40˚C (32 to 104˚F)

Storage temperature: –20 to +60˚C (–4 to +140˚F)

Dimensions: 106.0 × 68.5 × 47.5 mm (4 1/4 × 2 3/4 × 1 7/8 inches) (W/H/D, excluding protrusions)

Mass: Approx. 380 g (13.4 oz) (including NP-BG1 battery pack, 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 NP-BG1

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.

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 ⚠ OR DOTTED LINE WITH MARK ⚠ 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 ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS 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.

1. SERVICE NOTE

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1-1. PRECAUTION ON REPLACING THE SY-185 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”.

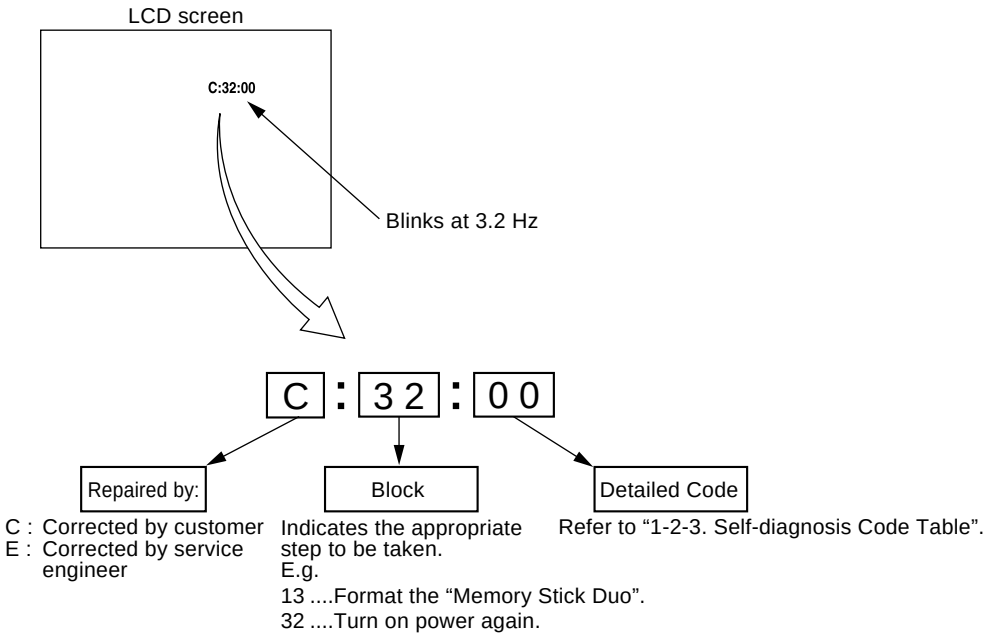
1-2. SELF-DIAGNOSIS FUNCTION

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	0	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 CN402 on the SY-185 board). If it is OK, check the focus motor drive IC (IC401 on the SY-185 board).
E	6	1	1	0	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 CN402 on the SY-185 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-185 board).
E	6	2	0	2	Abnormality of IC for steadyshot.	Check or replacement of the IC for steadyshot (IC501 on the SY-185 board).
E	6	2	1	0	Lens initializing failure.	Check or replacement of the IC for steadyshot (IC501 on the SY-185 board).
E	6	2	1	1	Lens overheating (PITCH).	Check the HALL element (PITCH) of optical image stabilizer (pin ②, ③ of CN401 on the SY-185 board). If it is OK, check PITCH/YAW angular velocity sensor (SE501 on the SY-185 board) peripheral circuits.
E	6	2	1	2	Lens overheating (YAW).	Check the HALL element (YAW) of optical image stabilizer (pin ⑥, ⑦ of CN401 on the SY-185 board). If it is OK, check PITCH/YAW angular velocity sensor (SE501 on the SY-185 board) peripheral circuits.
E	6	2	2	0	Abnormality of thermistor.	Replacement of lens block.
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 ▲/▼/◄/► on the control button, then press ●.
The message "Initialize all settings" appears.

② Select [OK] with ▲, then press ●.
The settings are reset to the default setting.

To cancel initializing

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

• Be sure not to power off the camera while initializing.

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 1: When replacing the SY-185 board, erase the data in internal memory of the board before replacement.
Note 2: When replacing the SY-185 board, execute formatting and initialize the internal memory after 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 sufficient free 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 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 select images to copy.
- 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 format the internal memory ([Format] in [Internal Memory Tool]).
- A new folder is created on the “Memory Stick Duo” and all the data will be copied to it. You cannot choose a specific folder and copy images to it.
- The DPOF (Print order) marks on the images are 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 permanently 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 ●.
Formatting starts.

To cancel formatting

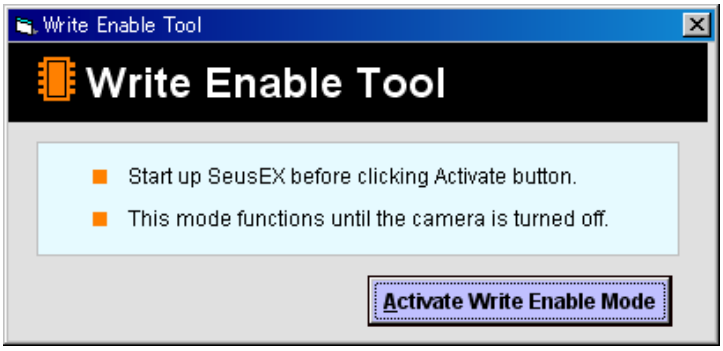
Select [Cancel] in step ②, then press ●.

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. SERVICE NOTE

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1-1. SY-185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っている場合があります。
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 Serial 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。

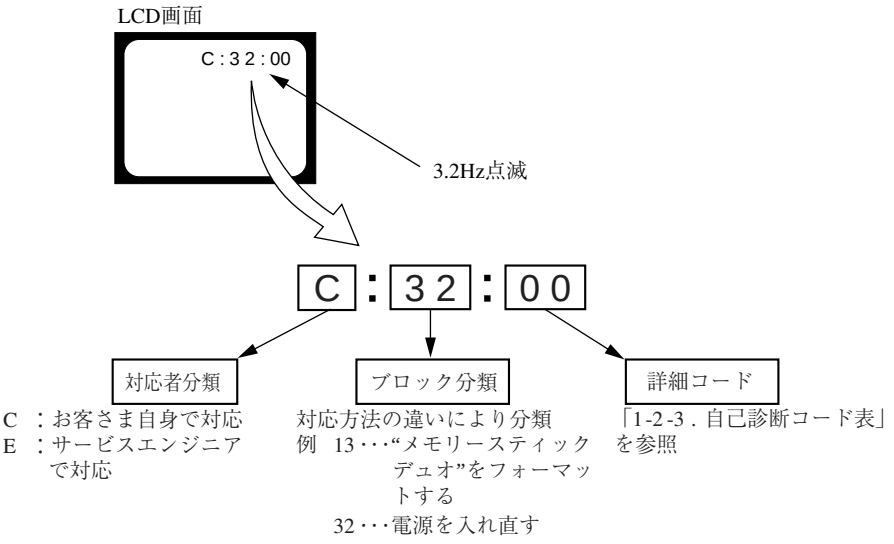
1-2. 自己診断機能

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 0	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 0	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-185基板CN402 ㉗ピン）を点検する。異常なければフォーカスモータ駆動IC（SY-185基板IC401）を点検する。
E	6 1	1 0	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-185基板CN402 ⑰ピン）を点検する。異常なければズームモータ駆動IC（SY-185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-185基板IC501）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-185基板IC501）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）（SY-185基板CN401 ②，③ピン）を点検する。異常なければPITCH/YAW角速度センサ（SY-185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）（SY-185基板CN401 ⑥，⑦ピン）を点検する。異常なければPITCH/YAW角速度センサ（SY-185基板SE501）周辺の回路を点検する。
E	6 2	2 0	サーミスタの異常。	レンズブロックを交換する。
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	規定外の充電池が使用された。	規定の充電池を使用する。

Note：交換後は，必ず「1-3. フラッシュエラー発生時の対処法」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。）

Note1：SY-185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。
Note2：SY-185基板交換の際は，基板交換後に内蔵メモリのフォーマットおよび初期化を実行して下さい。

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 充分な空き容量のある“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。

- 充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]の[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、DPOF（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、元に戻せません。

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。
② ▲で[実行]を選び、中央の●を押す。
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

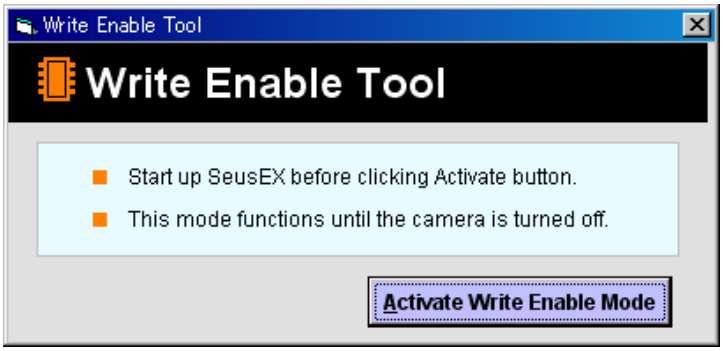
手順②で、[キャンセル]を選び、中央の●を押す。

1-5. 内蔵メモリへ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へ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，内蔵メモリへ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（WriteEnableTool.exe）を使用します。

書き戻し方法

1) カメラとPCをマスストレージ接続し，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。

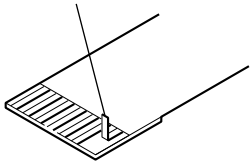
注意： カメラの電源をOFFにすることにより，書き込み許可の設定が解除されます。

2. DISASSEMBLY

NOTE FOR REPAIR

- Make sure that the flat cable and flexible board are not cracked of 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)

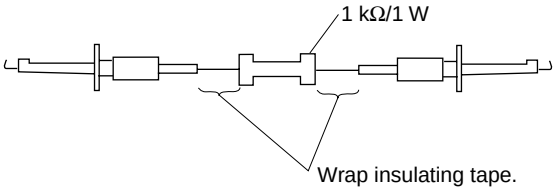


DISCHARGING OF THE ST-176 FLEXIBLE BOARD'S CHARGING CAPACITOR (C006)

The charging capacitor (C006) of the ST-176 flexible board is charged up to the maximum 300 V potential.
There is a danger of electric shock by this high voltage when the capacitor is handled by hand. The electric shock is caused by the charged voltage which is kept without discharging when the main power of the unit is simply turned off. Therefore, the remaining voltage must be discharged as described below.

Preparing the Short Jig

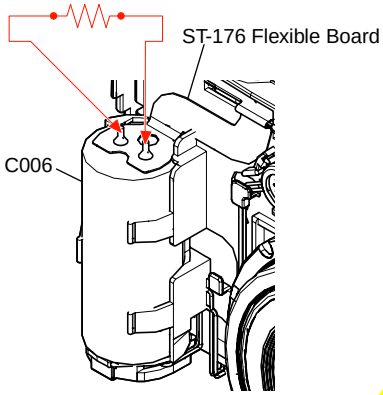
To preparing the short jig, a small clip is attached to each end of a resistor of 1 kΩ /1 W (1-215-869-11).
Wrap insulating tape fully around the leads of the resistor to prevent electrical shock.

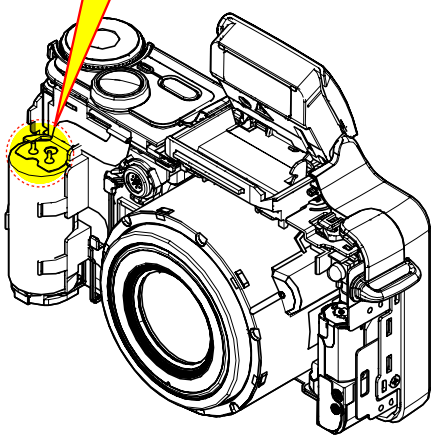


Note: High-voltage cautions

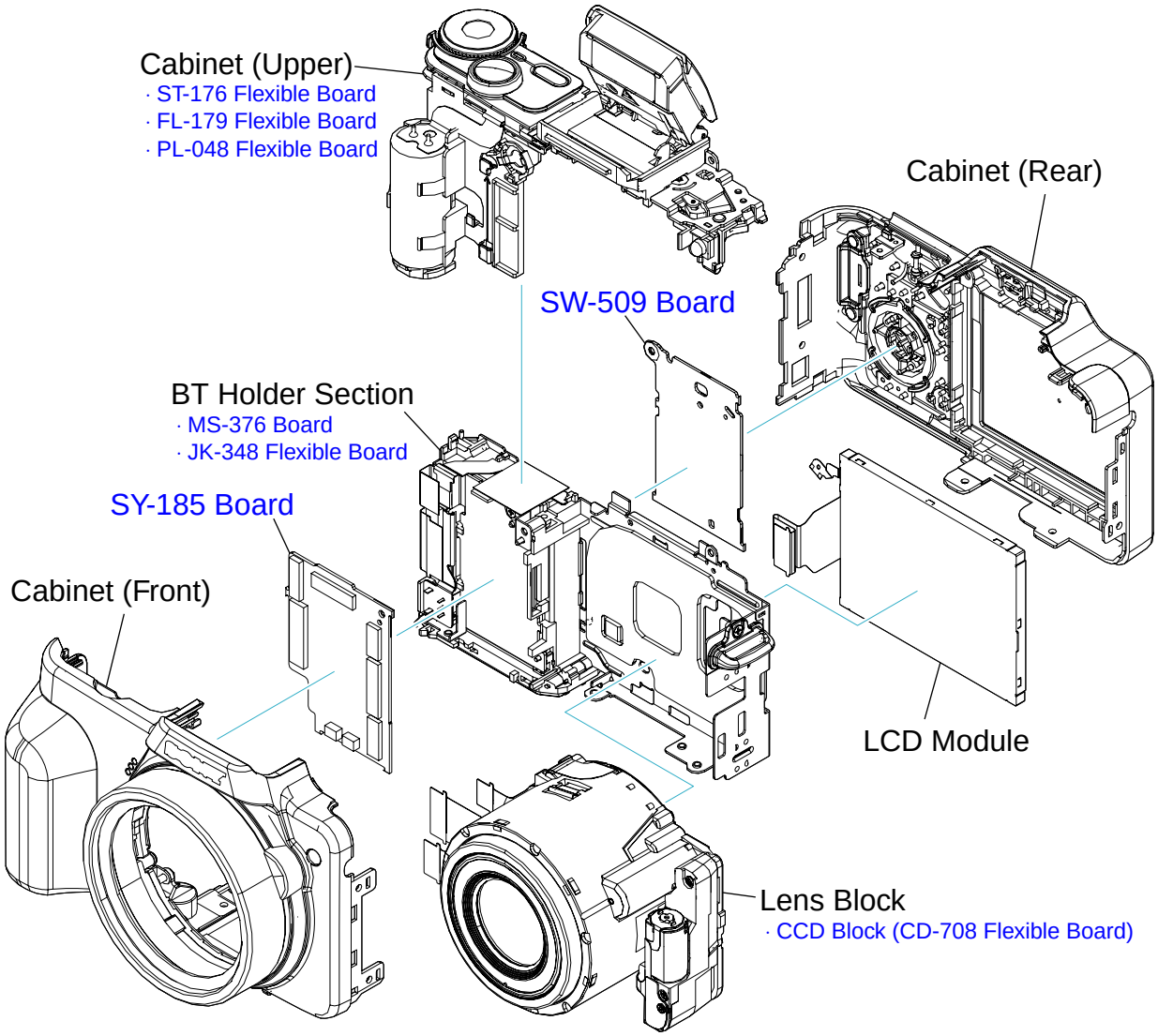
Discharging the Capacitor
Short-circuit between the two points with the short jig about 10 seconds.

R:1 kΩ/1 W
(Part code: 1-215-869-11)





2-1. IDENTIFYING PARTS



- DISASSEMBLY FLOW -

2-2-1. CABINET (FRONT) SECTION
- Side Cover (Lower)
- Cabinet (Front)

2-2-2. CABINET (REAR) SECTION
- Cabinet (Rear)
- Cabinet (Upper)

2-2-3. MAIN BOARD SECTION
- Lens Block
- SY-185 Board
- SW-509 Board
- LCD Module

2-2-4. BT HOLDER SECTION
- MS-376 Board
- JK-348 Flexible Board
- BT Holder

2-2. DISASSEMBLY

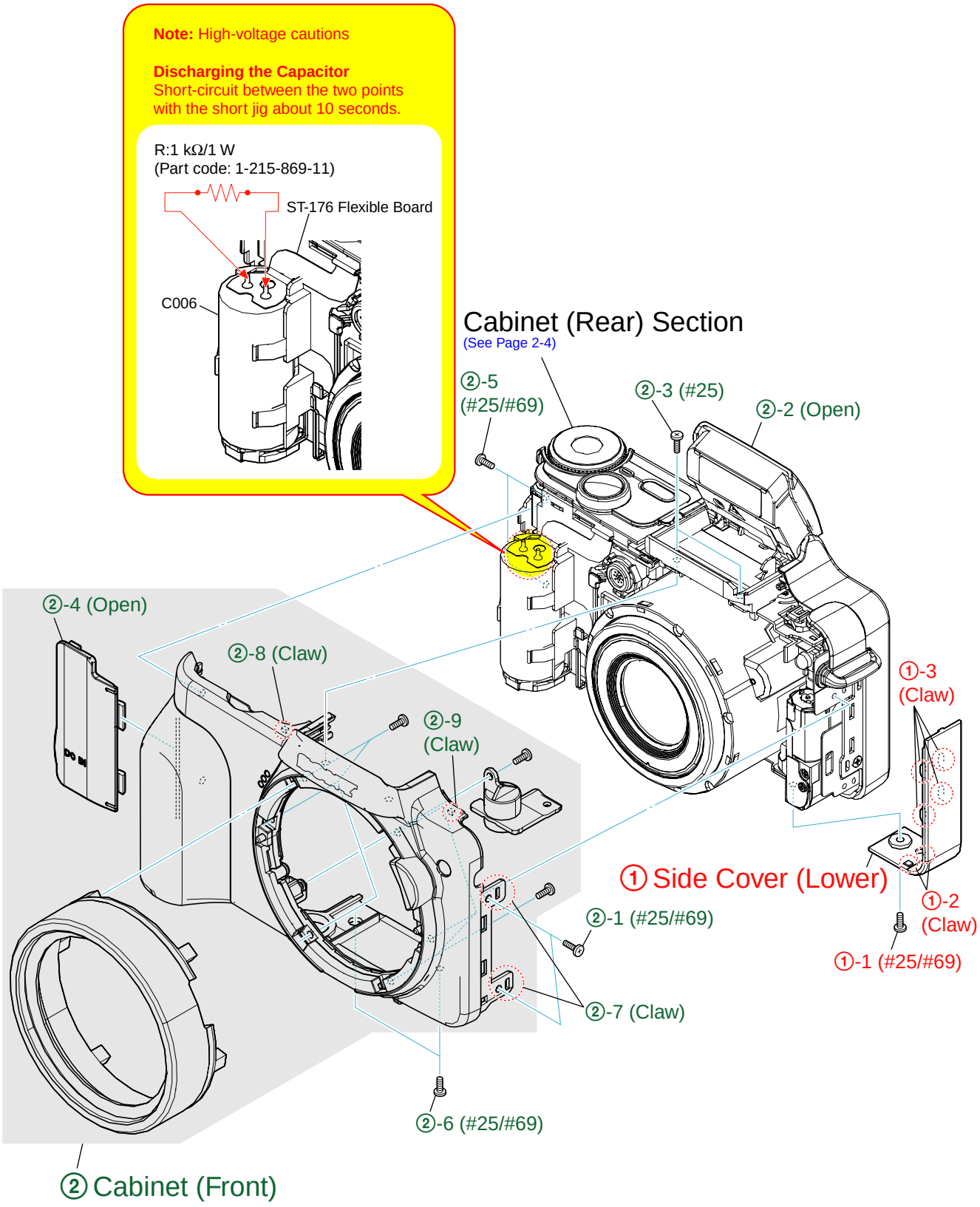
EXPLODED VIEW HARDWARE LIST

2-2-1. CABINET (FRONT) SECTION

Follow the disassembly in the numerical order given.

① Side Cover (Lower) (①-1 to ①-3)

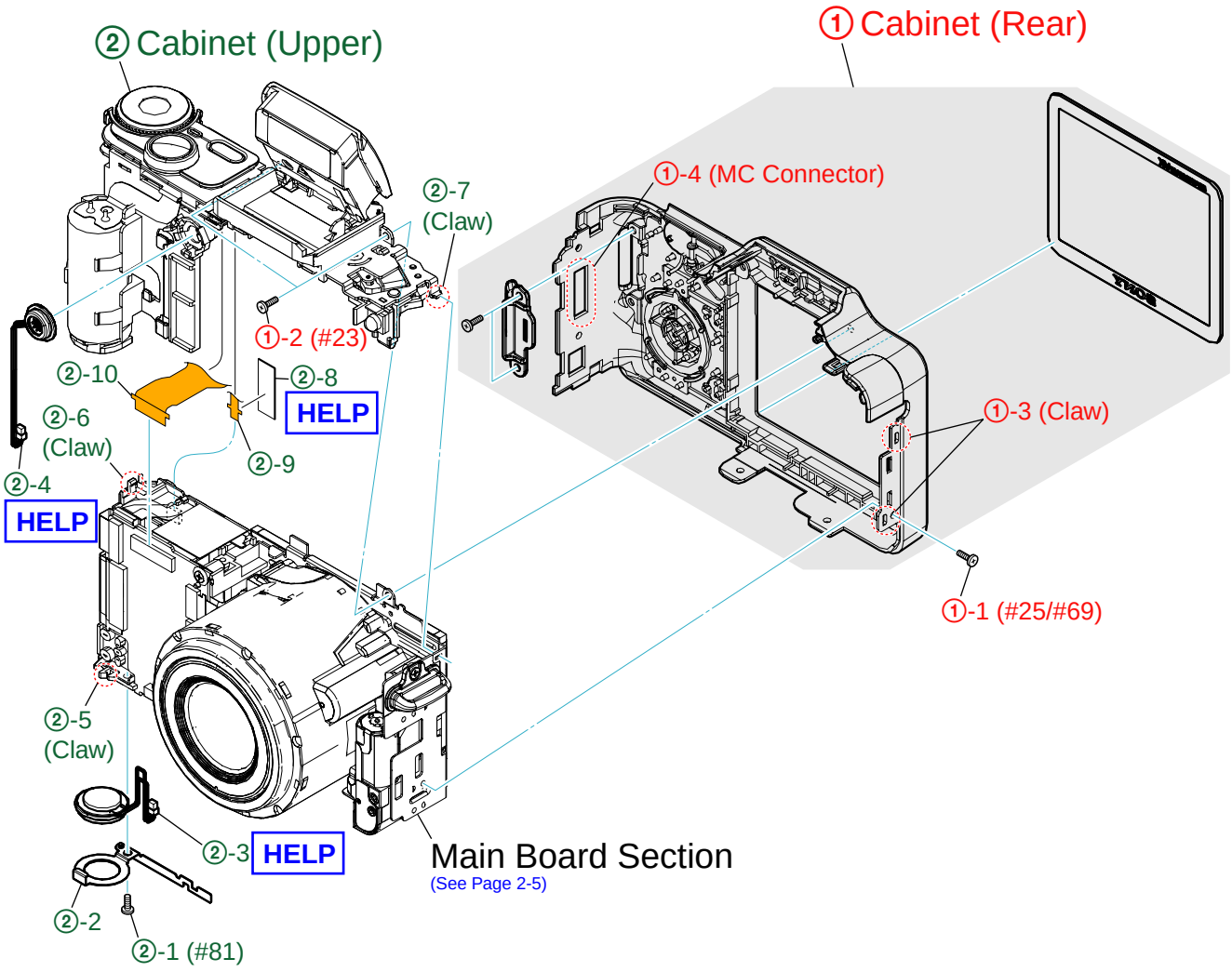
② Cabinet (Front) (②-1 to ②-9)



2-2-2. CABINET (REAR) SECTION

EXPLODED VIEW HARDWARE LIST

Follow the disassembly in the numerical order given.
① Cabinet (Rear) (①-1 to ①-4)
② Cabinet (Upper) (②-1 to ②-10)

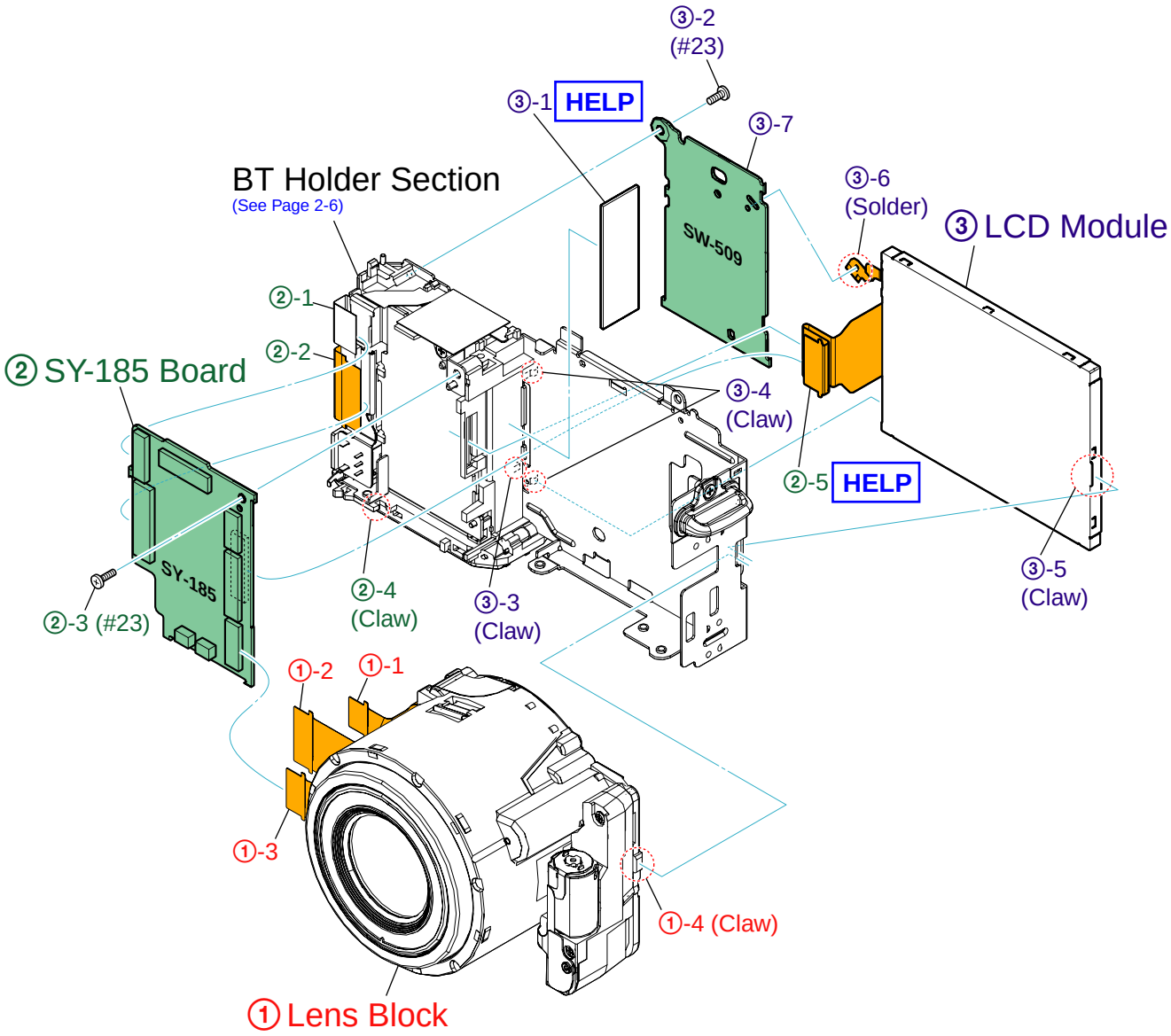


2-2-3. MAIN BOARD SECTION

EXPLODED VIEW HARDWARE LIST

Follow the disassembly in the numerical order given.

① Lens Block (①-1 to ①-4)
② SY-185 Board (②-1 to ②-5)
③ LCD Module (③-1 to ③-7)

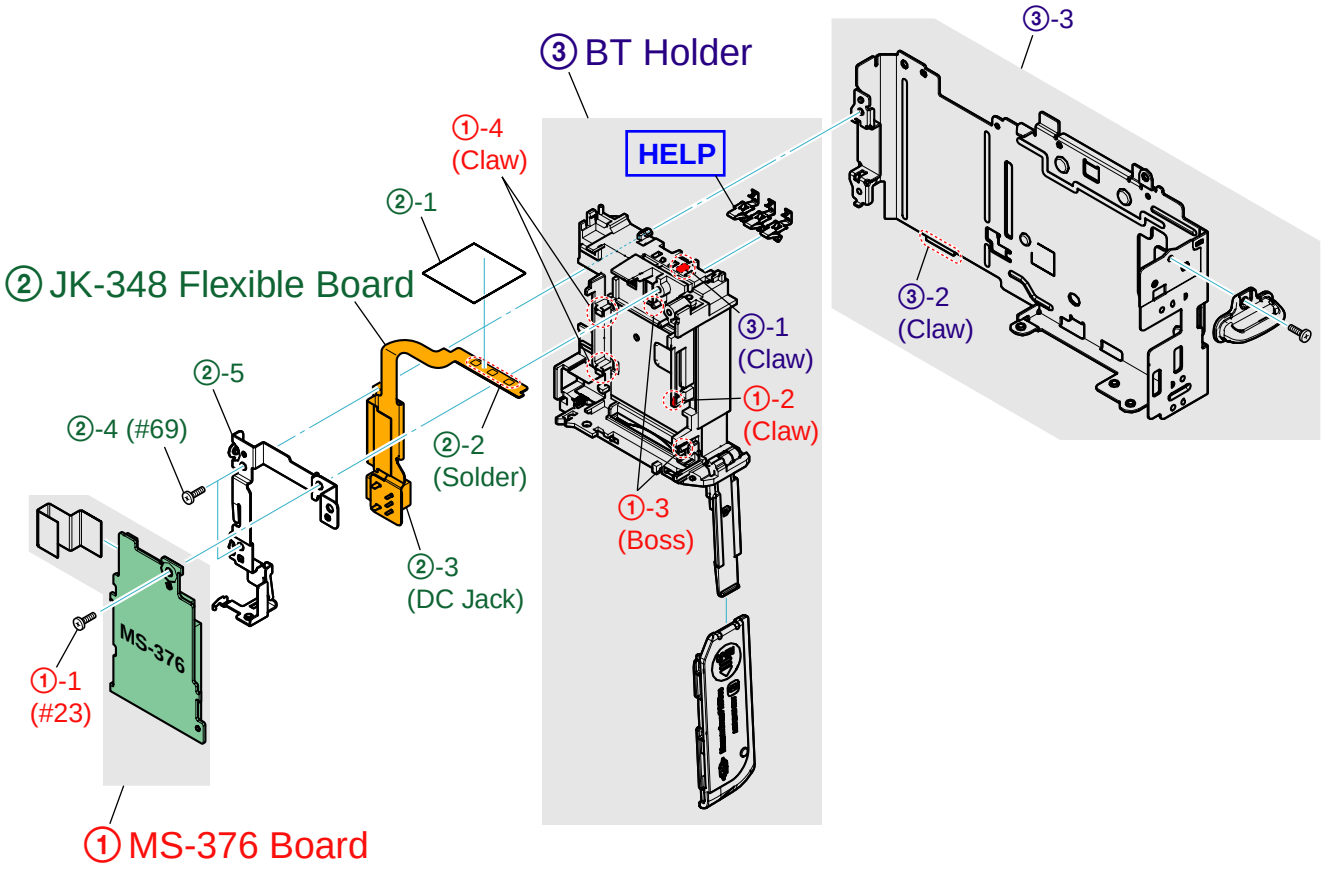


2-2-4. BT HOLDER SECTION

EXPLODED VIEW HARDWARE LIST

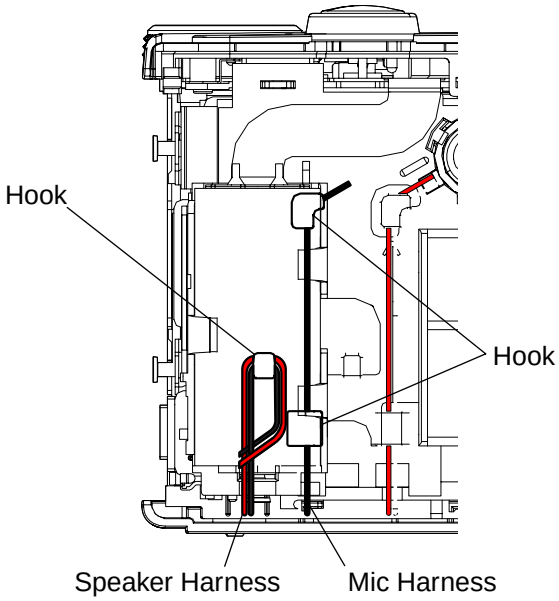
Follow the disassembly in the numerical order given.

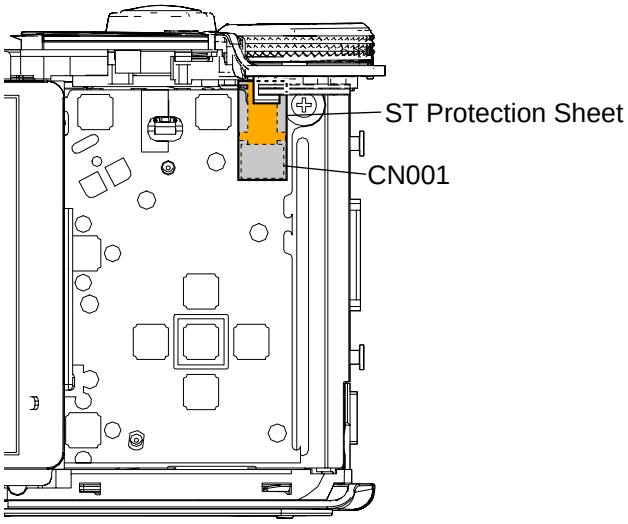
① MS-376 Board (①-1 to ①-4)
② JK-348 Flexible Board (②-1 to ②-5)
③ BT Holder (③-1 to ③-3)

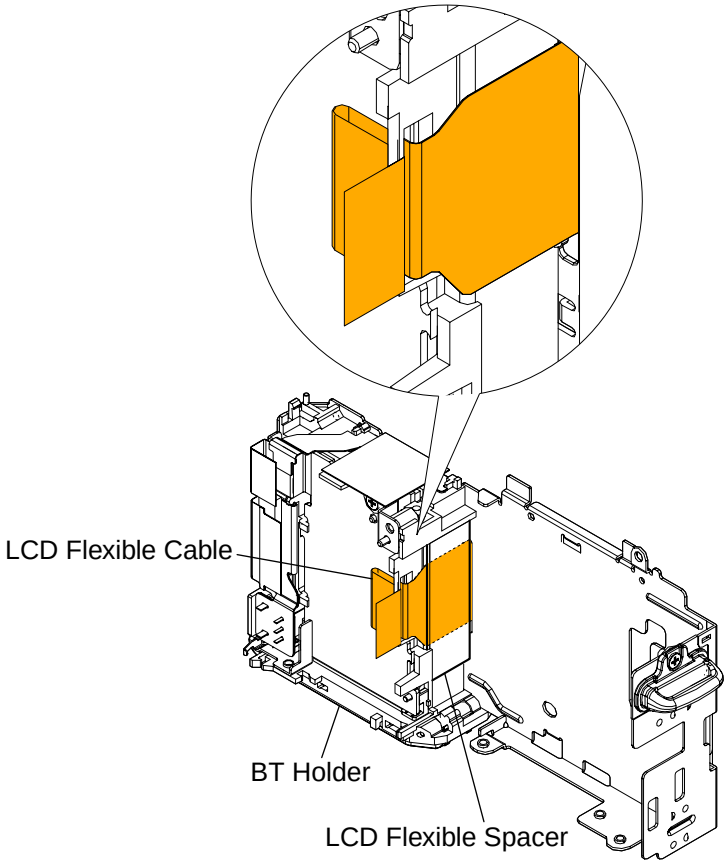


HELP

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

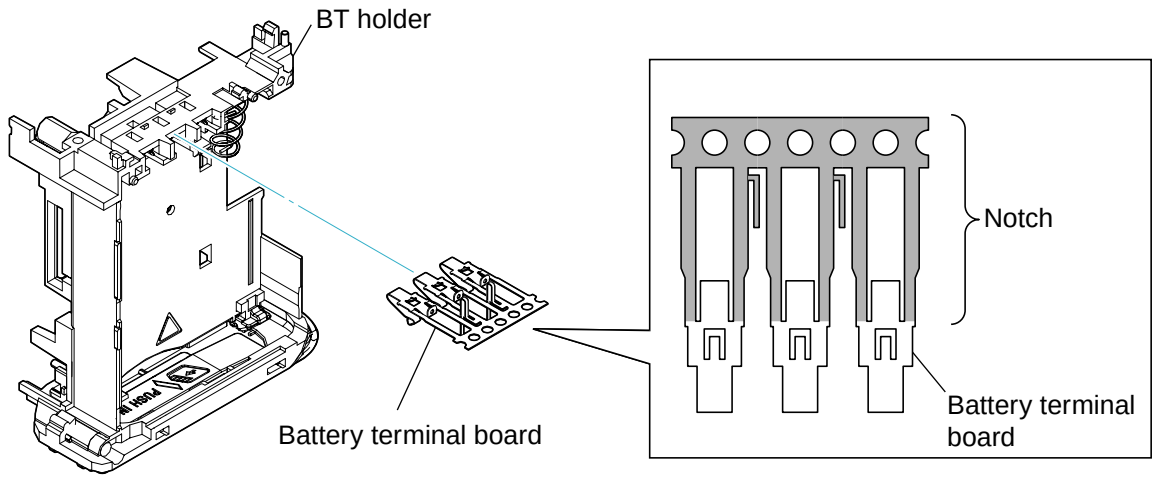




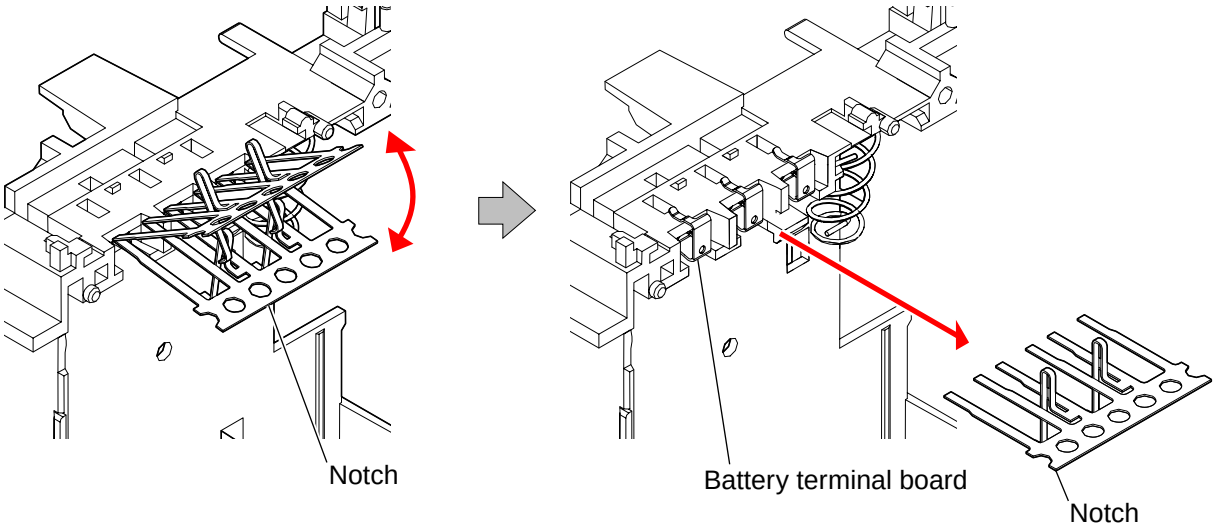


INSTALLATION METHOD OF BATTERY TERMINAL BOARD

① Insert the battery terminal board into a slit in the BT holder to install.
* The battery terminal board is attached with the notch for installation.



② Fold the notch 3 or 4 times repeatedly to break.



3. BLOCK DIAGRAMS

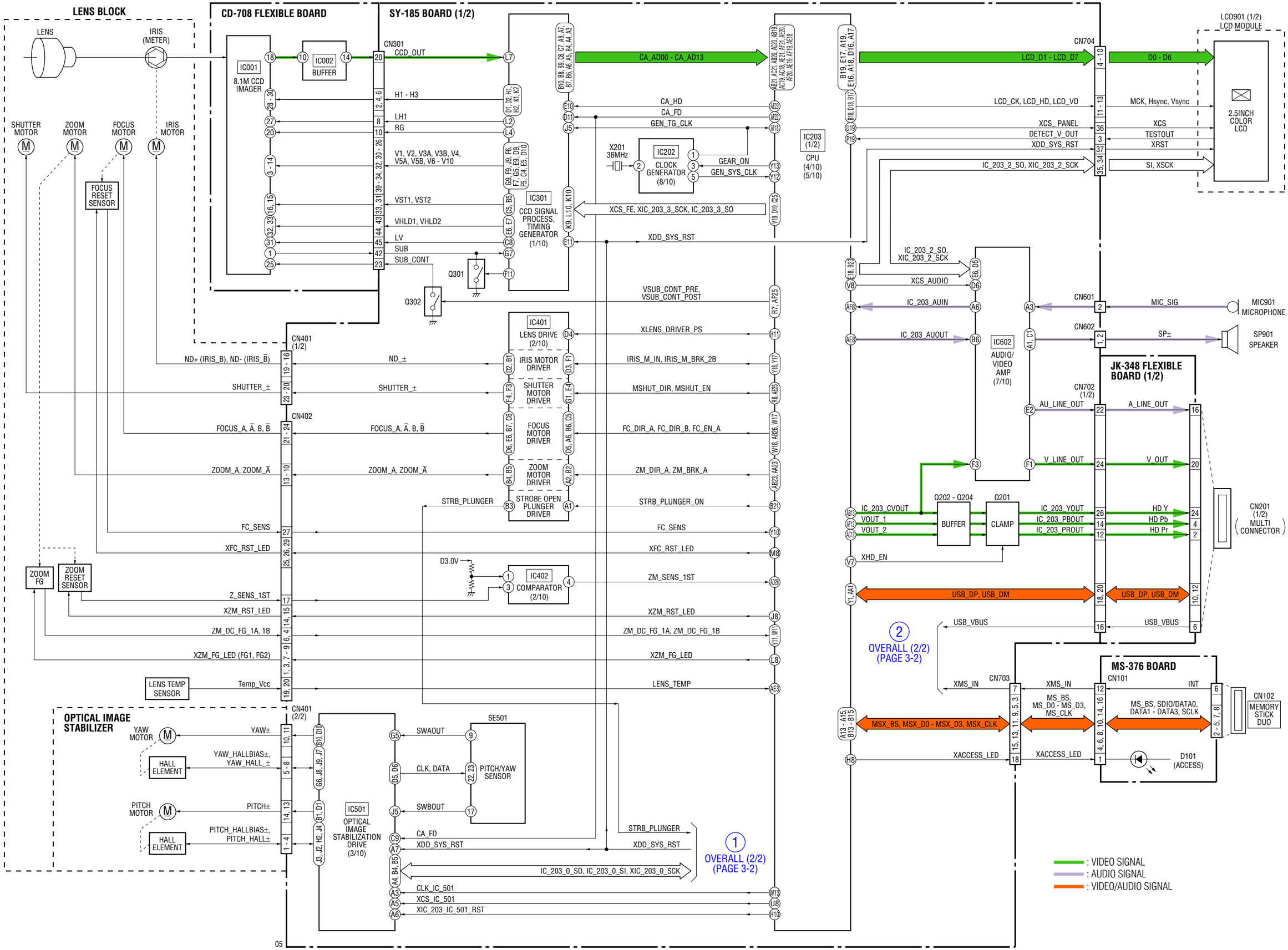
Link

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

3. BLOCK DIAGRAMS

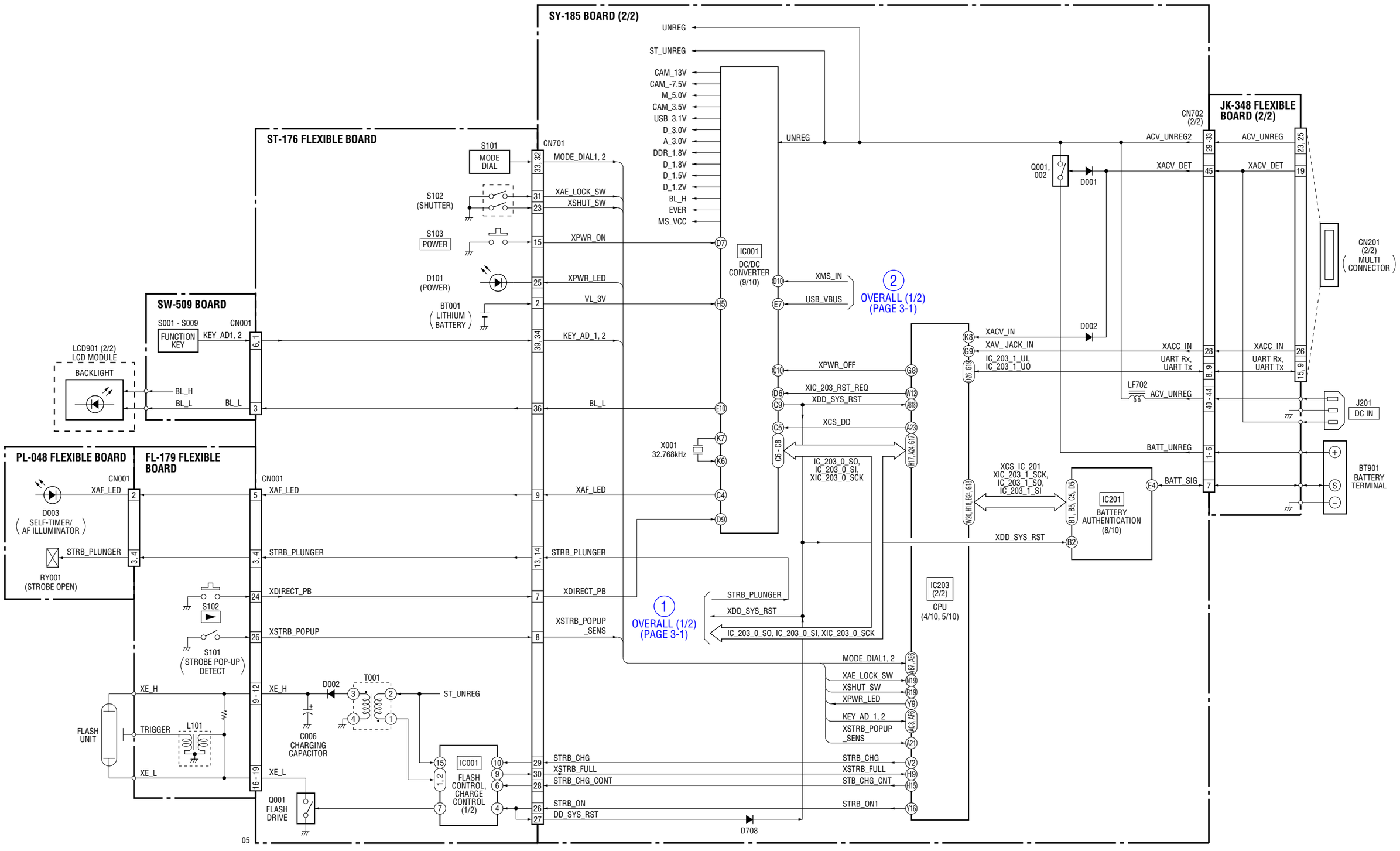
3-1. OVERALL BLOCK DIAGRAM (1/2)

( ) : Number in parenthesis ( ) indicates the division number of schematic diagram where the component is located.



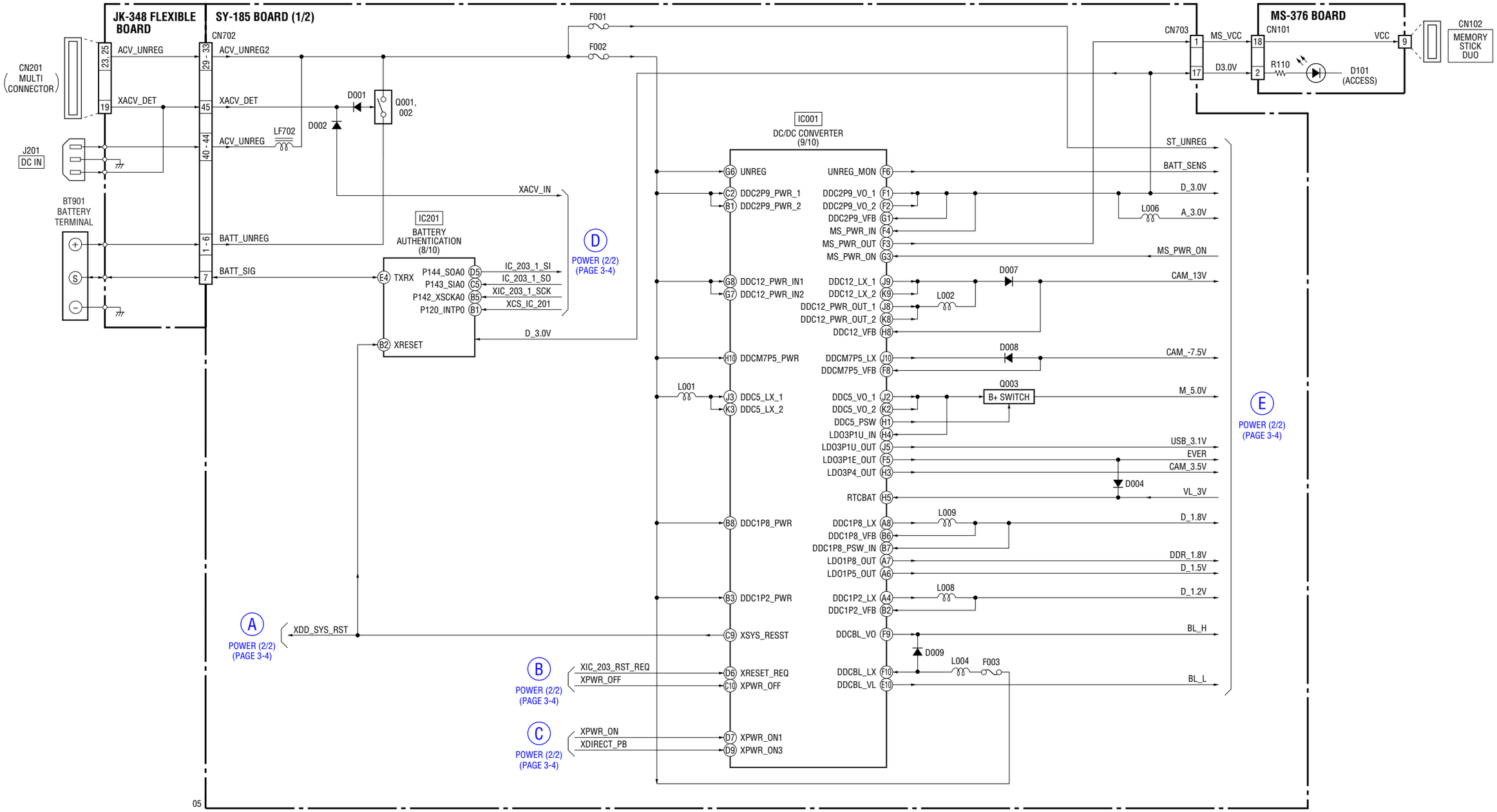
3-2. OVERALL BLOCK DIAGRAM (2/2)

( ) : Number in parenthesis ( ) indicates the division number of schematic diagram where the component is located.



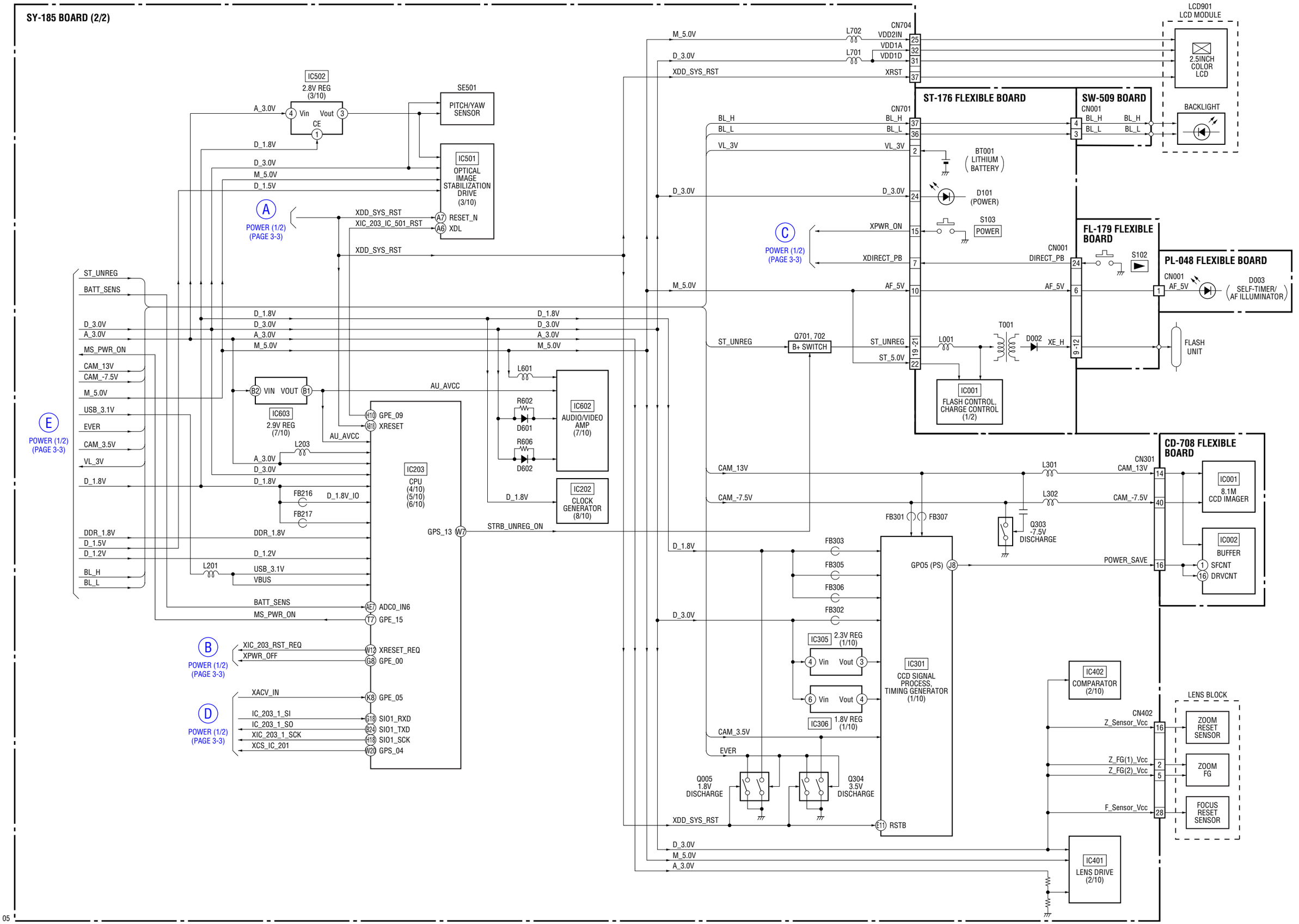
3-3. POWER BLOCK DIAGRAM (1/2)

( ) : Number in parenthesis ( ) indicates the division number of schematic diagram where the component is located.

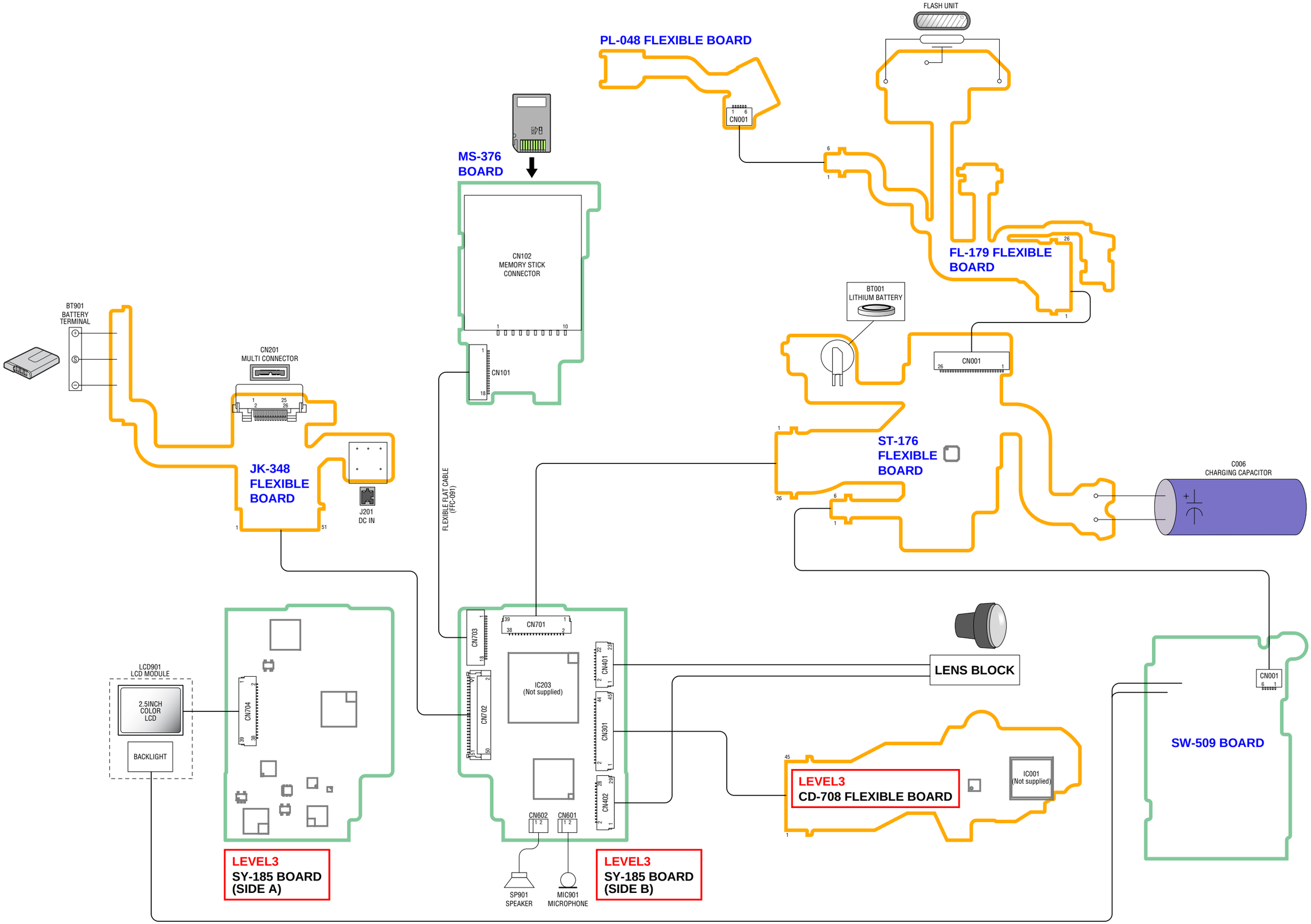


3-4. POWER BLOCK DIAGRAM (2/2)

( ) : Number in parenthesis ( ) indicates the division number of schematic diagram where the component is located.



4-1. FRAME SCHEMATIC DIAGRAM



4-2. SCHEMATIC DIAGRAMS

Link

- JK-348 FLEXIBLE BOARD (BATTERY IN)
- MS-376 BOARD (MEMORY STICK CONNECTOR)
- PL-048 FLEXIBLE BOARD (AF LED, STROBE PLUNGER)
- FL-179 FLEXIBLE BOARD (FLASH UNIT)
- ST-176 FLEXIBLE BOARD (1/2) (FLASH DRIVE)
- ST-176 FLEXIBLE BOARD (2/2) (CONTROL SWITCH)
- SW-509 BOARD (CONTROL SWITCH)

- COMMON NOTE FOR SCHEMATIC DIAGRAMS

4-2. SCHEMATIC DIAGRAMS

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

(For schematic diagrams)

- All capacitors are in μF unless otherwise noted. pF : μμF. 50 V or less are not indicated except for electrolytics and tantalums.
- Chip resistors are 1/10 W unless otherwise noted. kΩ=1000 Ω, MΩ=1000 kΩ.
- 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 22U TA A — Kinds of capacitor / Case size
  L452 10UH 2520 — 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 → $\overline{\text{EDIT}}$ PB/XREC → PB/$\overline{\text{REC}}$
- : non flammable resistor
- : fusible resistor
- : panel designation
- : B+ Line
- : B– Line
- : IN/OUT direction of (+,–) B LINE.
- : adjustment for repair.

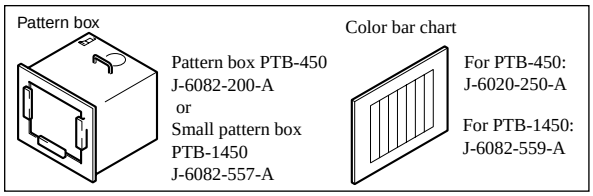
(Measuring conditions voltage and waveform)

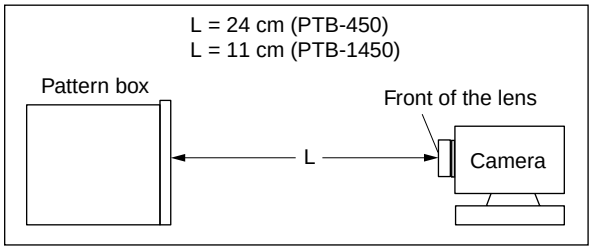
- Voltages and waveforms are measured between the measurement points and ground when camera shoots color bar chart of pattern box. They are reference values and reference waveforms.
  (VOM of DC 10 MΩ input impedance is used)
- Voltage values change depending upon input impedance of VOM used.)

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





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

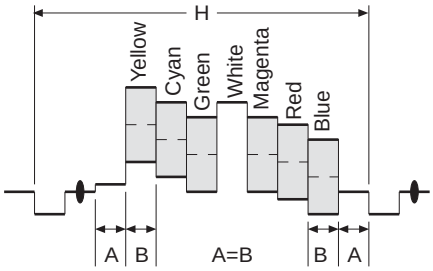


Fig. a (Video output terminal output waveform)

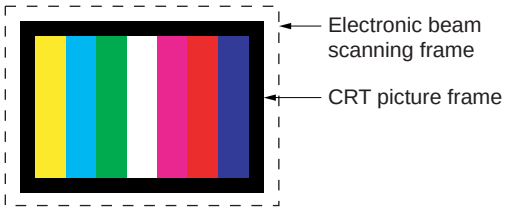


Fig.b (Picture on monitor TV)

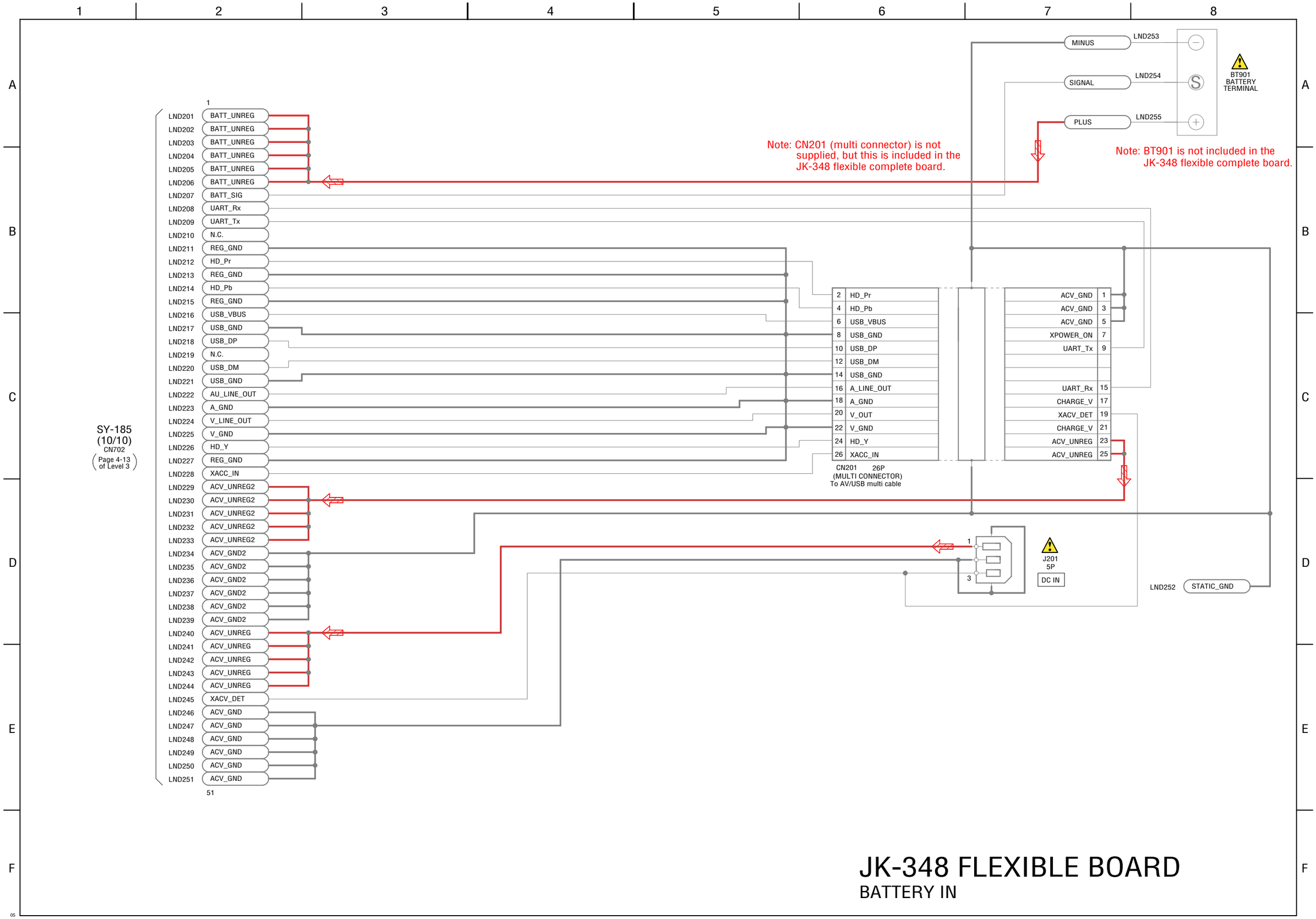
When indicating parts by reference number, please include the board name.

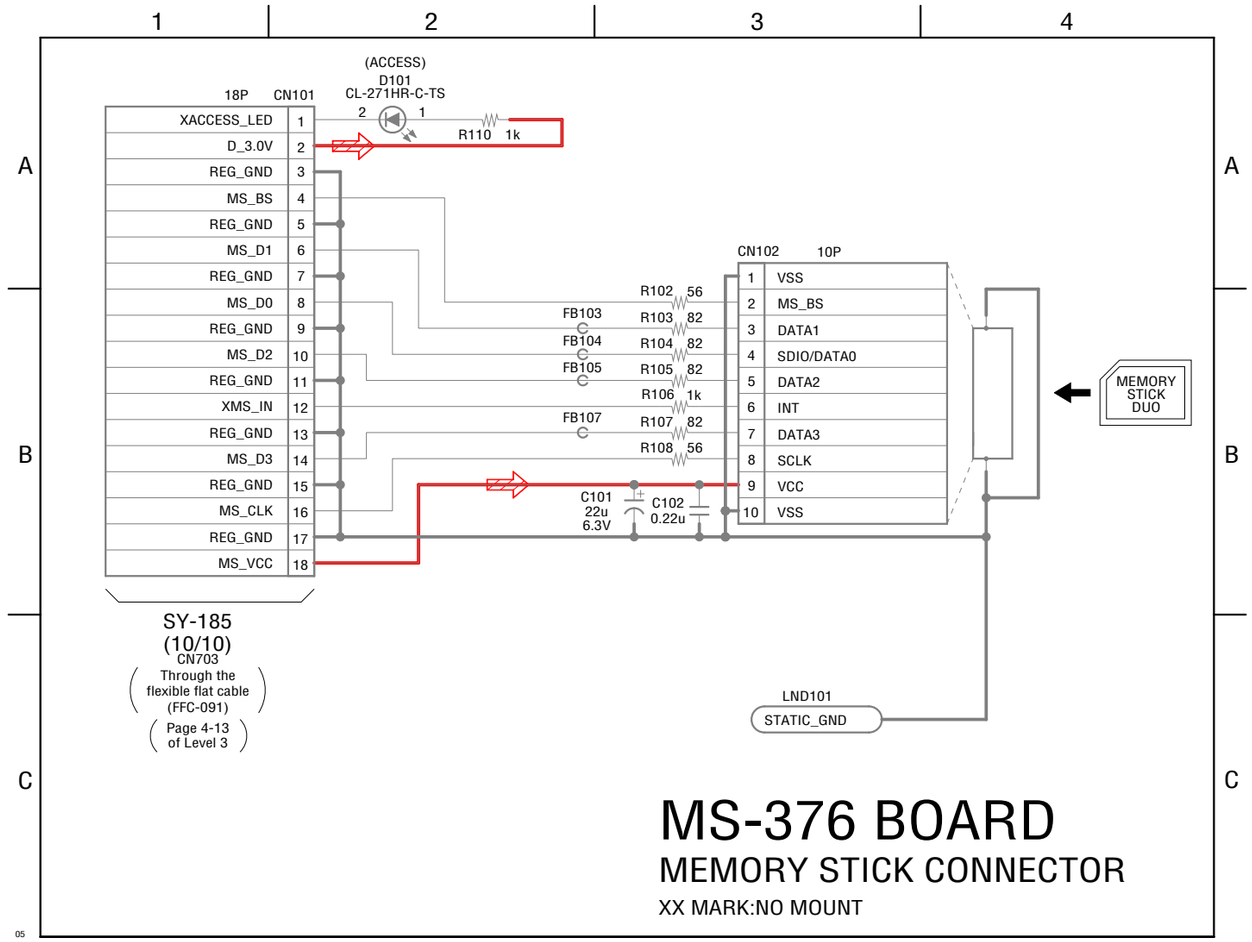
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

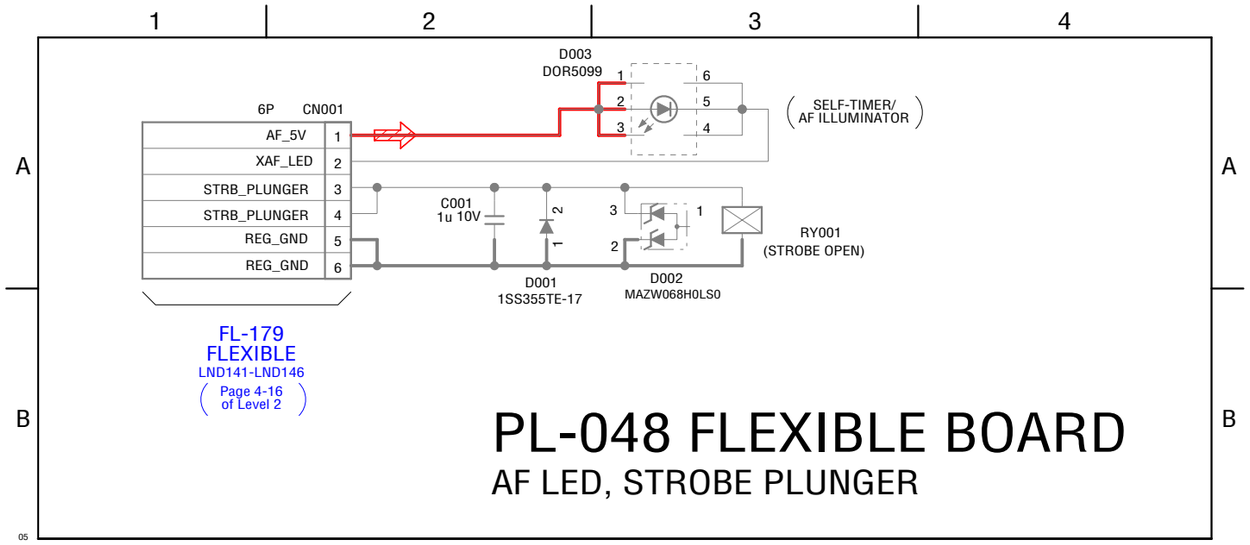
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifie.

Schematic diagrams of the CD-708 flexible board and SY-185 board are not shown.
Pages from 4-3 to 4-13 are not shown.

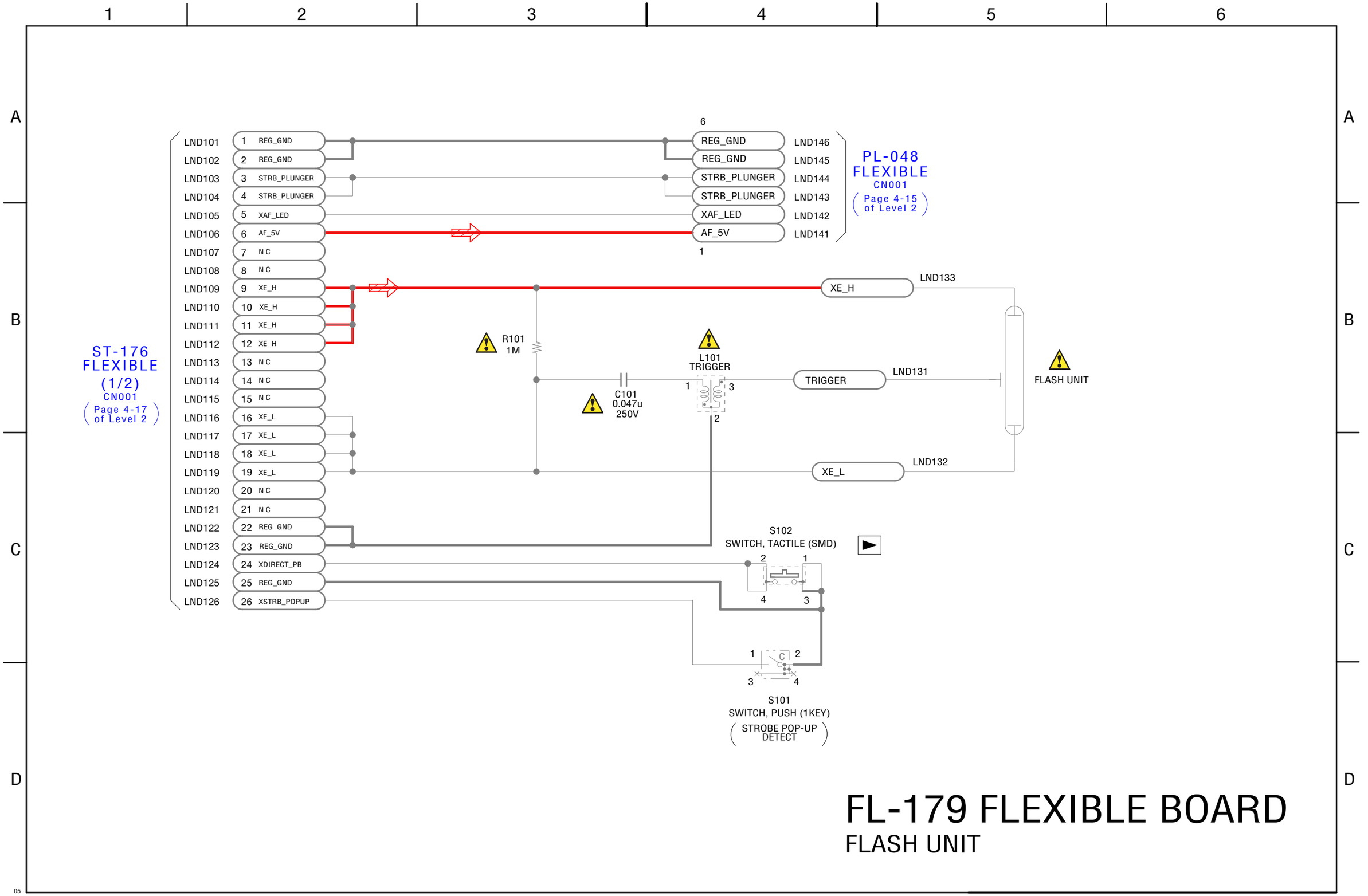
• Refer to page 4-2 for mark ⚠.



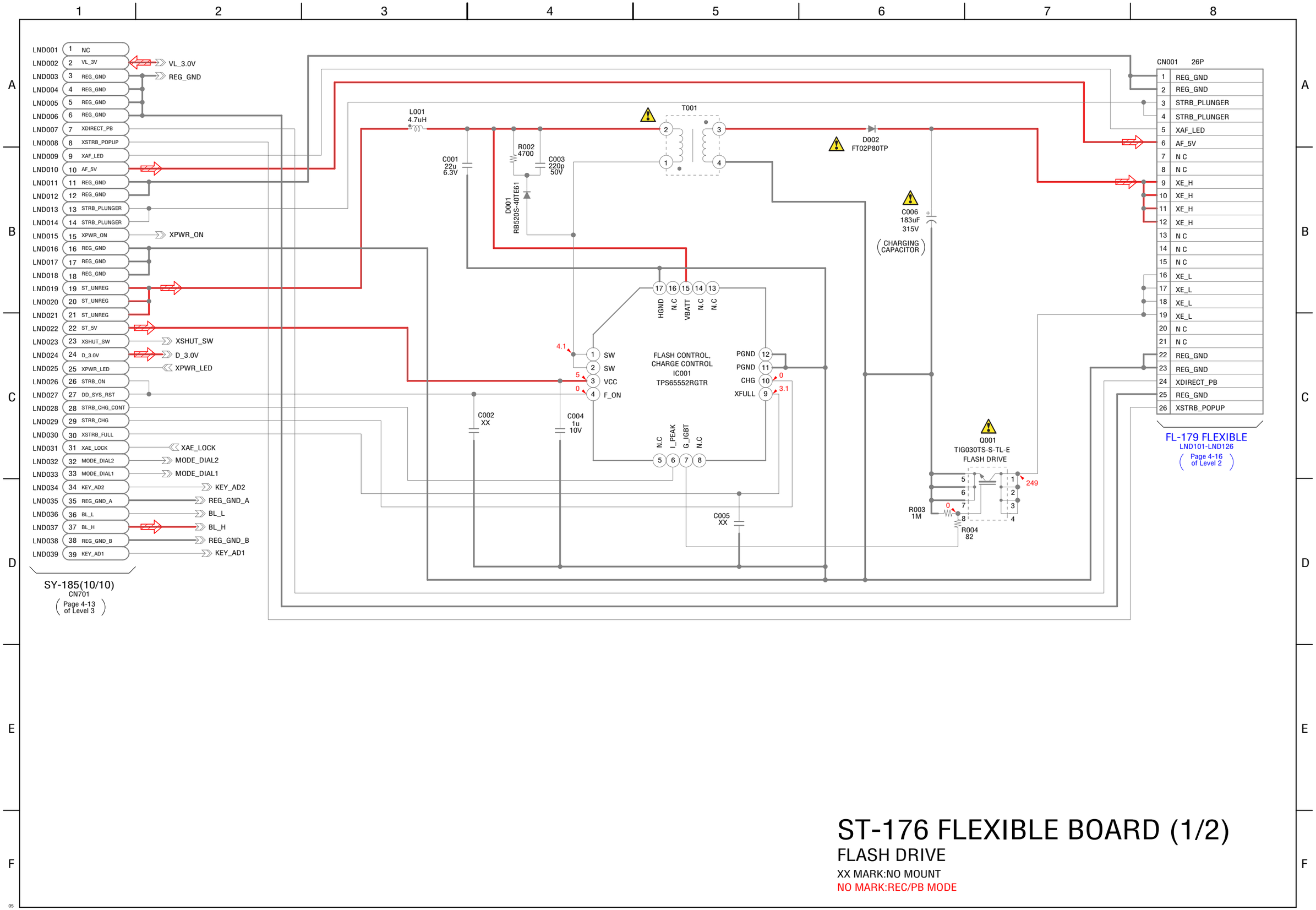

1
2
3
4
A
B
C
05
(ACCESS)
D101
CL-271HR-C-TS
18P CN101
XACCESS_LED 1
D_3.0V 2
REG_GND 3
MS_BS 4
REG_GND 5
MS_D1 6
REG_GND 7
MS_D0 8
REG_GND 9
MS_D2 10
REG_GND 11
XMS_IN 12
REG_GND 13
MS_D3 14
REG_GND 15
MS_CLK 16
REG_GND 17
MS_VCC 18
R110 1k
R102 56
R103 82
R104 82
R105 82
R106 1k
R107 82
R108 56
FB103
FB104
FB105
FB107
C101 22u 6.3V
C102 0.22u
CN102 10P
1 VSS
2 MS_BS
3 DATA1
4 SDIO/DATA0
5 DATA2
6 INT
7 DATA3
8 SCLK
9 VCC
10 VSS
MEMORY STICK DUO
LND101
STATIC_GND
SY-185 (10/10)
CN703
Through the flexible flat cable (FFC-091)
Page 4-13 of Level 3
MS-376 BOARD
MEMORY STICK CONNECTOR
XX MARK:NO MOUNT


1
2
3
4
A
B
05
D003
DOR5099
6P CN001
AF_5V 1
XAF_LED 2
STRB_PLUNGER 3
STRB_PLUNGER 4
REG_GND 5
REG_GND 6
SELF-TIMER/ AF ILLUMINATOR
C001 1u 10V
D001 1SS355TE-17
D002 MAZW068H0LS0
RY001 (STROBE OPEN)
FL-179
FLEXIBLE
LND141-LND146
Page 4-16 of Level 2
PL-048 FLEXIBLE BOARD
AF LED, STROBE PLUNGER

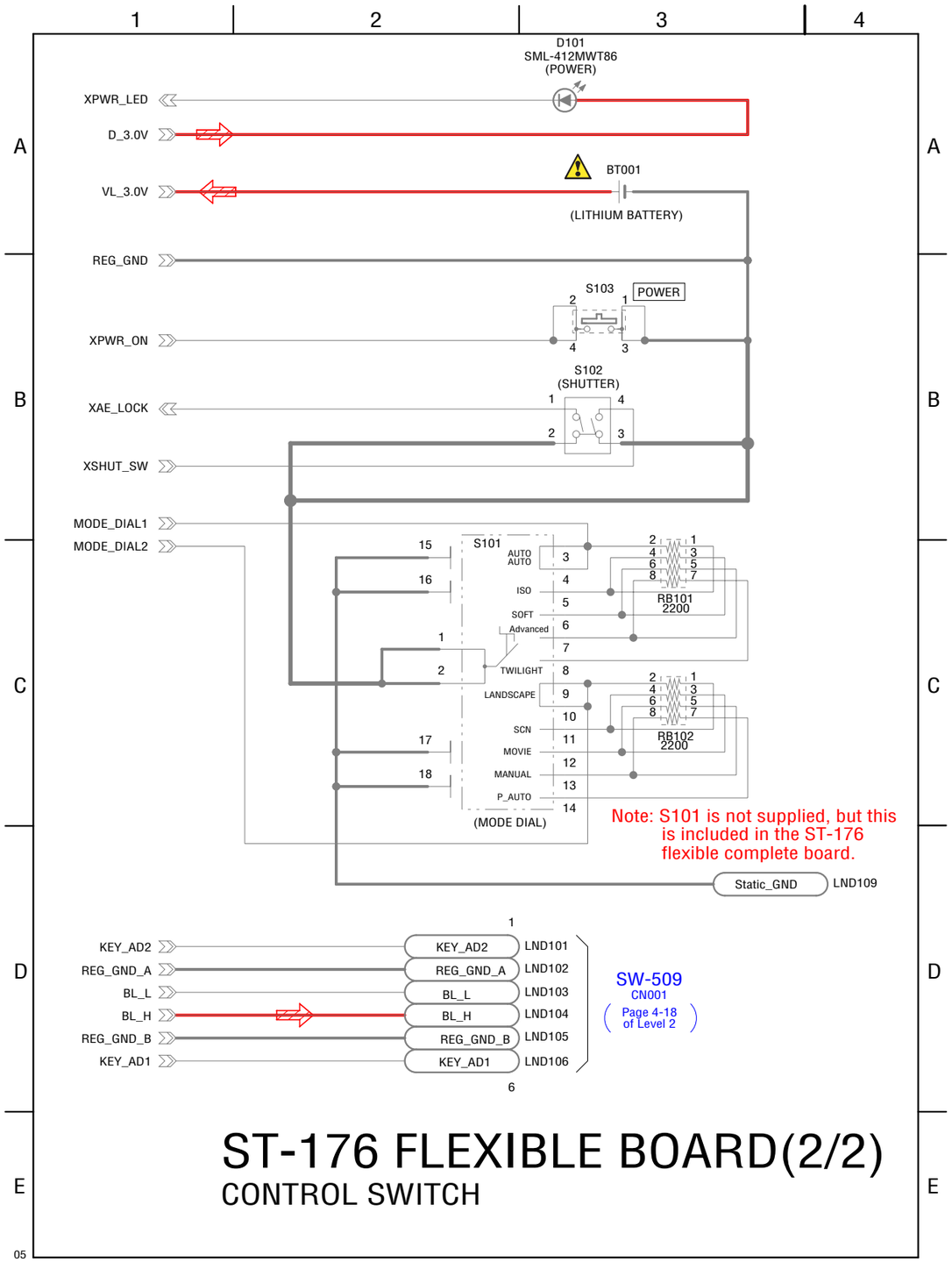
• Refer to page 4-2 for mark ⚠.

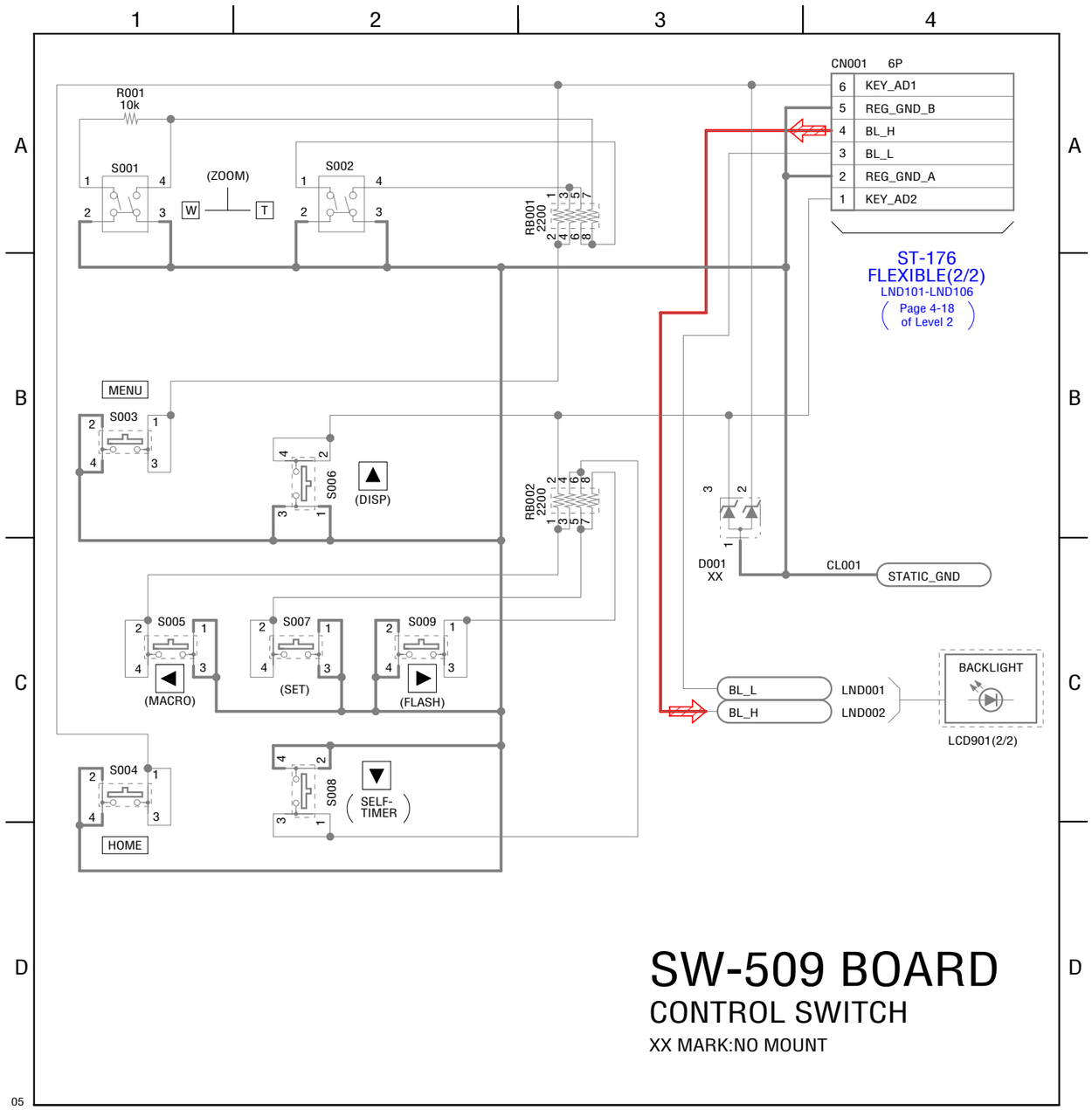


• Refer to page 4-2 for mark ⚠.



• Refer to page 4-2 for mark ⚠.





4-3. PRINTED WIRING BOARDS

Link

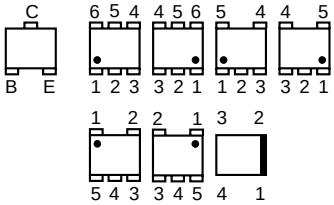
4-3. PRINTED WIRING BOARDS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS

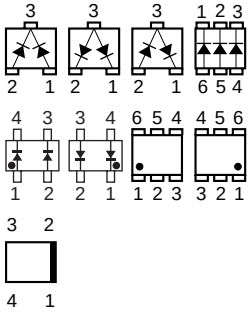
- : Uses unleaded solder.
- : Circuit board
  : Flexible board
  Pattern from the side which enables seeing.
  : pattern of the rear side
  (The other layers' patterns are not indicated)
- Through hole is omitted.
- There are a few cases that the part printed on diagram isn't mounted in this model.
-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

- Chip parts.

Transistor



Diode

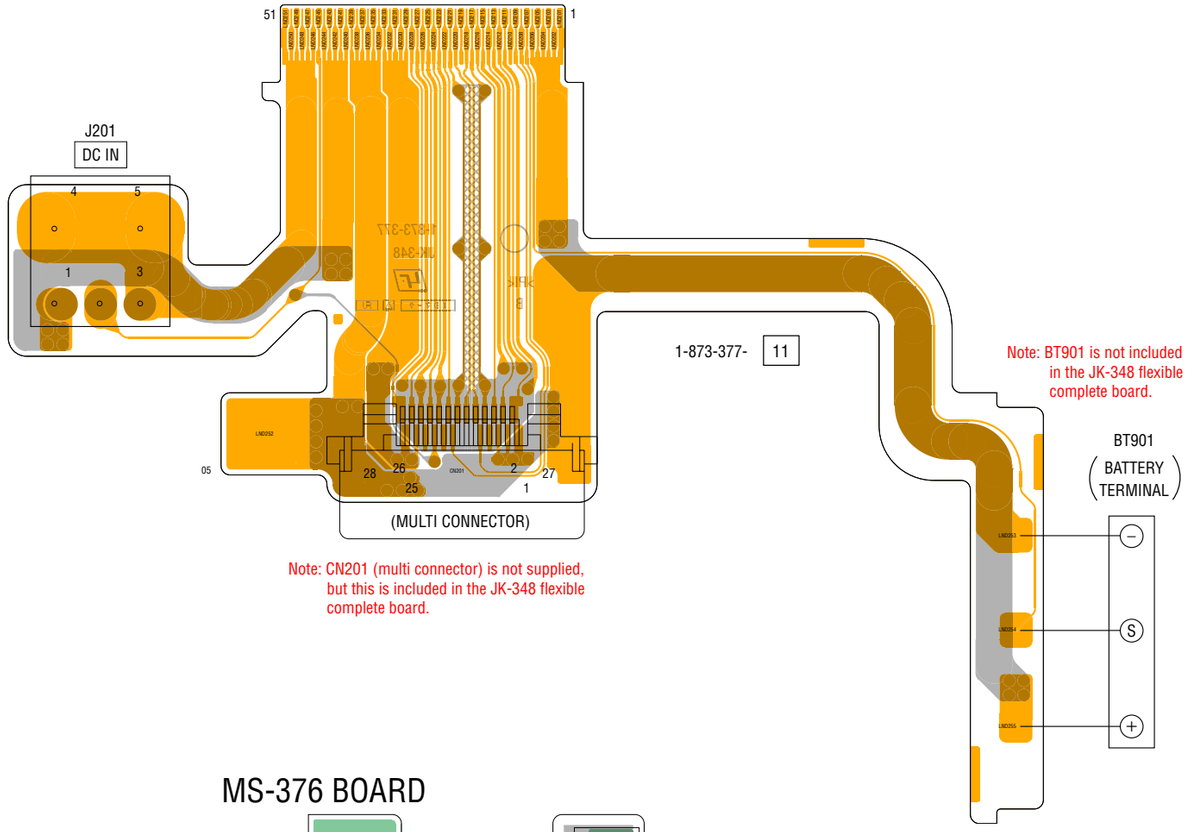


Printed wiring boards of the CD-708 flexible board and SY-185 board are not shown.
Pages from 4-20 to 4-21 are not shown.

JK-348 (2 layers), MS-376 (2 layers), PL-048 (1 layer), FL-179 (2 layers)

: Uses unleaded solder.

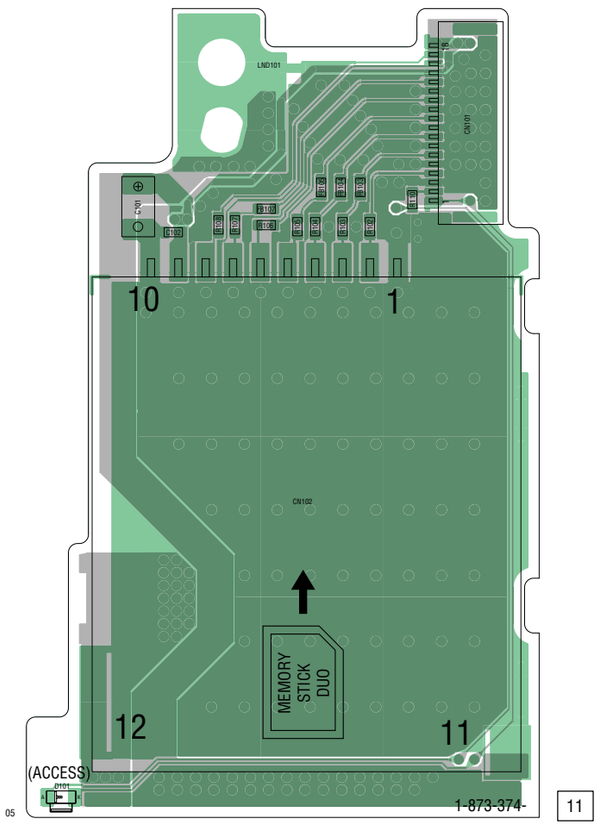
JK-348 FLEXIBLE BOARD



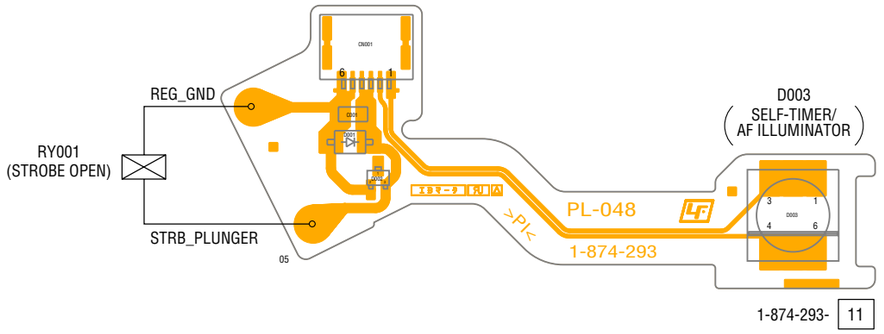
Note: CN201 (multi connector) is not supplied, but this is included in the JK-348 flexible complete board.

Note: BT901 is not included in the JK-348 flexible complete board.

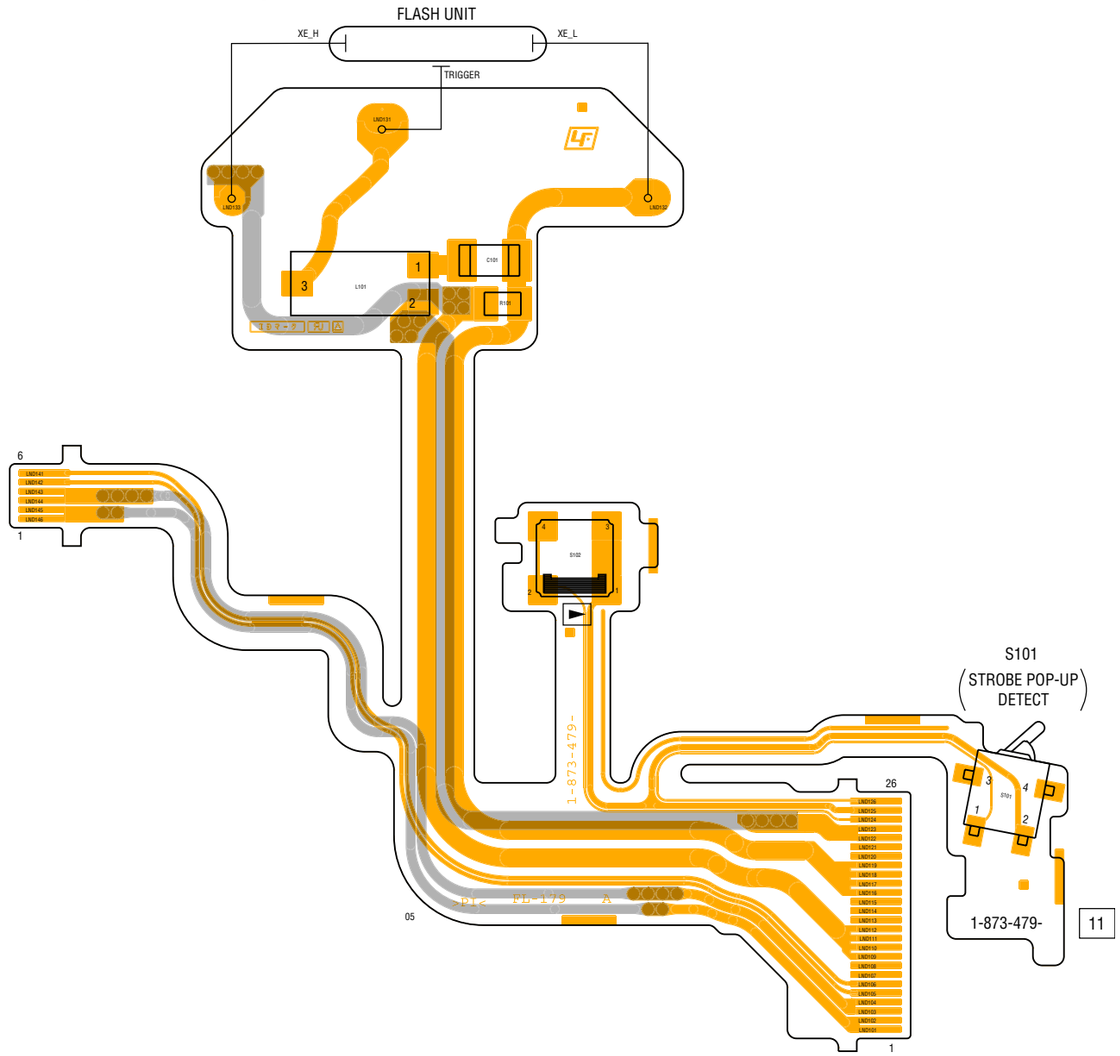
MS-376 BOARD



PL-048 FLEXIBLE BOARD



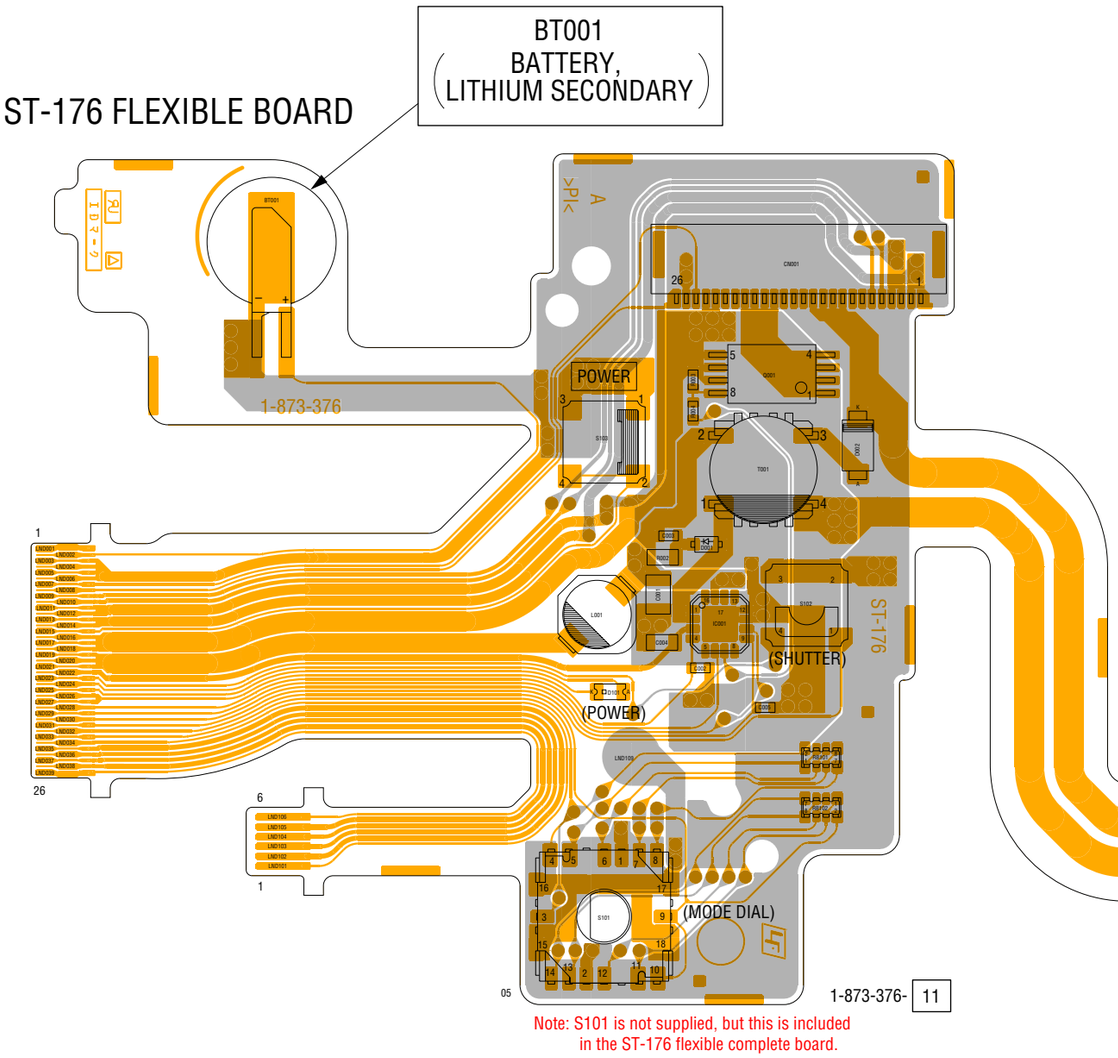
FL-179 FLEXIBLE BOARD



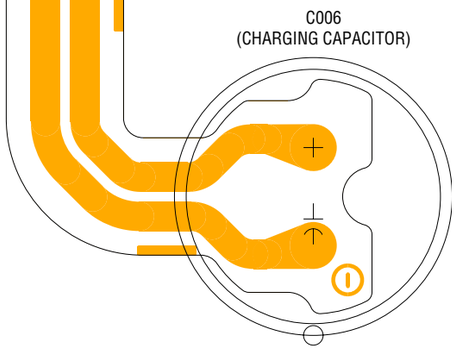
ST-176 (2 layers), SW-509 (2 layers)

: Uses unleaded solder.

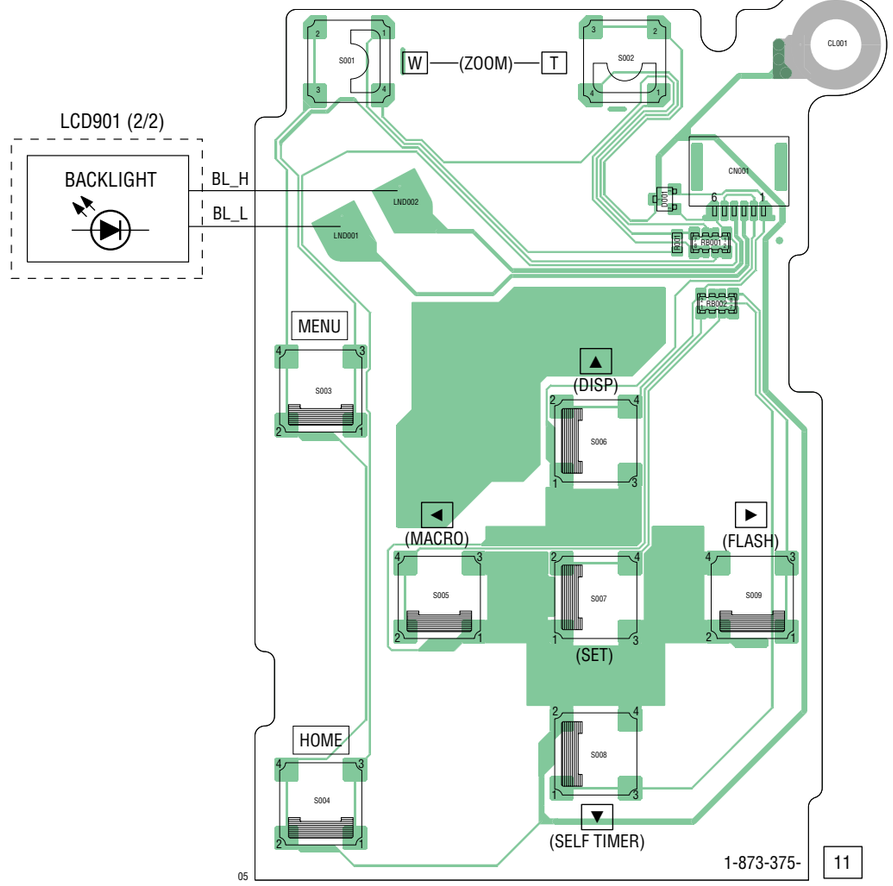
ST-176 FLEXIBLE BOARD



Note: S101 is not supplied, but this is included in the ST-176 flexible complete board.



SW-509 BOARD



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

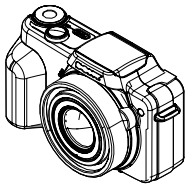
NOTE

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.

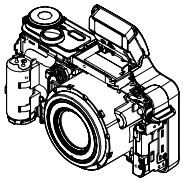
Link

EXPLODED VIEWS



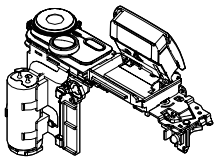
A

CABINET (FRONT) SECTION



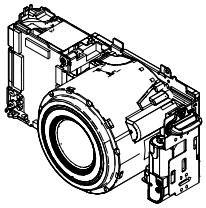
B

CABINET (REAR) SECTION



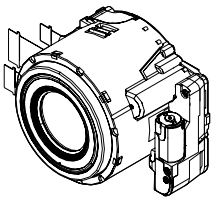
C

CABINET (UPPER) SECTION



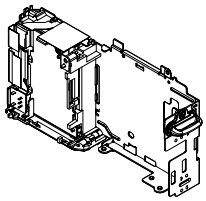
D

MAIN BOARD SECTION



E

LENS SECTION



F

BT HOLDER SECTION

Link

ELECTRICAL PARTS LIST

ACCESSORIES

FL-179 FLEXIBLE BOARD C	MS-376 BOARD F	ST-176 FLEXIBLE BOARD C
JK-348 FLEXIBLE BOARD F	PL-048 FLEXIBLE BOARD C	SW-509 BOARD D

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: µF
- COILS
  uH: µH
- 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...: µA... , uPA... , µPA... ,
  uPB... , µPB... , µPC... , µPC... ,
  uPD..., µPD...
- Abbreviation
  AR : Argentine model
  AUS : Australian model
  BR : Brazilian model
  CH : Chinese model
  CND : Canadian model
  EE : East European model
  HK : Hong Kong model
  J : Japanese model
  JE : Tourist model
  KR : Korea model
  NE : North European model
  TW : Taiwan model

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

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.

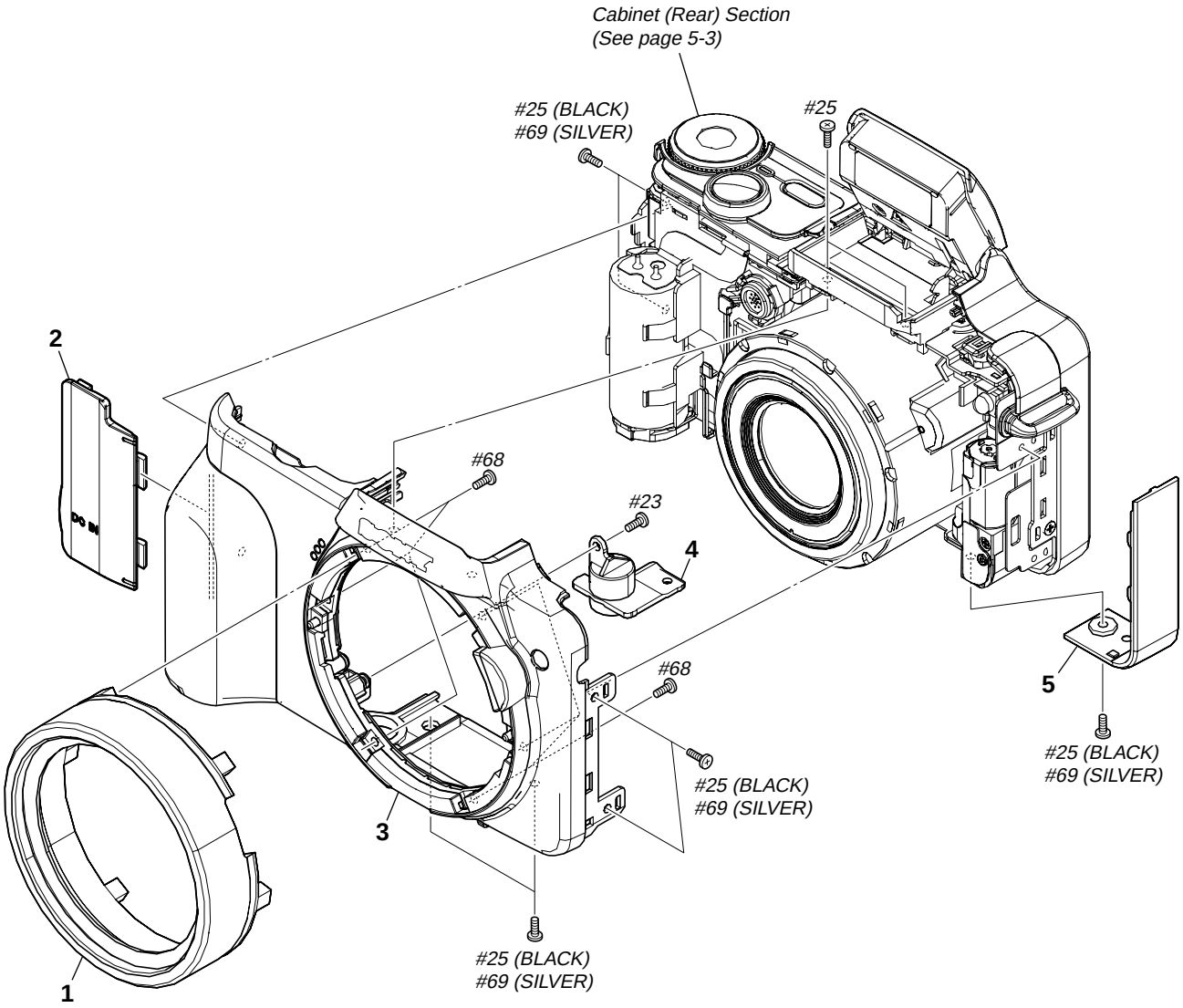
- Color Indication of Appearance Parts
  Example:
  (SILVER) : Cabinet's Color
  (Silver) : Parts Color

5. REPAIR PARTS LIST

DISASSEMBLY HARDWARE LIST

5-1. EXPLODED VIEWS

5-1-1. CABINET (FRONT) SECTION

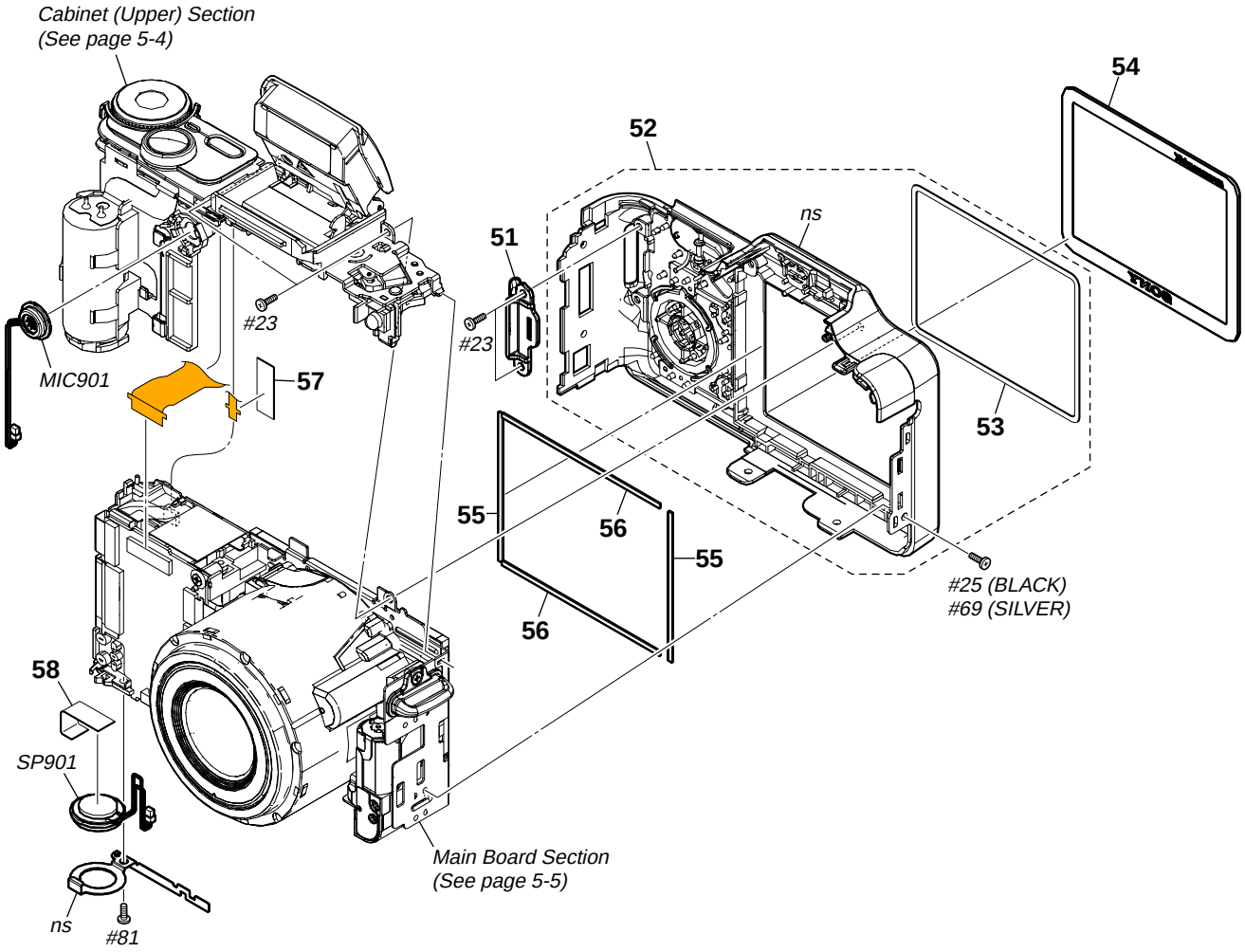


Ref. No.	Part No.	Description
1	3-271-051-01	RING, LENS (SILVER)
1	3-271-051-11	RING, LENS (BLACK)
2	3-271-031-01	LID, JACK (SILVER)
2	3-271-031-11	LID, JACK (BLACK)
3	X-2186-435-1	CABINET (FRONT) ASSY (SILVER)
3	X-2186-436-1	CABINET (FRONT) ASSY (BLACK)
4	3-271-049-01	SCREW, TRIPOD

Ref. No.	Part No.	Description
5	3-271-030-01	COVER (LOWER), SIDE (SILVER)
5	3-271-030-11	COVER (LOWER), SIDE (BLACK)
#23	3-080-204-11	SCREW, TAPPING, P2 (Black)
#25	2-635-562-21	SCREW (M1.7) (Black)
#68	2-655-581-01	SCREW 0+P2 M1.7 NEWTRU-STAR SG (Silver)
#69	2-599-475-21	SCREW (M1.7) (Silver)

5-1-2. CABINET (REAR) SECTION

ns: not supplied



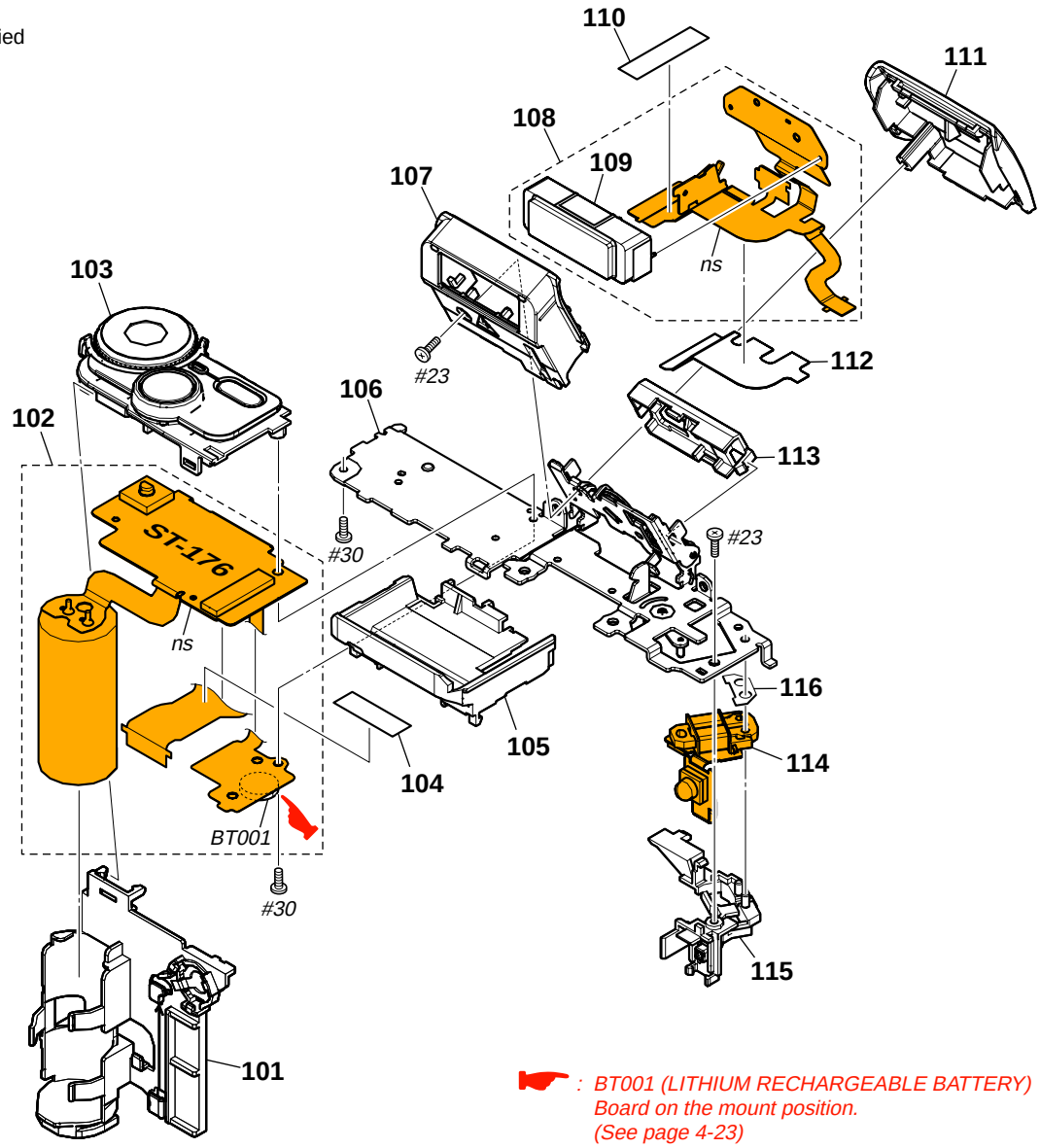
Ref. No.	Part No.	Description
* 51	3-271-090-01	BRACKET (BT), STRAP
52	X-2186-437-1	CABINET (REAR) ASSY (SILVER)
52	X-2186-438-1	CABINET (REAR) ASSY (BLACK)
53	3-271-083-01	SHEET, LCD WINDOW ADHESIVE
54	3-271-037-01	WINDOW, LCD
55	3-093-827-01	CUSHION (A (240)), LCD
56	3-098-009-01	CUSHION (B (240)), LCD
* 57	3-271-142-01	ST PROTECTION SHEET

Ref. No.	Part No.	Description
* 58	3-282-640-01	SHEET, SP ELECTROSTATIC
MIC901	1-542-728-21	MICROPHONE
SP901	1-825-945-41	LOUDSPEAKER (1.3CM)
#23	3-080-204-11	SCREW, TAPPING, P2 (Black)
#25	2-635-562-21	SCREW (M1.7) (Black)
#69	2-599-475-21	SCREW (M1.7) (Silver)
#81	2-515-756-01	SCREW (M1.7), TORASUTA, P2 (Silver)

HARDWARE LIST

5-1-3. CABINET (UPPER) SECTION

ns: not supplied



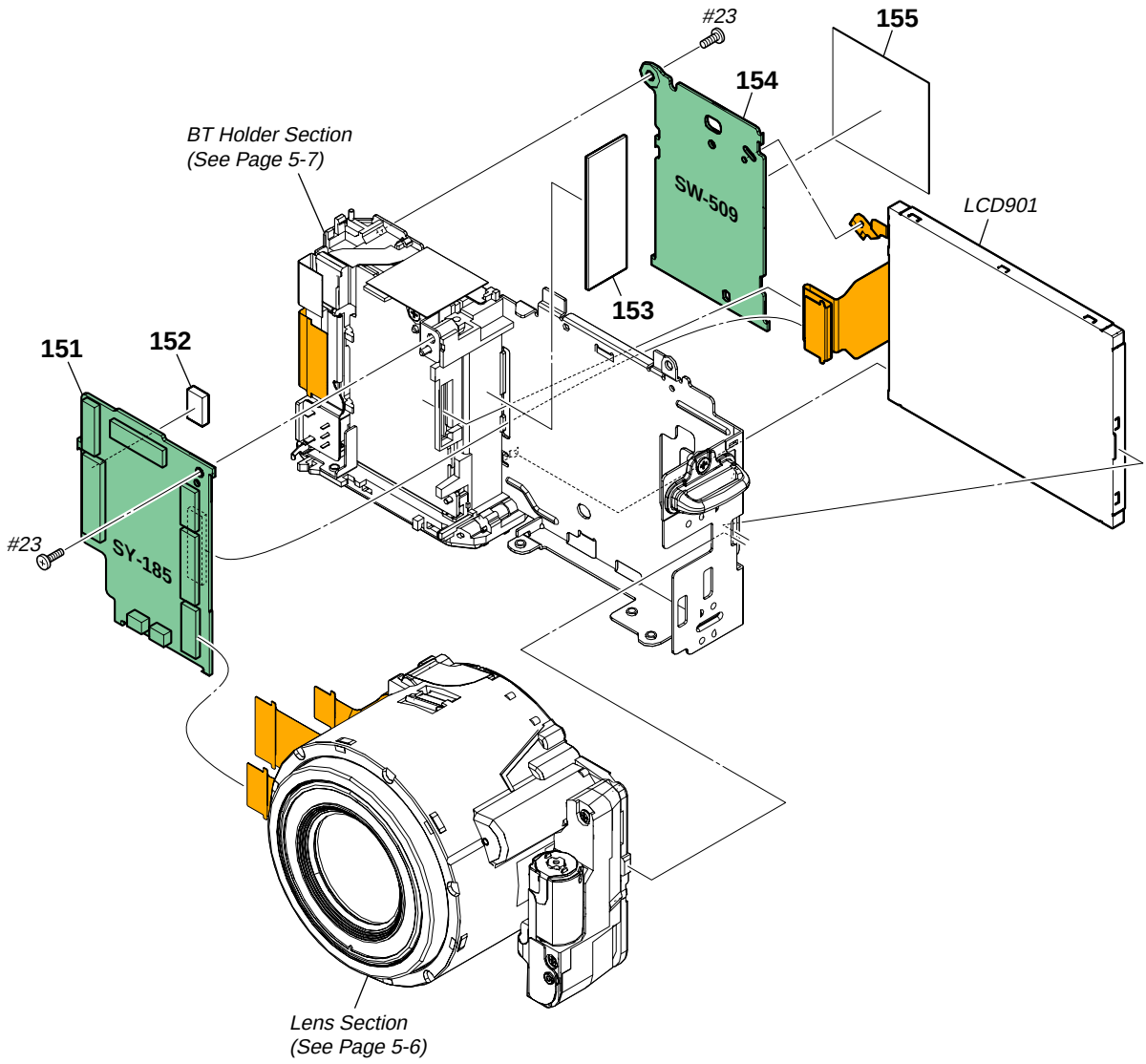
☛ : *BT001 (LITHIUM RECHARGEABLE BATTERY) Board on the mount position. (See page 4-23)*

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

• Refer to page 5-1 for mark ⚠.

Ref. No.	Part No.	Description
101	3-271-028-01	HOLDER, MAIN CONVERTER
102	A-1334-619-A	ST-176 FLEXIBLE BOARD, COMPLETE
103	X-2186-443-1	CABINET (UPPER) ASSY (SILVER)
103	X-2186-444-1	CABINET (UPPER) ASSY (BLACK)
* 104	3-271-142-01	ST PROTECTION SHEET
105	3-271-138-01	BASE, ST
106	X-2186-439-1	ST ASSY
107	X-2186-442-1	CASE (LOWER) ASSY, ST
108	A-1334-620-A	FL-179 FLEXIBLE BOARD, COMPLETE
⚠ 109	1-480-062-11	FLASH UNIT
* 110	3-271-137-01	SHEET (LOWER), INSULATING
111	X-2186-440-1	CASE (UPPER) ASSY, ST (SILVER)
111	X-2186-441-1	CASE (UPPER) ASSY, ST (BLACK)
* 112	3-271-140-01	SHEET, FL INSULATING
* 113	3-271-139-01	COVER, ST INNER
114	A-1334-621-A	PL-048 FLEXIBLE BOARD, COMPLETE
115	3-271-141-01	HOLDER, AF
116	3-282-327-01	SHEET, PL INSULATING
⚠ BT001	1-756-711-11	LITHIUM RECHARGEABLE BATTERY
#23	3-080-204-11	SCREW, TAPPING, P2 (Black)
#30	3-086-156-11	SCREW B1.2 (White)

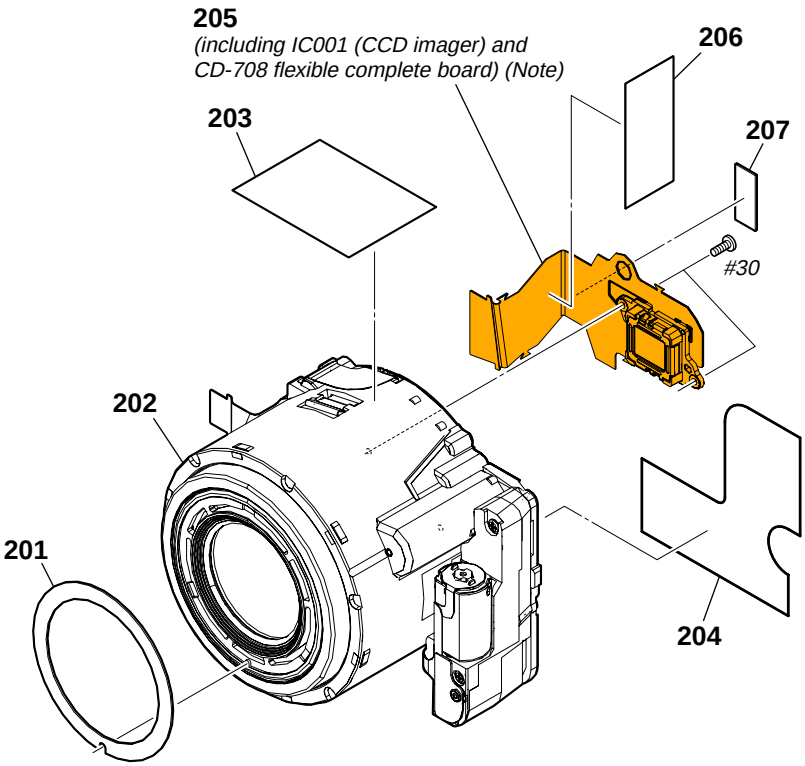
5-1-4. MAIN BOARD SECTION



Ref. No.	Part No.	Description
151	A-1363-833-A	SY-185 BOARD, COMPLETE (SERVICE)
* 152	3-271-034-01	SPACER, SY
* 153	3-275-534-01	SPACER, LCD FLEXIBLE
154	A-1334-618-A	SW-509 BOARD, COMPLETE

Ref. No.	Part No.	Description
* 155	3-278-995-01	SHEET, SW MUFFLE
LCD901	8-753-282-44	ACX358AKQ-3
#23	3-080-204-11	SCREW, TAPPING, P2 (Black)

5-1-5. LENS SECTION

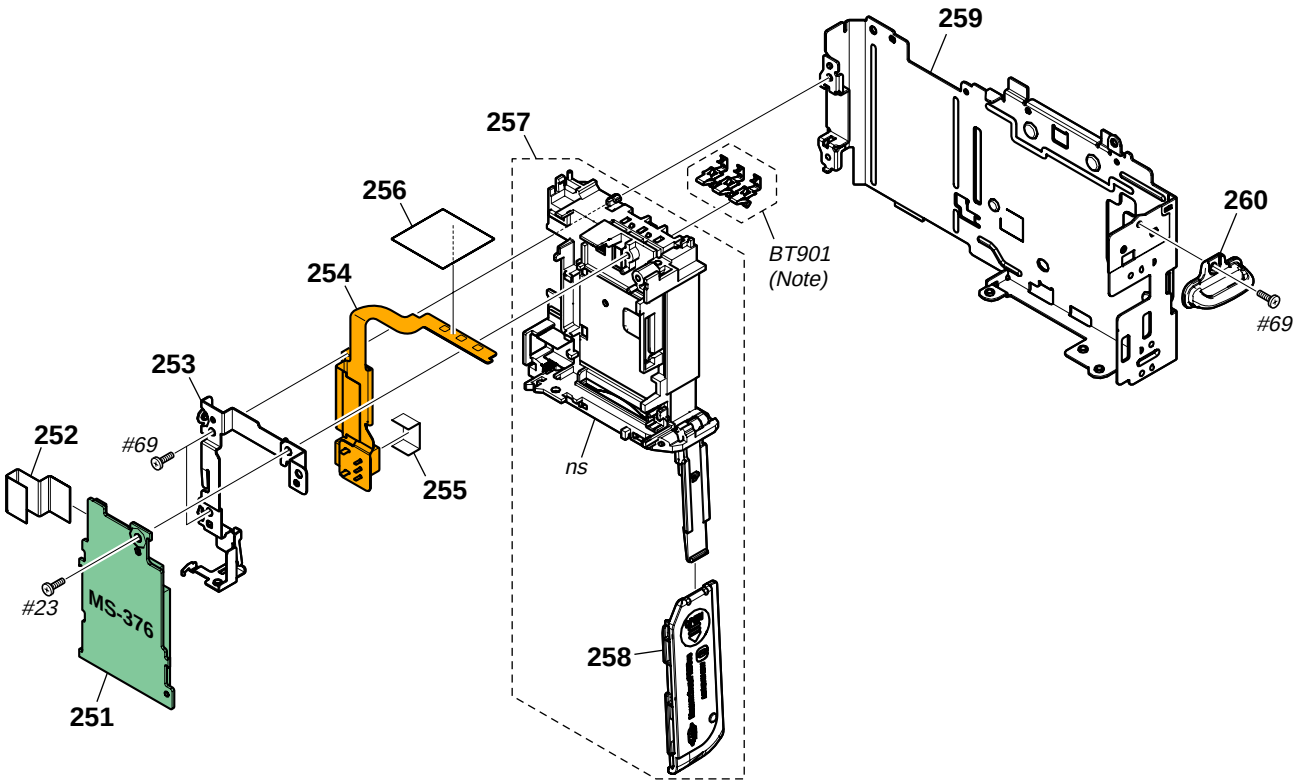


Note: Be sure to read “Precuations for Replacement of Imager” on page 4-2.

Ref. No.	Part No.	Description
201	3-271-144-01	LABEL, LENS
202	A-1359-213-A	LENS BLOCK ASSY (SERVICE USE)
* 203	3-271-143-01	SHEET, LENS FLEXIBLE PROTECTION
* 204	3-271-033-01	CUSHION, LENS RETAINER
205	A-1253-418-A	CCD BLOCK ASSY (including IC001 (CCD imager) and CD-708 flexible complete board) (Note)
* 206	3-271-032-01	SHEET, CD COPY
* 207	3-271-039-01	LCD SPACER A
#30	3-086-156-11	SCREW B1.2 (White)

5-1-6. BT HOLDER SECTION

ns: not supplied



Note: Refer to HELP “Installation method of battery terminal board” when changing the battery terminal board.

Ref. No.	Part No.	Description
251	A-1334-617-A	MS-376 BOARD, COMPLETE
252	1-834-119-11	CABLE, FLEXIBLE FLAT (FFC-091)
* 253	3-271-026-01	RETAINER, JK
254	A-1334-622-A	JK-348 FLEXIBLE BOARD, COMPLETE
* 255	3-271-035-01	SHEET, DC INSULATING
* 256	3-271-038-01	SHEET, BT TERMINAL INSULATING
257	X-2186-433-1	HOLDER ASSY, BT (SILVER)
257	X-2186-434-1	HOLDER ASSY, BT (BLACK)

Ref. No.	Part No.	Description
258	3-271-021-01	LID, BT (SILVER)
258	3-271-021-11	LID, BT (BLACK)
259	3-271-025-01	FRAME, MAIN
* 260	3-271-027-01	BRACKET (LE), STRAP
BT901	1-780-456-11	TERMINAL BOARD, BATTERY (Note)
#23	3-080-204-11	SCREW, TAPPING, P2 (Black)
#69	2-599-475-21	SCREW (M1.7) (Silver)

Electrical parts list of the CD-708 flexible board is not shown.
Page 5-8 is not shown.

5-2. ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description			
	A-1334-620-A	FL-179 FLEXIBLE BOARD, COMPLETE			
		**********			
⚠	1-480-062-11	FLASH UNIT			
		< CAPACITOR >			
⚠C101	1-100-758-11	CERAMIC CHIP	0.047uF	10%	250V
		< COIL >			
⚠* L101	1-457-498-21	COIL, TRIGGER			
		< RESISTOR >			
⚠R101	1-216-121-11	RES-CHIP	1M	5%	1/10W
		< SWITCH >			
S101	1-786-180-11	SWITCH, PUSH (1KEY) (STROBE POP-UP DETECT)			
S102	1-771-844-21	SWITCH, TACTILE (SMD) (►)			
	A-1334-622-A	JK-348 FLEXIBLE BOARD, COMPLETE			
		**********			
		(BT901 is not included in the JK-348 flexible complete board.) (CN201 (multi connector) is not supplied, but this is included in the JK-348 flexible complete board.)			
		< BATTERY TERMINAL >			
⚠BT901	1-780-456-11	TERMINAL BOARD, BATTERY			
		< CONNECTOR >			
CN201	(Not supplied)	CONNECTOR, MULTIPLE (SOCKET) (MULTI CONNECTOR)			
		< JACK >			
⚠J201	1-817-331-11	DC JACK 5P (DC IN)			
	A-1334-617-A	MS-376 BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-119-750-11	TANTAL. CHIP	22uF	20%	6.3V
C102	1-165-887-91	CERAMIC CHIP	0.22uF	10%	6.3V
		< CONNECTOR >			
* CN101	1-816-647-51	FFC/FPC CONNECTOR (LIF) 18P			
* CN102	1-819-990-21	MEMORY STICK DUO CONNECTOR 10P			
		< DIODE >			
D101	6-501-216-01	DIODE CL-271HR-C-TS (ACCESS)			
		< FERRITE BEAD >			
FB103	1-469-580-21	INDUCTOR, FERRITE BEAD (1005)			
FB104	1-469-580-21	INDUCTOR, FERRITE BEAD (1005)			
FB105	1-469-580-21	INDUCTOR, FERRITE BEAD (1005)			
FB107	1-469-580-21	INDUCTOR, FERRITE BEAD (1005)			

Ref. No.	Part No.	Description			
		< RESISTOR >			
R102	1-218-938-11	RES-CHIP	56	5%	1/16W
R103	1-218-940-11	RES-CHIP	82	5%	1/16W
R104	1-218-940-11	RES-CHIP	82	5%	1/16W
R105	1-218-940-11	RES-CHIP	82	5%	1/16W
R106	1-218-953-11	RES-CHIP	1K	5%	1/16W
R107	1-218-940-11	RES-CHIP	82	5%	1/16W
R108	1-218-938-11	RES-CHIP	56	5%	1/16W
R110	1-218-953-11	RES-CHIP	1K	5%	1/16W
	A-1334-621-A	PL-048 FLEXIBLE BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C001	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
		< CONNECTOR >			
* CN001	1-816-654-51	FFC/FPC CONNECTOR (LIF) 6P			
		< DIODE >			
D001	8-719-988-61	DIODE 1SS355TE-17			
D002	6-500-776-01	DIODE MAZW068H0LS0			
D003	6-501-524-01	DIODE DOR5099 (SELF-TIMER/AF ILLUMINATOR)			
		< PLUNGER >			
* RY001	1-455-056-11	SOLENOID, PLUNGER (STROBE OPEN)			
	A-1334-619-A	ST-176 FLEXIBLE BOARD, COMPLETE			
		**********			
		(S101 is not supplied, but this is included in the ST-176 flexible complete board.)			
		< LITHIUM BATTERY >			
⚠BT001	1-756-711-11	LITHIUM RECHARGEABLE BATTERY			
		< CAPACITOR >			
C001	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V
C003	1-164-933-11	CERAMIC CHIP	220PF	10%	50V
C004	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
⚠* C006	1-114-476-11	CAP, ELECT	183uF		315V
		< CONNECTOR >			
* CN001	1-818-087-51	CONNECTOR, FFC/FPC (LIF) 26P			
		< DIODE >			
D001	6-500-619-01	DIODE RB520S-40TE61			
⚠D002	6-501-141-01	DIODE FT02P80TP			
D101	6-501-030-01	DIODE SML-412MWT86 (POWER)			

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

• Refer to page 5-1 for mark ⚠.

ST-176 **SW-509**

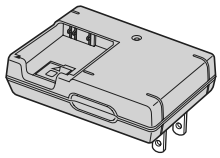
Ref. No.	Part No.	Description			
		< IC >			
IC001	6-707-555-01	IC TPS65552RGTR			
		< COIL >			
L001	1-456-995-22	INDUCTOR	4.7uH		
		< TRANSISTOR >			
⚠* Q001	6-551-686-01	TRANSISTOR	TIG030TS-S-TL-E		
		< RESISTOR >			
R002	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R003	1-218-989-11	RES-CHIP	1M	5%	1/16W
R004	1-218-940-11	RES-CHIP	82	5%	1/16W
		< COMPOSITION CIRCUIT BLOCK >			
RB101	1-234-376-11	RES, NETWORK	2.2K (1005X4)		
RB102	1-234-376-11	RES, NETWORK	2.2K (1005X4)		
		< SWITCH >			
S101	(Not supplied)	ROTARY SWITCH (MODE DIAL)			
S102	1-786-819-22	TACTILE SWITCH (SHUTTER)			
S103	1-771-844-21	SWITCH, TACTILE (SMD) (POWER)			
		< TRANSFORMER >			
⚠T001	1-445-108-21	TRANSFORMER, D.C-D.C CONVERTER			
	A-1334-618-A	SW-509 BOARD, COMPLETE			
		**********			
		< CONNECTOR >			
* CN001	1-816-654-51	FFC/FPC CONNECTOR (LIF) 6P			
		< RESISTOR >			
R001	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
		< COMPOSITION CIRCUIT BLOCK >			
RB001	1-234-376-11	RES, NETWORK	2.2K (1005X4)		
RB002	1-234-376-11	RES, NETWORK	2.2K (1005X4)		
		< SWITCH >			
S001	1-786-819-22	TACTILE SWITCH (W (ZOOM))			
S002	1-786-819-22	TACTILE SWITCH (T (ZOOM))			
S003	1-771-844-21	SWITCH, TACTILE (SMD) (MENU)			
S004	1-771-844-21	SWITCH, TACTILE (SMD) (HOME)			
S005	1-771-844-21	SWITCH, TACTILE (SMD) (◄ (MACRO))			
S006	1-771-844-21	SWITCH, TACTILE (SMD) (▲ (DISP))			
S007	1-771-844-21	SWITCH, TACTILE (SMD) (SET)			
S008	1-771-844-21	SWITCH, TACTILE (SMD) (▼ (SELF-TIMER))			
S009	1-771-844-21	SWITCH, TACTILE (SMD) (► (FLASH))			

Electrical parts list of the SY-185 board is not shown.
Pages 5-11 to 5-14 are not shown.

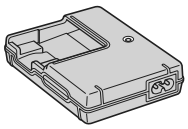
• Refer to page 5-1 for mark ⚠.

Checking supplied accessories.

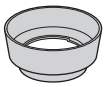
Note: This item is supplied with the unit as an accessory, but is not prepared as a service part.



Battery Charger
BC-CSGB/CSGC
⚠ 1-480-175-11 (J)
⚠ 1-480-175-21 (US, CND)

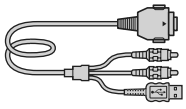


Battery Charger
BC-CSGB/CSGC
⚠ 1-480-175-31
(EXCEPT US, CND, BR, J)

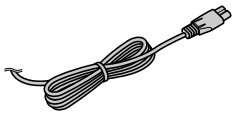


Lens Hood
3-271-150-01

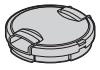
Adaptor Ring
3-271-149-01



USB, A/V Cable for
Multi-use Terminal
1-829-866-81

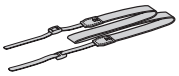


Power Cord
⚠ 1-823-947-71 (KR)
⚠ 1-824-910-31 (AEP, E)
⚠ 1-827-945-61 (AUS)
⚠ 1-828-050-31 (JE)
⚠ 1-832-106-31 (AR)
⚠ 1-832-121-31 (CH)
⚠ 1-832-169-31 (UK, HK)

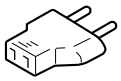


Lens Cap
X-2186-432-1

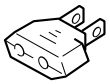
Lens Cap Strap
3-979-194-31



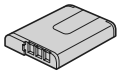
Shoulder Strap
2-629-892-11



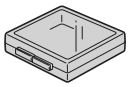
Conversion 2P Adaptor
⚠ 1-569-007-12 (JE)



Conversion 2P Adaptor
⚠ 1-569-008-12 (E)



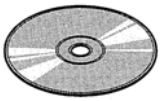
Rechargeable Battery Pack
NP-BG1
(Note)



Battery Case
(Note)

• Refer to page 5-1 for mark ⚠.

Instruction Manual
- 3-268-884-01 (JAPANESE) (J)
- 3-268-884-11 (ENGLISH) (CND, AEP, UK, E, HK, AUS, JE)
- 3-268-884-21 (FRENCH, ITALIAN) (US, CND, AEP)
- 3-268-884-31 (SPANISH, PORTUGUESE) (AEP, E, AR, JE)
- 3-268-884-41 (GERMAN, DUTCH) (AEP)
- 3-268-884-51 (TRADITIONAL CHINESE, SIMPLIFIED CHINESE) (E, HK, JE)
- 3-268-884-61 (RUSSIAN, UKRAINIAN) (AEP)
- 3-268-884-71 (ARABIC, PERSIAN) (E)
- 3-268-884-81 (KOREAN) (KR, JE)
- 3-268-884-91 (POLISH, CZECH) (AEP)
- 3-268-885-11 (HUNGARIAN, SLOVAK) (AEP)
- 3-268-885-21 (SWEDISH, FINNISH) (AEP)
- 3-268-885-31 (NORWEGIAN, DANISH) (AEP)
- 3-268-885-41 (THAI, MALAY) (E)
- 3-268-885-51 (TURKISH, GREEK) (AEP)
- 3-268-885-61 (ENGLISH, SPANISH) (US, CND)
- 3-268-885-71 (SIMPLIFIED CHINESE) (CH)



CD-ROM
(Cyber-shot Application Software/
“Cyber-shot Handbook”/
“Cyber-shot Step-up Guide”)
- 3-268-879-01

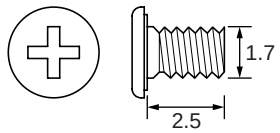
Cyber-shot Handbook (PDF)

The CD-ROM supplied contains all of language version of the Cyber-shot Handbook (PDF) for printing.
- The printed matter is not supplied. If required, please order it with the part number below.
- (Only for destination Japanese model)
  日本国内については日本語のみが印刷での部品供給可能です。

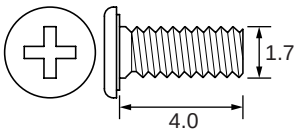
- 3-268-881-01 (JAPANESE)
- 3-268-881-11 (ENGLISH)
- 3-268-881-21 (FRENCH)
- 3-268-881-31 (ITALIAN)
- 3-268-881-41 (SPANISH)
- 3-268-881-51 (PORTUGUESE)
- 3-268-881-61 (GERMAN)
- 3-268-881-71 (DUTCH)
- 3-268-881-81 (TRADITIONAL CHINESE)
- 3-268-881-91 (SIMPLIFIED CHINESE)
- 3-268-882-11 (RUSSIAN)
- 3-268-882-21 (ARABIC)
- 3-268-882-31 (PERSIAN)
- 3-268-882-41 (KOREAN)
- 3-268-882-51 (POLISH)
- 3-268-882-61 (CZECH)
- 3-268-882-71 (HUNGARIAN)
- 3-268-882-81 (SLOVAK)
- 3-268-882-91 (SWEDISH)
- 3-268-883-11 (FINNISH)
- 3-268-883-21 (NORWEGIAN)
- 3-268-883-31 (DANISH)
- 3-268-883-41 (THAI)
- 3-268-883-51 (MALAY)
- 3-268-883-61 (TURKISH)
- 3-268-883-71 (GREEK)
- 3-268-883-81 (UKRAINIAN)

HARDWARE LIST (1/5)

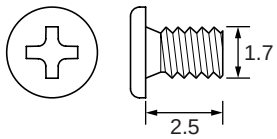
#1: M1.7 X 2.5
(Black)
2-635-562-11



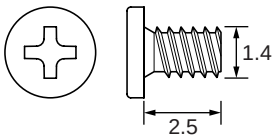
#2: M1.7 X 4.0
(Black)
2-635-562-31



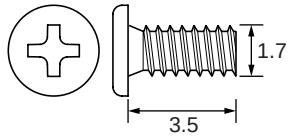
#3: M1.7 X 2.5
(Red)
2-660-401-01



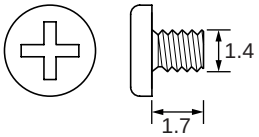
#4: M1.4 X 2.5 (Tapping)
(Dark Silver)
3-348-998-81



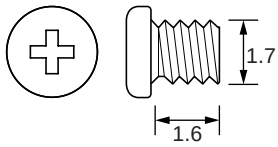
#5: M1.7 X 3.5 (Tapping)
(Black)
3-080-204-01



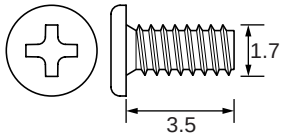
#6: M1.4 X 1.7
(Silver)
2-598-474-01



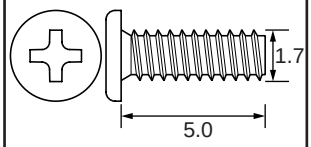
#7: M1.7 X 1.6
(Black)
7-627-552-18



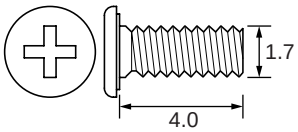
#8: M1.7 X 3.5 (Tapping)
(Silver)
3-078-890-01



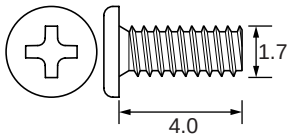
#9: M1.7 X 5.0 (Tapping)
(Silver)
3-078-890-21



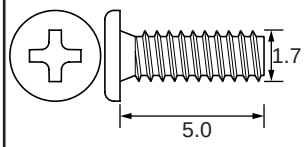
#10: M1.7 X 4.0
(Silver)
2-599-475-31



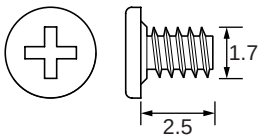
#11: M1.7 X 4.0 (Tapping)
(Silver)
3-078-890-11



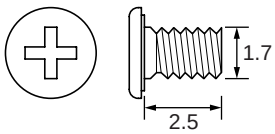
#12: M1.7 X 5.0 (Tapping)
(Black)
3-080-204-21



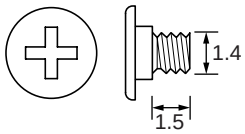
#13: M1.7 X 2.5 (Tapping)
(Silver)
3-085-397-01



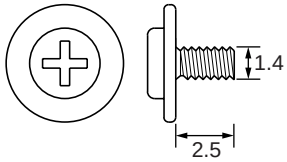
#14: M1.7 X 2.5
(Silver)
2-599-475-11



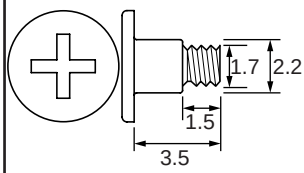
#15: M1.4 X 1.5
(Silver)
3-062-214-01



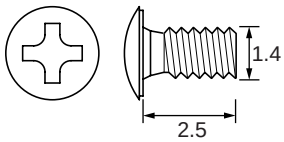
#16: M1.4 X 2.5
(Silver)
2-586-337-01



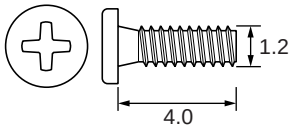
#17: M1.7 X 1.5
(Silver)
2-586-389-01



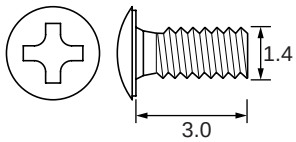
#18: M1.4 X 2.5
(Silver)
2-635-591-21



#19: M1.2 X 4.0 (Tapping)
(Red)
3-086-156-21

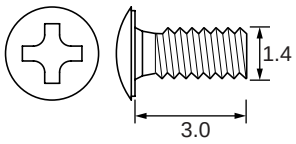


#20: M1.4 X 3.0
(Silver)
2-635-591-31

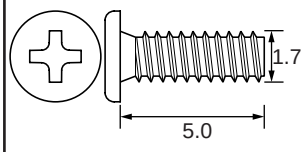


HARDWARE LIST (2/5)

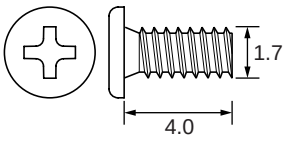
#21: M1.4 X 3.0
(Black)
2-662-396-21



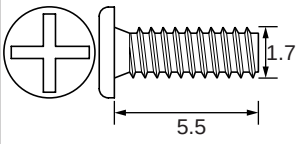
#22: M1.7 X 5.0 (Tapping)
(Silver)
3-083-261-01



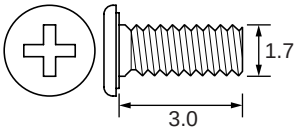
#23: M1.7 X 4.0 (Tapping)
(Black)
3-080-204-11



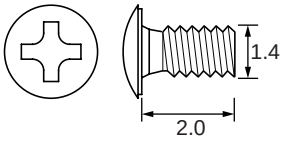
#24: B1.7 X 5.5 (Tapping)
(Black)
4-679-805-11



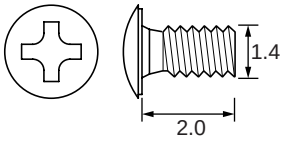
#25: M1.7 X 3.0
(Black)
2-635-562-21



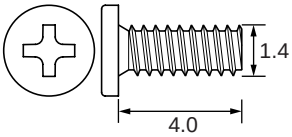
#26: M1.4 X 2.0
(Silver)
2-635-591-11



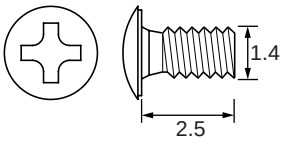
#27: M1.4 X 2.0
(Black)
2-662-396-11



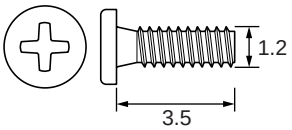
#28: M1.4 X 4.0 (Tapping)
(Dark Silver)
3-348-998-61



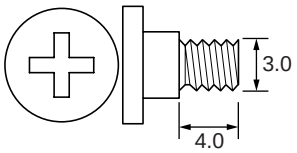
#29: M1.4 X 2.5
(Black)
2-662-396-01



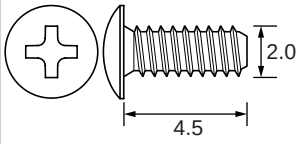
#30: M1.2 X 4.0 (Tapping)
(White)
3-086-156-11



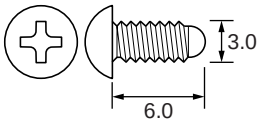
#31: M3.0 X 4.0
(Silver)
2-102-434-01



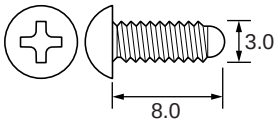
#32: M2.0 X 4.5 (Tapping)
(Silver)
2-102-498-01



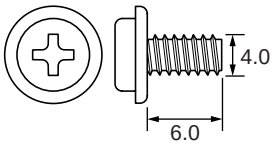
#33: M3.0 X 6.0
(Silver)
3-077-331-21



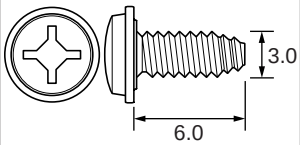
#34: M3.0 X 8.0
(Black)
3-077-331-41



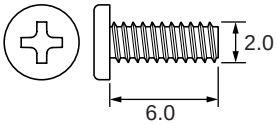
#35: M4.0 X 6.0 (Tapping)
(Silver)
3-975-291-02



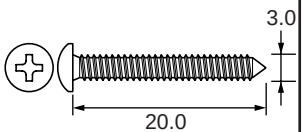
#36: M3.0 X 6.0
(Silver)
4-886-821-11



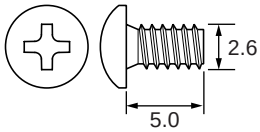
#37: M2.0 X 6.0 (Tapping)
(Black)
3-080-206-31



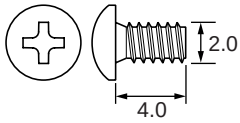
#38: M3.0 X 20.0 (Tapping)
(Silver)
7-685-651-79



#39: M2.6 X 5.0 (Tapping)
(Black)
7-685-791-09

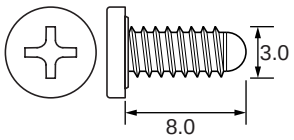


#40: M2.0 X 4.0 (Tapping)
(Silver)
7-685-851-04

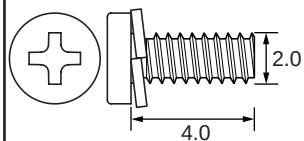


HARDWARE LIST (3/5)

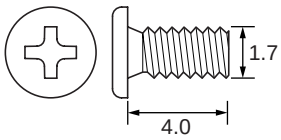
#41: M3.0 X 8.0 (Tapping)
(Silver)
3-065-748-01



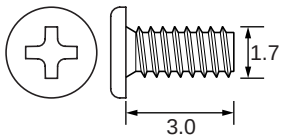
#42: M2.0 X 4.0 (Tapping)
(Silver)
7-628-253-00



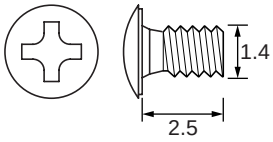
#43: M1.7 X 4.0
(Red)
2-660-401-31



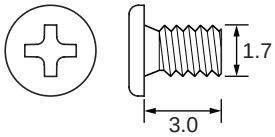
#44: M1.7 X 3.0 (Tapping)
(Silver)
3-078-890-61



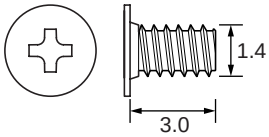
#45: M1.4 X 2.5
(Silver)
2-587-151-01



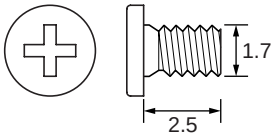
#46: M1.7 X 3.0
(Red)
2-660-401-11



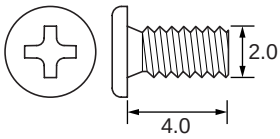
#47: M1.4 X 3.0 (Tapping)
(Silver)
2-665-774-01



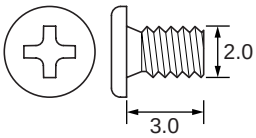
#48: M1.7 X 2.5
(Silver)
3-973-497-91



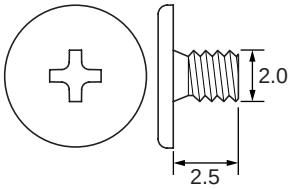
#49: M2.0 X 4.0
(Black)
2-630-005-31



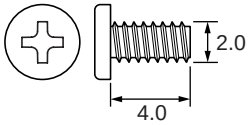
#50: M2.0 X 3.0
(Red)
2-891-494-11



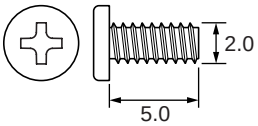
#51: M2.0 X 2.5
(Silver)
3-073-686-01



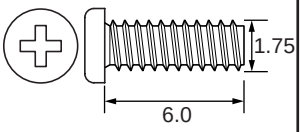
#52: M2.0 X 4.0 (Tapping)
(Black)
3-080-206-11



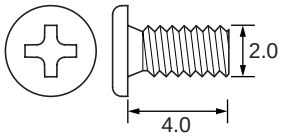
#53: M2.0 X 5.0 (Tapping)
(Black)
3-080-206-21



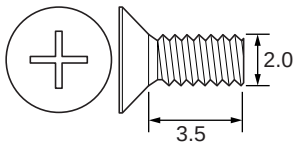
#54: M1.75 X 6.0 (Tapping)
(Black)
3-318-203-11



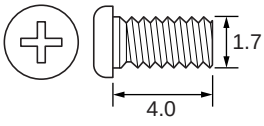
#55: M2.0 X 4.0
(Silver)
2-655-582-11



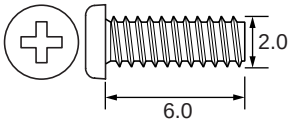
#56: M2.0 X 3.5
(Silver)
3-067-187-11



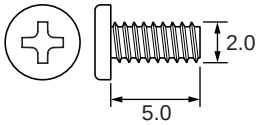
#57: M1.7 X 4.0
(Black)
7-627-852-18



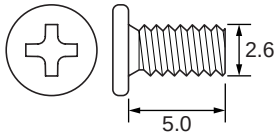
#58: M2.0 X 6.0 (Tapping)
(Silver)
3-719-408-11



#59: M2.0 X 5.0 (Tapping)
(Silver)
3-080-205-21

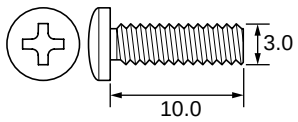


#60: M2.6 X 5.0
(Black)
3-061-062-11

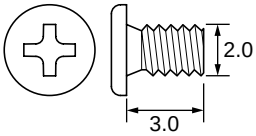


HARDWARE LIST (4/5)

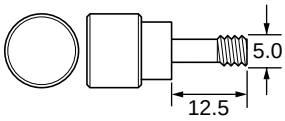
#61: M3.0 X 10.0
(Black)
7-682-549-09



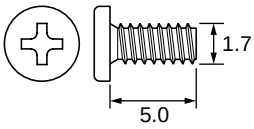
#62: M2.0 X 3.0
(Silver)
3-080-202-21



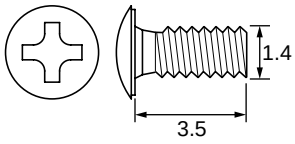
#63: M5.0 X 12.5
(Black)
3-060-811-21



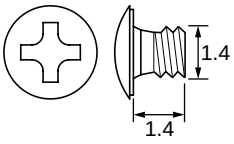
#64: M1.7 X 5.0 (Tapping)
(Silver)
2-666-551-21



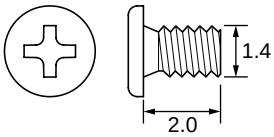
#65: M1.4 X 3.5
(Silver)
2-635-591-01



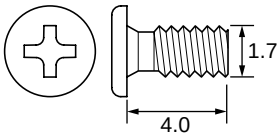
#66: M1.4 X 1.4
(Silver)
2-635-591-41



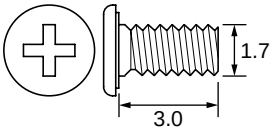
#67: M1.4 X 2.0
(Silver)
3-389-523-16



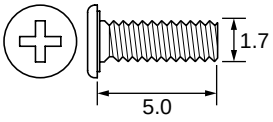
#68: M1.7 X 4.0
(Silver)
2-655-581-01



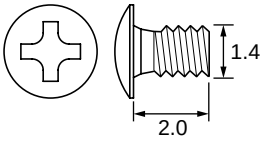
#69: M1.7 X 3.0
(Silver)
2-599-475-21



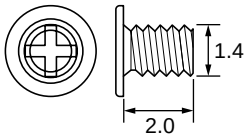
#70: M1.7 X 5.0
(Silver)
2-599-475-41



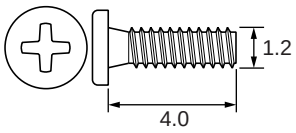
#71: M1.4 X 2.0
(Red)
3-208-537-01



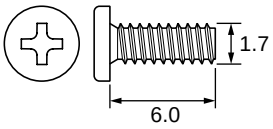
#72: M1.4 X 2.0
(Silver)
4-663-621-41



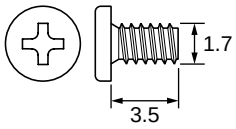
#73: M1.2 X 4.0 (Tapping)
(Black)
3-086-156-61



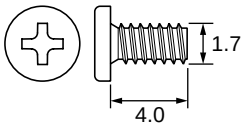
#74: M1.7 X 6.0 (Tapping)
(Silver)
2-666-551-31



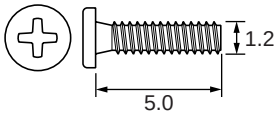
#75: M1.7 X 3.5 (Tapping)
(Silver)
2-666-551-01



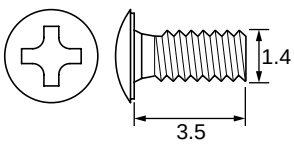
#76: M1.7 X 4.0 (Tapping)
(Silver)
2-666-551-11



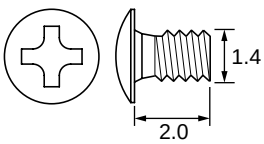
#77: M1.2 X 5.0 (Tapping)
(Silver)
3-086-156-31



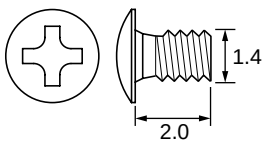
#78: M1.4 X 3.5
(Red)
3-208-537-11



#79: M1.4X 2.0
(Silver)
2-587-151-11



#80: M1.4X 2.0
(Black)
3-279-411-01



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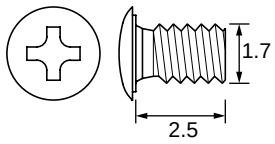
#81: M1.7 X 2.5
(Silver)
2-515-756-01



Revision History

Ver.	Date	History	Contents	S.M. Rev. issued
1.0	2007.08	Official Release	—	—