DSC-H50 RMT-DSC2

SONY. SERVICE MANUAL

Ver. 1.2 2008. 09

LEVEL 2

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



File this supplement with the service manual previously issued.

(DI08-234)

• Change of Repair Parts

2. DISASSEMBLY 2-2. DISASSEMBLY

Correct Changed portion.



5. REPAIR PARTS LIST 5-1. EXPLODED VIEWS

Correction : Changed portion.



-2-

DSC-H50 RMT-DSC2

SONY SERVICE MANUAL

Ver. 1.3 2009.06

SUPPLEMENT-2

File this supplement with the service manual. (DI09-081)

Subject

- Change of Schematic Diagrams
- Change of Electrical Parts List

4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

4-2. SCHEMATIC DIAGRAMS

Before Change After Change Page SY-201 BOARD (1/10) (Location: F-7 to G-9) SY-201 BOARD (1/10) (Location: F-7 to G-9) DDC1P8 VFB B051 XX DDC1P8_PWR ₩<u>L00</u>9 10uH DDC1P8_LX DDC1P8_LX DDC1P8_PG A 9 C044 22u C0 XX XX DDC1P8_INM C041 220p DDC1P8 RF XRESET_REQ XNAND_RESET XSYS_RESET SO SI SCK XCE TEST2 VBUS_IN XMS_IN XEXT_IN XPWR_ON3 XPWR_ON2 XPWR_ON1 XPWR_ON1 4-5 DCBL F7 E7 D10 G5 D9 D8 D7 C10 D6 D5 C9 C7 C6 C8 C5 0.1u ۱×' C028 XX C 064 1k C 065 ¥ \$032 R031 SY-201 BOARD (2/10) (Location: C-2 to C-3) SY-201 BOARD (2/10) (Location: C-2 to C-3) REGC -(C3) 4-6 C209 C205 1 u WP XX REG_GND >>>>

DSC-H50_L3 9-852-286-83

Sony EMCS Co.



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

Points changed portion



Points changed portion





: Points changed portion



5. REPAIR PARTS LIST

5-2. ELECTRICAL PARTS LIST

Points deleted portion

Page			Before change	9					After change		
	SY-201 BOARD							SY-201 BOARD			
	<u>Ref. No.</u>	<u>Part No.</u>	Description				<u>Ref. No.</u>	<u>Part No.</u>	Description		
			< CAPACITOR >								
	C044	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V					
	C064	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V					
	C209	1-125-777-11	CERAMIC CHIP	0.1uF	10%	<u>10V</u>					
5 40	C211	1-125-777-11	CERAMIC CHIP	0.1uF	10%	• 10V					
5-12	C213	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V					
	C243	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V					
	C249	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V					
	C282	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V					
	* C321	1-114-582-11	CERAMIC CHIP	0.1uF	10%	16V					
	C326	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V					

Points changed portionPoints deleted portion

Page			Before chang	e					After change
	SY-201	BOARD					SY-201	BOARD	
	<u>Ref. No.</u>	<u>Part No.</u>	Description				<u>Ref. No.</u>	<u>Part No.</u>	Description
			< CAPACITOR >						
	<u>C387</u>	1-125-777-11	CERAMIC CHIP	0.1uF	10%	<u>10V</u>			
	C389	1-125-777-11	CERAMIC CHIP	0.1uF	10%	<u>10V</u>			
	C395	1-100-611-91	CERAMIC CHIP	22uF	20%	<u>6.3V</u>			
	<u>C503</u>	1-125-777-11	CERAMIC CHIP	0.1uF	10%	<u>10V</u>			
5-13	C504	1-165-908-11	CERAMIC CHIP	1uF	10%	→ <u>10V</u>			
	C507	1-125-777-11	CERAMIC CHIP	0.1uF	10%	• 10V			
	C522	1-125-777-11	CERAMIC CHIP	0.1uF	10%	<u>10V</u>			
	C603	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V			
	C619	1-165-908-11	CERAMIC CHIP	1uF	10%	5 <u>10V</u>			
			< DIODE >			•			
	* D601	6-501-947-01	DIODE MA2S11	10G8S0					
						•			
5-15			< RESISTOR >						< RESISTOR >
	R601	1-218-929-11	RES-CHIP	10	5%	1/16W	R601	<u>1-218-990-11</u>	SHORT CHIP 0

DSC-H50 RMT-DSC2

SERVICE MANUAL



Internal memory **ON BOARD**

Revised-3

Replace the previously issued SERVICE MANUAL 9-852-286-33 with this Manual.



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LEVEL 2

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

Photo:	Blac

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

Precaution on Replacing the SY-201 Board

DIGITAL STILL CAMERA



elf Diagnosis

Cuber-shot





SPECIFICATIONS

Camera

[System]

Image device: 7.70 mm (1/2.3 type) color CCD, Primary color filter • Only 7.30mm (1/2.5type equivalent) area is used in the camera. Total pixel number of camera: Approx. 10.3 Megapixels Effective pixel number of camera: Approx. 9.1 Megapixels Lens: Carl Zeiss Vario-Tessar 15Å~ zoom lens f = 5.2 - 78 mm (31 - 465 mm (35 mm film equivalent))F2.7(W) - 4.5(T) Exposure control: Automatic exposure, Shutter speed priority, Aperture priority, Manual exposure, Scene Selection (10 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. 15MB), "Memory Stick Duo" Flash: Flash range (ISO sensitivity (Recommended exposure Index) set to Auto): Approx. 0.2 to 9.1m (77/8inches to 29feet 103/8inches) (W)/ approx. 1.2 to 5.5m (3feet 111/4inches to 18feet 5/8inches) (T) Viewfinder: Electric view finder (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: 7.5cm (3.0type) TFT drive Total number of dots: 230 400 (960 Å~ 240) dots

[Finder]

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

[Power, general]

Power: Rechargeable battery pack NP-BG1, 3.6V NP-FG1 (not supplied), 3.6V AC-LS5K AC Adaptor (not supplied), 4.2V Power consumption (during shooting, LCD screen on): 1.1 W Operating temperature: 0 to 40°C (32 to 104°F) Storage temperature: -20 to $+60^{\circ}$ C (-4 to $+140^{\circ}$ F) Dimensions: $116.1 \times 81.4 \times 86.0$ mm $(45/8 \times 31/4 \times 31/2$ inches) (W/H/D, excluding protrusions) Mass: Approx. 547g (1lb 3.3oz) (including NP-BG1 battery pack, strap, etc.) Microphone: Monaural Speaker: Monaural Exif Print: Compatible PRINT Image Matching III: Compatible PictBridge: Compatible

BC-CSGB/BC-CSGC battery charger

Power requirements: AC 100V to 240V, 50/60Hz, 2.6W (BC-CSGB)/2W (BC-CSGC) Output voltage: DC 4.2V, 0.25A Operating temperature: 0 to 40°C (32 to 104°F) Storage temperature: -20 to +60°C (-4 to +140°F) Dimensions: Approx. $62 \times 24 \times 91$ mm ($2 \ 1/2 \times 31/32 \times 35/8$ inches) (W/H/D) Mass: Approx. 75g (2.7oz)

Rechargeable battery pack NP-BG1

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

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

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ! LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE △ 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 leadfree 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



1-1. PRECAUTION ON REPLACING THE SY-201 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			is Cor	de		
Block Block Function		Detailed Code		Symptom/State	Correction	
					The internal memory has experienced a format error.	Format the internal memory.
					"Memory Stick Duo" is unformatted.	Format the "Memory Stick Duo".
C	1	3	0	1	"Memory Stick Duo" is broken.	Insert a new "Memory Stick Duo".
	1	ļ			"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.
Е	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 2) of CN401 on the SY-201 board). If it is OK, check the focus motor drive IC (IC401 on the SY-201 board).
Е	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 ⑦ of CN401 on the SY-201 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-201 board).
Е	6	2	0	2	Abnormality of IC for steadyshot.	Check or replacement of the IC for steadyshot (IC503 on the SY-201 board).
Е	6	2	1	0	Lens initializing failure.	Check or replacement of the IC for steadyshot (IC503 on the SY-201 board).
Е	6	2	1	1	Lens overheating (PITCH).	Check the HALL element (PITCH) of optical image stabilizer (pin ③), ③) of CN401 on the SY-201 board). If it is OK, check PITCH/YAW angular velocity sensor (SE502 on the SY-201 board) peripheral circuits.
Е	6	2	1	2	Lens overheating (YAW).	Check the HALL element (YAW) of optical image stabilizer (pin (1), (2), (2), (2), (2), (2), (2), (2), (2
Е	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".

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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.

- ⑦ Select [Initialize] with ▲/▼ on the control button, then press ●. The message "Initialize all settings" appears.
- 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-201 board, erase the data in internal memory of the board before replacement. **Note 2:** When replacing the SY-201 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.
- 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.
- ⑦ 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.

Message 🗙
Write Enable Setting Complete
OK.

- 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 - S 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 、 「 \mathbf{D} 」 を 行 っ て く だ さ い 。

USシリアルNo.

セットは、1 台毎に異なる固有のI(数 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、このが書き込まれていないので、基板交換後にを入力する必要があります。 ADJ編 を参照して、「US」」を行ってください。

1 - 自己診断機能

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, L 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 - 自己診断表示

本機の動作に不具合が生じたとき,L 画面にアルファベットと4桁の数字が表示され、3. 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 - 自己診断コード表

自己診断コード			コード			
対応者	対 応 者 機能 コード		細 - ド	症状/状態	対応/方法	
С	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。
С	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。
Е	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(S 基板 01 20 ピン)を点検する。異常なければフォーカスモータ駆動I(S 基板I)を点検
_						する。
Е	6	1	1	0	スーム動作の英常。 (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(S 基板 01① ピン)を点検する。異常なければズームモータ駆動I (S 基板I)を点検する。
Е	6	2	0	2	手振れ補正用の異常。	手振れ補正用I(S 基板I)を点検または交換する。
Е	6	2	1	0	手振れ補正用の異常。 (レンズ初期化異常)	手振れ補正用I(S 基板I)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 (P)	光学手振れ補正ブロックのホール素子(P)(S 基板 GO 1 35, 30 ピン)を点検する。異常なければ P角速度センサ(S 基板 S)周辺の回 路を点検する。
Е	6	2	1	2	レンズオーバーヒート (WW)	光学手振れ補正ブロックのホール素子(WW (S 基板 CM 0 1 30), 32 ピン)を点検する。異常なければ P角速度センサ(S 基板 S) 周辺の回 路を点検する。
Е	6	2	2	0	サーミスタの異常。	レンズブロックを交換する。
Е	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。 (N)t
Е	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。

▶ t :交換後は、必ず「1 フラッシュエラー発生時の対処法」を行って下さい。

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1 - 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 - 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。)

Ыt : S 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。

Ыt:S 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

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。

フォーマット

- 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。

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。

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。

○■ ([美们]を選び、中犬の●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 - 内蔵メモリヘデータを書き戻す方法

通常は、**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(₩)を使用します。

書き戻し方法

1)カメラと **E**マスストレージ 接続し、ドライバを"S" い切り 替える。

2)書き込み許可ツールとS 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。

Message 🔀
Write Enable Setting Complete
ОК

5)ドライバを元に戻して、カメラと使マスストレージ接続する。

6)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1の接続を解除し、カメラの電源を0にする。

注意:カメラの電源をGLすることにより,書き込み許可の設定が解除されます。

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-194 BOARD'S CHARGING CAPACITOR (C205)

The charging capacitor (C205) of the ST-194 board is charged up to the maximum 315 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. To avoid the spark with the metal plate,wrap the short jig with the insulation tape.



2-1. IDENTIFYING PARTS





HARDWARE LIST

EXPLODED VIEW

2-2. DISASSEMBLY

2-2-1. OVERALL SECTION

Follow the disassembly in the numerical order given. ① Cabinet (Rear) Section (①-1 to ①-10) ② Retainer SW (②-1) ③ Side Cabinet (R) Block (③-1 to ③-2)



2-2-2. FRONT PANEL SECTION-1

Follow the disassembly in the numerical order given. (1) Loudspeaker (1.3cm) (1)-1 to (1)-3) (2) SY-201 Board (2)-1 to (2)-16) (3) Lens Block (3)-1 to (3)-3)





2-2-3. FRONT PANEL SECTION-2

Follow the disassembly in the numerical order given. (1) Battery Holder/Stroboscope Block ((1-1 to (1-5)) (2) Battery Holder Block ((2-1 to (2-4)))

③ ST-195 Flexible Board (③-1 to ③-8)





2-2-4. FRONT PANEL SECTION-3

Follow the disassembly in the numerical order given. ① Control Switch Block (①-1 to ①-4) ② Front Panel Block (②-1 to ②-5)





2-2-5. CABINET (REAR) SECTION

Follow the disassembly in the numerical order given. (1) SW-532 Board ((1-1 to (1-5)) (2) LCD Section ((2-1 to (2-4)))





2-2-6. LCD SECTION

Follow the disassembly in the numerical order given. ① P Cabinet (C) Assy (470) (①-1 to ①-9) ② CK-198 Board (②-1 to ②-8)





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

HELP01

In case of assembling the cabinet (rear) assy, attach it after turning fully counterclockwise the visibility dial. Be careful about the lever inside of the eye cup assy doesn't go over the EVF lever.





Bend the flexible board to the main body side at claws.



HELP05 INSTALLATION METHOD OF THE BATTERY TERMINAL BOARD

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



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



THE METHOD OF ATTACHMENT OF HARNESS (HN-042 to HN-044)

(1) Solder three harnesses to ST-195 flexible board and ST-194 board.

Note: Be careful about the colors of harnesses.



(2) Attach ST insulating sheet to ST base assy.



 Attach ST-195 flexible board to ST base assy and insert three harnesses to lib deeply.
 Note: Be careful about the overlaps of harnesses.
 Note: Be careful not to damage the covering of harnesses.



 Insert the harnesses in the arrow direction so that the harnesses go to right angle in lib.
 Note: Be sure to perform it under the popping up is closed.



(5) Pass three harnesses in lib.Note: Be careful about the overlaps of harnesses.



⑦ Pull up the popping up and straighten three harnesses.



6 Attach FL cover.



(8) Attach Cabinet (Upper).



(9) Attach ST cover.



(1) Attach Capacitor holder and arrange three harnesses as shown in the figure.



- (2) Assemble Capacitor holder and BT holder cover with ST-194 board to Battery holder block and secure them with a screw.
- 1 Pull up the popping up and secure a screw.



THE METHOD OF ATTACHMENT OF PLUNGER SOLENOID

- Attach Plunger solenoid to three pins while closing the popping up.
 Note : Be sure not to touch the copper leads or contacts.
 - Plunger Solenod



③ Attach PL-051 board while positioning to two bosses and secure it with two screws.



- ④ Solder two points.
- ② Attach Solenoid retainer to two pins and secure it with a screw.







HELP09



THE METHOD OF INSTALLATION OF LCD BLOCK

① Pull out CK-199 flexible board from the underneath of hinge assy (470) and put it on the cabinet (rear).



② Insert hinge assy (470) to cabinet (rear) as shown in the figure.



③ Position hinge assy to two bosses and secure it with four screws.



 Position CK-199 flexible board to the dowel and attach it to adhesive portion.
 At this time, make the free space to the panel side and no space to the front side.



Pass it through this point of Cabinet (Rear)
HELP11

CK-199 FLEXIBLE BOARD ARRANGEMENT



3. BLOCK DIAGRAMS

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



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





DSC-H50_L2







DSC-H50_L2

3-4E





FRAME

4-2. SCHEMATIC DIAGRAMS

Link	
CK-198 BOARD	FP-900 FLEXIBLE BOARD
(LCD CONNECTION)	(SY-ST CONNECTION)
CK-199 FLEXIBLE BOARD	FP-901 FLEXIBLE BOARD
(SY-CK CONNECTION)	(SY-SW CONNECTION)
JK-371 FLEXIBLE BOARD	SI-115 FLEXIBLE BOARD
(MULTI CONNECTOR)	(REMOTE CONTROL RECEIVER)
ST-194 BOARD	PB-052 FLEXIBLE BOARD
(FLASH DRIVE)	(PLAYBACK, SLIDESHOW SWITCH)
ST-195 FLEXIBLE BOARD	SW-532 BOARD
(FLASH UNIT)	(ZOOM SWITCH)
DC-111 FLEXIBLE BOARD	CONTROL SWITCH BLOCK
(BATTERY IN, DC IN)	(SW60350)
PL-051 BOARD (STROBE PLUNGER)	CONTROL SWITCH BLOCK
LE-042 FLEXIBLE BOARD (NIGHTSHOT, AF ILLUMINATOR)	
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 : μ $\mu F.$ 50 V or less are not indicated except for electrolytics and tantalums.
- Chip resistors are 1/10 W unless otherwise noted. $k\Omega$ =1000 Ω , M Ω =1000 $k\Omega$.
- 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

Kinds of capacitor | External dimensions (mm) Case size

- 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 \star 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
- $XEDIT \rightarrow \overline{EDIT} \qquad PB/XREC \rightarrow PB/\overline{REC}$
- Image: non flammable resistor
- control contro control control control control control control control control co
- _____: 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 M Ω 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.





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 \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

DSC-H50_L2

spécifie.

Ver. 1.1 2008.05

The changed portions from Ver. 1.0 are shown in blue.

4-2. SCHEMATIC DIAGRAMS

ENGLISH **JAPANESE**

For PTB-450:

J-6020-250-A

For PTB-1450:

J-6082-559-A

レンズ前面

書

BA

カメラ

ブラウン管の画像枠

カラーバーチャート

(JAPANESE)



Schematic diagrams of the CD-737 flexible board and SY201 board are not shown. Pages from 4-4 to 4-14 are not shown.













- Refer to page 4-2 (English), 4-3 (Japanese) for mark Δ .



FP-900, FP-901, SI-115, PB-052

ш ပ ш щ ∢ CONTROL SWITCH BLOCK (SW60350) CONTROL SWITCH BLOCK(SW60350) is replaced as block,) so that PRINTED WIRING BOARD is omitted. 4 ო S106 (WHEEL DIAL) 100⁻8 Bec-gnd 90000 9 S002 (FLASH) SW-532 cm02 of LEVEL2 of LEVEL2 SOOGNI F000N1 E000N1 8003 3300 2000NJ R002 2200 R006≪ 10K гироол 4 8003 (SELF-TIMER) N 4 8200 (SET) R001 2200 S001 R 004 47 00 S004 (MACR0) A в с Δ ш ш 08 в ပ ш ∢ ш PB-052 FLEXIBLE LND001-LND006 (of LEVEL2) S104 ł R101 8200 4 SW-532 BOARD ZOOM SWITCH XX MARK:NO MOUNT S103 MENU 6 REG_GND 5 REG_GND 4 REG_GND 3 NC 2 DIRECT_PB 1 KEY_AD1_LV.0 VDR005 XX 6₽ Þ CN103 CONTROL SWITCH BLOCK (SW60350) LND001-LND006 (PAGE 4-20) R105 4700 S 001 ო R104 3300 4 NC 5 REG_GND 1 J06_A 2 A_3.1V KEY_AD1 6 J0G_B CN102 6P S101 W_(Z00M) C108 R103 2200 1st C107 2200 ---N - 10 22g N XX №0004 VDR003 XX VDR003 XX VDR003 A_3.1V 6 22 CN101 8P DIRECT_PB 1 REG_GND 2 KEY_ZOOM 3 KEY_AD1 4 REG_GND 5 LND101 STATIC_GND LND102 STATIC_GND FP-901 FLEXIBLE LND050-LND057 (PAGE 4-19) -DSC-H50_L2 ۹ в ပ Ω ш ш 08

SW-532, CONTROL SWITCH BLOCK (SW60350)



4-3. PRINTED WIRING BOARDS

Link	
CK-198 BOARD	DC-111 FLEXIBLE BOARD
CK-199 FLEXIBLE BOARD	PL-051 BOARD
JK-371 FLEXIBLE BOARD	✓ PB-052 FLEXIBLE BOARD
ST-194 BOARD	SI-115 FLEXIBLE BOARD
ST-195 FLEXIBLE BOARD	SW-532 BOARD
• LE-042 FLEXIBLE BOARD	

• COMMON NOTE FOR PRINTED WIRING BOARDS

4-3. PRINTED WIRING BOARDS



Printed wiring boards of the CD-737 flexible board and SY-201 board are not shown. Pages from 4-23 to 4-25 are not shown.

CK-198 (2 layers), CK-199 (1 layer), JK-371 (2 layers)

4. Uses unleaded solder.







ST-194 (2 layers), ST-195 (1 layer), LE-042 (1 layer), DC-111 (1 layer)

4 : Uses unleaded solder.



=

08







PL-051 (2 layers), PB-052 (1 layer), SI-115 (2 layers), SW-532 (2 layers)

4 : Uses unleaded solder.









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 El	ECTRICAL PARTS LIST ACCESSORIES						
• CK-198 BOARD	• JK-371 FLEXIBLE BOARD	SI-115 FLEXIBLE BOARD D					
• CK-199 FLEXIBLE BOARD	✓ LE-042 FLEXIBLE BOARD	ST-194 BOARD					
• DC-111 FLEXIBLE BOARD	• PB-052 FLEXIBLE BOARD	ST-195 FLEXIBLE BOARD					
• FP-900 FLEXIBLE BOARD	• PL-051 BOARD	SW-532 BOARD					
• FP-901 FLEXIBLE BOARD							

5. REPAIR PARTS LIST

(ENGLISH)

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
- RESISTORS
 All resistors are in ohms.
 METAL: metal-film resistor
 METAL OXIDE: Metal Oxide-film resistor
 F: nonflammable
 SEMICONDUCTORS
- SEMICONDUCTORS
 In each case, u: μ, for example:

 uA...; μA..., uPA..., μPA...,
 uPB..., μPB..., μPC..., μPC...,
 uPD..., μPD...

(JAPANESE)

- 【使用上の注意】

 ここに記載されている部品は補修用部品であるため回路図及び セットに付いている部品と異なる場合があります。
- - は標準化部品のためなットに付いている部品と異なる場合があります。
- *印の部品は常備在庫しておりません。
- コンデンサの単位でu は μ を示します。
- 抵抗の単位Ωは省略してあります。
 金 被:金属被膜抵抗。
 サンキン:酸化金属被膜抵抗。
- ・インダクタの単位でu 雌 μ を示します。
- 半導体の名称でuuAP P 等はそれぞれ μ
- A μ P μ P μ P μ P μ P $ε_{\overline{\mu}}$ b $ε_{\overline{\mu}}$

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.

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

─ お願い───── 図面番号で部品を指定するときは基板名又はブロック を併せて指定してください。

▲印の部品,または▲印付の点線で囲まれた部品は, 安全性を維持するために,重要な部品です。 従って交換時は,必ず指定の部品を使用してください。

- 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



5-1-1. OVERALL SECTION

ns: not supplied



(See	page	5-6)
· ·		

Re	ef. No.	<u>Part No.</u>	<u>Description</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
	1	3-452-720-01	LID, MULTI (BLACK)	7	3-452-729-01	DRIVING, SY MECHANICAL (BLACK)
	1	3-452-720-11	LID, MULTI (SILVER)	7	3-452-729-11	DRIVING, SY MECHANICAL (SILVER)
	2	3-452-721-01	CABINET (R), SIDE (BLACK)			
	2	3-452-721-11	CABINET (R), SIDE (SILVER)	#2	2-635-562-31	SCREW (M1.7) (Black)
*	3	3-452-723-01	SPRING, MULTI LID CLICK	#10	2-599-475-31	SCREW (M1.7) (Silver)
				#23	3-080-204-11	SCREW, TAPPING, P2 (Black)
	4	A-1519-825-A	JK-371 FLEXIBLE BOARD, COMPLETE	#76	2-666-551-11	SCREW, TAPPING, P2 (Silver)
	5	3-080-272-01	TAPE (A)			
*	6	3-452-722-01	PLATE, MULTI FIXED			

5. REPAIR PARTS LIST

DISASSEMBLY

HARDWARE LIST

5-1-2. FRONT PANEL SECTION-1



56	A-1539-809-A	CCD BLOCK ASSY (including CD-737 flexible
		complete board and CCD imager (IC001).) (Note)
57	3-452-725-01	FRAME, SY
58	3-452-724-01	HOLDER, SP

1-825-945-51 LOUDSPEAKER (1.3CM)

SP901





5-1-4. FRONT PANEL SECTION-3

ns: not supplied



<u>Ref. No.</u>	<u>Part No.</u>	Description	<u>Ref. No.</u>	Part No.	Description
151	A-1519-827-A	SI-115 FLEXIBLE BOARD, COMPLETE	159	3-452-679-01	CABINET (UPPER (L)) (BLACK)
* 152	3-452-682-01	HOLDER, MICROPHONE	159	3-452-679-11	CABINET (UPPER (L)) (SILVER)
153	X-2190-268-1	CABINET (UPPER (R)) ASSY (BLACK)			
153	X-2190-269-1	CABINET (UPPER (R)) ASSY (SILVER)	160	1-479-699-31	SWITCH BLOCK, CONTROL (BLACK)
154	3-452-680-11	RING, LENS (SILVER)	160	1-479-699-41	SWITCH BLOCK, CONTROL (SILVER)
			161	A-1519-826-A	LE-042 FLEXIBLE BOARD, COMPLETE
154	3-452-680-21	RING, LENS (BLACK)	* 162	3-452-681-01	FRAME, TRIPOD
155	X-2190-264-1	CABINET (FRONT) ASSY (BLACK)	163	3-106-766-01	SCREW, TRIPOD
155	X-2190-265-1	CABINET (FRONT) ASSY (SILVER)			
156	X-2190-288-1	SERVICE, RELEASE BUTTON ASSY (BLACK)	MIC901	1-542-757-21	MICROPHONE UNIT
156	X-2190-289-1	SERVICE, RELEASE BUTTON ASSY (SILVER)			
			#2	2-635-562-31	SCREW (M1.7) (Black)
157	3-106-745-01	SPRING (350), RELEASE	#10	2-599-475-31	SCREW (M1.7) (Silver)
158	3-452-728-01	LID, DC (BLACK)	#75	2-666-551-01	SCREW, TAPPING, P2 (Silver)
158	3-452-728-11	LID, DC (SILVER)	#76	2-666-551-11	SCREW, TAPPING, P2 (Silver)
			#137	3-090-976-62	ACE, LOCK M1.7 (Black)

(Black)



5-1-5. CABINET (REAR) SECTION

ns: not supplied



<u>Ref. No.</u>	<u>Part No.</u>	Description	<u>Ref. No.</u>	<u>Part No.</u>	Description
* 201	3-452-694-01	RETAINER, FL	206	X-2190-271-1	CABINET (REAR) ASSY (470) (SILVER)
202	1-875-545-11	PB-052 FLEXIBLE BOARD	* 207	3-106-615-01	BRACKET (350), STRAP
203	1-875-750-11	FP-901 FLEXIBLE BOARD	* 208	3-452-689-01	SHEET METAL (L), STRAP
204	A-1519-821-A	SW-532 BOARD, COMPLETE			
205	1-480-173-31	SWITCH BLOCK, CONTROL (SW60350)	209	3-877-749-01	SHEET, FLEXIBLE ADHESIVE
		(BLACK)	* 210	3-452-690-01	SHEET METAL (R), STRAP
			211	X-2190-275-1	EYE CUP ASSY (470) (BLACK)
205	1-480-173-41	SWITCH BLOCK, CONTROL (SW60350)	211	X-2190-277-1	EYE CUP ASSY (470) (SILVER)
		(SILVER)			
206	X-2190-270-1	CABINET (REAR) ASSY (470) (BLACK)	#5	3-080-204-01	SCREW, TAPPING, P2 (Black)
			#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. LCD SECTION





Note:

<u>Ref. No.</u>

252

253

253

254

254

255

256

256

257

258

3-452-580-01 COVER (C), HINGE (BLACK)

* 251 6

#1

#14

2-635-562-11 SCREW (M1.7) (Black)

2-599-475-11 SCREW (M1.7) (Silver)

Electrical parts list of the CD-737 flexible board is not shown. Page 5-8 is not shown.



5-2. ELECTRICAL PARTS LIST

R	ef. No.	Part No.	<u>Description</u>				<u>Ref. No.</u>	<u>Part No.</u>	Description	
		A-1519-818-A	CK-198 BOARD, C	OMPLETE					< JACK >	
							⊥∆ J001	1-817-331-11	DC JACK 5P (D	C IN)
			< CAPACITUR >						< LINE FILTER >	>
	C001 C002	1-165-908-11 1-165-908-11	CERAMIC CHIP CERAMIC CHIP	1uF 1uF	10% 10%	10V 10V	* LF001	1-457-217-21	COMMON MOD	E CHOKI
	C003	1-119-923-11	CERAMIC CHIP	0.047uF	10% 10%	10V				
	C004 C005	1-165-908-11	CERAMIC CHIP	1uF	10%	10V 10V				
	C006	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	R001 R002	1-218-953-11 1-218-935-11	RES-CHIP RES-CHIP	1K 33
	C007	1-165-908-11	CERAMIC CHIP	1uF 4 7uF	10% 10%	10V				
	C009	1-100-966-91	CERAMIC CHIP	10uF	20%	10V		1-875-749-11	FP-900 FLEXIBI	E BOAR
	C010	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	(There is	n't mounted electr	***************** ical parts in FP-90	******* 00 flexibl
	C011	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V				
	C012 C014	1-100-966-91	CERAMIC CHIP	0.1uF	20% 10%	10V 10V		1-875-750-11	FP-901 FLEXIBL	E BOAR
	C019	1-100-742-91	CERAMIC CHIP	2.2uF	20%	10V	(There is	a't mounted electr	**************************************	*******)1 flexihl
			< CONNECTOR >							
*	CN001	1-817-942-81	CONNECTOR, FPC	C (ZIF) 39P				A-1519-825-A	JK-371 FLEXIBL	E BOAR
*	CN002	1-816-959-51	FFC/FPC CONNEC	TOR (ZIF) 2	8P		(CN001 (MULTI CONNECTO	************** R) is not sunnlie	******* d hut th
			< COIL >				flexible co	omplete board.)		u, but in
	L001	1-400-588-11	INDUCTOR	10uH					< CONNECTOR	>
			< RESISTOR >				CN001	(Not supplied)	CONNECTOR, N	IULTIPLE
	R004	1-208-873-11	RES-CHIP	270	0.50%	1/16W			< LINE FILTER >	>
	R005	1-208-873-11	RES-CHIP	270	0.50%	1/1000	LF001	1-456-583-11	COMMON MOD	Е СНОКІ
		A-1519-823-A	CK-199 FLEXIBLE	BOARD, CO	OMPLETE	E			< VARISTOR >	
			*****	******	*****		* VDB00	13 1-802-279-11	VARISTOR (SM	D)
			< CONNECTOR >				* VDR00)4 1-802-279-11	VARISTOR (SM	D)
	CN002	1-778-596-21	CONNECTOR, BOA	ARD TO BO	ARD 30P			A 1510 996 A		
								A-1019-020-A	LE-U42 FLEAIDI	_E DUAN ******
		A-1519-824-A	DC-111 FLEXIBLE	BOARD, CO	OMPLETE				< DIODE >	
(E	H001, BT	001 and J001 ar	e not included in DO	C-111 flexib	le comple	ete board.)	D001	6-500-512-01		
			< BATTERY TERM	INAL BOAR	D >		* D001	6-501-861-01	DIODE CL-360	IS-TD4-X
Ą	BH001	1-780-456-11	TERMINAL BOAR	D, BATTERY	/					(AF ILLU
			< LITHIUM RECH	ARGEABLE	BATTERY	' >		СА	UTION	
Æ	BT001	1-756-711-11	LITHIUM RECHAP	GEABLE BA	ATTERY		Danger Replac	r of explosion if ba e only with the s	attery is incorrect ame or equivale	ly replacent type.
			< CAPACITOR >						注意	1.土 7 田 .
	C001	1-107-819-11	CERAMIC CHIP	0.022uF	10%	16V	電池の: ます。	父換は,止しく 電池を交換する	行わないと破裂 る場合には必ず	りる恐 同じ型1
	C002	1-107-819-11	CERAMIC CHIP	0.022uF	10%	16V	又は同	等品と交換して	ください。	
			< FERRITE BEAD :	>						
	FB001	1-469-580-21	INDUCTOR, FERR	ITE BEAD (1005)					

Part No. Description < JACK > 1-817-331-11 DC JACK 5P (DC IN) < LINE FILTER > 1-457-217-21 COMMON MODE CHOKE COIL < RESISTOR > 1-218-953-11 RES-CHIP 1/16W 1K 5% 1-218-935-11 RES-CHIP 33 5% 1/16W 1-875-749-11 FP-900 FLEXIBLE BOARD ***** mounted electrical parts in FP-900 flexible board.) 1-875-750-11 FP-901 FLEXIBLE BOARD ***** mounted electrical parts in FP-901 flexible board.) A-1519-825-A JK-371 FLEXIBLE BOARD, COMPLETE JLTI CONNECTOR) is not supplied, but this is included in JK-371 plete board.) < CONNECTOR > (Not supplied) CONNECTOR, MULTIPLE (SOCKET) < LINE FILTER > 1-456-583-11 COMMON MODE CHOKE COIL < VARISTOR > 1-802-279-11 VARISTOR (SMD) 1-802-279-11 VARISTOR (SMD) A-1519-826-A LE-042 FLEXIBLE BOARD, COMPLETE ***** < DIODE > 6-500-512-01 DIODE CL-330IRS-X-TU (NIGHTSHOT) 6-501-861-01 DIODE CL-360S-TD4-X-TL (AF ILLUMINATOR/SELF-TIMER) CAUTION explosion if battery is incorrectly replaced.

注意 換は,正しく行わないと破裂する恐れがあり 池を交換する場合には必ず同じ型名の電池 品と交換してください。

• Refer to page 5-1 for mark A.

Ref. No. Part No. Description SW-532 Ref. No. Part No. Description SUP-052 FLEXIBLE BOARD SUP-052 FLEXIBLE FLEXIBLE BOARD SUP-052 FLEXIBLE FLEXIBLE BOARD SUP-052 FLEXIBLE FLEXIBA
Ref. No.Part No.DescriptionSec.iption1-875-545-11PB-052 FLEXIBLE BOARD ************************************
(S001 and S002 are not supplied, but there are included in PB-052 flexible board.)
< SWITCH > < 0000 0100 0100 0100 0100 0100 010000 01000 01000 01000 01000 01000 010000 010000 01000 01000 010000 010000 010000 01000 01000 01000 01000 01000 01000 01000 01000 01000 01000 01000 01000 01000 01000 01000 010000 01000000
S001 S002 (not supplied) SWITCH (PLAYBACK) S002 SWITCH (PLAYBACK) SWITCH (SLIDESHOW) A-1519-819-A (RY301 is not included in PL-051 BOARD, COMPLETE ***********************************
A-1519-819-A PL-051 BOARD, COMPLETE ***********************************
A-1519-819-A PL-051 BOARD, COMPLETE ***********************************
(RY301 is not included in PL-051 complete board.) <
C301 1-165-908-11 CERAMIC CHIP 1 uF 10% 10V
C301 1-165-908-11 CERAMIC CHIP 1uF 10% 10V Q202 6-551-304-01 TRANSISTOR MTM231230LSO C000000000000000000000000000000000000
* CN301 1-817-554-51 CONNECTOR, FFC/FPC 6P < DIODE > R203 1-218-989-11 RES-CHIP 1M 5% 1/16W * D301 6-501-947-01 DIODE MA2S1110G8S0 R204 1-218-940-11 RES-CHIP 82 5% 1/16W * D301 6-501-947-01 DIODE MA2S1110G8S0 R208 1-218-977-11 RES-CHIP 100K 5% 1/16W < SWITCH > SWITCH, PUSH (1KEY) T201 1-445-108-21 TRANSFORMER, D.C-D.C CONVERTER PLUNGER SOLENOID > A-1519-828-A ST-195 FLEXIBLE BOARD, COMPLETE
NORT CONTOCTION, FROM CONT NORT CONTOCTION, FROM CONTOCTION, FROM CONTENT NORT CONTOCTION, FROM CONTOCTION, FROM CONTENT NORT CONTOCTION, FROM CONTOCTION, FROM CONTENT NORT CONTOCTION, FROM CONTENT
* D301 6-501-947-01 DIODE MA2S1110G8S0 < SWITCH > S301 1-786-179-31 SWITCH, PUSH (1KEY) < PLUNGER SOLENOID >
S301 0.501-947-01 DODE MA2311100050 171000 171000 171000 < SWITCH > 711 ME301111 METAL CHIP 10K 0.5% 1/16W S301 1-786-179-31 SWITCH, PUSH (1KEY) 1/16W 1/16W <t< td=""></t<>
S301 1-786-179-31 SWITCH, PUSH (1KEY) (STOROBE POPUP DETECT)
<pre></pre>
< PLUNGER SOLENOID > A-1519-828-A ST-195 FLEXIBLE BOARD, COMPLETE
A-1319-020-A -31-1331 ELXIDEE DOALD, GOINFELTE
* KY301 1-455-056-11 SOLENOID, PLUNGER (STROBE OPEN)

< CAPACITOR >
C001 1-165-908-11 CERAMIC CHIP 1uF 10% 10V
< 10 >
IC001 6-600-163-01 IC RS-770
< SWITCH >
* S002 1-786-914-31 SWITCH, TACTILE (FINDER/LCD)
A-1519-620-A 31-194 DUARD, COMPLETE ***********************************
C201 1-100-611-91 CERAMIC CHIP 22uF 20% 6.3V C202 1-100-611-91 CERAMIC CHIP 22uF 20% 6.3V C202 1-112-717-11 CERAMIC CHIP 10% 10V C202 1-112-717-11 CERAMIC CHIP 10% 10V
△ C205 1-112-717-91 CERAMIC CHIP 107 0.5V < CONNECTOR > △ C205 1-114-341-21 CAP, ALUMINUM ELECT 180µF 99% 315V C207 1 164 022 11 CERAMIC CHIP 200PE 109/ 50V * CN101 1 216 624 51 CONNECTOR EEC/EDC (7E) 20
C207 1-104-333-11 CERAMIC CHIP 220FF 10% 50V * CN101 1-010-004-51 CONNECTOR, FF0/FPC (2IF) 8P * CN102 1-816-659-51 FFC/FPC CONNECTOR (LIF) 6P C208 1-125-777-11 CERAMIC CHIP 0.1uF 10% 10V * CN103 1-816-659-51 FFC/FPC CONNECTOR (LIF) 6P
< CONNECTOR > < RESISTOR >
* CN201 1-816-646-51 FFC/CONNECTOR, FPC (LIF) 16P R101 1-218-964-11 RES-CHIP 8.2K 5% 1/16W

• Refer to page 5-1 for mark \triangle .

SW-532

<u>Ref. No.</u>	<u>Part No.</u>	Description			
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	1-798-136-11	SWITCH, TACTILE (W/ZOOM)
* S102	1-798-136-11	SWITCH, TACTILE (T/ZOOM)

- 1-786-914-31 SWITCH, TACTILE (MENU) 1-786-914-31 SWITCH, TACTILE (MENU) 1-786-914-31 SWITCH, TACTILE (HOME) * S103 * S104

< VARISTOR >

- * VDR001 1-802-279-11 VARISTOR (SMD) * VDR002 1-802-279-11 VARISTOR (SMD)

Electrical parts list of the SY-201 board is not shown. Pages 5-12 to 5-16 are not shown.
Checking supplied accessories.



• Refer to page 5-1 for mark A.

HARDWARE LIST (1/7)



HARDWARE LIST (2/7)



HARDWARE LIST (3/7)



HARDWARE LIST (4/7)



HARDWARE LIST (5/7)



HARDWARE LIST (6/7)



HARDWARE LIST (7/7)



DSC-H50 RMT-DSC2

SONY: SERVICE MANUAL

Ver. 1.2 2008. 09

LEVEL 2

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



File this supplement with the service manual previously issued.

(DI08-234)

• Change of Repair Parts

2. DISASSEMBLY 2-2. DISASSEMBLY

Correct Changed portion.



5. REPAIR PARTS LIST 5-1. EXPLODED VIEWS

Correction : Changed portion.



-2-

Revision History

Ver.	Date	History	Contents	S.M. Rev. issued
1.0	2008.04	Official Release		
1.1	2008.05	Revised-1	Correction of Note for Schematic Diagrams	Yes
			Correction of EXPLODED VIEWS	
			Change of Service Classification	
			S. M. Revised: Page 4-3, 5-4, 5-17	
1.2	2008.09	Supplement-1 (DI08-234)	Change of Repair Parts	No
1.3	2009.06	Revised-2	Change of Accessories	Yes
		(A2 09-084)	S. M. Revised: Page 5-17	
1.4	2009.08	Revised-3	Correction of EXPLODED VIEWS	Yes
		(A3 09-171)	S.M. Revised: Page 5-7	

DSC-H50 RMT-DSC2

SERVICE MANUAL



Internal memory ON BOARD

Revised-1

Replace the previously issued SERVICE MANUAL 9-852-286-12 with this Manual.



Photo: Black

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

LEVEL 3

• SERVICE NOTE	PRINTED WIRING BOARDS	• REPAIR PARTS LIST		
SCHEMATIC DIAGRAMS				

The components identified by mark \triangle or dotted line with	Les composants identifiés par une marque Λ sont critiques pour la
mark \triangle are critical for safety.	sécurité.
Replace only with part num-	Ne les remplacer que par une pièce
ber specified.	portant le numéro spécifié.

DIGITAL STILL CAMERA



Sony EMCS Co.

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 IDENTIFÉS PAR UNE MARQUE A 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.

- 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 leadfree 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.)

IF : 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

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-201 board, erase the data in internal memory of the board before replacement. **Note 2:** When replacing the SY-201 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 \blacktriangle/∇ on the control button, then press \bullet .
 - 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.

Message 🗙		
Write Enable Setting Complete		
OK.		

- 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 - 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。)

Ыt :S 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。

Ыt:S 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 - 内蔵メモリヘデータを書き戻す方法

通常は、**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 (W)を使用します。

書き戻し方法

1)カメラと Eマスストレージ 接続し、ドライバを"S "に切り替える。

2)書き込み許可ツールとS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。

Message 🔀
Write Enable Setting Complete
ОК

5)ドライバを元に戻して、カメラと使マスストレージ接続する。

6)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1の接続を解除し、カメラの電源を0にする。

注意:カメラの電源を低することにより、書き込み許可の設定が解除されます。

4-2. SCHEMATIC DIAGRAMS

Link

CD-737 FLEXIBLE BOARD	SY-201 BOARD(6/10)
(CCD IMAGER)	(CCD SIGNAL PROCESS)
SY-201 BOARD(1/10)	SY-201 BOARD(7/10)
(DC/DC CONVERTER)	(LENS DRIVE)
SY-201 BOARD(2/10)	SY-201 BOARD(8/10)
(BATTERY DETECTOR, CLOCK GENERATOR)	(OIS DRIVE)
SY-201 BOARD(3/10) (CPU, CAMERA DSP,	SY-201 BOARD(9/10)
AV SIGNAL PROCESS, LENS CONTROL, MODE CONTROL)	(AUDIO/VIDEO AMP)
SY-201 BOARD(4/10) (CPU, CAMERA DSP,	SY-201 BOARD(10/10)
AV SIGNAL PROCESS, LENS CONTROL, MODE CONTROL)	(CONNECTOR)
SY-201 BOARD(5/10) (CPU, CAMERA DSP, AV SIGNAL PROCESS, LENS CONTROL, MODE CONTROL)	

∽ COMMON NOTE FOR SCHEMATIC DIAGRAMS

JAPANESE

ENGLISH

4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

4-2. SCHEMATIC DIAGRAMS

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

(For schematic diagrams)

- All capacitors are in μF unless otherwise noted. pF : μ $\mu F.$ 50 V or less are not indicated except for electrolytics and tantalums.
- Chip resistors are 1/10 W unless otherwise noted. $k\Omega$ =1000 Ω , M Ω =1000 k Ω .
- 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

TA A		252
TT		
	- · ·	. · ·

Kinds of capacitor | External dimensions (mm) Case size

- 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 \star 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
 - $XEDIT \rightarrow \overline{EDIT}$ PB/XREC \rightarrow PB/REC
- + tusible resistor
- _____: panel designation
- _____: B+ Line
- **— —** : B– Line
- in/OUT direction of (+,-) B LINE.
- contract 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 M Ω 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.





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 \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

Ne les remplacer que par une plece portant le numero spécifie.

DSC-H50_L3

Ver. 1.1 2008.05

The changed portions from Ver. 1.0 are shown in blue.

4-2. SCHEMATIC DIAGRAMS

ENGLISH JAPANESE

(JAPANESE)





2 図a 及び図b の波形が得られるように画枠調整して下さい。





CD-737

4-4

DSC-H50_L3



- Refer to page 4-2 (English), 4-3 (Japanese) for mark ${\ensuremath{\Delta}}.$

4-5

SY-201 (1/10)





SY-201 (3/10)

4-7

DSC-H50_L3



SY-201 (4/10)

DSC-H50_L3



SY-201 (5/10)

DSC-H50_L3



SY-201 (6/10)



SY-201 (7/10)



SY-201 (8/10)





SY-201 (10/10)

4-14

DSC-H50_L3

4-3. PRINTED WIRING BOARDS

Link				
CD-737 FLEXIBLE BOARD	SY-201 BOARD (SIDE B)			
• SY-201 BOARD (SIDE A)				

4-3. PRINTED WIRING BOARDS





4 : Uses unleaded solder.

SY-201 BOARD (SIDE A)



SY-201 (8 layers)

SY-201 BOARD (SIDE B)


(ENGLISH)

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 ٠ 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: uF
- 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: $uA...:\mu A...,uPA...,\mu PA...,$ uPB..., µPB..., µPC..., µPC..., uPD..., μPD...

(JAPANESE)

- 【使用上の注意】 ここに記載されている部品は補修用部品であるため、回路図及び セットに付いている部品と異なる場合があります。
- は標準化部品のため、セットに付いている部品と異なる場合 があります。
- *印の部品は常備在庫しておりません。
- コンデンサの単位でu ほ μ Fを示します。
- 抵抗の単位Ωは省略してあります。 被:金属被膜抵抗。 숲
- サンキン:酸化金属被膜抵抗。 インダクタの単位でμはμ度示します。
- 半導体の名称でuA
- D.等はそれぞれ µ . μP ΑμΡ μP μ Pを示します。
- Abbreviation
 - AR : Argentine model AUS : Australian model
 - BR : Brazilian model
 - CH : Chinese model
 - CND : Canadian model
 - EE : East European model
 - HK : Hong Kong model
 - T : 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 A or dotted line with mark \triangle 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

お願い 図面番号で部品を指定するときは基板名又はブロック を併せて指定してください。

▲印の部品、または▲印付の点線で囲まれた部品は、 安全性を維持するために、重要な部品です。 従って交換時は,必ず指定の部品を使用してください。

CD-737

5-2. ELECTRICAL PARTS LIST

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
	A-1539-809-A	CCD BLOCK ASSY
	(not supplied)	CD-737 FLEXIBLE BOARD

(IC001 (CCD imager) and CD-737 flexible complete board are not supplied, but there are included in CCD block assy.)

< CAPACITOR >

*	C005	1-114-582-11	CERAMIC CHIP	0.1uF	10%	16V
*	C006	1-114-582-11	CERAMIC CHIP	0.1uF	10%	16V
*	C007	1-114-582-11	CERAMIC CHIP	0.1uF	10%	16V
*	C008	1-114-582-11	CERAMIC CHIP	0.1uF	10%	16V
*	C009	1-114-582-11	CERAMIC CHIP	0.1uF	10%	16V

< IC >

IC001 (Not supplied) ICX665LQP-13 (IC001 is supplied including in CCD BLOCK ASSY.)

Note: イメージャの交換時は4 - ページの"イメージャ交換時の注意"を必ずお読みください。

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

<u>Ref. No.</u>	<u>Part No.</u>	Description				Ref. No.	<u>Part No.</u>	Description			
	A-1519-829-A	SY-201 BOARD, C	OMPLETE	SERVICE	Ξ)	C209	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
(IC211 is no	nt supplied but thi	**************************************	:********** 201 comnlet	• hoard (S	* SERVICE))	C211	1-125-777-11	CERAMIC CHIP	0.1uF 0.1uF	10% 10%	10V 10V
(1021113110	n supplied, but th				, , , , , , , , , , , , , , , , , , , ,	0210	1 120 111 11	OLIVANIO OLIV	0.101	1070	100
		< CAPACITOR >				C214	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
0001	1 110 717 01		4E	100/	0.01/	C215	1-100-252-11	CERAMIC CHIP	0.1uF	10%	6.3V
C001	1-112-/1/-91		1UF 4 705	10%	6.3V	0217	1-125-777-11		0.10F	10%	100
* 0002 C003	1-112-740-11		4./UF	10%	0.3V 50V	0218	1-100-202-11			10%	0.30
C003	1-165-989-11		10.00101 100F	10%	6.3V	0220	1-125-111-11	OLNAMIO OIIIF	0.101	10 /0	100
C004	1-165-908-11	CERAMIC CHIP	1001 10F	10%	10V	C221	1-125-777-11	CERAMIC CHIP	0 1uF	10%	10V
0000	1 100 000 11	olin and official	i ui	1070	101	C222	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C007	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V	C223	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
* C008	1-112-662-91	TANTAL. CHIP	47uF	20%	10V	C224	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C009	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	C225	1-164-933-11	CERAMIC CHIP	220PF	10%	50V
C010	1-164-852-11	CERAMIC CHIP	12PF	5%	50V						
C011	1-164-852-11	CERAMIC CHIP	12PF	5%	50V	C228	1-100-252-11	CERAMIC CHIP	0.1uF	10%	6.3V
0010	4 407 000 44		47 5	4.00/	4.017	C235	1-100-246-11	CERAMIC CHIP	0.001uF	10%	50V
0013	1-127-820-11		4./UF	10%	16V	0241	1-100-252-11		0.10F	10%	6.3V
C016				10%	25V 6 2V	0242	1 125-777 11			10%	100
C010	1-103-909-11		1001 1 70E	10%	16\/	0243	1-125-111-11	OLINAIMIO UNIF	0.101	10 /0	100
C018	1-164-933-11	CERAMIC CHIP	220PF	10%	50V	C244	1-100-252-11	CERAMIC CHIP	0 1uF	10%	6.3V
0010		olin and official	LLOII	1070	001	C245	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C019	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	C246	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V
* C020	1-112-746-11	CERAMIC CHIP	4.7uF	10%	6.3V	C247	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V
C021	1-100-581-81	CERAMIC CHIP	0.0047uF	10%	50V	C249	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V
C022	1-165-908-11	CERAMIC CHIP	1uF	10%	10V						
C023	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V	C251	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
0004	1 105 000 11		10	100/	C 01/	C252	1-100-252-11	CERAMIC CHIP	0.1uF	10%	6.3V
C025	1-105-989-11			10%	0.3V	0254	1 100 252-11			10%	6.3V
C025	1-100-611-01		4./UF 2211E	20% 20%	20V 6 3V	0250	1-100-252-11		0.10F	10%	6 3V
C020	1-100-671-11	CERAMIC CHIP	22ui 4.7iiF	20%	0.3V 25V	0237	1-100-252-11	OLINAIMIO UNIF	0.101	10 /0	0.5 V
C029	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V	C262	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
0010		02.1.1.1.00 0.1.1.		2070	0.01	C263	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
* C031	1-112-746-11	CERAMIC CHIP	4.7uF	10%	6.3V	C268	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C034	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V	C269	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C035	1-164-874-11	CERAMIC CHIP	100PF	5%	50V	C270	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C038	1-164-874-11	CERAMIC CHIP	100PF	5%	50V						
C040	1-164-933-11	CERAMIC CHIP	220PF	10%	50V	C281	1-125-777-11	CERAMIC CHIP	0.1uF	10%	100
C0/1	1 164 022 11		220DE	100/	501/	0282	1-125-777-11			10%	10V
* C0/12	1-104-933-11		220FF // 7µF	10%	50V 6 3V	C285	1-100-202-11		0.1uF 0.1uF	10%	10.31
C044	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V	C286	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C046	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V	0200	1 120 111 11	olin and only	0.141	1070	101
C047	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V	C288	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V
						* C302	1-114-582-11	CERAMIC CHIP	0.1uF	10%	16V
C050	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V	C303	1-104-760-11	CERAMIC CHIP	0.047uF	10%	50V
* C051	1-112-746-11	CERAMIC CHIP	4.7uF	10%	6.3V	C304	1-100-591-91	CERAMIC CHIP	1uF	10%	25V
C053	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V	C309	1-112-717-91	CERAMIC CHIP	1uF	10%	6.3V
C054	1-100-611-91		22uF	20%	6.3V	* 0001	1 114 500 11		0.1	100/	101/
0057	1-165-908-11	CERAMIC CHIP	1UF	10%	100	* 0321	1-114-582-11		0.1UF	10%	16V
C058	1-100-567-81		0.01uE	10%	25\/	C325	1-100-011-91		220F 0.10F	20 %	10.31
C059	1-125-889-11	CERAMIC CHIP	2 2µF	10%	10V	C326	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C060	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	C333	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
C061	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V						
C064	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C336	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
						C345	1-100-966-91	CERAMIC CHIP	10uF	20%	10V
C066	1-100-611-91	CERAMIC CHIP	22uF	20%	6.3V	* C356	1-112-298-91	CERAMIC CHIP	1uF	10%	16V
* C202	1-112-746-11	CERAMIC CHIP	4.7uF	10%	6.3V	C358	1-100-539-91	TANTAL. CHIP	47uF	20%	6.3V
0203	1-125-///-11		U.1u⊦ 0.1⊑	10%	10V	0359	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
0204 C205	1-120-///-11		U.IUF 1uE	10%	107	0264	1-100 567 01		0.01.05	100/	251
0200	1-112-717-91		IUF	1070	0.37	0304	1-100-007-01 1-100-567-91		0.01uF ∩ ∩1uF	10% 10%	23V 25\/
C206	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C366	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C208	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C367	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>				<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			
* C368	1-114-582-11	CERAMIC CHIP	0.1uF	10%	16V	C609	1-112-717-91	CERAMIC CHIP	1uF	10%	6.3V
						C610	1-107-819-11	CERAMIC CHIP	0.022uF	10%	16V
C371	1-100-670-11	CERAMIC CHIP	4.7uF	20%	16V	C611	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C376	1-100-966-91	CERAMIC CHIP	10uF	20%	10V	C612	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C381	1-112-717-91	CERAMIC CHIP	1uF	10%	6.3V	C613	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C385	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V			0210.0000000	010101		201
* C386	1-112-746-11	CERAMIC CHIP	4 7uF	10%	6.3V	C614	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
0000	1 112 / 10 11	OLIWANIO OLIM	1.7 01	10/0	0.01	C615	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V
C387	1-195-777-11		0 1uE	10%	101/	C616	1_165_080_11		10uF	10%	631/
0007	1-125-777-11		0.1uF	10%	101/	C617	1_100_/15_01		0 /17uE	10%	6.3V
0303	1-125-777-11		0.10	10%	101/	C618	1-165-080-11		10.47 ui 10.1E	10%	6.3V
* C301	1-12/0-777-11		0.10	10%	161/	0010	1-105-505-11		Tour	10 /0	0.5 V
0005	1 100 611 01		0.101 2011E	200/	621/	0610	1 165 009 11		1E	100/	101/
0393	1-100-011-91	OLINAIMIC OTHE	2201	20 /0	0.57	C620	1-165-080-11		100E	10%	6.21/
C207	1-100-670-11		1 7uE	20%	16\/	0020	1-110-303-11		1.1E	10%	6.31
* 0000	1 11/ 500 11		4./ui	100/	161/	0705	1 100 567 91			10/0	0.5 V
* 0390	1-114-002-11		0.1uF	10%	161	0703	1 165 090 11		0.01UF	10%	201
* 0399	1-114-002-11		0.1UF	10%	101	0/0/	1-100-909-11	GENAIVIIG GHIP	TOUF	10%	0.3V
0401	1-100-663-11	IANTAL. UHIP		20%		0700	4 400 044 04		00 F	000/	4.014
6402	1-125-777-11	CERAMIC CHIP	0.1uF	10%	100	0708	1-100-844-91	TANTAL CHIP	2201	20%	100
0.400			0 4 F	100/	1011	6715	1-100-786-91	TANTAL, CHIP	22uF	20%	6.3V
C403	1-125-777-11	CERAMIC CHIP	0.1uF	10%	100						
C407	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V			< CONNECTOR >			
C503	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V						
C504	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	* CN301	1-821-500-11	CONNECTOR, FP	C (ZIF) 45P		
C505	1-128-694-11	TANTAL. CHIP	22uF	20%	10V	* CN401	1-817-357-71	CONNECTOR, FP	C (ZIF) 61P		
						* CN701	1-816-655-51	FFC/CONNECTOF	R, FPC (LIF)	8P	
C506	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	* CN702	1-816-644-51	FFC/CONNECTOF	R, FPC (LIF)	12P	
C507	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	* CN703	1-816-649-51	FFC/CONNECTOF	R, FPC (LIF)	22P	
C508	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V						
C509	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V	* CN704	1-816-654-51	FFC/CONNECTOF	R, FPC (LIF)	6P	
C510	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V	CN705	1-778-506-21	PIN, CONNECTO	r (PC BOAF	RD) 2P	
						* CN706	1-816-654-51	FFC/CONNECTOF	R, FPC (LIF)	6P	
C511	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V	* CN707	1-818-818-81	CONNECTOR, FP	C (ZIF) 29P		
C512	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	* CN708	1-816-646-51	FFC/CONNECTOF	R, FPC (LIF)	16P	
C513	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V				,		
C514	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V	* CN709	1-821-401-21	CONNECTOR, BC	ARD TO BC	ARD 30P	
C516	1-100-567-81	CERAMIC CHIP	0.01uF	10%	25V	CN710	1-794-375-11	PIN, CONNECTO	R 2P		
						* CN711	1-816-654-51	FFC/CONNECTOF	R. FPC (LIF)	6P	
C522	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	* CN712	1-816-648-51	FFC/FPC CONNEC	TOR (LIF)	20P	
C527	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V	* CN713	1-819-990-21	MEMORY STICK	DUO CONN	ECTOR 1	0P
C528	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V						
C530	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V			< DIODE >			
C531	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V						
0001	1 110 020 11	olin and only	0.0 17 01	1070		D001	6-500-813-01	DIODE MA2SD3	200850		
0532	1-119-923-11	CERAMIC CHIP	0 047uF	10%	10V	D002	6-500-813-01		200850		
0002	1-110-023-11	CERAMIC CHIP	0.017uF	10%	101/	* D002	6-501-961-01		060850		
0000	1-125-777-11	CERAMIC CHIP	0.01/1/UF	10%	101/	D004	6-500-813-01		200850		
0504	1-125-777-11	CERAMIC CHIP	0.1uF	10%	101/	* 0006	6-502-136-01		200000		
C536	1-125-777-11		0.1uF	10%	101/	0000	0 302 100 01	DIODE MIAZZOU	200200		
0000	1-125-111-11		0.101	1070	100	007	6-500-813-01		028002		
0527	1 105 777 11		0.1.15	100/	101/	0007	6 500 912 01		200000		
0537	1 165 090 11		0.TUF 10E	10/0	6 21/	D000	0-000-010-01 6 500 912 01		200030		
0547	1 105 777 11			10/0	101/	D009	6 500 912 01		200030		
0552	1 105 777 11		0.105	10/0	101	D010	0-000-010-01 6 500 912 01		200030		
0553	1-120-777-11		0.105	10%	101	DUIT	0-000-010-01	DIUDE MA25D3	200850		
6554	1-120-777-11	CERAIVIIC CHIP	0.1UF	10%	100	* D001	0 501 105 01				
* 0555	1 110 740 44		4 7.5	100/	C 0\/				01 (1L3SUI	vi)	
* U000	1-112-/46-11	CERAIVILU CHIP	4./UF	10%	6.3V	D301	o-/19-069-28	DIDUE 155400	100000		
* U558	1-112-/46-11		4./UF	10%	0.3V						2)
0559	1-114-411-21	UERAMIC CHIP	0.3301	10%	0.3V	D/05	o-/19-0//-09	DIODE CL-196F	ік-UD-1 (M	5 AUCES	5)
0560	1-114-411-21	CERAMIC CHIP	0.33uF	10%	6.3V	D/06	6-500-813-01	DIODE MA2SD3	2008S0		
C603	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V			FUCE			
		0FB			10.1			< FUSE >			
C604	1-165-908-11	CERAMIC CHIP	1uF	10%	10V						
C605	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	A F001	1-5/6-612-21	FUSE (1A/32V)			
C606	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	▲ F002	1-5/6-415-11	FUSE (2A/32V)			
C607	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	▲ F003	1-576-842-11	FUSE (0.63A/32V	')		
C608	1-165-908-11	CERAMIC CHIP	1uF	10%	10V						

• Refer to page 5-1 for mark \triangle .

R	ef. No.	<u>Part No.</u>	Description		<u>Ref. No.</u>	<u>Part No.</u>	Description			
			< FERRITE BEAD :	>	L602	1-400-588-11	INDUCTOR	10uH		
	FB002	1-469-580-21	INDUCTOR, FERR	ITE BEAD (1005)	L702	1-400-588-11	INDUCTOR	10uH		
	FB003	1-469-580-21	INDUCTOR, FERR	ITE BEAD (1005)			< TRANSISTOR >			
	FB004 FB005	1-469-580-21	INDUCTOR, FERR	ITE BEAD (1005)	Q001	6-551-346-01	TRANSISTOR	LSK3541F	S8T2L	
	FB006	1-469-580-21	INDUCTOR, FERR	ITE BEAD (1005)	Q002	6-550-844-01	TRANSISTOR	FDW2508F	P/GNL	
	FB215	1-469-580-21	INDUCTOR, FERR	ITE BEAD (1005)	Q003 Q005	6-551-202-01	TRANSISTOR	LM6K1FS8	TL-E-S	
*	FB250	1-481-250-11	INDUCTOR, FERR	ITE BEAD (1005)	* Q301	6-551-868-01	TRANSISTOR	UP04213G	08S0	
*	FB251 FB252	1-481-250-11	INDUCTOR, FERR	ITE BEAD (1005) ITE BEAD (1005)	Q302	6-550-119-01	TRANSISTOR	DTC144EN	1FS6T2L	
*	FB253	1-481-250-11	INDUCTOR, FERR	ITE BEAD (1005)	Q303	6-550-791-01	TRANSISTOR	SSM3J15F	V (TL3SO	ONYZ)
*	FB254	1-481-250-11	INDUCTOR, FERR	ITE BEAD (1005)	Q305 Q401	6-551-202-01 8-729-054-51	TRANSISTOR	UP041160	08S0	
*	FB255	1-481-250-11	INDUCTOR, FERR	ITE BEAD (1005)	Q402	6-551-304-01	TRANSISTOR	MTM23123	30LSO	
*	FB256 FB257	1-481-250-11 1-481-250-11	INDUCTOR, FERR	ITE BEAD (1005) ITE BEAD (1005)	* 0403	6-551-852-01	TRANSISTOR	LIP04313G	0850	
	FB258	1-481-250-11	INDUCTOR, FERR	ITE BEAD (1005)	* Q708	6-551-877-01	TRANSISTOR	2SC6054G	R8S0	
	FB281	1-469-081-21	INDUCTOR FERR	ITE BEAD (1005)			< RESISTOR >			
	FB282	1-469-580-21	INDUCTOR, FERR	ITE BEAD (1005)						
	FB283	1-469-580-21	INDUCTOR, FERR	ITE BEAD (1005)	R001	1-218-985-11	RES-CHIP	470K 1M	5% 5%	1/16W
	FB303	1-400-331-11	FERRITE, EMI (SN	MD) (1005)	R004	1-218-985-11	RES-CHIP	470K	5%	1/16W
					R005	1-218-949-11	RES-CHIP	470	5%	1/16W
	FB309	1-400-331-11	FERRITE, EMI (SN	MD) (1005) MD) (1005)	R008	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
	10010	1 400 001 11		MD) (1000)	R009	1-218-971-11	RES-CHIP	33K	5%	1/16W
			< IC >		R013	1-218-989-11	RES-CHIP	1M	5%	1/16W
					R015	1-208-947-11	RES-CHIP	330K	0.50%	1/16W
*	IC001	6-712-285-01	IC SC901572AV0	OR2	R016	1-245-604-11	METAL CHIP	10M	5%	1/16W
*	IC002	6-/10-846-01 6-807-572-01	IC IK/0664HCL-	-G -C-402-2N1-E2-Δ	R024	1-218-989-11	RES-CHIP	1M	5%	1/16W
*	IC202	6-710-919-01	IC ICS620AN-29	LFT	R025	1-218-973-11	RES-CHIP	47K	5%	1/16W
	IC211	(Not supplied)	IC PRX515103B		R029	1-208-635-11	METAL CHIP	10	0.5%	1/16W
(1	C211 is sı	pplied including	in SY-201 complet	te board (service).)	R031	1-218-953-11	RES-CHIP	1K	5%	1/16W
					R032	1-218-953-11	RES-CHIP	1K	5%	1/16W
*	IC304	6-710-767-01	IC AD80148BBC	ZRL	R035	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
*	10300	0-708-402-01 8-753-207-80		- I R-FA _TQ	B0/0	1-208-035-11	ΜΕΤΔΙ CHIP	1006	0.5%	1/16W
*	IC401	6-708-988-01	IC 1V80531 G-TI	M-F	R040	1-218-981-91	RES-CHIP	220K	0.3 % 5%	1/16W
*	IC503	6-709-026-01	IC R2J30500LG		R064	1-218-939-11	RES-CHIP	68	5%	1/16W
					R080	1-218-929-11	RES-CHIP	10	5%	1/16W
*	IC506	8-753-284-38	IC CXA3739AER	-T2	R207	1-218-935-11	RES-CHIP	33	5%	1/16W
*	IC507	6-708-444-01	IC R1114Q281D	-TR-FA	D010	1 010 005 11		00	F 0/	1/1011
	10602	6 707 226 01		-51K	R210	1-218-935-11		33	5% 5%	1/16W
*	10003	6-708-444-01	IC B11140281D	JEZ -TR-FA	R213	1-218-953-11	RES-CHIP	1K	5%	1/16W
	10001	0 / 00 / 11 01			R215	1-218-941-11	RES-CHIP	100	5%	1/16W
*	IC701	6-708-464-01	IC R1114Q251D	-TR-FA	R216	1-220-180-11	RES-CHIP	620	5%	1/16W
			< COIL >		R217	1-218-938-11	RES-CHIP	56	5%	1/16W
					R222	1-218-940-11	RES-CHIP	82	5%	1/16W
*	L001	1-457-522-21	INDUCTOR	4.7uH	R223	1-218-953-11	RES-CHIP	1K	5%	1/16W
	L002	1-456-500-11	INDUCTOR	10uH	R224	1-218-953-11	RES-CHIP	1K	5%	1/16W
	L004	1-456-500-11	INDUCTOR	10uH	R225	1-218-953-11	RES-CHIP	1K	5%	1/16W
	L005	1-456-500-11		10uH	7000	1 010 050 11		11/	E0/	1/16W
	LUUD	1-400-076-11		ZZUN	R22/	1-210-903-11	RES-CHIP	1K	ວ% 5%	1/10W
	1008	1-456-500-11	INDUCTOR	10uH	R253	1-216-801-11	METAL CHIP	22	5%	1/10W
	L009	1-456-500-11	INDUCTOR	10uH	R254	1-216-801-11	METAL CHIP	22	5%	1/10W
	L010	1-456-499-11	INDUCTOR	4.7uH	R260	1-208-869-11	METAL CHIP	180	0.5%	1/16W
	L211	1-469-757-21	INDUCTOR	10uH						
*	L241	1-481-102-21	INDUCTOR	10uH	R261	1-208-663-11	METAL CHIP	150	0.5%	1/16W
	1300	1_400_217 21		100	R262	1-208-601-11		150	U.5% 0.5%	1/16W
	L302	1-400-317-21	INDUCTOR	100uH	R264	1-218-953-11	RES-CHIP	2.2r 1K	0.3 % 5%	1/16W

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<u>Ref. No.</u>	<u>Part No.</u>	Description				<u>Ref. No.</u>	Part No.	Description			
R266	1-208-691-11	METAL CHIP	2.2K	0.5%	1/16W	R509	1-208-721-11	METAL CHIP	39K	0.5%	1/16W
		-				R512	1-208-935-11	METAL CHIP	100K	0.5%	1/16W
R267	1-218-974-11	RES-CHIP	56K	5%	1/16W	B513	1-208-909-11	METAL CHIP	8 2K	0.5%	1/16W
R268	1_218_07/_11	RES_CHIP	56K	5%	1/16W	R51/	1_208_601_11	METAL CHIP	2.2K	0.0%	1/16W/
P260	1_208_606_11		3 64	0.5%	1/16W/	D515	1_208_011_11		101/	0.5%	1/16\//
N209	1-200-090-11		3.0K	0.5%	1/1000	515	1-200-911-11		TUK	0.5%	1/1000
R270	1-208-683-11	METAL CHIP	IK	0.5%	1/16W	5540			1001/	= 0 (
R271	1-208-683-11	METAL CHIP	1K	0.5%	1/16W	R516	1-218-9/7-11	RES-CHIP	100K	5%	1/16W
						R517	1-218-977-11	RES-CHIP	100K	5%	1/16W
R273	1-208-935-11	METAL CHIP	100K	0.5%	1/16W	R518	1-218-977-11	RES-CHIP	100K	5%	1/16W
R274	1-208-935-11	METAL CHIP	100K	0.5%	1/16W	R519	1-218-977-11	RES-CHIP	100K	5%	1/16W
R276	1-208-927-11	METAL CHIP	47K	0.5%	1/16W	R520	1-218-977-11	RES-CHIP	100K	5%	1/16W
R279	1-208-927-11	MFTAL CHIP	47K	0.5%	1/16W						
R280	1_208_0/3_11	METAL CHIP	220K	0.5%	1/16W	B521	1-918-077-11	RES-CHIP	1006	5%	1/16\//
11209	1-200-343-11		2201	0.5 /0	1/10/	D500	1 010 077 11		1001	J /0	1/1000
D004	1 000 040 11		0001/	0 50/	1/10/11	R022	1-210-9/7-11			070 50/	
R294	1-208-943-11	METAL CHIP	220K	0.5%	1/16W	R527	1-218-989-11	RES-CHIP	1M	5%	1/16W
R295	1-218-977-11	RES-CHIP	100K	5%	1/16W	R528	1-218-989-11	RES-CHIP	1M	5%	1/16W
R301	1-218-989-11	RES-CHIP	1M	5%	1/16W	R529	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
R302	1-218-977-11	RES-CHIP	100K	5%	1/16W						
R303	1-208-637-11	METAL CHIP	12	0.5%	1/16W	R534	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
				,	.,	B537	1-218-969-11	RES-CHIP	22K	5%	1/16W/
P304	1_220_802_11		2.2	5%	1/16W/	D528	1_218_060_11		2210	5%	1/16\/
D005	1-220-002-11		3.3	J /0	1/1000	n330	1-210-909-11			J /0	1/1000
R305	1-220-802-11	RES-CHIP	3.3	5%	1/16W	R539	1-218-969-11	RES-CHIP	22K	5%	1/16W
R306	1-220-802-11	RES-CHIP	3.3	5%	1/16W	R540	1-218-969-11	RES-CHIP	22K	5%	1/16W
R316	1-208-643-11	RES-CHIP	22	0.50%	1/16W						
R323	1-218-978-11	RES-CHIP	120K	5%	1/16W	R547	1-208-711-11	METAL CHIP	15K	0.5%	1/16W
						B548	1-208-711-11	MFTAL CHIP	15K	0.5%	1/16W
R327	1-218-053-11	RES-CHIP	11	5%	1/16W/	R601	1-218-020-11	RES-CHIP	10	5%	1/16W
020	1 010 000 11		0	J /0	1/1000	DE02	1 011 000 11		60	0 5 00/	1/10/
RJZÖ	1-218-990-11		0	F 0/	4 /4 00 04	R003	1-211-989-11		00	0.50%	
R336	1-218-984-11	RES-CHIP	390K	5%	1/16W	R604	1-218-951-11	RES-CHIP	680	5%	1/16W
R337	1-208-920-11	METAL CHIP	24K	0.5%	1/16W						
R338	1-218-941-81	RES-CHIP	100	5%	1/16W	R605	1-218-985-11	RES-CHIP	470K	5%	1/16W
						R607	1-218-955-11	RES-CHIP	1.5K	5%	1/16W
B339	1-218-977-11	RES-CHIP	100K	5%	1/16W	B608	1-218-959-11	RES-CHIP	3 3K	5%	1/16W
R3/13	1_218_000_11		0	0 /0	1/1011	R611	1_218_066_11	RES-CHIP	121	5%	1/16W/
D050	1 010 005 11		4701/	E0/	1/10/11	D750	1 010 005 11		121	5/0	1/1000
R359	1-218-985-11	RES-CHIP	470K	5%	1/1600	R/50	1-218-905-11	RES-CHIP	IUK	3 %	1/1000
R360	1-218-945-11	RES-CHIP	220	5%	1/16W						
R361	1-218-981-91	RES-CHIP	220K	5%	1/16W	R761	1-218-947-11	RES-CHIP	330	5%	1/16W
						R766	1-218-953-11	RES-CHIP	1K	5%	1/16W
R362	1-218-980-11	RES-CHIP	180K	5%	1/16W	R768	1-218-943-11	RES-CHIP	150	5%	1/16W
R363	1-218-977-11	RES-CHIP	100K	5%	1/16W	B769	1-218-943-11	RES-CHIP	150	5%	1/16W
R36/	1_218_081_01	RES-CHIP	220K	5%	1/16W	B770	1_218_0/3_11	RES-CHIP	150	5%	1/16W/
0000	1 010 005 11		2201	5/0	1/16W	1170	1-210-343-11	HLO-0HH	100	J /0	1/1000
R302	1-218-935-11	RES-UHIP	33	5% 50/	1/1000	0774	1 010 010 11		450	50/	4 /4 0144
R383	1-218-935-11	RES-CHIP	33	5%	1/16W	R//1	1-218-943-11	RES-CHIP	150	5%	1/16W
						R773	1-218-938-11	RES-CHIP	56	5%	1/16W
R384	1-218-935-11	RES-CHIP	33	5%	1/16W	R774	1-218-938-11	RES-CHIP	56	5%	1/16W
R385	1-218-935-11	RES-CHIP	33	5%	1/16W	R775	1-218-945-11	RES-CHIP	220	5%	1/16W
R386	1-218-935-11	RES-CHIP	33	5%	1/16W	B776	1-211-982-11	METAL CHIP	36	0.5%	1/10W
D297	1_218_025_11		33	5%	1/16W	11170	1 211 002 11		00	0.070	1/1000
D201	1 000 455 11		55	J /0	1/1000	D777	1 011 000 11		20	0 50/	1/101/
R391	1-208-400-11	RES-CHIP	0.0	3 %	1/1000	R///	1-211-982-11		30	0.5%	1/1000
						R778	1-218-953-11	RES-CHIP	1K	5%	1/16W
R407	1-218-985-11	RES-CHIP	470K	5%	1/16W	R825	1-218-953-11	RES-CHIP	1K	5%	1/16W
R408	1-208-923-11	METAL CHIP	33K	0.5%	1/16W	R826	1-218-953-11	RES-CHIP	1K	5%	1/16W
R410	1-219-724-11	MFTAL CHIP	1	1%	1/4W	B830	1-218-965-11	RES-CHIP	10K	5%	1/16W
R411	1-210-724-11	METAL CHIP	1	1%	1/4W	11000	1 210 000 11		TOIL	0,0	1/1011
D/10	1 200 021 11			0 5 00/	1/10/	0000	1 010 005 11		1701/	E0/	1/16/1/
R41Z	1-208-931-11	RES-CHIP	000	0.50%	1/1600	R930	1-218-985-11	RES-UHIP	470K	0% 50/	1/1000
						R931	1-218-985-11	RES-CHIP	470K	5%	1/16W
R414	1-218-977-11	RES-CHIP	100K	5%	1/16W						
R415	1-218-941-81	RES-CHIP	100	5%	1/16W			< COMPOSITION	CIRCUIT BI	LOCK >	
R417	1-218-979-11	RES-CHIP	150K	5%	1/16W						
R418	1-208-927-11	METAL CHIP	47K	0.5%	1/16W	BB204	1-234-378-11	RES NETWORK	106 (1005	584)	
DE01	1 010 000 11		4/10	0.070	1/1000	DP204	1 004 075 01	DEC NETWORK	11/ (1005)	(4)	
N901	1-210-990-11	STUKI UHIP	U			KB200	1-204-3/5-21	RES, NETWORK	IN (1005)	N4)	
R502	1-208-721-11	METAL CHIP	39K	0.5%	1/16W			< SENSOR >			
R504	1-208-935-11	METAL CHIP	100K	0.5%	1/16W						
R505	1-208-909-11	METAL CHIP	8.2K	0.5%	1/16W	SF501	1-479-022-61	SENSOR ANGUL	AR VELOCI	TY (32.2k	Hz)
R506	1-208-601-11	METAL CHIP	2 2K	0.5%	1/16W						··-, (νΔ\Λ/\
DE07	1 000 011 11		101/	0.0/0	1/16\//	0000	1 470 000 51			TV (20 01-	(IAV) U>
n00/	1-200-911-11		IUK	0.0%	1/101	35302	1-419-022-91	JENJUR, ANGUL	AN VELUUI	11 (JU.OK	(DITOLIN
											(PIICH)

SY-201

R	ef. No.	<u>Part No.</u>	Description
			< VARISTOR >
*	VDR701 VDR702	1-802-279-11 1-802-279-11	VARISTOR (SMD) VARISTOR (SMD)
			< VIBRATOR >
*	X001 X201	1-781-525-11 1-813-904-21	VIBRATOR, CRYSTAL (32.768kHz) QUARTZ CRYSTAL OSCILLATOR (38MHz)

Revision History

Ver.	Date	History	Contents	S.M. Rev. issued
1.0	2008.04	Official Release		
1.1	2008.05	Revised-1	• Correction of Note for Schematic Diagrams S. M. Revised: Page 4-3	Yes
1.2	2008.09	Supplement-1 (DI08-235)	Change of Electrical Parts List	No
1.3	2009.06	Supplement-2 (DI09-081)	 Change of Schematic Diagrams Change of Electrical Parts List	No

DSC-H50 RMT-DSC2



SECTION 6 ADJUSTMENTS

Auto-ADJ

Link

Before	starting	adjustn	nents
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- Adjusting items when replacing main parts and boards
- List of service tools

CAMERA SECTION ADJUSTMENTS

- PREPARATIONS BEFORE ADJUSTMENTS
- ADJUSTMENT PROGRAM
- DESTINATION DATA WRITE
- USB SERIAL No. INPUT
- VIDEO SYSTEM ADJUSTMENTS
- CAMERA SYSTEM ADJUSTMENTS
- LCD SYSTEM ADJUSTMENTS
- ERROR

SERVICE MODE

- APPLICATION FOR ADJUSTMENT (SeusEX)
- SERVICE MODE
- DATA BACKUP

• Use this Service Manual together with the Automatic Adjustment Program (DSC-H50 Auto-Adj Ver_1.4r05.exe).



SECTION 6 ADJUSTMENTS

Before starting adjustments

1-1. Adjusting items when replacing main parts and boards

When replacing main parts and boards, adjust the items indicated by \bullet in the following table. **Note:** When replacing the SY-201 board, erase the data in internal memory of the board before replacement.

						Repl	aced	part	s			
			Bl	ock		Μ	ount	ed pa	arts]	Boar	d
		r	eplac	eme	nt	r	eplac	ceme	nt	rep	lacen	nent
Adjusting item	Adjustment		37 flexible board and CCD imager)		LCD unit	(AF illumination LED)	(Timing gen., CCD signal process)	(Video amp.)	(PITCH, YAW sensor)			(Note)
			/ (Including CD-7)		LCD901	D002	IC304	IC602	SE502, SE501	(COMPLETE)	(COMPLETE)	(COMPLETE) (
		Lens block	CCD block assy	Flash unit	LCD block	LE-042 board	SY-201 board	SY-201 board	SY-201 board	LE-042 board	ST-195 board	SY-201 board
Destination Data Write	Destination data write											
USB Serial No. Input	USB serial No. input											
Composite video level adjustment	Composite video level adj.							•				•
	Component out Y level adj.											
Component video level	Component out Pb level adj.	1										ullet
adjustment	Component out Pr level adj.											
CAMERA adjustment 1	Hall adj.											
CAMERA adjustment 2	Wide limit adj.											
CAMERA adjustment 3	Flange back adj.											
CAMERA adjustment 4	Flange back check											
CAMERA adjustment 5	Light falloff balance adj.											
	F No. compensation											
CAMERA adjustment 6	Measure gain, LV adj.											
	Mechanical shutter adj.											
	AWB 3200K-5800K standard data input											
	AWB 3200K-5800K check											
CAMERA adjustment 7	Color reproduction adj. & check											ullet
	CCD white defect compensation check											
	CCD black defect compensation check											
CAMERA adjustment 8	Strobe adj.											
CAMERA adjustment 9	Auto focus illumination check											
CAMERA adjustment 10	Angular velocity sensor sensitivity adj.	\bullet										\bullet
LCD adjustment	V-COM adj.											
LeD adjustment	White Balance adj.											

Table 6-1-1

1-2. List of service tools



Fig. 6-1-1

Note 1: Personal computer

- OS: Windows 2000/XP/Vista
- RAM: 256 MB or more recommended
- USB: 2.0 recommended (also compatible with 1.1)
 - Two connectors are required.
- **Note 2:** In using the 9 colors chart on the pattern box PTB-450, adjust the chart size through the procedure shown below so that it matches to the pattern box PTB-450.
 - 1) Prepare a woody board A of the thickness 5 mm, and paint it mat-black.
 - 2) Fit the 9 colors chart in the woody board A, and secure the chart with a black tape, etc. to shield the light.



6-1. CAMERA SECTION ADJUSTMENTS

1-1. PREPARATIONS BEFORE ADJUSTMENTS

1-1-1. Preparations

- 1) Connect the equipment for adjustments according to Fig. 6-1-2.
- 2) Start up the application for adjustment (SeusEX).



Fig. 6-1-2

Note: The set must be connected to the Component video out jig when performing the "Component out (Y, Pb, Pr) level adjustment" in the "Video System Adjustment".

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Fig. 6-1-3

1-1-2. Precautions

1. Setting the Switch

- Unless otherwise specified, set the switches as follows and perform adjustments.
- 1. Mode dial Auto Adjustment
- 2. W/T (Zoom) button WIDE end
- 3. Digital Zoom
- (Settings Shooting Settings Shooting Settings 1) Off 4. Conversion Lens
- (Settings Shooting Settings Shooting Settings 1)....Off



Fig. 6-1-4

2. Subjects

- 9 colors chart (Standard picture frame). When performing adjustments using the 9 colors chart, adjust the picture frame as shown in Fig. 6-1-4. (Standard picture frame)
- 2) Clear chart (Standard picture frame)

Remove the 9 colors chart from the pattern box and insert a clear chart in its place. (Do not perform zoom operations during this time)

3. Setting Distance between Pattern Box and Camera

Set the distance from the front of the lens to the pattern box as shown in Fig. 6-1-5.



Fig. 6-1-5

4. Precautions When Using Pattern Box

- It takes about 30 minutes for pattern box to stabilize its brightness. Turn on the pattern box 30 minutes before the adjustment starts.
- 2) Make arrangement so that the outside light does not enter the chart surface in the pattern box.

Also, place a board between chart and camera, and make a hole at the lens part of the board so that the camera is not reflected in the shot image screen.

(Adjustment may not be performed correctly due to the influence of outside light.) **Example 1:** Place a box to block a section between pattern box and camera.



Fig. 6-1-6

Example 2: Place a board having a hole in front of the camera and cover the pattern box and camera with a blackout curtain



Fig. 6-1-7

3) Control of color chart

The color chart will fade if it is exposed to direct sunlight or strong light.

Since the fading of color chart progresses even with the light in the pattern box, remove and store the color chart when it is not used. Remove the color chart and store it.

Store the color chart in a place not exposed to direct light, avoiding high temperature and humidity.

Use the color chart for about three years, and afterward replace it with a new chart.

5. Preparing the Flash Adjustment Box

A dark room is required to provide an accurate flash adjustment. If it is not available, prepare the flash adjustment box as given below;

1) Provide woody board A, B, C and D of 15 mm thickness.



Fig. 6-1-8

- 2) Apply black mat paint to one side of woody board A, B and D.
- 3) Attach background paper (J-2501-130-A) to woody board C.
- 4) Assemble so that the black sides and the background paper side of woody board A, B, C and D are internal. (Fig. 6-1-9)



Fig. 6-1-9



Fig. 6-1-10

1-2. ADJUSTMENT PROGRAM

The DSC-H50 is adjusted by the Automatic Adjustment Program. The Automatic Adjustment Program enters automatically via the SeusEX the adjustment operations that were formerly entered manually by the adjustment remote commander (some items may be adjusted by manual operation on the operation screen of the SeusEX).

1. Precautions When Using Automatic Adjustment Program

- The Automatic Adjustment Program writes the adjustment results such as EVR data to the set through two-way communication with the camera via the SeusEX. Accordingly, the Automatic Adjustment Program must be used in the environment where the SeusEX operates.
- 2) The Automatic Adjustment Program cannot be used when the SEUS or the SeusCam is running. Exit the SEUS or the SeusCam before using the Automatic Adjustment Program.
- 3) The SeusEX must be already started on the PC when using the Automatic Adjustment Program. With the SeusEX not started, some adjustment items will take time in adjustment.
- 4) The program run time may vary depending on the environment of the personal computer used.

2. Start of Automatic Adjustment Program

Double-click the application file (DSC-H50 Auto-Adj Ver_1.4r05.exe), and the Automatic Adjustment Program will start.

3. Function of Each Button on Main Menu Screen

When the Automatic Adjustment Program started, the Main Menu screen in Fig. 6-1-11 will appear. On this screen, select each adjustment section.





- Connecting the Equipment button A connection diagram of the equipment is displayed.
- CONNECT button
 The mode of Camera is switched to the Adjustment Mode.
 When the Adjustment Mode has switched normally, the operation of the buttons (4) (10) is enabled.
- END button The mode of Camera is switched to the normal mode. When the normal mode has switched correctly, the Automatic Adjustment Program is finished.
- (a) [DESTINATION DATA WRITE] button The "DESTINATION DATA WRITE" screen appears.
- (5) USB SERIAL NO. INPUT button The "USB SERIAL NO. INPUT" screen appears.
- (6) VIDEO SYSTEM ADJUSTMENT button The "VIDEO SYSTEM ADJUSTMENT" screen appears.
- ⑦ CAMERA SYSTEM ADJUSTMENT button The "CAMERA SYSTEM ADJUSTMENT" screen appears.
- (a) LCD SYSTEM ADJUSTMENT button The "LCD SYSTEM ADJUSTMENT" screen appears.
- SERVICE MODE button The "SERVICE MODE" screen appears.
- DATA BACKUP button The "DATA BACKUP" screen appears.
- ① This part indicates the version of Automatic Adjustment Program.
- Adjust item button
 "Adjusting items when replacing main parts and boards" table is displayed.

4. Setting of Adjustment Mode

Before performing the adjustment, "Setting of Adjustment Mode" is required.

[Setting method]

- 1) Connect the Camera to the PC with a USB cable, and turn on the power switch.
- 2) Start the Automatic Adjustment Program, and click the <u>Con-</u><u>nect</u> button on the Main Menu screen.
- 3) Turn off the power button of the set when the following message is displayed.

Auto-Adj	×
1	Turn off the power button of the set, and then disconnect the DC IN jack once. After that, reconnect the DC IN jack and turn on the power button of the set again.
	<u>OK</u>

- 4) Once turn off a set completely by pulling a "DC In Jack".
- 5) Connect a "DC In Jack" again and turn on a set by the power button of a body.

Click the \boxed{OK} button on the message screen when the set started.

6) Upon successful completion of the settings in the Adjustment Mode, the operation of each button on the Main Menu screen is enabled.

5. Release of Adjustment Mode

To finish the adjustment, be sure to perform "Release of Adjustment Mode".

[Releasing method]

- 1) Click the END button on the Main Menu screen.
- 2) When the following message is displayed, releasing of adjustment mode has completed. Click the OK button in the message window to exit the Automatic Adjustment Program.
 - **Note:** The Camera switches to the normal mode by turning off and on the power switch. After the adjustment finished, turn off and on again the power switch of the Camera to confirm that the USB mode screen is displayed.

Auto-Adj 🛛 🗙
Release of Adjustment Mode Complete
(COK

1-3. DESTINATION DATA WRITE

Note: The DESTINATION DATA WRITE cannot be set with other than the Service board.

1. Function of Each Button on Destination Data Write Screen

Click the **DESTINATION DATA WRITE** button on the Main Menu screen, and the "DESTNATION DATA WRITE" screen in Fig. 6-1-12 will appear.



- (1) <u>To Menu</u> button Return to the main menu.
- Destination Check button Current destination setting checked when the "DESTINATION DATA WRITE" screen started is displayed. When this button is clicked, the destination is checked and the display is updated.
- ③ Destination List Select the written destination.
- Data Write button
 Write the destination data to the camera.

3. Selectable Language Table

2. Destination Data Write

[Writing method]

1) Select the written destination with the Destination List.

💐 Automatic Adjustment for	×					
DESTINATION D	DESTINATION DATA WRITE					
Current Destination - De	estination Se	elect —				
J1		• ?	Data <u>W</u> rite			
	J1 JE3	-				
Ready to serve.	U2					
	CA2					
	CEE2					
	CEE9					
	CEH	•				

2) Click the Data Write button.

🐂 Automatic Adjustment for DSC-H50	×
DESTINATION DATA WRITE	<u>T</u> o Menu
Current Destination Destination Select	Data <u>W</u> rite
Ready to serve.	

3) Following message will be appeared after completing data writing.

Auto-Adj	×
	Destination Data Write Completed. The changes will not take effect until you reset the Camera.
_	Please click on [OK] button. The Camera will automatically reset.
	<u></u>

4) After the destination data writing completed, click the Destination Check button to check the destination

Z										S	ELE	СТА	BLE	LA	NGU	AGE											
DESTINATIO	AREA	Japanese	English	French	German	Spanish	Italian	Portuguese	Simplified Chinese	Traditional Chinese	Dutch	Russian	Korean	Persian	Arabic	Thai	Melayu	Swedish	Norwegian	Danish	Finnish	Polish	Czech	Hungarian	Turkish	Greek	VIDEO OUT Default
J1	J	•																									NTSC
JE3	JE		•			0		0	0	0			0	0	0	0	0										PAL
U2	US		•	0		0	0		0	0																	NTSC
CA2	CND		٠	0		0	0		0	0																	NTSC
CEE2			0	0	0	0	0	0			0							0	0	0	0	0	0	0	0	0	PAL
CEE8	AEP		•	0	0	0	0	0			0							0	0	0	0	0	0	0	0	0	PAL
CEE9			\bullet	0	0	0	0	0			0	0						0	0	0	0	0	0	0	0	0	PAL
CEH	UK		•	0	0	0	0	0			0							0	0	0	0	0	0	0	0	0	PAL
E15			٠			0		0	0	0			0	0	0	0	0										PAL
E32	E		•			0		0	0	0			0	0	0	0	0										PAL
E33			0			•		0	0	0			0	0	0	0	0										NTSC
TH6	Thai		0			0		0	0	0			0	0	0	۲	0										PAL
AU2	AUS		٠	0		0	0		0	0																	PAL
HK1	HK		٠			0		0	0	0			0	0	0	0	0										PAL
CN2	CH		0			0		0		0			0	0	0	0	0										PAL
KR2	KR		0			Ō		Ō	0	Ō				0	0	0	0										NTSC
AR2	AR		0			•		Ō	0	0			0	0	0	0	0										NTSC
BR1	BR		0			0			0	0			0	0	0	0	0										NTSC

INITIAL LANGUAGE

Table 6-1-2

1-4. USB SERIAL No. INPUT

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.

If original ID can be read from the board before replacement, read it from the board before replacement using the "SERIAL READ/ WRITE" screen, and then write it after replacement.

If original ID cannot be read from the board before replacement, write the ID for service using the "MANUAL WRITE" screen. (The ID for service is different from the ID written when the set is shipped.) Enter the PRODUCT ID (last 5 characters of model name) and SERIAL No. into the screen and write them.

1. Function of Each Button on USB Serial No. Input Screen

Click the USB SERIAL No. INPUT button on the Main Menu screen, and "USB SERIAL No. INPUT" screen in Fig. 6-1-13 will appear.



Fig. 6-1-13

- (1) <u>To Menu</u> button Return to the main menu.
- ② Display area The "PRODUCT ID" and "SERIAL No." are displayed.
- ③ Check Serial button The USB SERIAL No. data is read from the camera and displayed in the display area.
- (a) Read and Save button The USB SERIAL No. data is read from the camera and saved in PC as a file.

Default file name is as follows:

DSC-H50_SERIAL_xxxxxxx_yyyymmdd.dat



5 Load and Write button

The USB SERIAL No. data is loaded from the file saved in PC and written to the camera.

(6) Input area

Enter "PRODUCT ID" and "SERIAL No." when writing the ID for service.

The "PRODUCT ID" is set from the last 5 characters of model name if the model name is selected.

For the "SERIAL No.", read it from the label on the camera body and enter it.

7 Write Manually button

The USB SERIAL No. data entered in the input area is written to the camera.

1-5. VIDEO SYSTEM ADJUSTMENTS

1-5-1. Function of Each Button on Video System Adjustment Screen

Click the VIDEO SYSTEM ADJUSTMENT button on the Main Menu screen, and the "VIDEO SYSTEM ADJUSTMENT" screen in Fig. 6-1-14 will appear.



Fig. 6-1-14

- (1) <u>To Menu</u> button Return to the main menu.
- Preparation button
 Notes for adjustment or jigs used are displayed.
- 3 Start button

Each adjustment "Composite Video Level Adjustment" or "Component Video Level Adjustment" starts.

(4) Reboot button

When this button is clicked, the camera is rebooted.

(5) Release Data Setting button

The data setting at the adjustment is cancelled.

During the data setting, the button color changes from "white" to "red". When the data setting is cancelled, the button color returns to "white".

(Use this button when an error occurred in the video adjustment. If the adjustment completed successfully, the data setting is automatically cancelled and the button color returns to "white".)

1-5-2. Adjustment Items of VIDEO System Adjustment

The adjustment items of video system adjustment are as listed in Table 6-1-3. The Automatic Adjustment Program executes the adjustment items if the VIDEO Adjustment Start button is clicked.

Button	Adjustment	Massurament Boint	Measuring	Adjusting Address				
Name	Adjustment	Measurement Point	Instrument	Block	Page	Address		
Composite Video Level Adjustment	Composite Video Level Adj.	VIDEO terminal of USB, A/V cable for multi-use terminal (75 ohm terminated)	Oscilloscope	11	60	06B8		
	Component Out Y Level Adj.	Land of HD_Y (Component video out jig)	Oscilloscope	11	60	0680		
Video Level	Component Out Pb Level Adj.	Land of HD_Pb (Component video out jig)	Oscilloscope	11	60	0681		
Aujustillent	Component Out Pr Level Adj.	Land of HD_Pr (Component video out jig)	Oscilloscope	11	60	0682		

Table 6-1-3

1-5-3. Adjusting Method

1. Composite Video Level Adjustment [Automatic Adjustment Program execution items and sequence]

- 1. Data Setting during Video Adj.
- 2. Composite Video Level Adj.
- 3. Release of Data Setting during Video Adj.

[Adjusting method]

- 1) Click the Start button of the Composite Video Level Adj.
- 2) The Automatic Adjustment Program executes the "1. Data Setting during Video Adj.".
- 3) If "1. Data Setting during Video Adj." completed successfully, the following screen is displayed during the execution of "2. Composite Video Level Adj.". Using the Up/Down button on the screen, adjust so that the sync level of the video signals satisfies the specified value. After the adjustment, click the End button in the screen.



 If the End button is clicked, the following message and screen are displayed. Check that the sync signal level and burst level of the video signals satisfies the specified value, and click the OK button in the message.

Auto-Adj
Check that the sync signal level (A) and burst signal level (B) satisfies the specified value
🖷 VIDEO OUT Level Check 🔀
Check on Oscilloscope
Measurement Point: Video terminal of USB, A/V cable for multi-use terminal (75 ohm terminated)
Specified Value A = 300 ± 10 mVp-p B = 300 ± 30 mVp-p

- If the OK button is clicked, "3. Release of Data Setting during Video Adj." will be executed.
- Upon successful completion of all item the Composite Video Level Adjustment, the following message is displayed. Click the OK button.

Auto-Adj	×
Composite Video Level Adjust	ment Complete
[0K]	

2. Component Video Level Adjustment

[Automatic Adjustment Program execution items and sequence]

- 1. Data Setting during Video Adj.
- 2. Component Out Y Level Adj.
- 3. Component Out Pb Level Adj.
- 4. Component Out Pr Level Adj.
- 5. Release of Data Setting during Video Adj.

[Adjusting method]

- Click the <u>Start</u> button of the Component Video Level Adjustment.
- 2) The Automatic Adjustment Program executes the "1. Data Setting during Video Adj.".
- 3) If "1. Data Setting during Video Adj." completed successfully, the following screen is displayed during the execution of "2. Component Out Y Level Adj.". Using the Up/Down button on the screen, adjust so that the Y signal level satisfies the specified value. After the adjustment, check that the sync level of the Y signals satisfies the specified value, and click the End button in the screen.



4) After that, the following screen is displayed during the execution of "3. Component Out Pb Level Adj.". Using the Up/ Down button on the screen, adjust so that the Pb signal level satisfies the specified value. After the adjustment, check that the sync level of the Pb signals satisfies the specified value, and click the End button in the screen.



5) After that, the following screen is displayed during the execution of "4. Component Out Pr Level Adj.". Using the Up/ Down button on the screen, adjust so that the Pr signal level satisfies the specified value. After the adjustment, check that the sync level of the Pr signals satisfies the specified value, and click the End button in the screen.

🖱 Component Out Pr Level Adj. 🗙 🗙							
Check on Oscilloscope							
Measurement Point: Land of HD_Pr (Component video out jig)	Specified Value A = 640 ± 6 mVp-p B = C = 300 ± 10 mVp-p						
Change the data, and set th (Using UP/DOWN button or	e Pr signal level to the specified value. this screen.)						
Data Chan Up	Down Data: D0						
Check the sync signal (B, C	Check the sync signal (B, C) satisfies the specified value.						
	End						

- If the End button is clicked, "5. Release of Data Setting during Video Adj." will be executed.
- Upon successful completion of all item the Component Video Level Adjustment, the following message is displayed. Click the OK button.

Auto-Adj 🛛
Component Video Level Adjustment Complete
[]

1-6. CAMERA SYSTEM ADJUSTMENTS

1-6-1. Function of Each Button on Camera System Adjustment Screen

Click the CAMERA SYSTEM ADJUSTMENT button on the Main Menu screen, and the "CAMERA SYSTEM ADJUSTMENT" screen in Fig. 6-1-15 will appear.



Fig. 6-1-15

- (1) <u>To Menu</u> button Return to the main menu.
- Preparation button Notes for adjustment or jigs used are displayed.
- ③ Start button Each adjustment from "Camera Adjustment 1" to "Camera Adjustment 10" starts.
- (a) [Reboot] button When this button is clicked, the camera is rebooted.
- (5) Release Data Setting button

The data setting at the adjustment is cancelled. During the data setting, the button color changes from "white" to "red". When the data setting is cancelled, the button color returns to "white".

(Use this button when an error occurred in the camera adjustment. If the adjustment completed successfully, the data setting is automatically cancelled and the button color returns to "white".)

1-6-2. Adjustment Items of Camera System Adjustment

The adjustment items of camera system adjustment are as listed in Table 6-1-4. The Automatic Adjustment Program divides the adjustment items into tens, camera adjustment 1-10. Clicking either CAMERA Adjustment Start button allows the adjustment item which corresponds to that button to be executed.

The adjustment conditions of the subject and filter vary depending on which item is adjusted. The Adjustment Program displays an instruction for the subject and filter as a message during the adjustment.

Button Name	Adjustment	Subject	Adjusting Address					
Button Name	Aujustinent	Subject	Block	Page	Address			
CAMERA Adjustment 1	Hall Adj.	Not required	11	61	0E00 to 0E06, 0E08, 0E09			
	Auto Orientation Adj.	Not required	11	61	0E0A to 0E0D			
CAMERA Adjustment 2	Wide Limit Adj.	Not required	11	61	0F18, 0F19			
CAMERA Adjustment 3	Flange Back Adj.	Siemens star chart with ND filter for minipattern box (Note) or Flange back adjustment jig	11	61	069C to 069F, 06CC, 06D8 to 06DF, 06E8 to 06EF, 0794 to 079D, 0F1C to 0F1D, 0F20, 0F24, 0F26 to 0F53			
CAMERA Adjustment 4	Flange Back Check	Siemens star (1.0m from front the lens) (Illuminance: 200 to 400 lux)	-	-	-			
CAMERA Adjustment 5	Light Falloff Balance Adj.	Not required	11	61	0E12 to 0E15			
	F No. Compensation		11	61	0A4D to 0A4F, 0ABD to 0ABF, 0ACB			
CAMERA Adjustment 6	Measure Gain, LV Adj.	(Standard picture frame)	11	61	0961 to 0968			
	Mechanical Shutter Adj.		11	61	0980 to 09AD			
	AWB 3200K-5800K Standard Data Input		11	61	0C00 to 0C21, 0C24 to 0C49			
	AWB 3200K-5800K Check	9 colors chart (Standard picture frame)	-	-	-			
CAMERA Adjustment 7	Color Reproduction Adj. & Check		11	61	0C50 to 0C57			
	CCD White Defect Compensation Check	Clear chart	11	61	0200 to 03FF			
	CCD Black Defect Compensation Check	(Standard picture frame)	11	61	0000 to 01FF			
CAMERA Adjustment 8	Strobe Adj.	Flash adjustment box (50 cm)	11	61	0C72 to 0C75, 09C0 to 09DD			
CAMERA Adjustment 9	Auto Focus Illumination Check	Flash adjustment box (50 cm)	11	61	0F10 to 0F15			
CAMERA Adjustment 10	Angular Velocity Sensor Sensitivity Adj.	Not required	11	61	0E10, 0E11			

Note: Dark Siemens star chart.

Table 6-1-4

1-6-3. Adjusting Method 1. CAMERA Adjustment 1

Note: There is no magnetic substance within around 8 cm of the camera.

[Automatic Adjustment Program execution items and sequence]

- 1. Data Setting during Camera Adj.
- 2. Hall Adj.
- 3. Auto Orientation Adj.
- 4. Release of Data Setting during Camera Adj.

[Adjusting method]

- 1) Click the Start button of CAMERA Adjustment 1.
- The Automatic Adjustment Program executes the "1. Data Setting during Camera Adj.".
- 3) Upon successful completion of "1. Data Setting during Camera Adj.", the following message and screen are displayed. Set the camera in accordance with the message.



4) If the OK button is clicked, "2. Hall Adj." will be executed.
5) Upon successful completion of "2. Hall Adj.", the following message and screen are displayed. Set the camera in accor-



- If the OK button is clicked, "3. Auto Orientation Adj." and "4. Release of Data Setting during Camera Adj." will be executed.
- Upon successful completion of all items of the CAMERA Adjustment 1, the following message is displayed. Click the OK button.

Auto-Adj		\mathbf{X}
CAMER.	A Adjustment 1 C	omplete

Processing after Completing Adjustment: [Checking method]

- [HOME screen] → [Settings] → [Shooting Settings] → [Shooting Settings 2] → Select [Auto Orientation] to "ON".
- 2) Shoot with the set in respective positions (a) to (c) shown below.
- 3) Check the pictures in the Playback mode to confirm that the pictures are rotated correctly.







Fig. 6-1-16

Perform this adjustment only when replacing the lens block or SY-201 board.

Adjustment Block	11
Adjustment Page	61
Adjustment Address	0F18, 0F19

2-1. Preparation when the lens is replaced

When replacing the lens, write down the wide limit data given on the data sheet of the replacement lens for service.

Note: The wide limit data of lens is written only repair parts.



Fig. 6-1-17

2-2. Preparation when the SY-201 board is replaced

Read out the previous data by using the Save button of the auto adjustment program.

Note: If correct data reading failed, replace the lens together with the SY-201 board.

2-3. Wide Limit Adjustment [Adjusting method]

1) Click the Start button of Camera Adjustment 2, and the following screen will appear.



The buttons on this screen provide the following functions. Read & Save button

- Saves the wide limit data (2-byte data) read out from the set into a file.
- Displays a "Wrong Data Error" message if the data value is not correct.
- Default file name is as follows:

DSC-H50_WLIMIT_xxxxxxx_yyyymmdd.dat



Load & Write button

- Writes the wide limit data (2-byte data) read out from the file into the camera memory.
- Displays a "Wrong Data Error" message if the value read out from the file is not correct.

Manual Write button

- Writes the entered wide limit data (2-byte data) into the camera memory.
- Displays a "Wrong Data Error" message if the input value is not correct.
- 2) When the lens was replaced, enter the wide limit data given on the data sheet of the replacement lens for service into the screen, and press the Manual Write button.
- 3) When the SY-201 board was replaced, press the Load & Write button.
- 4) Upon successful completion of the data writing, the following screen will appear.

Perform the Flange Back Adjustment.



[Automatic Adjustment Program execution items and sequence]

- 1. Data Setting during Camera Adj.
- 2. Flange Back Adj.
- 3. Release of Data Setting during Camera Adj.

Preparation of Flange Back Adj.

(Using the minipattern box)

- 1) The minipattern box is installed as shown in the following figure.
 - **Note 1:** The attachment lenses are not used.
- 2) Install the minipattern box so that the distance between it and the front of lens of camera is less than 3 cm.
- 3) Make the height of minipattern box and the camera equal.
- 4) Check the output voltage of the regulated power supply is the specified voltage ± 0.01 Vdc.
- 5) Check that the center of Siemens star chart meets the center of shot image screen with the zoom lens at TELE end and WIDE end respectively.
- Specified voltage: The specified voltage varies according to the minipattern box, so adjustment the power supply output voltage to the specified voltage written on the sheet which is supplied with the minipattern box.



Fig. 6-1-18

Preparation of Flange Back Adj.

(Using the flange back adjustment jig)

- (Illuminance: about 300 lux)
- **Note 2:** When using the flange back adjustment jig, take care of the following points:
 - For the illumination, use a light source such as an incandescent lamp or inverter type fluorescent light free from flickering.
 - Do not make an adjustment in the environment where fluorescent lamp flickering occurs even if the illuminance can be ensured with the room illumination only. Use an incandescent lamp or inverter type fluorescent light at a place free from the influence of room illumination.
- 1) Install the flange back adjustment jig so that the distance between it and the front of lens of camera is less than 3 cm.
- 2) Make the height of flange back adjustment jig and the camera equal.
- 3) Check that the center of chart meets the center of shot image screen with the zoom lens at TELE end and WIDE end respectively.



Fig. 6-1-19

[Adjusting method]

1) If the Start button of the CAMERA Adjustment 3 is clicked, the following message is displayed.

If "Wide Limit Adjustment" is necessary, click the Cancel button to interrupt the Adjustment Program, and perform "2-3. Wide Limit Adjustment".



- 2) If the OK button is clicked, the Automatic Adjustment Program executes "1. Data Setting during Camera Adj.".
- Upon successful completion of the "1. Data Setting during Camera Adj.", the following message is displayed. Set the subject by referring to "Preparation of Flange Back Adj.".

Auto-Adj X
Subject: Siemens star chart with ND filter for the minipattern box or Flange back adjustment jig (Illuminance: about 300 lux)
<u> </u>

- If the OK button is clicked, "2. Flange Back Adj." and "3. Release of Data Setting during Camera Adj." will be executed.
- 5) Upon successful completion of all items of the CAMERA Adjustment 3, the following message is displayed. Click the OK button.

Auto-Au		
CAMERA Adjustment 3 Complete		
	ОК	

4. CAMERA Adjustment 4

[Automatic Adjustment Program execution items and sequence]

- 1. Data Setting during Camera Adj.
- 2. Flange Back Check
- 3. Release of Data Setting during Camera Adj.

[Adjusting method]

- 1) Click the Start button of the CAMERA Adjustment 4.
- 2) The Automatic Adjustment Program executes "1. Data Setting during Camera Adj.".
- Upon successful completion of the "1. Data Setting during Camera Adj.", the following message is displayed. Set the subject in accordance with the message.

Auto-Adj 🛛 🔀		
Subject: Siemens star chart (1.0m from the front of lens) (Illuminance: 200 to 400 lux)		
OK		

 Click the OK button is clicked, "2. Flange Back Check" is executed. The following messages are displayed, and then operate the camera to make a check in accordance with the messages.

Auto-Adj	×		
	Shoot the siemens star with the zoom TELE end.		
	Observe the TV monitor and check that the lens is focused.		
	(OK]		
Auto-Adj		×	
⚠	While observe the TV monitor, change the zoom to the WIDE end and check that the lens is focused.		
A DOMESTICS	and check that the lens is focused	•	

- Upon completion of "2. Flange Back Check", "3. Release of Data Setting during Camera Adj." is executed.
- Upon successful completion of all items of the CAMERA Adjustment 4, the following message is displayed. Click the OK button.

Auto-Adj 🛛 🕅 🕅
CAMERA Adjustment 4 Complete
OK

Note: Perform this adjustment only when the Lens Block or CCD Block Assy was replaced.

[Automatic Adjustment Program execution items and sequence]

1. Light Falloff Balance Adj.

[Adjusting method]

1) If the <u>Start</u> button of the CAMERA Adjustment 5 is clicked, the following message is displayed.

Auto-Adj	×
⚠	Perform this adjustment only when the Lens Block or CCD Block Assy was replaced.
	Does the adjustment start?
	Cancel

- 2) Press the OK button, and the "1. Light Falloff Balance Adj." will be executed.
- Upon successful completion of all items of the CAMERA Adjustment 5, the following message is displayed. Click the OK button.

Auto-Ad	i 💌
CAMER	RA Adjustment 5 Complete
	OK]

6. Picture Frame Setting (Standard Picture Frame)

In the "CAMERA Adjustment 6 and CAMERA Adjustment 7", set the picture frame so as to attain the positions shown in the following figure when shooting the 9 colors chart.

Check on the oscilloscope

Measurement Point: Video terminal of USB, A/V cable for multiuse terminal (75 Ω terminated)

1. Horizontal period





2. Vertical period



Fig. 6-1-21

Check on the monitor TV or the LCD screen



Fig. 6-1-22

7. CAMERA Adjustment 6

[Automatic Adjustment Program execution items and sequence]

- 1. Data Setting during Camera Adj.
- 2. Picture Frame Setting
- 3. F No. Compensation
- 4. Measure Gain, LV Adj.
- 5. Mechanical Shutter Adj.
- 6. Release of Data Setting during Camera Adj.

[Adjusting method]

- 1) Click the Start button of the CAMERA Adjustment 6.
- 2) The Automatic Adjustment Program executes the "1. Data Setting during Camera Adj.".
- 3) Upon successful completion of "1. Data Setting during Camera Adj.", "2. Picture Frame Setting" is executed. The following message is displayed, and then referring to Fig. 6-1-20 to Fig. 6-1-22, set the subject and click the OK button.

Auto	-Adj 🔀
Sh	oot the 9 colors chart with the zoom WIDE end.
Adj and	ust the direction and distance between the pattern box and camera, I set the picture frame to the specified position.
	(OK)

After that, the next message is displayed. Then, change the chart in accordance with the message.



- Click the OK button, and the items from "3. F No. Compensation" to "6. Release of Data Setting during Camera Adj." will be executed.
- 5) Upon successful completion of all items of the CAMERA Adjustment 6, the following message is displayed. Click the OK button.



[Automatic Adjustment Program execution items and sequence]

- 1. Data Setting during Camera Adj.
- 2. Picture Frame Setting
- 3. AWB 3200K-5800K Standard Data Input
- 4. AWB 3200K-5800K Check
- 5. Color Reproduction Adj. & Check
- 6. CCD White Defect Compensation Check
- 7. CCD Black Defect Compensation Check
- 8. Release of Data Setting during Camera Adj.

[Adjusting method]

- 1) Click the Start button of the CAMERA Adjustment 7.
- The Automatic Adjustment Program executes the "1. Data Setting during Camera Adj.".
- Upon successful completion of "1. Data Setting during Camera Adj.", "2. Picture Frame Setting" is executed. The following message is displayed, and then referring to Fig. 6-1-20 to Fig. 6-1-22, set the subject and click the OK button.

Auto-Adj 🛛 🔀	
Sł	hoot the 9 colors chart with the zoom WIDE end.
Ac an	djust the direction and distance between the pattern box and camera, nd set the picture frame to the specified position.

- Click the OK button, and the "3. AWB 3200K-5800K Standard Data Input" and "4. AWB 3200K-5800K Check" will be executed.
- After that, "5. Color Reproduction Adj. & Check" will be executed. Upon completion of adjustment, the check result is displayed on the Color Reproduction Check screen.



At this time, the following message is displayed, and click the \boxed{Yes} button if the check result display at the upper right of Color Reproduction Check screen is OK, or the \boxed{No} button if NG.

Auto-Adj		2	<
	Confirm the Color F	eproduction Check screen.	
	Is the check result	OK?	
	Yes	No	

 Upon successful completion of "5. Color Reproduction Adj. & Check", the following message is displayed. Change the chart in accordance with the message.

Auto-Adj 🔀
Remove the 9 colors chart and set the clear chart on the pattern box.
Check that the whole of the screen is white. If not, adjust the direction and distance slighty.
ОК

- Click the OK button, and the items from "6. CCD White Defect Compensation Check" to "8. Release of Data Setting during Camera Adj." will be executed.
- Upon successful completion of all items of the CAMERA Adjustment 7, the following message is displayed. Click the OK button.



Note: "CAMERA Adjustment 8" is available only once after the power is turned on. If the adjustment is retried, turn off the power and turn on again.

[Automatic Adjustment Program execution items and sequence]

- 1. Data Setting during Camera Adj.
- 2. Strobe Adj.
- 3. Release of Data Setting during Camera Adj.

[Adjusting method]

- 1) Click the Start button of CAMERA Adjustment 8.
- 2) The Automatic Adjustment Program executes the "1. Data Setting during Camera Adj.".
- Upon successful completion of the "1. Data Setting during Camera Adj.", the following message is displayed. Set the subject in accordance with the message.

(For the Flash adjustment box, refer to "5. Preparing the Flash Adjustment Box" (see page 6-7).)



- Press the OK button, and the "2. Strobe Adj." will be executed.
- During execution of "2. Strobe Adj.", the following message is displayed. After checking the flashing of strobe light, click the OK button. (This message is displayed 2 times during execution of adjustment.)



- 6) Upon successful completion of "2. Strobe Adj.", "3.Release of Data Setting during CAMERA Adj." is executed.
- Upon successful completion of all items of the CAMERA Adjustment 8, the following message is displayed. Click the OK button.



10. CAMERA Adjustment 9

[Automatic Adjustment Program execution items and sequence]

- 1. Data Setting during Camera Adj.
- 2. Auto Focus Illumination Check
- 3. Release of Data Setting during Camera Adj.

[Adjusting method]

- 1) Click the Start button of CAMERA Adjustment 9.
- 2) The Automatic Adjustment Program executes the "1. Data Setting during Camera Adj.".
- Upon successful completion of the "1. Data Setting during Camera Adj.", the following message is displayed. Set the subject in accordance with the message.

(For the Flash adjustment box, refer to "5. Preparing the Flash Adjustment Box" (see page 6-7).)

Auto-Adj	×
Subject: Flash adjustment box (50cm from the front of lens)	
OK	

- 4) Press the OK button, and the "2. Auto Focus Illumination Check" will be executed.
- Upon successful completion of the "2. Auto Focus Illumination Check", the "3. Release of Data Setting during Camera Adj." will be executed successively.
- Upon successful completion of all items of the CAMERA Adjustment 9, the following message is displayed. Click the OK button.

Auto-Adj	x
CAMERA Adjustment 9 Compl	ete
[OK	

Perform this adjustment only when replacing the angular velocity sensor or lens block. When the microprocessor, circuit etc. is damaged, don't perform this adjustment but check the operations only.

11-1. Precaution before adjustment

Before adjustment, read the following data and record them. When the SY-201 board is replaced, read out the data before the replacement, and record them.

Reading out method:

- 1) Read out the data in Block:11, Page:61, Address:0E10, and name this as Dp.
- 2) Read out the data in Block:11, Page:61, Address:0E11, and name this as Dy.
 - **Note:** The previous data (Dp, Dy) can be read from the SY-201 board and it can be saved in the PC as a file by using the Automatic Adjustment Program. (Refer to "11-4. Angular Velocity Sensor Sensitivity Adjustment")

11-2. Preparation when the angular velocity sensor or the SY-201 board is replaced

Note down the sensitivity displayed on the angular velocity sensor of the repair parts. At this time, note down also to which board it was attached to.

Be sure to check because if attached incorrectly, the screen will vibrate up and down or left and right during the steady shot operations.

Precautions on the Parts Replacement

The PITCH sensor and the YAW sensor are different parts.

Precautions on Angular Velocity Sensor

The sensor incorporates a precision oscillator. Handle it with care as if it dropped, the balance of oscillator will be disrupted and operations will not be performed properly.

Adjustment Block	11
Adjustment Page	61
Adjustment Address	0E10, 0E11

Note: The sensor sensitivity of SE501 and SE502 of the SY-201 board is written only repair parts.

Preparation:

- 1) Read the PITCH sensor (SY-201 board SE502) sensitivity written on repair parts, and named this as S₅₀₂.
- 2) Read the YAW sensor (SY-201 board SE501) sensitivity written on repair parts, and named this as S₅₀₁.

SY-201 BOARD (SIDE A)



Fig. 6-1-23

How to read the sensitivity data of angular velocity sensor

With the pins 1 and 2 of angular velocity sensor placed in the lower position, read the data value.

Description example :

For the sensor sensitivity value 60



Fig. 6-1-24

11-3. Preparation when the lens is replaced

Note down the PITCH/YAW data on the replacement lens for repair.

Adjustment Block	11
Adjustment Page	61
Adjustment Address	0E10, 0E11

Note: The PITCH/YAW data of lens is written only repair parts.

Preparation:

- 1) Read the PITCH data written on repair parts, and named this as L₁.
- Read the YAW data written on repair parts, and named this as L₂.





11-4. Angular Velocity Sensor Sensitivity Adjustment [Adjusting method]

 Click the <u>Start</u> button of Camera Adjustment 9, and the following screen will appear.



The buttons on this screen provide the following functions. <u>Read</u> button: Reads and displays the previous data (Dp, Dy) from the SY-201 board.

- Save button: Saves the previous data (Dp, Dy) in the PC as a file.
- Load button: Loads and displays the previous data (Dp, Dy) from the file saved in the PC.
- Default file name is as follows:

DSC-H50_DpDyDT_xxxxxxx_yyyymmdd.dat



- Input the previous data (Dp, Dy) into screen. If the previous data cannot be read, give a check to the checkbox at lower left of screen.
- 3) Input the sensitivity of respective sensors (S_{501}, S_{502}) read at "Preparation" into the screen.
 - If only either sensor was replaced, give a check to the checkbox for the sensor not replaced at the lower left of the screen.
- 4) Input the PITCH/YAW data of lens (L₁, L₂) read at "Preparation" into the screen.

If the lens was not replaced, give a check to the checkbox at the lower left of the screen.

Note: In order to get the correct value for the adjustment, it is necessary to input a decimal point ("period" or "comma") as same format as windows setting because "Numeric Value Format" depend on the language. (F:123 456 789,00, GB:123,456,789.00, D:123.456.789,00) "Numeric Value Format" setting is available in "Control

Panel"-"Regional and Language Options".

- 5) Click the OK button, and the adjustment data is then calculated from the sensor sensitivity value and the calculation result is written to the memory in the camera.
- 6) Upon successful completion of the data writing, the following screen will appear. Check that the steady shot function operates normally.



1-7. LCD SYSTEM ADJUSTMENTS

1-7-1. Function of Each Button on LCD System Adjustment Screen

Click the <u>LCD SYSTEM ADJUSTMENT</u> button on the Main Menu screen, and the "LCD SYSTEM ADJUSTMENT" screen in Fig. 6-1-26 will appear.

🖷 Automatic Adjustment for DSC-H50	
LCD SYSTEM ADJUSTMENT	To Menu
LCD Adjustment	3
	Reboot

Fig. 6-1-26

- (1) To Menul button Return to the main menu.
- Start button"LCD Adjustment" starts.
- ③ Reboot button

When this button is clicked, the camera is rebooted.

1-7-2. Adjustment Items of LCD System Adjustment

The adjustment items of LCD system adjustment are as listed in Table 6-1-5. The Automatic Adjustment Program executes the adjustment items if the LCD Adjustment Start button is clicked.

Button	Adjustment	Adjusting Address		
Name	Aujustment	Block	Page	Address
LCD	V-COM Adj.	11	60	0401
Adjustment	White Balance Adj.	11	60	0409, 040A

Note: The adjustment data cannot be read or written the SeusEX.

Table 6-1-5
1-7-3. Adjusting Method

1. LCD Adjustment [Automatic Adjustment Program execution items and

- sequence]
- 1. Data Setting during LCD Adj.
- 2. V-COM Adj.
- 3. White Balance Adj.

[Adjusting method]

- 1) Click the Start button of the LCD Adjustment.
- The Automatic Adjustment Program executes "1. Data Setting during LCD Adj.".
- 3) Upon successful completion of the "1. Data Setting during LCD Adj.", the following screen is displayed during the execution of "2. V-COM Adj.". Using the Up/Down button on the screen, adjust so that the brightness of portions A and B on the LCD panel is equal. After the adjustment, click the End button in the screen.

🐂, LCD V-COM Adjustment	x
Check on LCD screen	
Change the data of address: 0401 and adjust the LCD screen. (Using UP/DOWN button on this screen, adjust so that the brightness of portions A and B on the LCD panel is equal.) Block: 11, Page: 60, Address: 0401	
op Down	
End	

4) If the End button is clicked, the following screen is displayed during the execution of "3. White Balance Adj.". Check that the LCD screen is not colored. If colored, using the Up/Down button on the screen, adjust so that the LCD screen is not colored. After the adjustment, click the End button in the screen.

🛋 LCD Transmissive Mode White Balance Adjustment 🛛 🔀
Check on LCD screen
Check that the LCD screen is not colored. If colored, change the data of address: 0409 and 040A so that the LCD screen is not colored. (Using UP/DOWN button on this screen.)
Block: 11, Page: 60, Address: 0409 Up
Block: 11, Page: 60, Address: 040A-
End

5) Upon successful completion of all item the LCD Adjustment, the following message is displayed. Click the OK button.



1-8. ERROR

In the case of an error during the execution of adjustment, the Automatic Adjustment Program interrupts the processing at that point, and displays an error message, and then terminates the program execution there.

1-8-1. Error Message

When an error message is displayed, perform the remedy given below, and then retry adjustment. If the error message is displayed though the remedy was performed, the circuits will be faulty.

1. Connect Error, Adjust Control Error



Symptom	USB communication with the set is abnormal.
Cause	USB cable is not inserted tightly.Power supply is not installed correctly.Communication with SeusEX is abnormal.
Remedy	 Disconnect the USB cable once, and then reconnect it tightly and check that the set is in "USB Mode". Install the power supply correctly. Start the SeusEX and click the Connect to check that the connection state is established.

2. RESET the CAMERA and Try Again



Symptom	The camera is not ready for adjustment.
Cause	Data error exists in the camera.
Remedy	Reset the camera.

3. Adjustment Time Out



Symptom	Adjustment does not finish within the specified time.
Cause	Adjustment conditions are wrong.Data error exists in the camera.
Remedy	Check that the conditions such as a subject are correct.Reset the camera.

4. Adjustment NG



Symptom	The adjusted data does not become the speci- fied value.			
Cause	Adjustment conditions are wrong.Data error exists in the camera.			
Remedy	Check that the conditions such as a subject are correct.Reset the camera.			

5. Data Save Error



How to cancel the data setting during adjustment is display here.

Symptom	data cannot be saved normally. (The data se			
	ting during adjustment cannot be cancelled)			
Cause	• Data writing to the flash memory failed.			
	Connection is faulty.			
	• Power supply is not installed correctly.			
Remedy	• On the SeusEX Operation screen, Set the			
	data to the pages and addresses displayed in			
	the message, and Save them. (Cancel manu-			
	ally the data setting during adjustment.)			
	• Check the connection.			
	• Install the power supply correctly.			

1-8-2. Precautions When an Error Occurred

The Automatic Adjustment Program sets the data for adjustment before the adjustment starts. Accordingly, if the adjustment terminates by an error, the data during the adjustment may be left in the camera.

Note 1: With this data left in the camera, the camera will not operate normally.

In this case, the Release Data Setting button is displayed in "red" on the screen as shown figures below. Click the Release Data Setting button to cancel the data setting. When the data setting is cancelled, the button color becomes "white".

Note 2: When "Data Save Error" occurred, the Release Data Setting button is displayed in "white".

> To cancel the data setting, perform it on the SeusEX Operation screen. How to cancel the data setting is displayed in the error message.

Video System Adjustment screen

🐃 Automatic Adjustment for DSC-H50		×
VIDEO SYSTEM ADJUSTMENT	To Menu	
Composite Video Level Adjustment Preparation Start		
Component Video Level Adjustment		
Preparation Start		
Release Data Setting	Reboot	

Camera System Adjustment screen

🖌 Automatic Adjustmen	t for DSC-H50	×
CAMERA SYSTE	EM ADJUSTMENT	To Menu
⊢CAMERA Adjustme	ent 1 (HALL Adj.)	
Preparation	Start	
- CAMERA Adjustme	nt 2 (Wide Limit Adi)	
Preparation	Start	
Treparation	Start	
CAMERA Adjustme	ent 3 (FB Adj.)	
Preparation	Start	
CAMERA Adjustme	ent4 (FB Check)	
Preparation	Start	
- CAMERA Adjustme (Light Falloff Balar	ent 5 nce Adj.)	
Preparation	Start	
CAMERA Adjustme	ent6 (FNo.etc.)	
Preparation	Start	
CAMERA Adjustme	ent 7 (AWB Adj. etc.)	
Preparation	Start	
CAMERA Adjustme	ent 8 (Strobe Adj.)	
Preparation	Start	
CAMERA Adjustme	ent9 (AFLED Check) —	Release
Preparation	Start	Setting
- CAMERA Adjustme	ent 10 (Gyro Adj.)	
Preparation	Start	Reboot

6-2. SERVICE MODE

2-1. APPLICATION FOR ADJUSTMENT (SeusEX)

The adjustment software (SeusEX) can change operational coefficients of signal processing, EVR data, etc. same as the adjustment remote commander. The SeusEX performs two-way communication between PC and camera using the USB terminal. The twoway communication result data can be written in the nonvolatile memory.

1. Connection

- 1) Connect the HASP key to the USB terminal of the PC.
- 2) Connect the PC and camera with the USB cable.
- 3) Start the SeusEX on the PC.
- 4) Click Connect on the SeusEX screen. If the connection is normal, the SeusEX screen will be as shown in Fig. 6-2-1, indicating the "connected" state.
 - **Note:** The SeusEX will go in "disconnect" state, if the camera is turned off (for instance, by resetting the set). In such a case, click <u>Connect</u> on the SeusEX screen to restore the "connected" state.





2. Operation

• Block change

To change the block, click **Block** on the SeusEX screen and enter the block to be changed. The block is displayed in hexa-decimal notation.

• Page change

To change the page, click Page on the SeusEX screen and enter the page to be changed. The page is displayed in hexadecimal notation.

Address change

To change the address, click Address on the SeusEX screen and enter the address to be changed. The address is displayed in hexadecimal notation.

• Data change

To change the data, click <u>Set</u> on the SeusEX screen and enter the data. The data is displayed in hexadecimal notation. This operation does not write the data to the nonvolatile memory.

• Data writing

To write the data to the EEPROM, click Write on the SeusEX screen and enter the data value to be written. To write the data to the flash memory, change the data value using the [Set] on the SeusEX screen and then click [Save] to

• Data reading

save the data.

The data displayed on the SeusEX screen are the data values at the time when the pages and addresses were set, and they are not updated automatically. To check the data change, click Read on the SeusEX screen and update the displayed data.

2-2. SERVICE MODE

1. Function of Each Button on Service Mode Screen

Click the SERVICE MODE button on the Main Menu screen, and the "SERVICE MODE" screen in Fig. 6-2-2 will appear.





- (1) To Menu button Return to the main menu.
- (2) Switch Check button "SWITCH CHECK" screen appears.
- (3) <u>LED Check</u> button "LED CHECK" screen appears.
- (a) [Record Data] button
 "RECORD DATA" screen appears.
- (5) Aging button"AGING" screen appears.

2. Switch Check

Click the Switch Check button on the SERVICE MODE screen, and the "SWITCH CHECK" screen will appear.

🗃 Switch	Check						×
SWI	тсн сн	IECK					Тор
Switch S	Status (A / D) Key) ———					Wheel Dial
	Level 0	Level 1	Level 2	Level 3	Level 4	Level 5	
AD0 ()	Auto	Program Auto	Shutter Speed	Apertuer Priority	Manual	Movie	
AD1 ()	Easy	High Sensitivity	Smile Shutter	Portrait	ADV. Sports	SCN	
AD2 ()	SLIDE	UP	Right	Down	Left	Set	Switch Status (Other Key)
AD3 ()	FINDER LCD	Metering	BRK				MEMORY_STICK_IN
AD4 ()	WIDE Fast	WIDE Slow	TELE Fast	TELE Slow	Menu	Home	Start
Ready to se	erve.						

Using method:

Click the Start button, and the switch check will start.

During execution of switch check, the pressed switch is displayed in orange. Also, once the switch was pressed, its name characters change to blue in color.

Switch	Check						×
swi	тсн сн	IECK					<u>I</u> op
Switch 9	Status (A / D) Key) ——					Wheel Dial
	Level 0	Level 1	Level 2	Level 3	Level 4	Level 5	
AD0 (3FF)	Auto	Program Auto	Shutter Speed	Apertuer Priority	Manual	Movie	COUNTER
AD1 (12D)	Easy	High Sensitivity	Smile Shutter	Portrait	ADV. Sports	SCN	
AD2 (3EE)	SLIDE	UP	Right	Down	Left	Set	Switch Status (Other Key)
AD3 (3FF)	FINDER LCD	Metering	BRK				MEMORY_STICK_IN
AD4 (3FF)	WIDE Fast	WIDE Slow	TELE Fast	TELE Slow	Menu	Home	Stop
Scanning							

3. LED Check

Click the LED Check button on the SERVICE MODE screen, and the "LED CHECK" screen will appear.

🐂 LED Check		×
LED CHECK		Top
		Tob
Control		
	LED OFF	
	LED <u>O</u> N	
	LED OFF AGAIN	
* Controlloble LED		
Power LED, Access L	ED, AF illuminator	
Ready to serve.		

Using method:

LED ON or OFF can be controlled with LED ON or LED OFF button on the screen.

4. Record Data

Click the **Record Data** button on the SERVICE MODE screen, and the "RECORD DATA" screen will appear.

🖷 Record Data	x
RECORD DATA	Тор
Lifetime Counter	
Shot Count : 5	Clear Shot Count
Ready to serve	

The record data such as Lifetime counter is displayed.

Initializing method:

Click the Clear Shot Count button on the screen, and the Lifetime Count data will be initialized.

5. Aging

On the AGING screen, various types of aging can be executed. Select the type of aging to be executed with the Aging Mode Select buttons.



Supply the power not from an AC adapter but from the fully charged battery and execute the aging until the battery end, so that its battery use time and how many pictures the camera can record/play back can be checked.

During the execution of aging, the camera automatically repeats recording/playback.

During the recording, if the recording memory capacity becomes full, its memory is automatically formatted.

Accordingly, when executing the aging, insert the Memory Stick into the camera.

[Preparation]

For the aging, set the camera as follows:

Switch Setting:

- 1) Mode Dial Auto Adjustment
- 2) Flash button Auto

Home Items

1) AF Mode (Settings – Shooting Settings – Shooting Settings 1).... Single

Menu Items

1) REC ModeNormal

(1) 10MODE

In the 10MODE, perform continuous recording in accordance with the CIPA Standard. When the 10MODE starts, the following operation is repeated until the battery end.

- 1) The zoom moves to the TELE end.
- 2) The camera records a still picture with a strobe light flashed at the maximum level.
- 3) The camera stands by for the time (sec.) set to the "Rec Interval".
- 4) The zoom moves to the WIDE end.
- 5) The camera records a still picture without flashing a strobe light.
- 6) The camera stands by for the time (sec.) set to the "Rec Interval".
- 7) Each time 10 still pictures are recorded, the power is turned off, and after the time (min.) set to the "Power Off Interval", the power is turned on again.

At the start of 10MODE, the counter in the camera is initialized. This counter counts the number of recording times during the execution of 10MODE, and it holds the counts even during the power off. 10MODE screen and functions of each item



- Preparation button Notes for aging is displayed.
- ② Rec Interval setting and display The setting of recording interval (sec.) is displayed. The setting can be changed by entering a numeric value in this field.
- ③ Power Off Interval setting and display The setting of neuron off interval (min) is diapl

The setting of power off interval (min.) is displayed. The setting can be changed by entering a numeric value in this field.

(4 START] button

The settings of parameters specified by the Rec Interval and Power Off Interval for execution of 10MODE are sent to the camera.

The 10MODE starts when the camera power is turned off once and then on again.

The settings for execution of 10MODE are held until the camera detects the battery end. They cannot be reset by the power off or RESET button. To interrupt the 10MODE, use the <u>STOP</u> button.

5 STOP button

The settings for execution of 10MODE are reset.

6 GET button

After the 10MODE was executed, the number of recording times is got from the counter in the camera. The result is displayed in the "Count" display field.

Count display

The number of recording times got by the GET button is displayed.

(2) AGING_REC

In the AGING_REC mode, still pictures are continuously recorded at the interval (sec.) set to the "Rec Interval".

At the start of AGING_REC, the counter in the camera is initialized. This counter counts the number of recording times during the execution of AGING_REC, and it holds the counts even during the power off.

AGING_REC screen and functions of each item



 Preparation button Notes for aging is displayed.

② Rec Interval setting and display The setting of recording interval (sec.) is displayed. The setting can be changed by entering a numeric value in this field.

③ START button

The AGING_REC starts. In the AGING_REC mode, the aging starts immediately when the <u>START</u> button is clicked. At the battery end, the AGING_REC stops. To interrupt the AGING_REC, use the <u>STOP</u> button, though the AGING_REC stops also by the power off or RESET button.

- (4) [STOP] button The AGING_REC stops.
- (5) GET button

After the AGING_REC was executed, the number of recording times is got from the counter in the camera. The result is displayed in the "Count" display field.

6 Count display

The number of recording times got by the **GET** button is displayed.

(3) AGING_MREC

In the AGING_MREC mode, motion pictures are continuously recorded for the time (sec.) set to the "Rec Time" at the interval (sec.) set to the "Rec Interval".

At the start of AGING_MREC, the counter in the camera is initialized. This counter counts the number of recording times during the execution of AGING_MREC, and it holds the counts even during the power off.

AGING_MREC screen and functions of each item



- Preparation button Notes for aging is displayed.
- ② Rec Time setting and display The setting of recording time (sec.) is displayed. The setting can be changed by entering a numeric value in this field.
- ③ Rec Interval setting and display The setting of recording interval (sec.) is displayed. The setting can be changed by entering a numeric value in this field.
- (4) **START** button

The AGING_MREC starts. In the AGING_MREC mode, the aging starts immediately when the <u>START</u> button is clicked. At the battery end, the AGING_MREC stops. To interrupt the AGING_MREC, use the <u>STOP</u> button, though the AGING_MREC stops also by the power off or RESET button.

- (5) STOP button The AGING_MREC stops.
- 6 GET button

After the AGING_MREC was executed, the number of recording times is got from the counter in the camera. The result is displayed in the "Count" display field.

⑦ Count display

The number of recording times got by the GET button is displayed.

(4) AGING_PB

In the AGING_PB mode, pictures are continuously played back at the interval (sec.) set to the "Play Back Interval".

At the start of AGING_PB, the counter in the camera is initialized. This counter counts the number of play back times during the execution of AGING_PB, and it holds the counts even during the power off.





- Preparation button Notes for aging is displayed.
- ② Play Back Interval setting and display The setting of play back interval (sec.) is displayed. The setting can be changed by entering a numeric value in this field.
- (3) START button
 The ACING, DD starts in the ACING, DD mode, the spine

The AGING_PB starts. In the AGING_PB mode, the aging starts immediately when the <u>START</u> button is clicked. At the battery end, the AGING_PB stops. To interrupt the AGING_PB, use the <u>STOP</u> button, though the AGING_PB stops also by the power off or RESET button.

- (4) **STOP** button The AGING_PB stops.
- 5 GET button

After the AGING_PB was executed, the number of play back times is got from the counter in the camera. The result is displayed in the "Count" display field.

6 Count display

The number of play back times got by the GET button is displayed.

2-3. DATA BACKUP

With the "DATA BACKUP", the adjustment data in the camera can be backed up in the PC as a file.

The adjustment data that can be backed up are as follows.

System Control Section:

- 1) Video System Adjustments
- 2) LCD System Adjustments

Camera Control Section:

1) Camera System Adjustments

1. Function of Each Button on Data Backup Screen

Click the **DATA BACKUP** button on the Main Menu screen, and the "DATA BACKUP" screen in Fig. 6-2-3 will appear.





- (1) <u>To Menu</u> button Return to the main menu.
- 2 Data Read and Save button

Read the adjustment data from the camera and save them in PC as a file.

Default file name is as follows:

DSC-H50_ADJBAK_xxxxxxx_yyyymmdd.dat



③ Data Load and Write button Load the adjustment data from the file saved in PC and write them to the camera.

Revision History

Ver.	Date	History	Contents	S.M. Rev. issued
1.0	2008.04	Official Release		
1.1	2008.05	Revised-1 (A1 DI08-054)	 Replacement of the previously issued SER-VICE MANUAL 9-852-286-51 with this Manual. Change of Automatic Adjustment Program Version of Automatic Adjustment Program has been changed from Ver_1.0r01 to Ver_1.1r02. Addition of Thai Model S.M. revised: Page 6-8, Page 6-10 	Yes
1.2	2008.06	Revised-2 (A2 DI08-108)	 Replacement of the previously issued SER-VICE MANUAL 9-852-286-52 with this Manual. Change of Automatic Adjustment Program Version of Automatic Adjustment Program has been changed from Ver_1.1r02 to Ver_1.2r03. Correction of Destination Data Write S.M. revised: Page 6-8 	Yes
1.3	2008.09	Revised-3 (A3 DI08-258)	 Replacement of the previously issued SER-VICE MANUAL 9-852-286-53 with this Manual. Change of Automatic Adjustment Program Version of Automatic Adjustment Program has been changed from Ver_1.2r03 to Ver_1.3r04. Correction of the "Setting of Adjustment Mode" S.M. revised: Page 6-8, Page 6-9 	Yes
1.4	2009.06	Revised-4 (A4 09-078)	 Replacement of the previously issued SER-VICE MANUAL 9-852-286-54 with this Manual. Change of Automatic Adjustment Program Version of Automatic Adjustment Program has been changed from Ver_1.3r04 to Ver_1.4r05. Automatic Adjustment Program compatibility on Windows Vista S.M. revised: Page 6-2, Page 6-3, Page 6-4, Page 6-8 	Yes