FUJIFILM

DIGITAL CAMERA

FinePix S5000

SERVICE MANUAL

US/EU/EG/CA/GE/AS-Model

⚠ WARNING

- THE COMPORNENTS IDENTIFIED BY THE MARK " ⚠ " ON THE SCHEMATHIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR SAFETY.
  PLEASE REPLACE ONLY BY THE COMPONENTS SPECIFIED ON THE SCHEMATHIC DIAGRAM AND IN THE PARTS LIST.
- IF YOU USE WITH PART NUMBER UN-SPECIFIED, IT MAY RESULT IN A FIRE AND AN ELECTORICAL SHOCK.

FUJI PHOTO FILM CO.,LTD.

Ref.No.:ZM00509-100

Printed in Japan 2003.07(S.S.)

SAFETY CHECK-OUT

After correcting the original problem, perform the following safety check before return the product to the costomer.

1. Check the area of your repair for unsoldered or poorly sol dered connections. Check the entire board surface for solder splasher 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 tran sistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.

4. Look for parts which, though 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. Make leakage - current measurements to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

7. **CAUTION:** FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE 2.5 AMPERES 125V FUSE.

RISK OF FIRE-
REPLACE FUSE
AS MARKED

ATTENTION: AFIN D'ASSURER UNEPROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE, REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME, TYPE 2.5 AMPERES, 125 VOLTS.

8.

WARNING!
HIGH VOLTAGE

WARNING:
TO REDUCE THE ELECTRIC SHOCK, BE CAREFUL TO TOUCH THE PARTS.

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1.General

1-1. Product specification

System

Model	Digital camera FinePix S5000
Number of effective pixels	3.1 million pixels
CCD sensor	1/2.7 inch Super CCD HR in an interwoven pattern Number of total pixels 3.14 million pixels
Number of recorded pixels	Still image : 2816 × 2120 pixels/2048 × 1536 pixels/1600 × 1200 pixels/ 1280 × 960 pixels (6M/3M/2M/1M) Movie : 320 × 240 pixels (30 frames per second with monaural sound)
Storage media	xD-Picture Card (16/32/64/128/256/512 MB)
File format	Still image : Compressed : JPEG (Exif ver. 2.2) Uncompressed : CCD-RAW (RAF) * Design rule for Camera File System compliant DPOF compatible Movie : AVI format, Motion JPEG Audio : WAVE format, Monaural sound
Lens	Fujinon 10× optical zoom lens Aperture : F2.8 to F8 (Wide-angle) F3.2 to F9 (Telephoto)
Aperture	F2.8 to F8 10 steps in 1/3-EV increments Manual/Auto selectable
Focal length	f=5.7 mm to 57 mm (Equivalent to 37 mm to 370 mm on a 35 mm camera)
Focal range	Normal : Wide-angle : Approx. 0.9 m (3.0 ft.) to infinity Telephoto : Approx. 2.0 m (6.6 ft.) to infinity Macro : Wide-angle : Approx. 0.1 m to 2.0 m (0.3 ft. to 6.6 ft.) Telephoto : Approx. 0.9 m to 2.0 m (3.0 ft. to 6.6 ft.)
Shutter speed	Auto : 2 sec. to 1/2000 sec. Manual : 2 sec. to 1/2000 sec.
Focus	TTL contrast-type, Auto focus, Manual focus
Sensitivity	Manual : Equivalent to ISO200/400/800 (Image quality fixed at 1M for shots taken at ISO 800.) Auto : Equivalent to ISO160-200 (at flash off) Equivalent to ISO200-400 (at flash on)
Photometry	TTL 64-zones metering Multi, Spot, Average
Exposure control	Program AE (AUTO, P, SP), Shutter-priority AE, Aperture-priority AE, Manual exposure
Exposure compensation	-2.0 EV to +2.0 EV in 1/3 EV step increments (in Manual mode)
White balance	AUTO (AUTO, SP) Manual modes, 7 positions can be selected
Viewfinder	0.33 inches 114,000 pixels electronic viewfinder
LCD monitor	1.5-inches, low-temperature polysilicon TFT 114,000 pixels, 90% coverage
Flash	Auto flash using flash control sensor Effective range : Wide-angle : Approx. 0.3 m to 6.0 m (1.0 ft. to 19.7 ft.) (Approx. 0.3 m to 2.0 m (1.0 ft. to 6.6 ft.) : Macro) Telephoto : Approx. 0.8 m to 5.5 m (2.6 ft. to 18.0 ft.) Flash modes : Auto, Red-eye reduction, Forced flash, Suppressed flash, Slow synchro, Red-eye reduction + Slow synchro
Self-Timer	10 sec.
A/V output	NTSC/PAL selectable

Input/Output Terminals

A/V output socket	2.5 mm dia. jack
⇐ (USB) socket	For file transfer to a computer
DC Input	Socket for specified AC power adapter AC-5VH/AC-5VHS (sold separately)

Power Supply and Others

Power supply

Use one of the following :
- 4× AA-size alkaline batteries
- 4× AA-size Ni-MH (Nickel-Metal Hydride) batteries (sold separately)
- AC Power Adapter AC-5VH/AC-5VHS (sold separately)

Guide to the number of available frames for battery operation

Battery Type	With LCD monitor ON	With viewfinder (EVF) ON
Alkaline batteries	Approx. 260 frames	Approx. 270 frames
Ni-MH batteries 2100 mAh	Approx. 420 frames	Approx. 440 frames

The number of available shots for battery operation given here is a guide to the number of consecutive shots that can be taken under FUJIFILM test conditions.
- Batteries used : Using the alkaline batteries bundled with the camera
  Using Ni-MH batteries at full charge
- Shooting conditions : Measured at normal temperature with 50% flash use
- Note : The number of available shots varies depending on the capacity of the alkaline batteries and the amount of charge in the Ni-MH batteries. Consequently, FUJIFILM makes no guarantee with regard to the numbers of available shots for battery operation given here. Note that the number of available shots will be lower at low temperatures.

Conditions for use
Temperature : 0°C to +40°C (+32°F to +104°F) ; 80% humidity or less (no condensation)

Camera dimensions (W×H×D)
112.7 mm × 81.1 mm × 79.3 mm/4.4 in. × 3.2 in. × 3.1 in.
(not including accessories and attachments)

Camera mass (weight)
Approx. 337 g/11.9 oz. (not including accessories, batteries and xD-Picture Card)

Weight for photography
Approx. 479 g/16.9 oz. (including batteries and xD-Picture Card)

Accessories
- LR6 AA-size alkaline batteries (4)
- 16 MB, xD-Picture Card (1) included with : Anti-static case (1)
- Shoulder strap (1) ● Adapter Ring : AR-FX5 (1) ● Lens Cap (1)
- A/V Cable for FinePix S5000
  (approx. 1.5 m (4.9 ft.), plug (2.5 mm dia.) to pin-plug cable ×2) (1)
- USB cable (Mini-B) (1) ● CD-ROM : Software for FinePix SX (1)
- Owner's Manual (1)

Optional Accessories
- xD-Picture Card
  DPC-16 (16 MB)/DPC-32 (32 MB)/DPC-64 (64 MB)/DPC-128 (128 MB)/
  DPC-256 (256 MB)/DPC-512 (512 MB)
- Fujifilm Rechargeable Battery 2HR-3UF (2×)
- Fujifilm Battery charger with Battery BK-NH/BK-NH2 (With Euro type or UK type plug)
- AC Power Adapter AC-5VH/AC-5VHS ● Carrying Case SC-FXS5
- Image Memory Card Reader DPC-R1
  - Compatible with Windows 98/98 SE, Windows Me, Windows 2000 Professional, Windows XP or iMac, Mac OS 8.6 to 9.2.2, Mac OS X (10.1.2 to 10.1.5) and models that support USB as standard.
  - Compatible with xD-Picture Card of 16 MB to 512 MB, and SmartMedia of 3.3V, 4 MB to 128 MB.
- PC Card Adapter DPC-AD
  - Compatible with xD-Picture Card of 16 MB to 512 MB, and SmartMedia of 3.3V, 2 MB to 128 MB.
- CompactFlash Card Adapter DPC-CF
  - Windows 95/98/98 SE/Me/2000 Professional/XP
  - Mac OS 8.6 to 9.2.2/X (10.1.2 to 10.1.5)

■ Standard number of available frames /recording time per xD-Picture Card

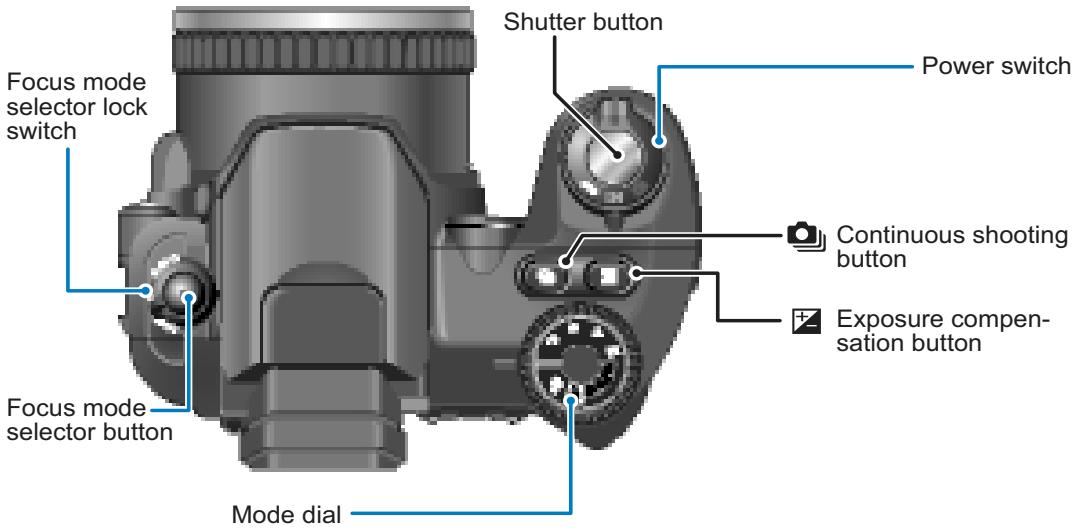
The number of available shots, recording time or file size varies slightly depending on the subjects photographed. Note also that the divergence between standard number of available shots and the actual number of available shots is greater for xD-Picture Cards with higher capacities.

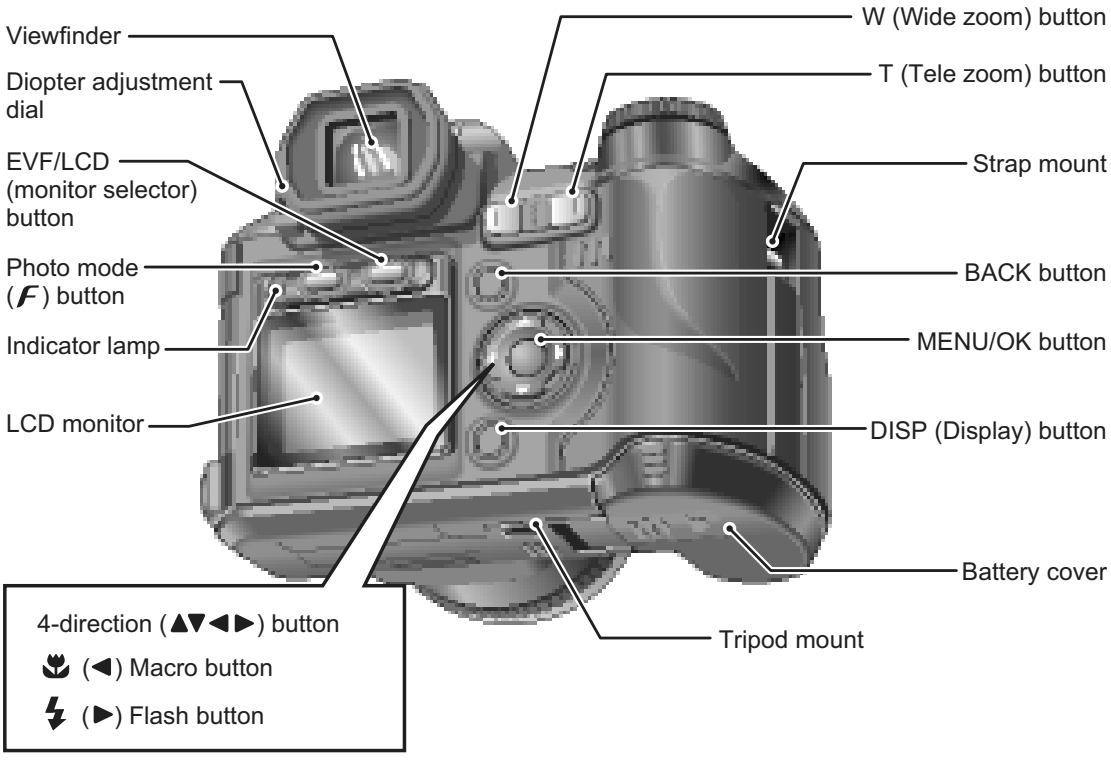
Quality mode	6M	3M	2M	1M	CCD-RAW	Movie 320
Number of recorded pixels	2816 × 2120	2048 × 1536	1600 × 1200	1280 × 960	2816 × 2120	320 × 240
Image Data Size	1.5 MB	780 KB	630 KB	470 KB	6.7 MB	–
DPC-16 (16 MB)	10	19	25	33	2	26 sec.
DPC-32 (32 MB)	21	40	50	68	4	54 sec.
DPC-64 (64 MB)	43	81	101	137	9	109 sec.
DPC-128 (128 MB)	86	162	204	275	18	219 sec.
DPC-256 (256 MB)	173	325	409	550	37	7.3 min.
DPC-512 (512 MB)	347	651	818	1101	75	14.6 min.

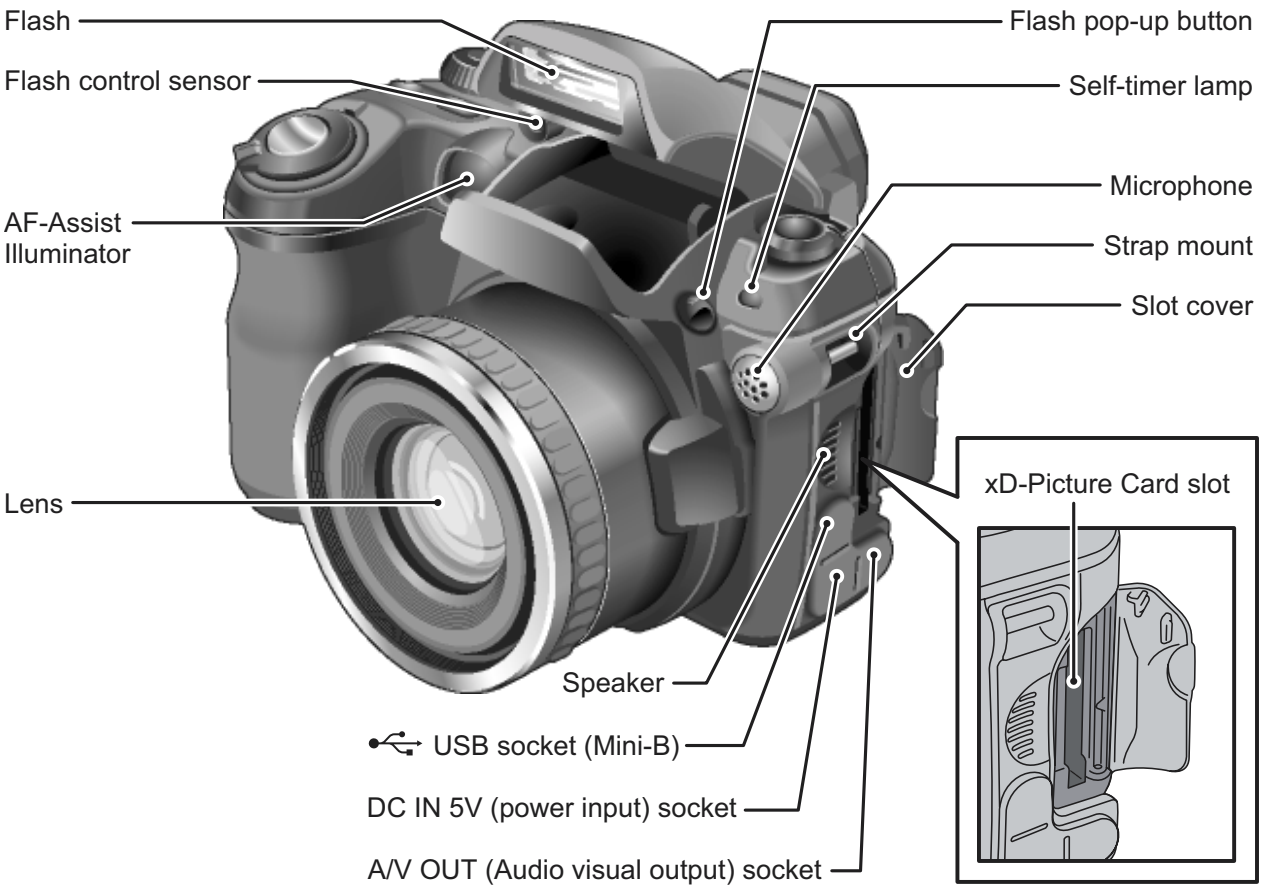
Explanation of Terms

AF/AE Lock :	On the FinePix S5000, pressing the shutter button down half way locks the focus and exposure settings (AF and AE lock). If you want to focus on a subject that is not centered in the frame or change the picture composition after the exposure is set, you can obtain good results by changing the composition after the AF and AE settings are locked.
Auto Power Save Function :	If the camera is not used in any way for 30 seconds, this function switches features such as the monitor off (Sleep mode) to prevent battery depletion and the waste of power when the AC power adapter is connected. If the camera is then left unused for a further period, the Auto Power Save function switches the camera off. This period can be set to 2 minutes or 5 minutes on this camera. ● The Auto Power Off function does not operate in PC mode, during automatic playback, or if it is disabled during setup.
Deactivated batteries:	Leaving an Ni-MH battery unused in storage for a long period may cause a rise in the level of substances that inhibit current flow inside the battery and result in a dormant battery. A battery in this state is referred to as deactivated. Because current flow is inhibited in a deactivated Ni-MH battery, the battery's original level of performance cannot be achieved.
DPOF:	Digital Print Order Format DPOF is a format used for recording information on a storage media (image memory card, etc.) that allows you to specify which of the frames shot using a digital camera are to be printed and how many prints are made of each image.
EV:	A number that denotes Exposure Value. The EV is determined by the brightness of the subject and sensitivity (speed) of the film or CCD. The number is larger for bright subjects and smaller for dark subjects. As the brightness of the subject changes, a digital camera maintains the amount of light hitting the CCD at a constant level by adjusting the aperture and shutter speed. When the amount of light striking the CCD doubles, the EV increases by 1. Likewise, when the light is halved, the EV decreases by 1.
Frame rate (fps) :	The frame rate refers to the number of images (frames) that are photographed or played back per second. For example, when 10 frames are continuously photographed in a 1-second interval, the frame rate is expressed as 10 fps. For reference, TV images are displayed at 30 fps.
JPEG :	Joint Photographics Experts Group A file format used for compressing and saving color images. The higher the compression rate, the greater the loss of quality in the decompressed (restored) image.
Memory effect:	If an Ni-MH battery is repeatedly charged without first being fully discharged, its performance may drop below its original level. This is referred to as the "memory effect".
Motion JPEG:	A type of AVI (Audio Video Interleave) file format that handles images and sound as a single file. Images in the file are recorded in JPEG format. Motion JPEG can be played back by QuickTime 3.0 or later.
PC Card:	A generic term for cards that meet the PC Card Standard.
PC Card Standard:	A standard for PC cards determined by the PCMCIA.
PCMCIA:	Personal Computer Memory Card International Association (US).
Smear :	A phenomenon specific to CCDs whereby white streaks appear on the image when there is a very strong light source, such as the sun or reflected sunlight, in the photography screen.
WAVE :	A standard format used on Windows systems for saving audio data. WAVE files have the ".WAV" file extension and the data can be saved in either compressed or uncompressed format. Uncompressed recording is used on this camera. WAVE files can be played back on a personal computer using the following software: Windows: MediaPlayer Macintosh: QuickTime Player *QuickTime 3.0 or later
White Balance:	Whatever the kind of the light, the human eye adapts to it so that a white object still looks white. On the other hand, devices such as digital cameras see a white subject as white by first adjusting the color balance to suit the color of the ambient light around the subject. This adjustment is called matching the white balance. A function that automatically matches the white balance is called an Automatic White Balance function.
Exif Print:	Exif Print Format is a newly revised digital camera file format that contains a variety of shooting information for optimal printing.

1-2.Names of External Components

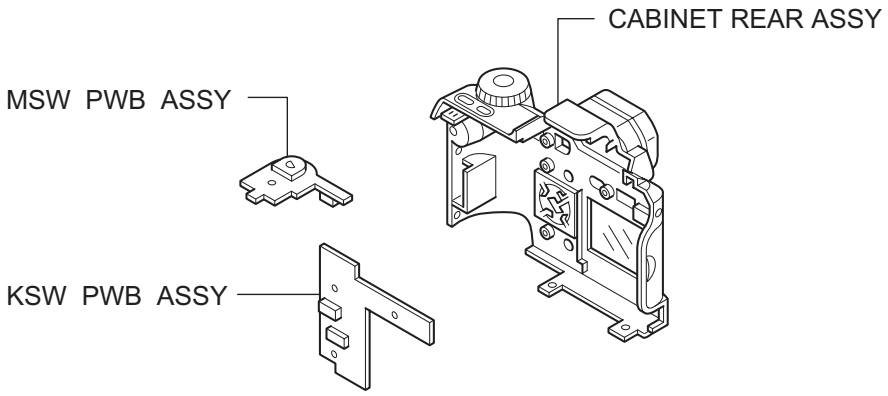


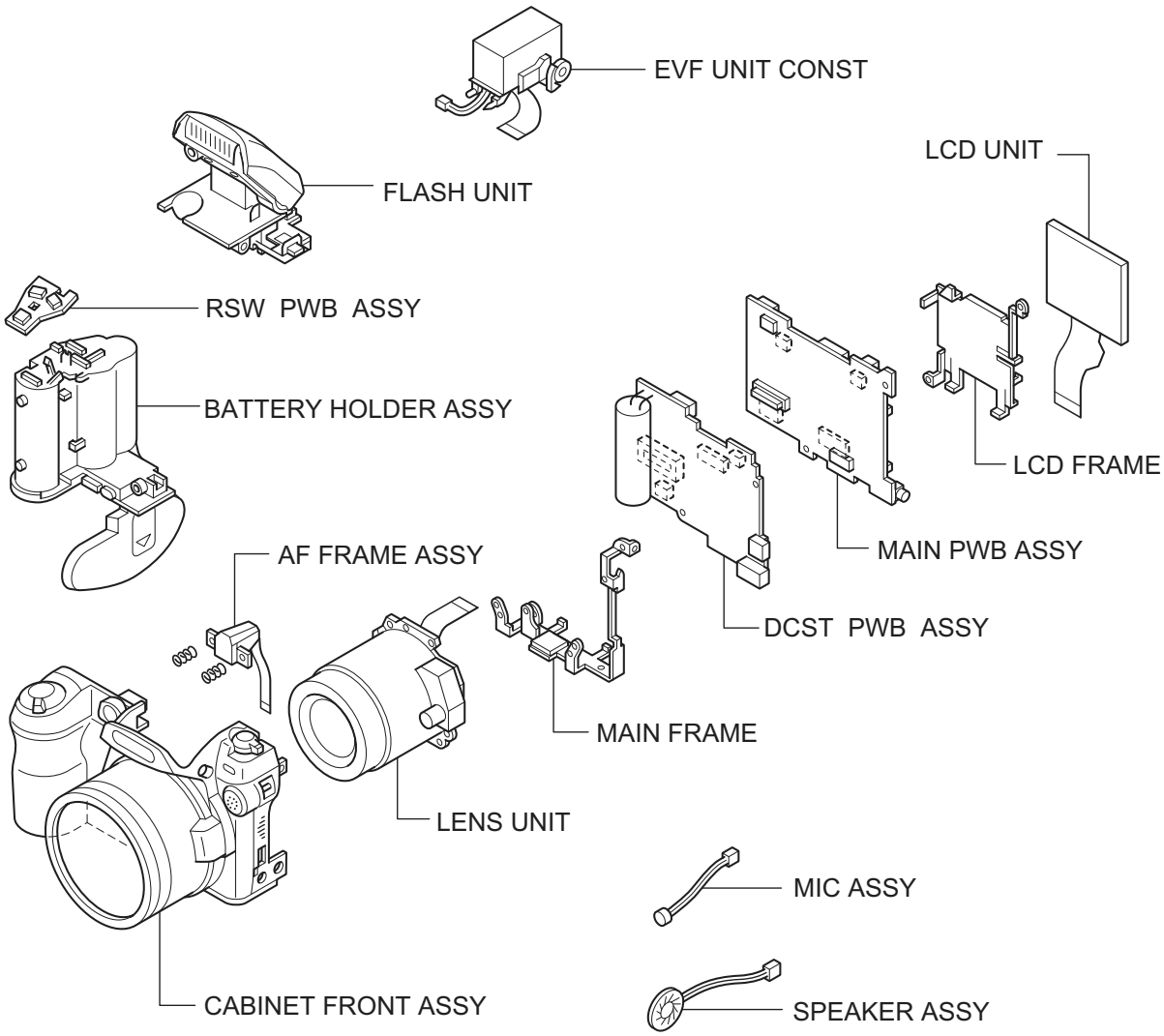



Flash
Flash control sensor
AF-Assist Illuminator
Lens
Flash pop-up button
Self-timer lamp
Microphone
Strap mount
Slot cover
xD-Picture Card slot
Speaker
USB socket (Mini-B)
DC IN 5V (power input) socket
A/V OUT (Audio visual output) socket

2. Disassembly

2-1. Internal Components

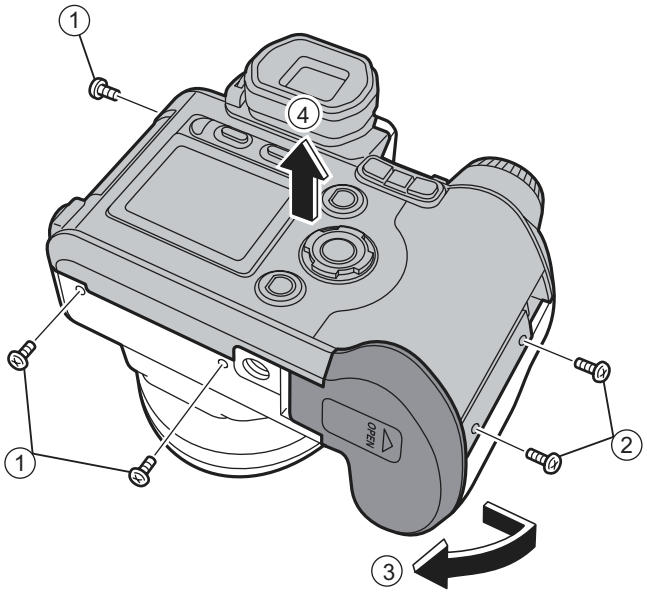


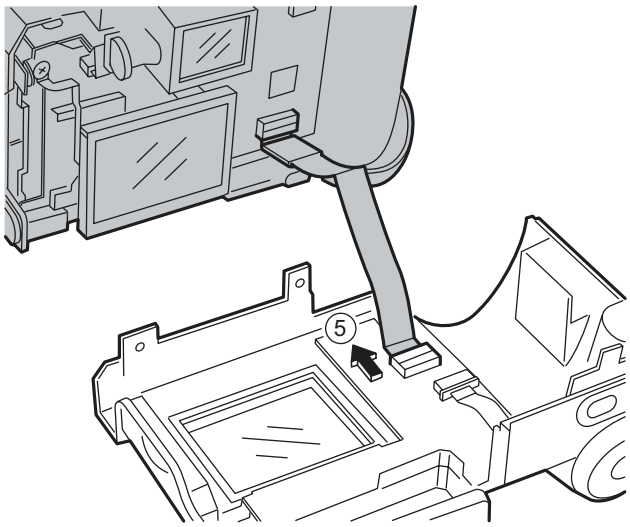


2-2. Removing the R CABINET ASSY

[Disassembly]

1. Remove the three screws(M1.7x3.5).
2. Remove the two screws(M1.7x5).
3. Open the battery cover.
4. Raise the R CABINET ASSY in the direction of the arrow.
5. Remove the FFC.





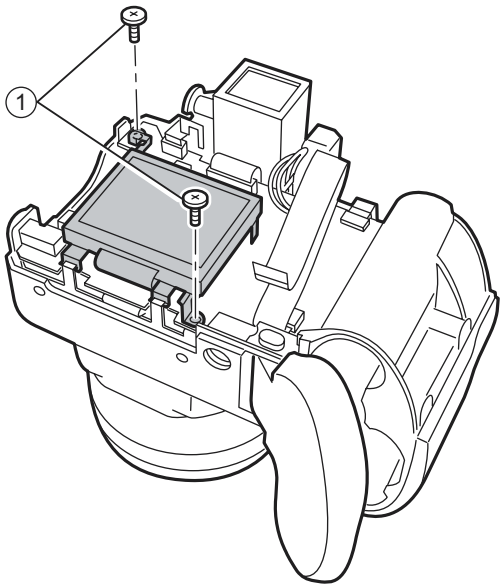
[Assembly]

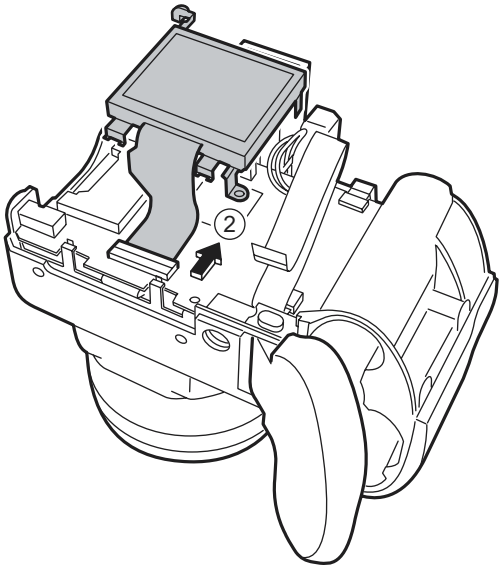
Set the mode dial to the camera position and assemble it.
Assemble in the reverse order to disassembly.

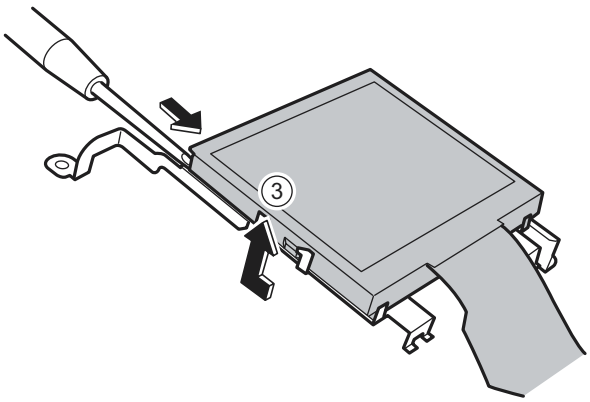
2-3. Removing the LCD UNIT

[Disassembly]

1. Remove the two screws(M1.7x2.5).
2. Remove the connector.
3. Raise the LCD UNIT in the direction of the arrow.







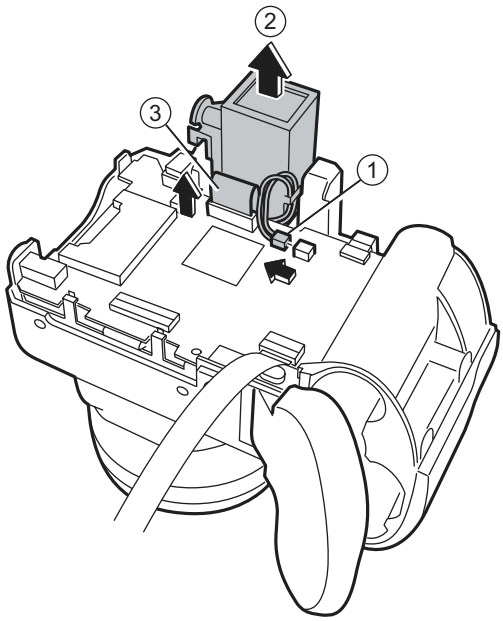
[Assembly]

Assemble in the reverse order to disassembly.

2-4. Removing the EVF UNIT

[Disassembly]

1. Remove the connector.
2. Raise the EVF UNIT in the direction of the arrow.
3. Remove the FFC



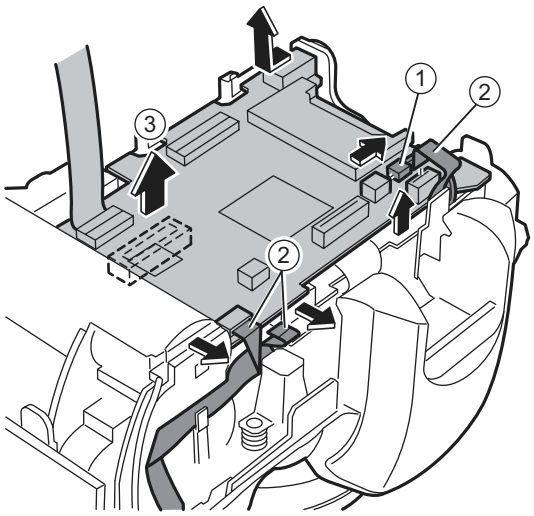
[Assembly]

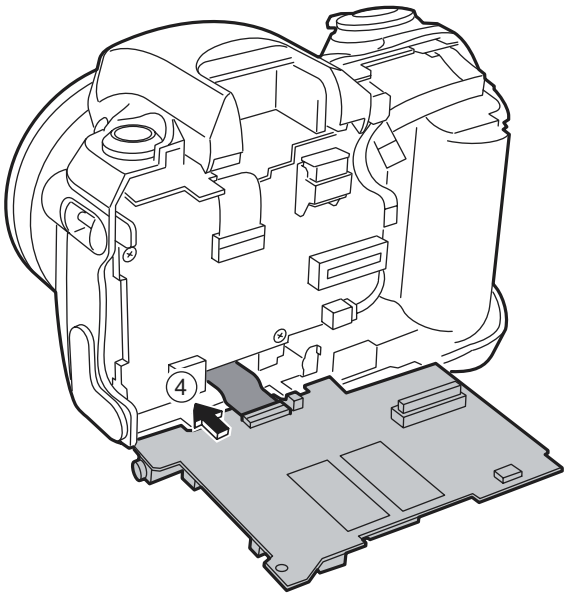
Assemble in the reverse order to disassembly.

2-5. Removing the MAIN PWB ASSY

[Disassembly]

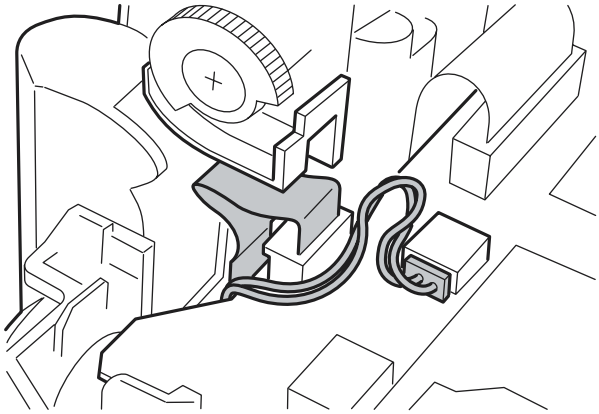
1. Remove the connector.
2. Remove the three FFCs.
3. Raise the NAIN PWB in the direction of the arrow.
4. Remove the FFC.





[Assembly]

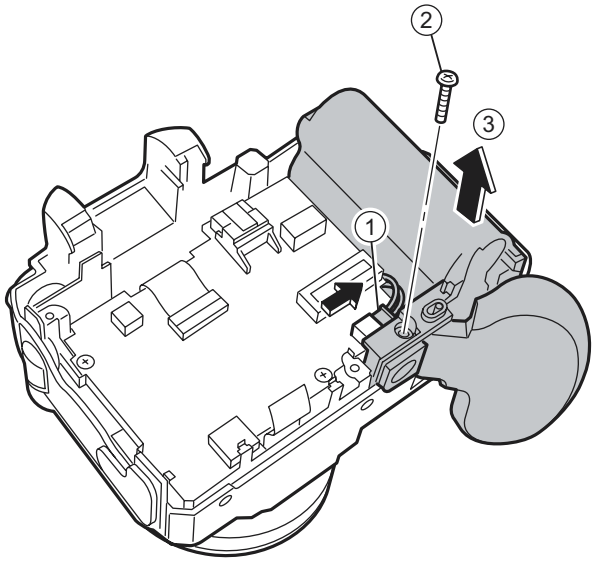
Make the style of FFC and the lead wire as shown in figure below.

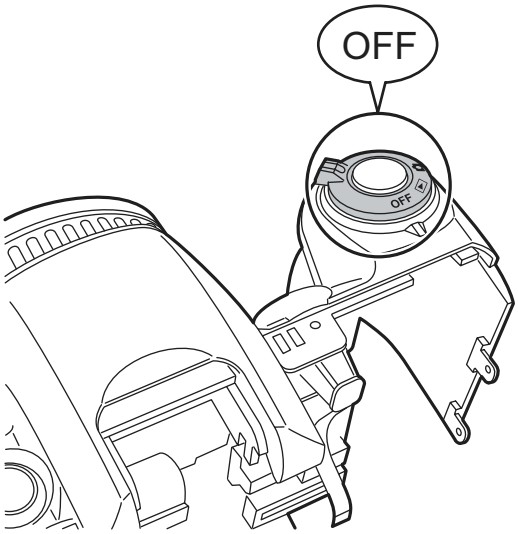


2-6. Removing the BATTERY HOLDER ASSY

[Disassembly]

1. Remove the connector.
2. Remove the screw(M1.7x8.0).
3. Remove the BATTERY HOLDER ASSY in the direction of the arrow.



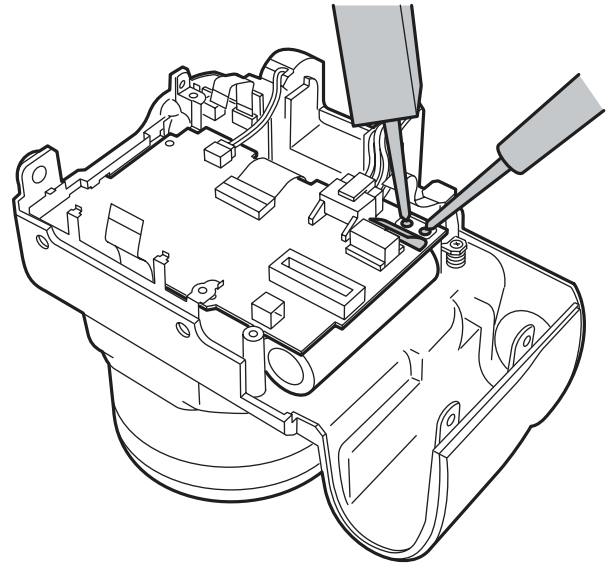


[Assembly]

Set the switch lever to the off position when assembling.

Note:

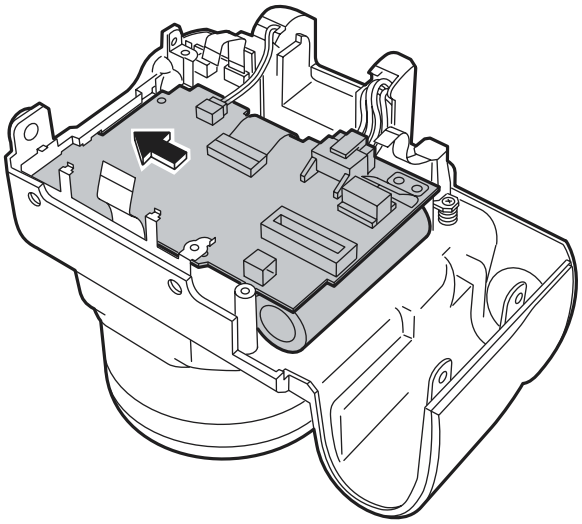
Always ensure that the FLASH ASSY main condenser is discharged before beginning disassembly.

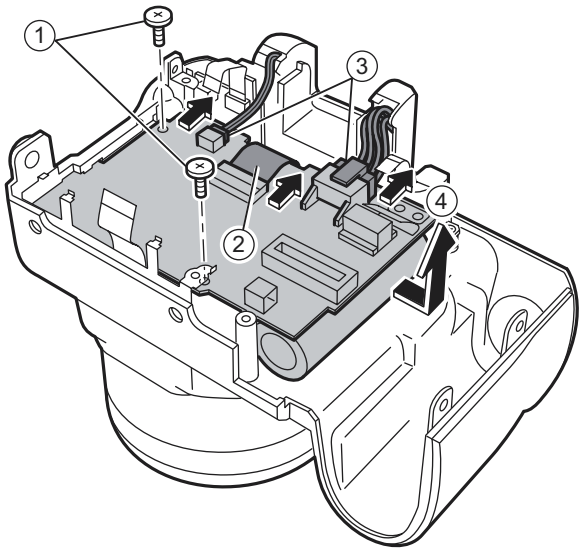


2-7. Removing the DCST PWB Assy

[Disassembly]

1. Remove the two screws(M1.7x2.5).
2. Remove the FFC.
3. Remove the two connectors.
4. Remove the DCST PWB Assy in the direction of the arrow.





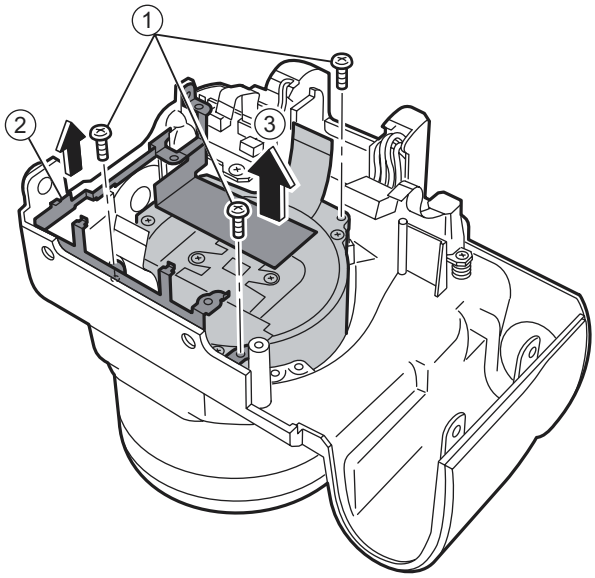
[Assembly]

Put the substrate aside in the direction of the arrow when assembling.

2-8. Removing the Lens Unit

[Disassembly]

1. Remove the three screws(M1.7x8.0).
2. Remove the MAIN FRAME.
3. Remove the Lens Unit in the direction of the arrow.



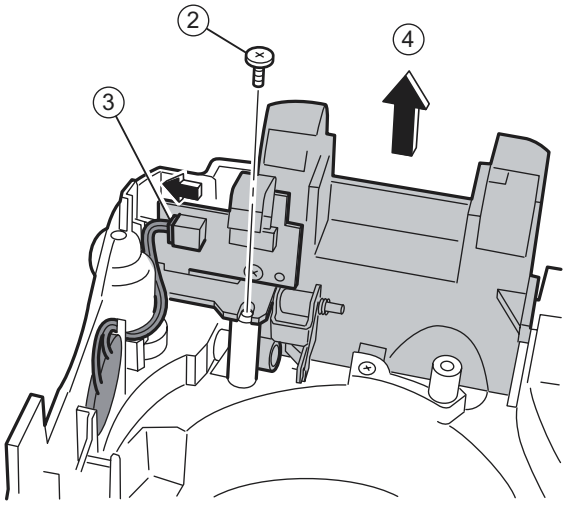
[Assembly]

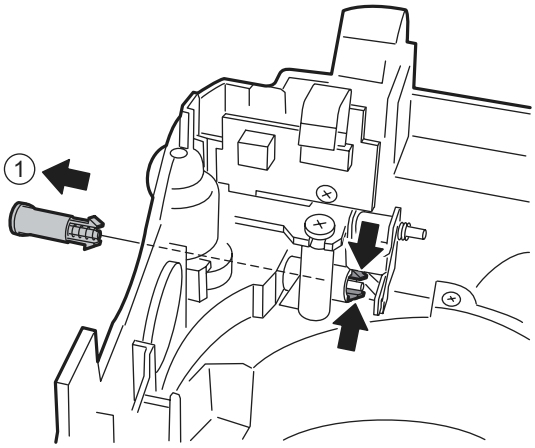
Assemble in the reverse order to disassembly.

2-9. Removing the STROBE CONST

[Disassembly]

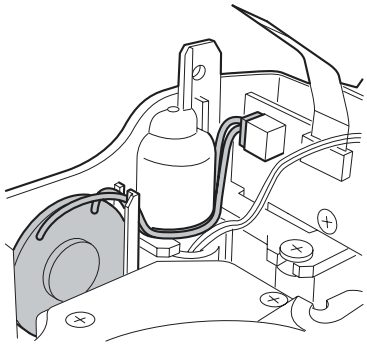
1. Remove the ST-BUTTON.
2. Remove the screw(M1.7x5.5).
3. Remove the connector.
2. Remove in the STROBE CONST direction of the arrow





[Assembly]

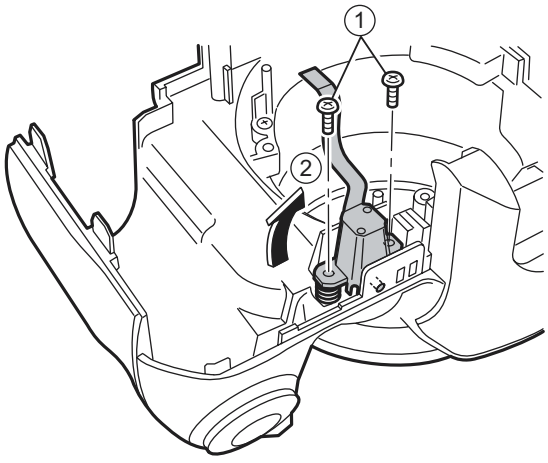
Make read-wire a style as shown in the figure below.
Assemble in the reverse order to disassembly.



2-10. Removing the AF FRAME Assy

[Disassembly]

1. Remove two screws.
2. Remove the AF FRAME Assy in the direction of the arrow.



[Assembly]

Execute the AF-assistance light adjustment after assembling.

3. Schematics

3-1. Cautions

<Cautions when replacing parts>

- Do not reuse removed parts. Always use new parts.
- Note that the -ve side of tantalum condensers is readily damaged by heat.
- Except for chemical condensers and tantalum condensers, voltage is not displayed on condensers with a voltage resistance of 50V or less.
- Resistors not marked are 1/16W chip resistors.
- KW = 1000Ω, MW = 1000KΩ
- B characteristics of variable resistors and semi-fixed resistors are not displayed.

3-2. Basic Block Names and Functions

Part name	Block name	Function
LENS CONST	CCD BLOCK	CCD output
MAIN PWB ASSY	CAMERA BLOCK	CCD output A/D conversion (IC103) CCD driver (IC101,IC102)
	PROCESS BLOCK	Image signal processing, USB communications, system control (IC206)
	LCD/EVF BLOCK	LCD/EVF output control. (IC401)
	AUDIO BLOCK	Audio IN/OUT(IC11)
DCST PWB ASSY	DC/DC BLOCK	Power supply generation (IC501)
	POWER ON BLOCK	Power supply management ,Key function(IC301)
	FLASH BLOCK	Flash charging control (IC602)
	MOTOR BLOCK	Shutter/iris/AF/zoom drive (IC651)
RSW PWB ASSY	RSW BLOCK	Power SW,Shutter SW
KSW PWB ASSY	KEY SWICH BLOCK	Key SW
MSW PWB ASSY	MODE SWICH BLOCK	Mode SW
FLASH UNIT	FLASH BLOCK	Flash

3-3. Functions of Primary Blocks.

3-3-1. Technical Outline

The FinePix S5000 incorporates a 1/2.7 inch Fourth Generation Super CCD HR sensor with 3.1 million effective pixels and a new **signal processing LSI (UCS2, IC206)**. The **signal processing LSI (UCS2, IC206)** is equivalent to the image signal processing IC (UCS, IC204, CSP) incorporated in the previous FinePix F601, however the new IC permits a dramatic reduction in the interval between photography and playback. It offers a newly designed super long 10X optical zoom [37-370mm, f2.8-f8(W)/f3.2-f9(T)]

The S5000 features continuous auto focusing and a low light focus assist lamp. An **[xD picture card]** is adopted as the recording media.

3-3-2. Functions of Individual Blocks

(1) CCD Signal Processing/Picture-taking Blocks (CCD BLOCK and CAMERA BLOCK)

The analog signals output by the CCD (1/2.7 inch Fourth Generation Super CCD HR sensor with 3.1 million effective pixels [IC1]) undergo color compensation, adaptive interpolation, amplification (ACG) and signal mixing in the **[ACS (IC103)]** CCD signal processing IC. After that, the signals are converted into 10-bit digital signals and sent to the system LSI **[UCS2 (IC206)]**. This block has a vertical drive IC (IC101,IC102) for driving the CCD.

(2) Motor Block (MOTOR BLOCK)

Upon receiving commands from operating switches, the **[UCS2 (IC206)]** signal processing LSI manages the motor drive IC (IC651) so as to control the motors for AF, shutter, zoom and iris.

(3) Image Signal Processing Block (PROCESS BLOCK)

Input Data from the CCD

The 10-bit digital image data (equivalent to 1H) output by the image unit (CCD/CAMERA BLOCK) is sent to the system LSI **[UCS2 (IC206)]**. It is here converted into 16-bit data by the internal buffer of the LSI, and image data of 2816 x 2120 pix per frame is temporarily stored in the **[IC204,IC205 DRAM (128 Mbit x2)]** of the LSI.

Also, the 10-bit image data input to this LSI is used for calculations by the [auto calculation unit] and sent to the **[ACS (IC103)]** CCD processing IC of the CAMERA BLOCK so as to obtain a suitable AE, AWB and AF.

Recording to the xD picture card

■ The image data stored in the **[IC204,IC205 DRAM (128 Mbit)]** of the system LSI **[UCS2 (IC206)]** is sent to the signal processing block one line at a time where it undergoes unpack processing (processing required prior to digital clamping, (compensation, 10-bit >> 8-bit R/G/B conversion) and YC processing (8-bit digital R/G/B signal >> Y:Cb:Cr = 4:2:2). The 8-bit Y/Cb/Cr data is then sent to the [internal buffer]. In the [internal buffer], data is arranged in a format that is easy to convert the 8-bit Y/Cb/Cr data into DCT. After going through the [JPEG calculation unit] and the [media controller], it is recorded on the xD card.

Play back from the xD picture card

■ The compressed image data from the xD card is sent to the **[UCS2 (IC206)]** system LSI as 8-bit image data. It is then sent to the [media control unit] >> [DMA unit] >> [IC204,IC205 DRAM (128 Mbit)] >> [media controller] >> [JPEG calculation unit] >> [signal processing unit]. The [signal processing unit] does the post-processing of converting the 8-bit Y/Cb/Cr signals into 8-bit R/G/B signals. At the same time, it weighs the text display signal and displays the text on the LCD UNIT via the [LCD controller]. Camera system adjustment data is stored in the FLASH ROM (IC207).

(4) LCD/EVF UNIT

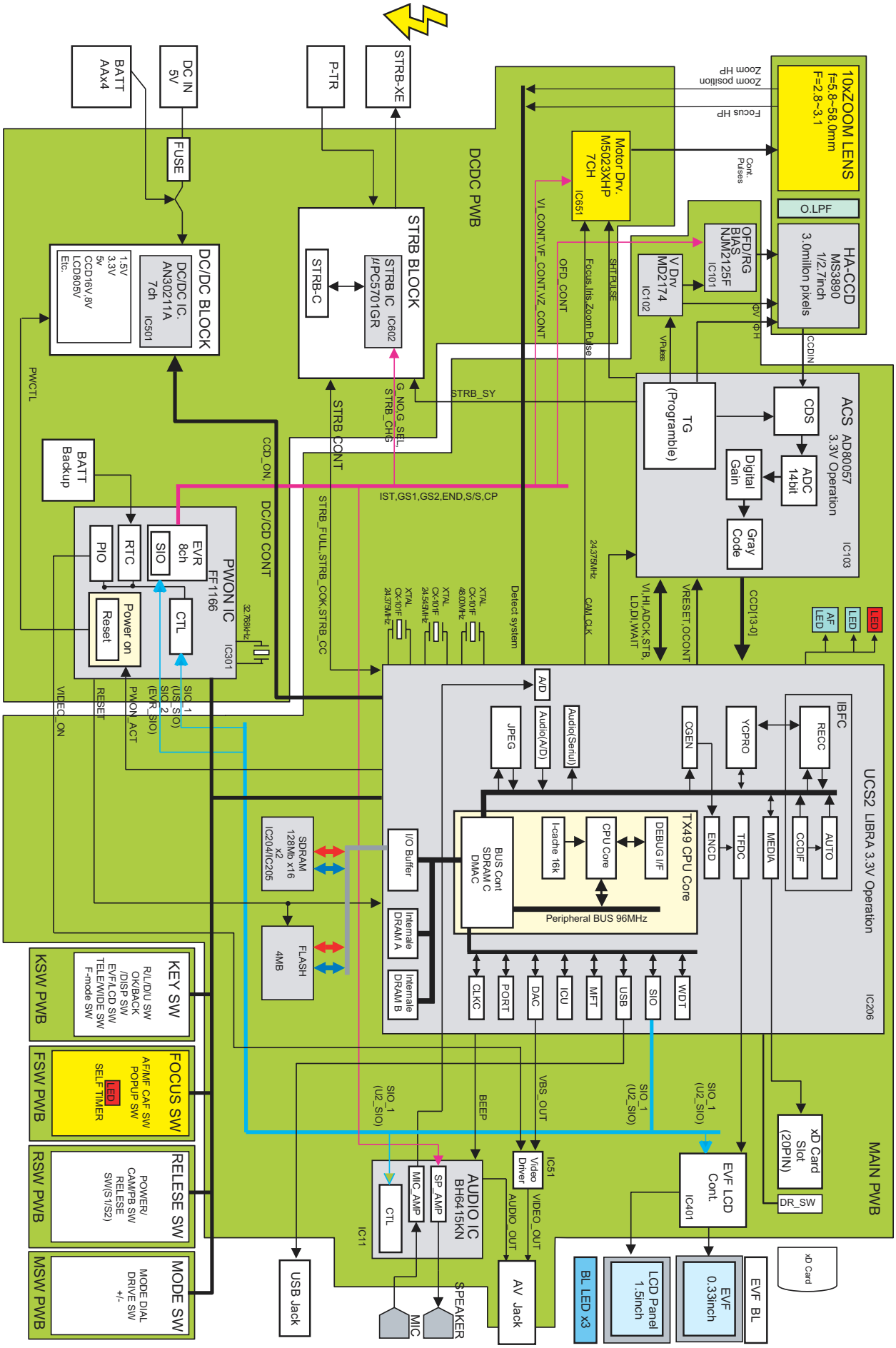
The digital signal sent from the system LSI **[UCS2 (IC206)]** is sent to the drive IC(IC401) of the LCD UNIT via the processing unit on the LCD FPC of the LCD UNIT, where [LCD drive] and [LCD panel tonal control] are performed.

(5) Power Supply Block (DCDC BLOCK)

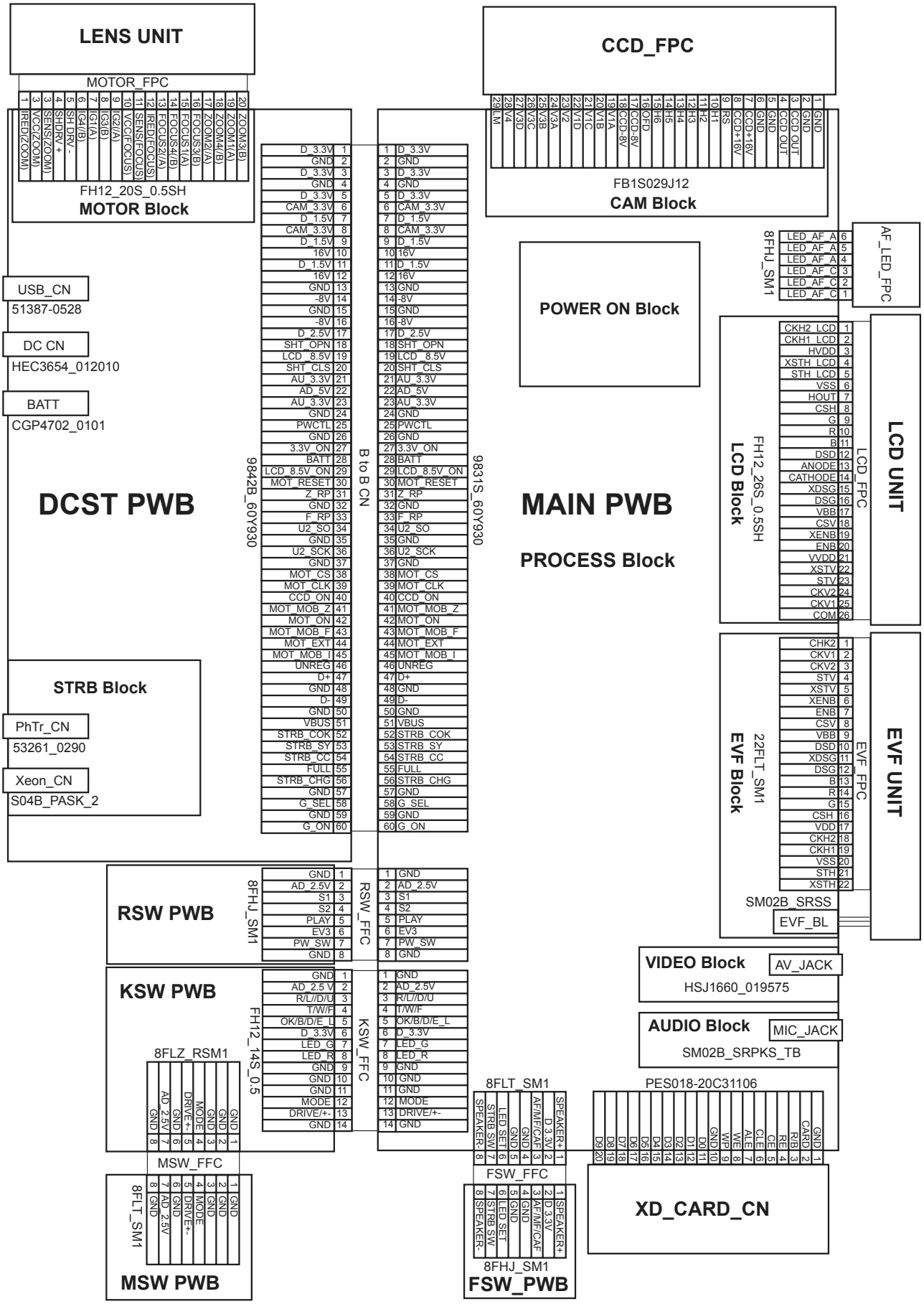
The power supply block is built around the DC IC (IC501). It generates the below power supplies and supplies them to the individual blocks.

3.3 V	[UCS2 (IC206), ACS (IC103), V-Drv (IC101), FLASH ROM (IC207), STRB IC (IC602), MOTOR Drv (IC651), PWON IC (IC301), xD Picture Card, MAIN PWB, SUB PWB]
5V	[V-Drv(IC101,MOTOR Drv(IC651),STRB IC (IC602)]
EV3	[Key(IC400),MAIN_PWB, SUB_PWB,PSW_PWB]
A3.3V	[UCS2 (IC206), CLK GEN (IC201), MAIN PWB, LCD]
16 V	[CCD (IC1), OFD(IC101),V Drv (IC102)]
-8 V	[CCD (IC1), V Drv (IC102)]
UNREG	[STRB Block, KEY IC Block]

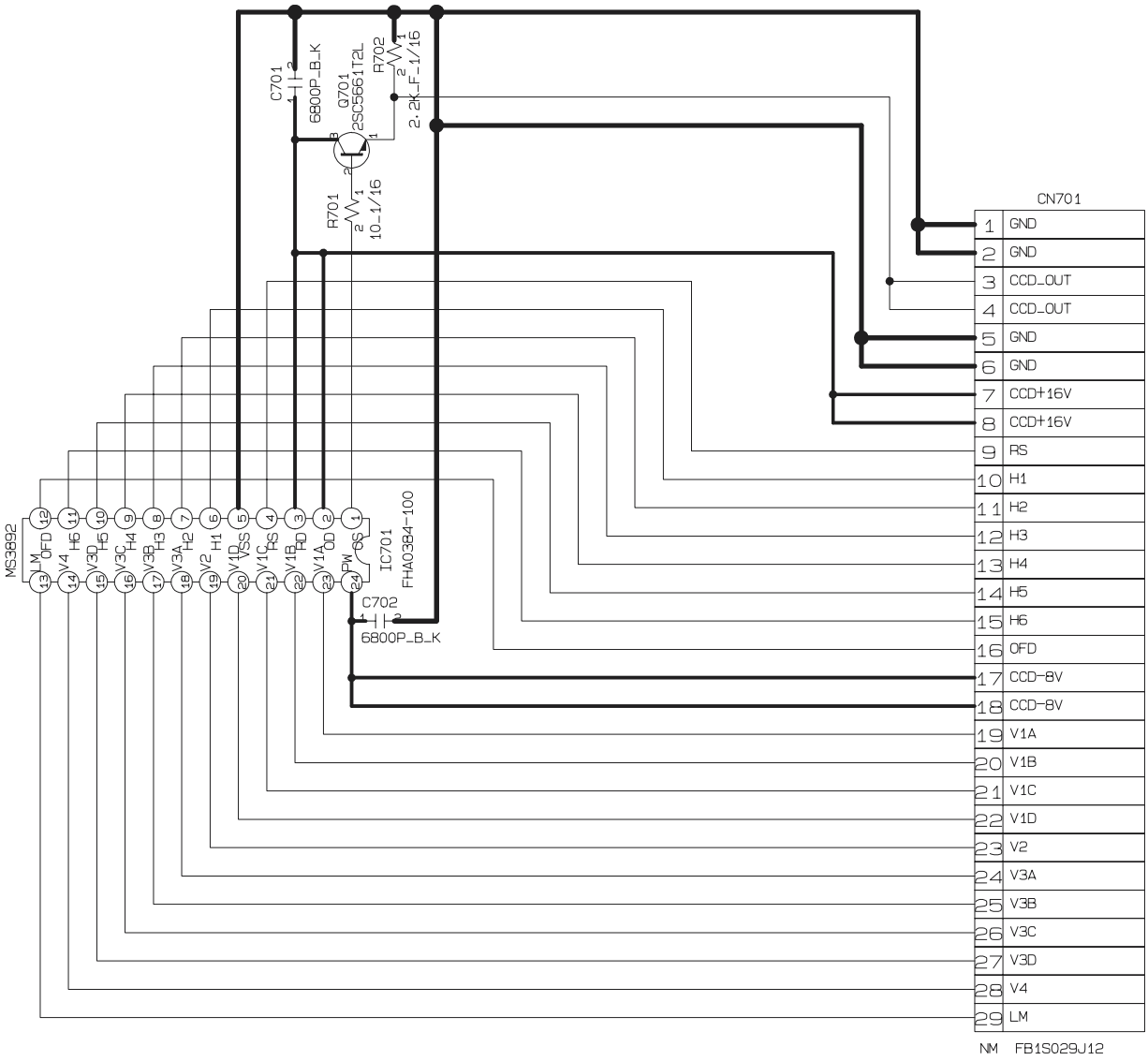
3-4. Block Diagram



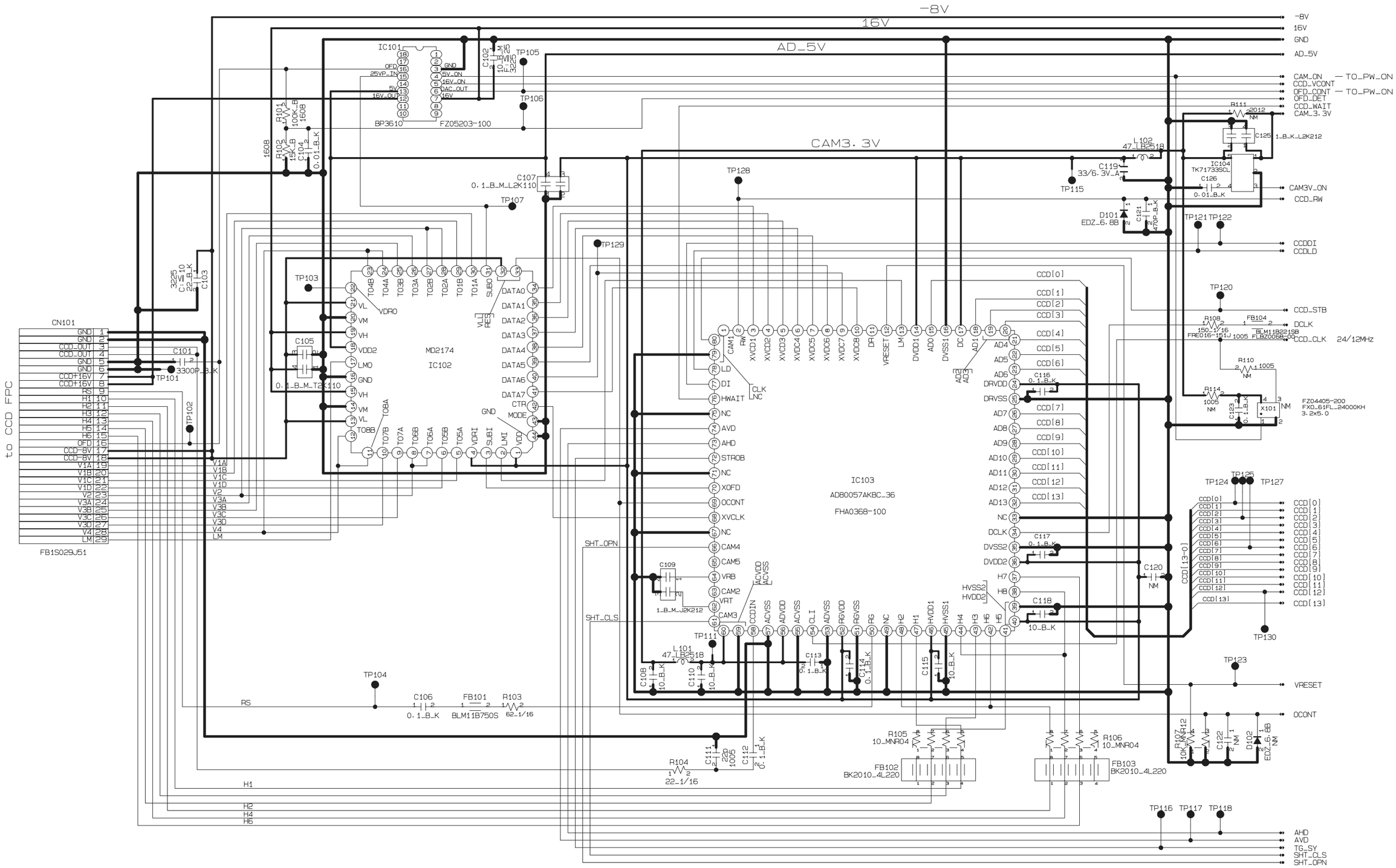
3-5. Overall connection Diagram



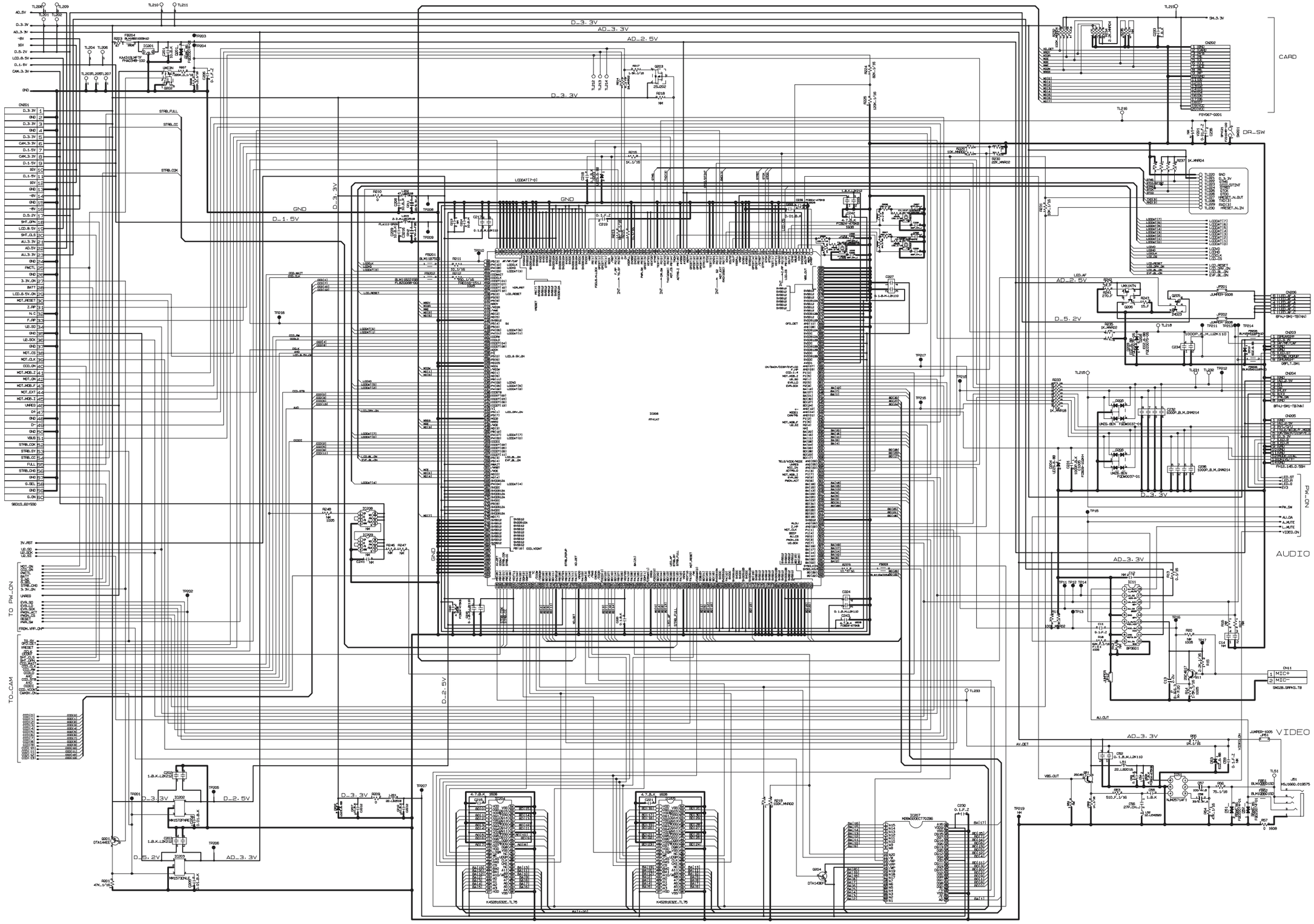
3-6. CCD BLOCK Schematic Diagram



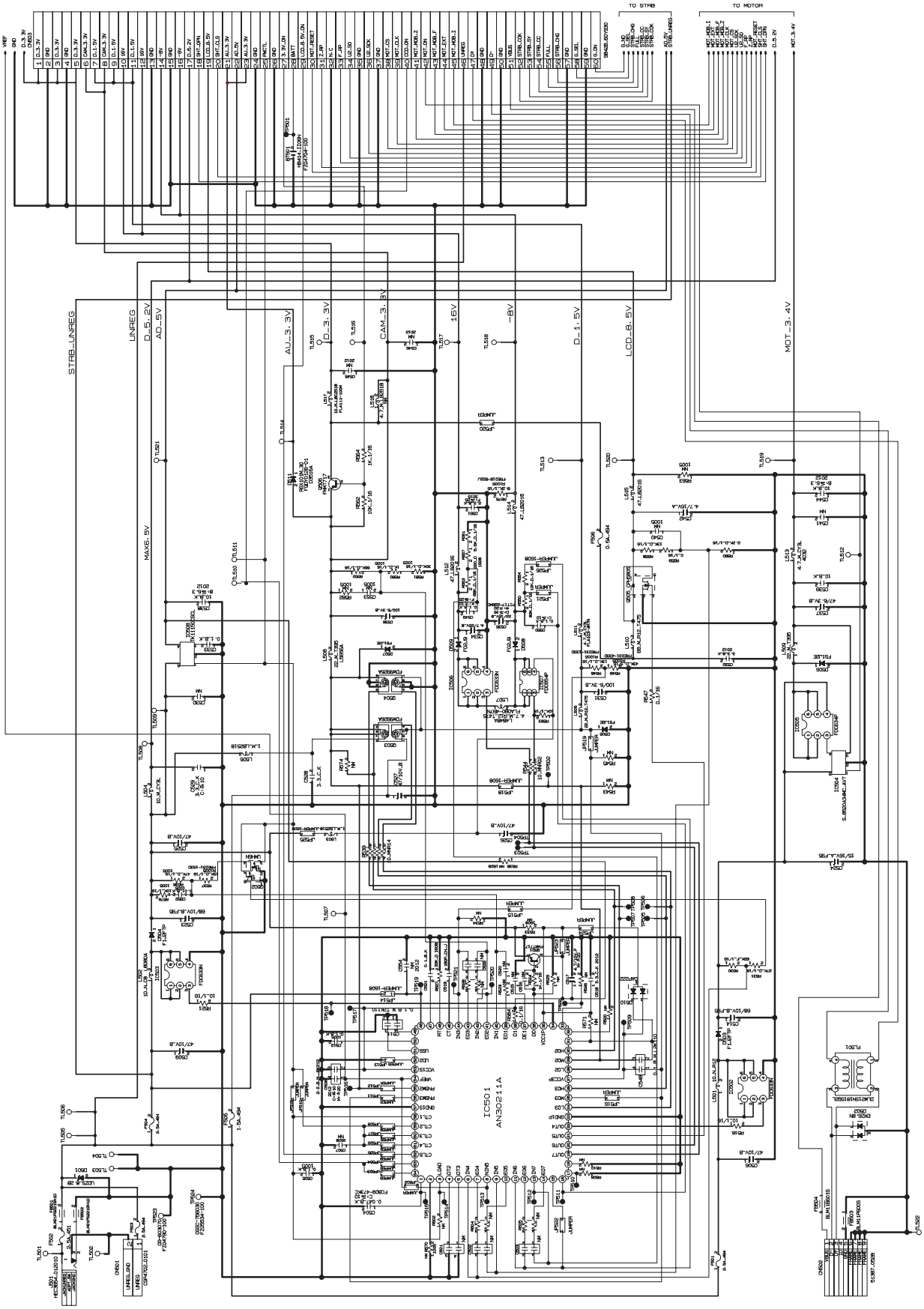
3-7. CAMERA BLOCK Schematic Diagram



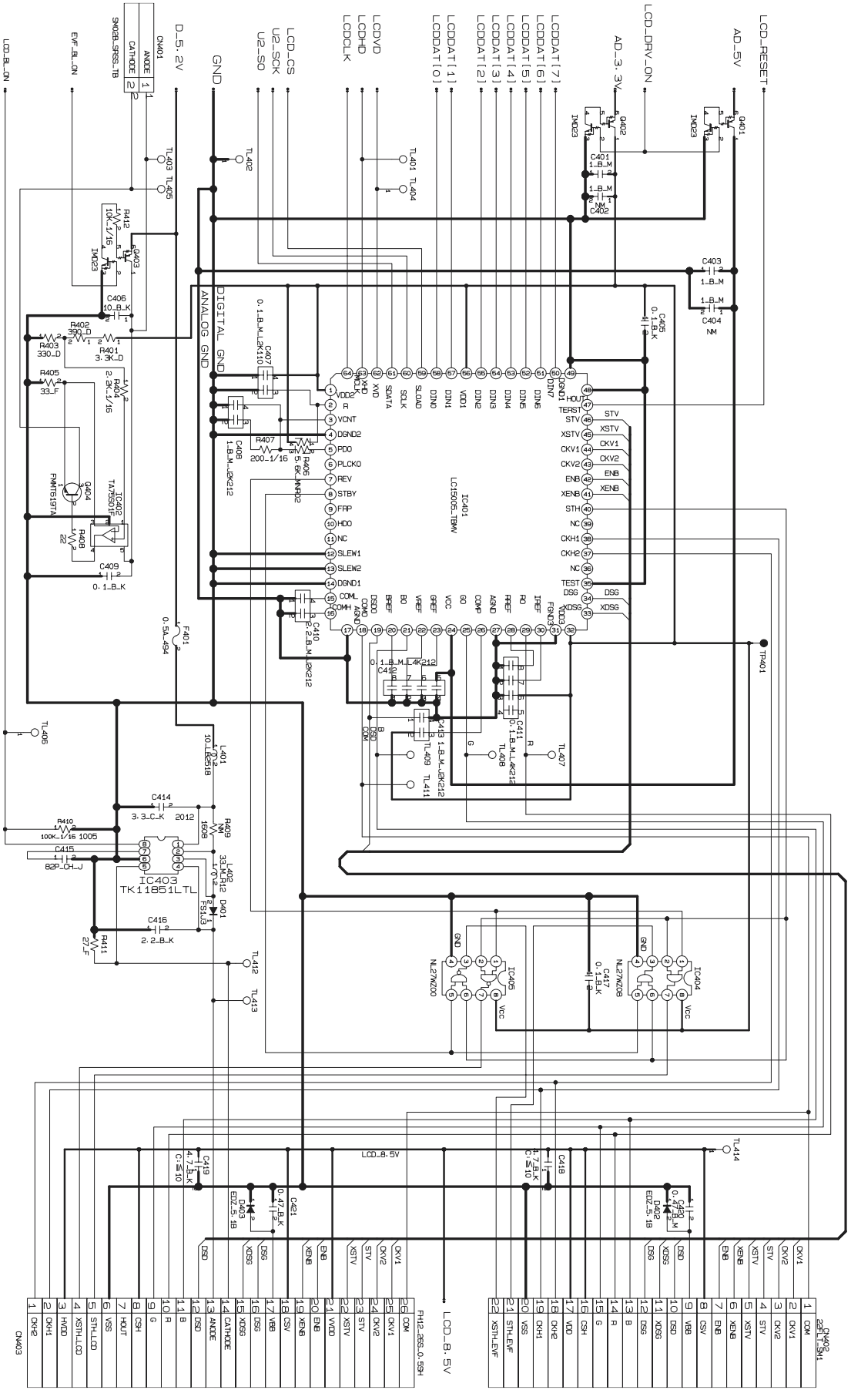
3-8. PROCESS BLOCK Schematic Diagram



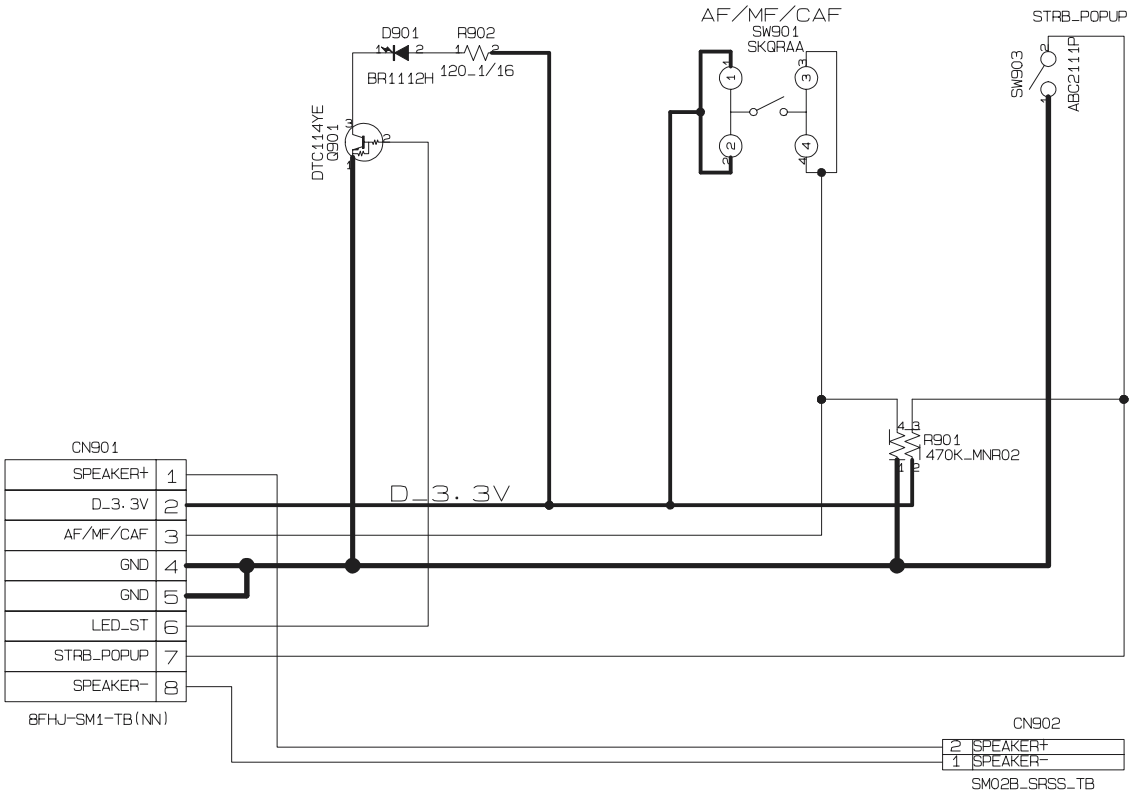
3-9. POWER BLOCK Schematic Diagram



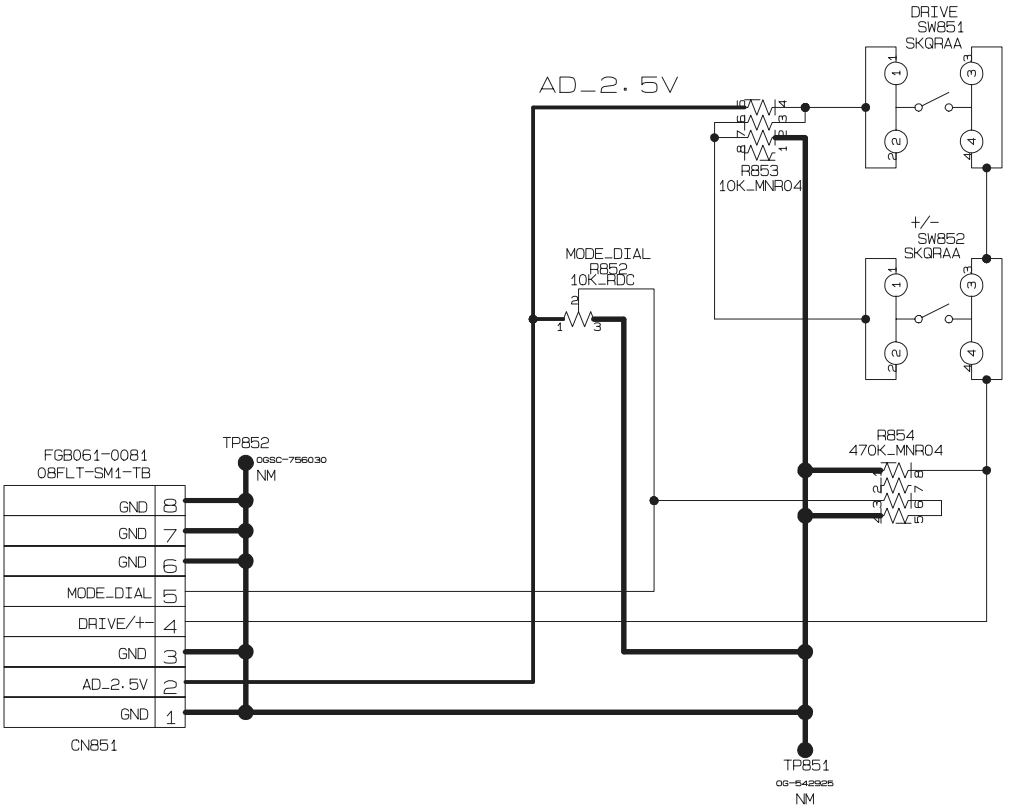
3-10. LCD-EVF BLOCK Schematic Diagram



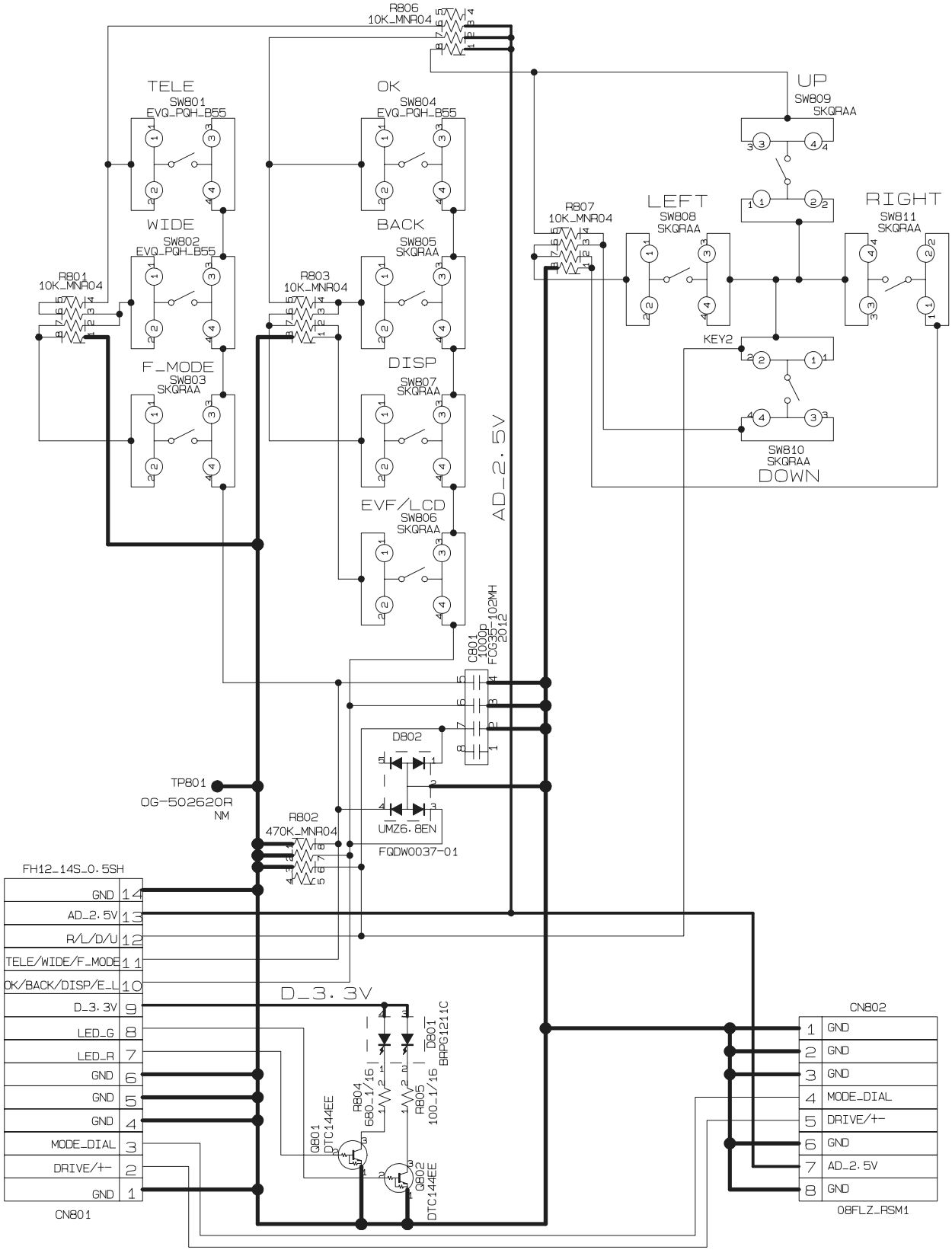
3-11. F SW BLOCK Schematic Diagram



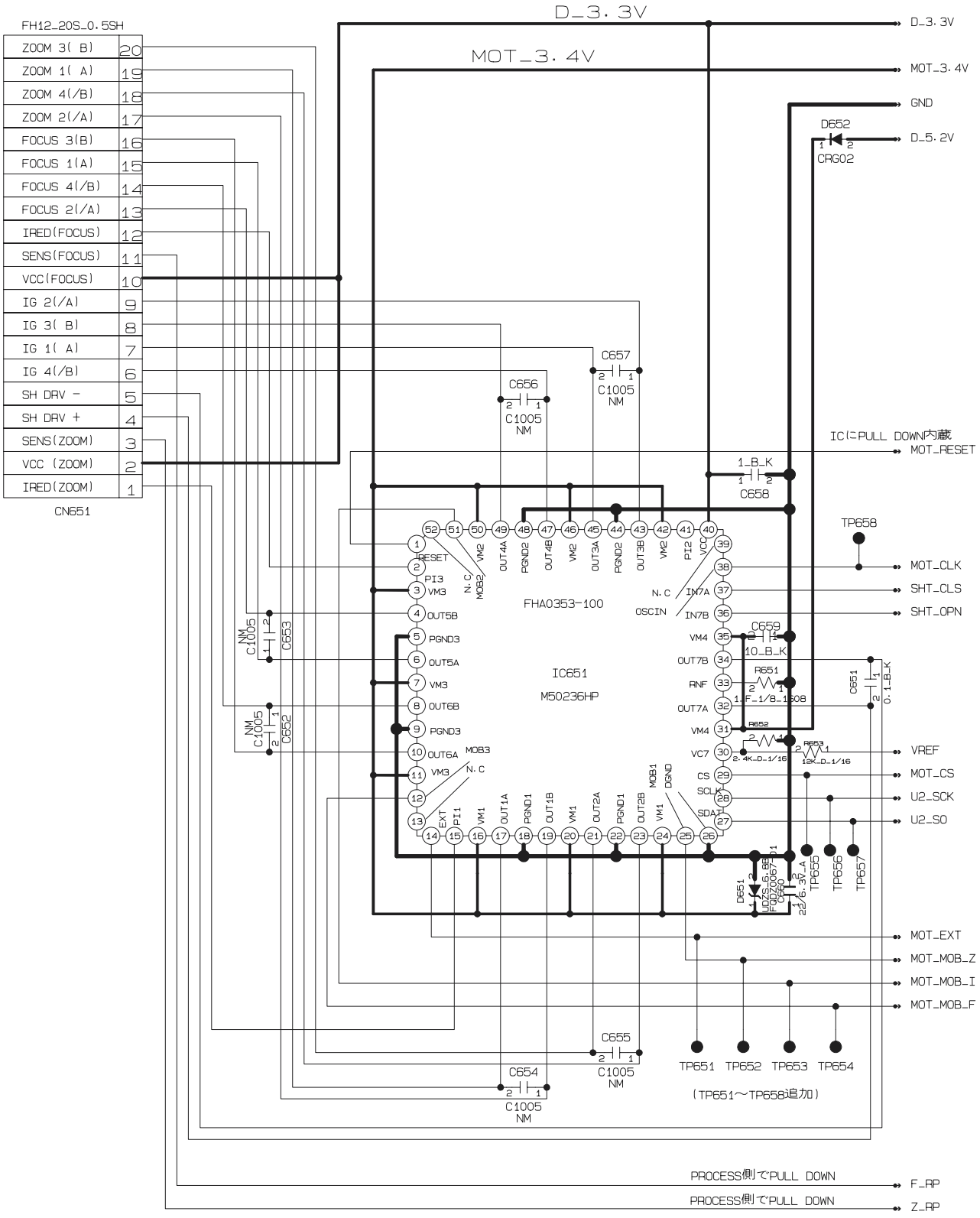
3-12. M SW BLOCK Schematic Diagram



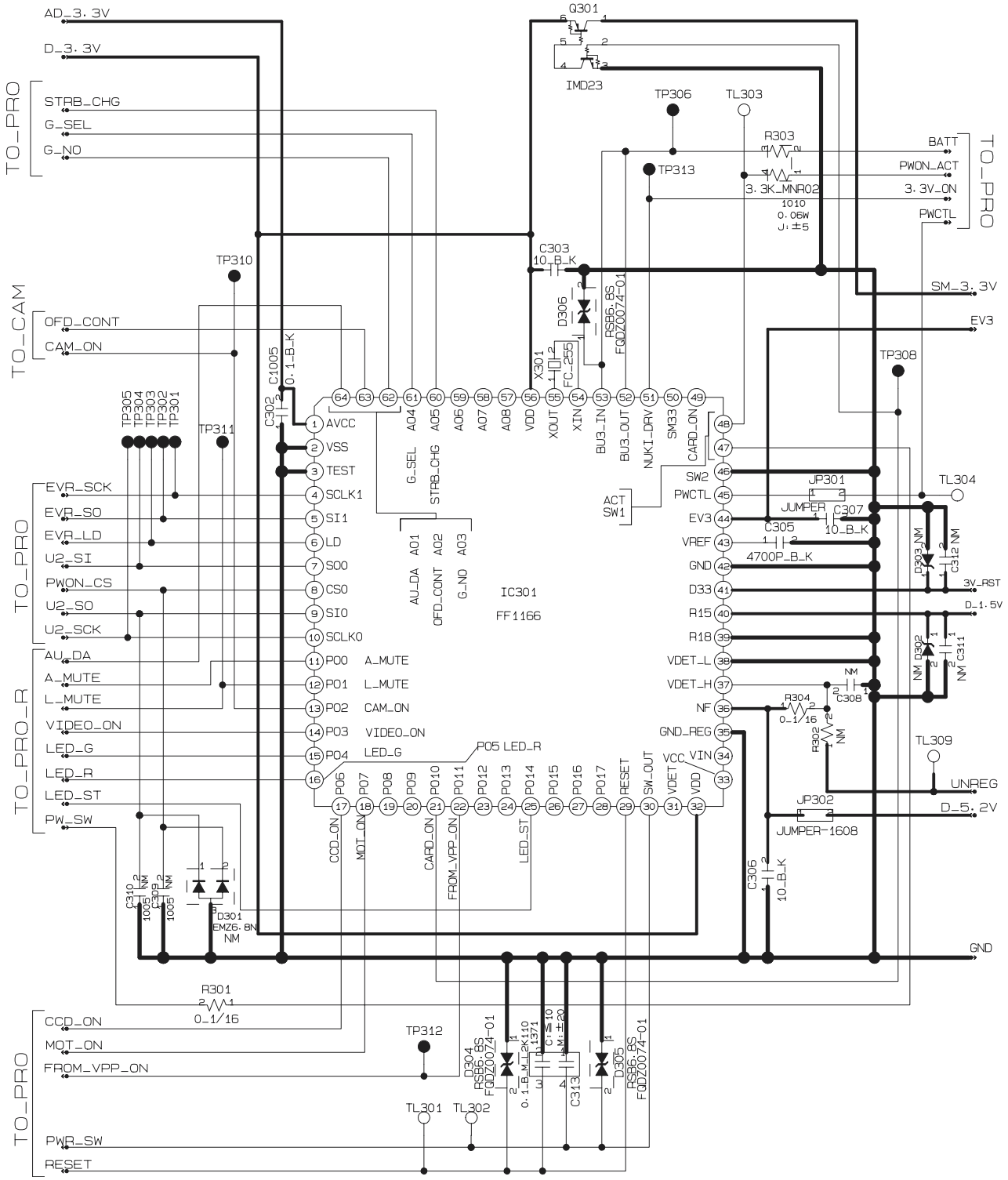
3-13. KEY SW BLOCK Schematic Diagram



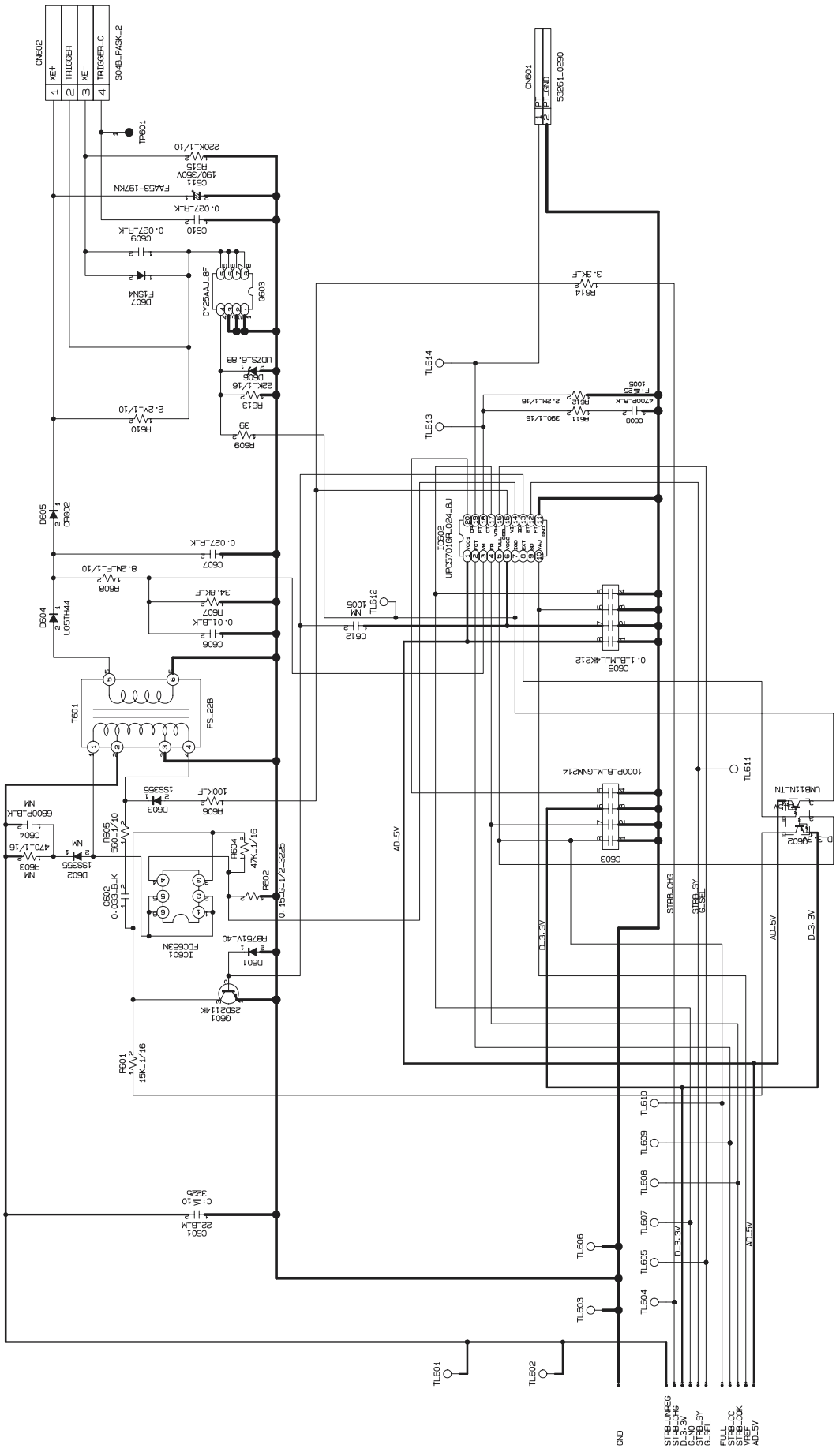
3-14. MOTOR BLOCK Schematic Diagram



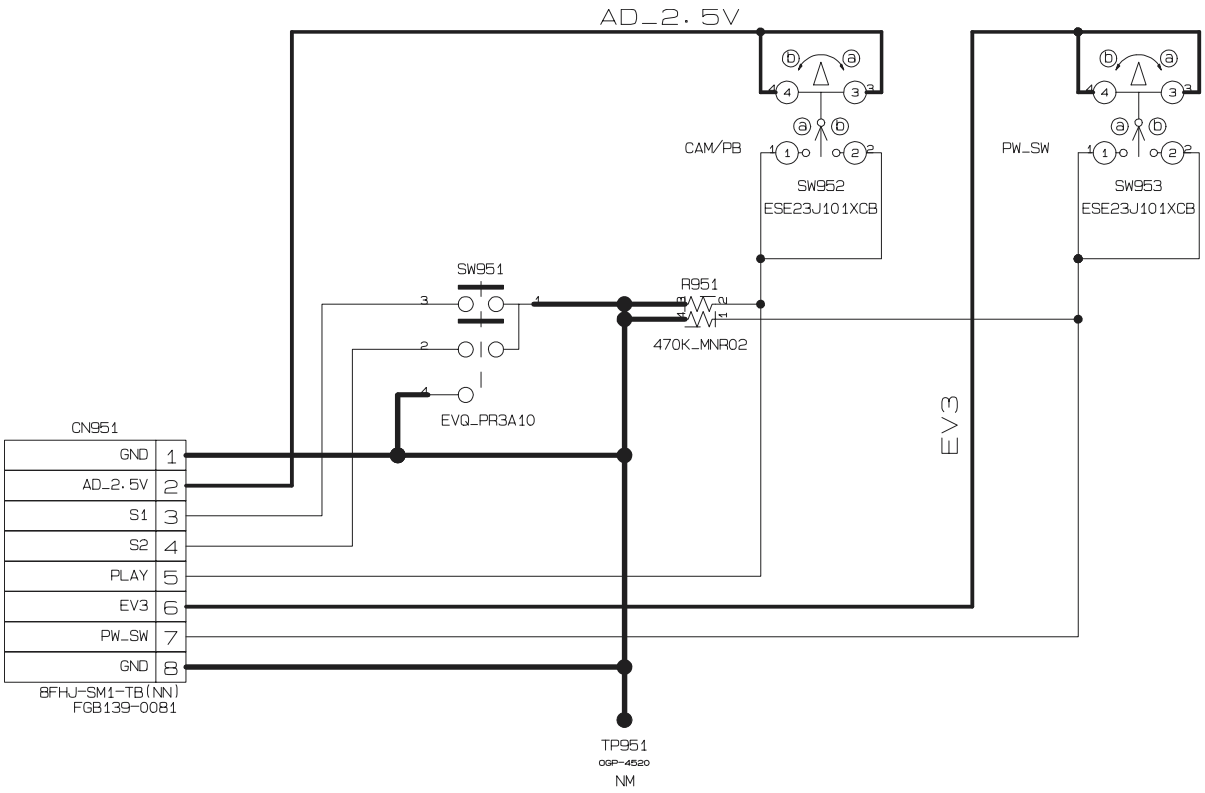
3-15. POWER ON BLOCK Schematic Diagram



3-16. FLASH BLOCK Schematic Diagram

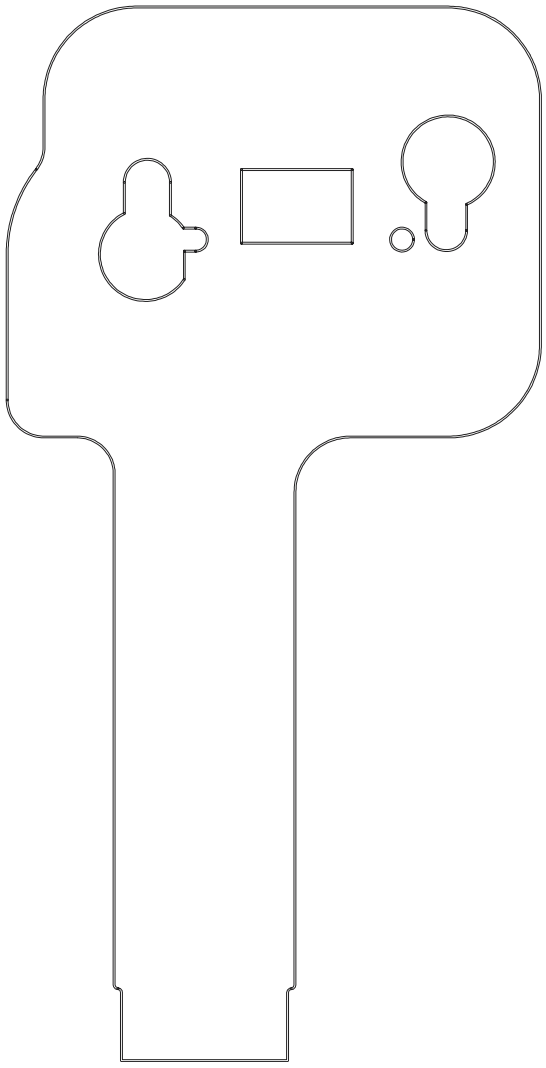


3-17. R SW BLOCK Schematic Diagram

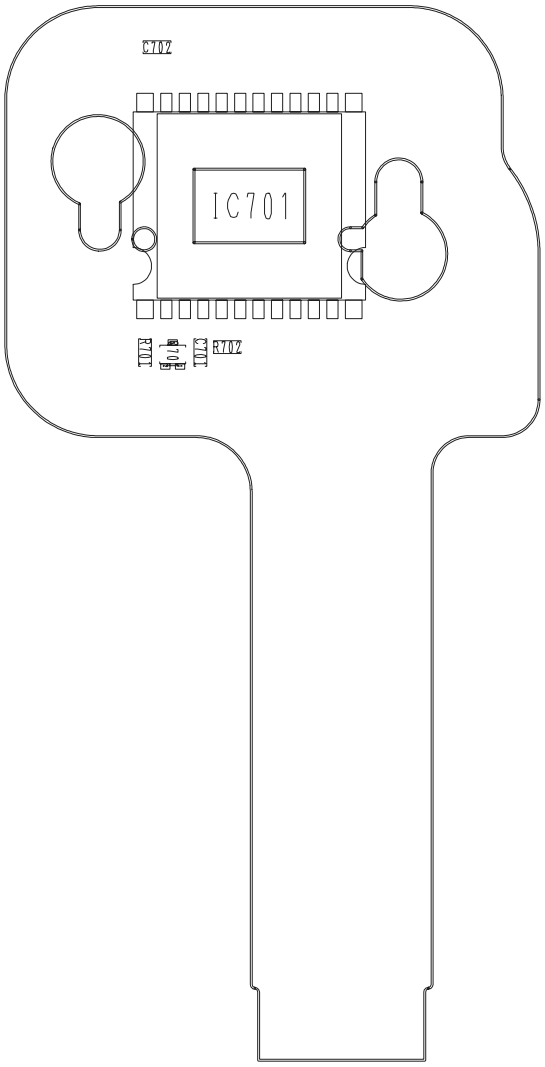


3-18. CCD FPC ASSY Component Locations

<Side A>

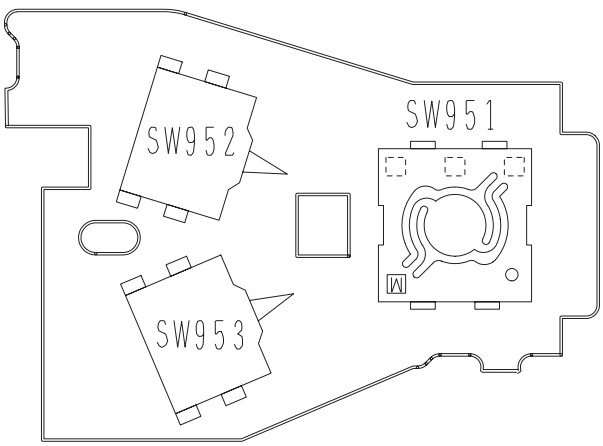


<Side B>

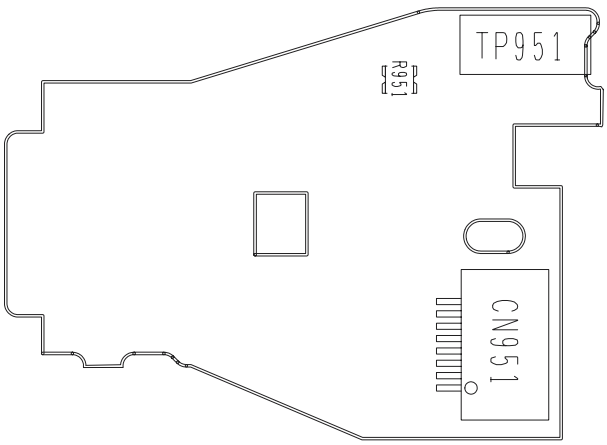


3-19. RSW PWB ASSY Component Locations

<Side A>

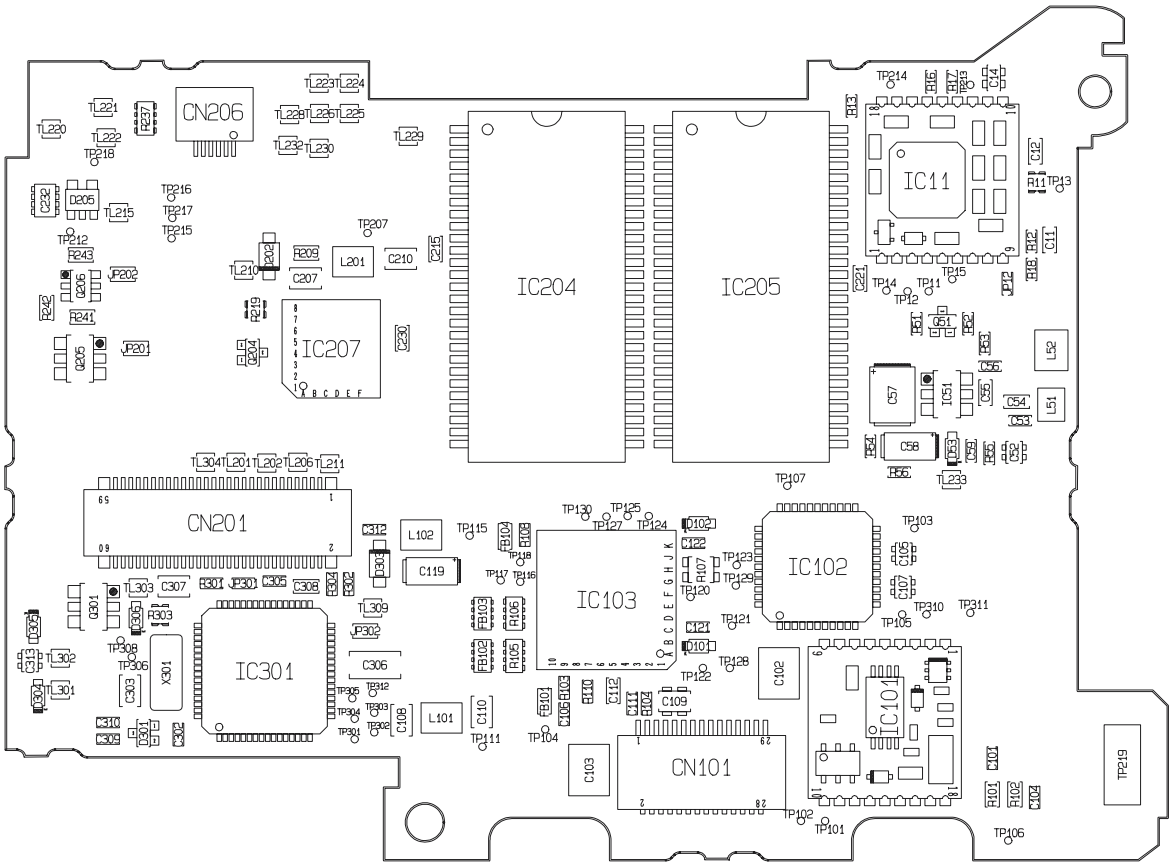


<Side B>

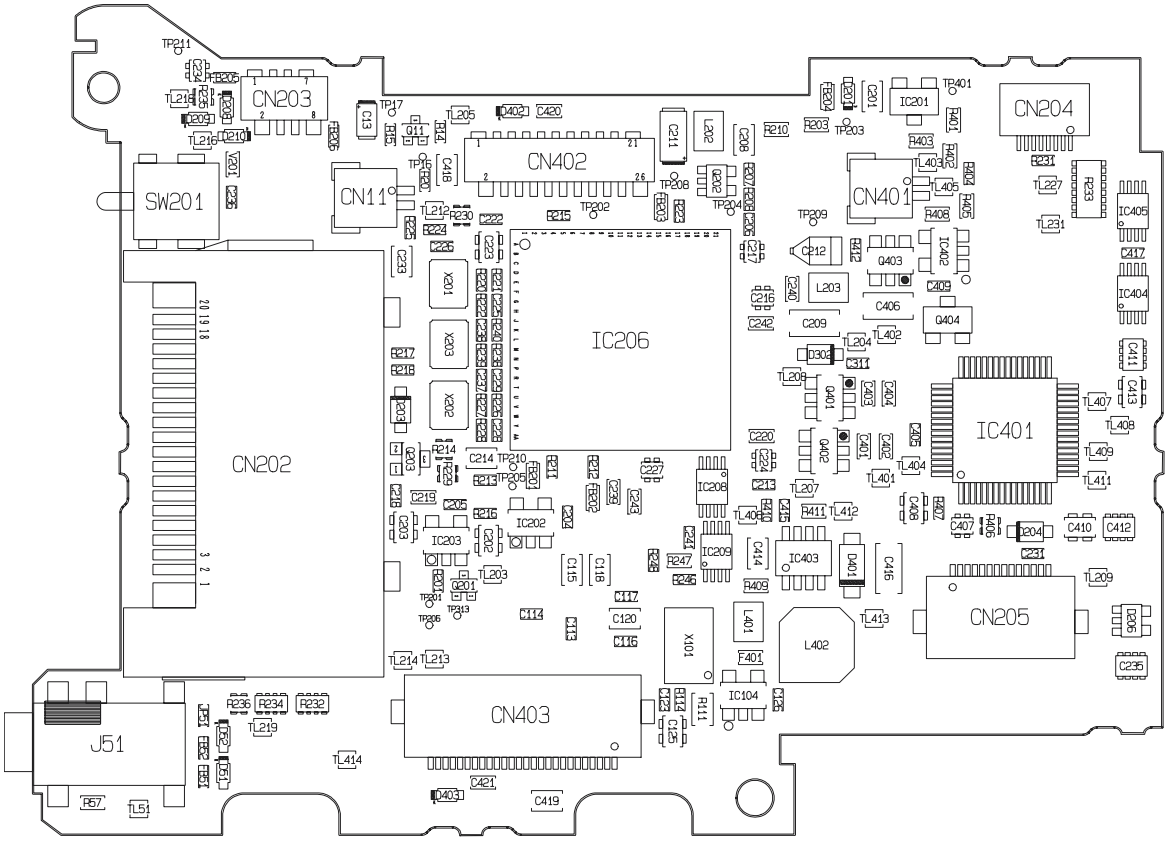


3-20. MAIN PWB ASSY Component Locations

<Side A>

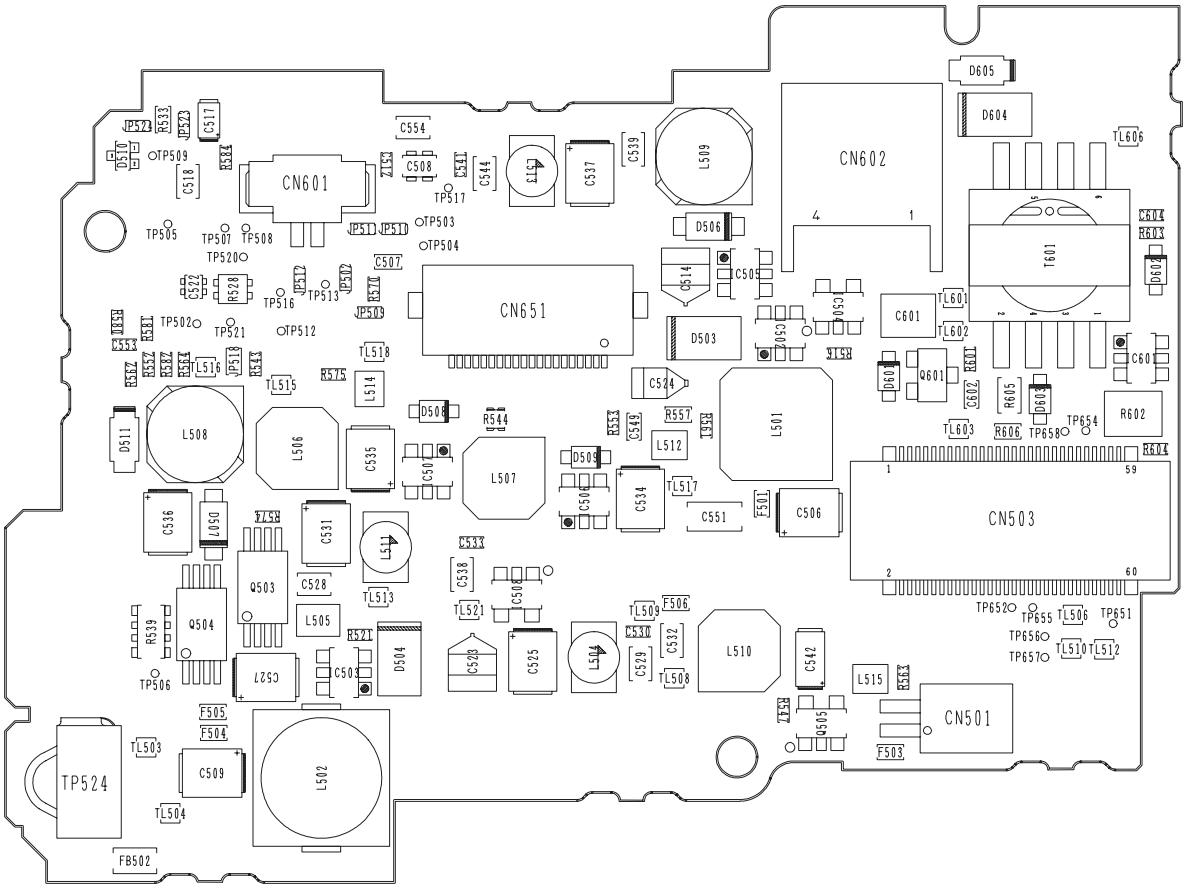


<Side B>



3-21. DCST PWB ASSY Component Locations

<Side A>



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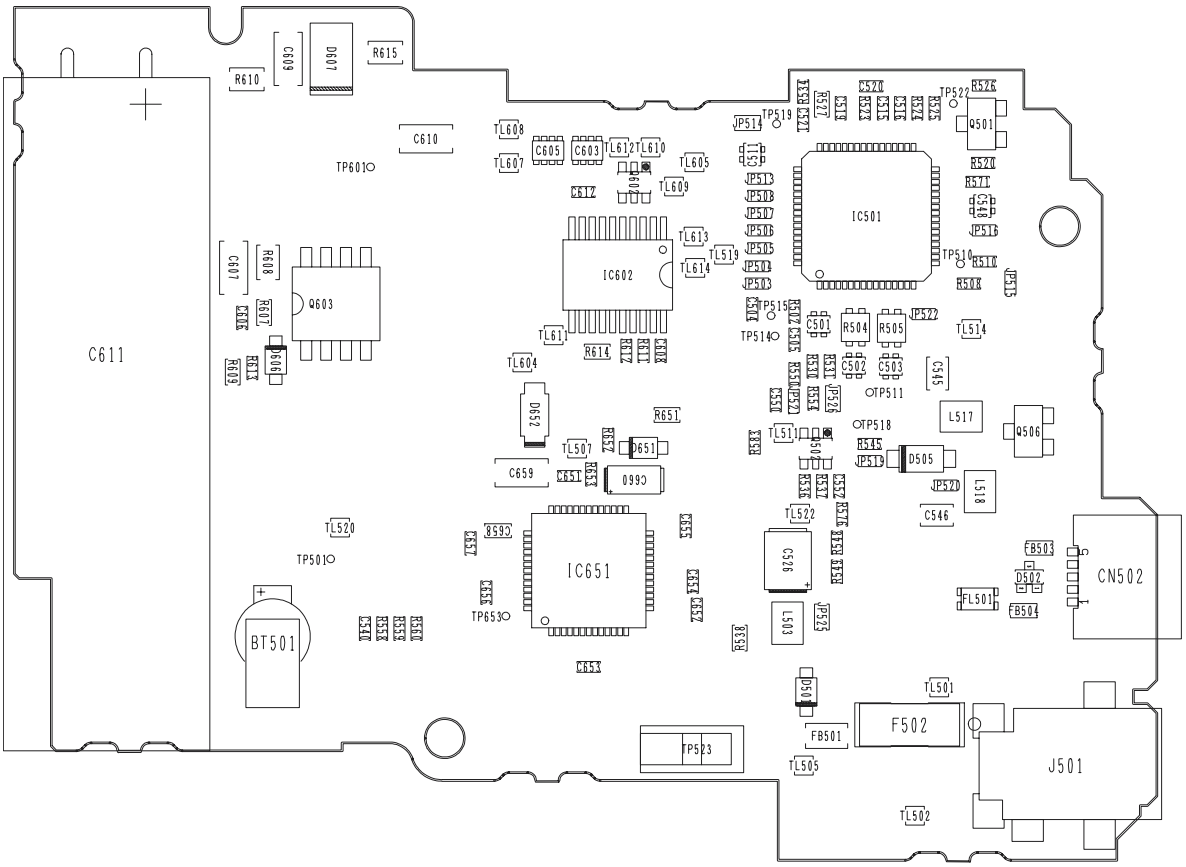
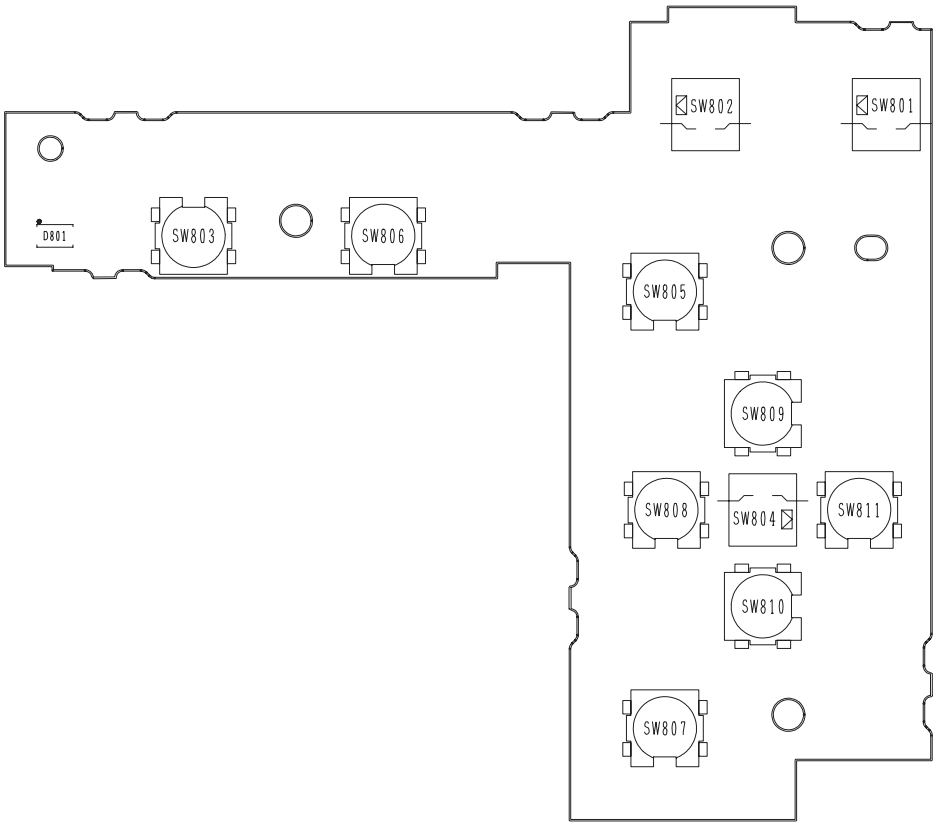


3-22. KSW PWB ASSY Component Locations

<Side A>



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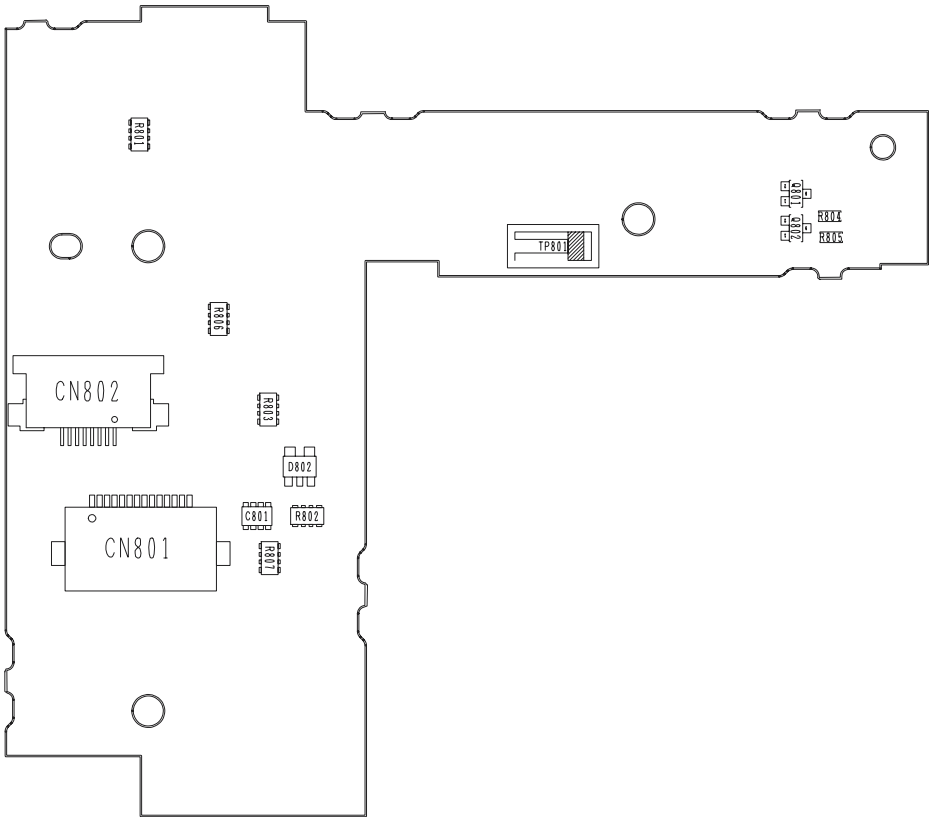
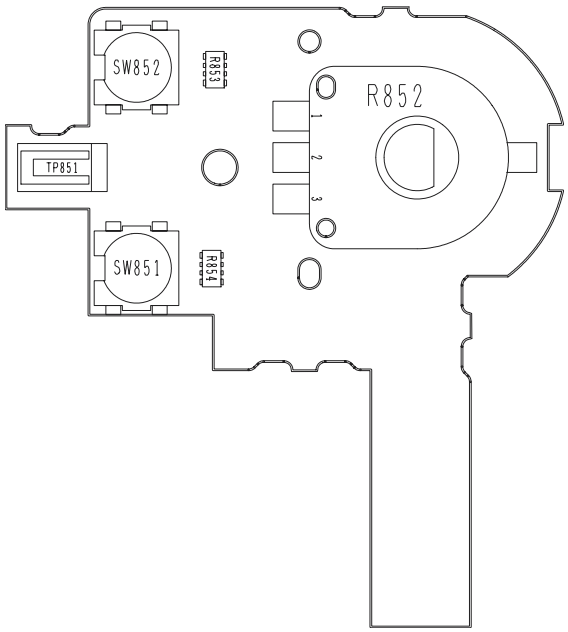
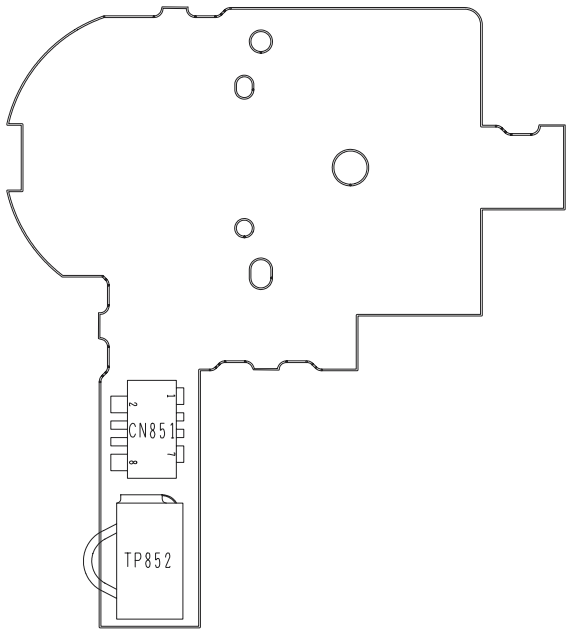


3-23. MSW PWB ASSY Component Locations

<Side A>



<Side B>



4. Adjustments

4-1. Adjustment Procedure of Parts Replacement

Adjust in the order noted below after replacing the parts in the table.

	AF ASIST LIGHT	CCD data	CAMERA	AF	Battery	Flash	VIDEO	End setting
LENS ASSY		1	2	3	4	5	6	7*
MAIN PWB ASSY		1	2	3	4	5	6	7*
DCST PWB ASSY					1	2		3*
FLASH UNIT						1		2*
CABINET FRONT	1							2*
AF FRAME ASSY	1							2*

*: If End setting is not run the camera will remain in the jig mode, and will not enter the storage mode when connected to the PC. Always run End setting after completing adjustments.

4-2. Measuring Devices

Measuring device	Remarks
Regurated power supply	For adjustment.
Pattern box	PTB450
Digital voltmeter	For adjustment.
PC	For various adjustments and operation checks (PC-AT compatible, Windows 98).
Luminance meter	LS-110 (Minolta) or equivalent.
Color thermometer	Color Meter III (Minolta) or equivalent.
TV monitor	TV monitor (For AF-Assist light Adjustment, function inspection)
Flash meter	For function inspection.

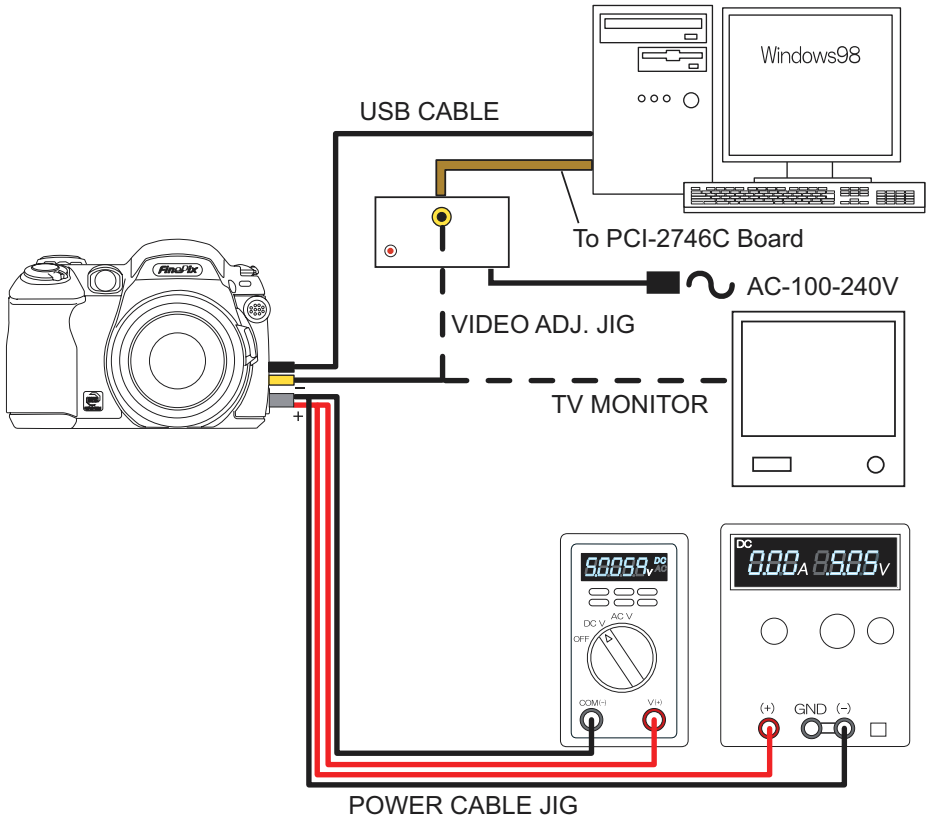
4-3. Jigs

Jig	Part number	Application
Filter LB140	ZJ00006-100	CAM adjustment (common to DS-7/20/30)
AF chart	ZJ00477-100	AF adjustment (common to FinePix 6800Z)
Line chart	ZJ00681-100	AF-Assist Light adjustment. *1
Conversion lens (f = 1560.69mm)	ZJ00734-100	AF adjustment
Conversion lens (f = 865.12mm)	ZJ00735-100	AF adjustment
Lens holder(70mm)	ZJ00736-100	AF adjustment
Stand	ZJ00009-100	AF adjustment (common to 8mm VTR, FinePix 500)
Base plate	ZJ00010-100	AF adjustment (common to 8mm VTR, FinePix 500)
Grey chart (reflective)	ZJ00254-100	Strobe adjustment (common to FinePix 700)
USB cable	FZ05241-100	PC adjustment
Power Cable jig	ZJ00580-100	General adjustments
FinePix S5000_W adjustment software	**ZJ00674-100**	**Dedicated software for general camera adjustment. *1**
FinePix CCD Data	**ZJ00676-100**	**Camera adjustment. *1**
AC adapter (AC-5V)	– – – – – – – –	For general adjustment.
DSC jig driver	ZJ00476-101	DSC jig driver setup. ***1**
Discharger	ZJ00581-100	Discharge for FLASH UNIT
Video Adjustment jig	**ZJ00650-100**	VIDEO Adjustment.
AC Cable (For EG)	FZ03983-100	Use with Video adjustment jig. ***2**
AC Cable (For EU)	FZ03982-100	Use with Video adjustment jig. ***2**
AC Cable (For US/JP)	FZ00330-200	Use with Video adjustment jig. ***2**
Video Cable	FZ05262-100	VIDEO Adjustment
X-Y stage for AF adjustment	ZJ00611-100	AF adjustmentCommon with the FinePixM603
LB140 filter holder kit for X-Y stage	ZJ00653-100	General adjustment
AF solid chart	ZJ00553-100	General adjustmentCommon with the FinePixS2Pro

***1 : Data available from WEB site**

***2 : Select one of the power cable suitable for each country.**

4-4. Jig Connections



* Always measure input voltage close to the DC_IN pin when making adjustments.

4-5. Environment Setup

(1)Setup for camera adjustment (Fig.A)

<<All white pattern>>

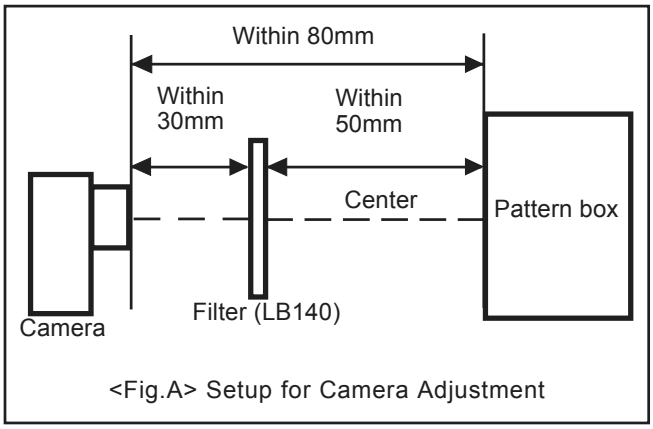
Set the distance between the camera reference face (*1) and the pattern box to within approximately 50mm.
Filter (LB140) and reference face in direct contact.

1. Color temperature: 6100±50K (with LB140 filter)
   Measurement position : middle of pattern box
   Measuring device : Minolta Color Meter III F or equivalent

   *Color temperature measurement
   Filter (LB140) and pattern box in direct contact
   Adjust color temperature of pattern box to 6100±50K with filter (LB140) in contact with color thermometer.

2. Luminance: 160±5cd/m² (with LB140 filter)
   Measurement position : middle of pattern box
   Measuring device : Minolta Luminance Meter LS-110 or equivalent

   *Luminance measurement
   Filter (LB140) and pattern box in direct contact

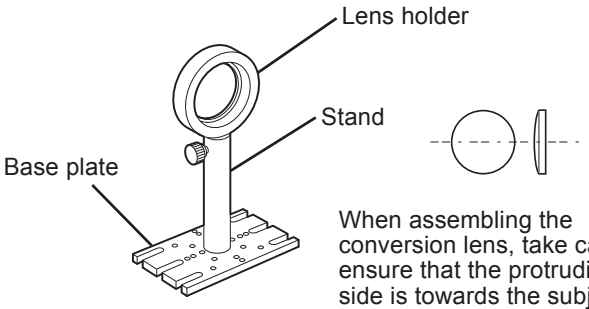


<Fig.A> Setup for Camera Adjustment

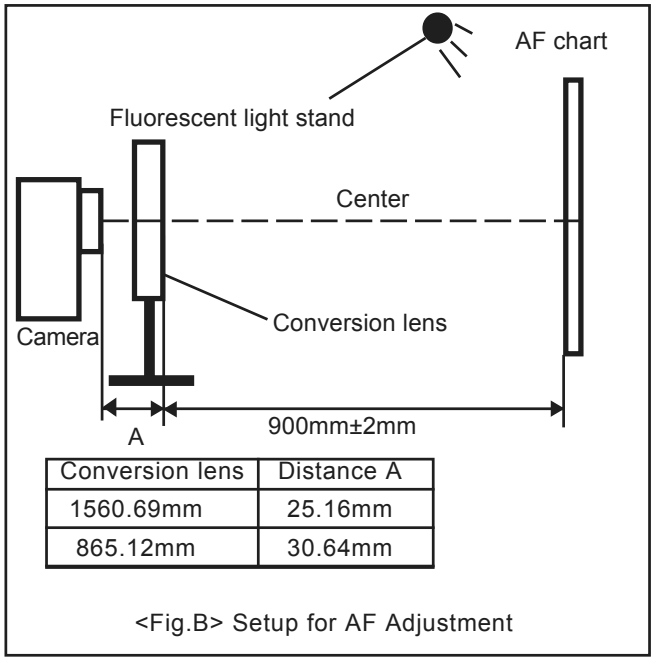
(*1)Front face of LENS ASSY used as camera reference face.

(2)Setup for AF adjustment (Fig.B)

1. Set the distance between the conversion lens and the tip of the lens to 900mm±2mm.
2. Use a light source to illuminate the AF chart. Ensure that the luminance of the surface of the AF chart is between 9.0Ev and 12.0Ev.
3. Ensure that the conversion lens is concentric with the camera lens.



When assembling the conversion lens, take care to ensure that the protruding side is towards the subject, and the flat side is towards the camera lens.

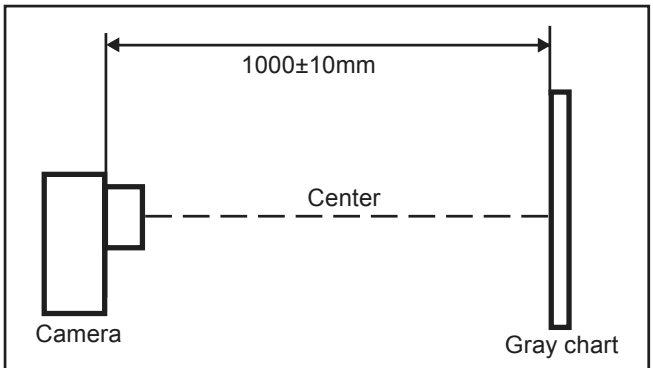


Conversion lens	Distance A
1560.69mm	25.16mm
865.12mm	30.64mm

<Fig.B> Setup for AF Adjustment

(3)Setup for Flash Adjustment (Fig.C)

Strobe adjustment is readily influenced by external light. The periphery of the gray chart should therefore be as dark as possible to minimize this influence.
Ensure that the gray chart is at a distance of 1000mm from the camera reference face (*1). Use a Superior Oxford Gray (No.22) chart, or a chart with reflectivity of 18±0.7%.



<Fig.C> Setup for Flash Adjustment

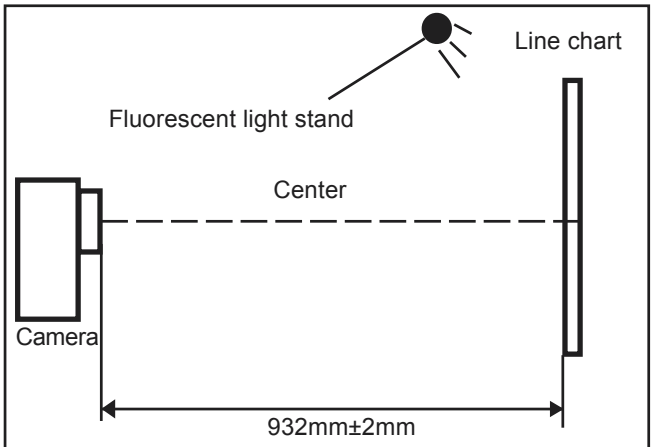
(4)Preparation for AF-Assist Light adjustment

1. Output the image to TV with a camera that works normally.
2. Apply the sign according to the mark of the center of the AF target [+].

(5)Setup for AF-Assist Light adjustment (Fig.D)

1. Set the distance between the Line Chart and the tip of the lens to 932mm±2mm.
2. Use a light source to illuminate the Line chart. Ensure that the luminance of the surface of the Line chart is between 9.0Ev and 12.0Ev.

   (Darken the lighting for the irradiation positioning after suitable of the auto focus.)



<Fig.D> Setup for AF-Assist Light adjustment

4-6. Installing the Jig Drivers on the PC

* As this device uses a USB interface for communications with the PC, the [USB Jig Driver] must first be installed on the PC before the PC adjustment software can be run.
* As the USB Jig Driver is the same for all models after March 2003, this jig driver is already installed on the PC. This driver software need not be installed on PCs in which the USB device is already been adjusted.

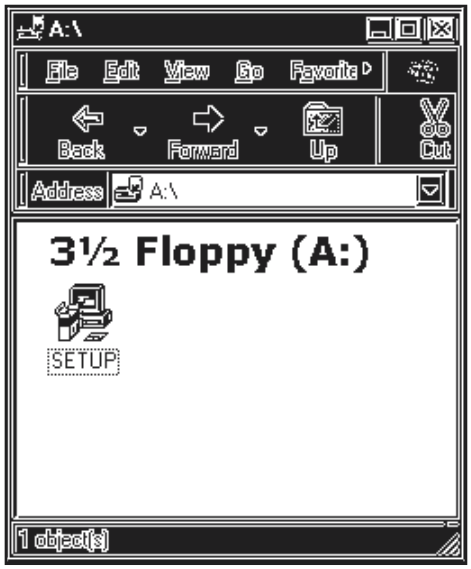
<Step 1>

Insert the DSC jig driver setup floppy disk (ZJ00476-101) in the floppy disk drive on the PC.

<Step 2>

Double-click on [setup.exe](Fig.D) on the floppy disk, and follow the instructions on the screen to install the jig driver.

The jig driver will be saved in [C:\Program Files\Fig].



<Fig.D>

4-7. Installing and Starting the Adjustment Software

<Step 1>

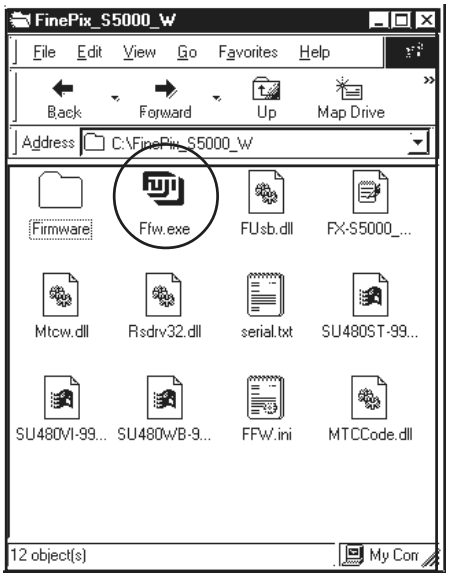
Insert the FinePix_ S5000_W adjustment software media (ZJ00674-100) in the drive on the PC.

<Step 2>

Copy each of the folders in the [FinePix_S5000_W] folder to the C: drive on the PC (Fig.E).

<Step 3>

When all the folders have been copied to the C: drive, double-click on [C:\FinePix_S5000_W\FFW.exe] (Fig.E) to start



<Fig.E>

the adjustment software.

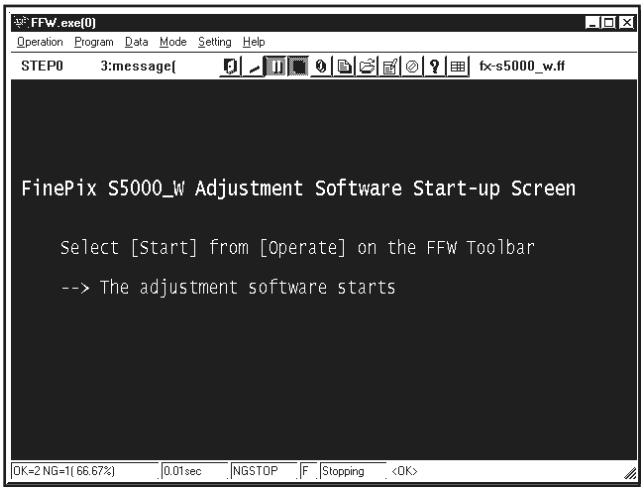
* The adjustment software will not operate correctly unless the FinePixF_S5000_W folder is located in the C:\ directory. Do not change the directory configuration or folder name.

4-8. Initializing the Adjustment Software

* As the initial setup is located in the [FFW.ini] file, follow the procedure below. Note that the software will not run if the file name is changed.

* As the initialization described in Steps 3, 4, 5, and 6 is included in the [FFW.ini] file, the user is only required to check details.

* Do not overwrite the user program (FX_S5000_W.ff) under any circumstances. The software will not run if the user program is overwritten.



<Fig.F>

<Step 1>

Double-click on the [FFW.exe] file (Fig.E) in the adjustment software folder to display the [FFW Start-up Screen] (Fig.F).

<Step 2>

Click on [Setting] (Fig.G-1) on the [menu bar] on the screen.

Select [Mode setting] (Fig.G-2) from the pull-down menu.

<Step 3>

Select the [EVR&Comm.] menu on the [Mode setting] dialog screen (Fig.H-1).
Set the [EVR] items as follows (Fig.H-2).

Item	Details
etc(-V2)	Check
LANC Page	Check

<Step 4>

Select the [Etc] menu on the [Customize] dialog screen (Fig.I-1).
Set the [Etc] items as follows (Fig.I-2).

Item	Details
# of automatic measure	0
Permit mode change	Do't check
Use Japanese font	Do't check
Don't show OK NG	Check or Don't check

(Note)
If [Disable OKNG display] on the PC screen (Fig.H) is set to OFF, the PC screen displays [OK] if adjustment is OK, and [NG] if adjustment is NG (either setting is OK).

<Step 5>

Select the [Hardware] menu on the [Customize] dialog screen (Fig.J-1).
Input the data to each items as follows (Fig.J-2).

PI /port

PIO 0	10	12	14	16
PIO 1	11	13	15	17

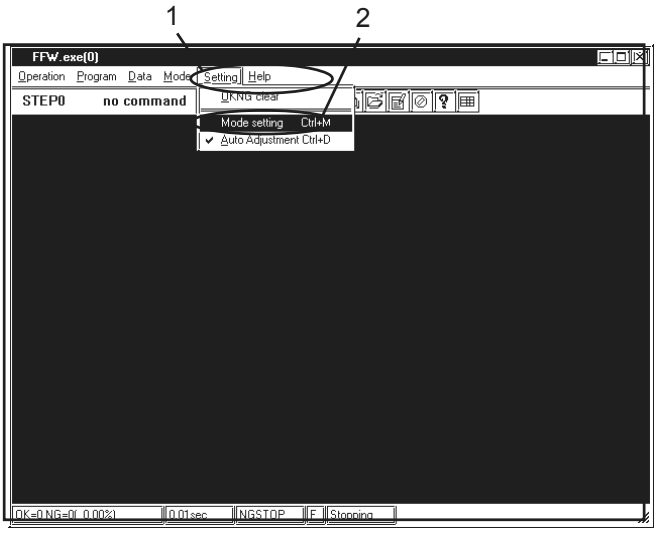
Set the [Hardware] items as follows (Fig.J-3).

Item	Details
Debug mode	Select [Default]

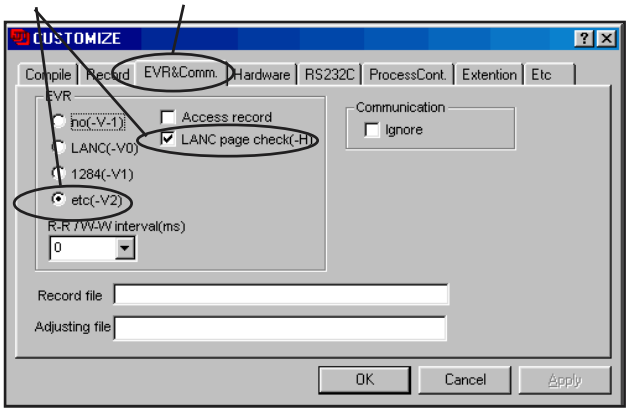
<Step 6>

When setup on the [EVR], [Etc], and [Hardware] menus is complete, click on [Apply] (Fig.J-4) on the [Customize] dialog screen to complete setup.

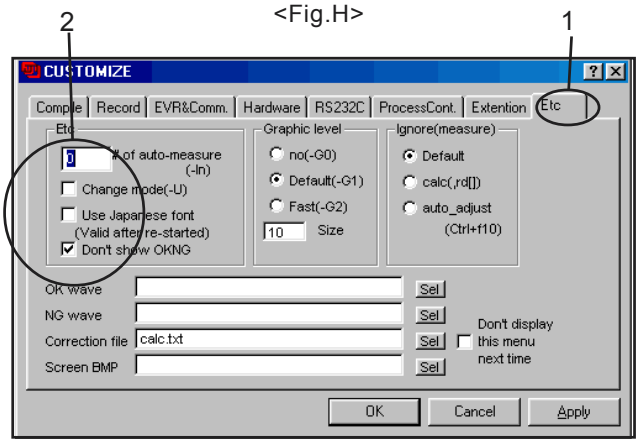
No further setup is required once setup is applied.



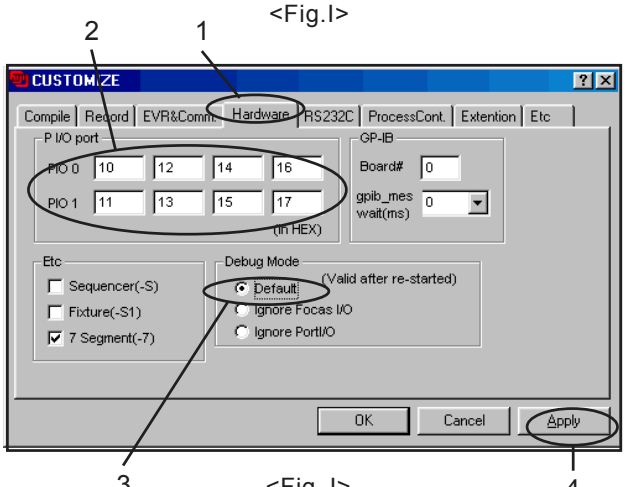
<Fig.G>



<Fig.H>



<Fig.I>



<Fig.J>

Cautions for Adjustment

[Caution 1]

Running End setting returns the camera to the [Product mode] from the [Jig mode].

Always run End setting if the PC adjustment software has been used to operate the camera.

End setting is not run the camera will be recognized as [Mass Storage] when connected to the PC, and will be unable to communicate with the PC.

Always check that the camera is recognized as [Mass Storage] when all adjustment is complete.

[Caution 2]

The FinePix S5000 is able to batch-read data, however it is unable to batch-write data (file read, ROM write).

Menu	Command	Details
Operation	Start	Start program.
	Stop	Stop program.
	Pause	Pause program.
	Step 0	Do not use.
	Terminate	Terminate program.
Program	Reload	Reload program (*.ff).
	Select	Select program (*.ff).
	Edit	Edit program (*.ff).
Data	ad[]	Do not use.
	rd[]	Do not use.
	SW	Do not use.
	fsw	Do not use.
	EVR	Do not use (Caution 2).
Mode	Record file	Do not use.
	NGSTOP adjustment is NG.	Stop program if
	STEP	Do not use.
	LINE	Do not use.
	AUTO	Do not use.
Settings	Clear OKNG.	Do not use.
	Set mode	Set mode.
	Automatic adjustment	Run user program Auto Adjust.
Help	Help	User help for basic software.
	FF help	User program help.
	FOCAS	Do not use with adjustment software.
	Version version information.	Basic software

<Table 1> FFW.exe Commands

* Do not overwrite the user program (FX_S5000_W.ff) under any circumstances. The software will not run if the user program is overwritten.

4-9. Starting the Adjustment Software

<Step 1>

Double-click on [FFW.EXE] in the folder copied to the C drive to display the adjustment software start-up screen [Fig.1].

Run the adjustment in accordance with the instructions on the screen.

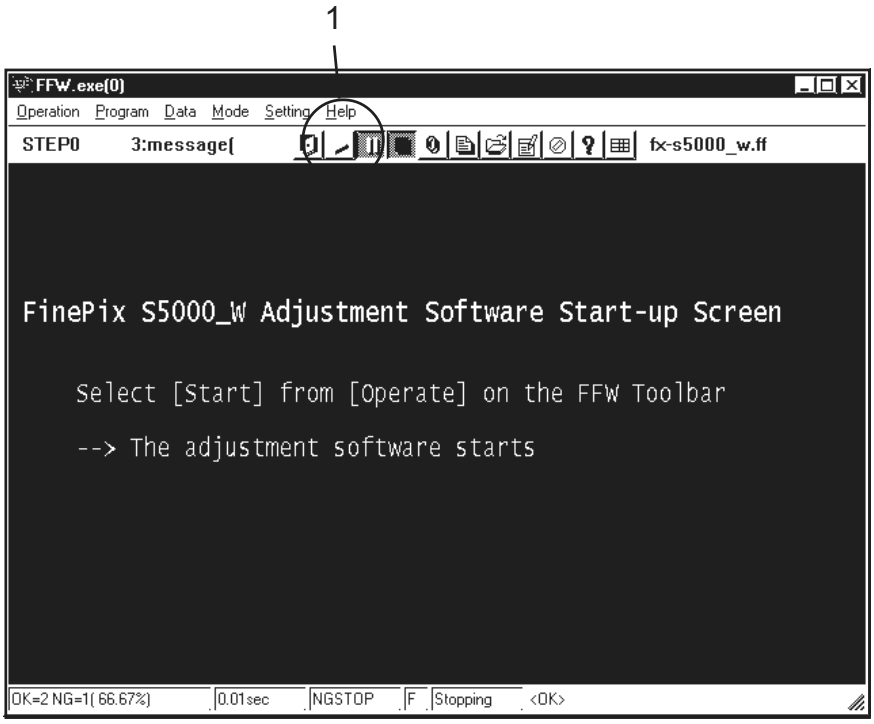


Fig.1

---> The **[FFW.exe Start-up Screen (Fig.1)]** window appears.

<Step 2>

Press the [Enter] key or the [Start button] (Fig.1-1).

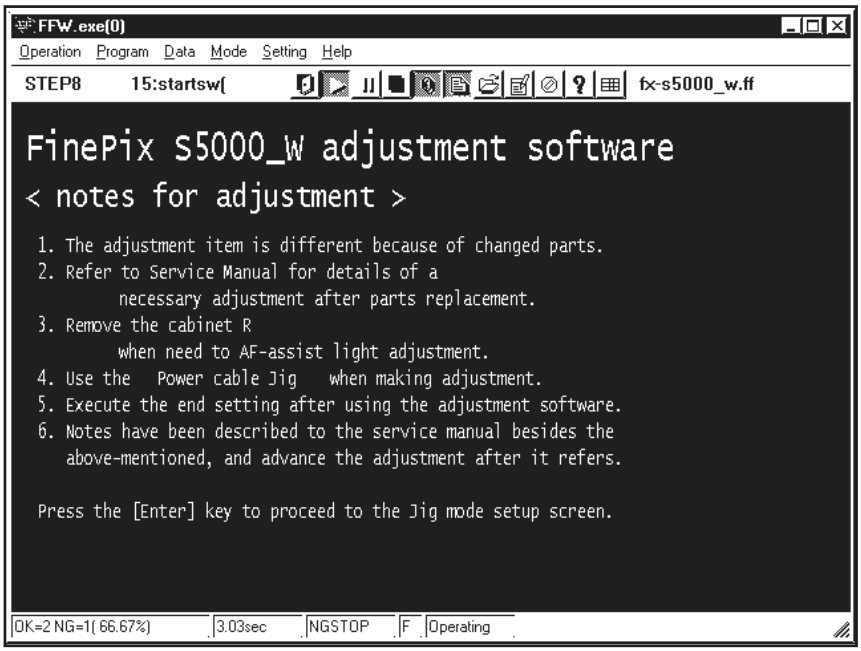


Fig.2

---> **[Inithal Screen (Fig.2)]** appears.

<Step 3>

Press the [Enter] key after checking when using the adjustment software.

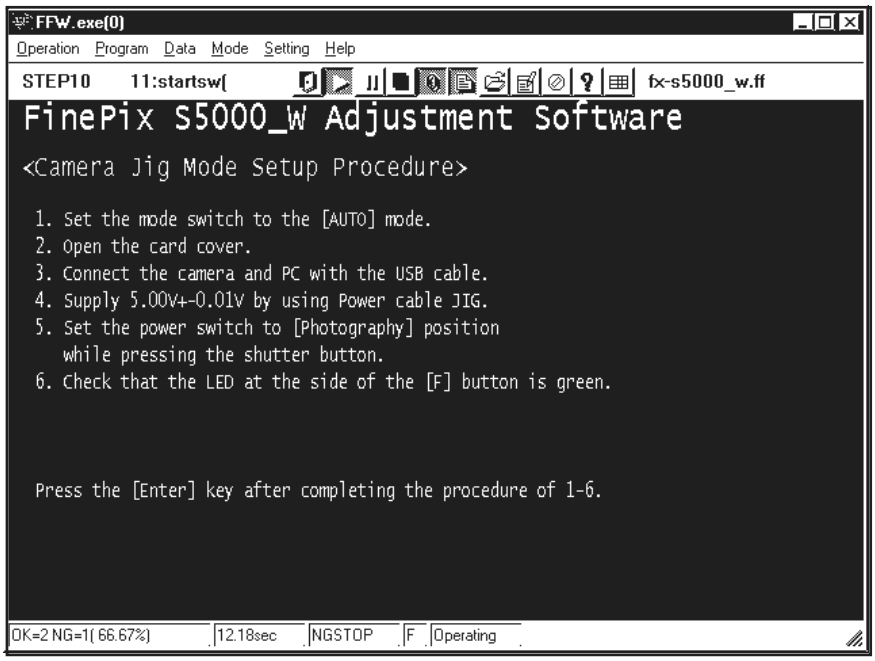


Fig.3

--->The **[Jig Mode Setup Procedure Screen (Fig.3)]** appears.

<Step 4>

Set the camera in the Jig mode, and press the Enter key.

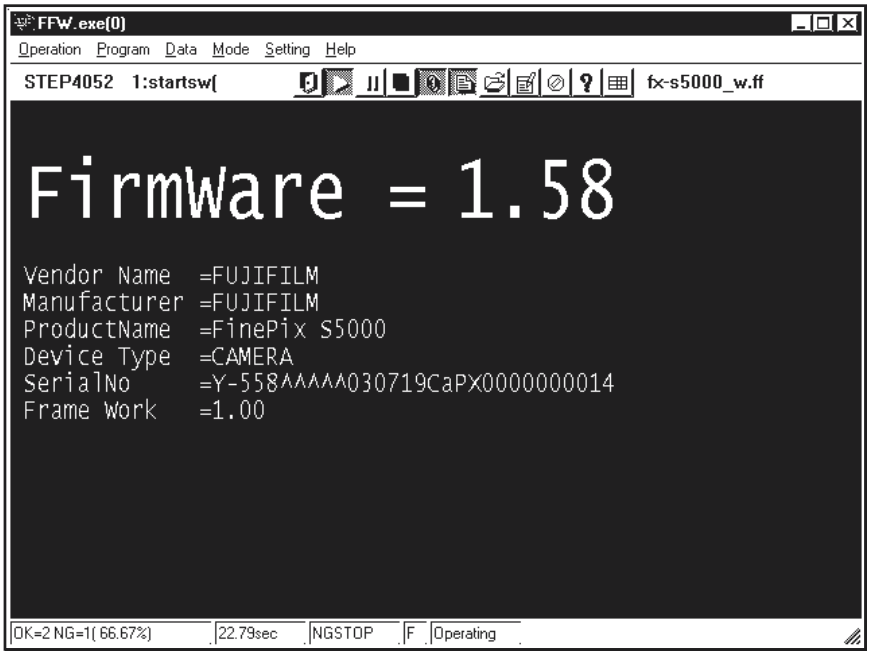


Fig.4

---> The **[Firmware Display Screen (Fig.4)]** appears. (Firmware Confirmation Screen)

<Step 5>

Press the Enter key.

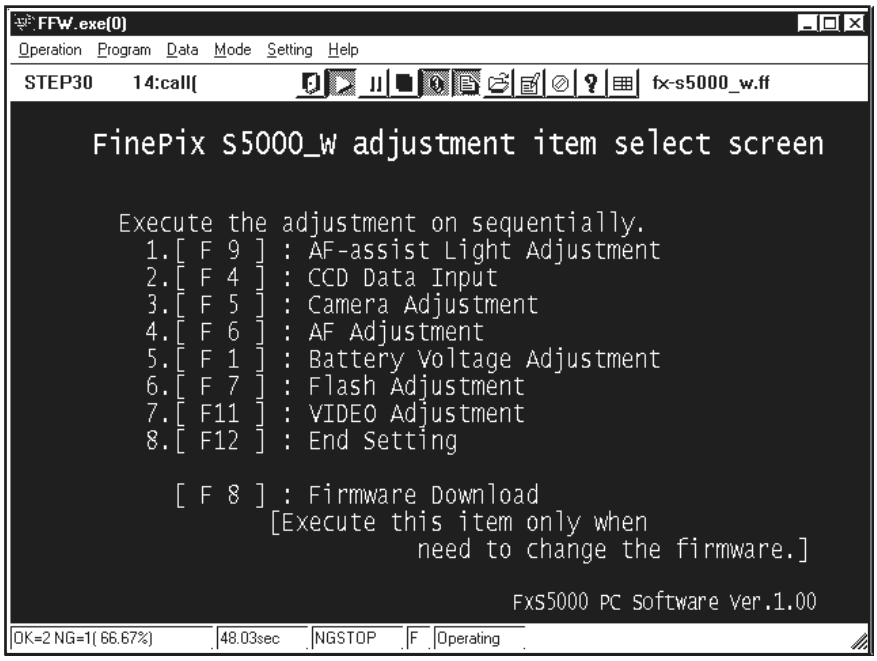


Fig.5

---> The **[Adjustment Items Select Screen (Fig.5)]** appears.

*** Adjustment Items**

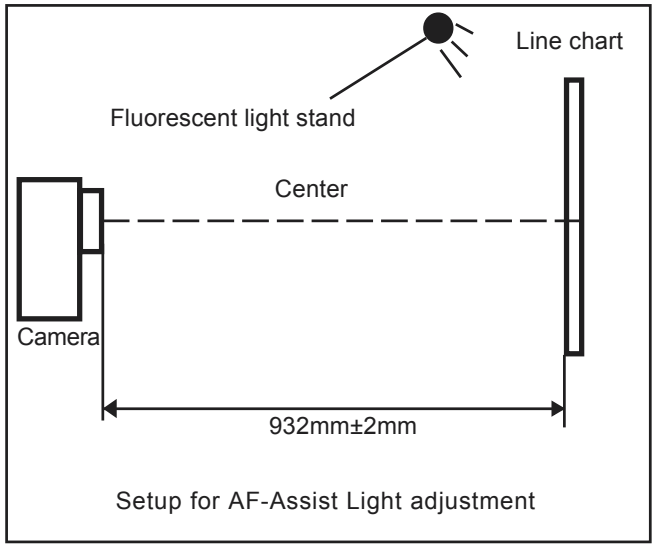
Adjustment items	Selection
AF-Asasist light adjustment	Press the [F 9] key.
CCD data input	Press the [F 4] key.
Camera adjustment	Press the [F 5] key.
AF adjustment	Press the [F 6] key.
Battery voltage adjustment	Press the [F 1] key.
Flash adjustment	Press the [F 7] key.
VIDEO adjustment	Press the [F11] key.
Firmware download	Press the [F 8] key.
End setting	Press the [F12] key.

4-10. [F9] : AF-Assist Light Adjustment

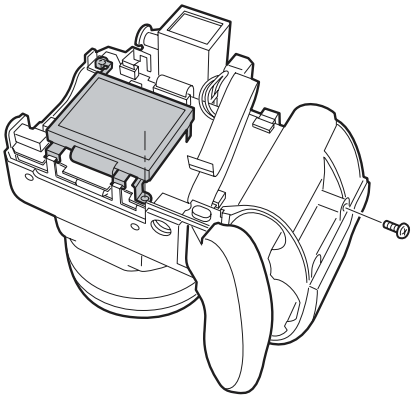
AF-Assist light Adjustment is required when the AF FRAME ASSY is removed.

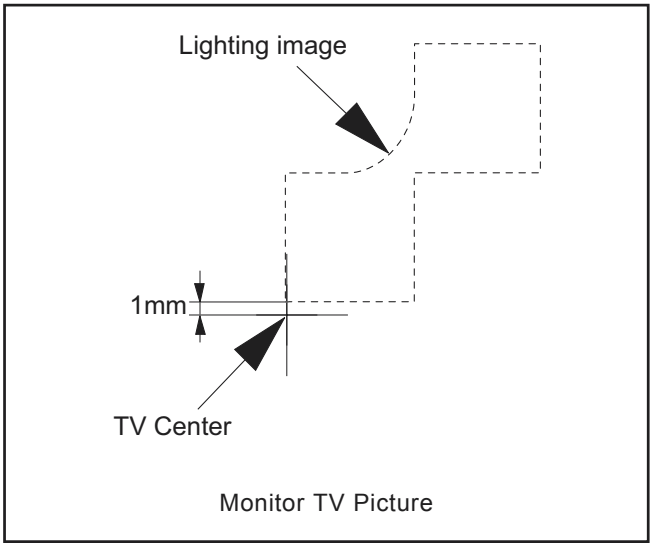
(1)Preparation for AF-Assist Light adjustment

1. Output the image to TV with a camera that works normally.
2. Apply the sign according to the mark of the center of the AF target [+].
3. Remove Cabinet R, and tighten one screw.

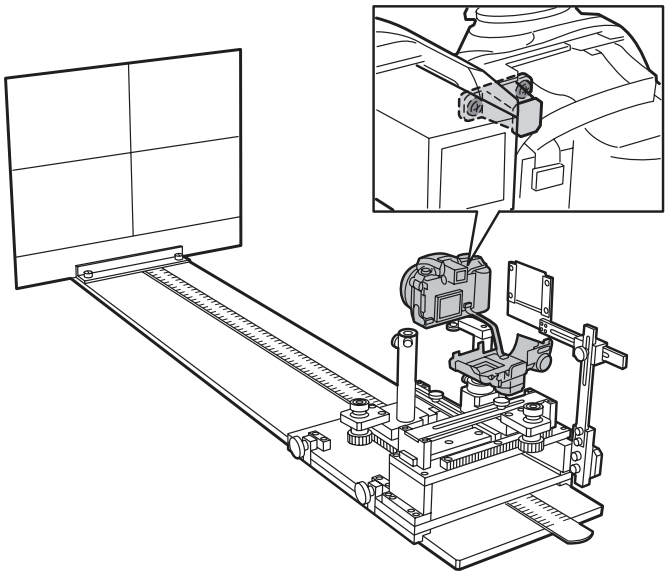


Setup for AF-Assist Light adjustment





Monitor TV Picture



<Step 1>

Select [F9] from the **[Adjustment Items Select Screen (Fig.5)].** (press [F9] on the PC keyboard)

---> The **[**AF-Assist light **adjustment Preparation Screen (Fig.6)]** appears.

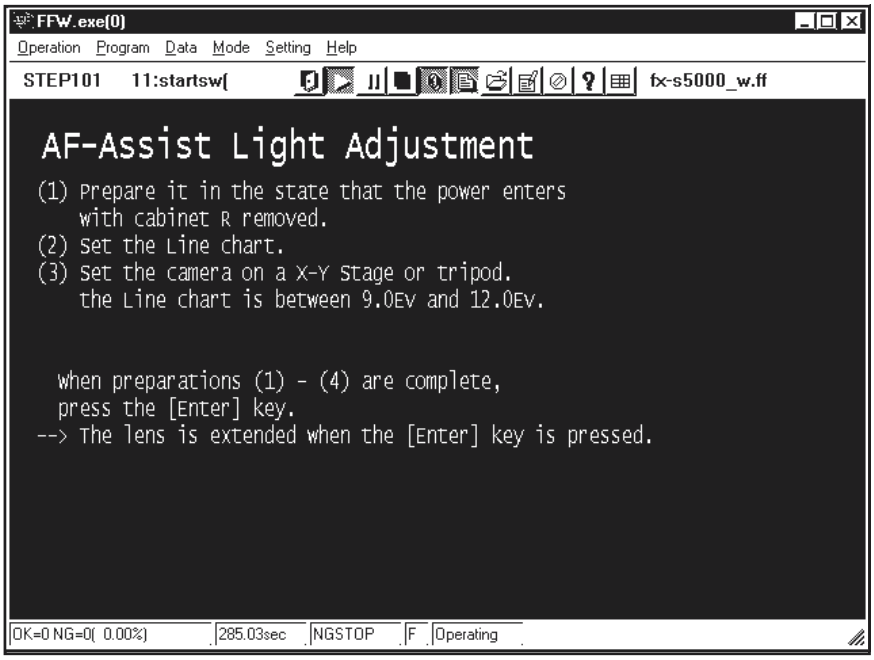


Fig.6

<Step 2>

When preparations are complete, press the Enter key.

---> The **[**AF-Assist light **adjustment Preparation Screen (Fig.7)]** appears.

<Step 3>

When preparations are complete, press the Enter key.

Caution:

When adjusting the camera, measure distance from the front face of the camera lens.

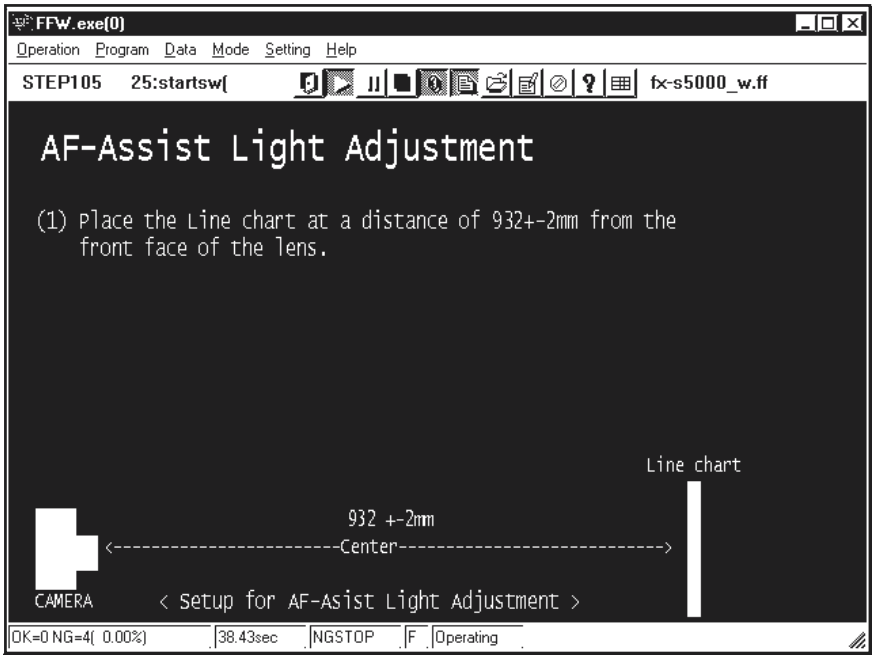


Fig.7

---> The **[**AF-Assist light **adjustment Screen (Fig.8)]** appears.

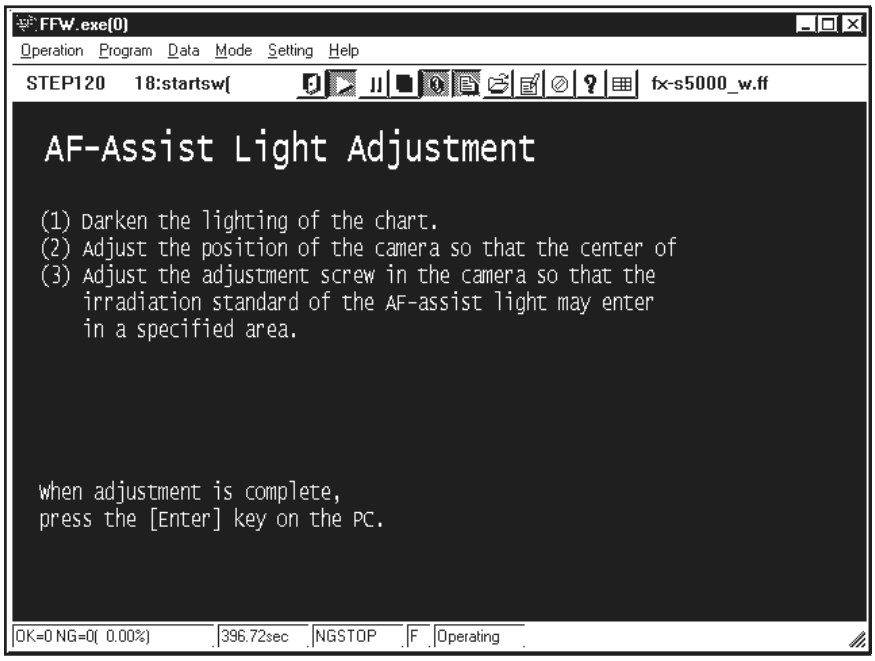


Fig.8

Adjust the adjustment screw in the camera so that the irradiation standard of the AF-assist light may enter in a specified area.

<Step 4>

When preparations are complete, press the Enter key.

---> The **[**AF-Assist light **adjustment complete Screen (Fig.9)]** appears.

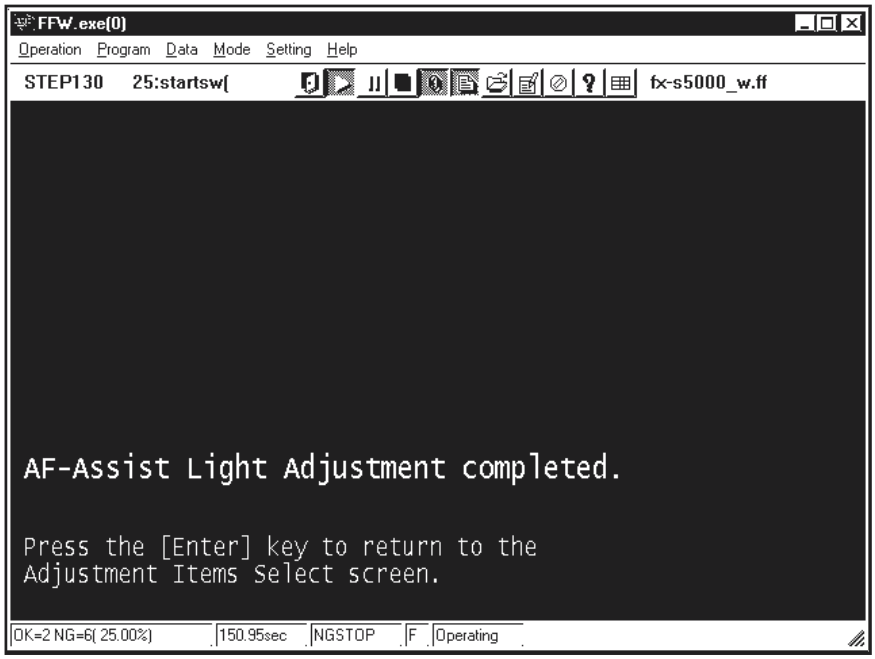


Fig.9

<Step 5>

Press the Enter key while in the [AF-Assist light adjustment Complete Screen (Fig.9)].

---> The system returns to the **[Adjustment Items Select Screen (Fig.5)].**

4-11. [F4] : CCD data input

(CCD data input,OFD adjustment)

CCD data input is required when the LENS ASSY or MAIN PWB ASSY is replaced.

[Obtaining CCD damage data]

1. When the LENS CONST has been replaced.
   The data is supplied with the new LENS CONST.
2. When the MAIN PWB ASSY has been replaced.
   Note the CCD serial No. on the camera to be adjusted, and copy the data with the same CCD Serial No. from the CCD data file to a floppy disk.

Creating a CCD data floppy disk when the MAIN PWB ASSY has been replaced.

* The following example assumes the use of the serial No. shown at right.(Fig.10-1)

<Step 1>

Note the CCD serial No. on the LENS CONST when replacing the MAIN PWB ASSY.

The numbers shown at right are as follows.

First line: 0302200 (seven digits)

Bottom line: 0280C(five digits)

The name of the CCD data file containing this number is **30220280.dat** (ie the first digit and the last two digits of the first line are discarded, and 2 to5 digits are used). The four digits from the top in the second line are then appended to form the CCD data file name. Record this file name.

Cautions:

1. The CCD damage data file extension is **'.dat'**. Depending upon Windows settings, this extension may not be displayed. In this case, change the settings to ensure that it is displayed.
2. In addition to numbers, letters are also used in the CCD serial No. The data file name is instructed in the same manner in this case.
3. Ensure that the CCD serial No. is read correctly. If the file name is read incorrectly CCD data for another camera will be loaded when this file is used.

<Step 2>

Download the ZIP file of top four digits from Web server (http://fujifilm-di.intranets.com/).

Open [ZJ00666-100(Fig.10-2-(1)] in the CCD defect data folder, and download "3022.zip[Fig.10-2-(2)]".

<Step 3>

Decompress "3022.zip".

-->"3022 folders" including "30220280.dat" is made.

<Step 4>

Insert a writable floppy disk into the floppy disk drive on the computer.

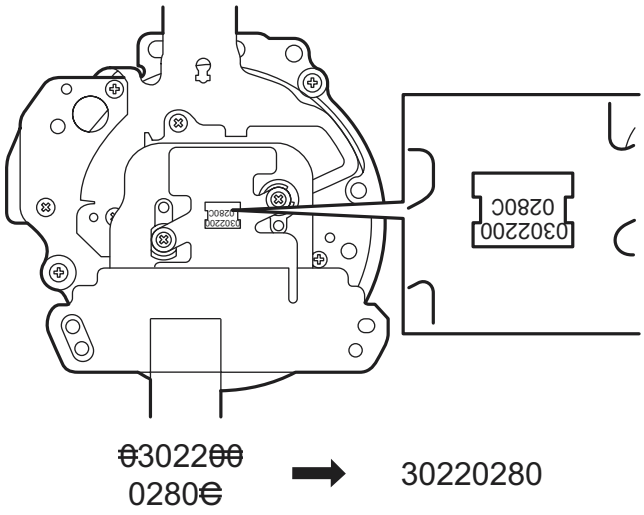
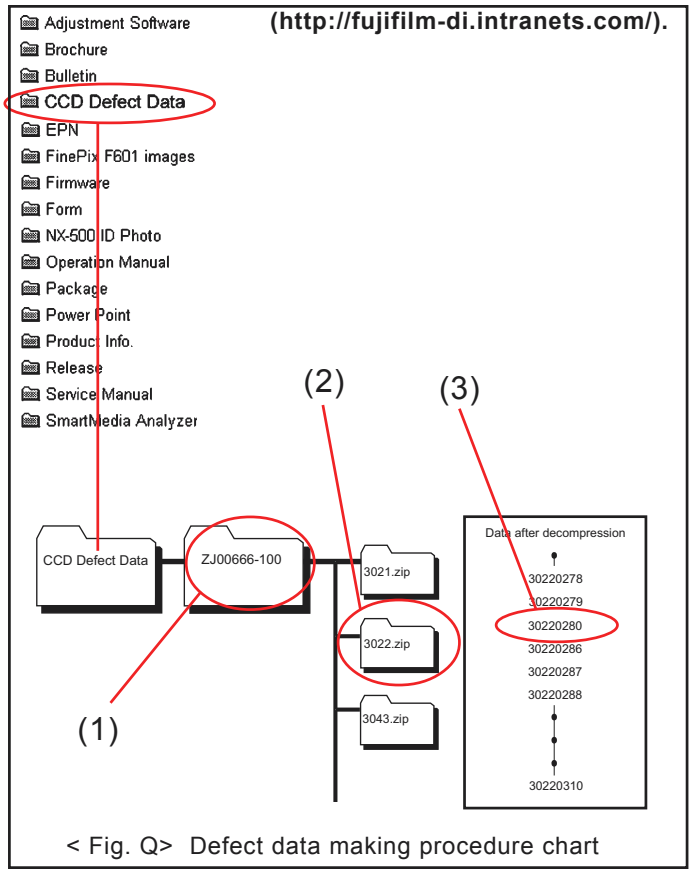


Fig.10-1



< Fig. Q> Defect data making procedure chart

Fig.10-2

<Step 5>

Open in "3022 folders", search for **"30220280.dat[Fig.10-2-(3)] "**, and copy it onto the floppy disk.

Caution:

1. Do not create a folder on the floppy disk when copying the data.

<Step 6>

Select [F4] from the **[Adjustment Items Select Screen (Fig.5)].** (press **[F4]** on the PC keyboard)

---> The **[CCD Data Input Start Screen (Fig.11)]** appears.

<Step 7>

Make the following preparations in accordance with the instructions on the [CCD Data input Start Screen (Fig.11)].

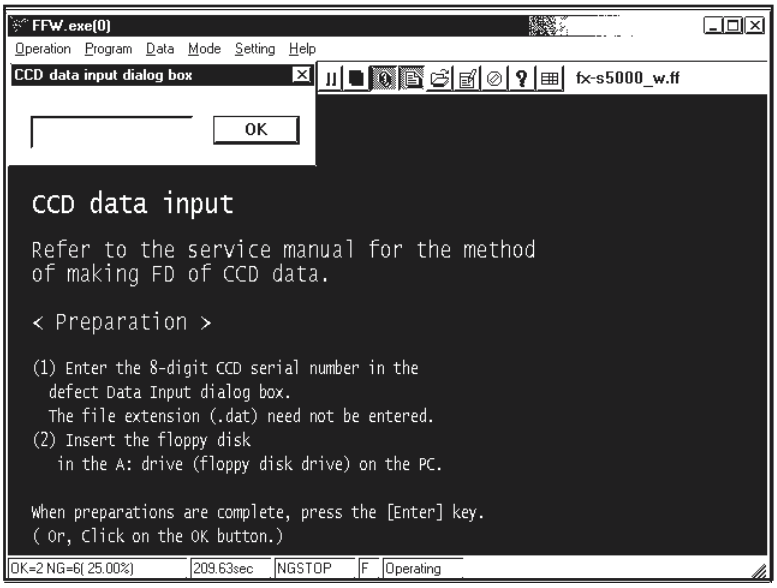
1 Prepare a floppy disk for the CCD data for the camera to be adjusted.

2 Enter the eight-digits CCD serial No. in the dialog box (the '.dat' file extension need not be entered).

3 Insert the CCD data floppy disk in the floppy disk drive (A: drive).

When preparations are complete, press the Enter key.

Click on the [OK] button.



---> CCD Data input begins.

---> When adjustment is completed satisfactorily, write the adjustment data to the Flash_ROM.

Fig.11

---> When the adjustment data is written satisfactorily to the Flash ROM the **[CCD Data Input Complete Screen (Fig.12)]** appears.

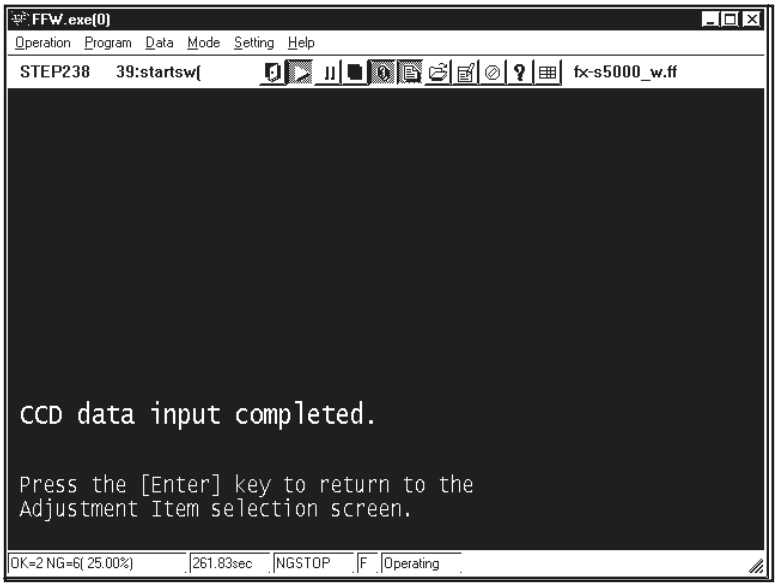


Fig.12

<Step 8>

Press the Enter key while in the [CCD Data input Complete Screen (Fig.12)].

---> The system returns to the **[Adjustment Items Select Screen (Fig.5)].**

Caution:

When CCD data input has been run, always ensure that adjustment is run in the following order. Camera adjustment ---> Flash adjustment.

4-12. [F5] : Camera adjustment

(shutter adjustment/aperture sensitivity reduction rate adjustment/ISO sensitivity adjustment/white balance adjustment/ AE shading adjustment/offset level adjustment)

Run the adjustment in accordance with the instructions on the screen.

<Step 1>

Select [F5] from the **[Adjustment Items Select Screen (Fig.5)].** (press [F5] on the PC keyboard)

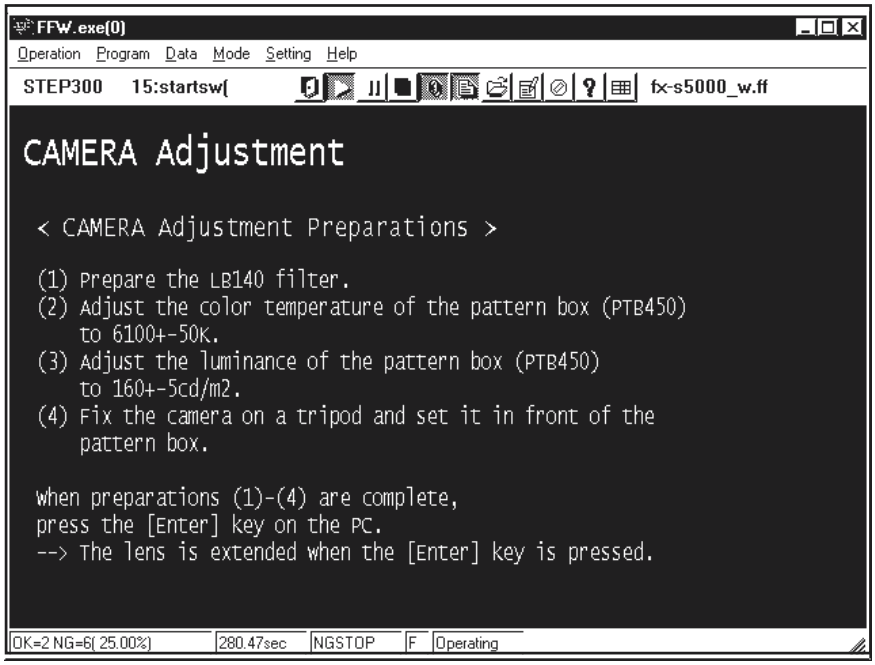


Fig.13

---> The **[Shutter Adjustment Preparation Screen (Fig.13)]** appears.

Caution:

When adjusting the camera, measure distance from the front face of the camera lens.

<Step 2>

When preparations are complete, press the Enter key.

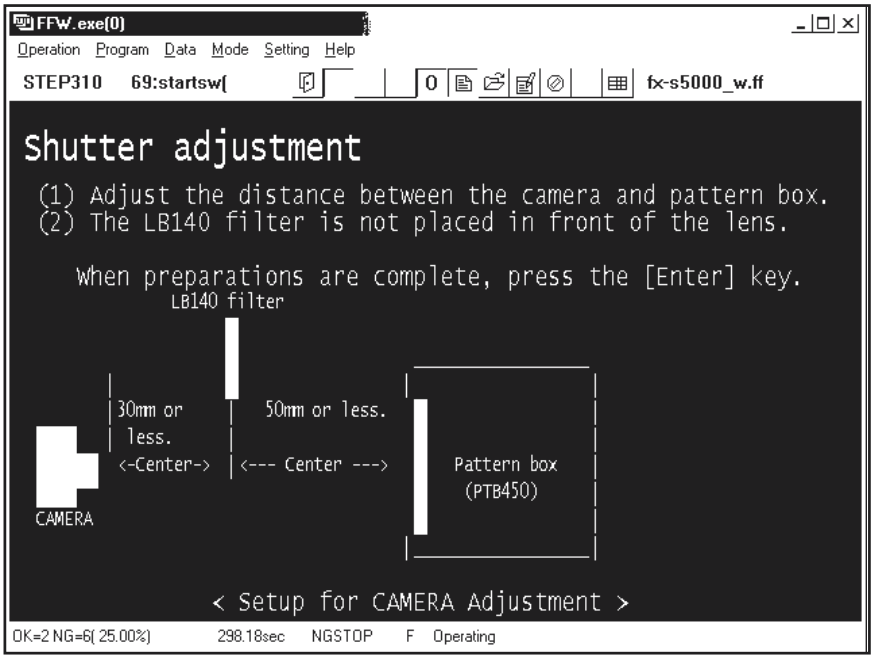


Fig.14

---> **Camera adjustment** begins.

<Step 3>

Fit the LB140 filter in accordance with the instructions on the screen (Fig.15).

When preparations are complete, press the Enter key.

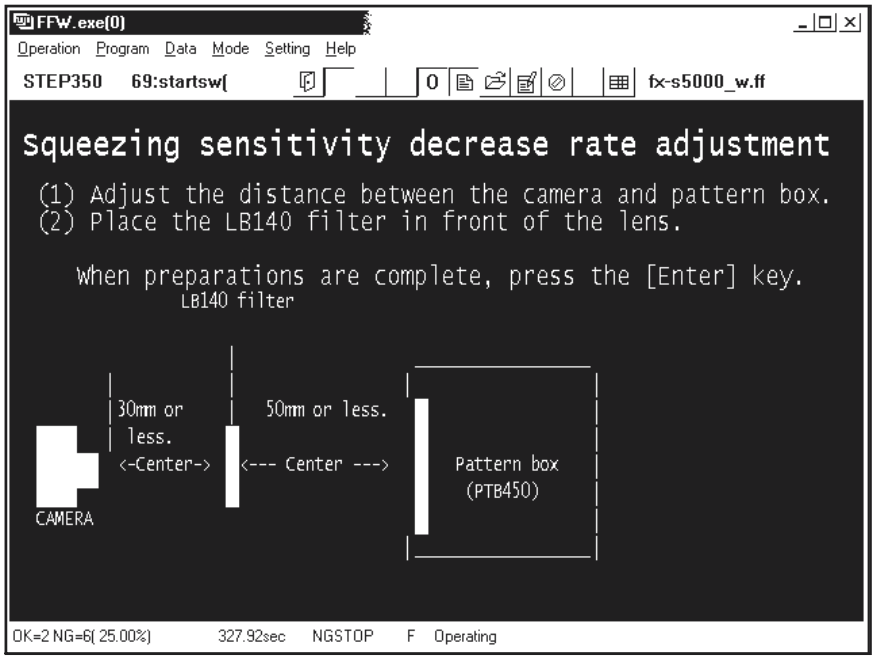


Fig.15

---> **Camera adjustment** moves to the next stage.

<Step 4>

Remove the LB140 filter in accordance with the instructions on the screen (Fig.16).

When preparations are complete, press the Enter key.

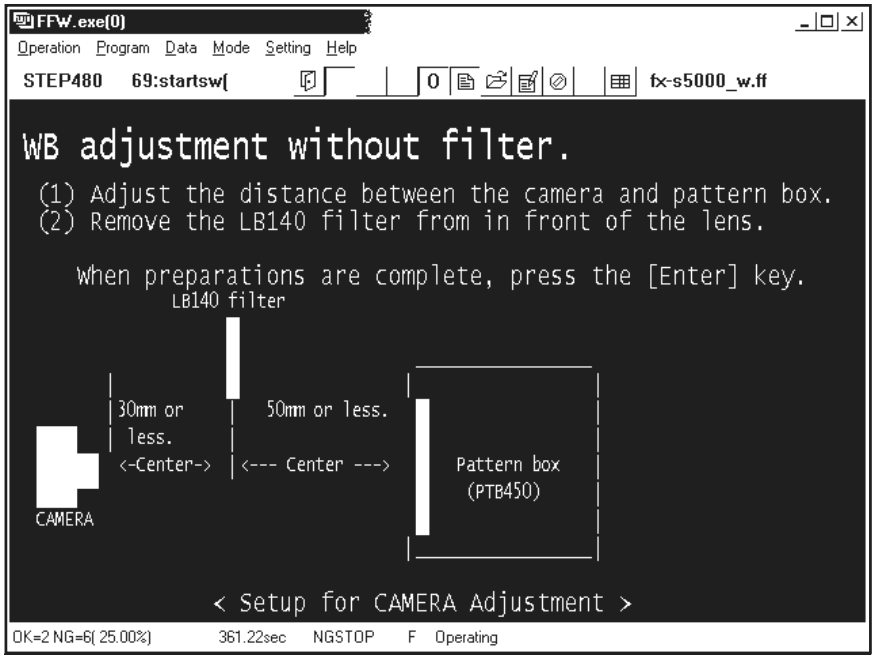


Fig.16

---> **Camera adjustment** moves to the next stage.

<Step 5>

The screen in Fig.17 appears when adjustment is completed satisfactorily.

Press the Enter key.

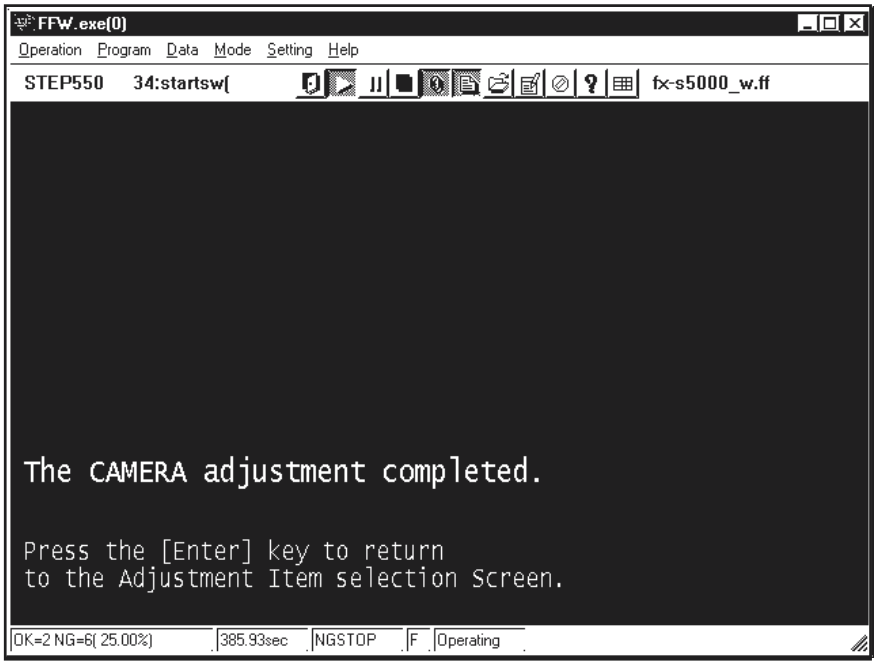


Fig.17

---> The system returns to the **[Adjustment Items Select Screen (Fig.5)].**

Camera adjustment is completed.

4-13. [F6] : AF adjustment

(backlash adjustment/zoom reset adjustment/AF adjustment)

Run the adjustment in accordance with the instructions on the screen.

Caution:

1. When adjusting the camera, measure distance from the front face of the camera lens.
2. After replacing the LENS CONST or MAIN PWB ASSY, always run AF adjustment after camera adjustment.
3. Do not conect VIDEO cable while adjusting AF.

<Step 1>

Select [F6] from the **[Adjustment Items Select Screen (Fig.5)].**
(press [F6] on the key board)

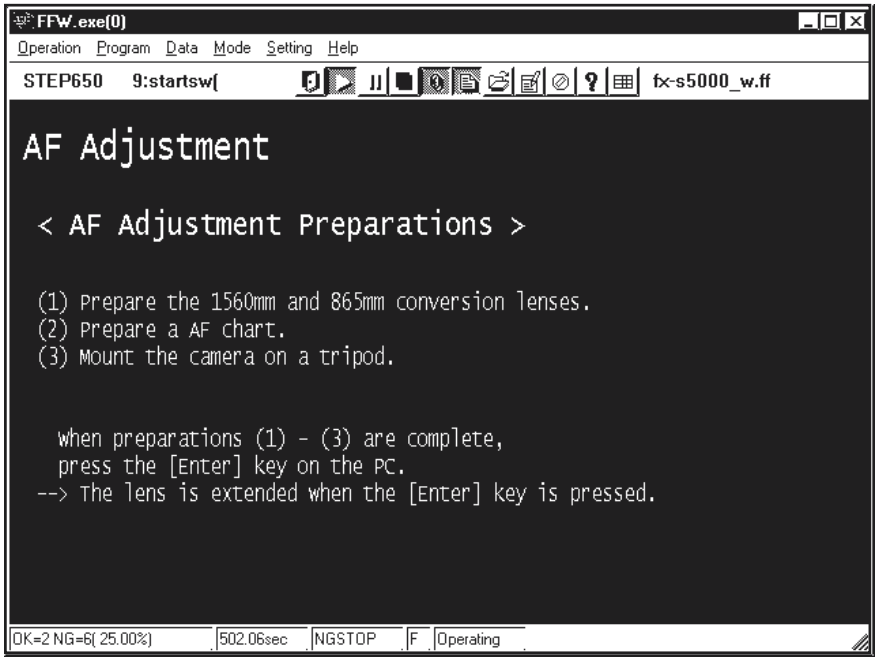


Fig.18

---> The **[AF Adjustment Preparation Screen (Fig.18)]** appears.

<Step 2>

When preparations are complete, press the Enter key.

--->The **[AF Adjustment Start screen(Fig19)]** appears.

<Step 3>

When preparations are complete, press the Enter key.

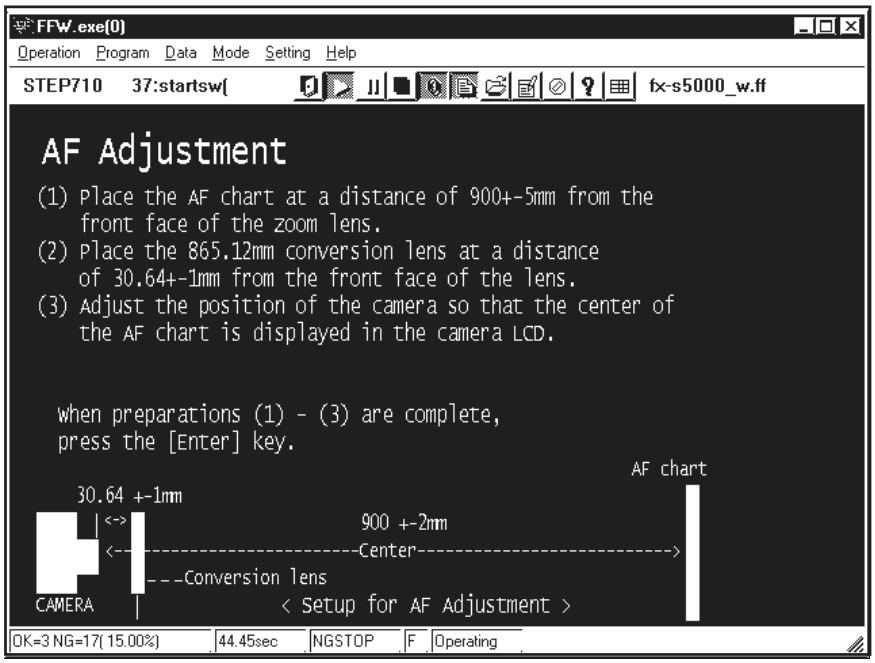


Fig.19

--->The **[AF 2000mm Adjustment screen(Fig20)]** appears.

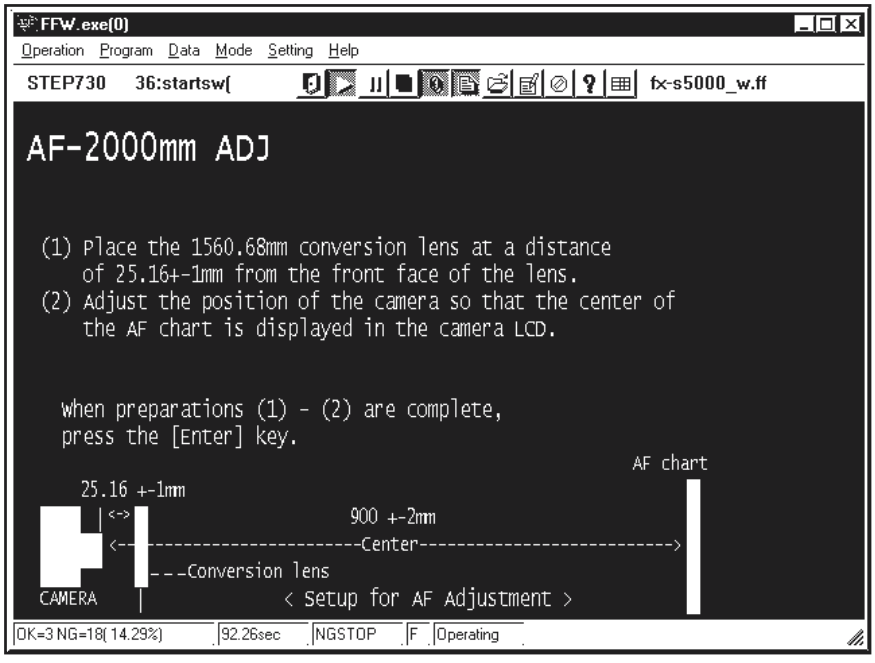


Fig.20

<Step 4>

When preparations are complete, press the Enter key.

--->The **[AF 900mm Adjustment Start screen(Fig21)]** appears.

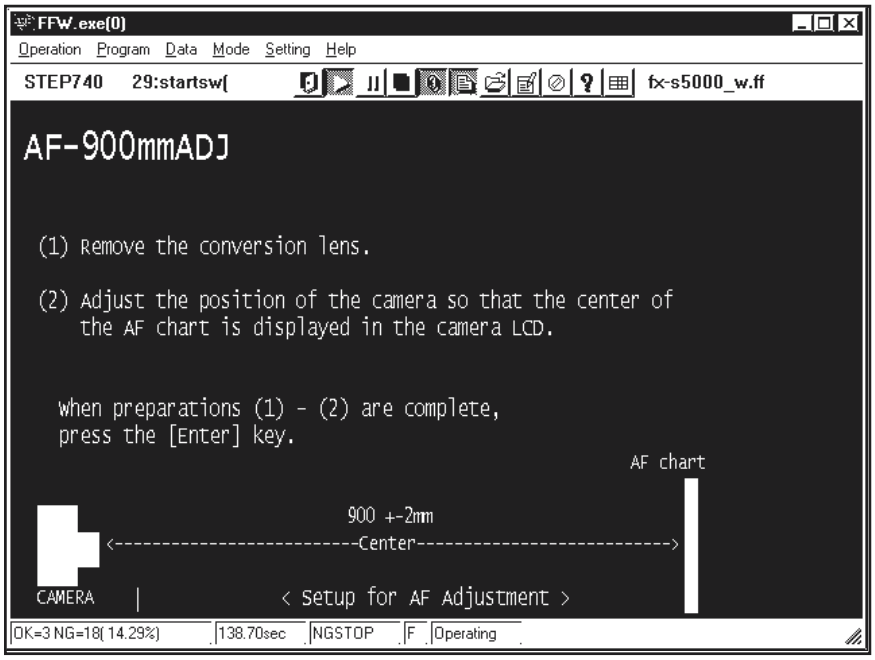


Fig.21

<Step 5>

When preparations are complete, press the Enter key.

---> Adjustment proceeds to backlash adjustment, zoom reset adjustment, and AF adjustment, and the **[AF Adjustment Complete Screen (Fig.22)]** appears.

Fig.22

<Step 6>

Press the Enter key.

---> The system returns to the **[Adjustment Items Select Screen (Fig.5)]**.

AF adjustment is now complete.

4-14. [F1] : Battery voltage adjustment

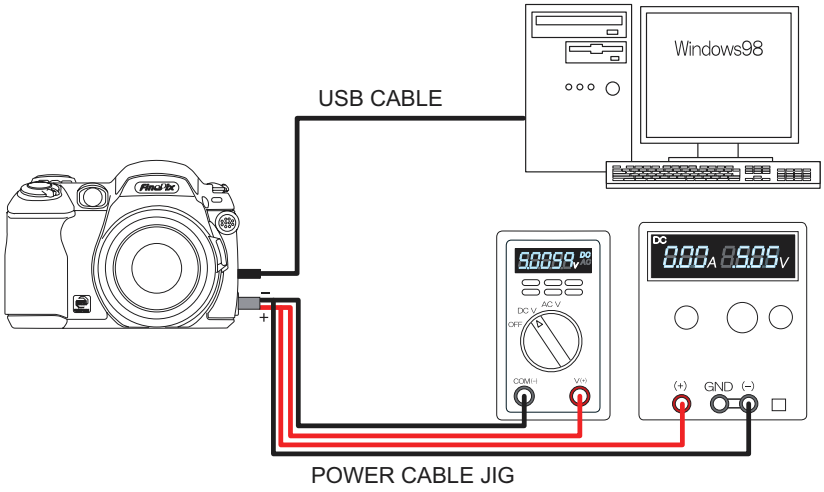
Caution:

1. When running battery adjustment, supply power (3V) to the camera using **the Battery jig** before setting the camera to the Jig mode.
2. Always measure input voltage close to the battery connector.
3. When reducing voltage, ensure that it is not reduced excessively from the measured value, and adjust the regulated power supply. Failure to do so may result in interruption of communication between the adjustment software and the camera, and the adjustment software may produce an error. Restart the adjustment software in this case.

Run the adjustment in accordance with the instructions on the screen.

<Step 1>

1. Connect as shown in the connection diagram.



2. Place the camera lens upwards (as the lens will operate, care is required).

   When preparations are complete, select **[F1]** from the **[Adjustment Items Select Screen (Fig.5)]**.

(press the [F1] key on the keyboard)

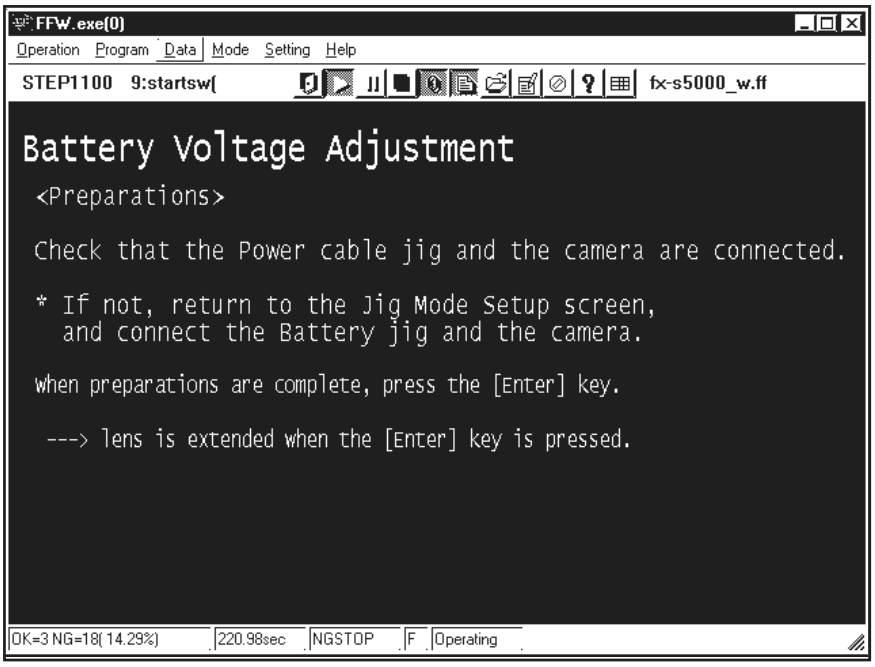


Fig.23

---> The **[Battery Voltage Preparation Screen (Fig.23)]** appears.

<Step 2>

When preparations are complete, press the Enter key.

---> The **[Battery Voltage Setting Screen 2.15V (Fig.24)]** appears.

<Step 3>

Set input voltage (battery preend voltage adjustment), and press the Enter key.

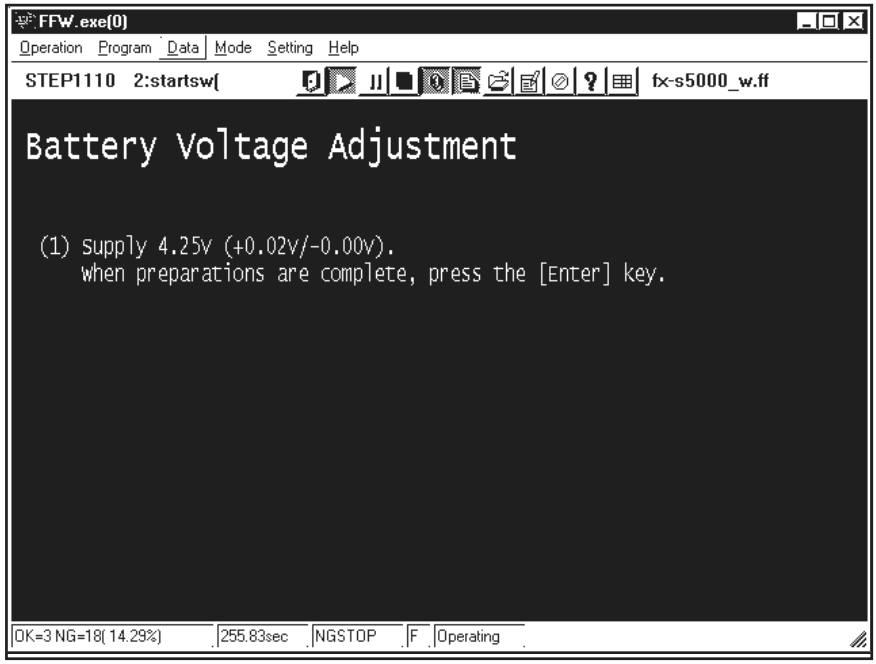


Fig.24

---> The **[Battery Voltage Setting Screen 2.05V (Fig.25**)] appears.

<Step 4>

Set input voltage at (battery end voltage adjustment), and press the Enter key.

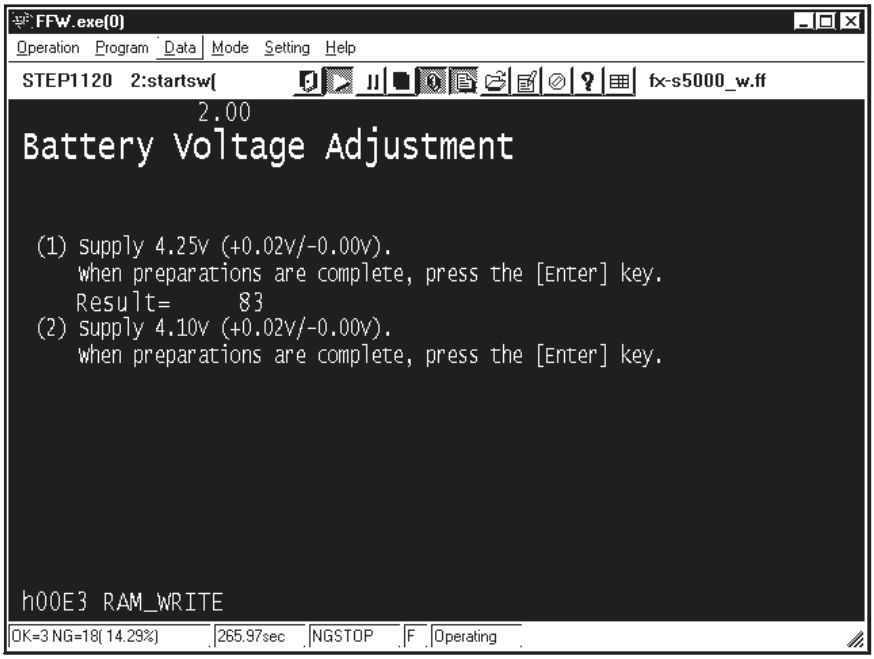


Fig.25

---> The **[Battery Voltage Setting Screen 3.00V (Fig.26)]** appears.

<Step 5>

Set input voltage at **3.00V**, and press the Enter key.

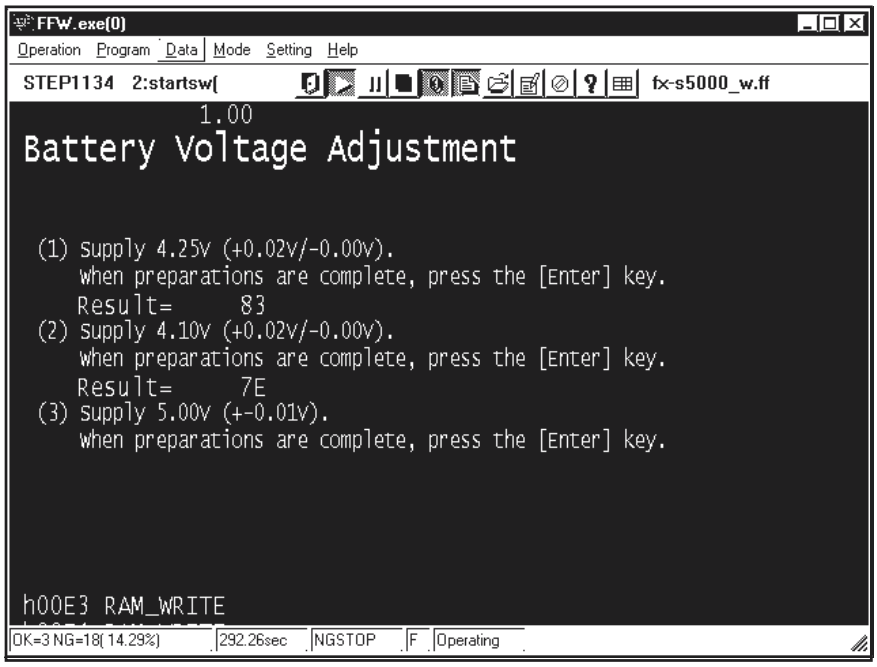


Fig.26

---> The **[Battery Voltage Setting Complete Screen (Fig.27)]** appears.

<Step 6>

Press the Enter key.

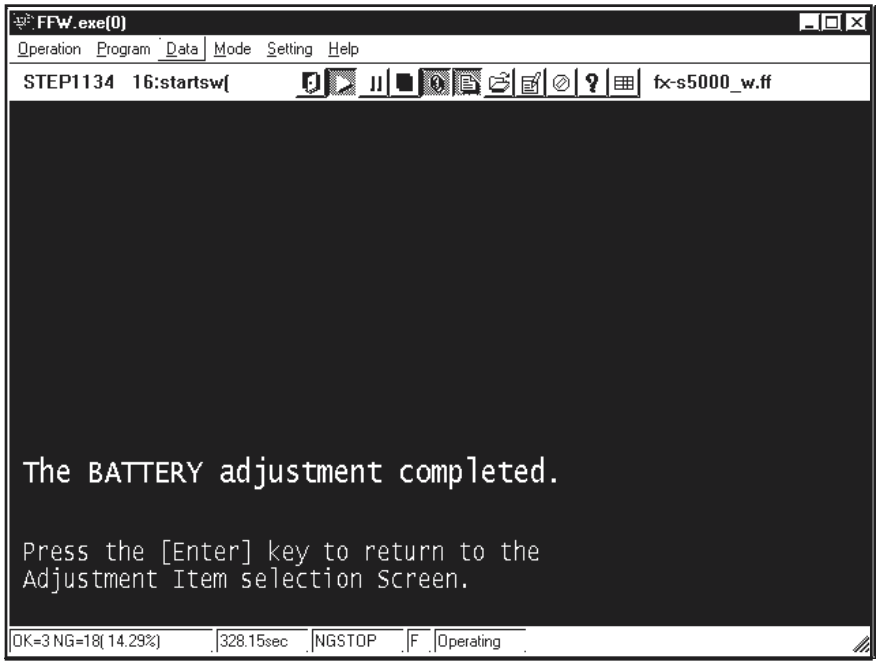


Fig.27

---> The system returns to the **[Adjustment Items Select Screen (Fig.5)].**

Battery voltage adjustment is completed.

4-15. [F7] : Flash adjustment

Caution:

1. Flash adjustment is readily influenced by external light. The periphery of the gray chart should therefore be as dark as possible to minimize this influence.
2. When adjusting the flash, measure distance from the front of the camera body.
3. Always run flash adjustment after completing CAMERA adjustment.

Run the adjustment in accordance with the instructions on the screen.

<Step 1>

Select **[F7]** from the **[Adjustment Items Select Screen (Fig.5)].**
(press the [F7] key on the keyboard)

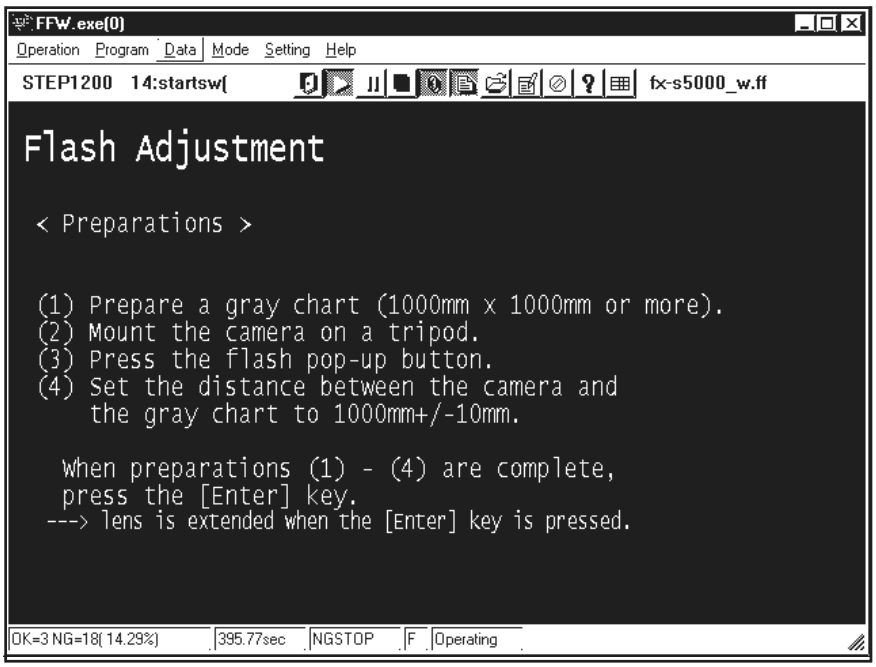


Fig.28

---> The [**Flash Adjustment Preparation Screen (Fig.28)]** appears.

<Step 2>

When preparations are complete, press the Enter key.

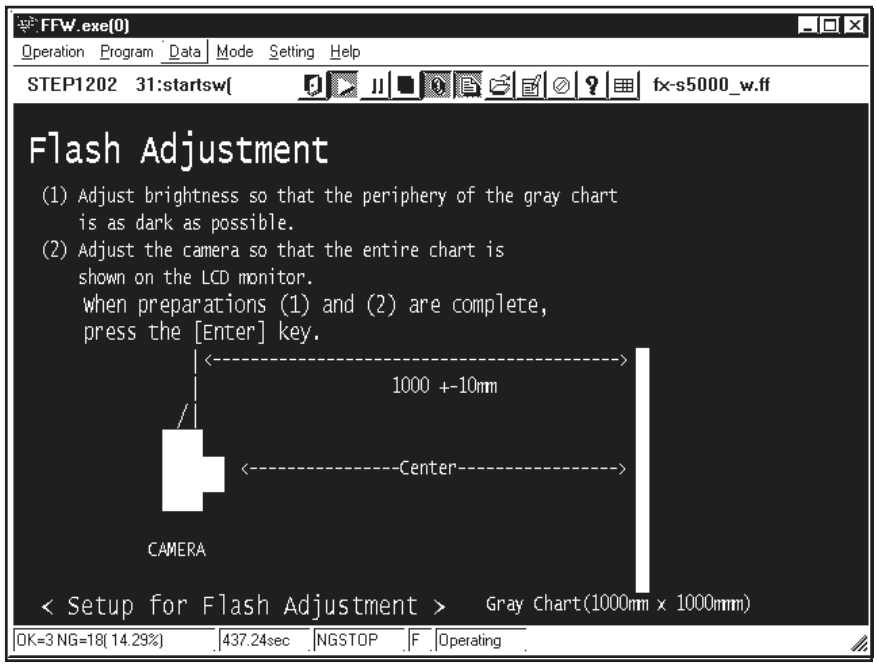


Fig.29

--->The **[Flash Adjustment start Screen (Fig.29)]** appears.

<Step 3>

When preparations are complete, press the Enter key.

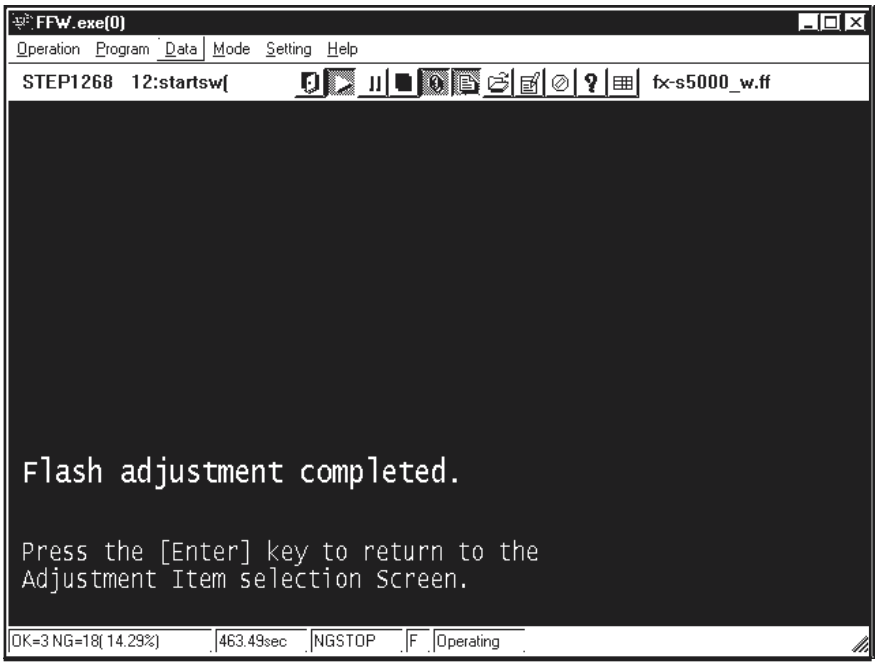


Fig.30

--->The **[Flash Adjustment Complete Screen (Fig.30)]** appears.

<Step 4>

Press the Enter key.

---> The system returns to the **[Adjustment Items Select Screen (Fig.5)].**

Flash adjustment is complete.

4-16. [F11] : VIDEO Adjustment

<Note>

1. Refer to the Setup Manual supplied with the jig for details of setting up the VIDEO adjustment jig with the PC.
2. **Restart the camera before adjustment.**

Run the adjustment in accordance with the instructions on the screen.

<Step 1>

1. Connect as shown in the connection diagram.
   Select [F11] VIDEO Adjustment on the [Adjustment Items Select] screen (Fig.5).

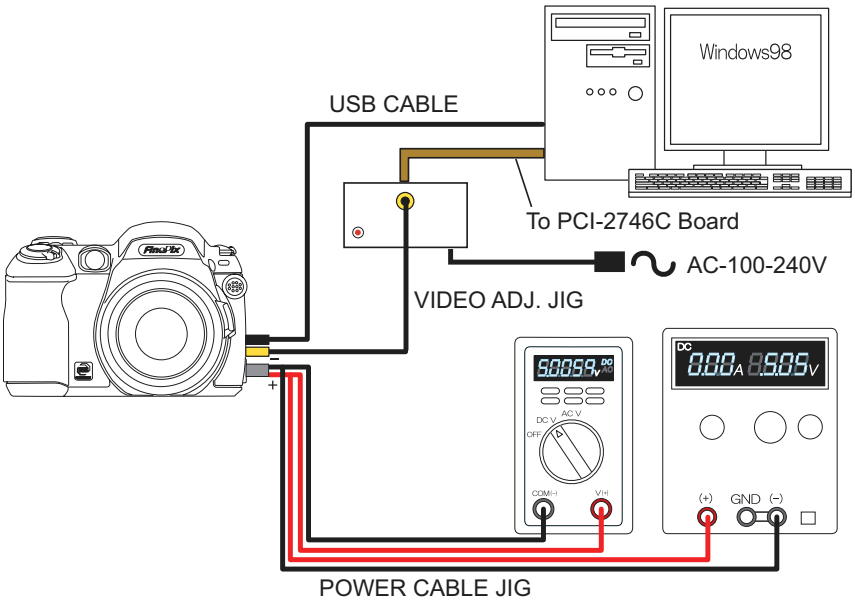


Fig.31

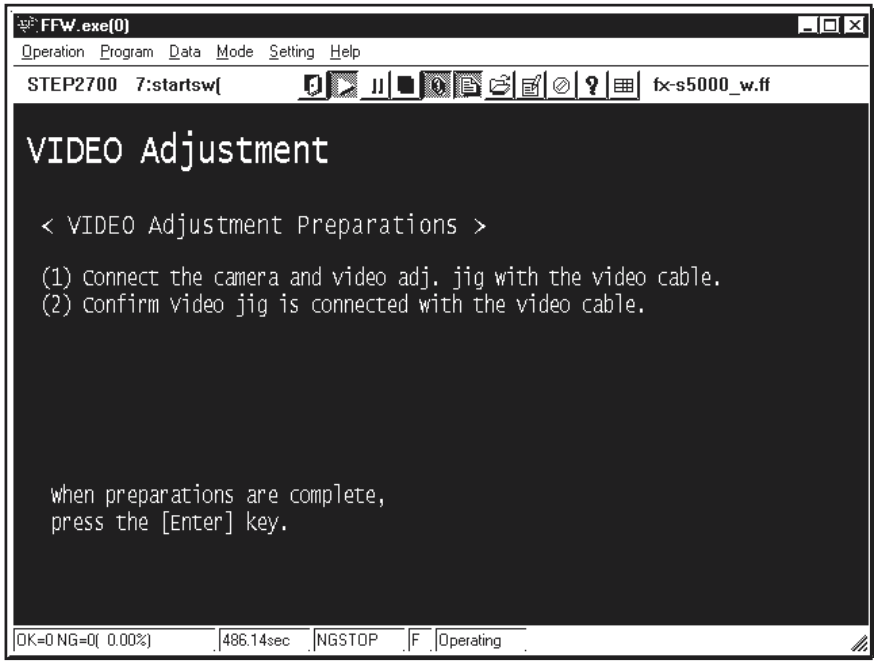


Fig.32

--->The **[VIDEO Adjustment Preparation screen (Fig.32)]** appears.

<Step 2>

When preparations are complete, press the Enter key.

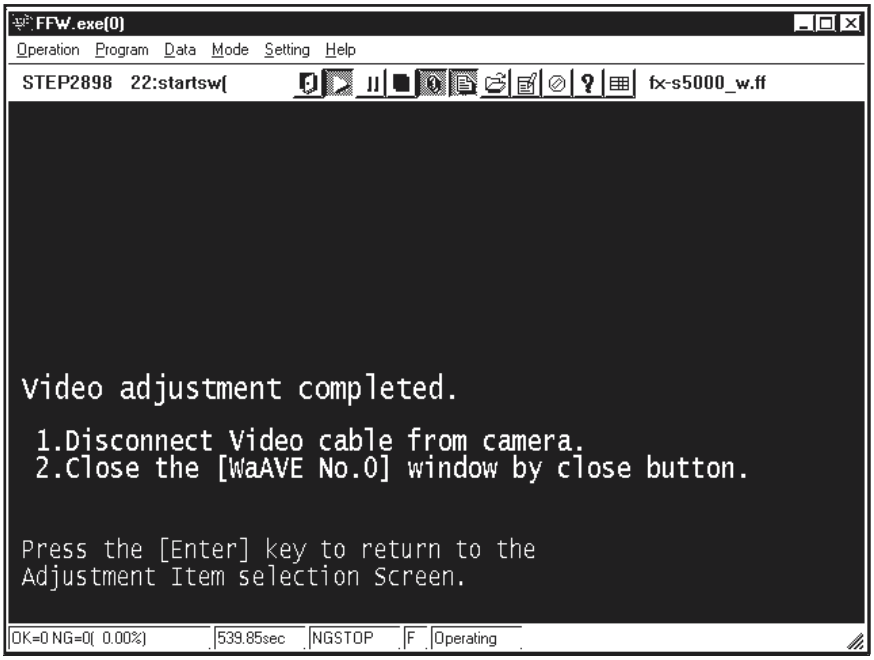


Fig.33

--->The **[VIDEO Adjustment Complete screen (Fig.33)]** appears.

<Step 3>

Press the Enter key.

---> The system returns to the **[Adjustment Items Select Screen (Fig.5)].**

VIDEO adjustment is completed.

4-17. [F8] : Firmware Download

Caution:

Check the firmware version by setting the camera in the Jig mode and checking on the displayed [**Firmware Version Check Screen (Fig.4)]**.

<Step 1>

Select **[F8]** from the **[Adjustment Items Select Screen (Fig.5)]**.
(press the [F8] key on the keyboard)

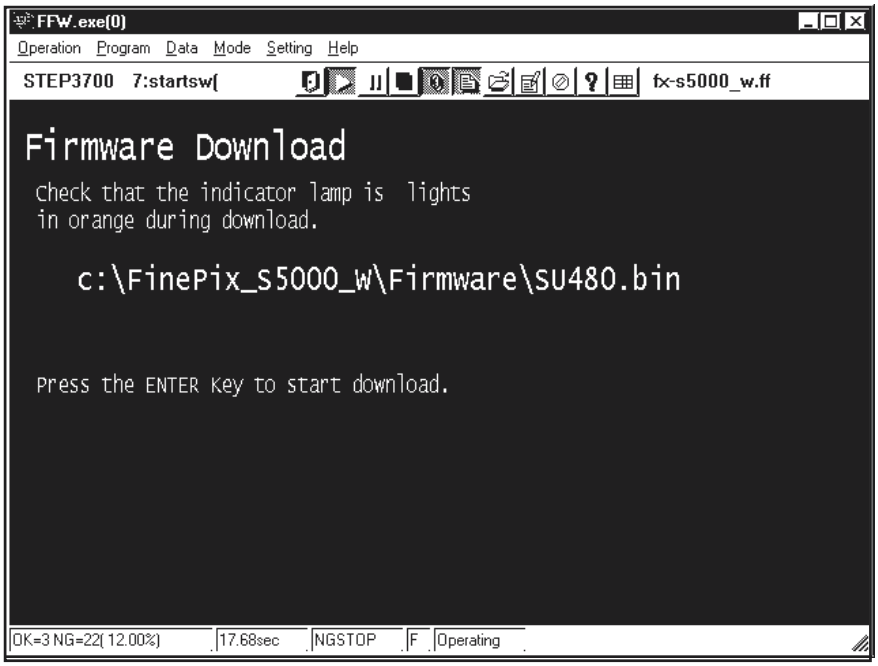


Fig.34

---> The [**Download start Screen (Fig.34**)] appears.

<Step 2>

Follow the instructions on the [Download start Screen (Fig.28)], and press the Enter key.

Fig.35

---> The **[Downloading Screen (Fig.35)]** appears.

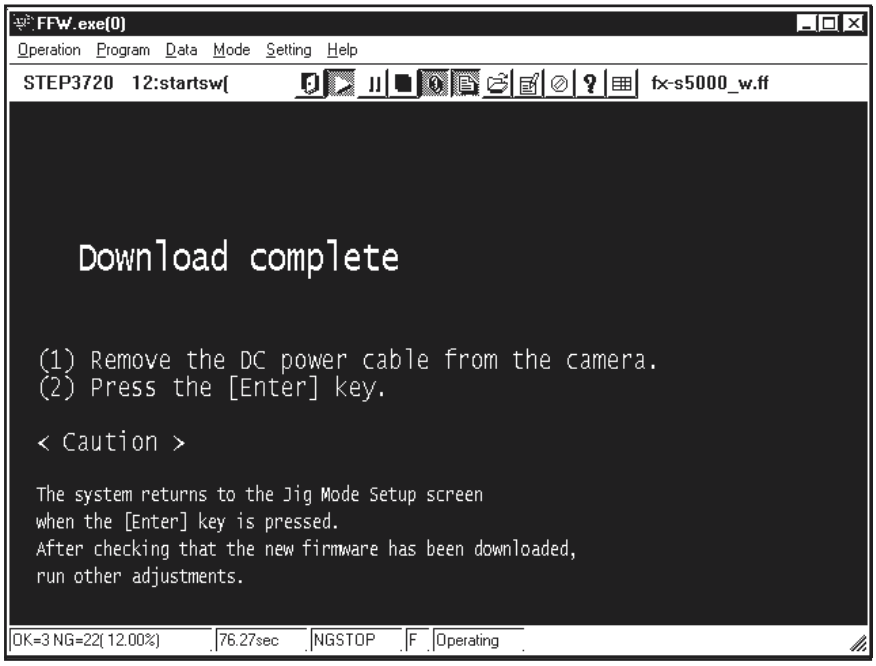


Fig.36

---> The **[Downloading Complete Screen (Fig.30)]** appears.

<Step 3>

Follow the instructions on the [Downloading Complete Screen (Fig.36)], and do the following.

1. Remove the DC jack from the camera.
2. Press the Enter key.

---> The **[Jig Mode Setup Screen (Fig.2)].**

* The camera is started with the new firmware when power is switched OFF/ON.

<Step 4>

The [Jig Mode Setup Screen (Fig.2)], set the camera in the jig mode, and press the Enter key twice.

---> The **[Firmware Version Check Screen (Fig.4)]** appears.
(this screen displays the upgraded version)

<Step 5>

Press the enter key while in the [Firmware Version Check Screen (Fig.4)].

---> The **[Adjustment Items Select Screen (Fig.5)]** appears.

<Step 7>

Select another adjustment item on the [Adjustment Items Select Screen (Fig.5)] if necessary, or select End setting if no more adjustments are required.

4-18. [F12] : End Setting

(Destination setting, USB ID write, Product mode setting)

1. The End setting consist of the following settings.
 * Destination setting
 * USB ID write
 * Product mode setting (mass storage identification)
2. The setting must always be run when the adjustment software is terminated. Failure to run Terminal Setting will prevent identification as Mass Storage when the camera is connected to the PC.
3. USB ID write details
 1) USB ID write requires that the USB device (in this case FinePix A303) be unique throughout the world. For this reason, each device has a unique ID as determined by the USB standard. If multiple devices with the same USB ID are connected to a single PC, the PC will be unable to identify each USB device, thus preventing operation.

2) Automatically written USB IDs are as follows.

Item	Details
Repair Date	Date information is acquired from the PC and written.
Administrator ID	C(43)
Repair Site	Sapporo:30(0)
	Sendai:31(1)
	Tokyo:33(3)
	Nagoya:34(4)
	Osaka:35(5)
	Hiroshima:37(7)
	Fukuoka:38(8)
	U.S.A.:61(a)
	Canada:62(b)
	Hawaii:63(c)
	Taiwan:64(d)
	China:74(t)
	England:66(f)
	Germany:67(g)
	France:68(h)
	Spain:69(i)
	Italy:6A(j)
	Netherlands:6B(k)
	Belgium:6C(l)
	Sweden:6D(m)
	Switzerland:6E(n)
	Norway:6F(o)
	Finland:70(p)
	Singapore:71(q)
	Others:7A(z)
Repair SerialNo.	A serial No. is assigned automatically and written

Numbers in ( ) indicate decimal numbers. Other numbers are ASCII numbers.

<Step 1>

Select **[F12]** from **[Adjustment item Select Screen (Fig.5)]** (ie press the [F12] key on the computer).

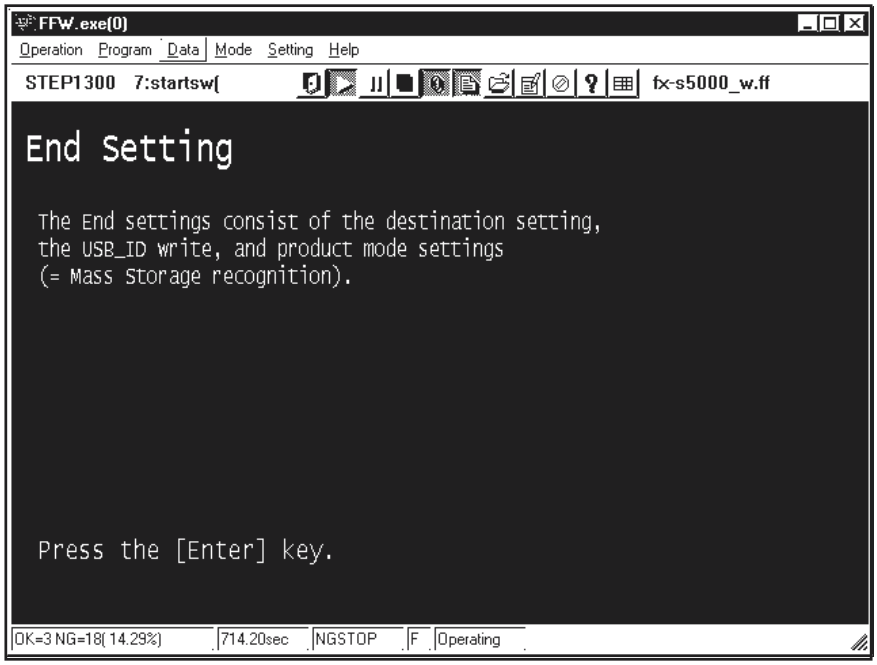


Fig.37

---> The **[End Setting Start Screen (Fig.37)]** is appears.

<Step 2>

Follow instructions on the [End Setting Start Screen (Fig.31)], and press the [Enter] key.

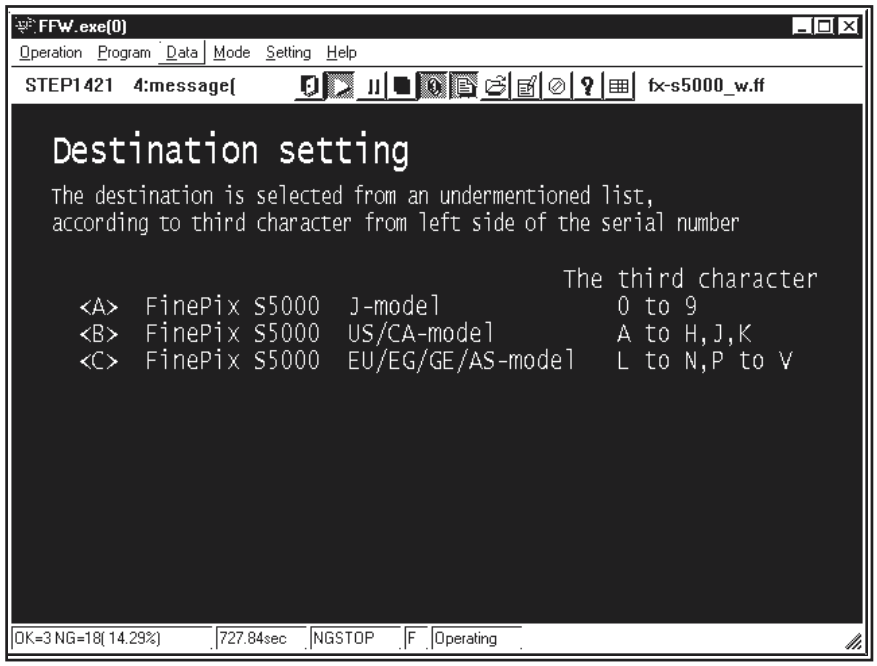


Fig.38

---> The **[Destination Setting Screen (Fig.38)]** is appears.

The third character from left side of the serial number shows the destination.
Select it according to the destination.
Press the [B] key to select US/CA-model, Press the [Enter] key.

* This example uses Destination B as the US/CA-model.

<Step 3>

---> The **[Destination Selected Screen (Fig.39)]** is appears.

Press the [Enter] key.

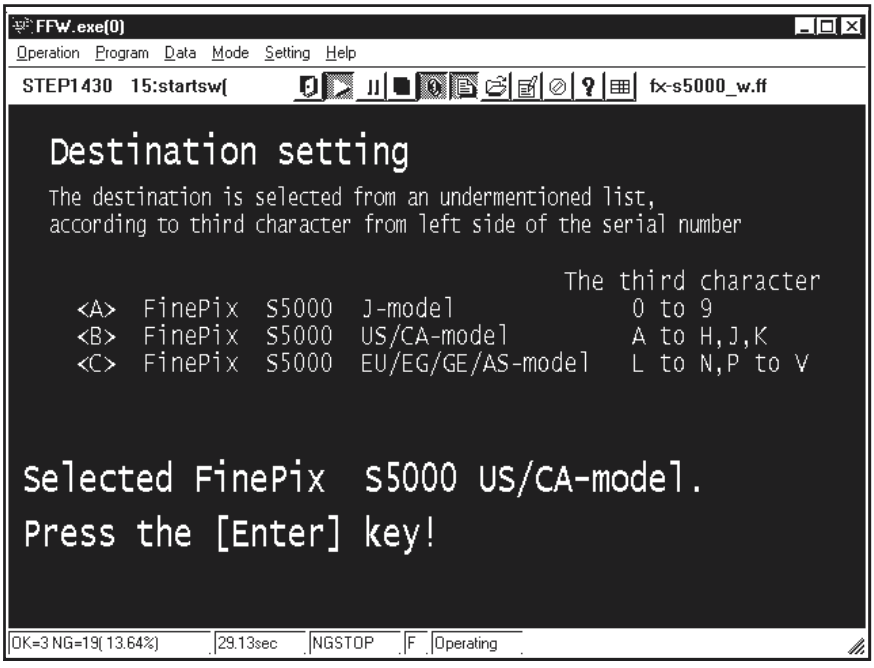


Fig.39

<Step 4>

Follow instruction on the [Repair site Select Screen (Fig.40)], and press the [H] key.

* This example uses USA site.

Fig.40

---> The **[USB ID USA site selected Screen (Fig.41)]** is appears.

<Step 5>

Press the [Enter] key.

Fig.41

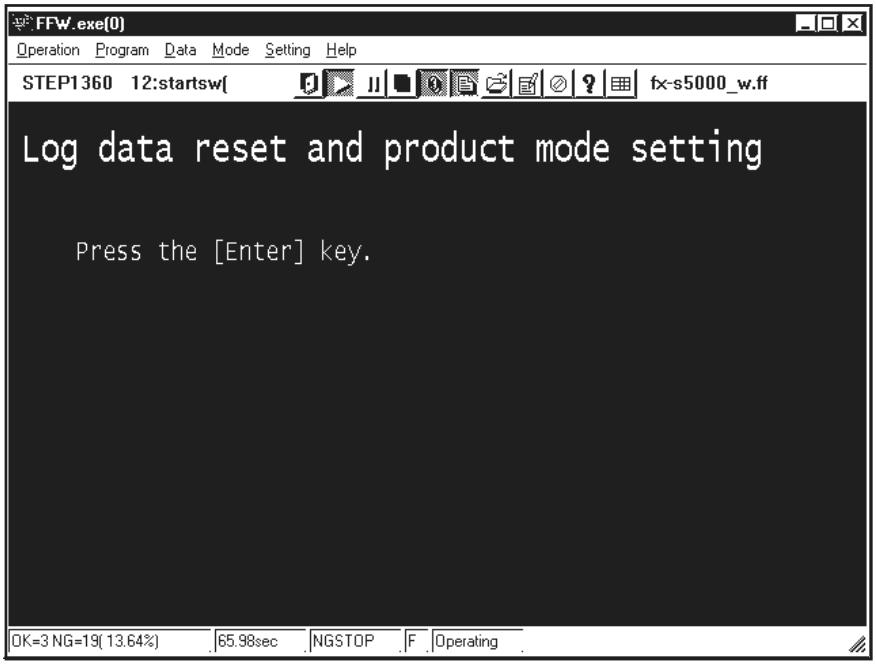


Fig.42

---> The **[Log data reset and Product Mode Setting Screen (Fig.42)]** is appears.

<Step 6>

Press the [Enter] key while in the [Product Mode Setting Screen (Fig.42)].

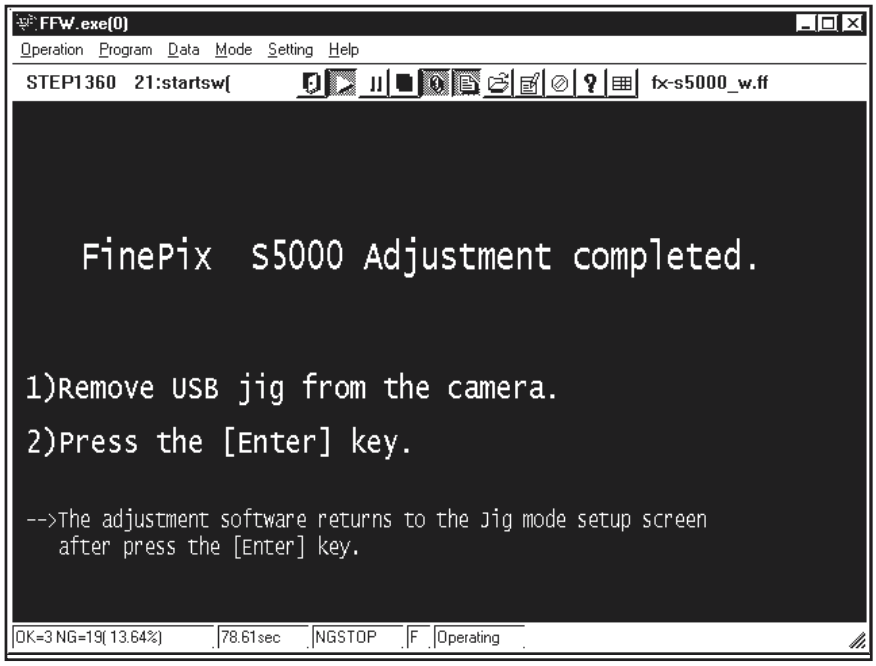


Fig.43

---> When the settings are completed normally they are saved to the flash ROM,

and the **[FinePix S5000 Adjustment finished Screen (Fig.43)]** is appears.

<Step 8>

1. Remove jig and all cables from the camera.
2. Press the [Enter] key on the PC.

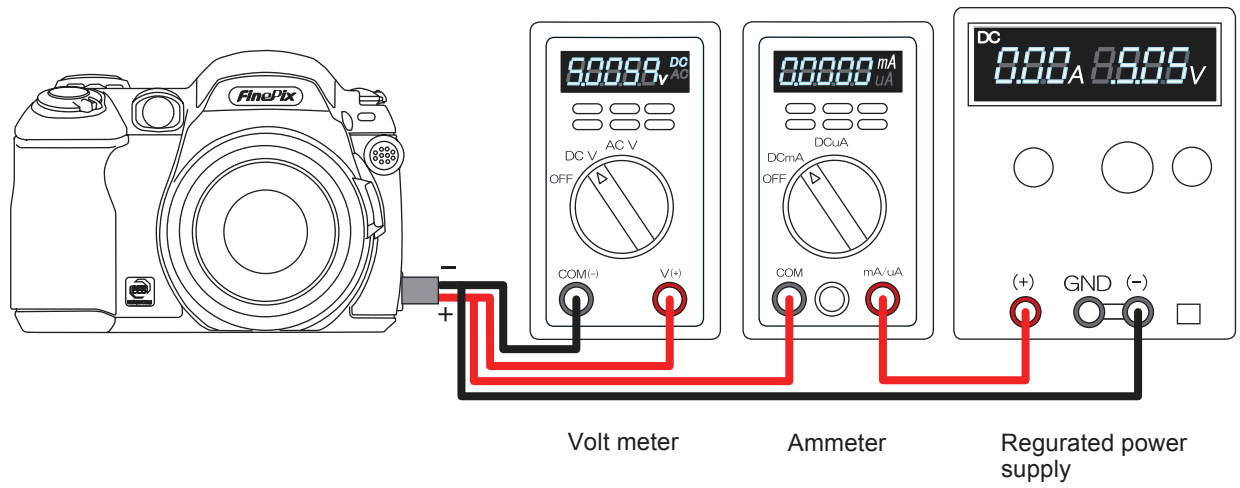
---> The display returns to the **[Inithal Screen (Fig.2)]** after pressing the [Enter] key.

5. Inspection

5-1. Required Measuring Equipment

Measuring equipment	Remarks
Power supply	AC adapter (AC-5V), Regurated power supply
Digital voltmeter	For general use
Ammeter	For general use (able to measure 1mA or less)
power cable jig	For general use
xD-Picture card	For general use

5-2. Connection of Measuring Equipment



Volt meter Ammeter Regurated power supply

5-3. Inspection and Factory Settings

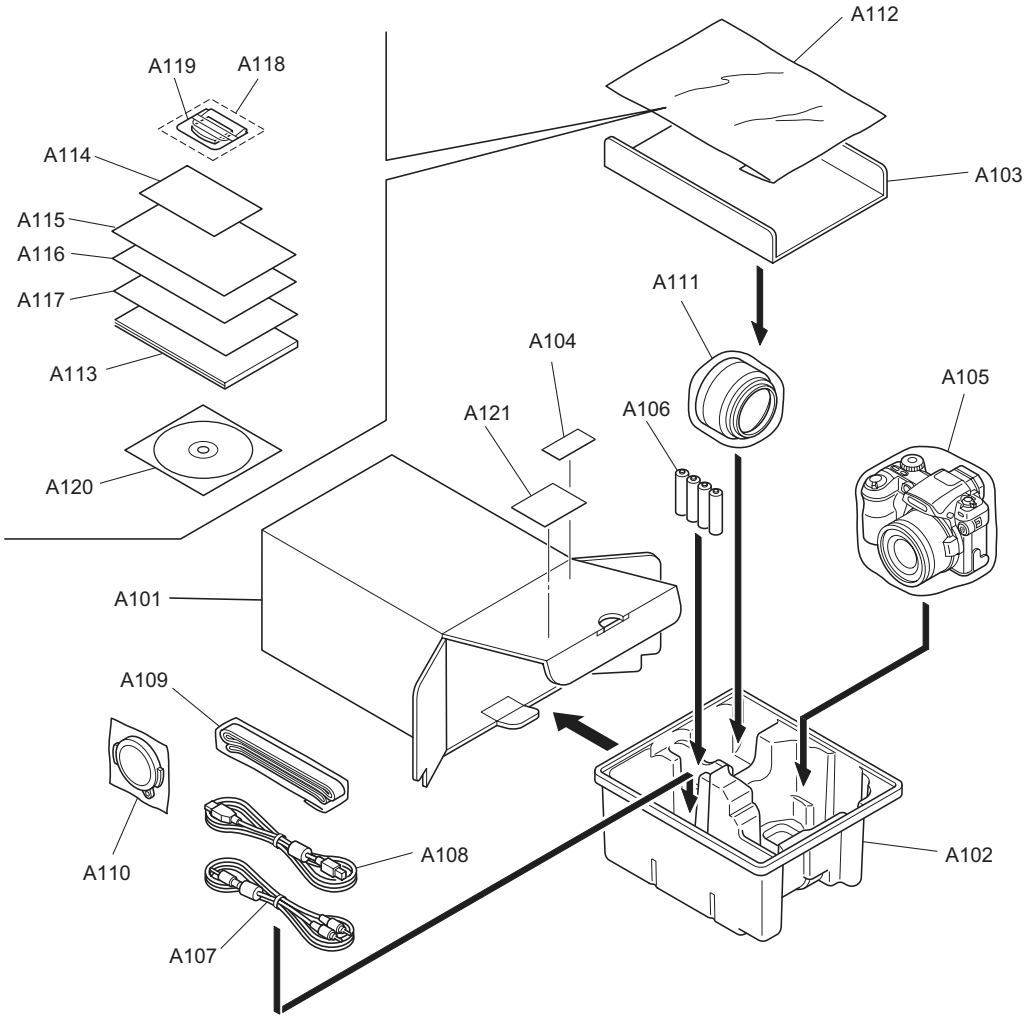
Sequemnce	Item	Mode	Preparations for adjustment (measurement points, subject, other)	Method of adjustment (VRs, waveforms, required values)	Measuring equipment and jigs	Measurement points (VRs, positions)
1	Check appear-ance		Visual check of camera	No problem with click action of switches. No dust or fogging of finder.		
2	Power supply switch	Auto photography LCD_ON	(1) Place battery in camera. (2) Insert card and close card cover. (3) Set mode dial to still photography mode. (4) Turn power ON. (5) If the date set message appears, press Cancel.	(1) Applied voltage:4 AA batteries or equivalent jig may be used. (2) Recording check card. (4) Power supply LED is green and beeps. (5) Live image screen and text display in LCD monitor.		
3	Check Movie mode shock noise	Auto photography LCD_ON	(1) Apply an appropriate shock to the camera. * Do not apply shock directly to the lens or card cover.	(1) No problem with display on LCD monitor. Restoration possible despite disruption of sync.		LCD monitor
4	Check macro photography Check focus	Auto photography LCD_ON	(1) Macro photography distance (approximately 10~80cm). (2) Press shutter button to take photographs.	(1) Macro icon appears in LCD monitor. (2) LED beside viewfinder changes from green to orange (recording) to green.		

Sequence	Item	Mode	Preparations for adjustment (measurement points, subject, other)	Method of adjustment (VRs, waveforms, required values)	Measuring equipment and jigs	Measurement points (VRs, positions)
5	Movie recording check	Movie photography LCD_ON	(1) Select Movie mode. (2) Half-press shutter button -> full-press release. (3) Five seconds later -> full-press release.	(1) Standby display on LCD. (2) Movie recording begins. Recording displayed on LCD. (3) Movie recording completed. Recording on card.		LCD monitor
6	Movie playback check	Playback	(1) Select Playback mode. (2) Press '+' key to playback movie.	(2) Movie played back on LCD monitor.		
7	Card cover detect check	M mode LCD_ON	(1) Open card cover to check recording. (2) Remove card.	(1) Switch power OFF.		
8	Delete mode check	Delete	(1) Select <Delete all frames> from the menu, and press the <OK> button. (2) Press the <OK> button again.	(1) [ERASE ALL OK? IT MAY TAKE A WHILL] displayed. (2) Movie/photography screen extinguished.		
10	Battery low check	Movie	(1) Connect power cable jig (2) Set voltage. (3) Set mode dial to Replay mode, and switch main power ON. (4) Set to pre-end voltage. (5) Set to end voltage.	Refer to Battery Adjustment for connection details. (2) Set voltage to 5.0±0.5V. (3) Starts normally. (4) Set voltage to 4.25±0.02V. Battery warning displayed. (5) Set voltage to 4.00±0.02V. Lens retracts and main power switched OFF.	Power supply cable jig Regurated power supply	
11	Current consumption check	Auto photography LCD_ON	(1) Connect power cable jig. (2) Set voltage. (3) Set mode dial to Camera mode, and switch main power ON. (4) Press the <DISP> button to switch the LCD monitor ON. (5) After the through screen is displayed, check current consumption.	(2) Set voltage to 5.00±0.05V. (5) Maximum current consumption 450mA.	Ammeter	
12	Factory setting	Playback	(1) Mode dial: Auto mode (2) Return all settings to initial values. Flash: Retracted Monitor brightness: Center Power lever: OFF USB setting: Card reader Beep: LOW Language: Engrish Pixels: 1M normal Photography mode: AUTO Date: Not set (3) Inspection battery/ inspection xD-Picture card not inserted in camera. (4) Battery cover closed. (5) LCD surface free of contamination. (6) Clean exterior of camera.	* Setting and clearing date (1) Connect the USB cable from the PC to the camera (ensure that the PC is switched ON). (2) Open the card cover and switch power ON (POWER_ON) while pressing the shutter button. (3) Switch power OFF (POWER_OFF). (4) Check that the date has been cleared.		

6. Parts List

6-1.Packing and Accessories

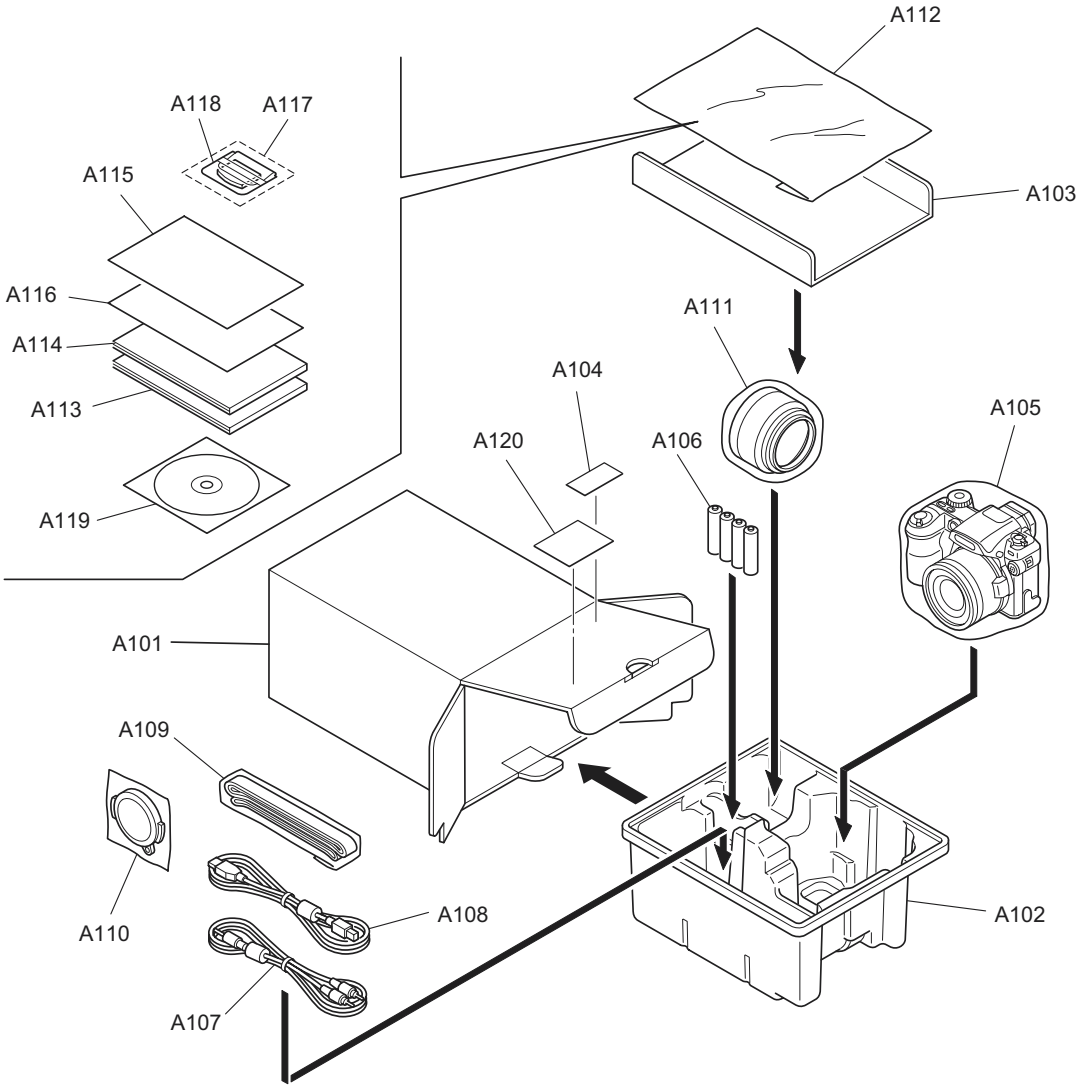
6-1-1.For US model



Ref No.	Parts No.	Description	Comment
A101	FZ05334-100	UNITARY U.BOX	
A102	FZ05328-100	SHEET MOLD	
A103	FZ05335-100	PARTITION PAD	
A104	BB12943-100	BAR CODE LABEL BLANK	
A105	AZF0000-311	HDPE BAG NO.11	
A106	FZ04793-100	ALKALINE BATTERY	
A107	FZ04741-100	WIRE HARNESS	
A108	FZ05241-100	WIRE HARNESS(USB)	
A109	BU02939-100	SHOULDER BELT ASSY	
A110	BU02876-100	LENS CAP ASSY	
A111	BU02875-100	LENS HOOD ASSY	
A112	AZF0000-101	LDPE BAG NO.10	
A113	BL00260-200	MANUAL S5000(ENG)	
A114	BB07792-101	WARRANTY US	
A115	BB03538-100	IMPORTANT SAFETY	

Ref No.	Parts No.	Description	Comment
A116	BL00261-100	QUICK MANUAL E	
A117	BL00261-400	QUICK MANUAL S	
A118	BF04146-100	XDCARD 16MB ASSY	
A119	BL00209-100	CASE	
A120	FZ05157-104	CD-ROM	
A121	BB16604-100	DEST.LBL. US J FG	

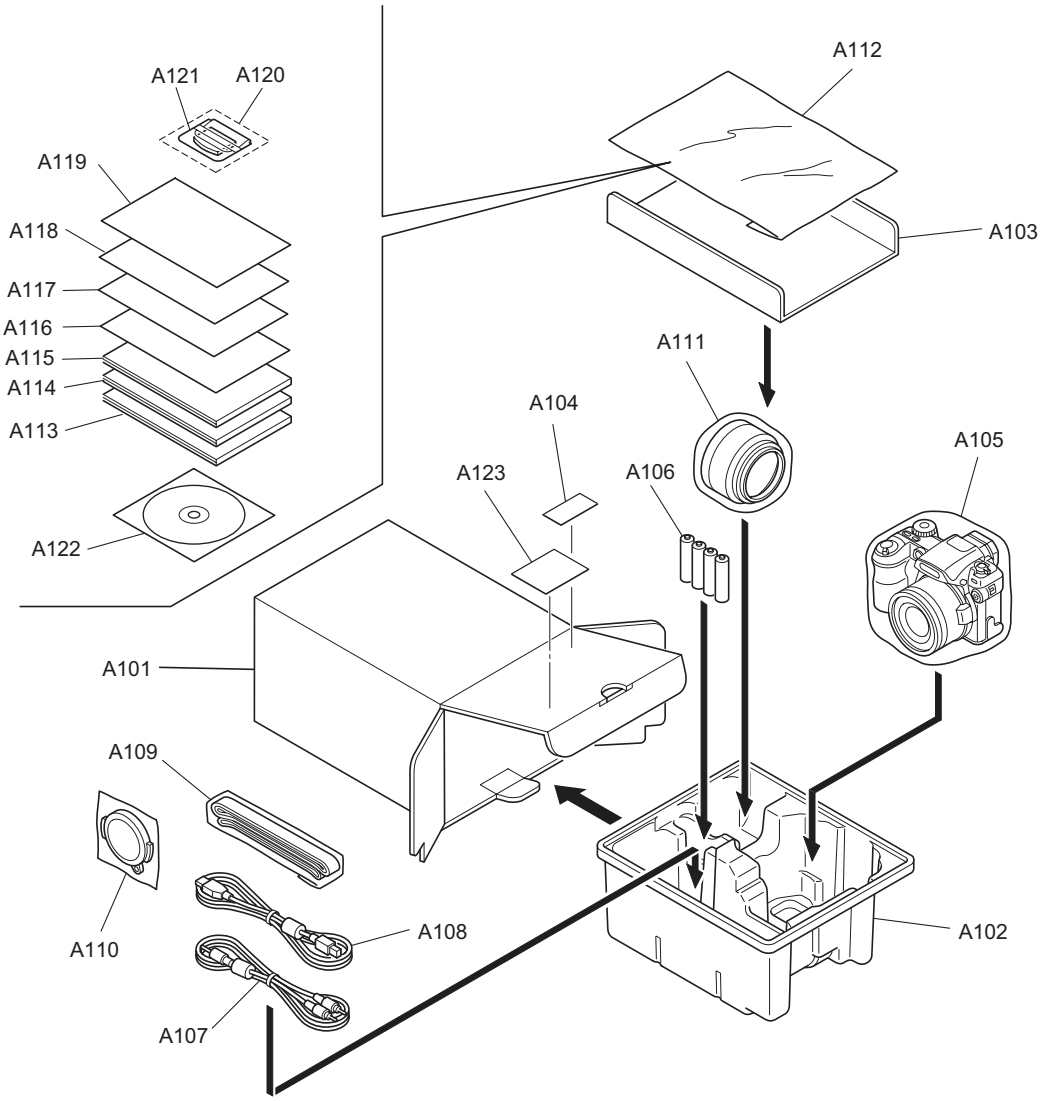
6-1-2.For CA model



Ref No.	Parts No.	Description	Comment
A101	FZ05334-100	UNITARY U.BOX	
A102	FZ05328-100	SHEET MOLD	
A103	FZ05335-100	PARTITION PAD	
A104	BB12943-100	BAR CODE LABEL BLANK	
A105	AZF0000-311	HDPE BAG NO.11	
A106	FZ04793-100	ALKALINE BATTERY	
A107	FZ04741-100	WIRE HARNESS	
A108	FZ05241-100	WIRE HARNESS(USB)	
A109	BU02939-100	SHOULDER BELT ASSY	
A110	BU02876-100	LENS CAP ASSY	
A111	BU02875-100	LENS HOOD ASSY	
A112	AZF0000-101	LDPE BAG NO.10	
A113	BL00260-200	MANUAL S5000(ENG)	
A114	BL00260-300	MANUAL S5000(FRE)	
A115	BL00261-100	QUICK MANUAL S5000E	

Ref No.	Parts No.	Description	Comment
A116	BL00261-200	QUICK MANUAL S5000F	
A117	BF04146-100	XDCARD 16MB ASSY	
A118	BL00209-100	CASE	
A119	FZ05157-104	CD-ROM	
A120	BB16604-400	DEST.LBL.4800CA J FG	

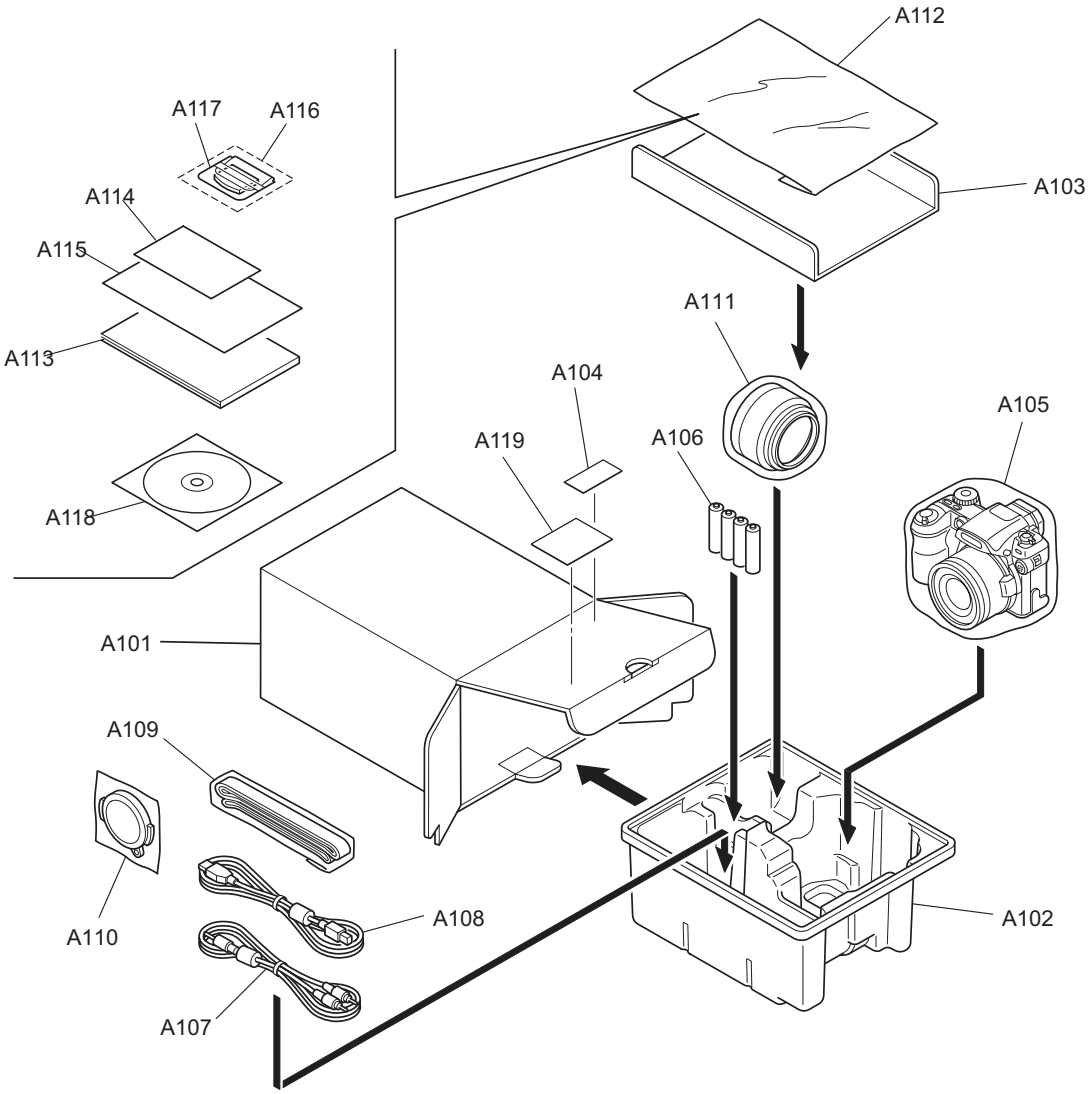
6-1-3.For EU model



Ref No.	Parts No.	Description	Comment
A101	FZ05334-100	UNITARY U.BOX	
A102	FZ05328-100	SHEET MOLD	
A103	FZ05335-100	PARTITION PAD	
A104	BB12943-100	BAR CODE LABEL BLANK	
A105	AZF0000-311	HDPE BAG NO.11	
A106	FZ04793-100	ALKALINE BATTERY	
A107	FZ04741-100	WIRE HARNESS	
A108	FZ05241-100	WIRE HARNESS(USB)	
A109	BU02939-100	SHOULDER BELT ASSY	
A110	BU02876-100	LENS CAP ASSY	
A111	BU02875-100	LENS HOOD ASSY	
A112	AZF0000-111	BAG PLASTIC NO.11	
A113	BL00260-200	MANUAL S5000(ENG)	
A114	BL00260-300	MANUAL S5000(FRE)	
A115	BL00260-400	MANUAL S5000(GER)	

Ref No.	Parts No.	Description	Comment
A116	BL00261-100	QUICK MANUAL S5000E	
A117	BL00261-200	QUICK MANUAL S5000F	
A118	BL00261-300	QUICK MANUAL S5000G	
A119	BL00261-400	QUICK MANUAL S5000S	
A120	BF04146-100	XDCARD 16MB ASSY	
A121	BL00209-100	CASE	
A122	FZ05157-104	CD-ROM	
A123	BB16604-200	DEST.LBL. EU J FG	

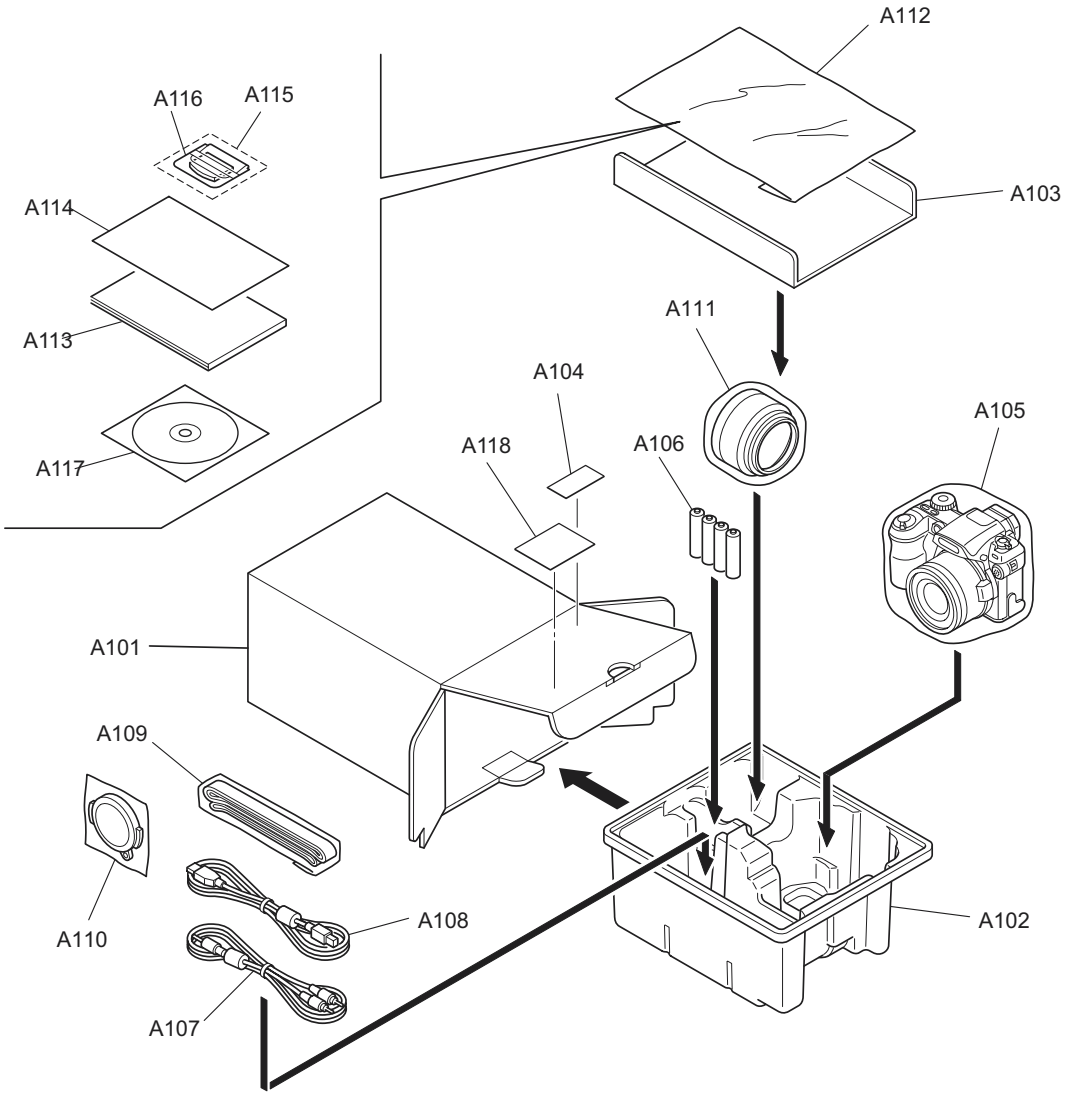
6-1-4.For EG model



Ref No.	Parts No.	Description	Comment
A101	FZ05334-100	UNITARY U.BOX	
A102	FZ05328-100	SHEET MOLD	
A103	FZ05335-100	PARTITION PAD	
A104	BB12943-100	BAR CODE LABEL BLANK	
A105	AZF0000-311	HDPE BAG NO.11	
A106	FZ04793-100	ALKALINE BATTERY	
A107	FZ04741-100	WIRE HARNESS	
A108	FZ05241-100	WIRE HARNESS(USB)	
A109	BU02939-100	SHOULDER BELT ASSY	
A110	BU02876-100	LENS CAP ASSY	
A111	BU02875-100	LENS HOOD ASSY	
A112	AZF0000-101	LDPE BAG NO.10	
A113	BL00260-200	MANUAL S5000(ENG)	
A114	BL00176-100	H14 WARRANTY CARD EG	
A115	BL00261-100	QUICK MANUAL S5000E	

Ref No.	Parts No.	Description	Comment
A116	BF04146-100	XDCARD 16MB ASSY	
A117	BL00209-100	CASE	
A118	FZ05157-104	CD-ROM	
A119	BB16604-300	DEST.LBL. EG J FG	

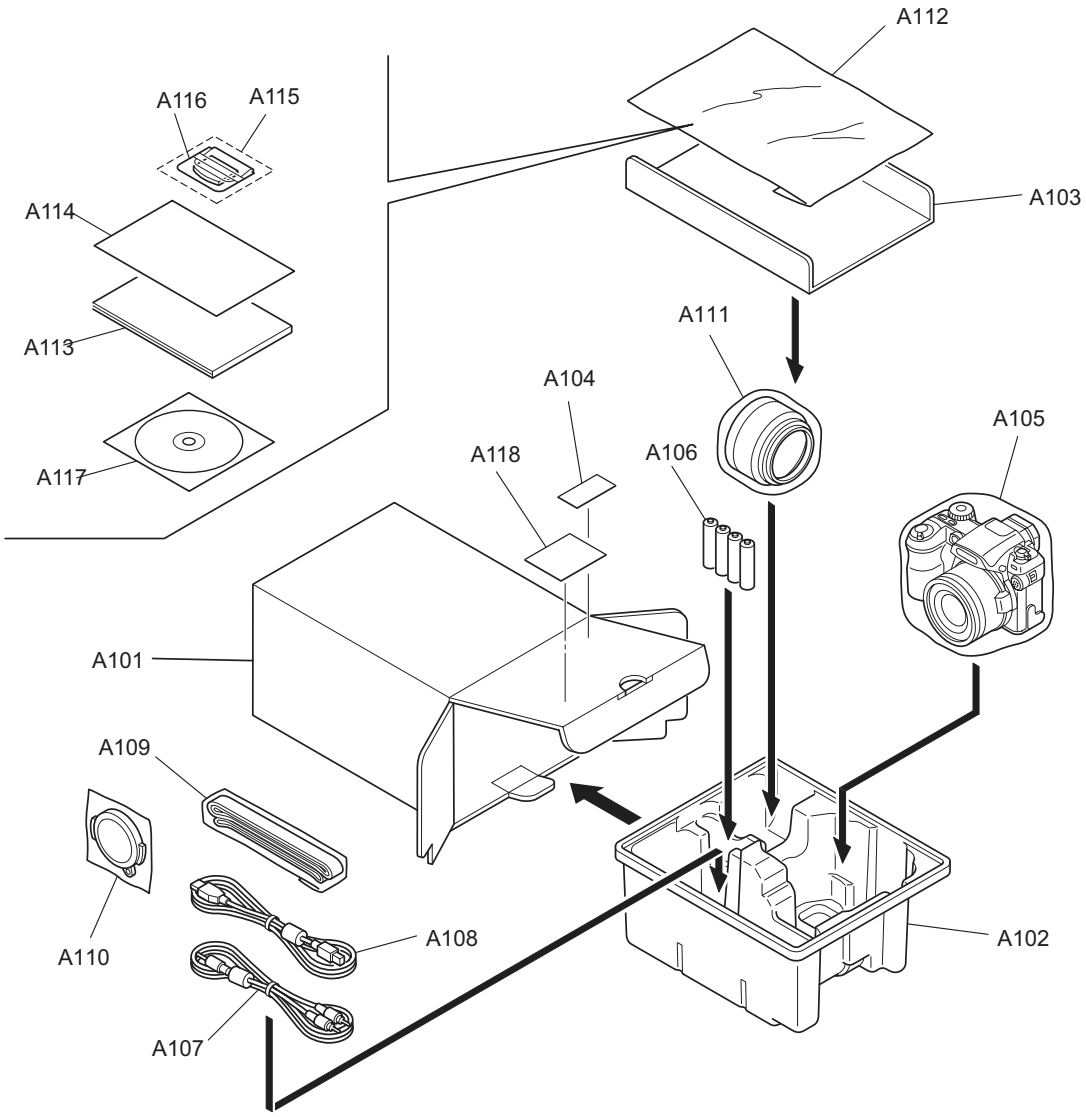
6-1-5.For GE model



Ref No.	Parts No.	Description	Comment
A101	FZ05334-100	UNITARY U.BOX	
A102	FZ05328-100	SHEET MOLD	
A103	FZ05335-100	PARTITION PAD	
A104	BB12943-100	BAR CODE LABEL BLANK	
A105	AZF0000-311	HDPE BAG NO.11	
A106	FZ04793-100	ALKALINE BATTERY	
A107	FZ04741-100	WIRE HARNESS	
A108	FZ05241-100	WIRE HARNESS(USB)	
A109	BU02939-100	SHOULDER BELT ASSY	
A110	BU02876-100	LENS CAP ASSY	
A111	BU02875-100	LENS HOOD ASSY	
A112	AZF0000-101	LDPE BAG NO.10	
A113	BL00260-400	MANUAL S5000(GER)	
A114	BL00261-300	QUICK MANUAL S5000G	
A115	BF04146-100	XDCARD 16MB ASSY	

Ref No.	Parts No.	Description	Comment
A116	BL00209-100	CASE	
A117	FZ05157-104	CD-ROM	
A118	BB16604-500	DEST.LBL. GE J FG	

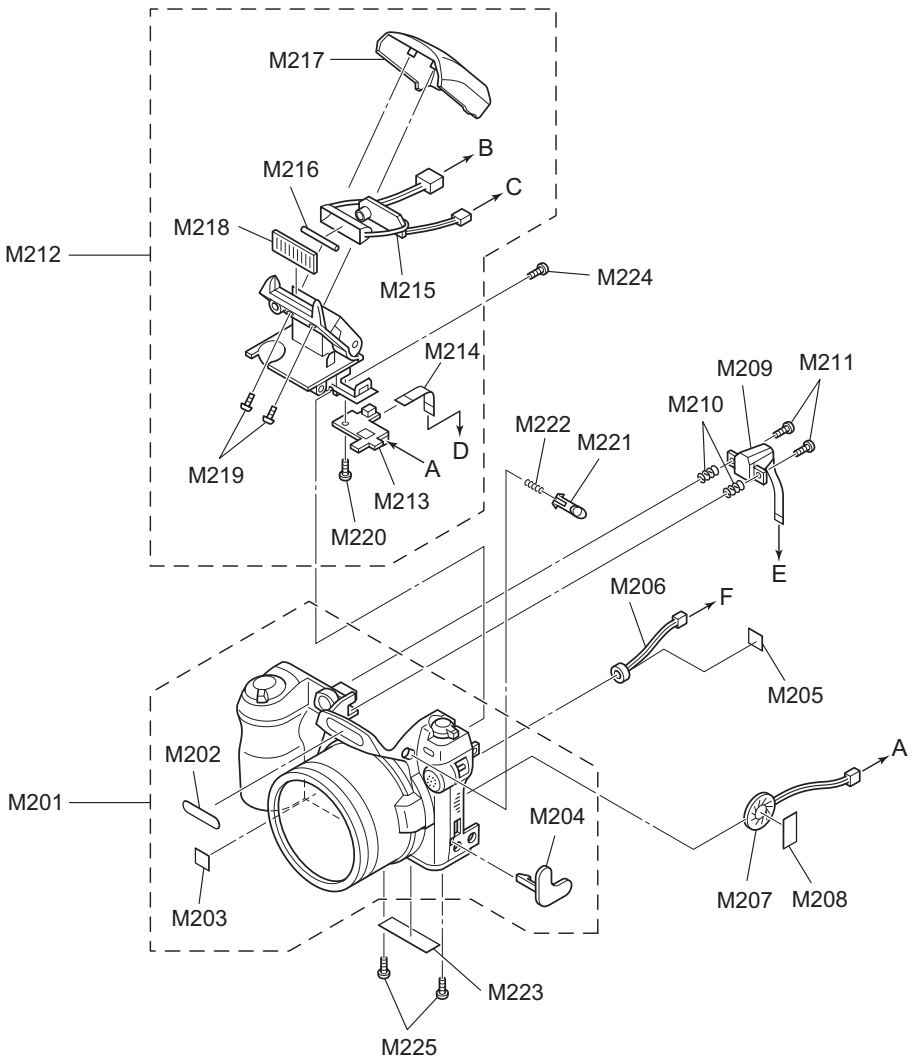
6-1-6.For AS model



Ref No.	Parts No.	Description	Comment
A101	FZ05334-100	UNITARY U.BOX	
A102	FZ05328-100	SHEET MOLD	
A103	FZ05335-100	PARTITION PAD	
A104	BB12943-100	BAR CODE LABEL BLANK	
A105	AZF0000-311	HDPE BAG NO.11	
A106	FZ04793-100	ALKALINE BATTERY	
A107	FZ04741-100	WIRE HARNESS	
A108	FZ05241-100	WIRE HARNESS(USB)	
A109	BU02939-100	SHOULDER BELT ASSY	
A110	BU02876-100	LENS CAP ASSY	
A111	BU02875-100	LENS HOOD ASSY	
A112	AZF0000-101	LDPE BAG NO.10	
A113	BL00260-200	MANUAL S5000(ENG)	
A114	BL00261-100	QUICK MANUAL S5000E	
A115	BF04146-100	XDCARD 16MB ASSY	

Ref No.	Parts No.	Description	Comment
A116	BL00209-100	CASE	
A117	FZ05157-104	CD-ROM	
A118	BB16604-600	DEST.LBL. AS J FG	

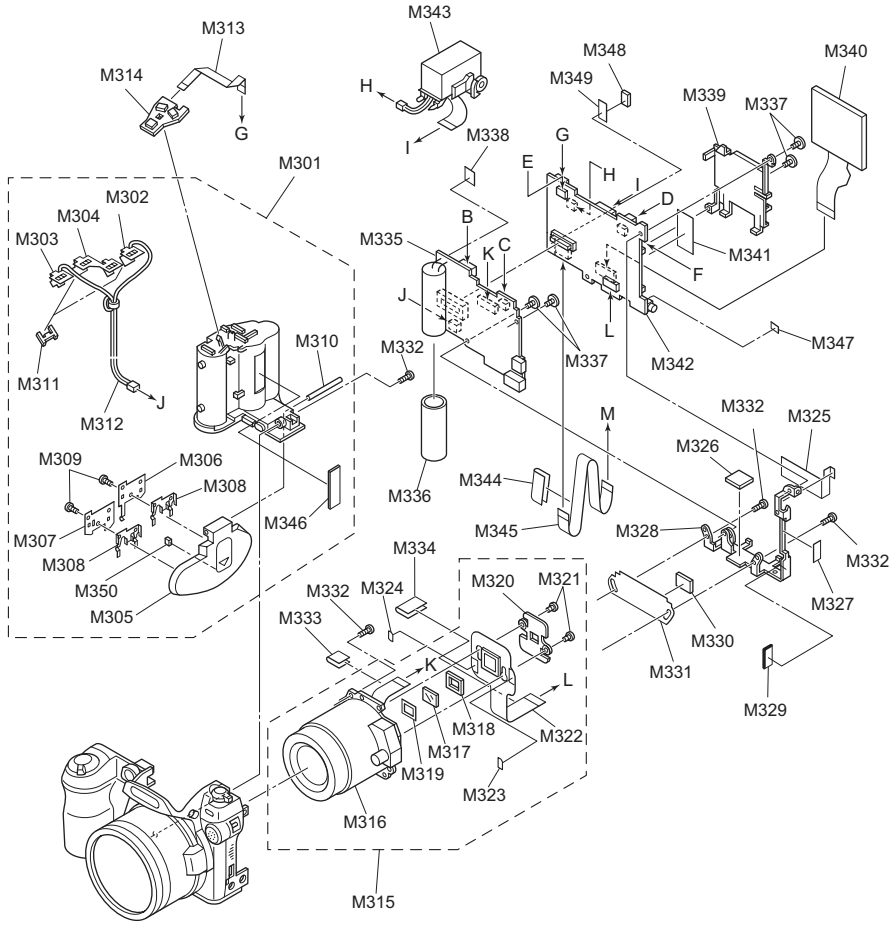
6-2.Cabinet F block



Ref No.	Parts No.	Description	Comment
M201	BU02869-100	CABINET FRONT ASSY	
M202	BB16384-100	CI BADGE	
M203	BB15895-100	CCD BADGE	
M204	BB16809-100	JACK COVER	
M205	BB16942-100	MIC SHEET	
M206	FZ04998-100	MIC ASSY	
M207	FZ04224-100	SPEAKER ASSY	
M208	BB16856-100	SP SHEET	
M209	FZ05547-100	AF FRAME ASSY	
M210	BB16693-100	ADJUSTMENT SPRING	
M211	BB16695-100	ADJUSTMENT SCREW	
M212	BU02940-100	STROBE CONST	
M213	FZ05545-100	FSW PWB ASSY	
M214	FZ05436-100	FFC	
M215	FZ05542-100	ST PWB ASSY	
M216	FZ05413-100	LIGHT	
M217	BB16362-100	ST TOP	
M218	BB16365-100	FLASH COVER	

Ref No.	Parts No.	Description	Comment
M219	ATG1723-5ND	SCREW	
M220	ATG1423-0ND	SCREW	
M221	BB16367-100	ST-BUTTON	
M222	BB16398-100	ST-BUTTON CSP	
M223	BB16744-100	PRODUCT LABEL	
M224	BB16931-100	SCREW M1.75.5	
M225	BB13148-100	BL SCREW M1.7X3.5BC	

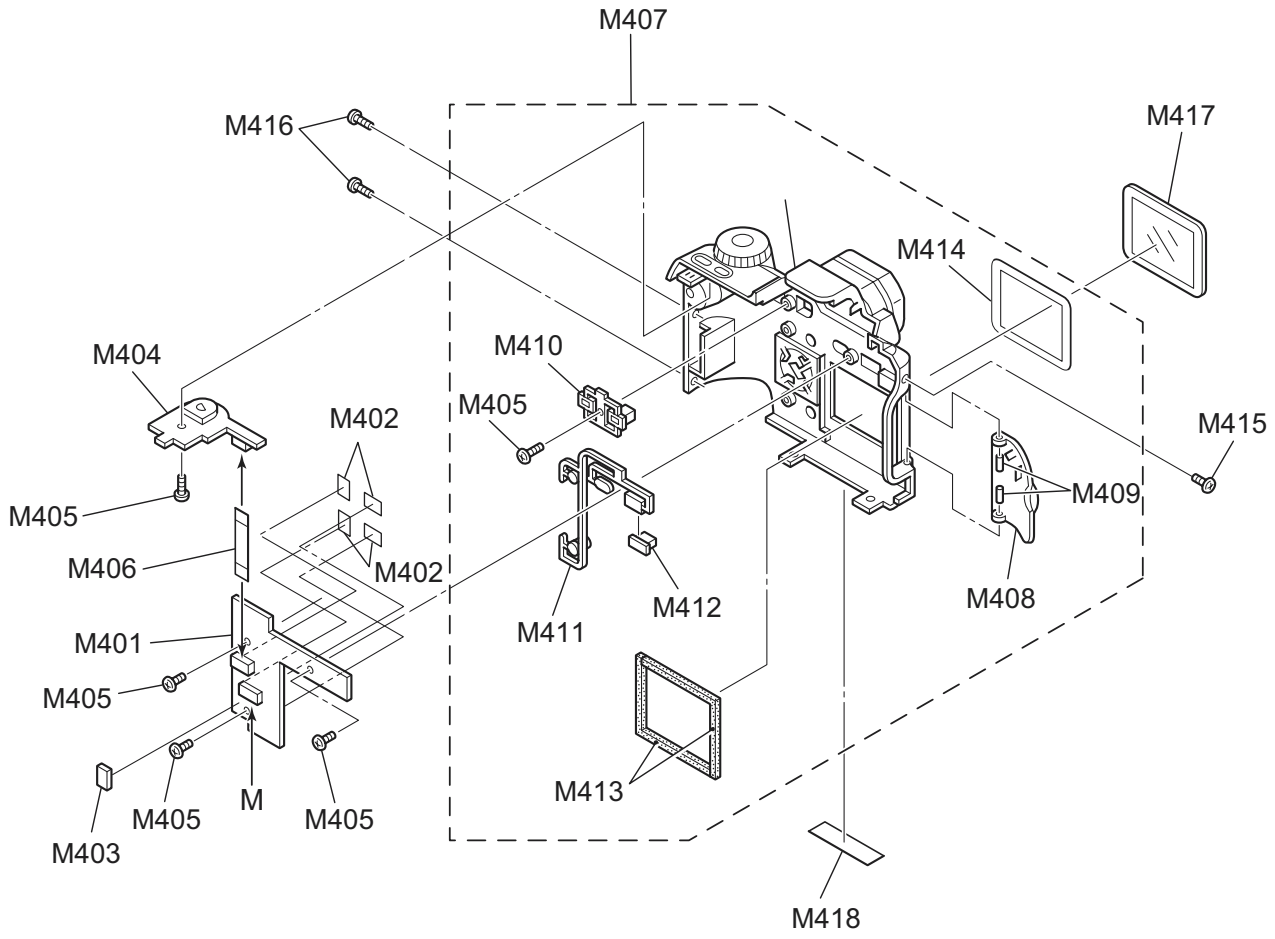
6-3.Inner parts



Ref No.	Parts No.	Description	Comment
M301	BU02870-100	BATTERY HOLDER ASSY	
M302	BB16403-100	CONTACT PSP A	
M303	BB16404-100	CONTACT PSP B	
M304	BB16405-100	CONTACT PSP C	
M305	BB16369-100	BATTERY LID	
M306	BB16385-100	TERMINAL PLATE A	
M307	BB16386-100	TERMINAL PLATE B	
M308	BB16406-100	TERMINAL PSP	
M309	BB16933-100	SCREW BT2P1.4X2.5N	
M310	BB16412-100	BATTERY SHAFT	
M311	BB16934-100	ISORATION PIECE	
M312	BU02946-100	BATTERY HARNESS ASSY	
M313	FZ05433-100	FFC	
M314	CB1118-A300	RSW PWB ASSY	
M315	BF04549-100	LENS CONST WITH DATA	
M316	FZ05317-100	LENS UNIT	
M317	FZ05214-100	OPTICAL LPF	
M318	BB14921-100	LPF RUBBER	
M319	BB16353-100	LPF MASK	
M320	BB16332-100	CCD PLATE	
M321	ATG1713-0NN	BT1P17*30N	
M322	CB1119-A101	CCD PWB ASSY	
M323	BB16939-100	CCD EMI SHEET L	
M324	BB16940-100	CCD EMI SHEET R	
M325	BB16963-100	EMI CCD-F SHEET	

Ref No.	Parts No.	Description	Comment
M326	BB16951-100	MF SHEET2	
M327	BB16941-100	MF SHEET	
M328	BB16387-100	MAIN FRAME	
M329	BB17078-100	CONTACT SHEET C	
M330	BB16964-100	CONTACT SHEET A	
M331	BB16938-100	CCD EMI SHEET	
M332	ATG1728-0ND	SCREW	
M333	FZ05550-100	BUSTERAID	
M334	FZ05551-100	BUSTERAID	
M335	CB1117-A101	DCST PWB ASSY	
M336	BB16743-100	INSURATION TUBE	
M337	BB12548-200	SP SCREW M1.7X2.5	
M338	BB15553-100	CONDENSER SHEET	
M339	BB16388-100	LCD FRAME	
M340	BF04645-100	LCD ASSY	
M341	FZ05311-100	SHIELD SHEET	
M342	CB1116-A100	MAIN PWB ASSY	
M343	BU02929-100	EVF UNIT CONST	
M344	FZ05552-100	BUSTERAID	
M345	FZ05435-100	FFC	
M346	BB17075-100	BM SHEET	
M347	BB17079-100	JC SHEET	
M348	BB17025-100	CONTACT SHEET B	
M349	BB17029-100	K SHEET 2	
M350	BB16966-100	B SHEET	

6-4.Cabinet R block



Ref No.	Parts No.	Description	Comment
M401	CB1118-A100	KSW PWB ASSY	
M402	BB16943-100	K SHEET	
M403	BB17025-100	CONTACT SHEET B	
M404	CB1118-A200	MSW PWB ASSY	
M405	ATG1724-0ND	SCREW	
M406	FZ05434-100	FFC	
M407	BU02871-100	CABI REAR ASSY	
M408	BB16374-100	CARD COVER	
M409	BB16413-100	CARD COVER SHAFT	
M410	BB16823-100	ZOOM KEY	
M411	BB16375-100	OPERATION BUTTON	
M412	BB16378-100	F BUTTON	
M413	BB16740-100	LCD CUSHION	

Ref No.	Parts No.	Description	Comment
M414	BB16832-100	W FACE(LCD COVER)	
M415	BB13148-100	BL SCREW M1.7X3.5BC	
M416	BB13149-200	BT2P1.7X5.0BC GN	
M417	BB16745-100	LCD COVER	
M418	BB09250-200	PL SEAL (U)	

6-5.Electrical parts

[NOTE]

The components indicated by mark ⚠ are critical for safety. When indicated parts by reference number,please include the board name.

* Due to standardization,replacement in the parts list may be different form the parts list specified in the circuit or the components used on the set.

Ref.No.	Part No.	Description	
		**********	
		CB1116-A100 MAIN PWB ASSY	
		**********	
		[SWITCH]	
SW201	FZ01045-100	DETECTOR SWITCH	1C
		[CONNECTOR]	
CN11	FGA129-0021	CONNECTOR	CJ 2PSN1MM RH
CN101	FGB089-0291	CONNECTOR	CJ29PFN0.3MMNH
CN201	FGC125-0601	CONNECTOR	CJ60PBN0.5MMPV
CN202	FGY067-0201	CONNECTOR	CJ20PB 1MM NN
CN203	FGB061-0081	CONNECTOR	CJ 8PN0.5MM V
CN204	FGB139-0081	CONNECTOR	CJ 8PFN0.5MM NH
CN205	FGB046-0141	CONNECTOR	CJ14PFN0.5M MN
CN206	FGB139-0061	CONNECTOR	CJ 6P FN0.5MMNH
CN401	FGA096-0021	CONNECTOR	CJ 2PRN1.0MM PH
CN402	FGB061-0221	CONNECTOR	CJ22PFN0.5MMNV
CN403	FGB046-0261	CONNECTOR	CJ26PFN0.5MMNH
J51	FZ04722-100	JACKAV JACK	
		[FUSE]	
⚠ F401	FP00039-502	FUSE500MA 32V UL	
		**********	
		CB1117-A101 DCST PWB ASSY	
		**********	
		[CAPACITOR]	
C611	FAA53-197KN	LEAD E.CAP	LA 190MF 350V K 13.2
		[FUSE]	
⚠ F501	FP00039-253	FUSE 2.5A 32V UL	
⚠ F502	FP00018-253	FUSE2.5A 125V JIS	
⚠ F503	FP00039-253	FUSE 2.5A 32V UL	
⚠ F504	FP00039-253	FUSE 2.5A 32V UL	
⚠ F505	FP00039-153	FUSE 1.5A 32V UL	
⚠ F506	FP00039-502	FUSE500MA 32V UL	
		[CONNECTOR]	
CN501	FGA113-0021	CONNECTOR	CJ 2PRN1.5MM PH
CN502	FZ05344-100	JACKUSB	MINI-B
CN503	FGC143-0601	CONNECTOR	CJ60PBN0.5MMRV
CN601	FGA058-0021	CONNECTOR	CJ2PRN1.25MMPN
CN602	FGA137-0042	CONNECTOR	LJ 4P RB2.0MMPH
CN651	FGB046-0201	CONNECTOR	CJ20PFN0.5MMNH
J501	FZ04171-100	JACK	
		[BATTERY]	
BT501	FZ04704-100	BATTERY	BACK-UP

Ref.No.	Part No.	Description	
		**********	
		CB1118-A100 KSW PWB ASSY	
		**********	
		[SWITCH]	
SW801	FZ02630-100	TACT SWITCH	1C-1P
SW802	FZ02630-100	TACT SWITCH	1C-1P
SW803	FZ02084-100	TACT SWITCH	1C-1P
SW804	FZ02630-100	TACT SWITCH	1C-1P
SW805	FZ02084-100	TACT SWITCH	1C-1P
SW806	FZ02084-100	TACT SWITCH	1C-1P
SW807	FZ02084-100	TACT SWITCH	1C-1P
SW808	FZ02084-100	TACT SWITCH	1C-1P
SW809	FZ02084-100	TACT SWITCH	1C-1P
SW810	FZ02084-100	TACT SWITCH	1C-1P
SW811	FZ02084-100	TACT SWITCH	1C-1P
		[CONNECTOR]	
CN801	FGB046-0141	CONNECTOR	CJ14P FN 0.5MM NH
CN802	FGB060-0081	CONNECTOR	CJ 8P FN 0.5MM NH
		**********	
		CB1118-A200 MSW PWB ASSY	
		**********	
		[SWITCH]	
SW851	FZ02084-100	TACT SWITCH	1C-1P
SW852	FZ02084-100	TACT SWITCH	1C-1P
		[CONNECTOR]	
CN851	FGB061-0081	CONNECTOR	CJ 8P N 0.5MM V
		**********	
		CB1118-A300 RSW PWB ASSY	
		**********	
		[SWITCH]	
SW951	FZ04993-100	TACT SWITCH	2P
SW952	FZ04725-100	DETECTOR SWITCH	2P
SW953	FZ04725-100	DETECTOR SWITCH	2P
		[CONNECTOR]	
CN951	FGB139-0081	CONNECTOR	CJ 8P FN 0.5MM NH

7. Appendix

7-1.List of Related Technical Updates Issued

To ensure that after-sales srevice is performed accuratety, keep a record here of the technical updates issued that cover this device.

Technical Update No.	Date	Title	Details/Other

FUJI PHOTO FILM CO., LTD.
26-30, Nishiazabu 2-chome, Minato-ku, Tokyo 106-8620, Japan.