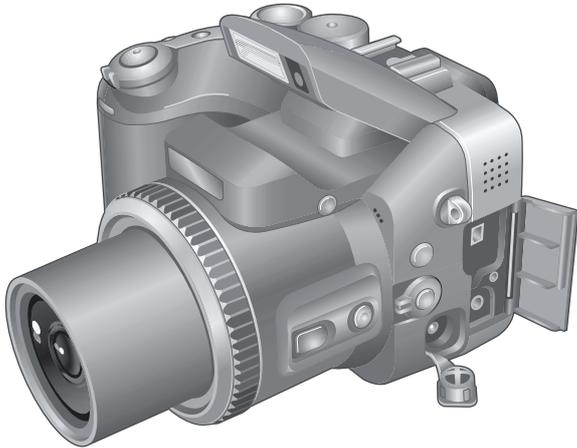




# FUJIFILM

DIGITAL CAMERA



***FinePix S7000***

**SERVICE MANUAL**

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



## WARNING

- THE COMPONENTS IDENTIFIED BY THE MARK “” ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR SAFETY. PLEASE REPLACE ONLY BY THE COMPONENTS SPECIFIED ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST.
- IF YOU USE PARTS NOT SPECIFIED, IT MAY RESULT IN A FIRE AND AN ELECTRICAL SHOCK.

## SAFETY CHECK-OUT

After correcting the original problem, perform the following safety check before returning the product to the customer.

1. Check the area of your repair for unsoldered or poorly soldered 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 transistors, 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.



RISK OF FIRE-  
REPLACE FUSE  
AS MARKED

**Caution:**

For continued protection against fire hazard, replace only with same type 2.5 amperes 125/250 volts fuse.

**Attention:**

Afin d'assurer une protection permanente contre les risques d'incendie, remplacer uniquement par un fusible de meme, type 2.5 amperes, 125/250 volts.

6.



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 S7000
Effective pixels	6.3 million pixels
CCD	1/1.7-inch Super CCD HR
Storage media	Number of total pixels 6.63 million pixels
	xD-Picture Card (16/32/64/128/256/512 MB) Microdrive (340 MB/1 GB)
File format	Still image: DCF-compliant
	Compressed: Exif Ver.2.2 JPEG, DPOF-compatible * Design rule for Camera File System compliant DPOF compatible
	Uncompressed: CCD-RAW (RAF)
Number of recorded pixels	Movie: AVI format, Motion JPEG
	Audio: WAVE format, Monaural sound
	Still image: 4048 × 3040 (12.3 million) pixels/2848 × 2136 pixels/ 2016 × 1512 pixels/1600 × 1200 pixels/1280 × 960 pixels ( <b>12M/6M/3M/2M/1M</b> ) Movie: 640 × 480 pixels (30 frames per second with monaural sound) 320 × 240 pixels (30 frames per second with monaural sound)
Lens	Super EBC Fujinon 6× zoom lens, F2.8-F3.1
Focal length	7.8 mm-46.8 mm (Equivalent to 35 mm-210 mm on a 35 mm camera)
Focus	TTL contrast-type, Auto focus, Manual focus
Focal range	Normal: Wide-angle: Approx. 50 cm (1.6 ft.) to infinity Telephoto: Approx. 90 cm (3.0 ft.) to infinity
	Macro: Approx. 10 cm (3.9 in.) to 80 cm (2.6 ft.)
	Super Macro: Approx. 1 cm (0.4 in.) to 20 cm (7.9 in.)
Shutter speed	<b>AUTO</b> /SP: 1/4 sec. to 1/2000 sec.
	SP (Night scene mode only): 3 sec. to 1/250 sec.
	P/S/A: 3 sec. to 1/1000 sec. M: 15 sec. to 1/10000 sec. Bulb (Up to 15 sec.)
Aperture	F2.8 to F8 10 steps in 1/3 EV increments Manual/Auto selectable
Sensitivity	<b>AUTO</b> : Equivalent to ISO160-800
	Manual: Equivalent to ISO200/400/800 (resolution is set at <b>1M/2M/3M</b> for shots taken at ISO 800.)
	During setting CCD-RAW 200/400
Photometry	TTL 64-zones metering Multi, Spot, Average
Exposure control	Program AE ( <b>AUTO</b> , P, SP), Shutter-priority AE, Aperture-priority AE, Manual exposure
Exposure compensation	-2 EV to +2 EV (13 steps in 1/3 EV increments)
White balance	Auto ( <b>AUTO</b> , SP)
	Manual modes, 9 positions can be selected (P, S, A, M)
Viewfinder	0.44-inch 235,000 pixels electronic viewfinder Approx. 100% coverage
LCD monitor	1.8-inches, 118,000-pixel low temperature polysilicon TFT, Approx. 100% coverage
Flash Type	Auto flash using flash control sensor
	Effective range: Wide-angle: Approx. 0.3 m-8.5 m (1.0 ft.-27.9 ft.) (Approx. 0.3 m-0.8 m (1.0 ft.-2.6 ft.): Macro)
	Telephoto: Approx. 0.9 m-7.9 m (3.0 ft.-25.9 ft.)
	Flash modes: Auto, Red-Eye Reduction, Forced Flash, Suppressed Flash, Slow Synchro, Red-Eye Reduction + Slow Synchro
Self-Timer	2 sec./10 sec.
Video output	NTSC/PAL selectable

### Input/OutputTerminals

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

## 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)

Conditions for use

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

Guide to the number of available frames for battery operation

Media type		Battery Type	
		Alkaline batteries	Ni-MH batteries HR-3UF (2100)
xD-Picture Card	Using LCD monitor	Approx. 210 frames	Approx. 340 frames
	Using EVF	Approx. 220 frames	Approx. 350 frames
Microdrive	Using LCD monitor	Approx. 200 frames	Approx. 310 frames
	Using EVF	Approx. 210 frames	Approx. 320 frames

The number of available frames for battery operation given here is a guide to the number of consecutive shots that can be taken under FUJIFILM test conditions.

- Batteries used: alkaline batteries bundled with the camera fully charged Ni-MH batteries
- Shooting conditions: Measured at normal temperature with 50% flash use
- Note: Because the number of available frames that can be taken varies depending on the capacities of alkaline batteries and the amount of charge in Ni-MH batteries, the figures given here for the number of frames that can be taken using batteries are not guaranteed. At low temperatures, fewer pictures can be taken when the camera is running on batteries.

Camera dimensions (W × H × D)

121.0 mm × 81.5 mm × 97.0 mm/4.8 in. × 3.2 in. × 3.8 in. (not including accessories and attachments)

Camera mass (weight)

500 g/17.6 oz. (not including accessories, batteries, xD-Picture Card and Microdrive)

Weight for photography Accessories

Approx. 600 g/21.2 oz. (including batteries and xD-Picture Card)

- 16 MB, xD-Picture Card (1) Included with: Anti-static case (1)
- AA-size alkaline batteries (4)
- Protective cover (2)
- Lens cap (1)
- A/V (audio-visual) cable (included) (1) (plug (2.5 mm dia.) to pin-plug cable × 2)
- USB cable (mini-B) (1)
- Owner's Manual (1)
- 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)
- AC Power Adapter AC-5VH/AC-5VHS
- Fujifilm Rechargeable Battery 2HR-3UF
- Fujifilm Battery charger with Battery BK-NH/BK-NH2 (With Euro type or UK type plug)
- SC-FX602
- Wide conversion lens WL-FX9/WL-FX9B
- Teleconversion lens TL-FX9/TL-FX9B
- 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 10.2.2) 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/X (10.1.2 to 10.1.5)

Optional Accessories

### Standard number of frames per Media

Quality	12M F	12M N	6M	3M	2M	1M	RAW
Number of recorded pixels	4048 × 3040		2848 × 2136	2016 × 1512	1600 × 1200	1280 × 960	4048 × 3040
Image Data Size	4.9 MB	2.5 MB	1.5 MB	760 KB	630 KB	470 KB	13 MB
DPC-16 (16 MB)	3	6	10	20	25	33	1
DPC-32 (32 MB)	6	12	20	41	50	68	2
DPC-64 (64 MB)	12	26	42	82	101	137	4
DPC-128 (128 MB)	26	52	84	166	204	275	9
DPC-256 (256 MB)	52	105	169	332	409	550	19
DPC-512 (512 MB)	105	211	339	665	818	1101	39
Microdrive 340 MB	72	144	232	459	559	752	27
Microdrive 1 GB	217	432	698	1368	1642	2190	81

## ■ Standard recording Times for Media

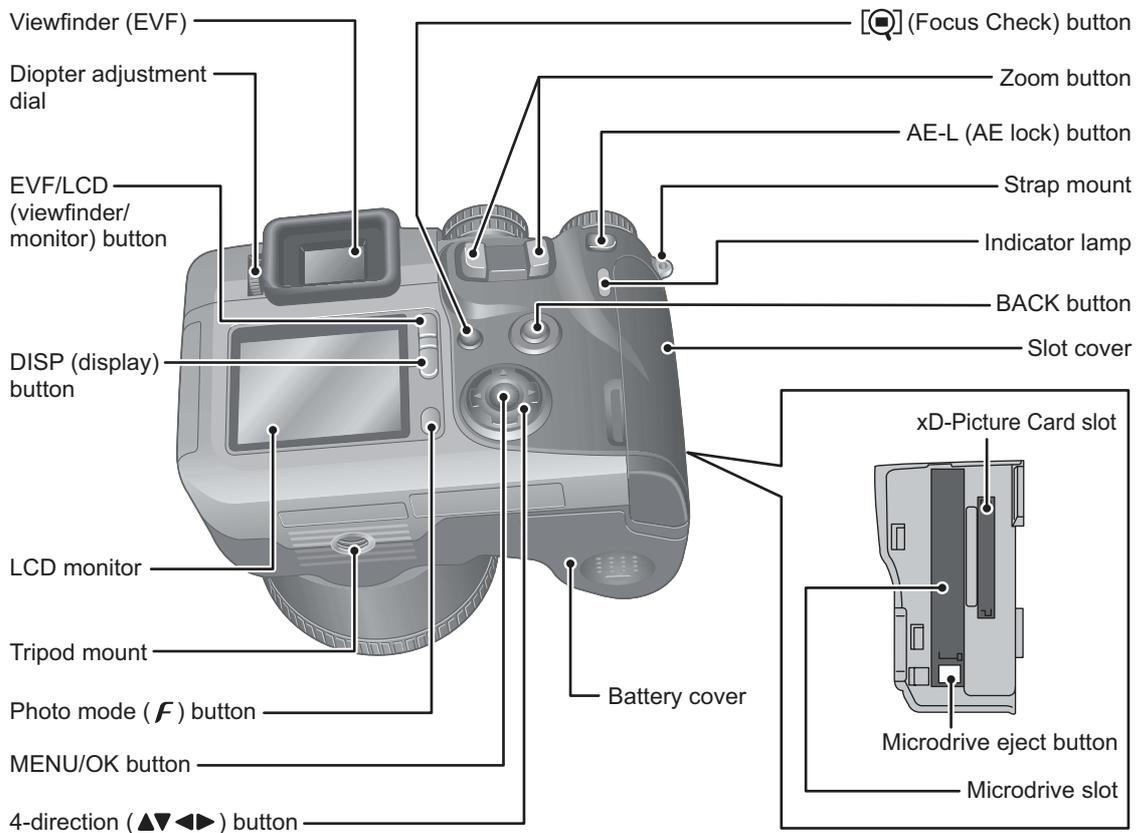
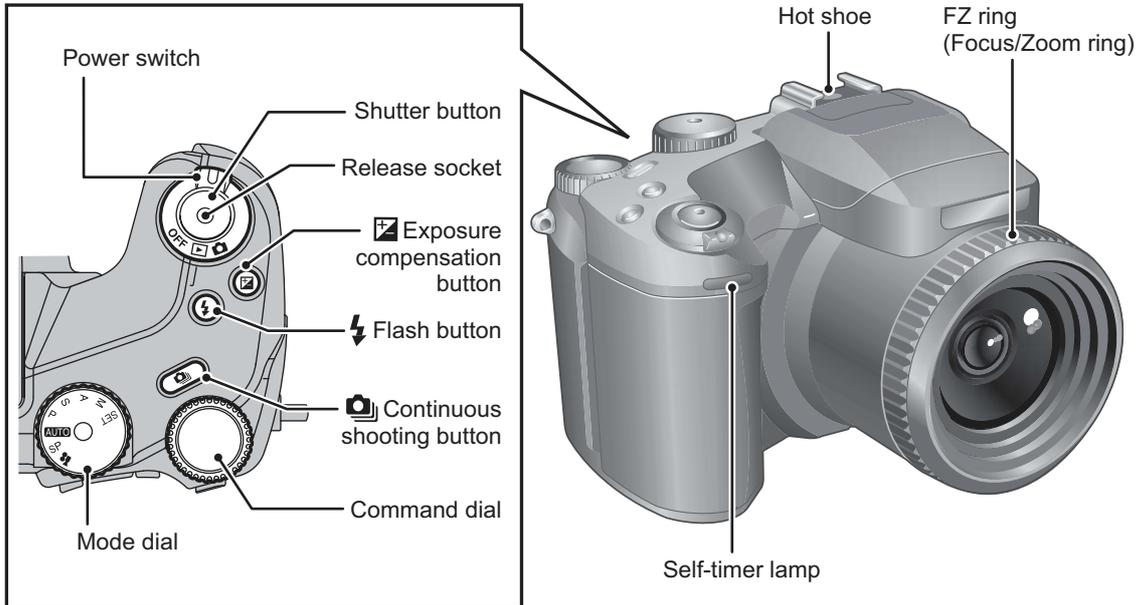
Quality mode	640 (30 fps)	320 (30 fps)
Number of recorded pixels	640 × 480	320 × 240
DPC-16 (16 MB)	13 sec.	26 sec.
DPC-32 (32 MB)	27 sec.	54 sec.
DPC-64 (64 MB)	55 sec.	109 sec.
DPC-128 (128 MB)	111 sec.	219 sec.
DPC-256 (256 MB)	223 sec.	7.3 min.
DPC-512 (512 MB)	7.4 min.	14.6 min.
Microdrive 340 MB	5.0 min.	10.0 min.
Microdrive 1 GB	15.3 min.	30.1 min.

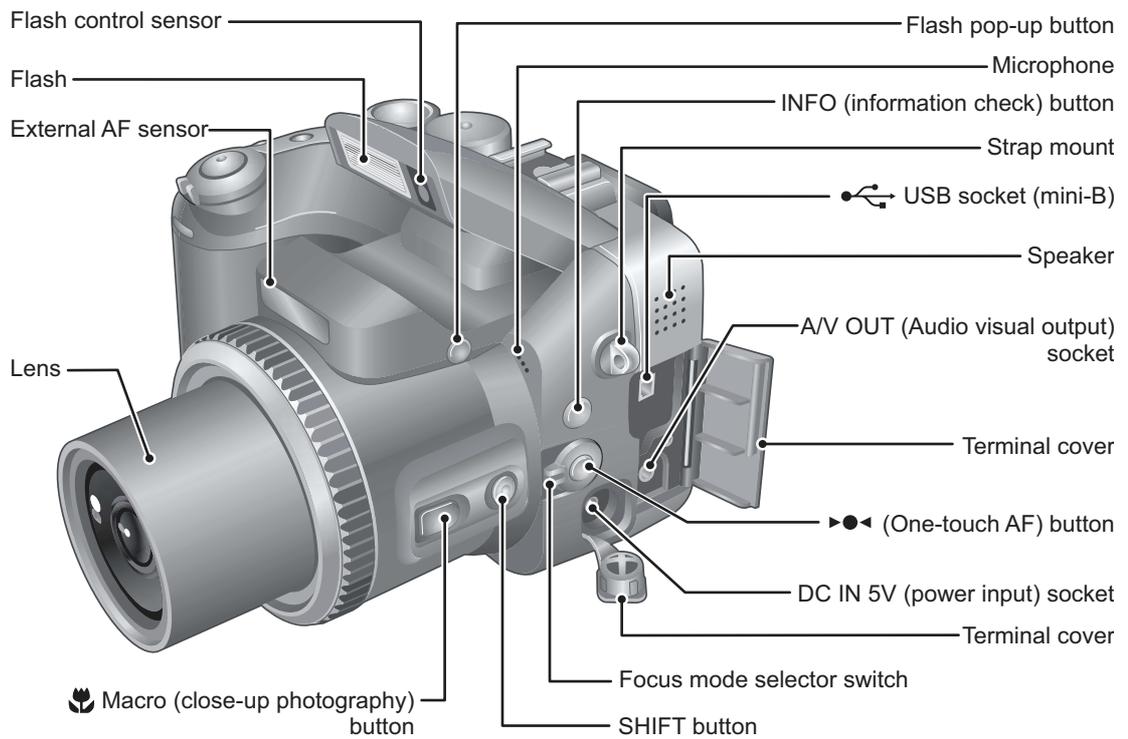
\* The number of available frames, recording time or file size varies slightly depending on the subjects photographed. Note also that the difference between standard number of frames and the actual number of frames is greater for media with higher capacities.

## Explanation of Terms

AF/AE Lock :	On the FinePix S7000, 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 turns features such as the LCD 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 turns the camera off. This period can be set to 2 minutes or 5 minutes on this camera. <ul style="list-style-type: none"> <li>● The Auto Power Off function does not operate in PC mode, during automatic playback, or if it is disabled during setup.</li> </ul>
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

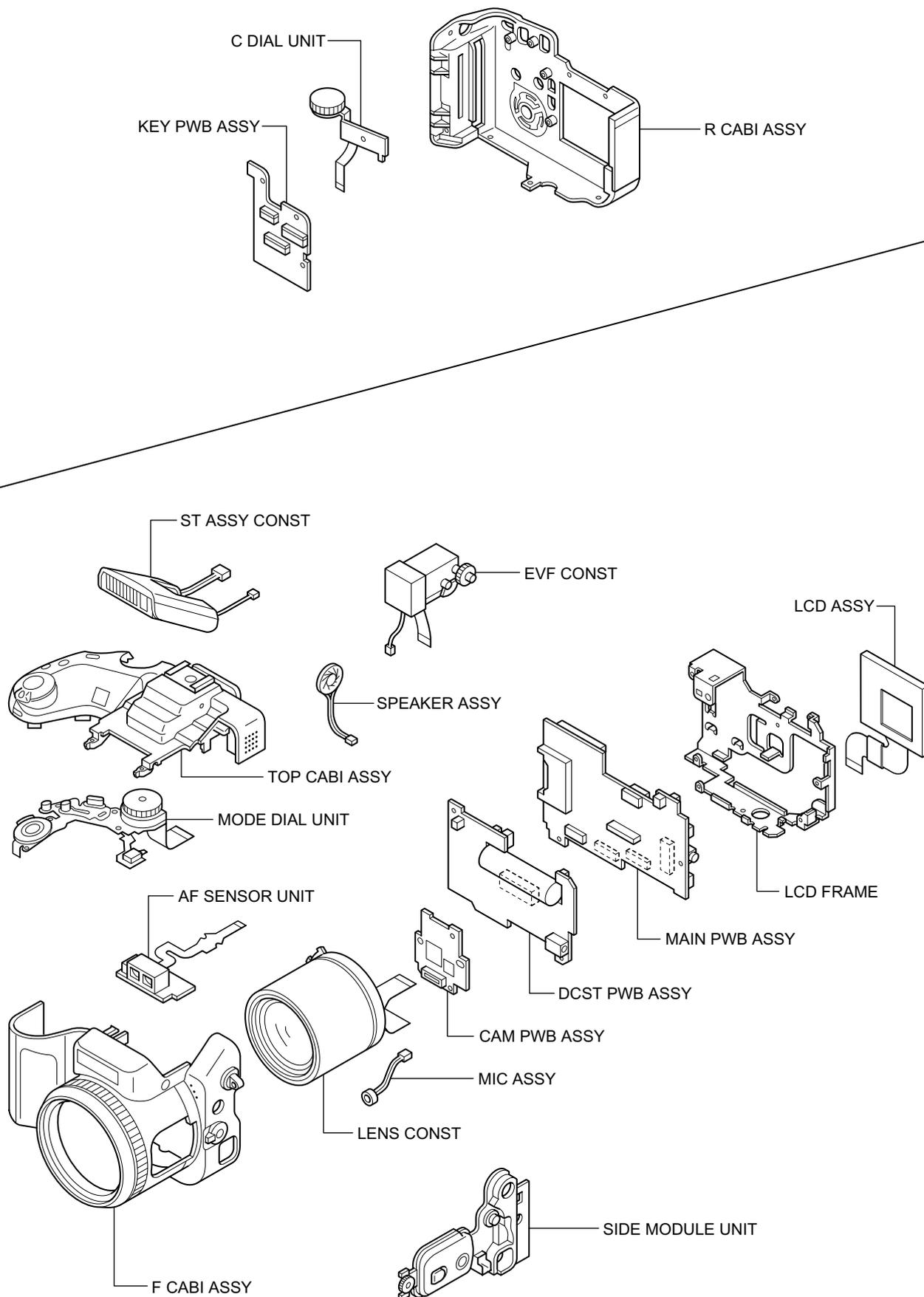




# 2. Disassembly

## 2. Disassembly

### 2-1. Names of Internal Components



## 2-2. How to remove R CABI CONST

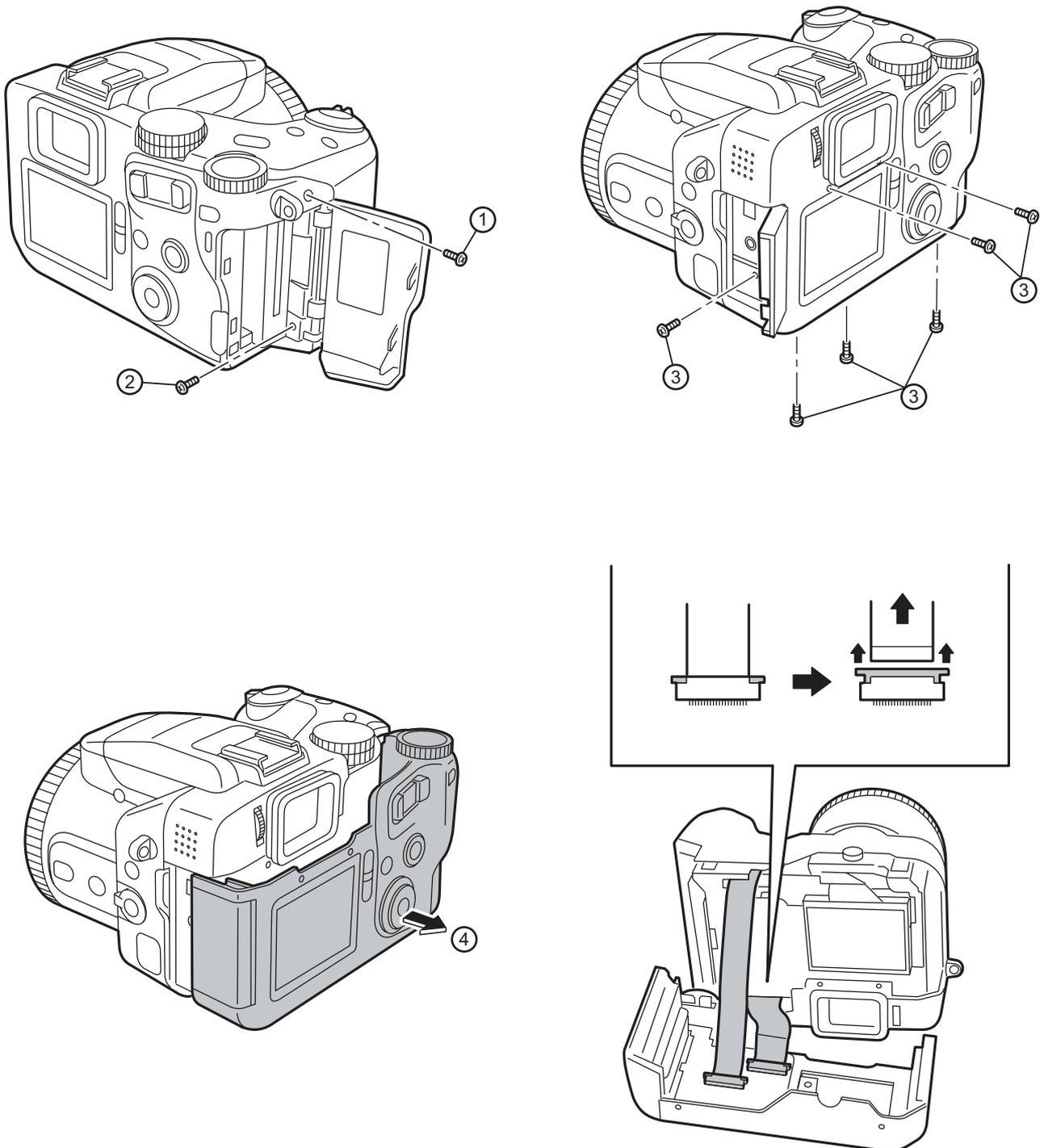
[Procedure]

1. Remove screw (M1.7x8.0).
2. Remove screw (M1.7x5.5).
3. Remove six screws (M1.7x5.0).
4. Remove R CABI CONST in the direction of the arrow.
5. Remove FFC(x2).

(The undermentioned refer to how to remove the connector. )

[Assembly procedure]

Assemble it according to a reverse procedure.



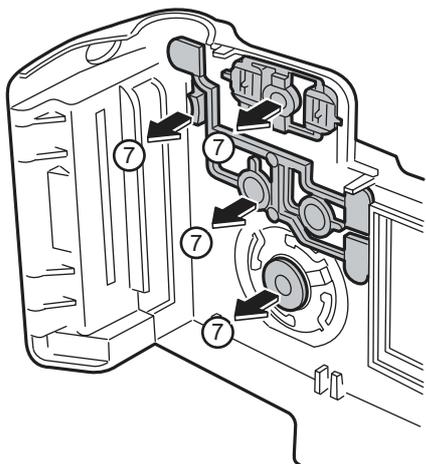
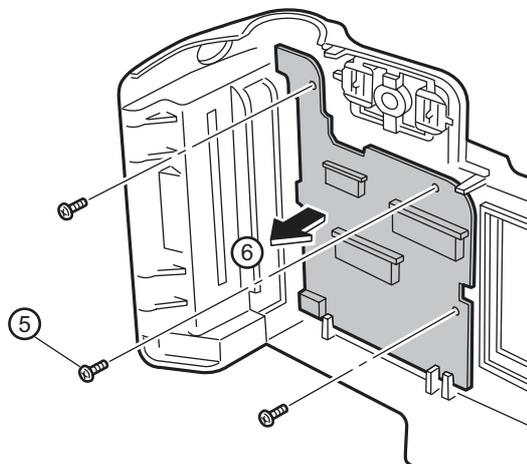
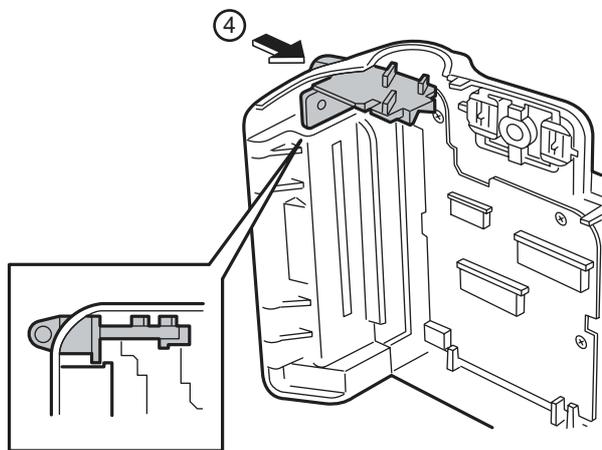
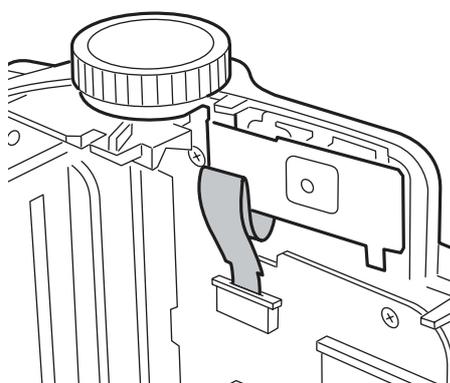
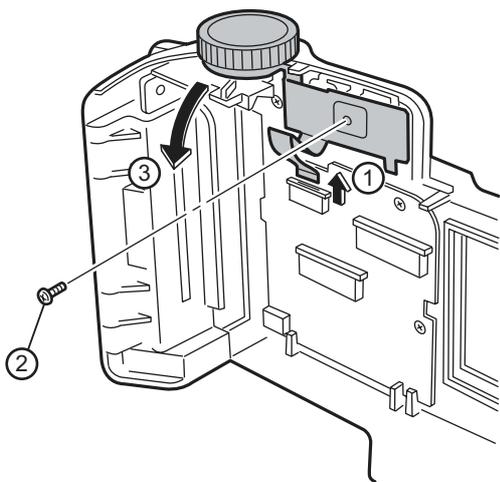
## 2-3. Decomposition of R CABI CONST

[Procedure]

1. Remove FFC from KEY PWB ASSY.
2. Remove screw (M1.7x4.0).
3. Remove C DIAL UNIT in the direction of the arrow.
4. Push STRAP L from the direction of the arrow and remove.
5. Remove three screws (M1.7x4.0).
6. Remove KEY PWB ASSY.
7. Remove OK BUTTON, REAR BUTTON, ZOOM BUTTOM, and LED LENS.

[Assembly procedure]

Assemble it according to a reverse procedure.



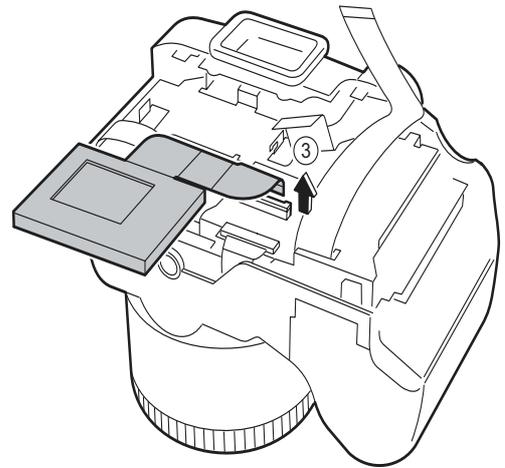
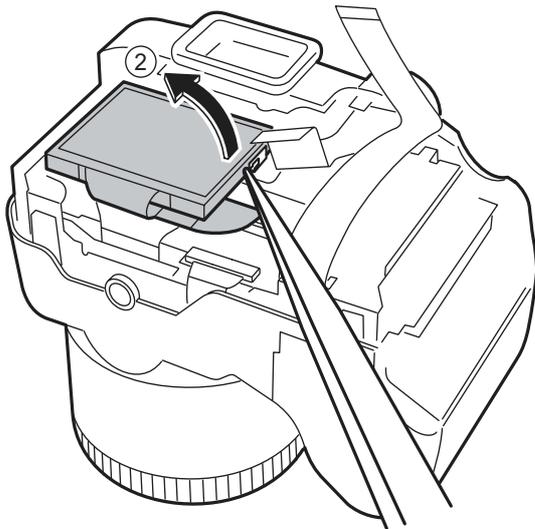
## 2-4. How to remove LCD ASSY

[Procedure]

1. Detach the undermentioned parts.

R CABI CONST

2. Put tweezers etc. in the LCD FRAME hook on LCD right side and remove LCD ASSY from LCD FRAME.
3. Remove the lock of the connector of MAIN PWB ASSY, and remove FFC from LCD ASSY.



[Assembly procedure]

Assemble it according to a reverse procedure.

## 2-5. How to remove TOP CABI CONST

[Procedure]

1. Detach the undermentioned parts.

R CABI CONST, LCD ASSY

2. Push ST BUTTON, and improve the flash in pop.

3. Detach AF PLATE to the space between AF PLATE and F CABI CONST with a needle etc.

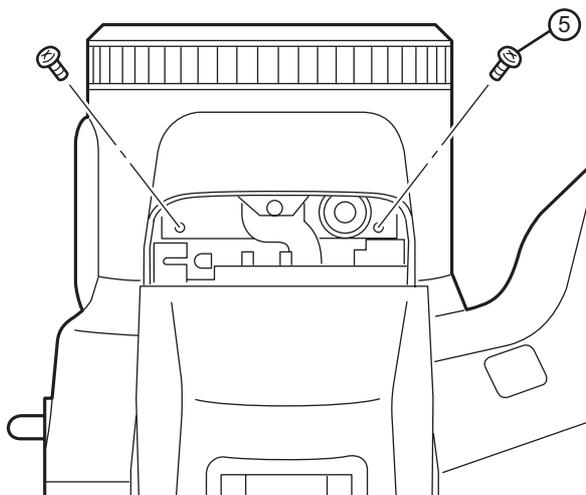
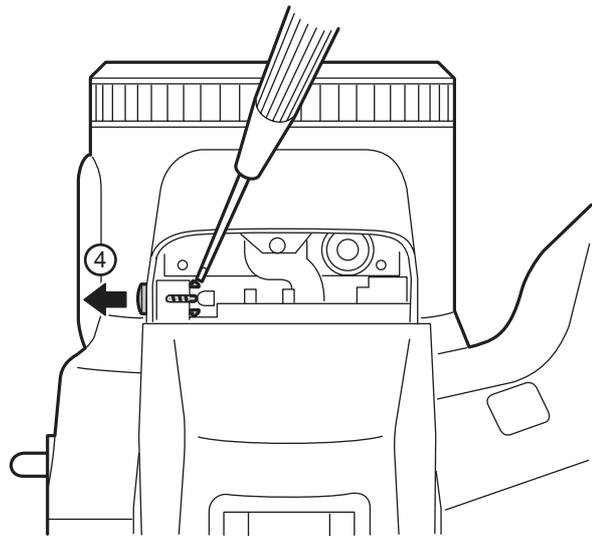
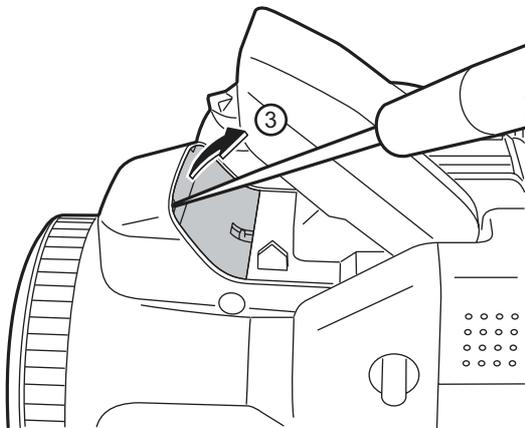
**Note that neither AF PLATE nor F CABI CONST are damaged.**

**Do not stab the finger etc. enough when you use the needle.**

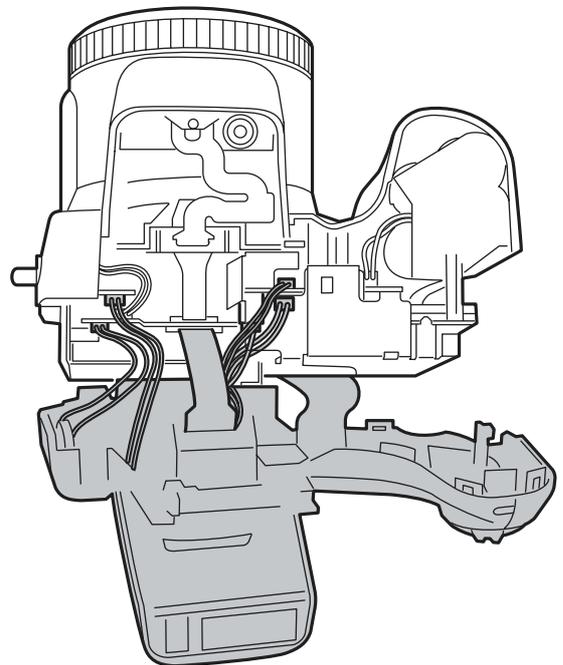
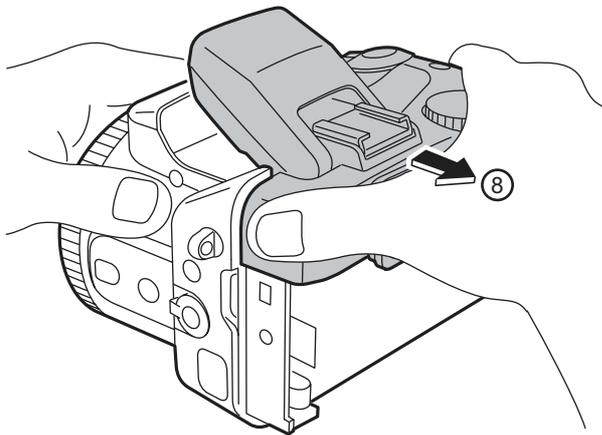
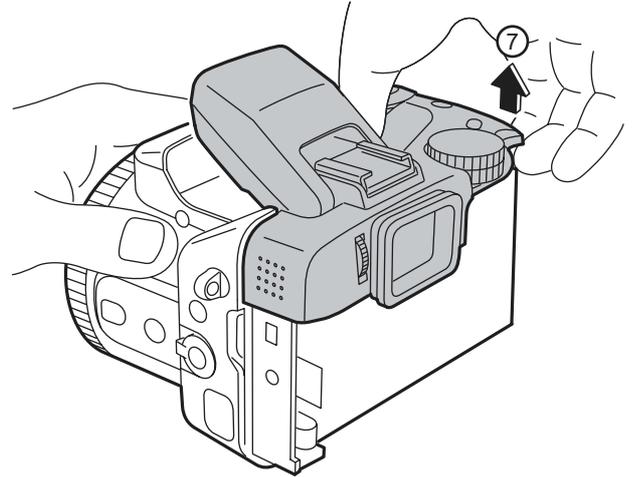
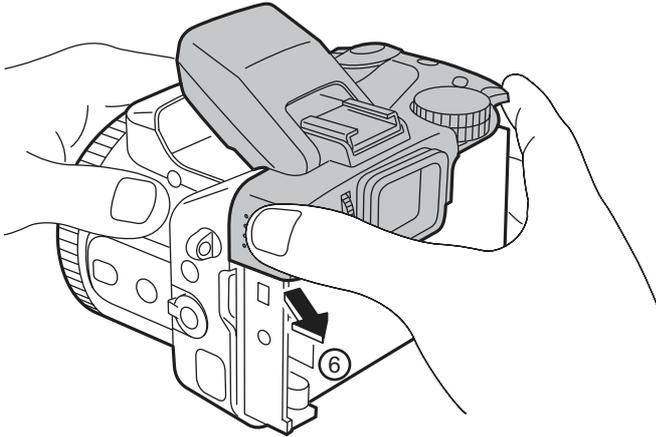
4. Remove the hook of ST BUTTON and remove ST BUTTON from the main body by using a minus driver.

**Do not lose because CSP(ST BUTTON) comes off together when ST BUTTON is detached.**

5. Remove two screws (M1.7x5.5).



6. Remove the speaker side of TOP CABI CONST in the direction of the arrow.
7. Lift the SHUTTER BUTTON side of TOP CABI CONST in the direction of the arrow and remove.
8. Remove from the main body while pulling TOP CABI CONST backward.



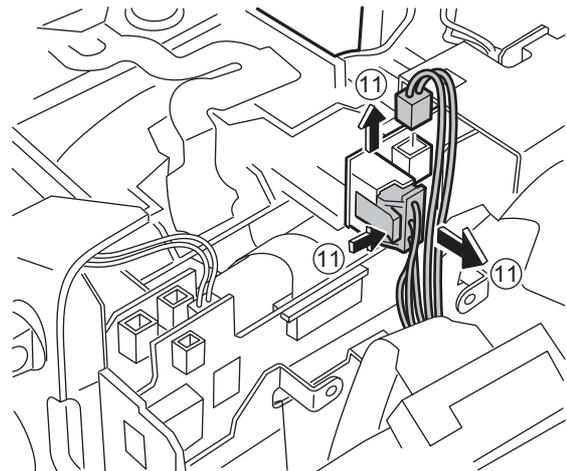
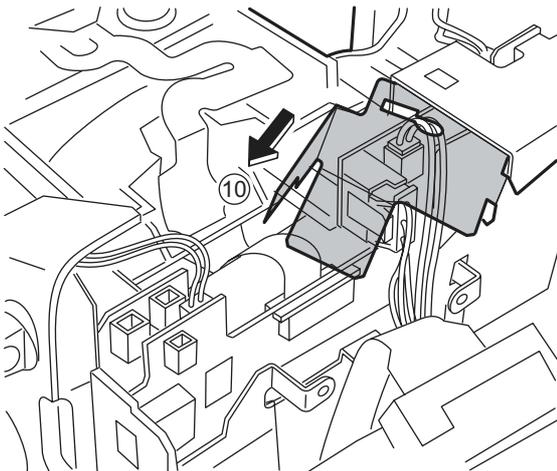
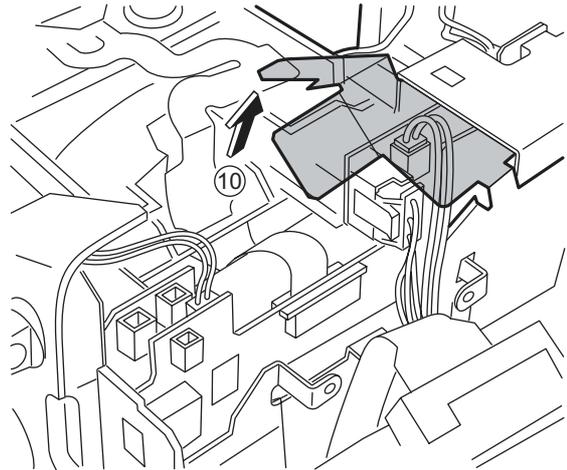
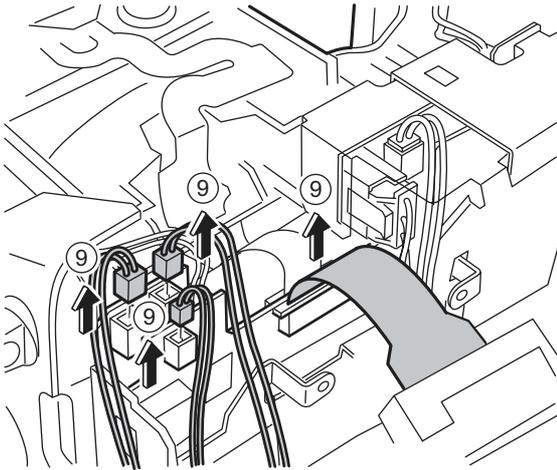
## 2. Disassembly

9. Remove Wire Harness (3) from TOP CABI CONST and FFC (1).

10. Pull out SHEET FRAME from LCD FRAME.

11. Remove Wire Harness (2).

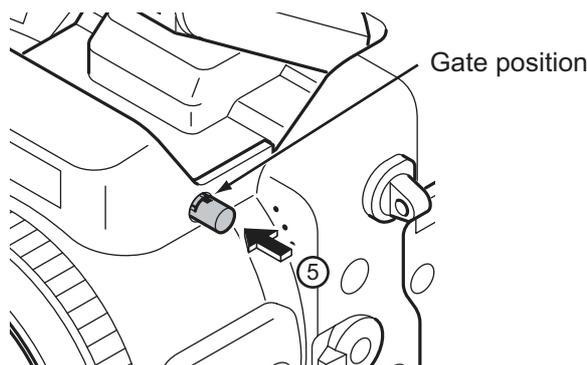
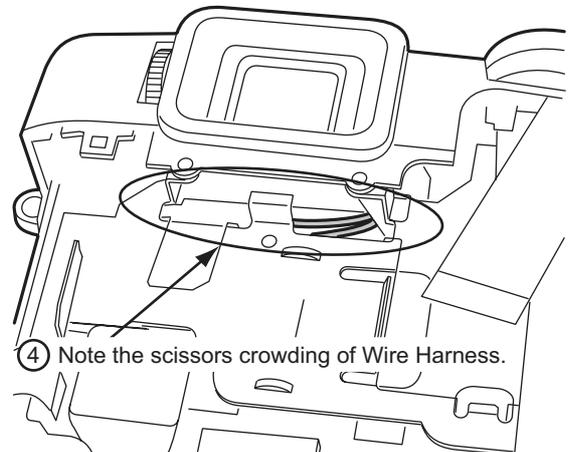
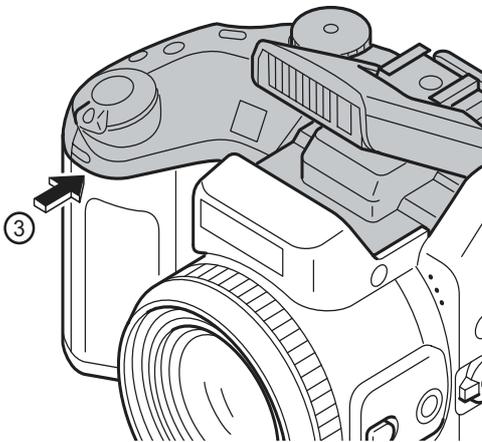
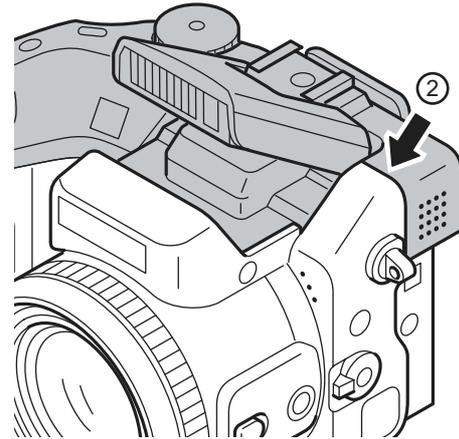
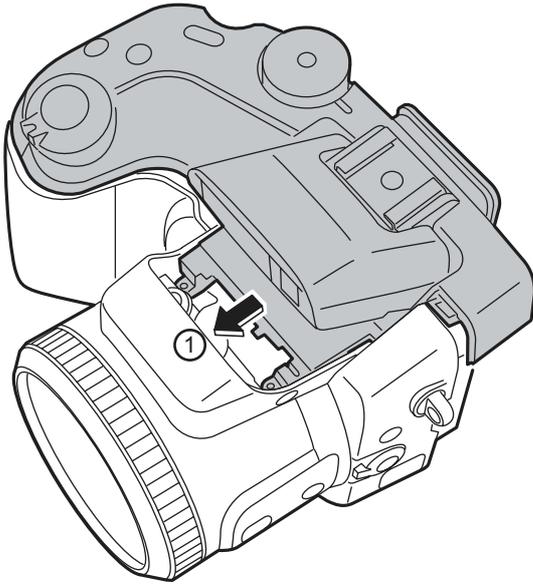
**There is no dread of the electric shock and do not touch the terminal when you remove Wire Harness for the flash from the substrate.**



[Assembly procedure]

Assemble it according to a reverse procedure.

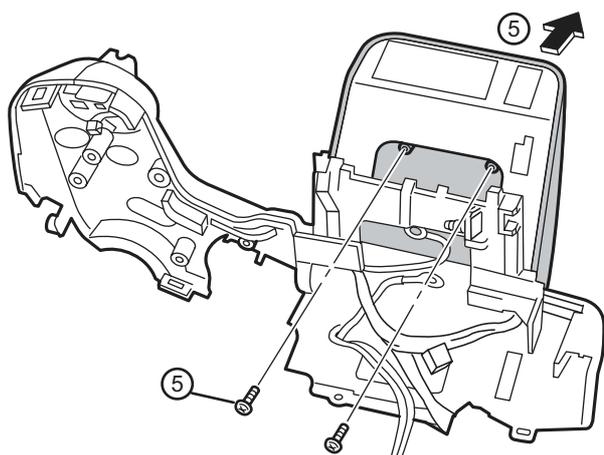
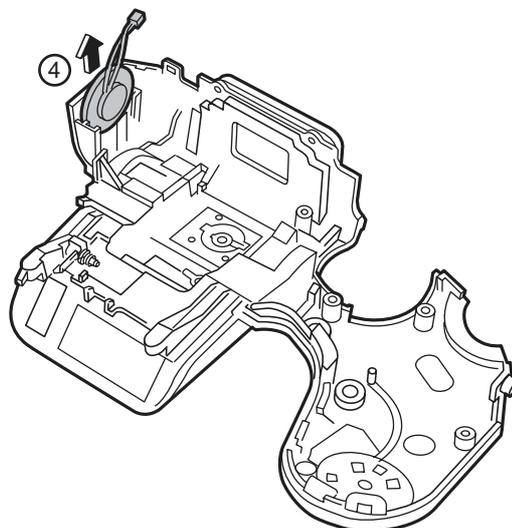
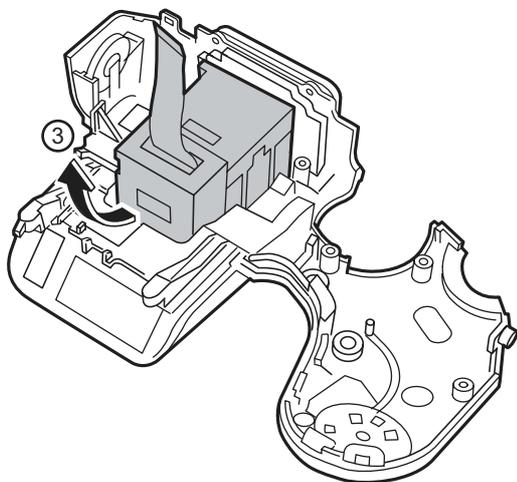
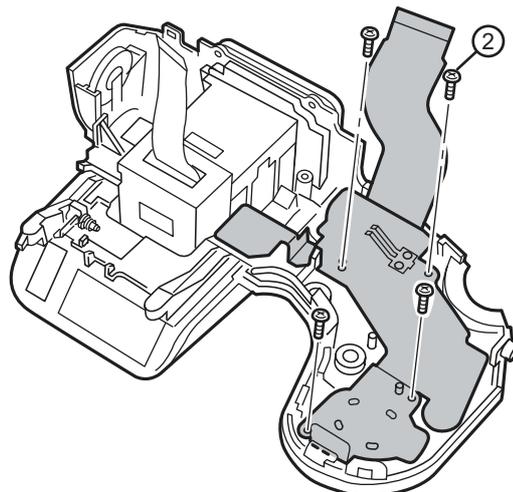
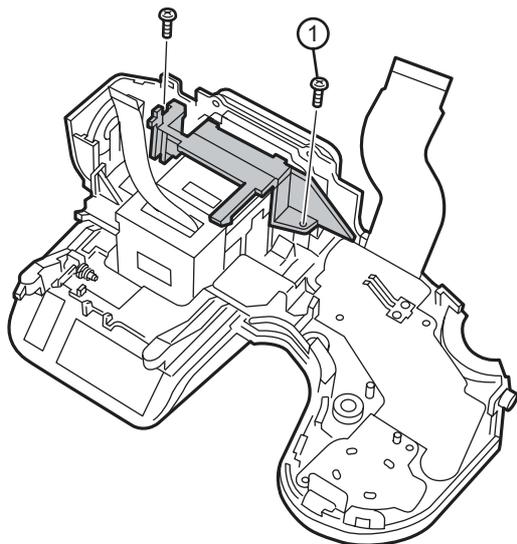
1. Combine intuition on the tip of the AF sensor when you connect all Wire Harness with FFC.
2. Combine the speaker side of TOP CABI CONST in intuition in the hook of F CABI CONST.
3. Combine the grip part in intuition surely. At this time, confirm grip rubber is turned over and not transformed.
4. Confirm TOP CABI CONST and confirm Wire Harness has been installed after it clings surely in SHEET FRAME.
5. Note that it is at the top and bottom (The gate is the above) in ST BUTTON at assembly.



## 2-6. Decomposition of TOP CABI CONST

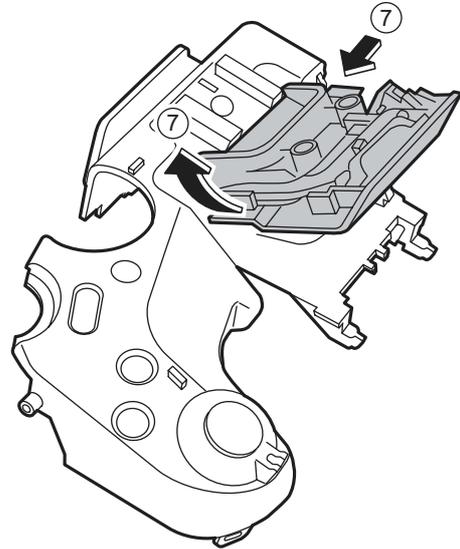
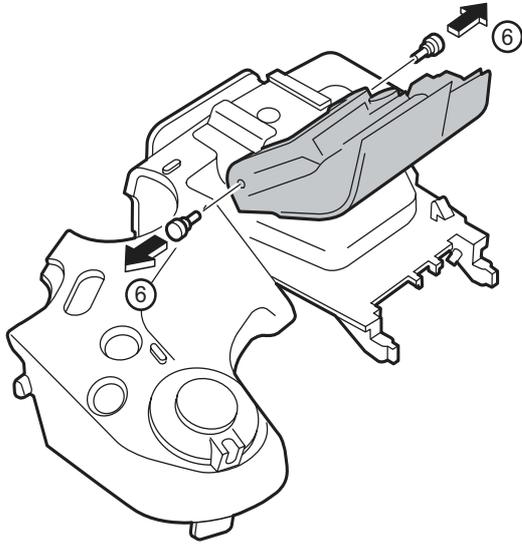
[Procedure]

1. Remove two screws (M1.7x4.0), and remove HOLDER EVF.
2. Remove four screws (M1.7x4.0), and remove MODE DIAL UNIT.
3. Remove EVF CONST.
4. Remove SPEAKER ASSY.
5. Remove two screws (M1.7x4.0), and remove ST TOP.



6. Remove ST SHUFT(x2).

7. Lift while pressing ST ASSY CONST against the SHUTTER BUTTON side and remove.



[Assembly procedure]

Assemble it according to a reverse procedure.

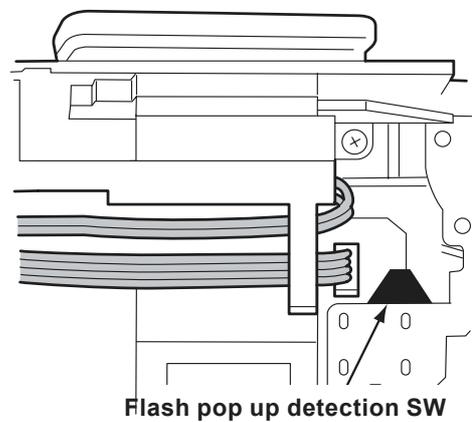
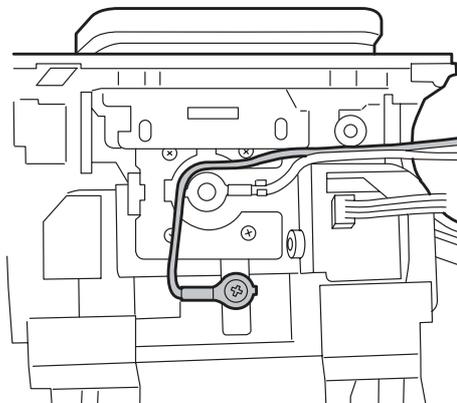
[Notes of assembly]

**Note the taking turning of the flash hiss harness.**

**Pass the flash hiss harness and the flash harness through the fingernail of HOLDER EVF.**

**Do not float on the flash hiss harness and the flash harness.**

**<harness> do not interfere in flash pop up detection SW.**



Flash pop up detection SW

## 2-7. How to remove LCD FRAME CONST

[Procedure]

1. Detach the undermentioned parts.

R CABI CONST, LCD ASSY, ST PLATE, ST BUTTON, TOP CABI CONST

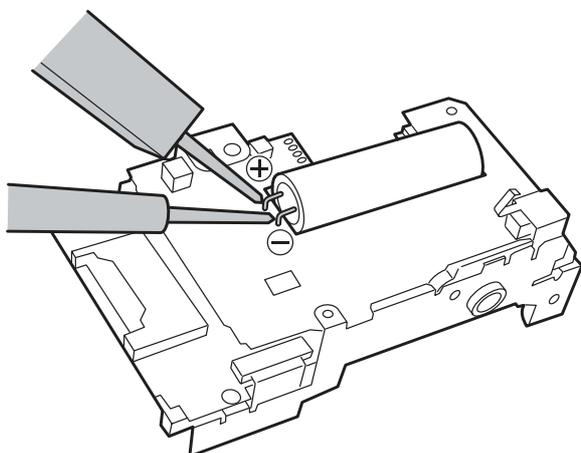
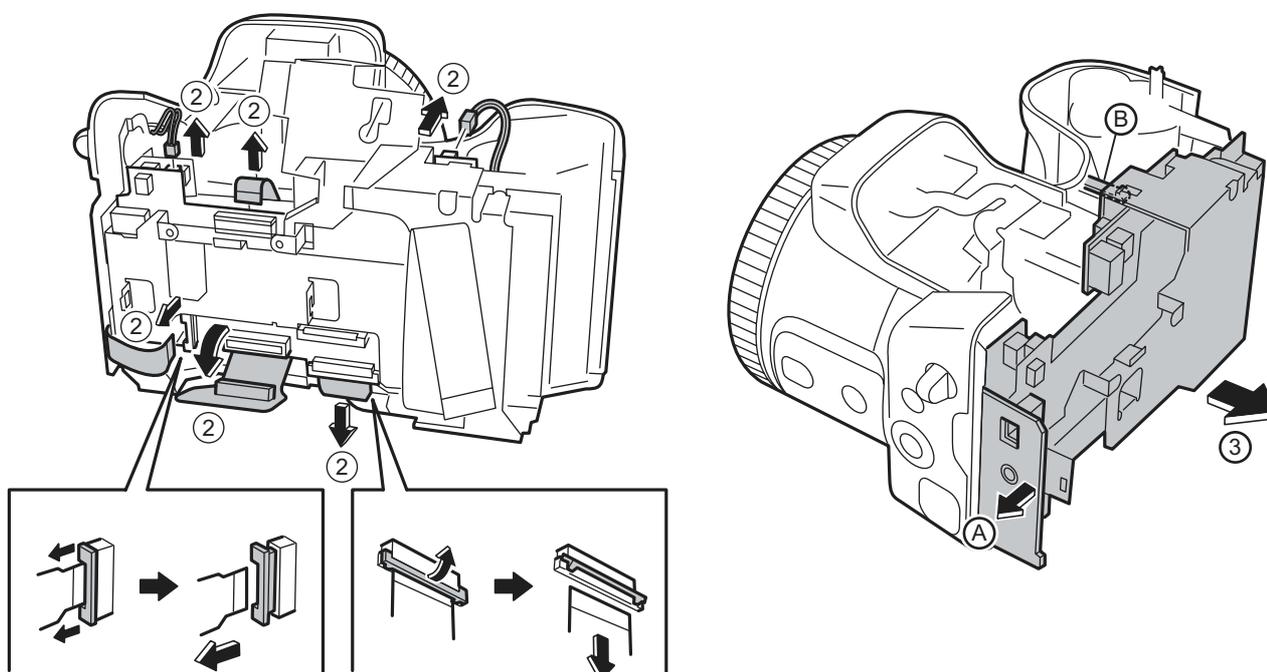
2. Remove FFC Wire Hanes (4)(2).

3. Remove main body A and part B, and remove LCD FRAME CONST.

4. Discharge electricity from the main capacitor of DCST PWB ASSY.

[Assembly procedure]

Assemble it according to a reverse procedure.



## 2-8. Decomposition of LCD FRAME CONST

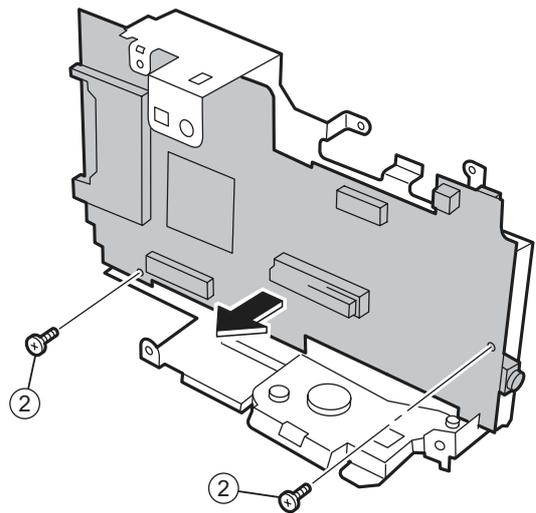
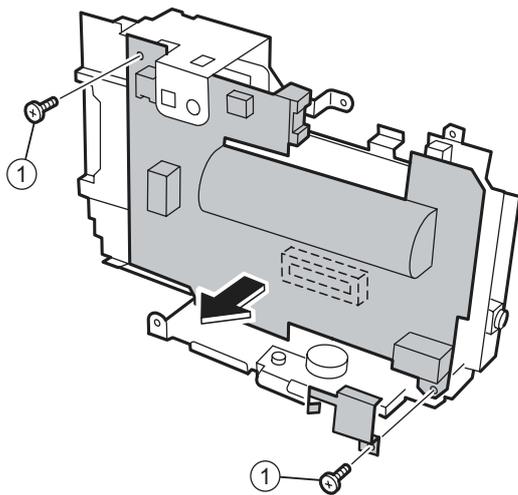
[Procedure]

Confirm the main capacitor of DCST PWB ASSY has been discharged without fail before work is started.

1. Remove two screws (M1.7x3.0), and remove CONTACT PLT and DCST PWB ASSY.
2. Remove two screws (M1.7x3.0), and remove MAIN PWB ASSY.

[Assembly procedure]

Assemble it according to a reverse procedure.



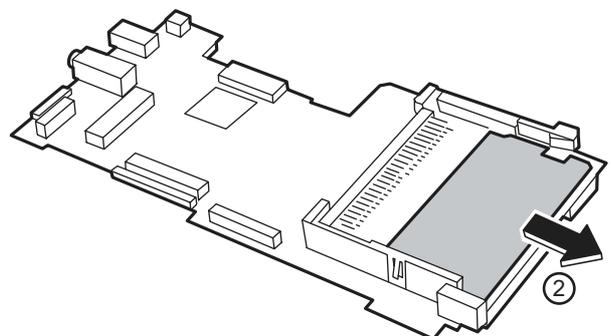
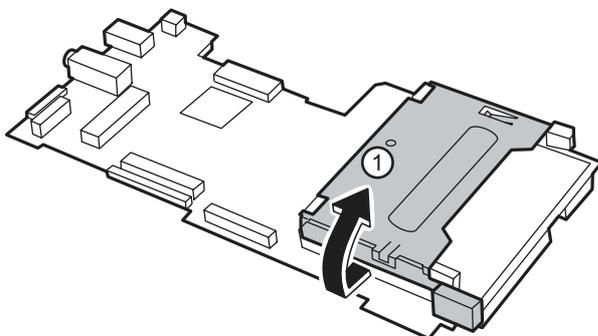
## 2-9. Decomposition of MAIN PWB ASY

[Procedure]

1. Remove EJECTER in the direction of the arrow.
2. Remove SHEET CF.

[Assembly procedure]

Assemble it according to a reverse procedure.



## 2-10. How to remove SHEET FRAME

[Procedure]

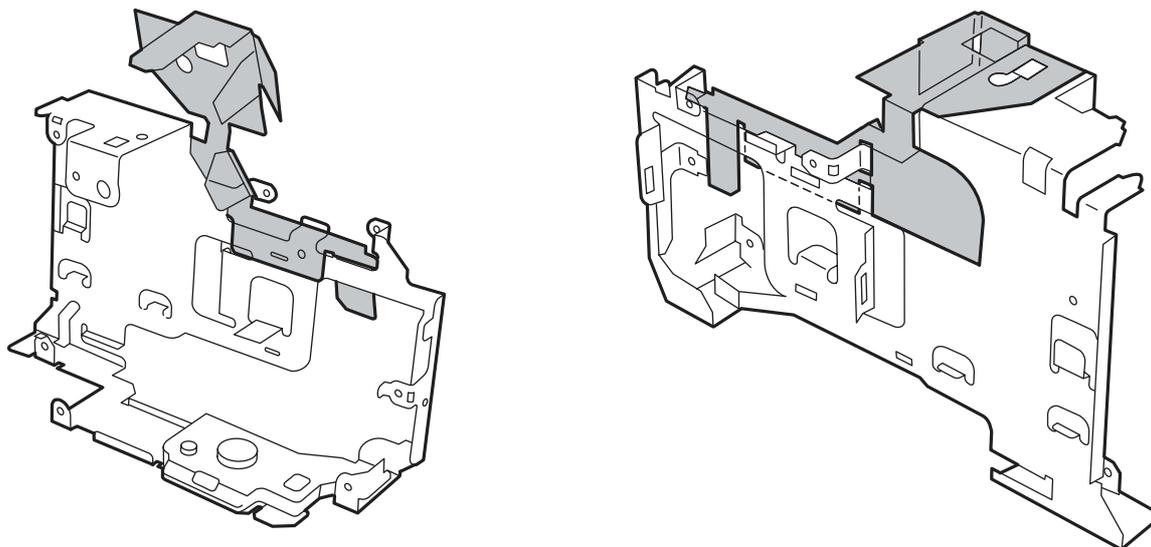
1. Remove SHEET FRAME from LCD FRAME.

[Assembly procedure]

Assemble it according to a reverse procedure.

[Notes of assembly]

Note the damage of SHEET FRAME when you install SHEET FRAME in LCD FRAME.



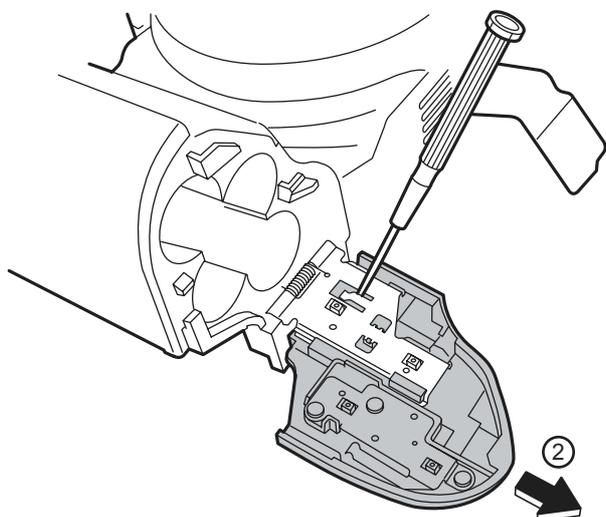
## 2-11. How to remove BATTERY LID

[Procedure]

1. Lift the hook of BATTERY LID, and remove BATTERY LID.

[Assembly procedure]

Assemble it according to a reverse procedure.



## 2-12. How to remove BATTERY HOLDER UNIT

[Procedure]

1. Detach the undermentioned parts.

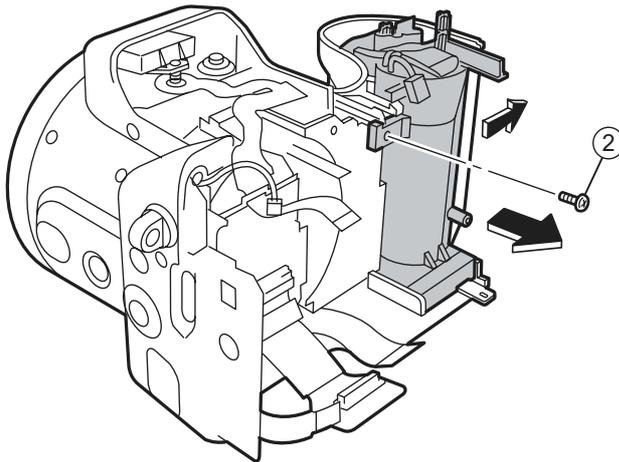
R CABI CONST, LCD ASSY, ST PLATE, ST BUTTON, TOP CABI CONST, LCD FRAME CONST  
BATTERY LID

2. Remove screw (M1.7x5.0).

3. Remove BATTERY HOLDER UNIT from the main body while opening the main body grip part.

[Assembly procedure]

Assemble it according to a reverse procedure.



## 2-13. How to remove CAM PWB ASSY

[Procedure]

1. Detach the undermentioned parts.

R CABI CONST, LCD ASSY, ST PLATE, ST BUTTON, TOP CABI CONST, LCD FRAME CONST

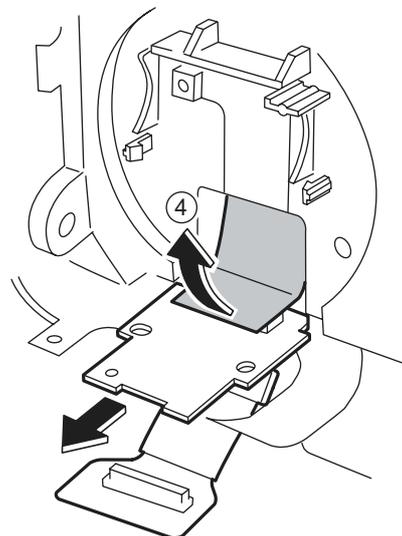
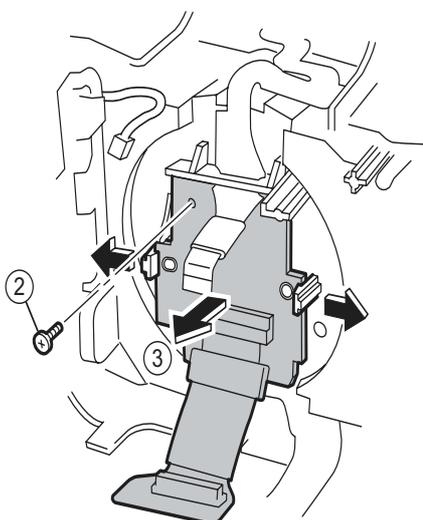
2. Remove screw (M1.7x5.0).

3. Open the hook of LENS FRAME, and remove CAM PWB ASSY in the direction of the arrow.

4. Remove FPC from LENS CONST, and remove CAM PWB ASSY from the main body.

[Assembly procedure]

Assemble it according to a reverse procedure.



## 2-14. How to remove LENS FRAME

[Procedure]

1. Detach the undermentioned parts.

R CABI CONST, LCD ASSY, ST PLATE, ST BUTTON, TOP CABI CONST, LCD FRAME CONST  
BATTERY LID, BATTERY HOLDER UNIT, CAM PWB ASSY

2. Remove FFC from LENS FRAME.

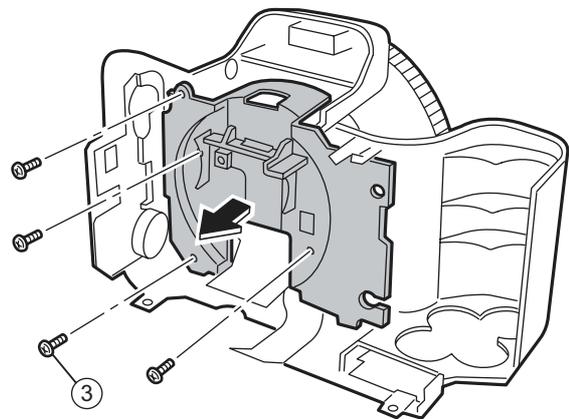
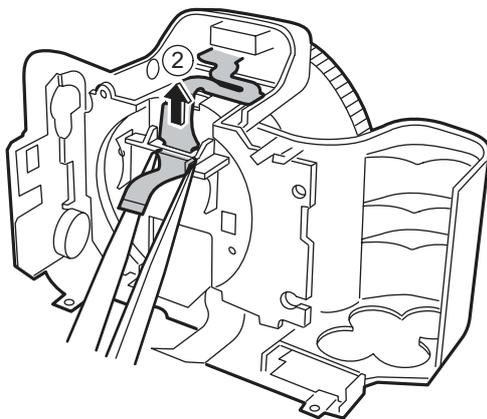
3. Remove screw (M1.7x5.0), and remove LENS FRAME from the main body.

[Assembly procedure]

Assemble it according to a reverse procedure.

[Notes of assembly]

Do so as not to cut FFC adding impossible power when you build FFC into LENS FRAME noting it.



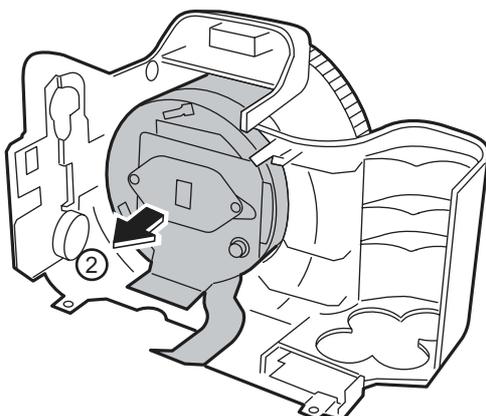
## 2-15. How to remove LENS CONST

[Procedure]

1. Detach the undermentioned parts.

R CABI CONST, LCD ASSY, ST PLATE, ST BUTTON, TOP CABI CONST, LCD FRAME CONST  
BATTERY LID, BATTERY HOLDER UNIT, CAM PWB ASSY, LENS FRAME

2. Remove LENS CONST from F CABI UNIT.

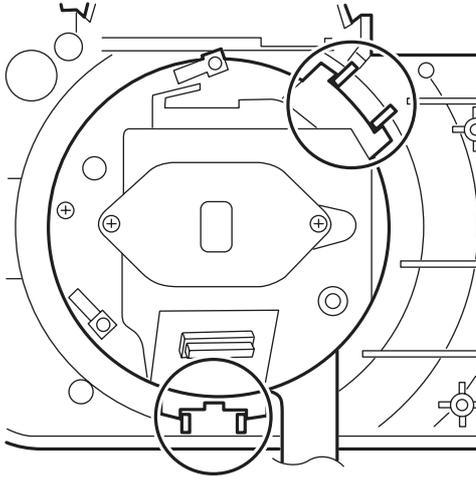


[Assembly procedure]

Assemble it according to a reverse procedure.

[Notes of assembly]

**Make the cutting lack of the rib and LENS CONST of F CABI CONST combined in intuition, and build it in when you build in LENS CONST.**



## 2-16. How to remove LENS CABI ASSY

[Procedure]

1. Detach the undermentioned parts.

R CABI CONST, LCD ASSY, ST PLATE, ST BUTTON, TOP CABI CONST, LCD FRAME CONST  
BATTERY LID, BATTERY HOLDER UNIT, CAM PWB ASSY, LENS FRAME, LENS CONST

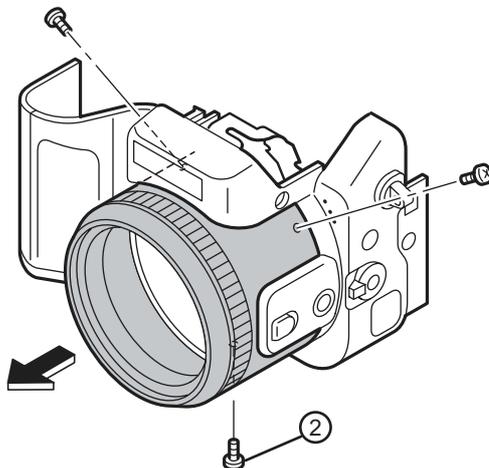
2. Remove three screws (M1.7X3.5), and remove LENS CABI ASSY.

[Assembly procedure]

Assemble it according to a reverse procedure.

[Attention]

**Because the torque is managed as for FOCUS RING of LENS CABI ASSY, it is not possible to decompose.**



## 2-17. How to remove SIDE MODULE UNIT

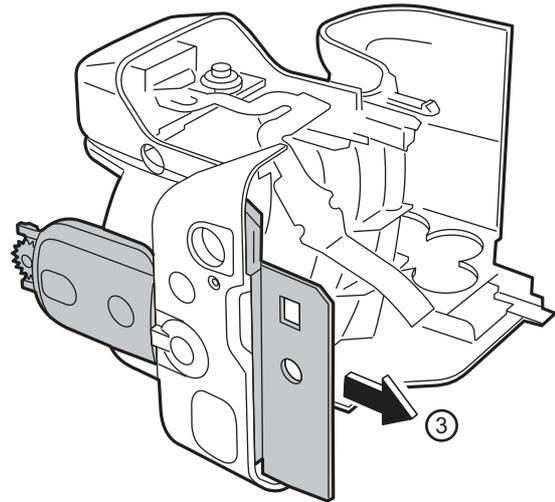
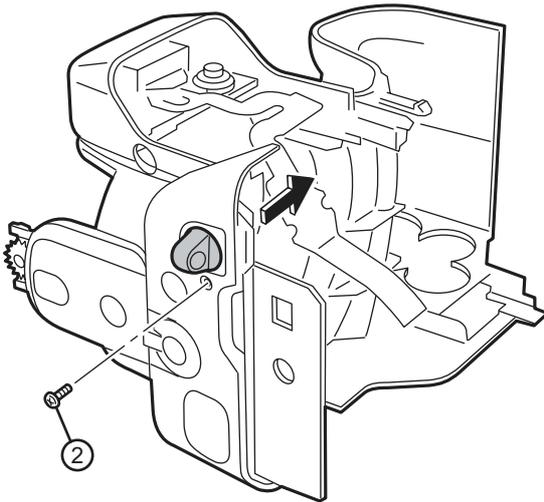
[Procedure]

1. Detach the undermentioned parts.

R CABI CONST, LCD ASSY, ST PLATE, ST BUTTON, TOP CABI CONST, LCD FRAME CONST  
BATTERY LID, BATTERY HOLDER UNIT, CAM PWB ASSY, LENS FRAME, LENS CONST  
LENS CABI ASSY

2. Remove screw (M1.7x5.0), and remove STRAP R.

3. Remove SIDE MODILE UNIT from F CABI ASSY.

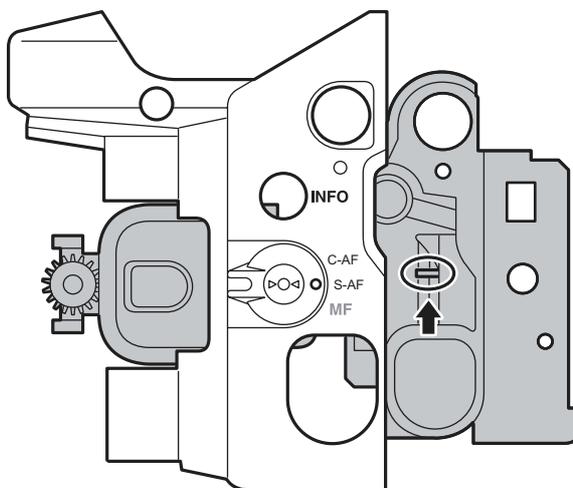


[Assembly procedure]

Assemble it according to a reverse procedure.

[Notes of assembly]

**Match and build in the position of the FOCUS switch lever of FOCUS switch SW and F CABI ASSY of SIDE MODILE UNIT.**



## 2-18. How to remove AF SENSOR UNIT

[Procedure]

1. Detach the undermentioned parts.

R CABI CONST, LCD ASSY, ST PLATE, ST BUTTON, TOP CABI CONST, LCD FRAME CONST  
 BATTERY LID, BATTERY HOLDER UNIT, CAM PWB ASSY, LENS FRAME, LENS CONST  
 LENS CABI ASSY

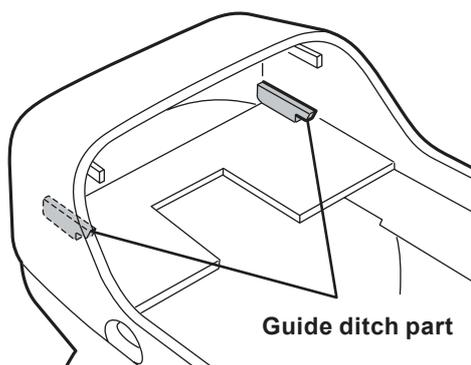
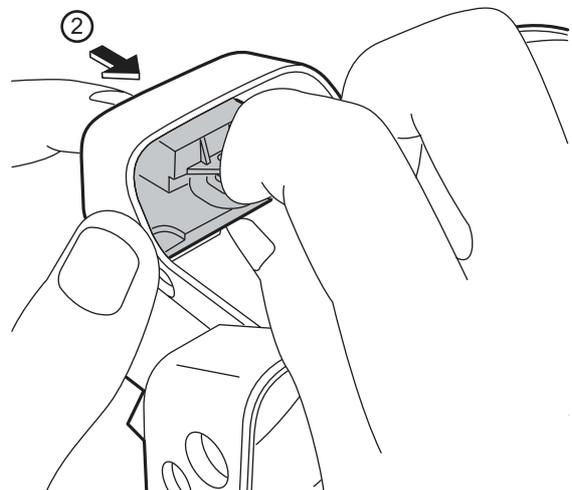
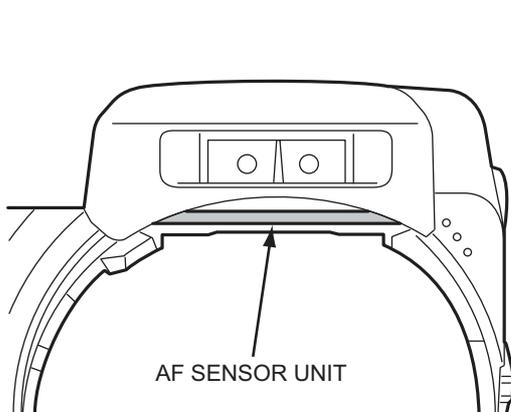
2. Remove AF SENSOR UNIT in the direction of the arrow while pushing the front side part of AF SENSOR UNIT by the finger.

[Assembly procedure]

Assemble it according to a reverse procedure.

[Attention]

**Replace F CABI ASSY when guide ditch part F CABI ASSY is damaged when AF SENSOR UNIT is detached.**



## 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 (IC102) CCD driver ( IC101,IC103)
	PROCESS BLOCK	Image signal processing, USB communications, system control (IC210)
	LCD/EVF BLOCK	LCD/EVF output control. (IC850)
	AUDIO BLOCK	Audio IN/OUT(IC400)
DCST PWB ASSY	DC/DC BLOCK	Power supply generation (IC500)
	POWER ON BLOCK	Power supply management ,Key function(IC300)
	FLASH BLOCK	Flash charging control (IC601)
	MOTOR BLOCK	Shutter/iris/AF/zoom drive (IC353)
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

- Use of [the 4th Generation Super CCD Honeycomb HR] has improved still photography performance. The 6.3 million effective pixels, and [the Honeycomb Signal Processing System], allows recording and reproduction of high-quality images of up to 4048 x 3040 (1.23 million) pixels. These features permit [Candle Shots] at ISO1600/800 in the 1Mega mode, a capability facilitated by the use of the unique honeycomb picture element which receives light over a wide area, technical developments in **pixel summing signal processing\*1**, and noise reduction technology.
  - Movie photography performance is improved. **Horizontal/vertical pixel mixing\*2** inside the CCD using a new data transfer system is the first to provide 30 frames per second in VGA format at greater than 3 megapixels.
  - [High-speed Twin AF] uses both an external AF sensor (passive phase difference) and the CCD AF for higher-speed autofocus.
  - The [Super Macro] feature allows photography of a subject at distances down to one centimeter.
  - The [Double Slot] feature provides for both xD media and microdrives, allowing both recording of the large volumes of image data in the high image quality mode, and long movies.
- \*1 : Image data obtained with honeycomb signal processing from twice the number of effective pixels. Shrinks four pixels into one. This processing increases the signal level (sensitivity) by a factor of four, and the S/N ratio (signal-to-noise ratio) by a factor of two, to permit photography at ISO1600.
- \*2 : Mixes two pixels on the vertical axis, and two pixels on the horizontal axis, of the CCD. This processing increases the signal level by a factor of four, and the S/N ratio by a factor of two, to provide high sensitivity and high quality images, while at the same time allowing data to be read at high-speed (30 frames per second in VGA format).

## 3-3-2.CAM Board Block Functions

**Photography Circuit Functions (CAM BLOCK)**

- The analog video signal output from the newly developed CCD (1/1.7", 6.3 million effective pixels, square pixel honeycomb array, primary color CCD) is processed (pseudo-color compensation, adaptive interpolation, amplification, and signal mixing) in **ACS\_IC (IC102:CSP\_IC)**, and subsequently converted to a 12-bit digital signal. The digital signal is then sent to the single chip image signal processing LSI : **UCS2\_IC (IC210 : CSP\_IC\*)**.
- \* **CSP\_IC=Chip Size Package IC**

## 3-3-3.MAIN Board Block Functions

**Image Signal Processing Functions (PROCESS BLOCK)**

- Data input from CCD
- \* The 12-bit digital image data (1H equivalent) output from the CAM BLOCK is sent to **UCS2\_IC**, buffered in the IBUF, and converted to 32-bit (16-bit x 2) data. The 32-bit image data is then sent from the [I/O Buffer] in **UCS2\_IC** and stored in the **SDRAM\_IC (IC208, IC209 : 40 Mbyte)**. A single frame (4080 pixels x 3040 lines) of image data is temporarily stored in the **SDRAM\_IC**.
- \* At the same time, AE multiplies the 12-bit image data input from the **UCS2\_IC** in [AUTO], and sends the data required for AE/AWB/AF to the **SDRAM\_IC**. To provide the appropriate data for AE/AWB/AF, this data is then sent from the **SDRAM\_IC** in serial format to the **ACS\_IC** via the **UCS2\_IC**.
- Recording in the xD media  
The image data stored in the **SDRAM\_IC** is converted from 32-bit to 12-bit data one line at a time in the [IBUF] in the **UCS2\_IC**, and sent to [YC PRO]. The image data is then converted to 8-bit Y and C signals in [YC PRO], and then sent again to [IBUF]. The 8-bit Y and C signals are then converted to 8-bit Y, Y, Cb, and Cr signals and sent to the **SDRAM\_IC**. The image data stored in the **SDRAM\_IC** is compressed with [JPEG] in the **UCS2\_IC** and again stored in the **SDRAM\_IC**. The image data following compression is recorded sequentially in the xD media in the **UCS2\_IC**.
- Image Replay from the xD media  
The compressed image data from the xD media is sent to **UCS2\_IC**, and stored in the **SDRAM\_IC** via [MEDIA]. The compressed image data stored in the **SDRAM\_IC** is expanded with JPEG and stored again in the **SDRAM\_IC**. The expanded image data is sent to [YC PRO] via [IBUF]. Gain control for the luminance and color difference signals, and aperture processing, are performed in [YC PRO] and the image data then sent again to the **SDRAM\_IC**. The image data is then displayed via [ENCD] and [D/A].
- Movie Mode  
The 12 bit digital image data output from the (CAM BLOCK) is converted to 8-bit Y and C signals in the **UCS2\_IC** [YC PRO], and sent to the **SDRAM\_IC**. The image data stored in the **SDRAM\_IC** is compressed with [JPEG] in the **UCS2\_IC** and again stored in the **SDRAM\_IC**. The image data following compression is recorded sequentially in the SSFDC via [MEDIA] in the **UCS2\_IC**.
- The photography adjustment data is stored in the **FLASH\_ROM (In the IC210)**. The **FLASH\_ROM** also incorporates firmware.

**LCD Control Functions (LCD CONTROL BLOCK)**

- The R, G, and B signals processed in the image signal processing **UCS2\_IC** are output to the LCD panel via [LCD CONT].
- A low-temperature polysilicon TFT color LCD monitor (1.8, 118,000 pixels) is used.

**EVF Control Functions (EVF CONTROL BLOCK)**

- The R, G, and B signals processed in the image signal processing **UCS2\_IC** are output to the EVF panel via [EVF CONT].
- A high-temperature polysilicon TFT color monitor (0.44, 235,000 pixels) is used in the viewfinder.

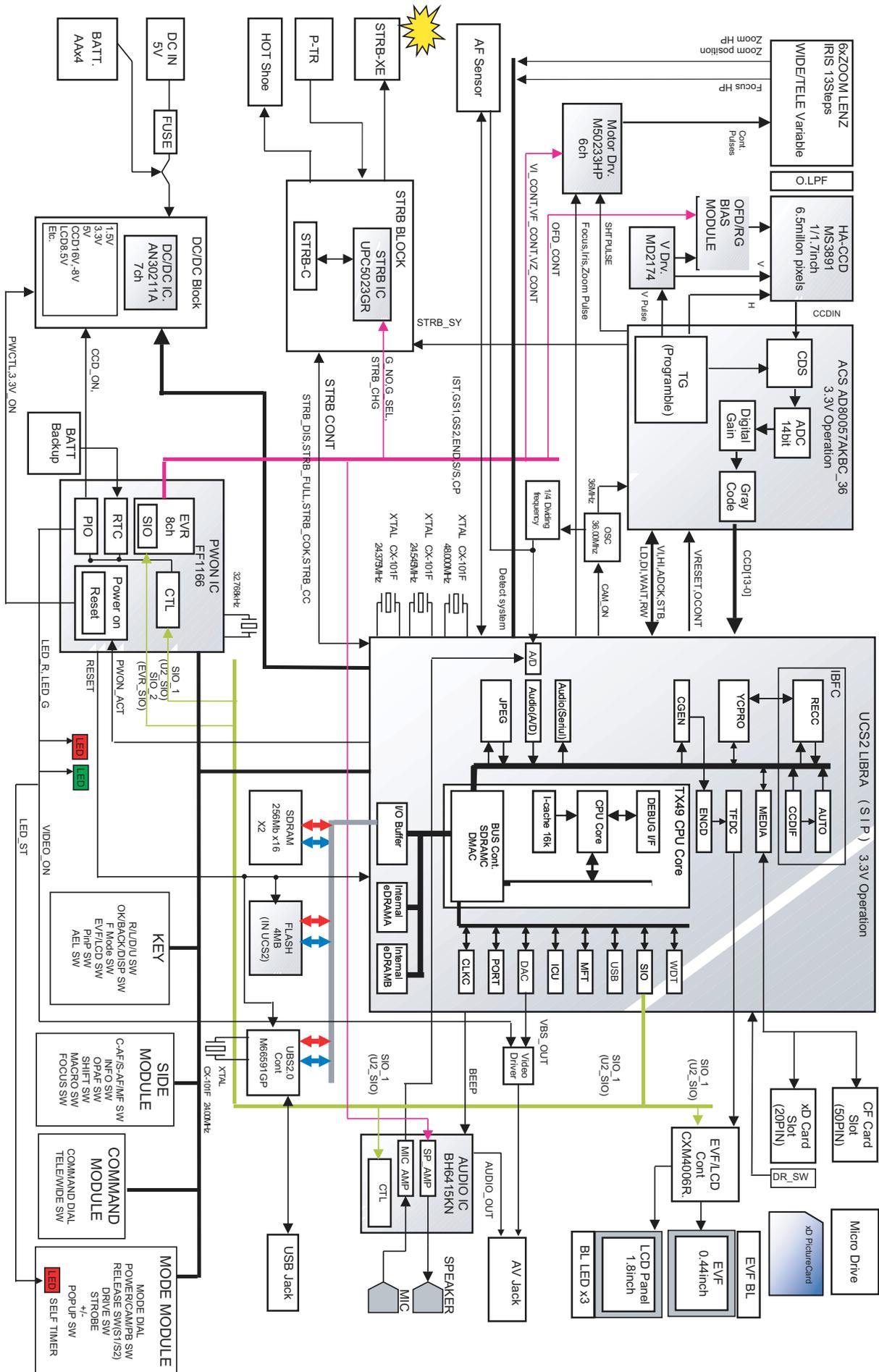
## 3-3-4.DCTS Board Block Functions

**Power Supply Functions**

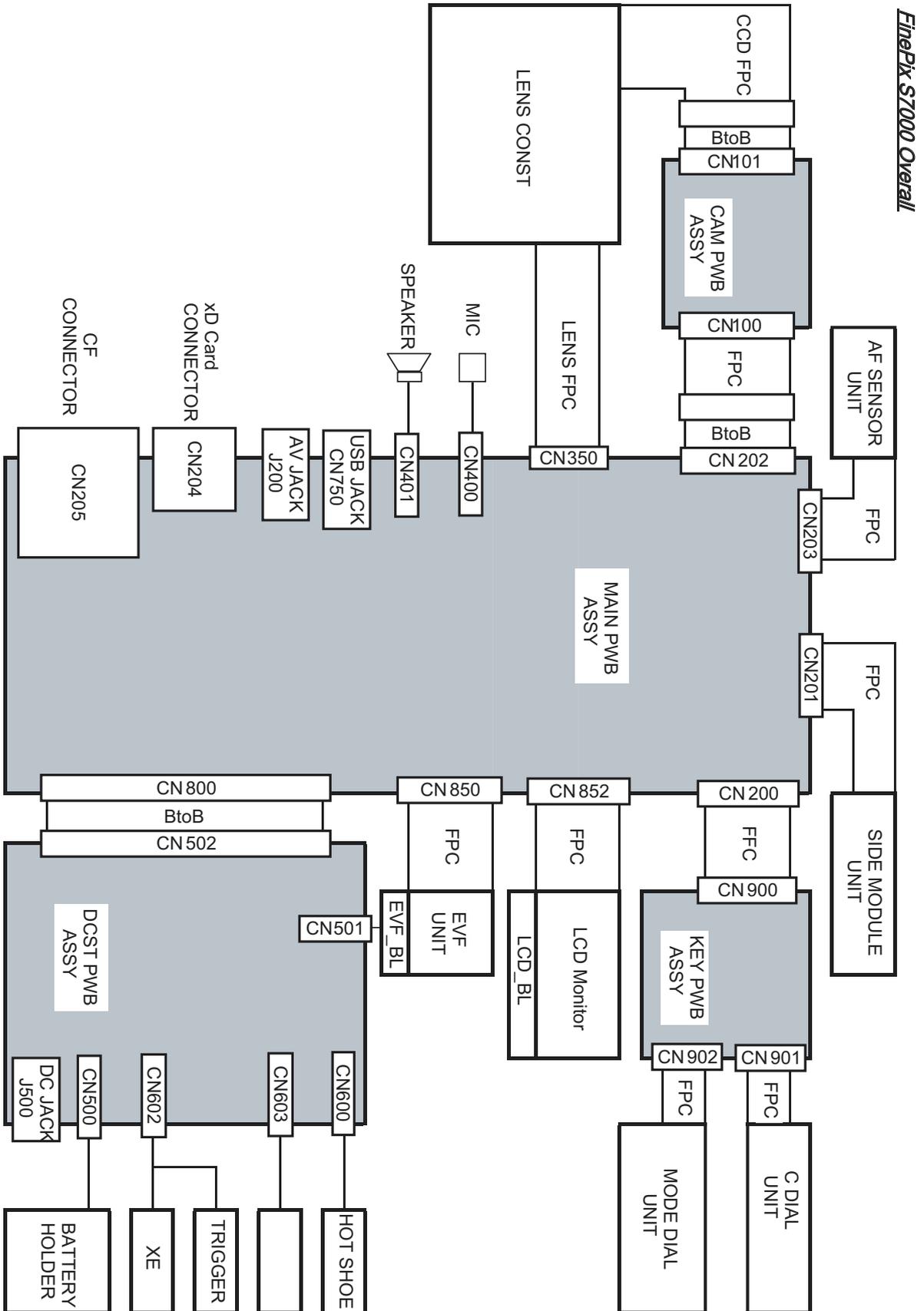
- The power supply circuit on the DCST board generates the **-8V/-11V/16V** (CCD), **1.5V** (**UCS2\_IC**), **3.3V** (**ACS\_IC/UCS2\_IC/SDRAM/SDRAM/ROM/LED/KEY**), **MOT\_5.0V** (lens/flash), **D\_5V** (AUDO), **LCD\_13V** (LCD/EVF backlight), **D\_3.3V** (LCD circuit), and **AD\_3.3V** (video circuit) voltages.

## 3-4. Block Diagram

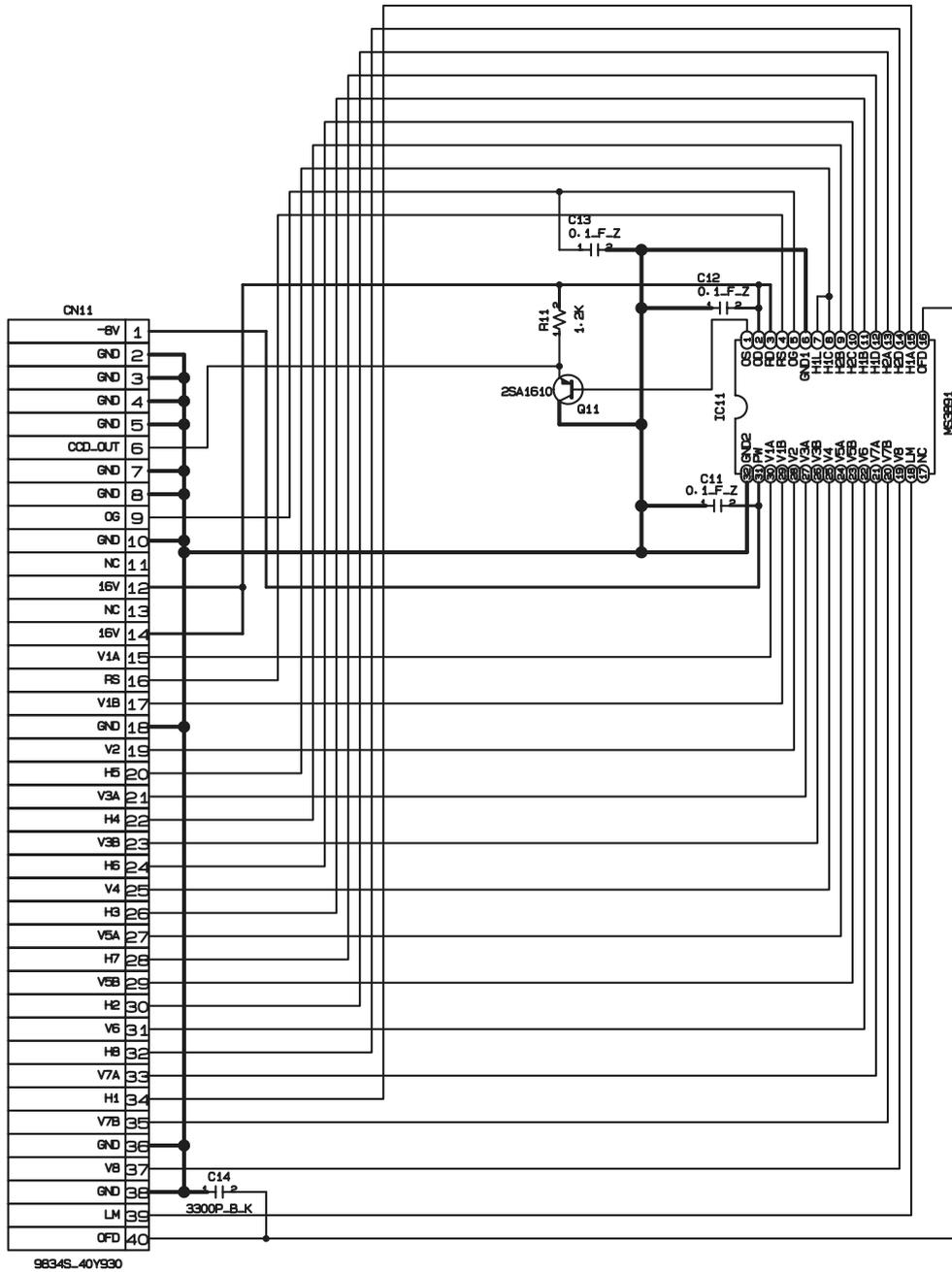
FinePix S7000 Block Diagram



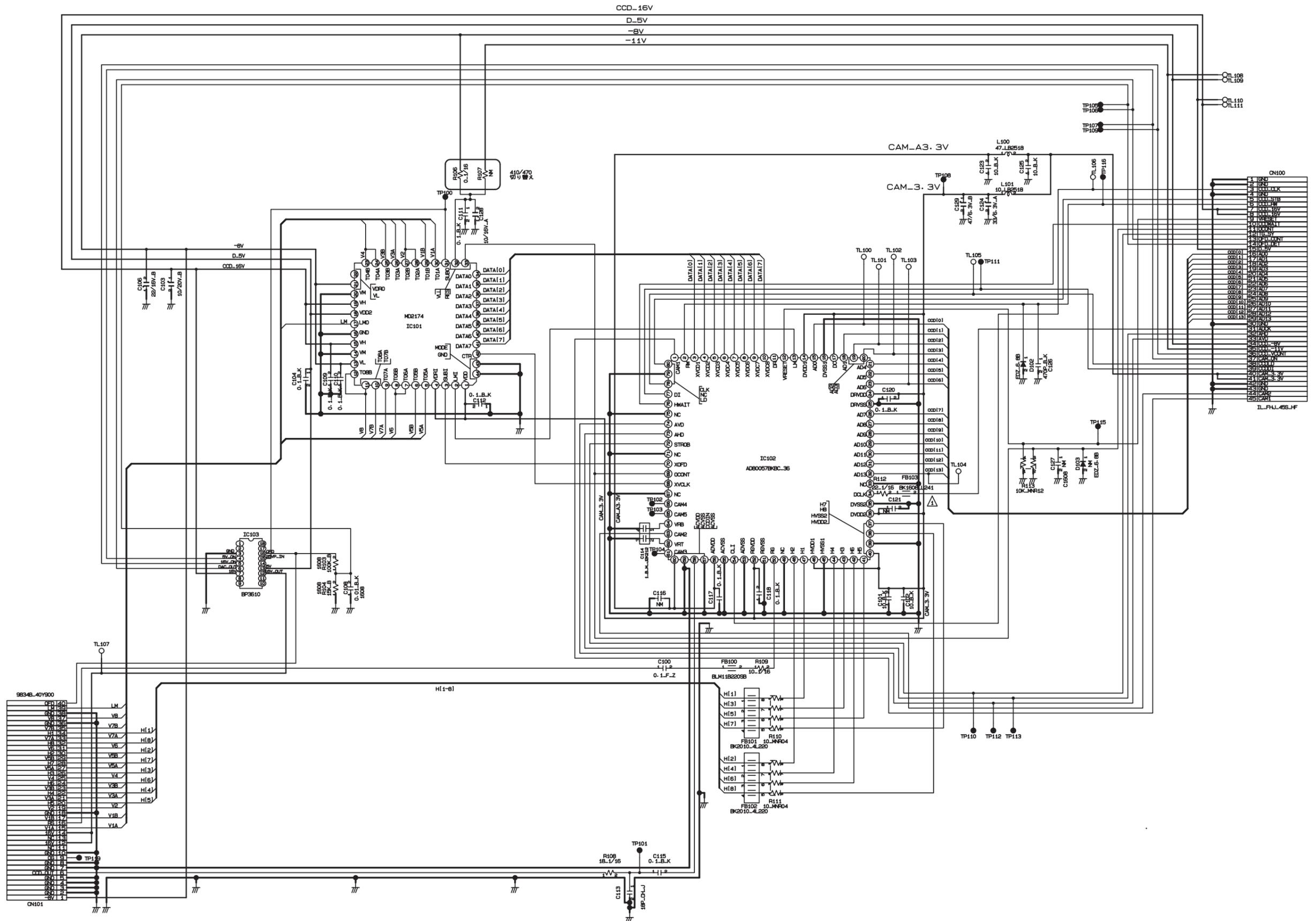
## 3-5. Overall connection Diagram



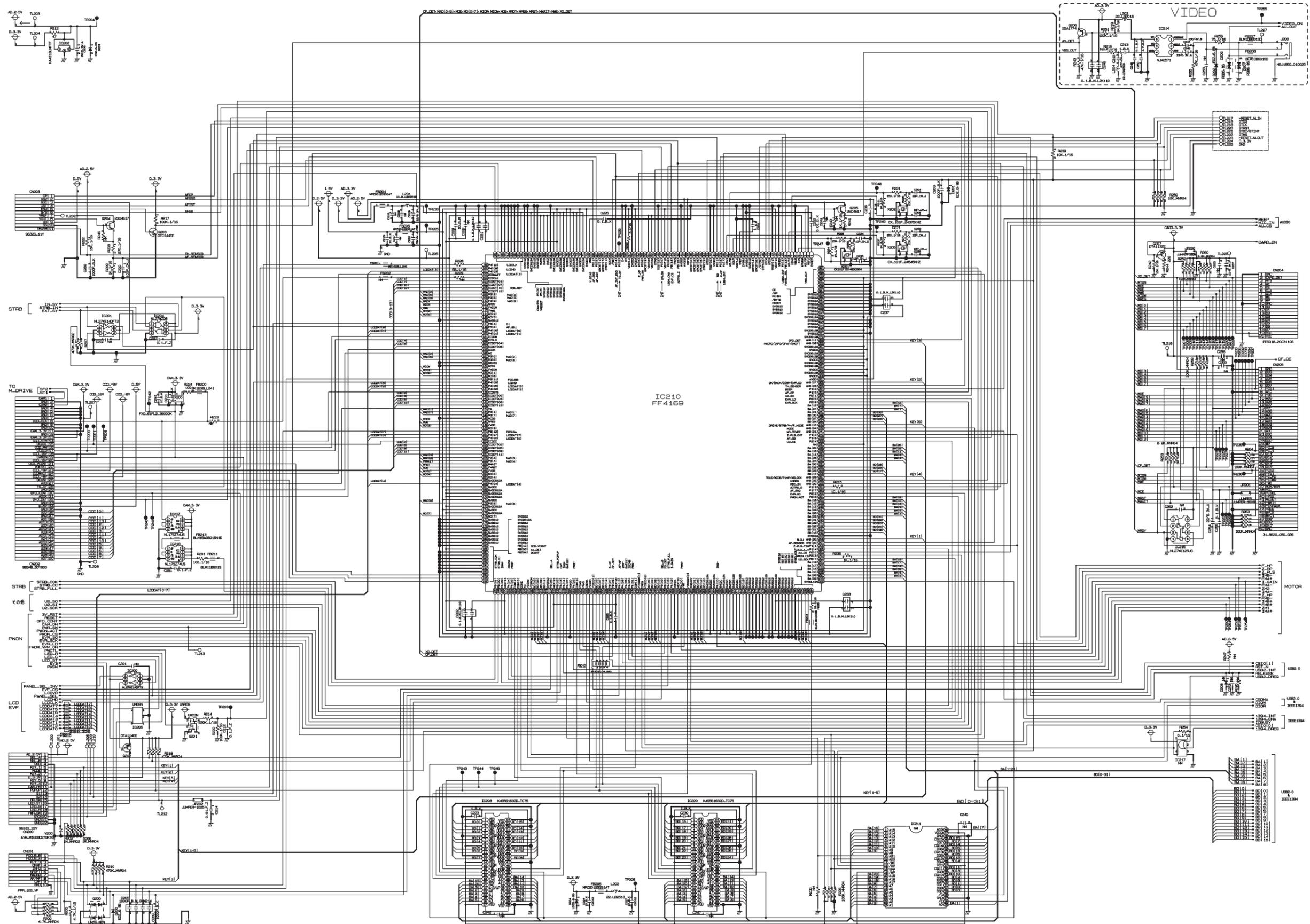
## 3-6. CCD BLOCK Schematic Diagram



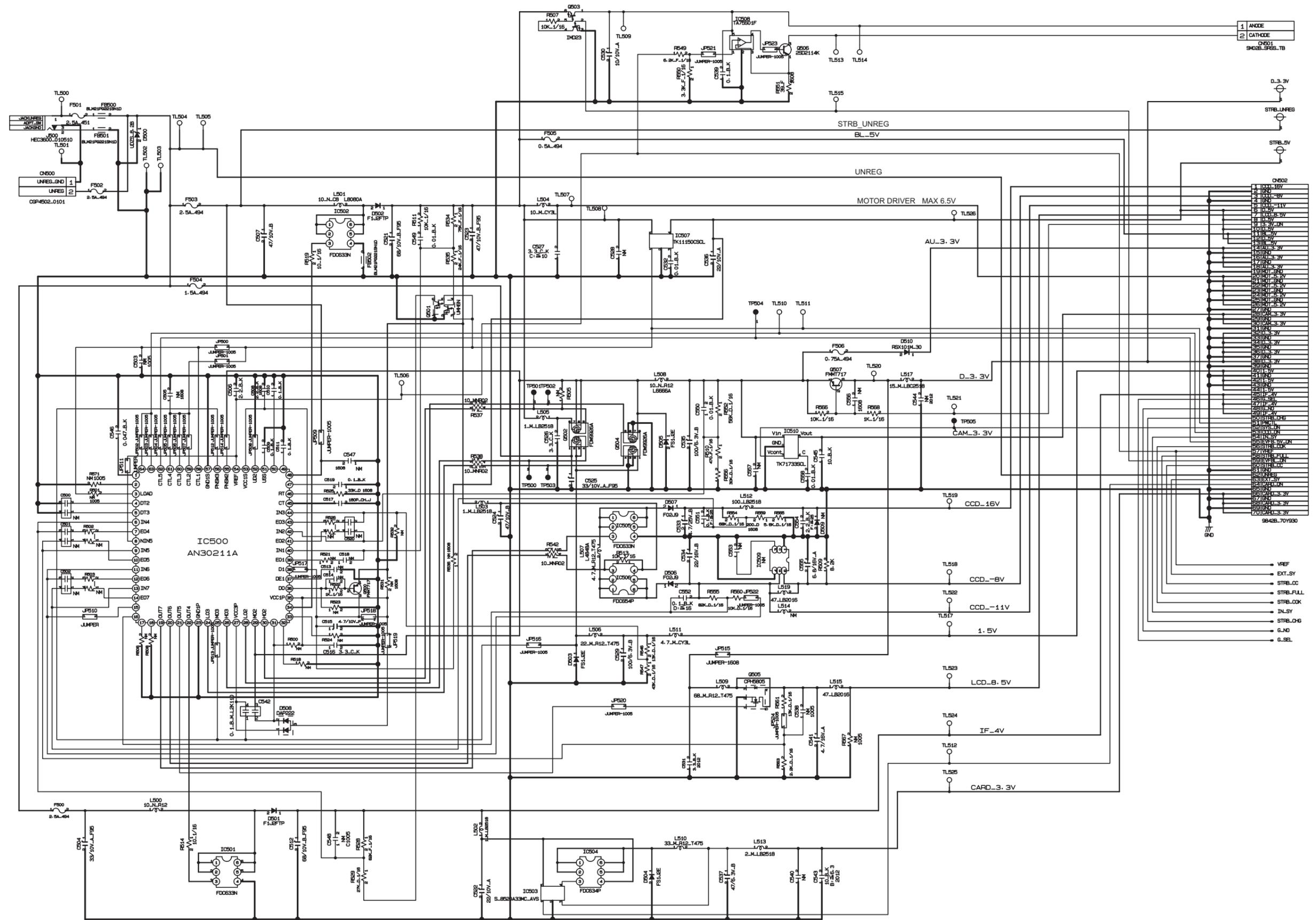
3-7. CAMERA BLOCK Schematic Diagram



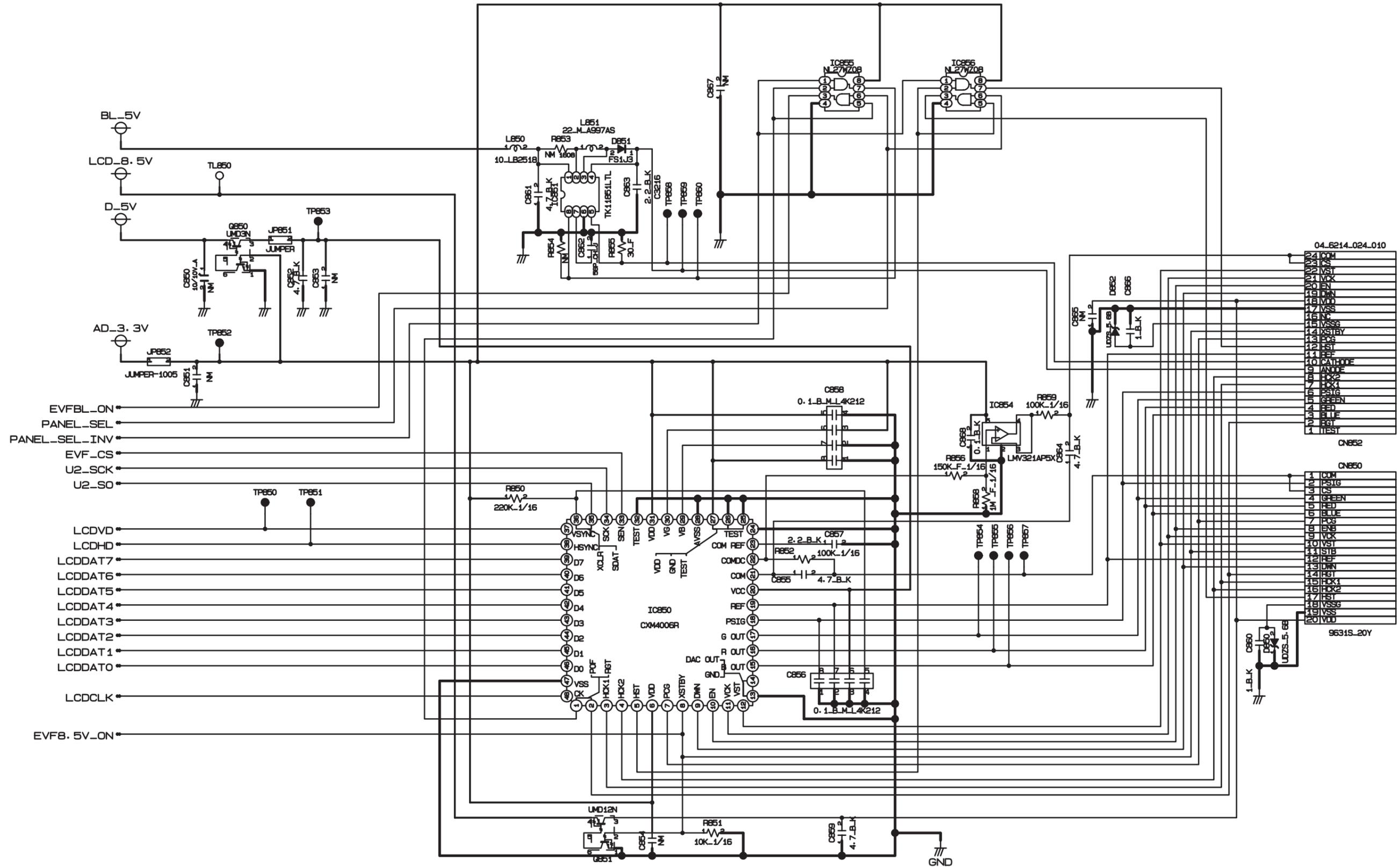
## 3-8. PROCESS BLOCK Schematic Diagram



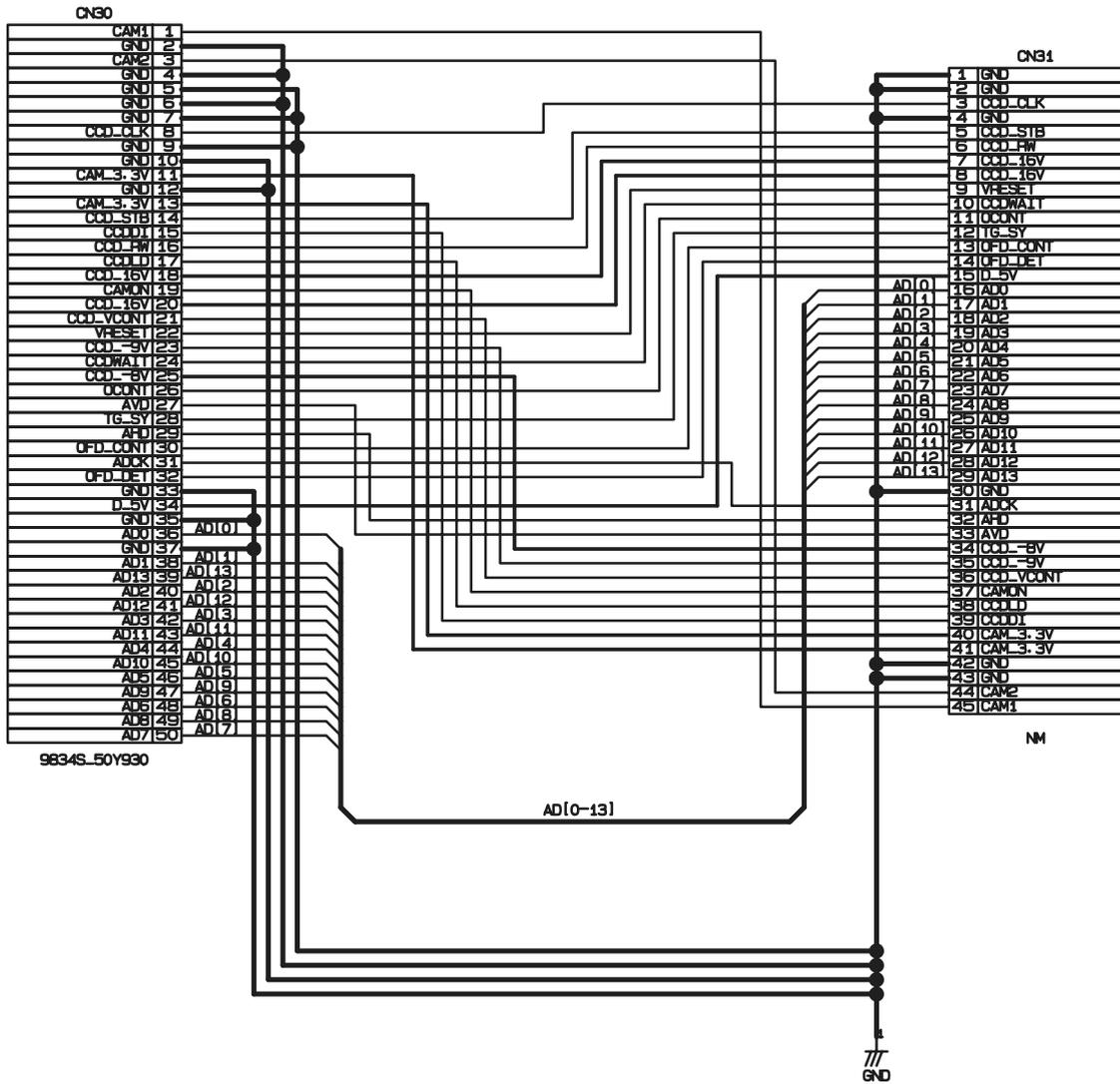
3-9. POWER BLOCK Schematic Diagram



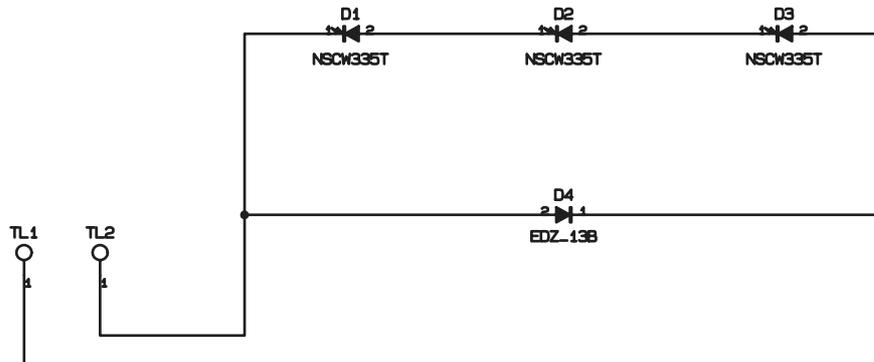
## 3-10. LCD-EVF BLOCK Schematic Diagram



## 3-11. MC-FPC BLOCK Schematic Diagram

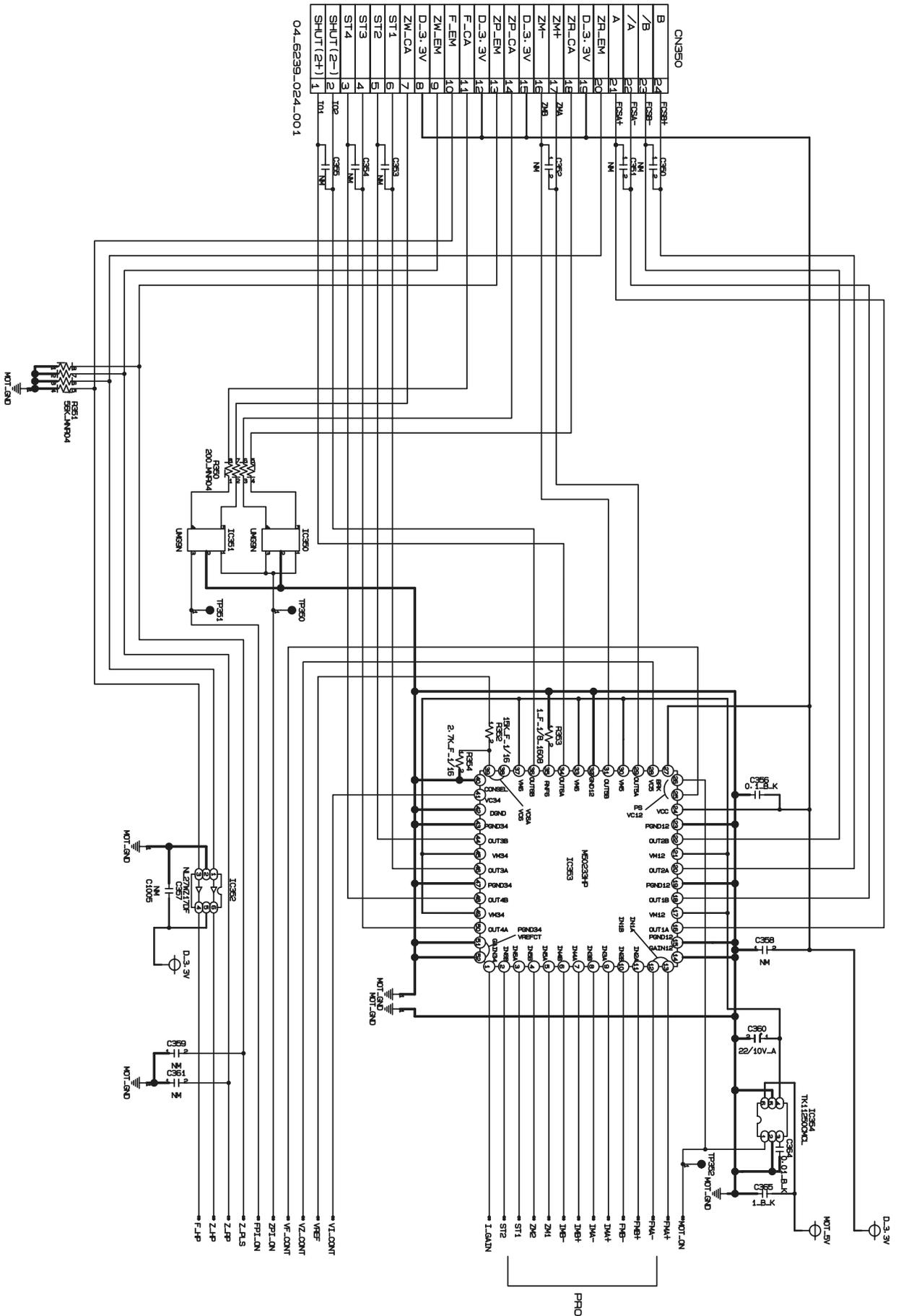


## 3-12. BL BLOCK Schematic Diagram

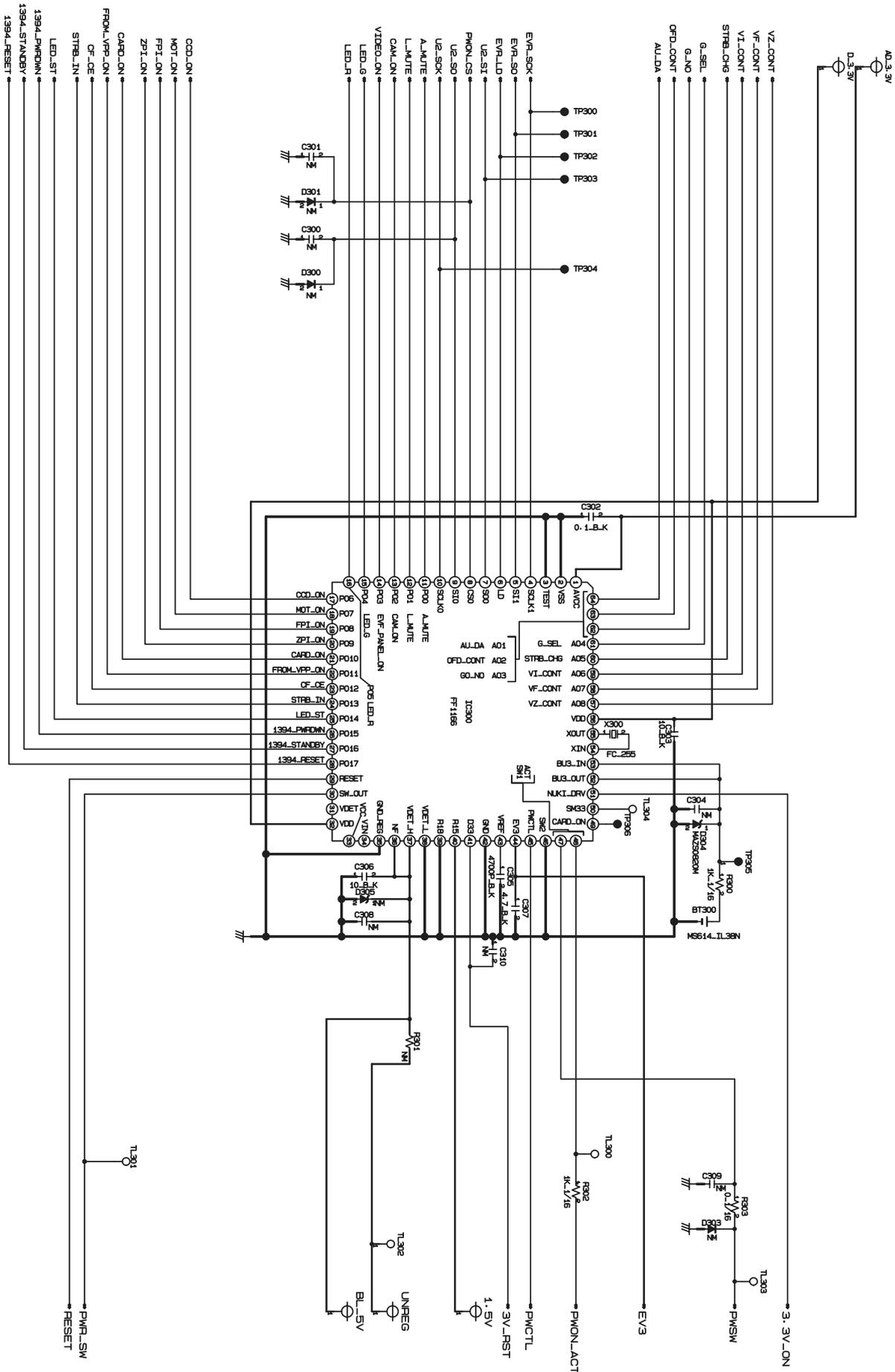




## 3-14. MOTOR BLOCK Schematic Diagram

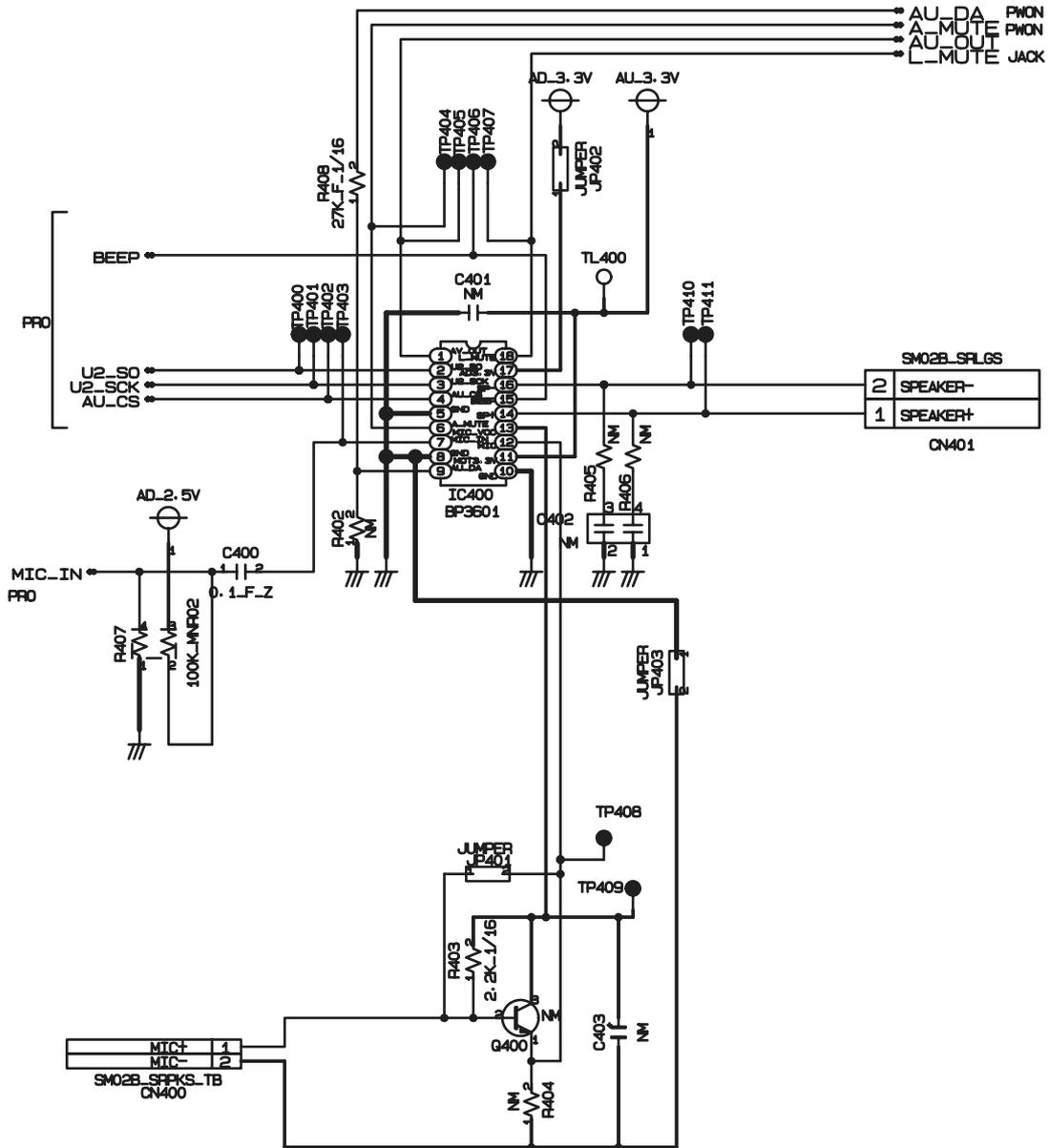


### 3-15. POWER ON BLOCK Schematic Diagram

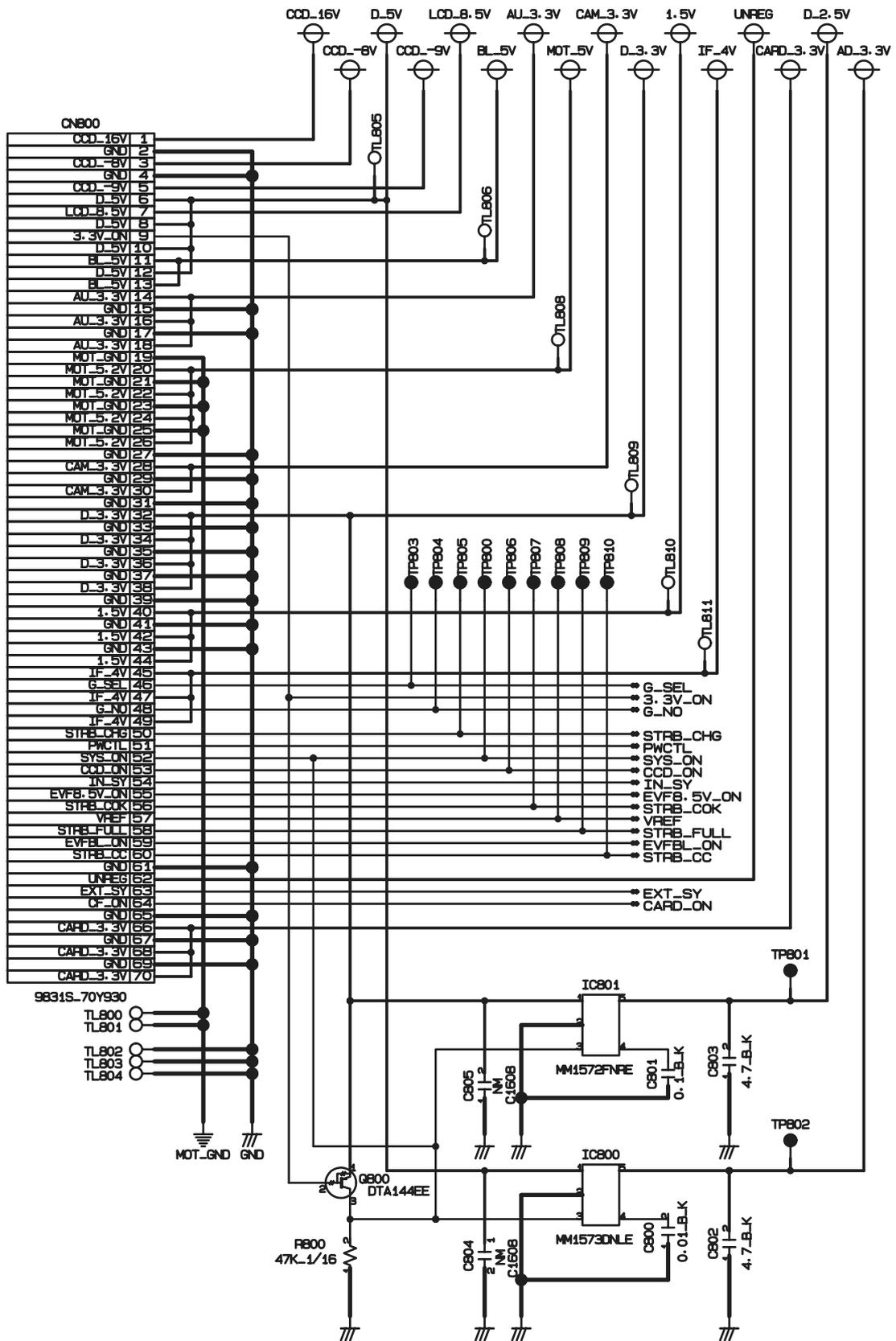




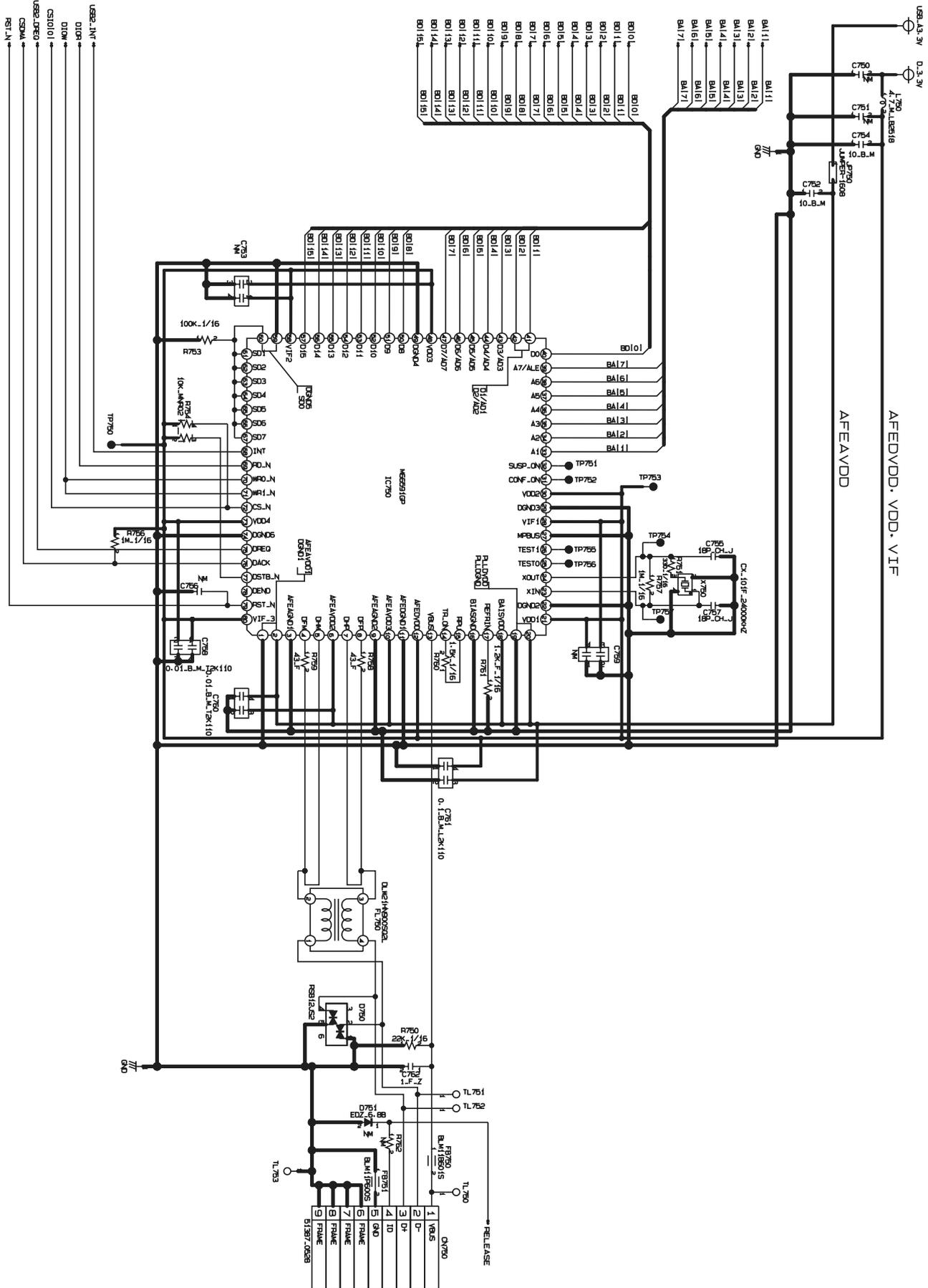
## 3-17. AUDIO BLOCK Schematic Diagram



## 3-18. MAIN I/F BLOCK Schematic Diagram



## 3-19. USB2.0 BLOCK Schematic Diagram

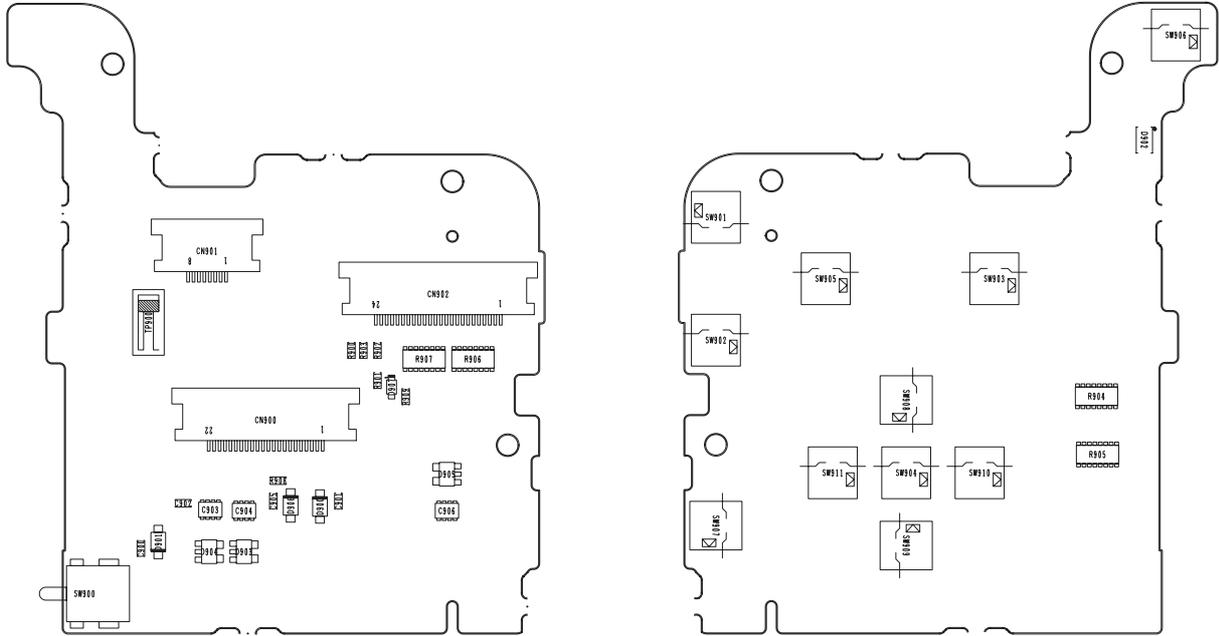




## 3-22. KEY PWB ASSY Component Locations

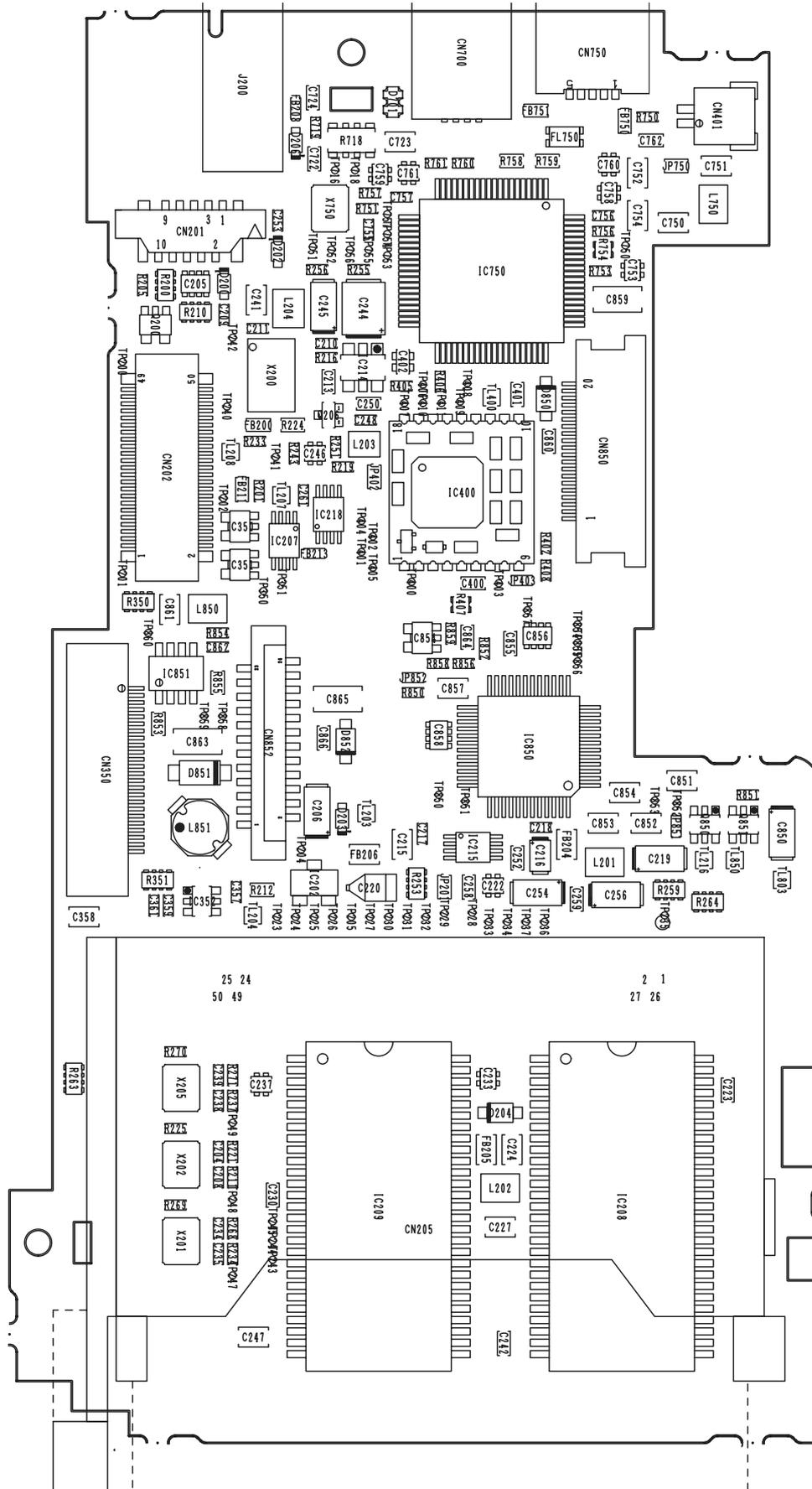
<Side A>

<Side B>

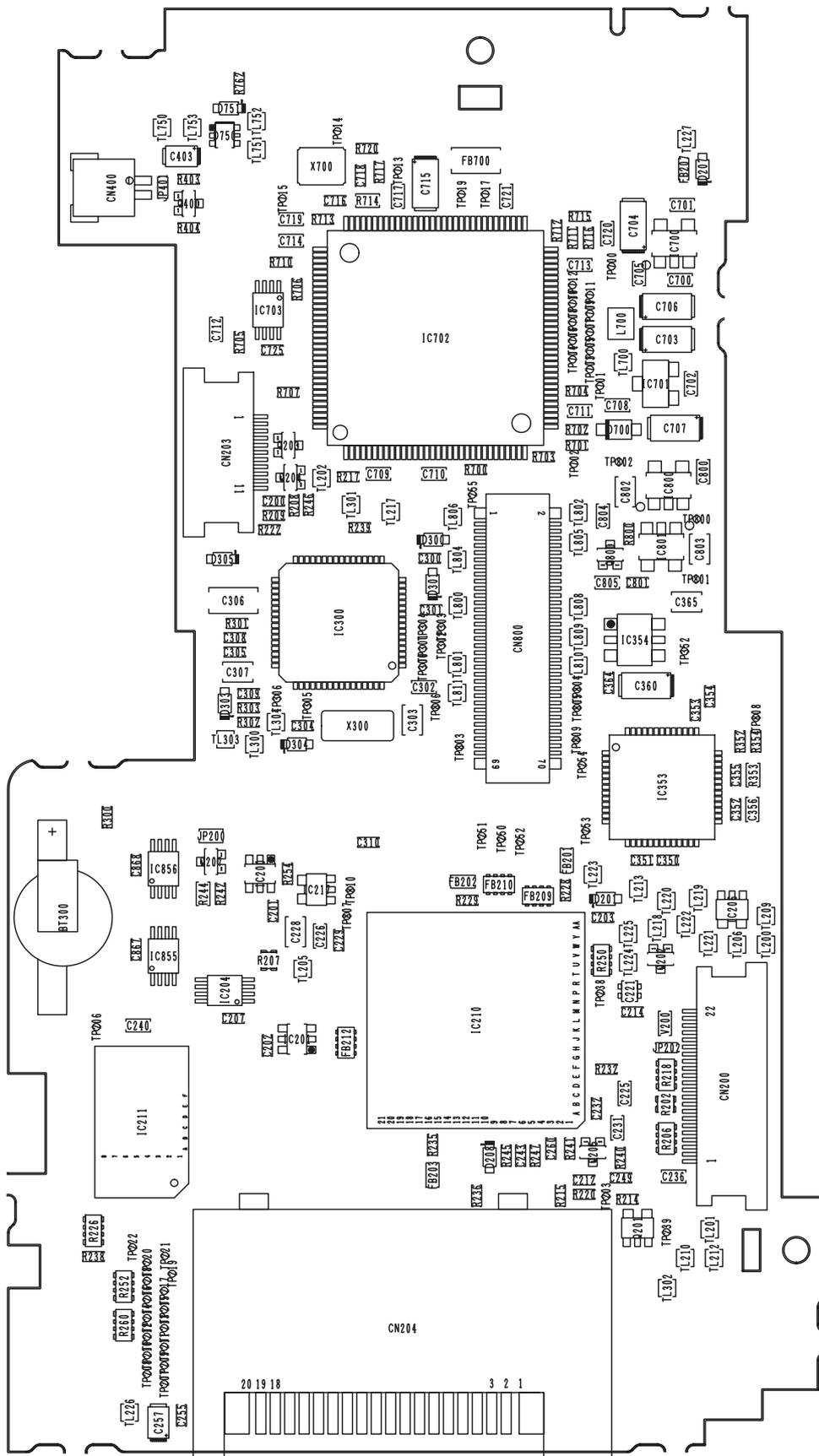


## 3-23. MAIN PWB ASSY Component Locations

<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 sensor	CCD data	CAMERA	AF/Zoom	Flash	Battery	VIDEO	End setting	Shading
LENS CONST	1	2*1	3	4	5	6	7	8*3	9*5
CAM PWB ASSY	1		2		3	4		5*3	6*5
MAIN PWB ASSY	1	2*2	3	4	5	6	7	8*3	9*5
DCST PWB ASSY	1				2	3	4	5*3	
KEY PWB ASSY							1	2*3	
AF sensor	1							2*3	
Flash unit	1				2			3*3	
Mode dial	1						2	3*3	
Disassembly and assembly*4	1							2*3	

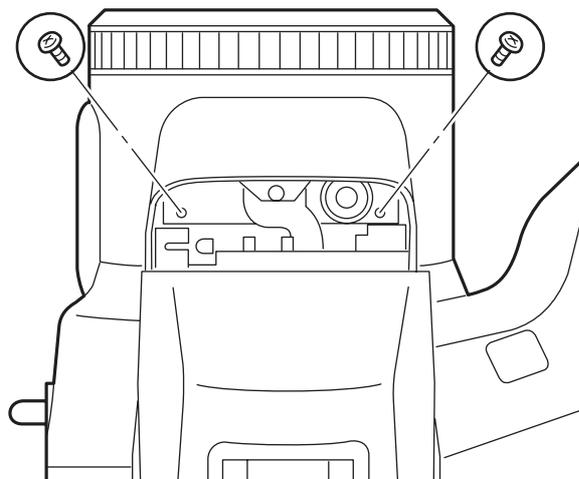
\*1 : Use the CCD data floppy disk supplied with the lens assembly.

\*2 : A new MAIN PWB assembly does not contain CCD data. When replacing the MAIN PWB assembly create a CCD data floppy disk. Refer to the 4-4-5.Preparing the CCD Defect Data (FD).  
CCD damage data and adjustment data are written to the FLASH\_ROM (IC216).

\*3 : The camera will remain in the Jig mode unless the End settings are entered. Always enter the End settings after adjustment is complete.

\*4 : Irrespective of whether or not components have been replaced, if the two screws (M1.7 x 5.5) holding the AF sensor in place are removed, the AF sensor will be displaced horizontally and vertically in relation to the lens, and AF Sensor Adjustment is therefore always required. The screws are located as shown below.

\*5 : Only adjust the shading when "FAIL" is displayed in the shading check.



### 4-2. Measuring Devices

Measuring device	Remarks
Regulated power supply	For adjustment.
Pattern box	PTB450
Digital voltmeter	For adjustment.
PC	For various adjustments and operation checks (PC-AT compatible, Windows 98/ME/2000/XP). *1 It is necessary to install Microsoft .NET Framework Ver1.1.*2
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.

\*1: Hardware recommendation: **CPU: Pentium4 2.4GHz** or better, **RAM: 512MB** or more.

It might make an error of the adjustment when the performance of PC is low.

\*2: Download it from the homepage of the Microsoft.

Microsoft .NET Framework Version 1.1

<http://www.microsoft.com/downloads/details.aspx?FamilyID=262d25e3-f589-4842-8157-034d1e7cf3a3&displaylang=ja>

WIN9X InstMsiA.exe Windows Installer 2.0 Redistributable for Windows 95, 98, and Me

<http://www.microsoft.com/downloads/details.aspx?displaylang=en&FamilyID=CEBBACD8-C094-4255-B702-DE3BB768148F>

WIN2K InstMsiW.exe Windows Installer 2.0 Redistributable for Windows NT 4.0 and 2000

<http://www.microsoft.com/downloads/details.aspx?displaylang=en&FamilyID=4B6140F9-2D36-4977-8FA1-6F8A0F5DCA8F>

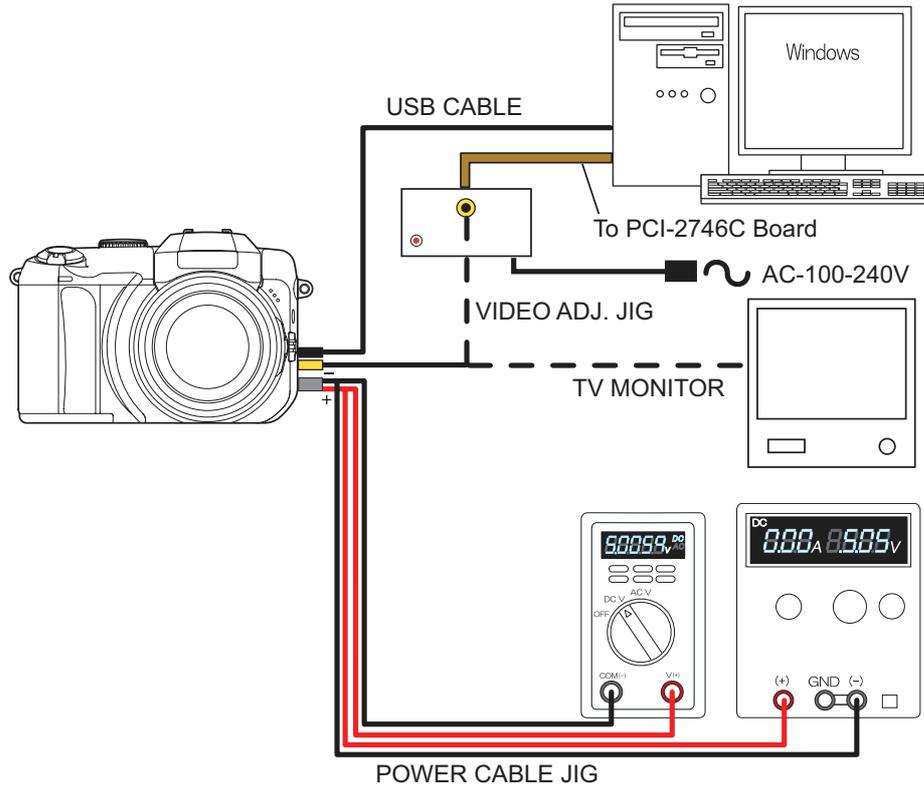
### 4-3. Jigs

Jig	Part number	Application
Filter LB140	ZJ00006-100	CAM adjustment (common to DS-7/20/30)
Siemens star chart	ZJ00251-100	AF adjustment (common to MX-700)
Conversion lens (f = 900mm)	ZJ00287-100	AF adjustment
Lens holder	ZJ00008-100	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)
AF sensor adjustment chart (700mm)	ZJ00542-100	AF sensor adjustment (common to FinePix S602Z)
AF sensor adjustment chart (1000mm)	ZJ00543-100	AF sensor adjustment (common to FinePix S602Z)
USB cable	FZ05241-100	PC adjustment
Power Cable jig	ZJ00580-100	General adjustments
<b>FinePix S7000 W adjustment software</b>	<b>ZJ00691-503</b>	<b>Dedicated software for general camera adjustment. *1</b>
<b>FinePix S7000 CCD Data</b>	<b>ZJ00690-100</b>	<b>Camera adjustment. *1</b>
AC adapter (AC-5V)	-----	For general adjustment.
DSC jig driver	ZJ00684-100	DSC jig driver setup. *1
Discharger	ZJ00581-100	Discharge for FLASH UNIT
Video Adjustment jig	<b>ZJ00650-100</b>	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 adjustment Common with the FinePix M603
LB140 filter holder kit for X-Y stage	ZJ00653-100	General adjustment
AF solid chart	ZJ00553-100	General adjustment Common with the FinePix S2Pro

\*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:  $6100 \pm 50K$  (with LB140 filter)  
 Measurement position : middle of pattern box  
 Measuring device : Minolta Color Meter III F or equivalent

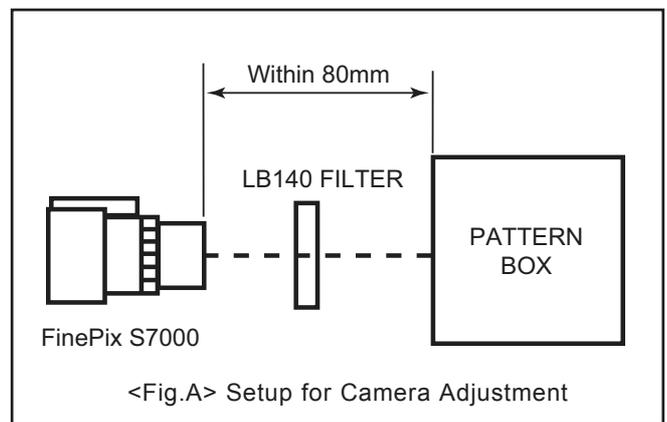
\*Color temperature measurement

- (1) Filter (LB140) and pattern box in direct contact.
- (2) Filter (LB140) and color meter in direct contact.
- (3) Adjust color temperature of pattern box to  $6100 \pm 50K$ .

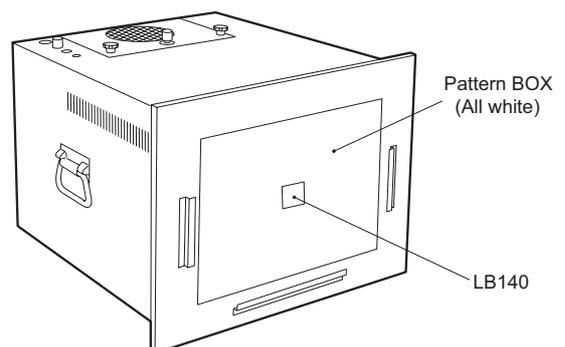
2. Luminance:  $160 \pm 5cd/m^2$  (with LB140 filter)  
 Measurement position : middle of pattern box  
 Measuring device : Minolta Luminance Meter LS-110 or equivalent

\*Luminance measurement

- (1) Filter (LB140) and pattern box in direct contact.
- (2) Filter (LB140) and Luminance meter in direct contact.
- (3) Adjust luminance of pattern box to  $160 \pm 5cd/m^2$ .



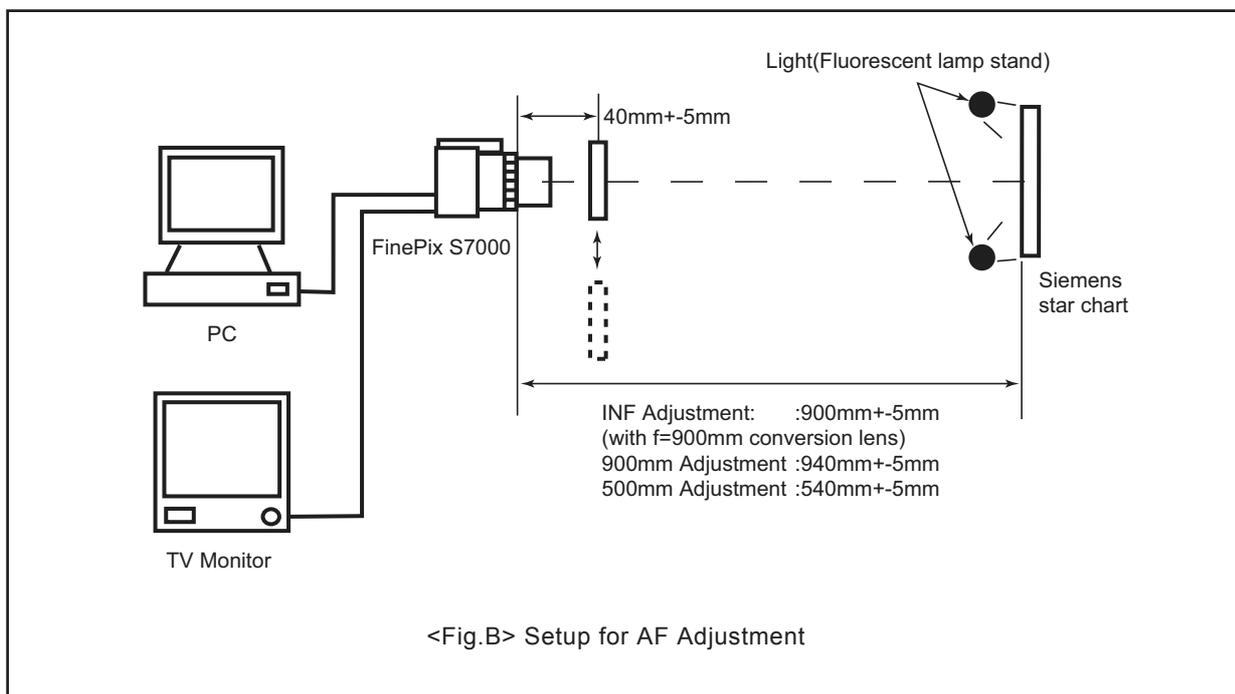
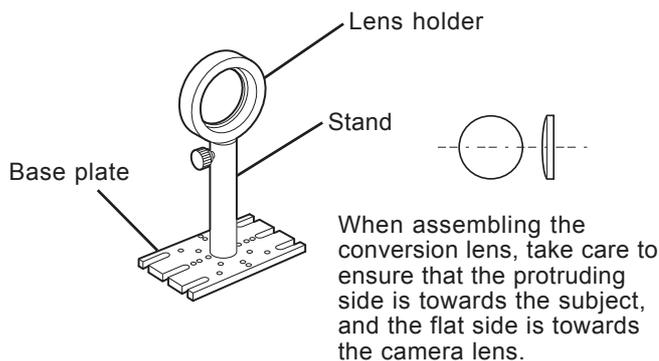
(\*1) Front face of LENS ASSY used as camera reference face.



# 4. Adjustment

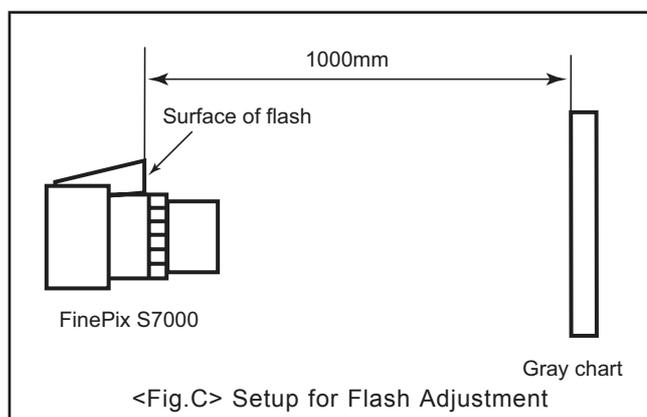
## (2) Setup for AF adjustment (Fig.B)

1. Set the distance between the conversion lens and the tip of the lens to  $900\text{mm} \pm 2\text{mm}$ .
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 11.0Ev.
3. Ensure that the conversion lens is concentric with the camera lens.



## (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  $18 \pm 0.7\%$ .

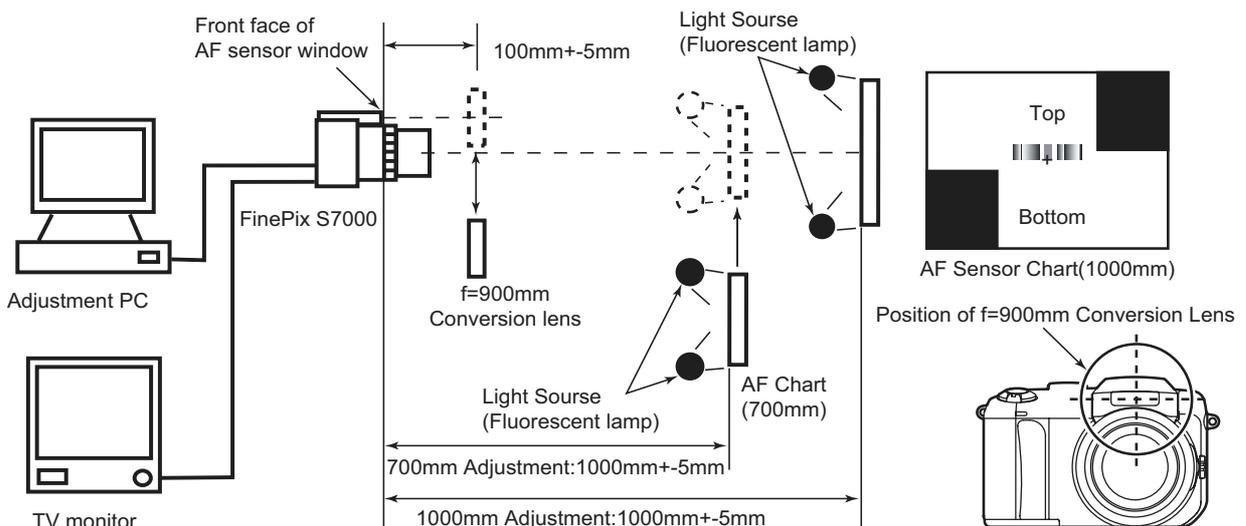


(4) Preparations for AF Sensor Adjustment

1. Prepare as follows using non-defective equipment.
2. Mount the camera on a tripod, and place the AF sensor chart (for 1000mm) at a distance of **1000mm** from the front face of the AF sensor window.
3. Set the camera power lever to the Photography mode, and display the through screen on the TV monitor.
4. Set the lens position to **TELE END** while holding the camera zoom button **[T]** down.
5. Adjust the camera position so that the AF target symbol (yellow) displayed on the TV monitor overlaps the '+' symbol (red) near the center of the AF sensor chart (for 1000mm).
6. Attach an OHP sheet to the TV monitor.
7. Place a mark in the center of the target mark displayed on the TV monitor.
8. Draw a circle on the OHP sheet with the marked point as the center.  
The size of the circle will differ from the TV monitor used. The circle sizes for the various TV monitors are as follows.  
**14" to 16" : 5mm radius**  
**17" to 19" : 6mm radius**  
**20" to 21" : 7mm radius**
9. This completes preparations for AF Sensor Adjustment.

(5) Environmental Settings for AF Sensor Adjustment

1. Set up the conversion lens (f=900 mm) and the two types of AF sensor chart as shown below.
2. Illuminate the AF sensor chart (1000mm) using one or two light sources. Adjustment is impossible if the illumination does not match.  
The distance between the light sources and the AF sensor chart must be approximately 5cm.  
**AF sensor chart reflective luminance : 8.0Ev to 10.0Ev**
3. Place the conversion lens concentric with the front face of the AF sensor window.
4. If the center of the conversion lens and the center of the AF sensor window are significantly misaligned, an error will occur during AF Sensor Adjustment, and adjustment will become impossible.



### 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>

DSC jig driver(ZJ00684-100.ZIP) is downloaded from Web server (<http://fujifilm-di.intranets.com/>).

#### <Step 2>

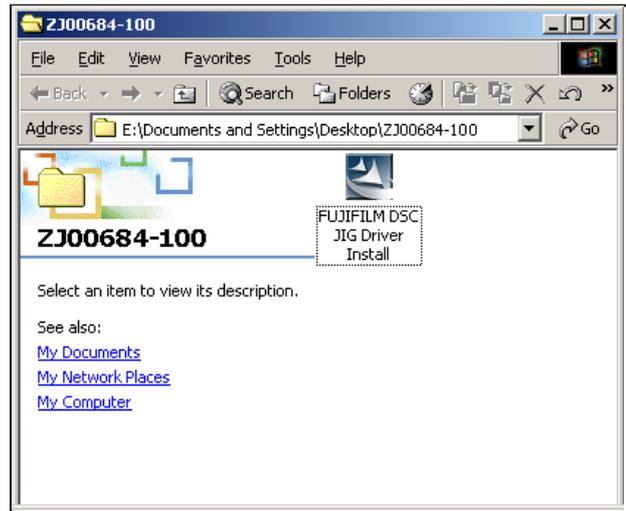
Extract the downloaded compression software

#### <Step 3>

Double-click setup.exe in the folder of extracted ZJ00684-100 and install Fuji FILM DSC Jig Driver as follows.

#### <Step 4>

Install the software in [C:\ProgramFiles\Fjig] according to the instructions on the PC's screen.



<Fig.D>

### 4-7. Installing and Starting the Adjustment Software

#### 4-7-1. Adjustment software setup

The PC adjustment software are in a specified Web server, and both of these are the compression of ZIP form files.

Therefore, after downloading these compression files from the Web server, the extraction of the file is necessary.

In the extraction software, if the extraction of the ZIP form can be done, any software is OK.

(Please prepare one of the extraction software.)

The extraction and the preservation method of the PC adjustment software and the firmware are described to the following.

- \* The PC adjustment soft extraction and preservation method

#### <Step1>

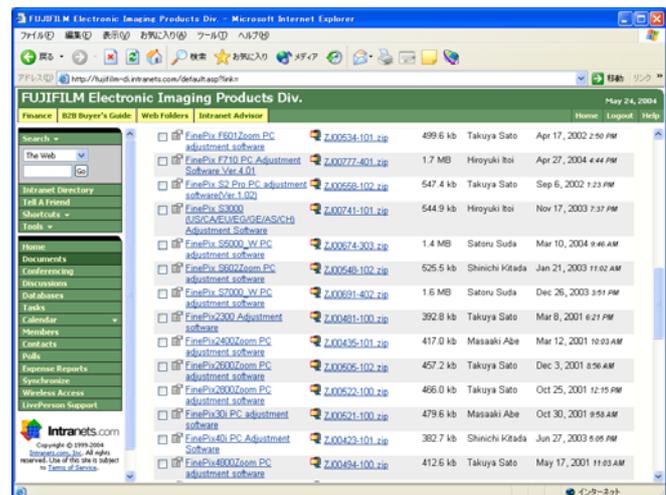
Download compressed PC adjustment software (ZJ00691-502.ZIP) from Web server (<http://fujifilm-di.intranets.com/>).<Fig.E>

#### <Step2>

Extract the downloaded compression software.

(Note)

- \* Specify the preservation drive for C drive if it is extraction software which can specify the preservation drive.
- \* Similarly, extract without making a new folder if it is extraction software which can be extracted without making a new folder.
- \* Extract simply if the extraction software which you have cannot specify the drive specification and the folder making.



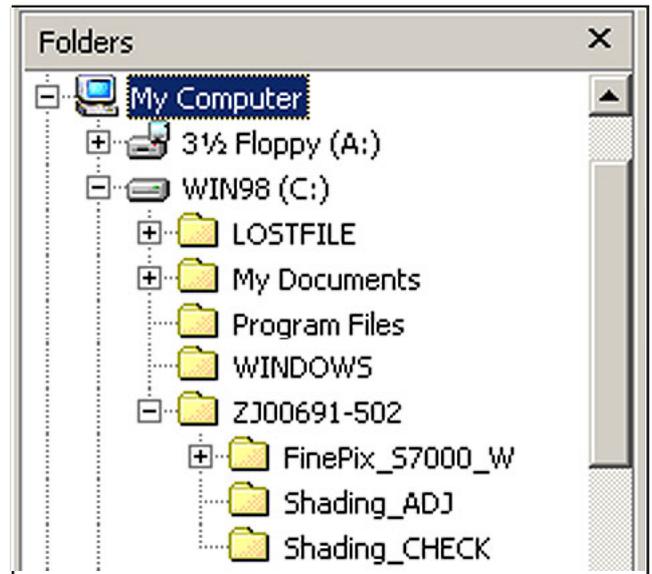
<Fig.E>

<Step3>

The folder named ZJ00691-502 can be made by extracting without specifying anything. <Fig. F>

The following folders are stored in the extracted folder of ZJ00691-502.

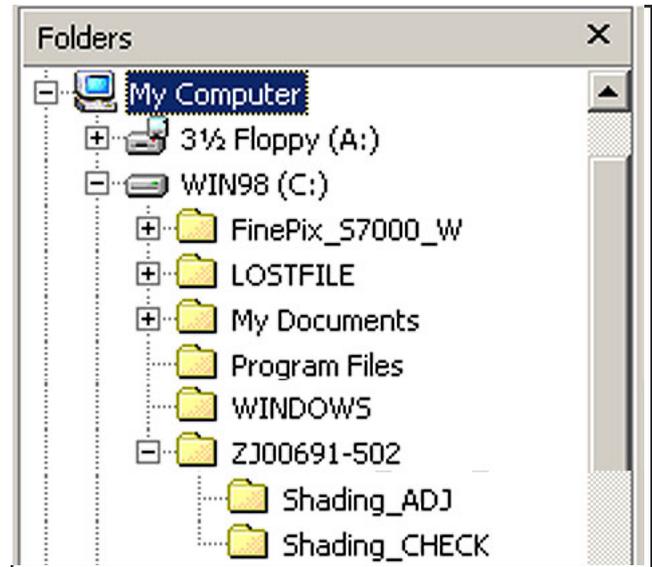
1. FinePix\_S7000\_W : (Use for general adjustment and shading adjustment.)
2. Shading\_CHECK : Use for shading inspection software installation.
3. Shading\_ADJ : Use for shading adjustment software installation.



<Fig. F>

<Step4>

Copy the folder named FinePix\_S7000\_W in this folder in C drive.<Fig. G>



<Fig. G>

**(Caution)[Important]**

- (a) PC adjustment software can not start when there is folder of FinePix\_S7000\_W in folder named ZJ00691-502.(Fig. 4)  
Please preserve the folder of FinePix\_S7000\_W right under C drive.(Fig. 4)
- (b) Please do not change the foldername named FinePix\_S7000\_W.  
PC adjustment software can not start when foldername is changed.

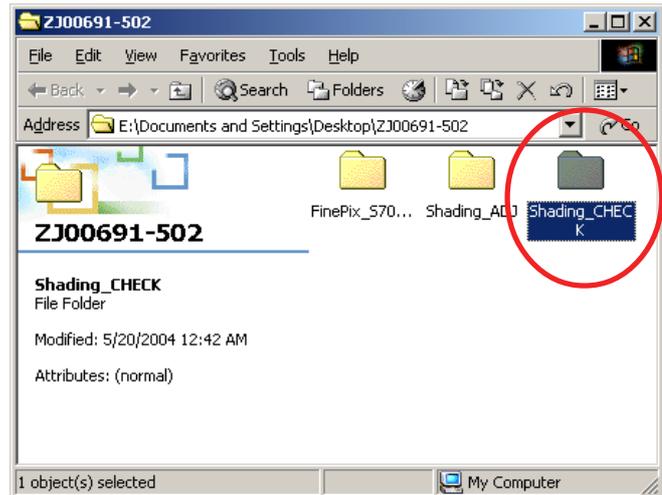
### 4-7-2. Shading Check Program Setup

<Step 1>

Open the "Shading\_CHECK" folder contained in the folder extracted in step 3 of section 4-7-1.

\* Install the shading check program (deltac.exe) before installing the shading adjustment program (deltac2.exe).

If the shading adjustment program (deltac2.exe) is installed first, an error occurs and the shading check program cannot be installed. If this happens, uninstall "deltac2.exe" and then install the software again.



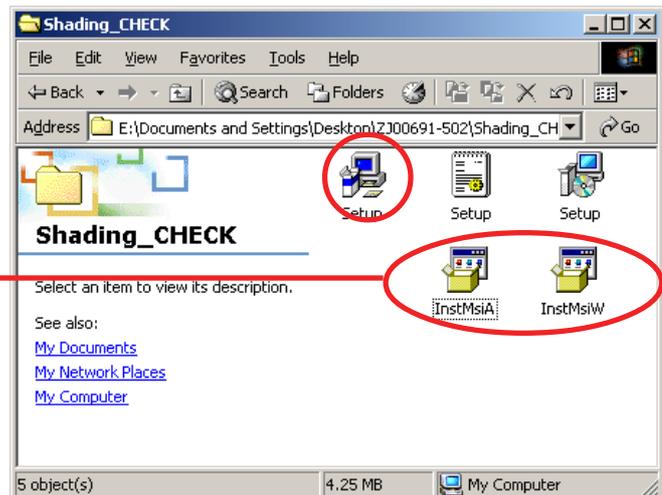
<Step 2>

(1) Double-click "Setup.Exe".

#### Note

If the software is installed on Windows 98, Me or 2000 and there is no "InstMsiA.Exe" or "InstMsiW.Exe" executable file, an error will result. At worst, it may no longer be possible to launch Windows.

Download an executable file from the Microsoft website and copy it into the "Shading\_CHECK" folder before beginning program setup.



-> The setup window opens.

<Step 3>

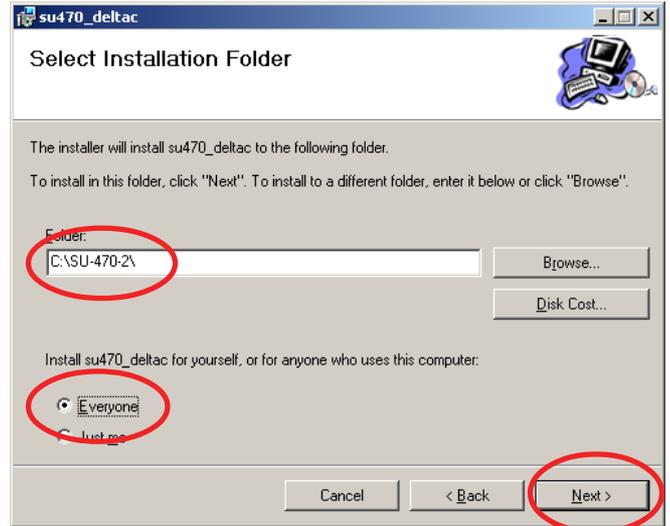
Click "Next" as instructed on screen.



-> The install folder selection window opens.

<Step 4>

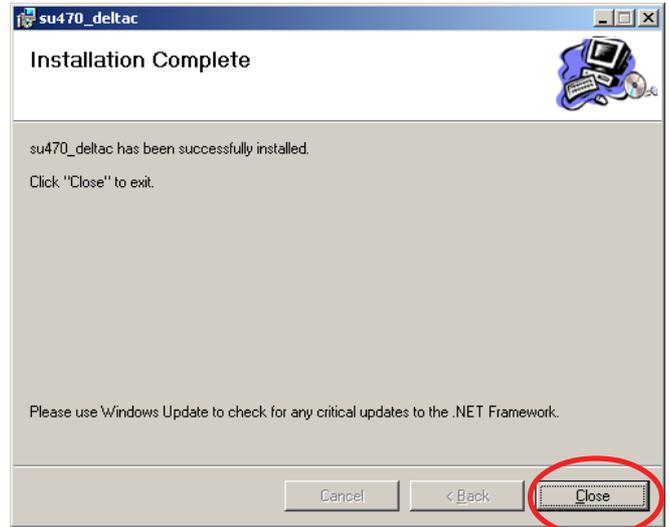
- (1) Check that "C:\su-470-2\" is selected as the install folder.
- (2) Select "Everyone". (Windows 2000 or XP only)
- (3) Click the "Next" button.



-> A confirmation message appears.

<Step 5>

Click the "Next" button.



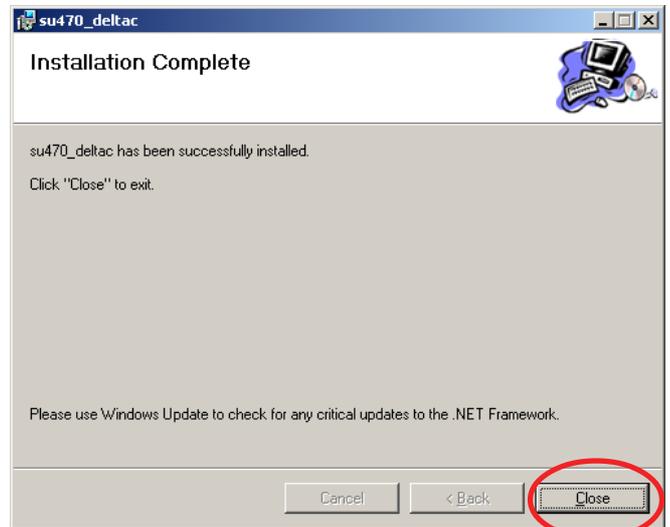
-> The installation completed window appears.

<Step 6>

Click the "Close" button.

Installation ends.

\* Once installation is completed, the program settings must be specified. Checking and adjustment will fail if the settings are not correctly specified.



# 4. Adjustment

<Step 7> (Check program settings)

Connect the digital camera to the PC in DSC mode and check that the PC recognizes the camera.

<Step 8>

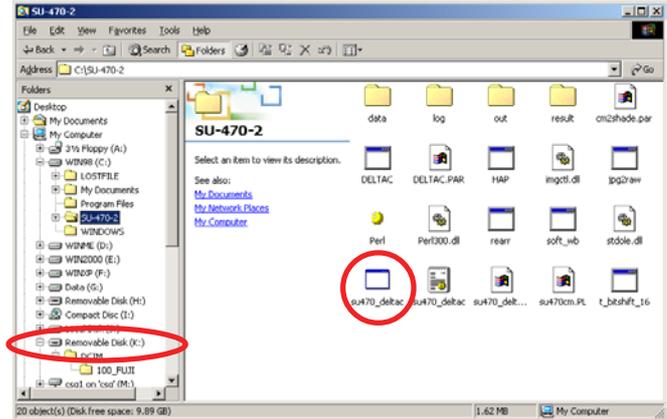
Check the name of the drive recognized as a removable disk.

- \* The drive name on the PC in the example is "K:". However, the name of the drive recognized as a removable disk may differ depending on the number and types of devices connected to the PC.

<Step 9>

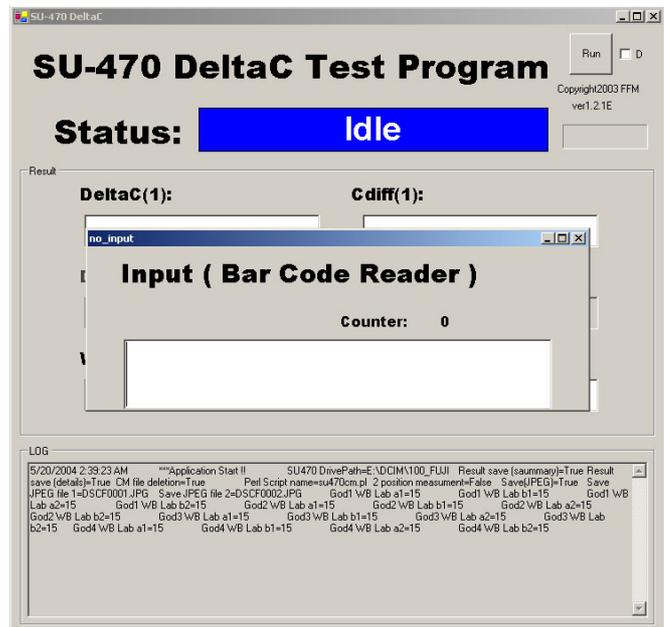
Double-click "deltac.exe" in the "C:\su-470-2\" folder to launch the check program.

-> The check program starts up.



<Step 10>

Hold down the "Alt" key and press the "F1" key.



-> The parameter setup window appears.

<Step 11>

Change the "Drive Path" to the drive name confirmed in step 8 (drive "K:" on the PC in the example).

- \* Whenever the connection setup is changed, always recheck the drive name and change the settings as required.

<Step 12>

Click the "OK" button to confirm the settings.

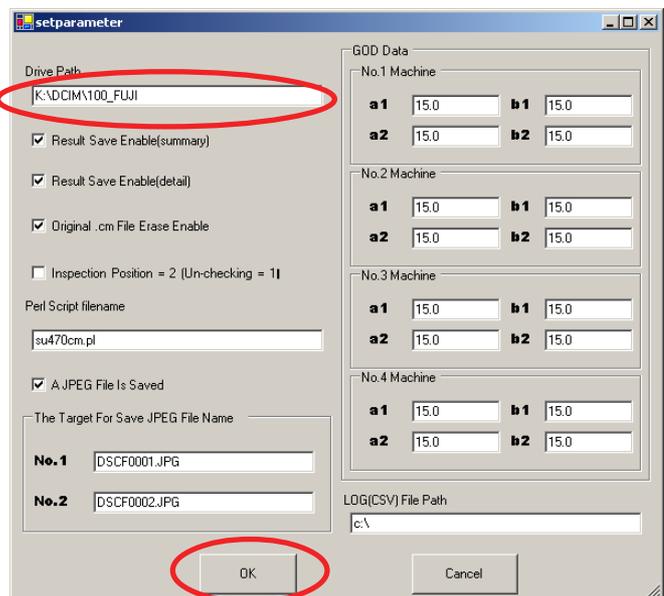
-> The "deltac Test Program" startup window reappears.

<Step 13>

Exit the check program.

Procedure for exiting deltac Test Program:

- (1) Press the "Esc" key to exit the "CCD number input" dialog box.
- (2) Click the close button.



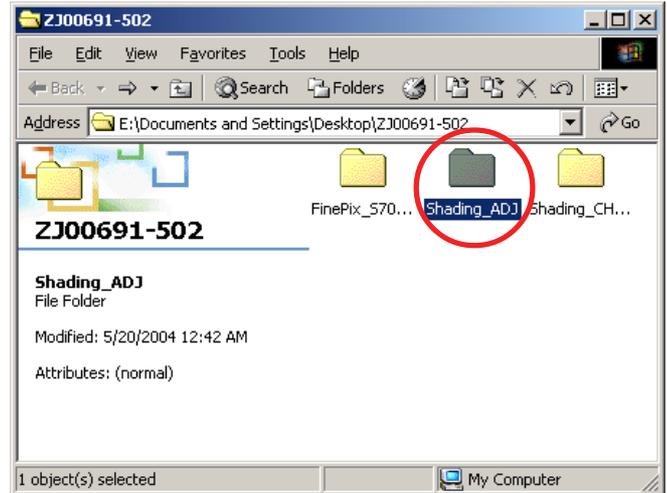
-> Installation ends.

### 4-7-3. Shading Adjustment Program Setup

First check that the procedure in section 4-7-2, "Shading Check Program Setup" has been completed.

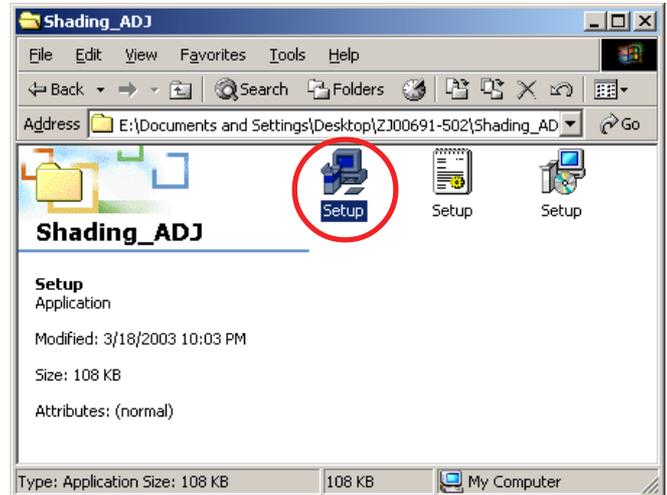
#### <Step 1>

Open the "Shading\_ADJ" folder contained in the folder expanded in step 3 of section 4-7-1.



#### <Step 2>

(1) Double-click "Setup.Exe".



-> The setup window opens.

#### <Step 3>

Click "Next" as instructed on screen.

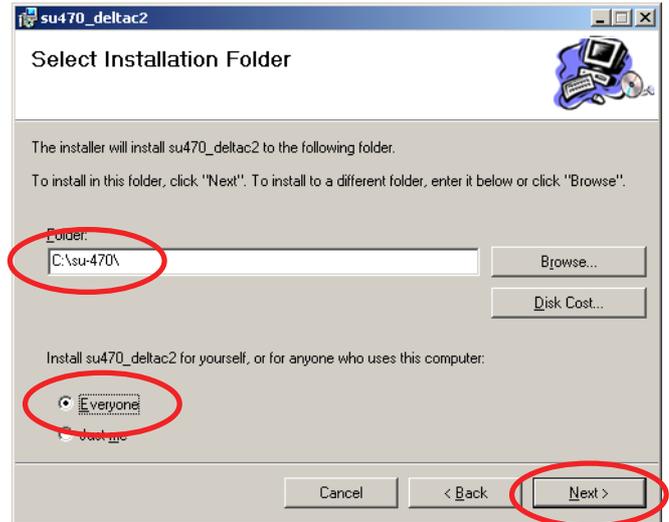


# 4. Adjustment

-> The install folder selection window opens.

<Step 4>

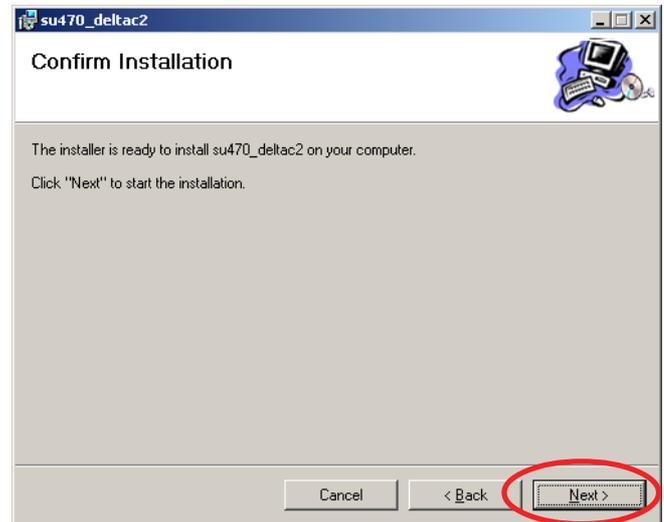
- (1) Check that "C:\su-470\" is selected as the install folder.
- (2) Select "Everyone". (Windows 2000 or XP only)
- (3) Click the "Next" button.



-> A confirmation message appears.

<Step 5>

Click the "Next" button.



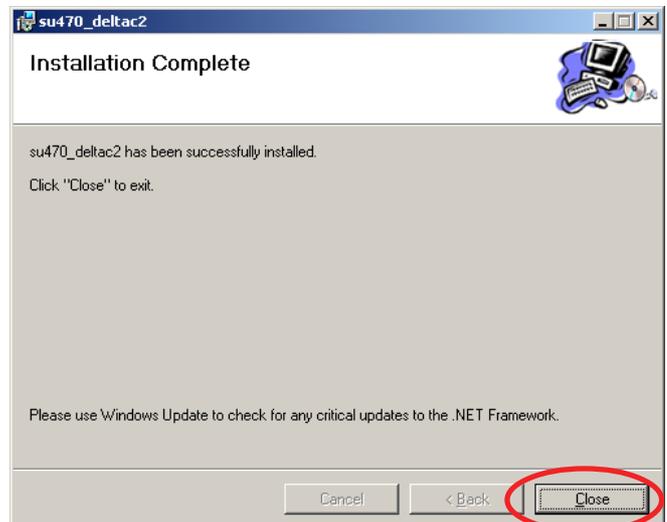
-> The installation completed window appears.

<Step 6>

Click the "Close" button.

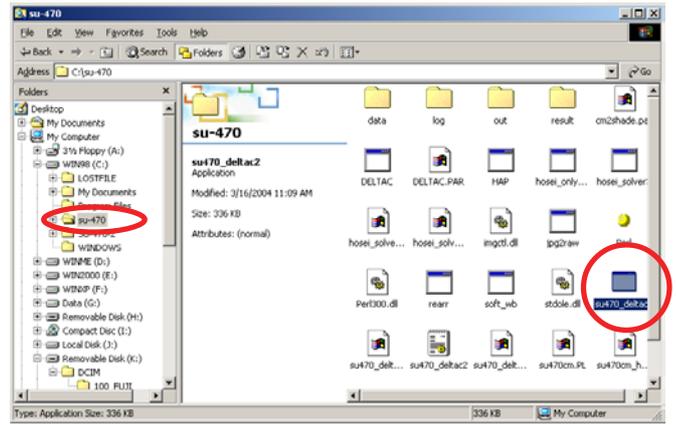
Installation ends.

- \* Once installation is completed, the program settings must be specified. Checking and adjustment will fail if the settings are not correctly specified.



<Step 7>

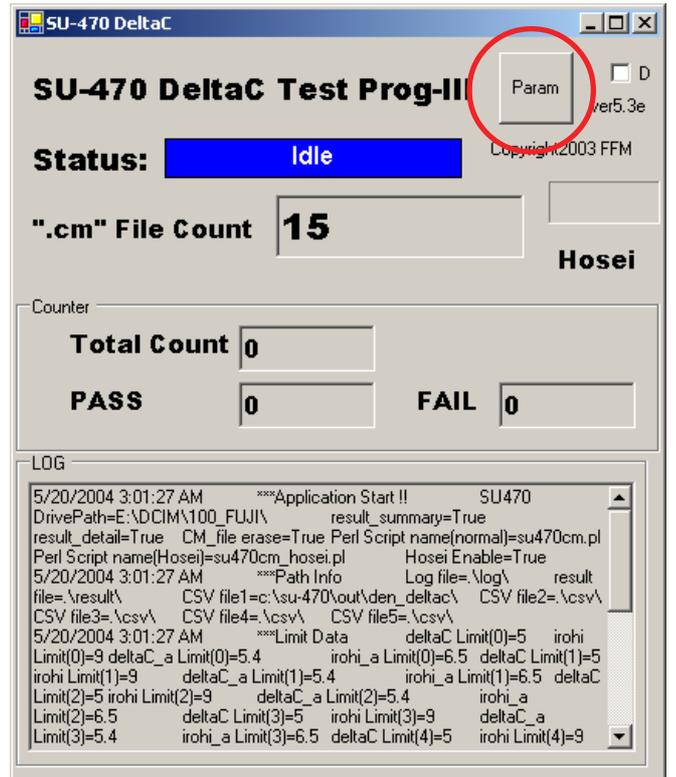
Double-click “deltac2.exe” in the “C:\su-470\” folder to launch the adjustment program.



-> The adjustment program starts up.

<Step 8>

Click the “Param” button.



-> The parameter setup window appears.

<Step 9>

Change the “Drive Path” to the drive name confirmed in step 8 in section 4-7-2 (drive “K:” on the PC in the example).

- \* Whenever the connection setup is changed, always recheck the drive name and change the settings as required.

<Step 10>

Click the “OK” button to confirm the settings.

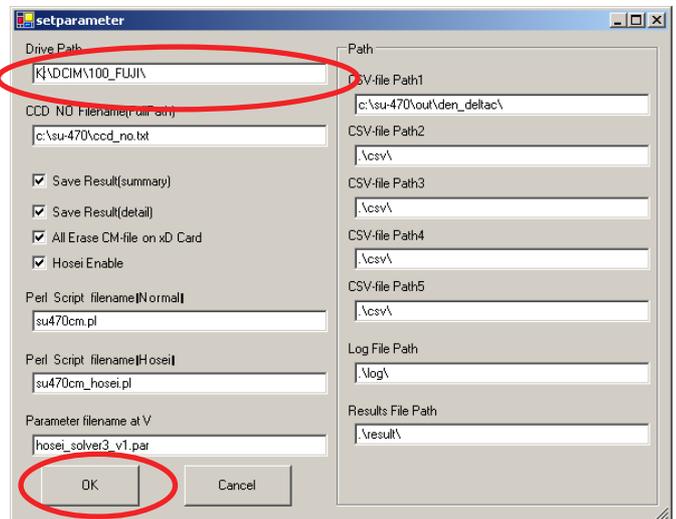
-> The “deltac Test Program III” startup window reappears.

<Step 11>

Exit the adjustment program.

Procedure for exiting deltac Test Program III:

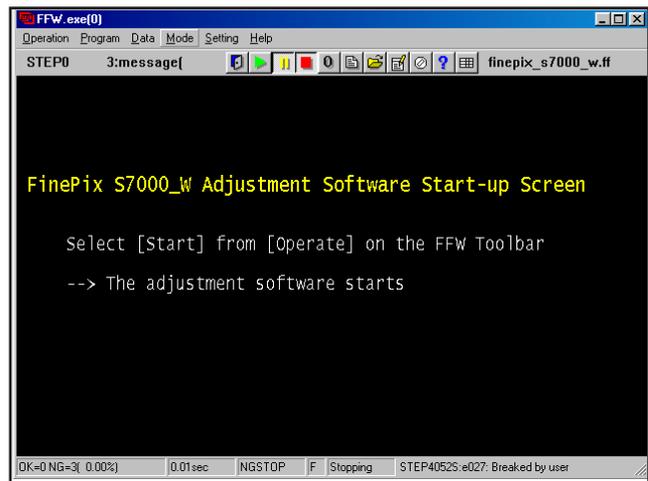
- (1) Click the close button.



-> Installation ends.

## 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\_S7000\_W.ff) under any circumstances. The software will not run if the user program is overwritten.



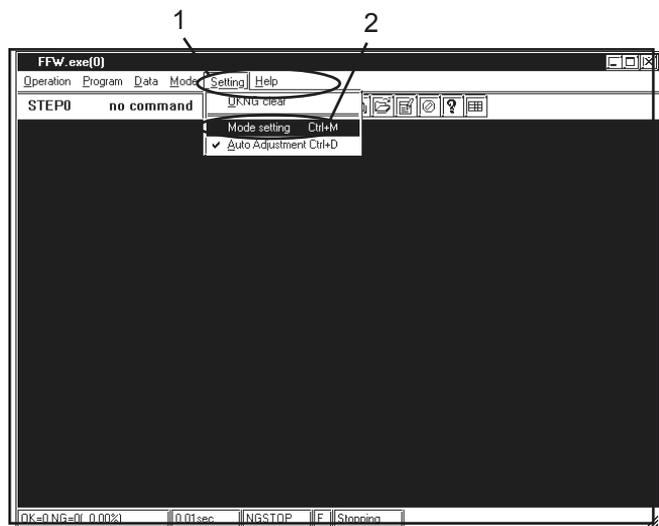
<Fig.H>

### <Step 1>

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

### <Step 2>

Click on [Setting] (Fig.I-1) on the [menu bar] on the screen.  
 Select [Mode setting] (Fig.I-2) from the pull-down menu.

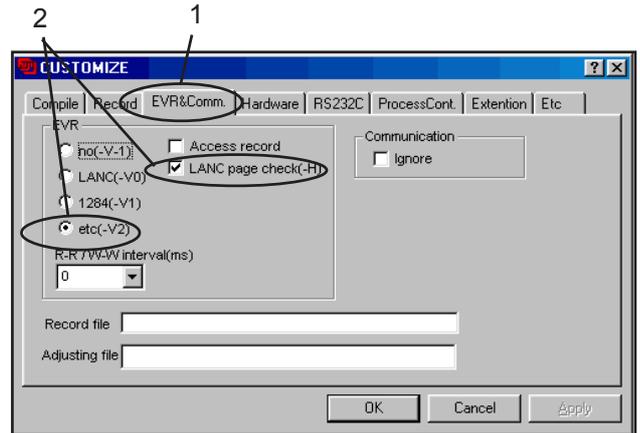


<Fig.I>

<Step 3>

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

Item	Details
etc(-V2)	Check
LANC Page	Check



<Fig.J>

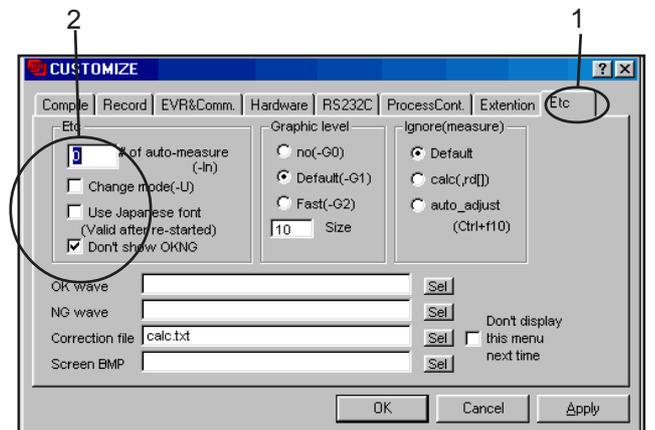
<Step 4>

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

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

(Note)

If don't check [Don't show OK NG] on the PC screen (Fig.K) , the PC screen displays [OK] if adjustment is OK, and [NG] if adjustment is NG (either setting is OK).



<Fig.K>

<Step 5>

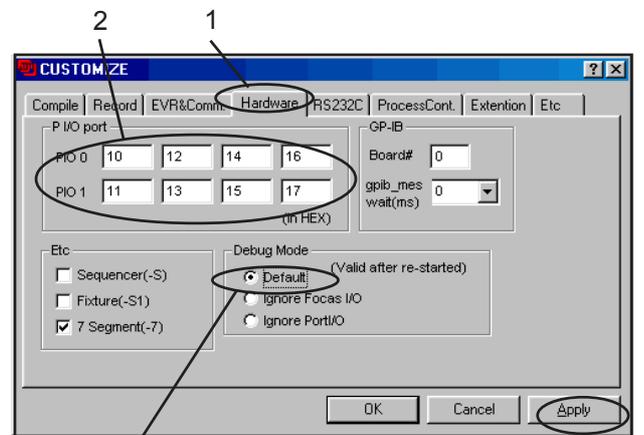
Select the [Hardware] menu on the [Customize] dialog screen (Fig.L-1).  
Input the data to each items as follows (Fig.L-2).

PI /port

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

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

Item	Details
Debug mode	Select [Default]



<Fig.L>

<Step 6>

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

No further setup is required once setup is applied.

## 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 S7000 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	Stop program if adjustment is NG.
	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\_S7000\_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.

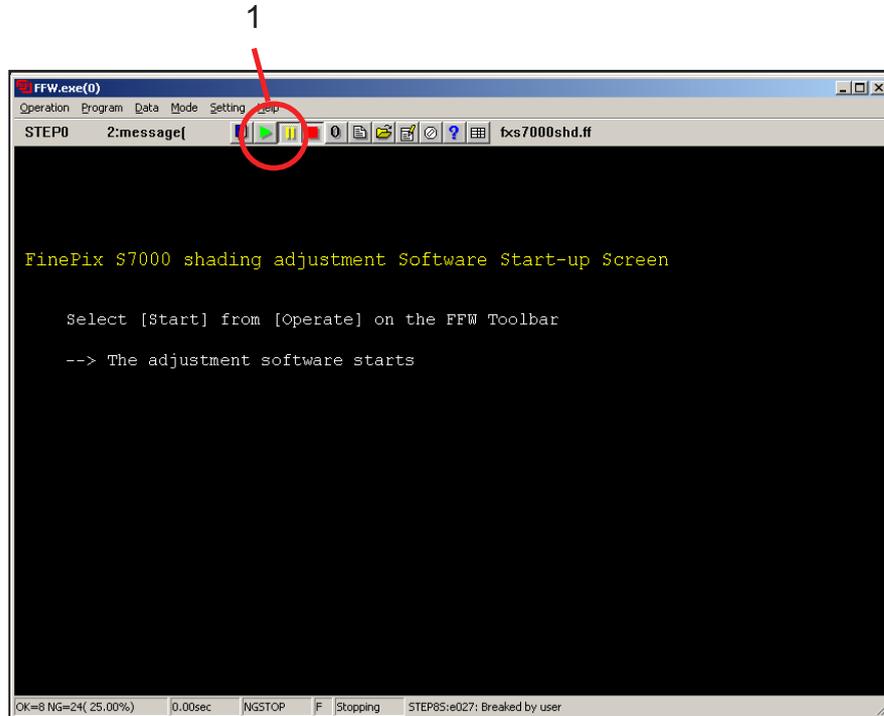


Fig.1

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

<Step 2>

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

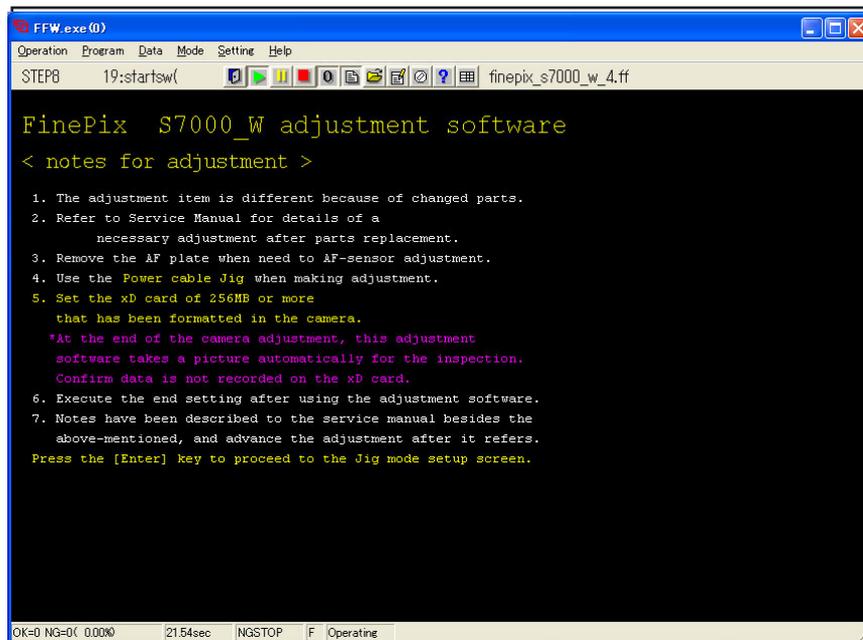


Fig.2

---> [Initial Screen (Fig.2)] appears.

<Step 3>

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

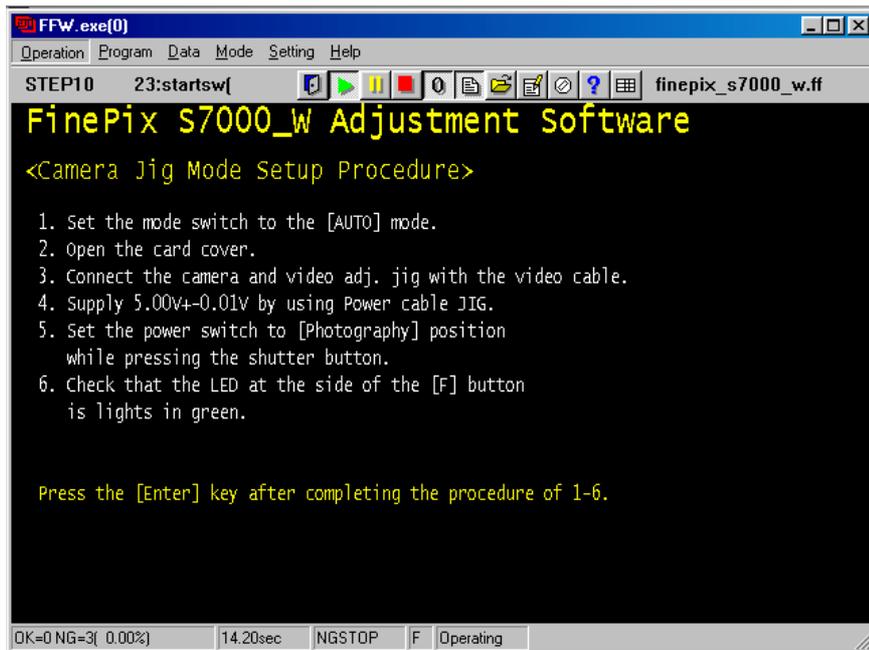


Fig.3

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

<Step 4>

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

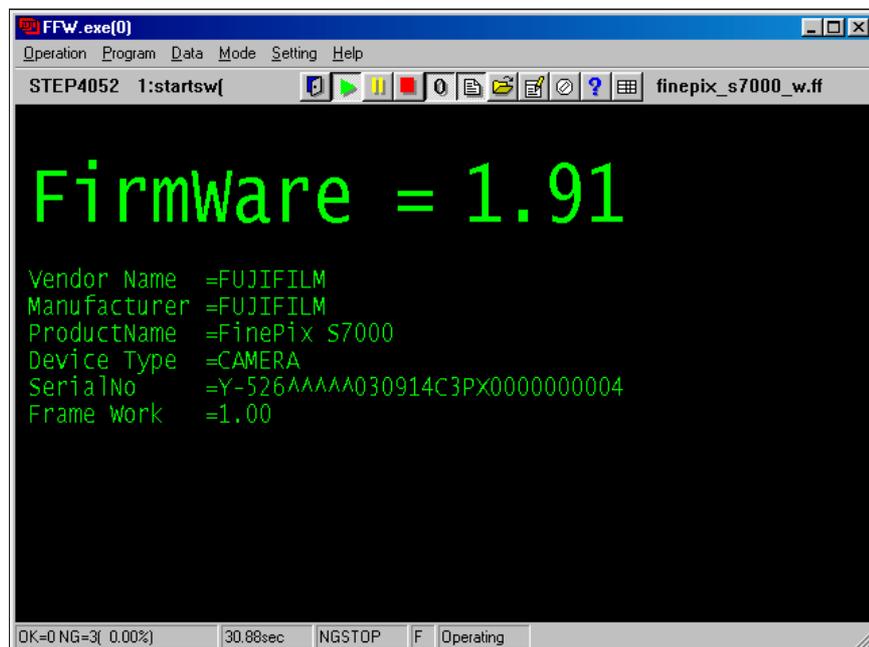


Fig.4

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

<Step 5>

Press the Enter key.

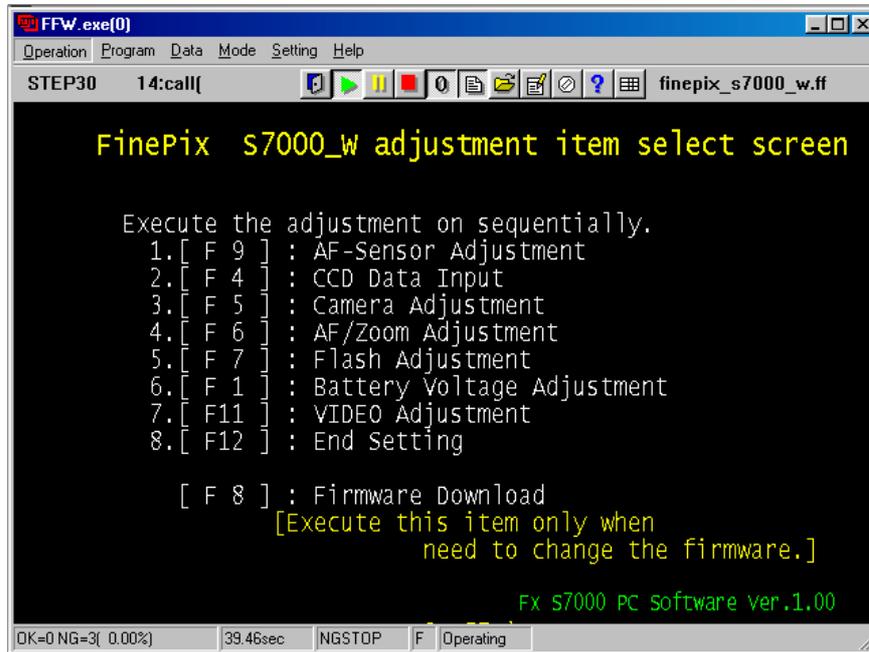


Fig.5

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

**\* Adjustment Items**

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

## 4-10.[F-9]: AF Sensor Adjustment

### Cautions During Adjustment

Irrespective of whether or not components have been replaced, the AF sensor must be adjusted if the two screws (M1.7 x 5.5) holding the AF sensor in place are removed.

As the accuracy of AF distance measurement with the AF sensor unit changes with temperature, this adjustment should be performed immediately after the camera power supply is switched ON.

Errors will occur, and adjustment will become impossible, if adjustment is performed after the internal temperature of the camera has increased to 35°C or more.

If an adjustment error is displayed when the 900mm conversion lens is used, switch camera power OFF, wait, and perform the adjustment again.

Purpose : Mechanical adjustment in the horizontal and vertical directions of the AF sensor (passive) in relation to the optical axis of the lens assembly.

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

<Step 1>

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

---> The [AF-Sensor adjustment Preparation Screen (Fig.6)] appears.

<Step 2>

When preparations are complete, press the Enter key.

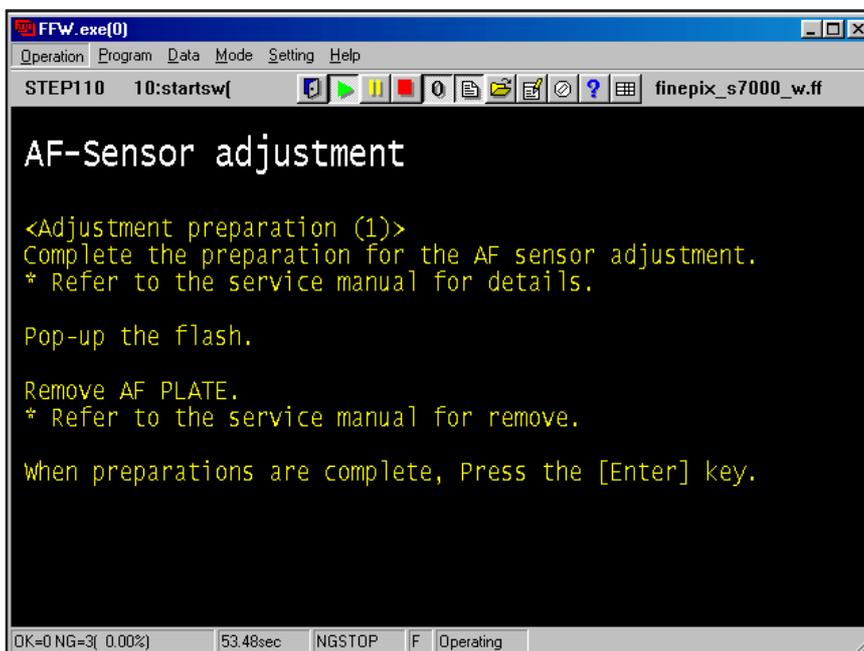


Fig.6

---> The [AF-Sensor adjustment Preparation Screen (Fig.7)] appears.  
 <Step 3>  
 When preparations are complete, press the Enter key.

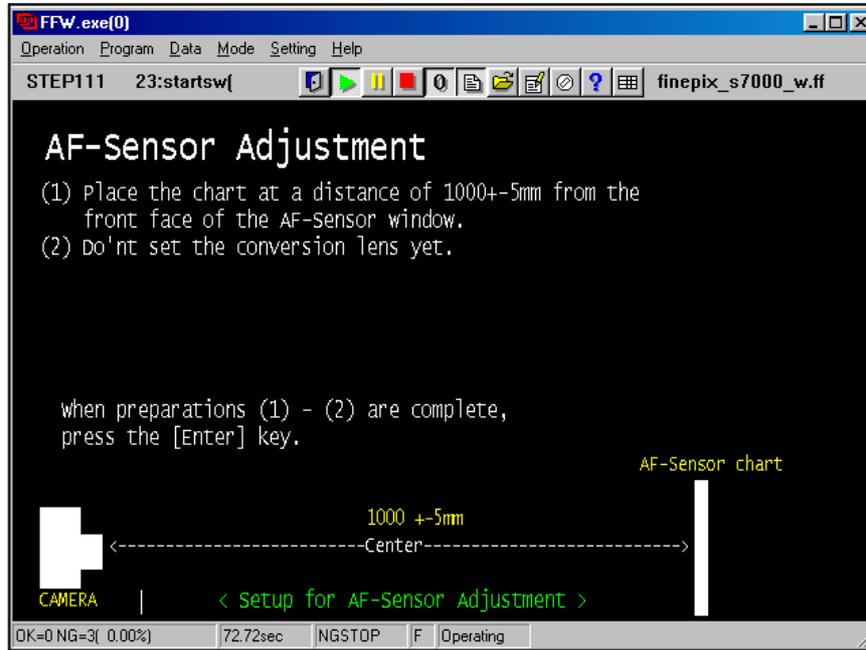


Fig.7

**Caution:**

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

---> The [AF-Sensor adjustment Preparation Screen (Fig.8)] appears.

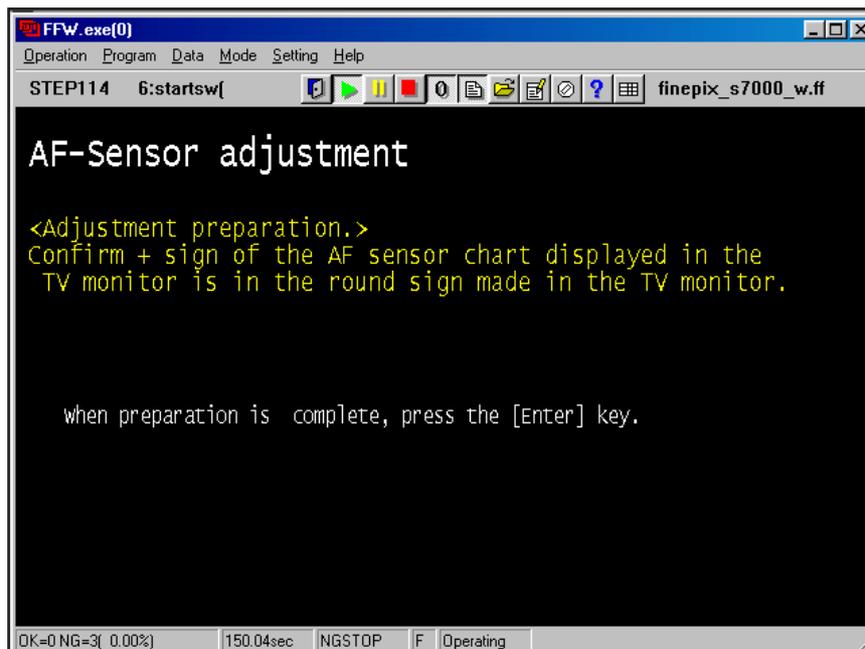
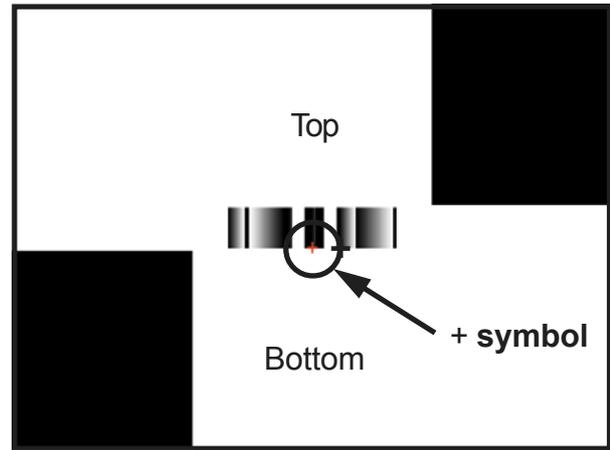


Fig.8

<Step 4>

Adjust the screen angle so that the '+' symbol (red) displayed on the TV monitor is within the circle.

When preparations are complete, press the Enter key.



AF Adjustment Chart (1000mm)

<Step 5>

---> The [AF-Sensor adjustment Screen (Fig.9)] appears.

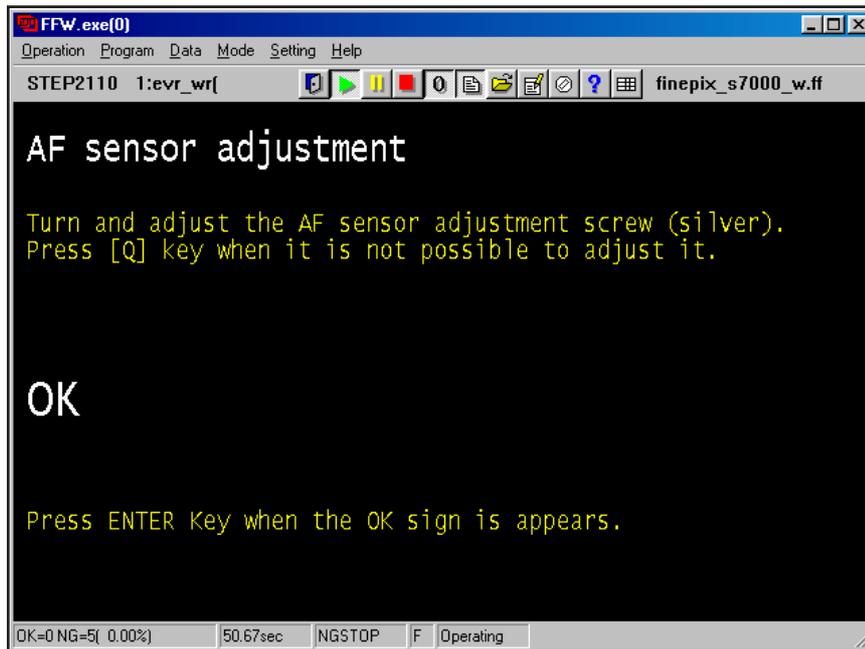


Fig.9

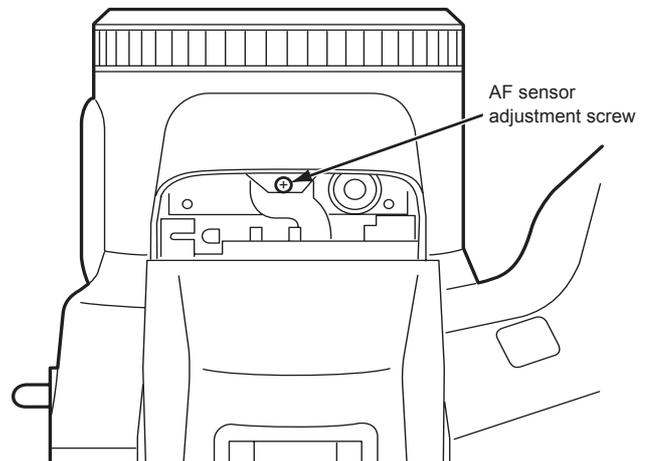
Adjust the AF sensor by turning the AF Sensor Adjustment screw (silver colored) with a + screwdriver in accordance with the instructions from the adjustment software.

**Turn the adjustment screw while viewing the WAVE No.0 screen to increase the speed of adjustment.**

When [Adjustment OK!] appears on the screen, press the [Enter] key on the PC and make adjustment preparations (900 mm) in accordance with the instructions from the adjustment software.



WAVE No.0 screen



Position of AF Sensor Adjustment Screw

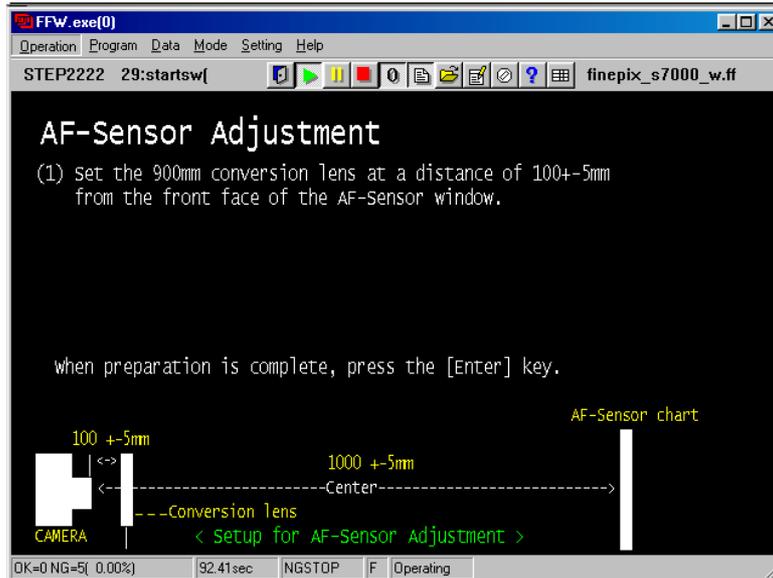


Fig.10

---> The [AF-Sensor adjustment 900mm Screen (Fig.10)] appears.

<Step 6>

**900mm conversion lens setup distance : 100mm+/-5mm from front face of AF sensor window.**

**Chart surface reflective luminance : 8.0Ev to 10.0Ev** Press the Enter key.

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

----> The [AF-Sensor adjustment 700mm Screen (Fig.11)] appears.

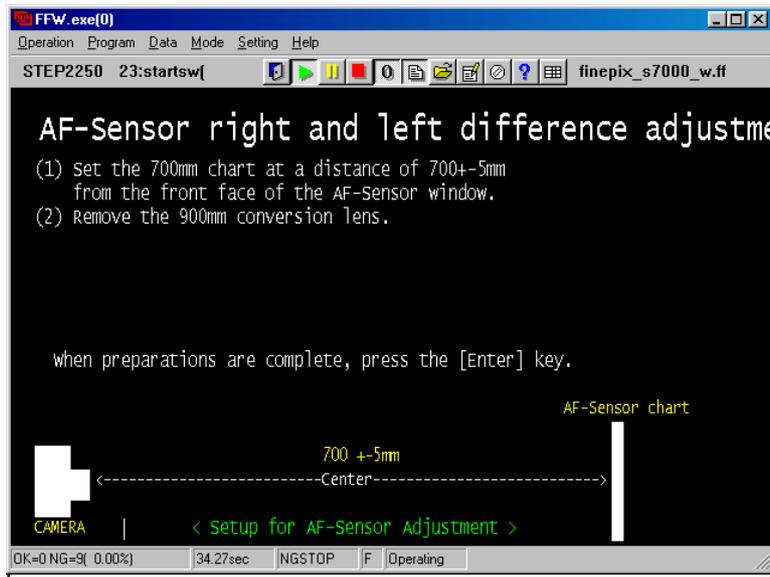


Fig.11

<Step 7>

**Remove 900mm conversion lens and setup the 700mm Chart distance : 700mm +/- 5mm from front face of AF sensor window.**

**Chart surface reflective luminance : 8.0Ev to 10.0Ev** Press the Enter key.

--> The [AF-Assist light adjustment complete Screen (Fig.12)] appears.

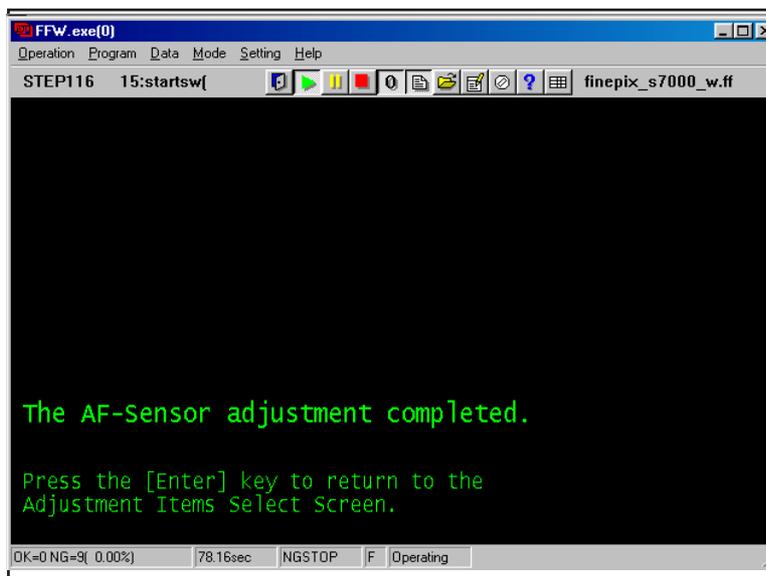


Fig.12

<Step 8>

Press the Enter key while in the [AF-Sensor adjustment Complete Screen (Fig.12)].

---> 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.13-1)

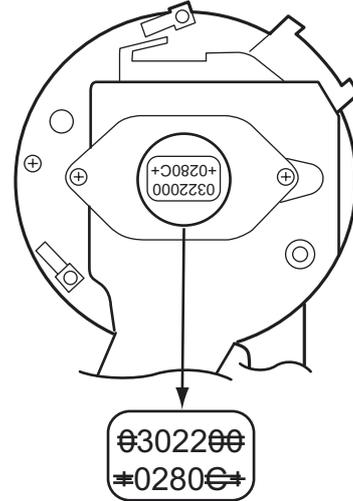


Fig.13-1

#### <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.13-2-(1))] in the CCD defect data folder, and download "3022.zip[Fig.13-2-(2)]".

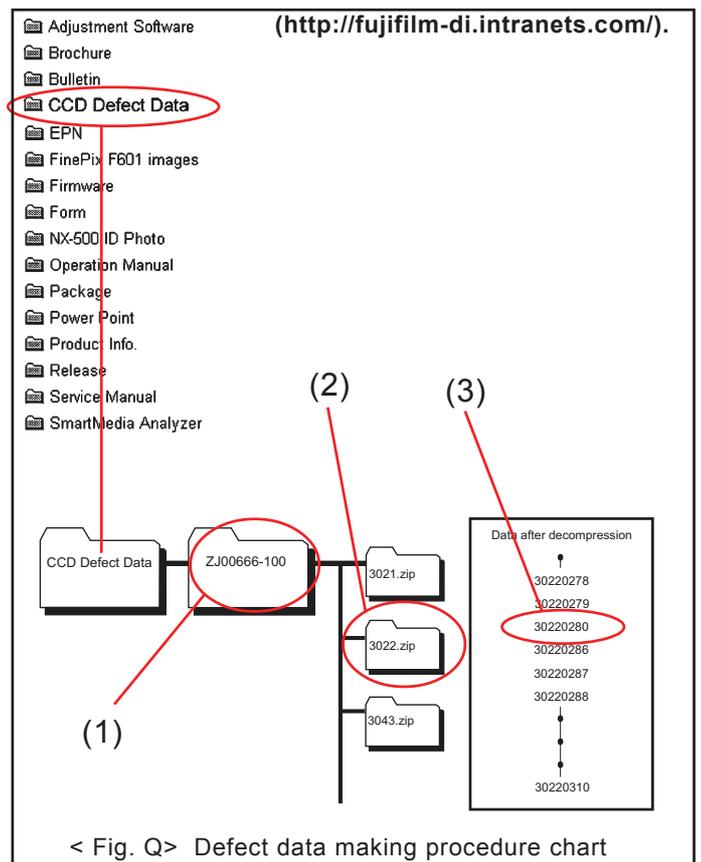
#### <Step 3>

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. Q > Defect data making procedure chart

Fig.13-2

#### <Step 5>

Open in "3022 folders", search for

**"30220280.dat[Fig.13-2-(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.14)] appears.

<Step 7>

Make the following preparations in accordance with the instructions on the [CCD Data input Start Screen (Fig.14)].

- 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.

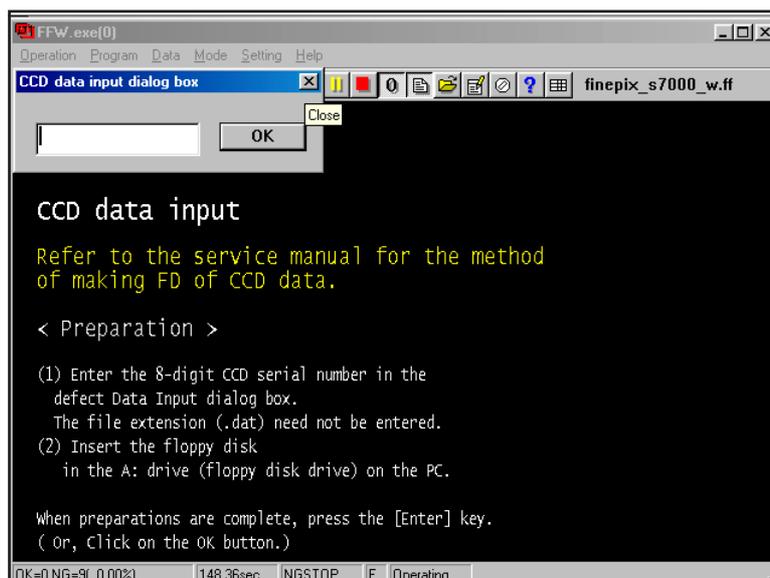


Fig.14

---> When the adjustment data is written satisfactorily to the Flash ROM the [CCD Data Input Complete Screen (Fig.15)] appears.

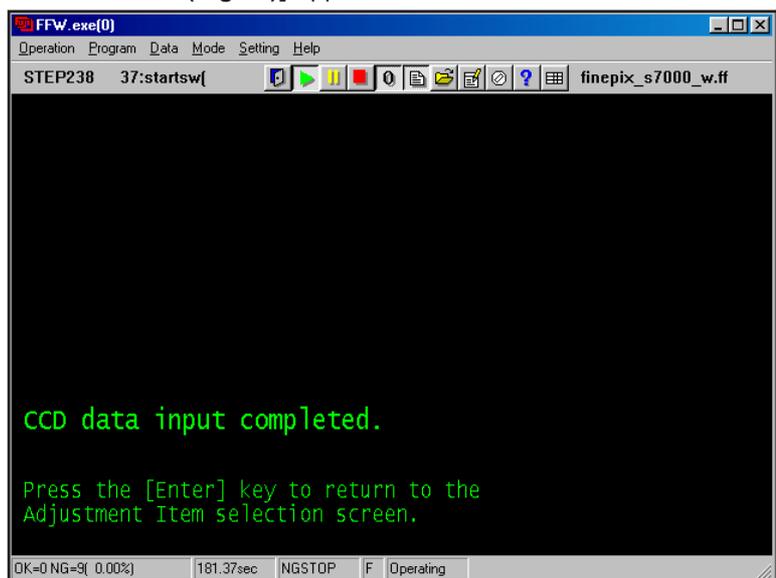


Fig.15

<Step 8>

Press the Enter key while in the [CCD Data input Complete Screen (Fig.15)].

---> 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)

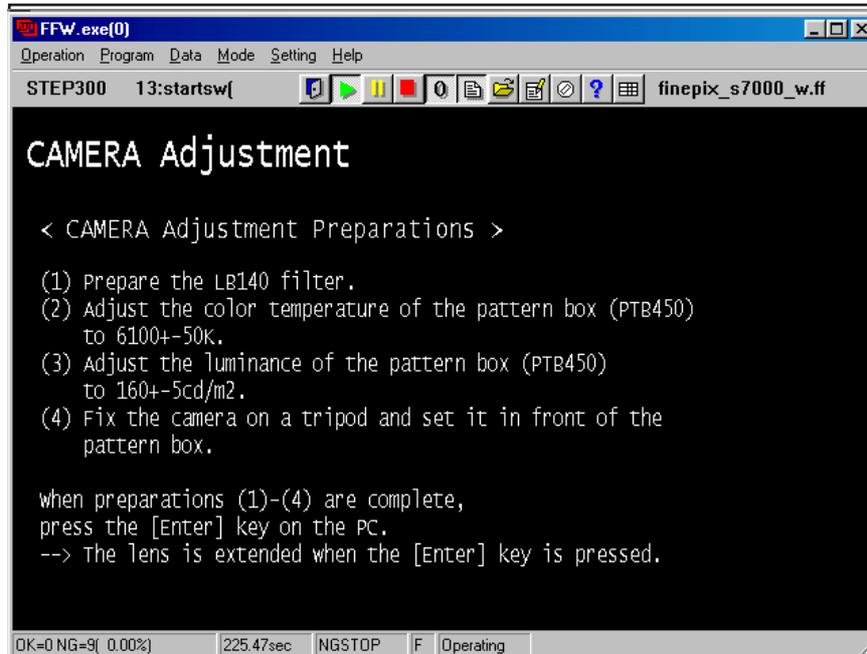


Fig.16

---> The [Shutter Adjustment Preparation Screen (Fig.16)] 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.

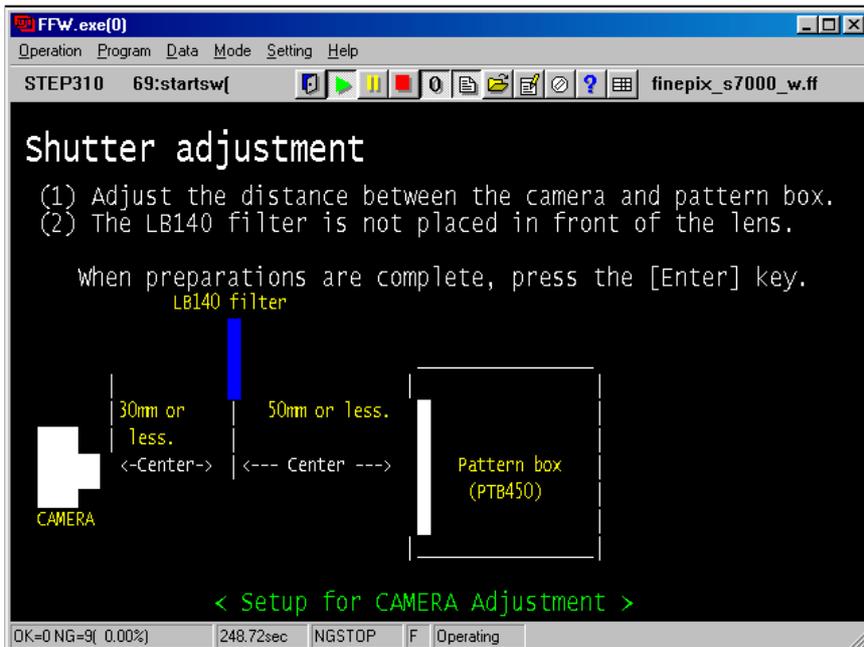


Fig.17

---> Camera adjustment begins.

<Step 3>

Fit the LB140 filter in accordance with the instructions on the screen (Fig.18).

When preparations are complete, press the Enter key.

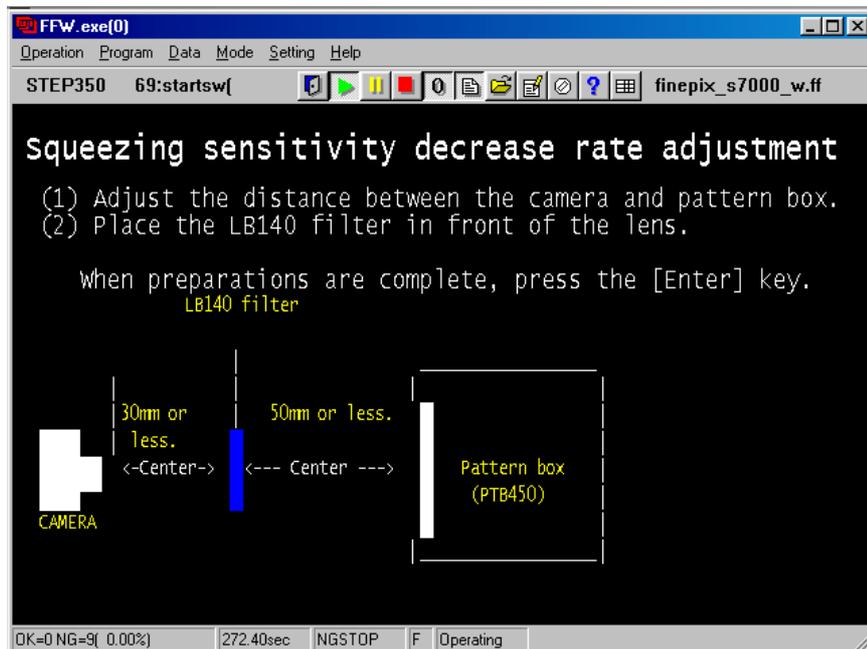


Fig.18

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

<Step 4>

Remove the LB140 filter in accordance with the instructions on the screen (Fig.19).

When preparations are complete, press the Enter key.

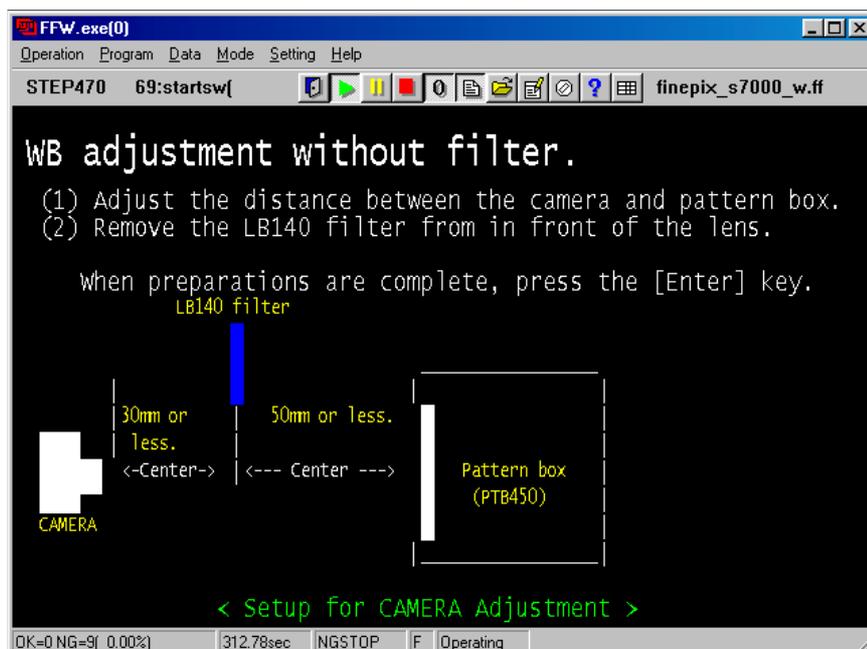


Fig.19

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

<Step 5>

Fit the LB140 filter in accordance with the instructions on the screen (Fig.20).

When preparations are complete, press the Enter key.

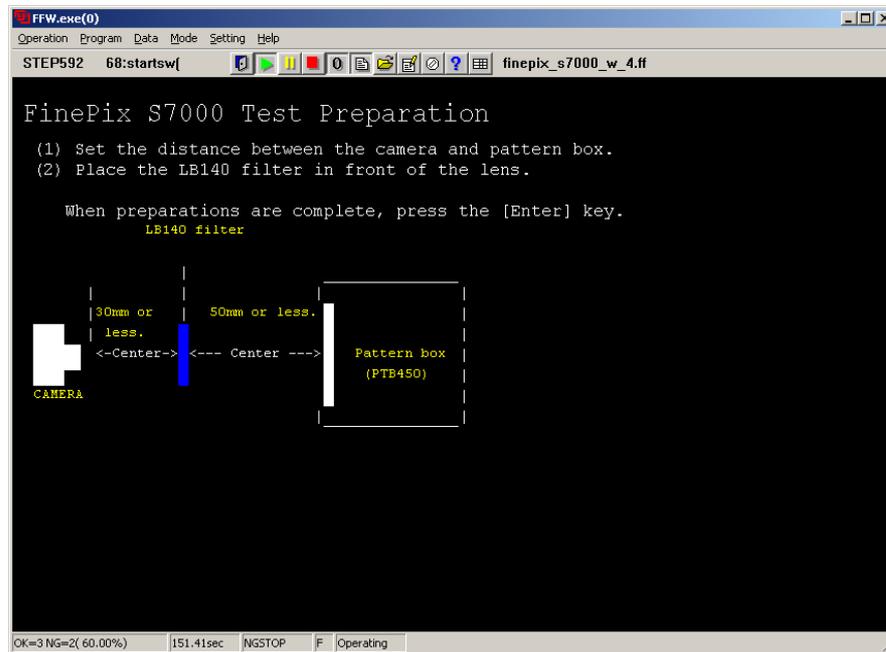


Fig.20

<Step 6>

The screen in Fig.21 appears when adjustment is completed satisfactorily.

Press the Enter key.

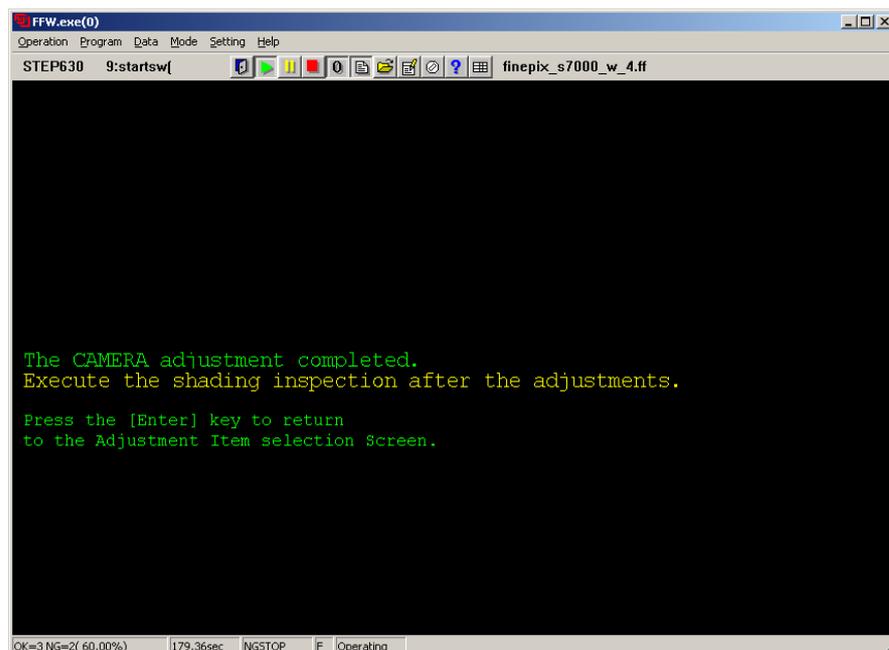


Fig.21

---> The system returns to the **[Adjustment Items Selection 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 focus ring.
2. After replacing the LENS CONST or MAIN PWB ASSY, always run AF adjustment after camera adjustment.
3. Do not connect VIDEO cable while adjusting AF.

<Step 1>

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

---> The **[AF Adjustment Preparation Screen (Fig.22)]** appears.

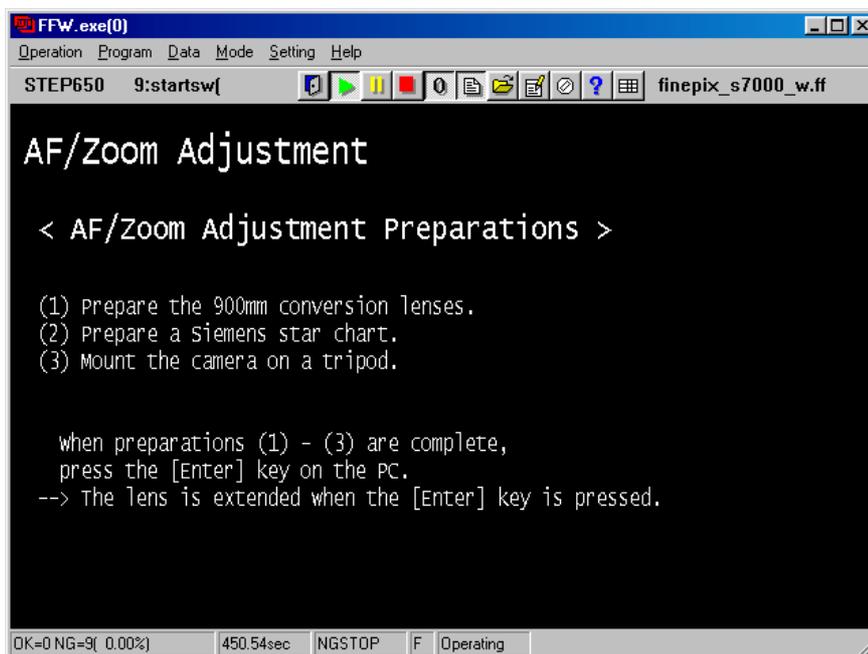


Fig.22

<Step 2>

When preparations are complete, press the Enter key.

--->The [AF Adjustment Start screen(Fig23)] appears.

<Step 3>

When preparations are complete, press the Enter key.

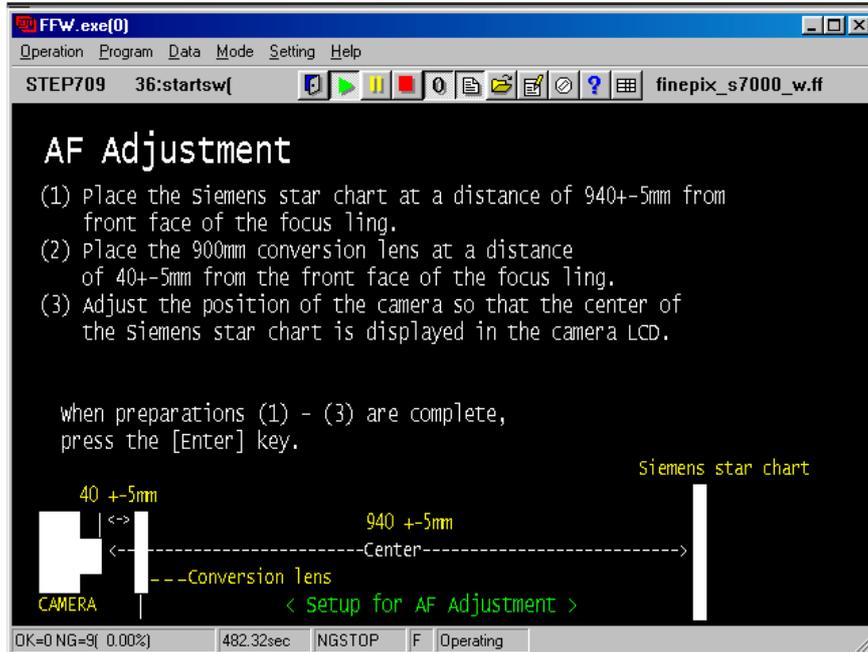


Fig.23

--->The [AF 900mm Adjustment screen(Fig24)] appears.

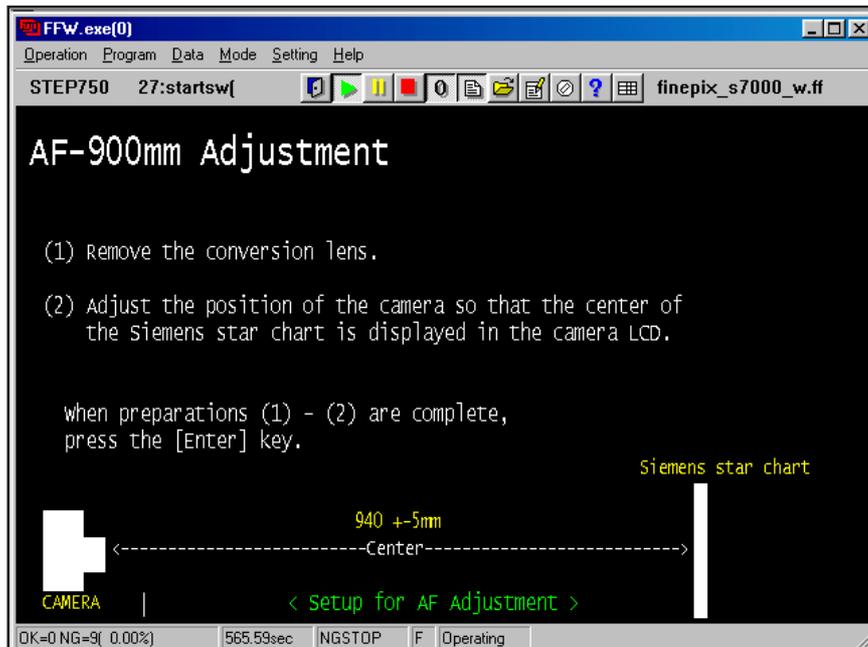


Fig.24

<Step 4>

When preparations are complete, press the Enter key.

--->The [AF 500mm Adjustment Start screen(Fig25)] appears.

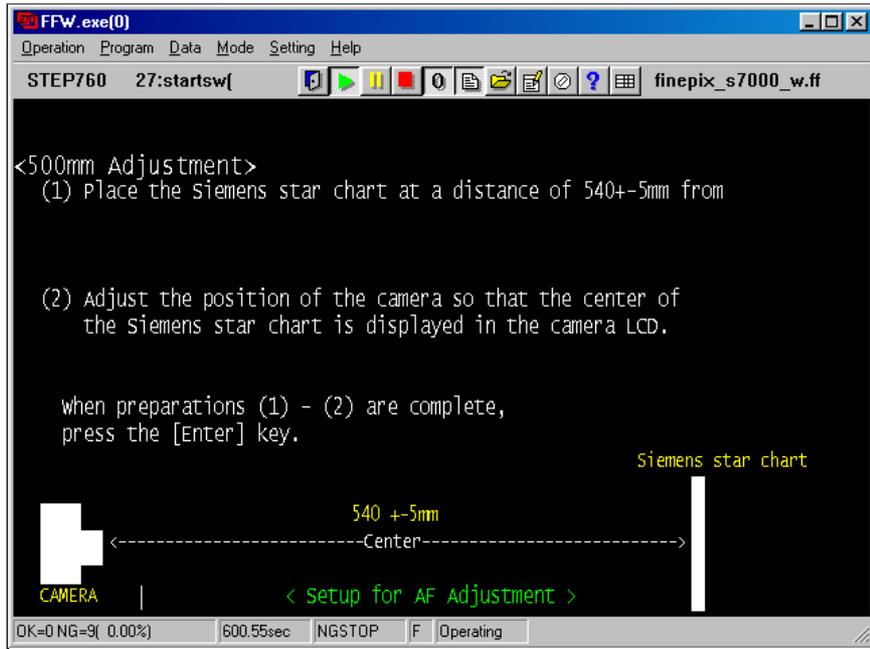


Fig.25

<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.26)] appears.

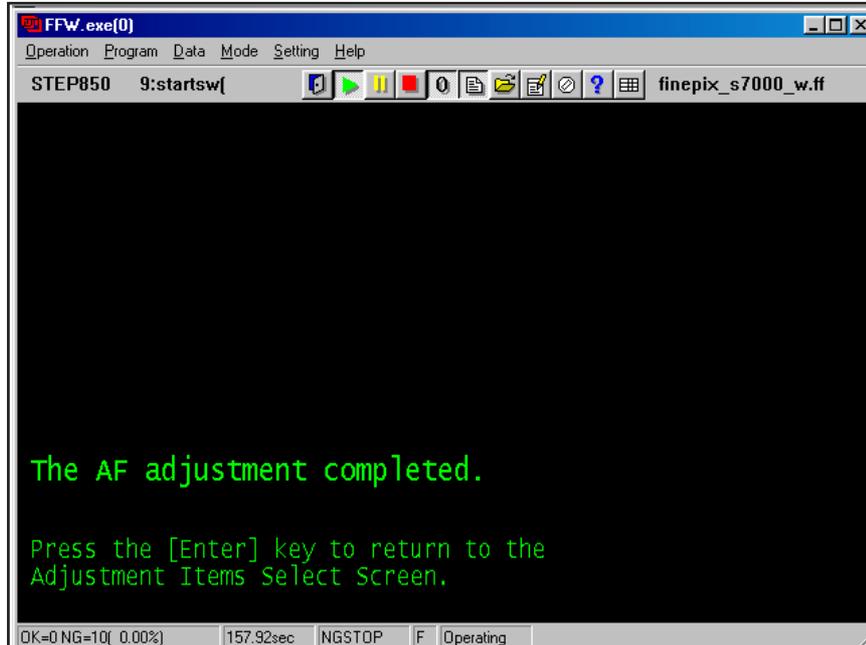


Fig.26

<Step 6>

Press the Enter key.

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

**AF adjustment is now complete.**

## 4-14. [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.

## &lt;Step 1&gt;

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

---> The [Flash Adjustment Preparation Screen (Fig.27)] appears.

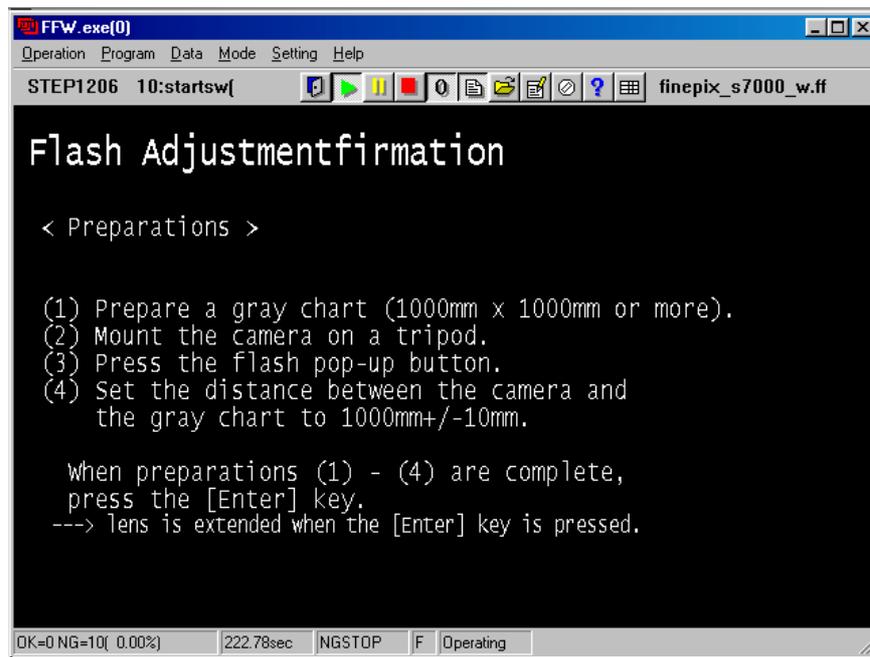


Fig.27

## &lt;Step 2&gt;

When preparations are complete, press the Enter key.

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

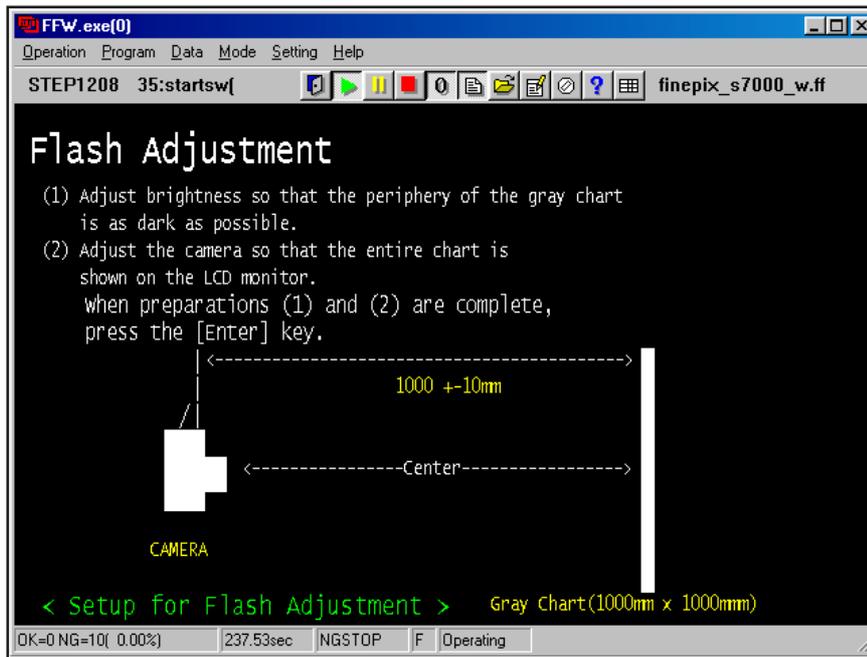


Fig.28

<Step 3>

When preparations are complete, press the Enter key.

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

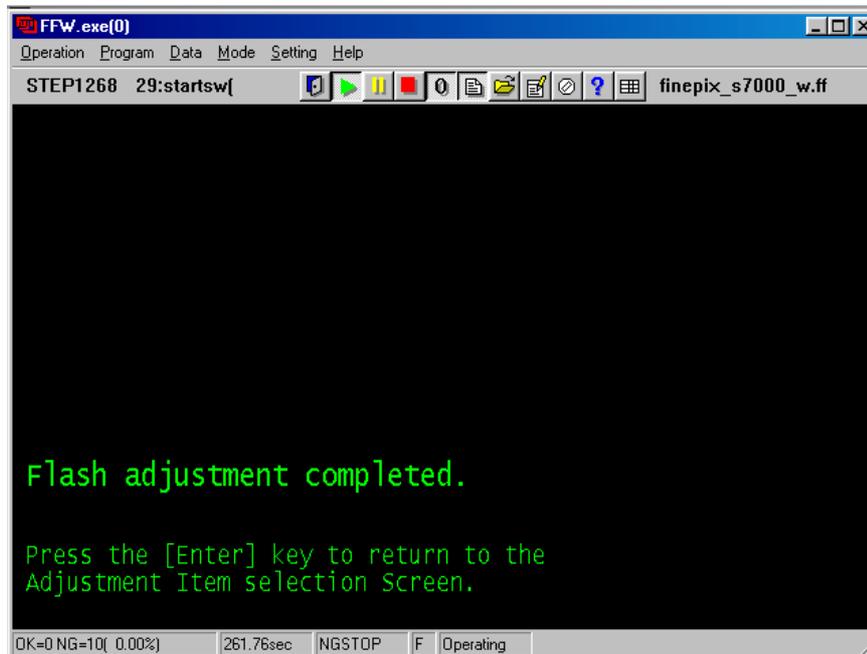


Fig.29

<Step 4>

Press the Enter key.

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

**Flash adjustment is complete.**

## 4-15. [F1] : Battery voltage adjustment

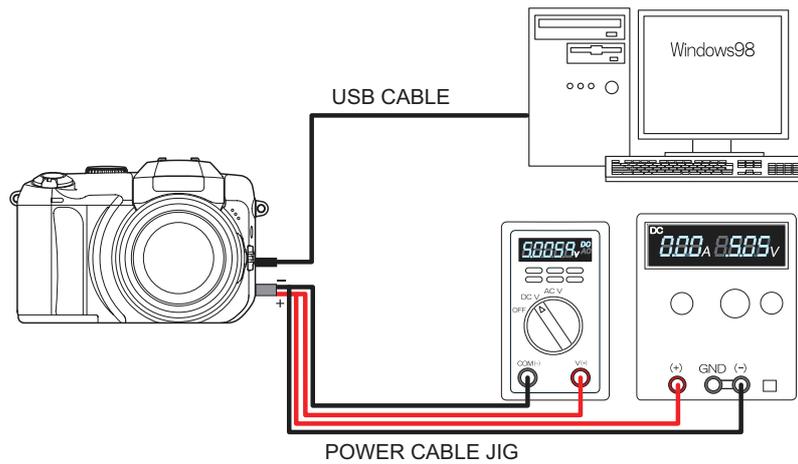
**Caution:**

1. When running battery adjustment, supply power (5V) to the camera using **the Power cable 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)

---> The **[Battery Voltage Preparation Screen (Fig.30)]** appears.

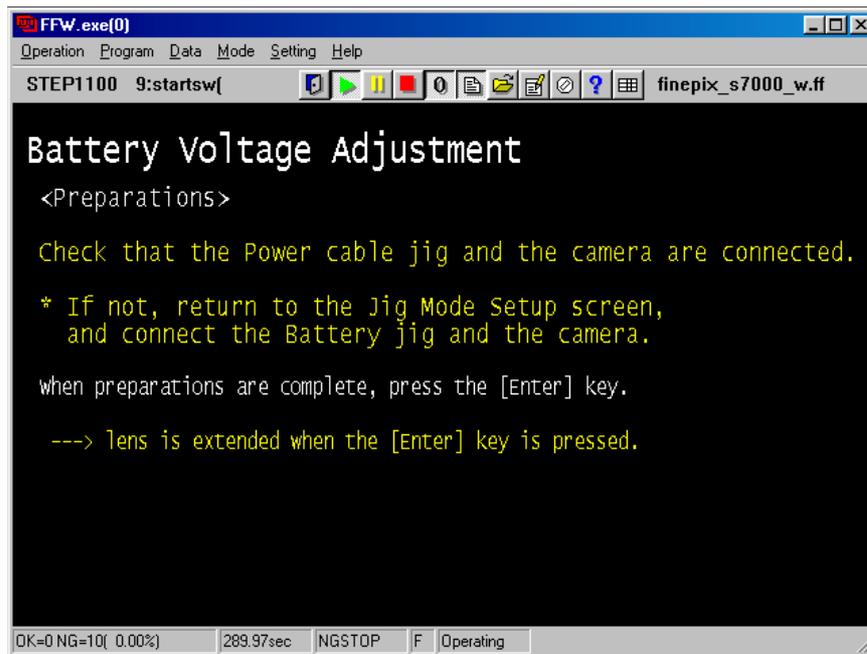


Fig.30

<Step 2>

When preparations are complete, press the Enter key.

---> The [Battery Voltage Setting Screen 4.40V (Fig.31)] appears.

<Step 3>

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

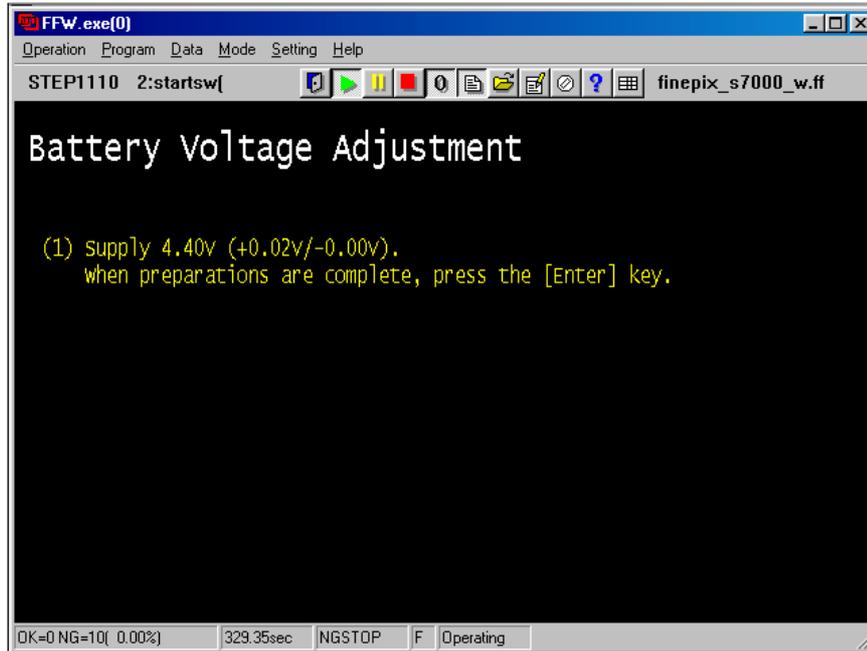


Fig.31

---> The [Battery Voltage Setting Screen 3.90V (Fig.32)] appears.

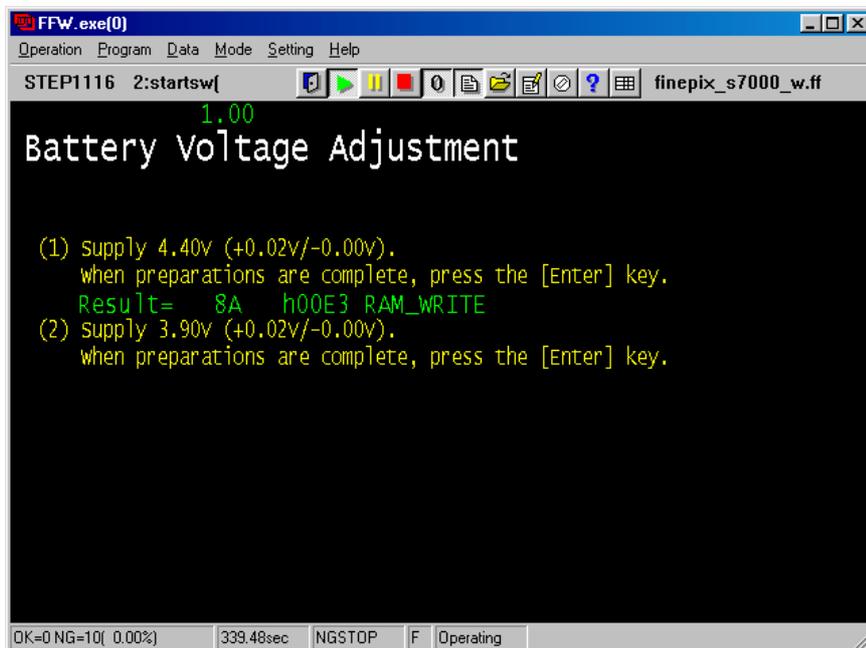


Fig.32

<Step 4>

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

---> The [Battery Voltage Setting Screen 5.00V (Fig.33)] appears.

<Step 5>

Set input voltage at **5.00V**, and press the Enter key.

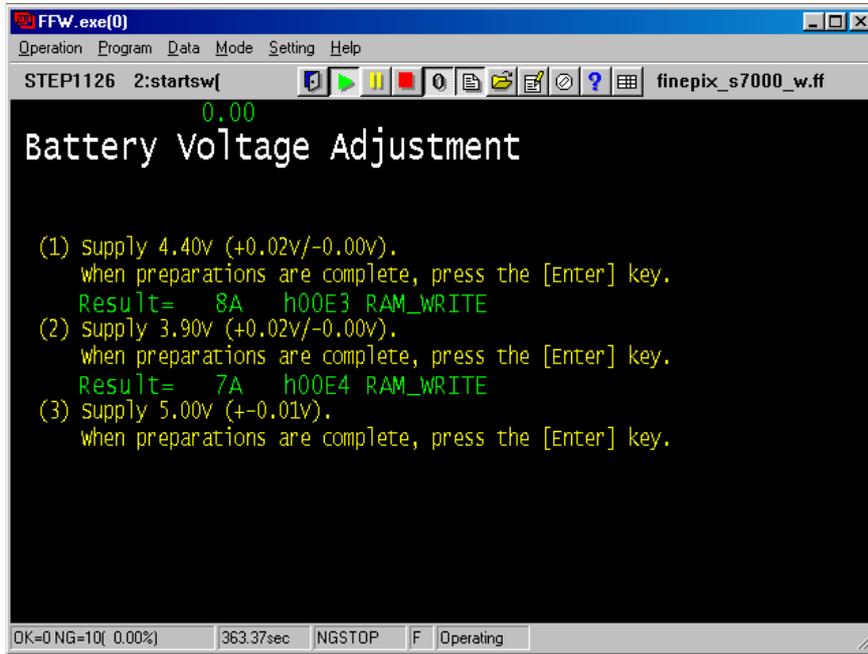


Fig.33

---> The [Battery Voltage Setting Complete Screen (Fig.33)] appears.

<Step 6>

Press the Enter key.

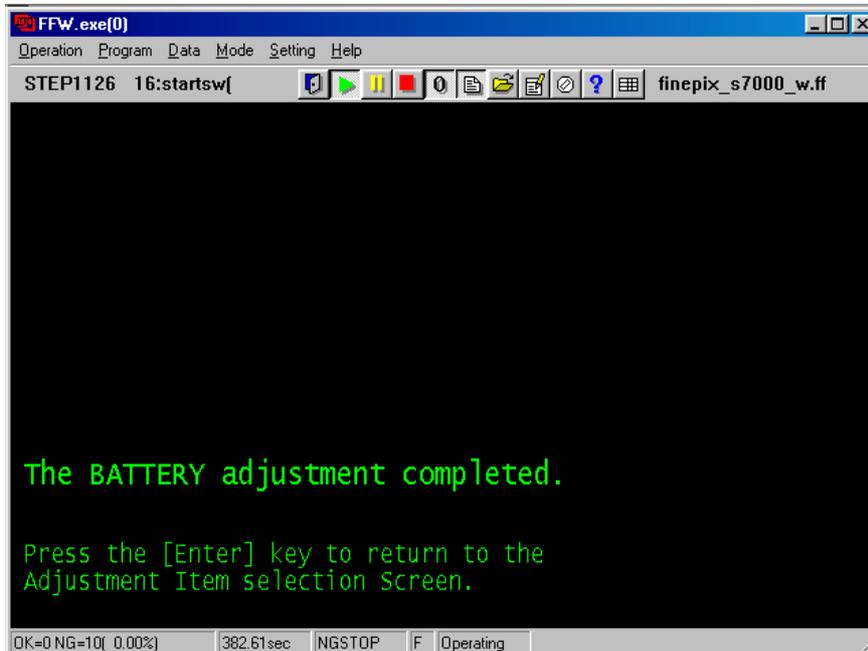


Fig.34

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

**Battery voltage adjustment is completed.**

## 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).

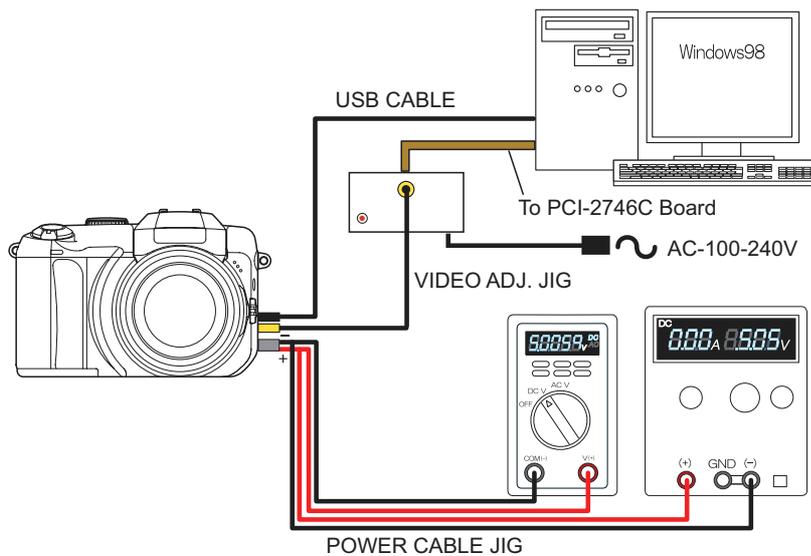


Fig.35

---->The [VIDEO Adjustment Preparation screen (Fig.36)] appears.

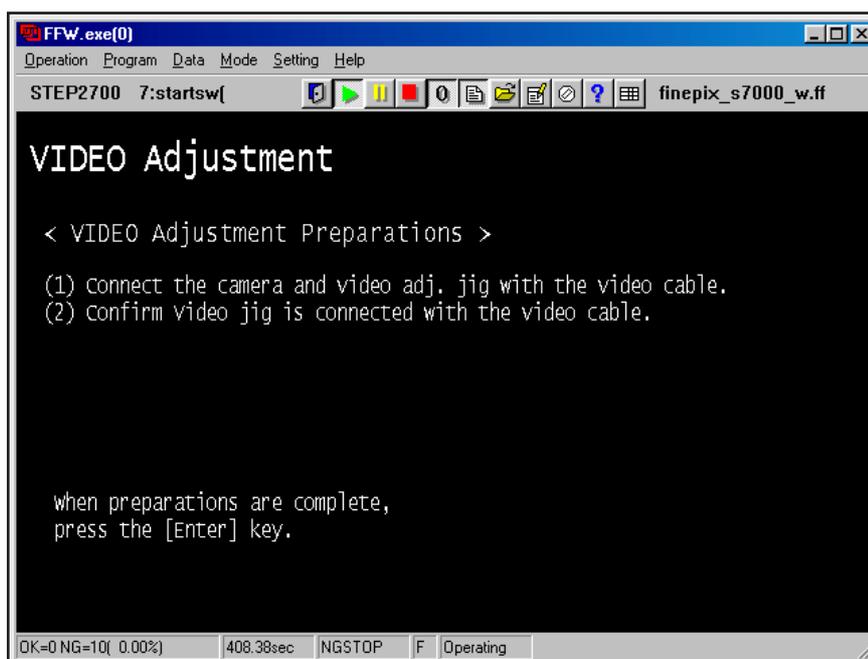


Fig.36

<Step 2>

When preparations are complete, press the Enter key.

--->The [VIDEO Adjustment Complete screen (Fig.37)] appears.

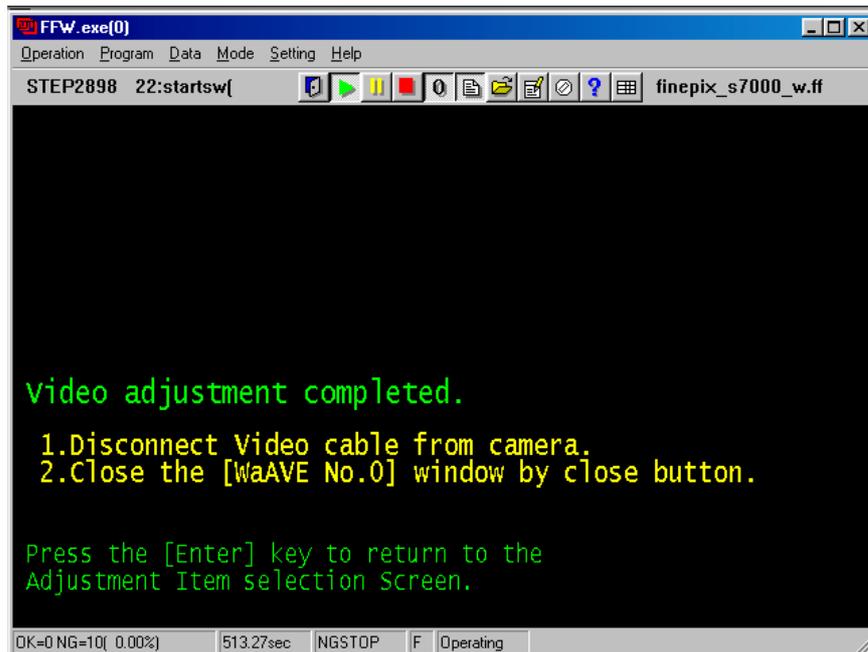


Fig.37

<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)

---> The [Download start Screen (Fig.38)] appears.

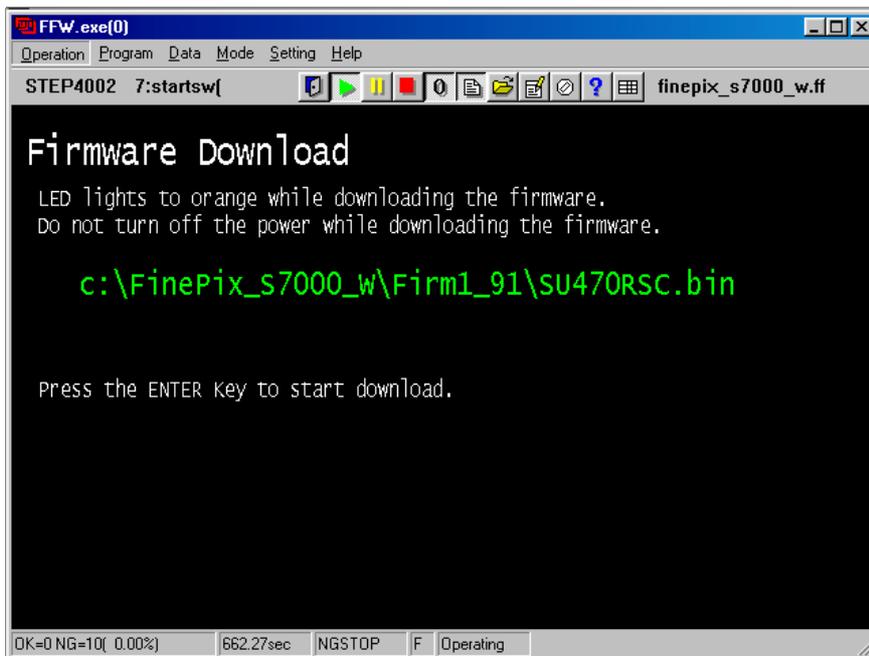


Fig.38

### <Step 2>

Follow the instructions on the [Download start Screen (Fig.38)], and press the Enter key.

---> The [Downloading Screen (Fig.39)] appears.

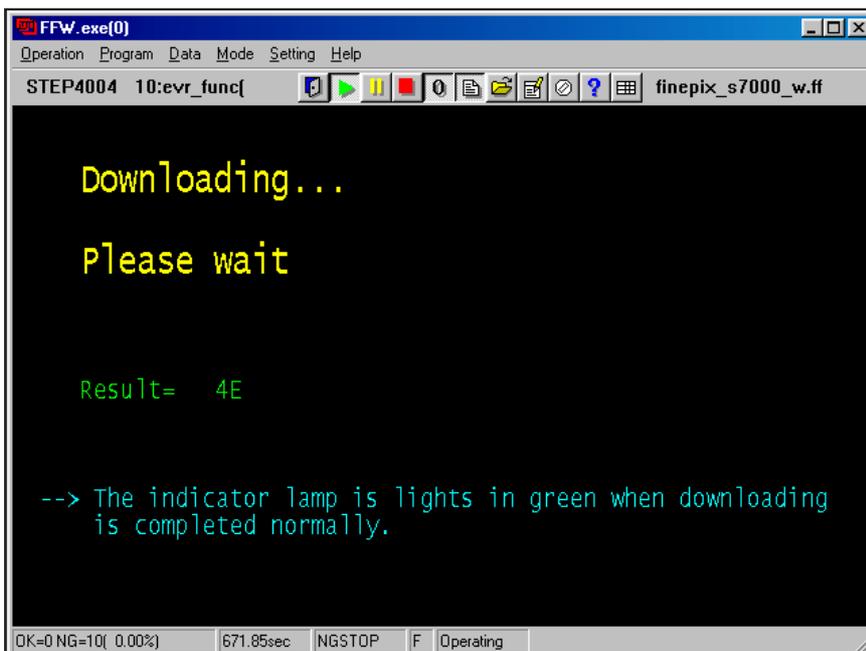


Fig.39

---> The [Downloading Complete Screen (Fig.40)] appears.

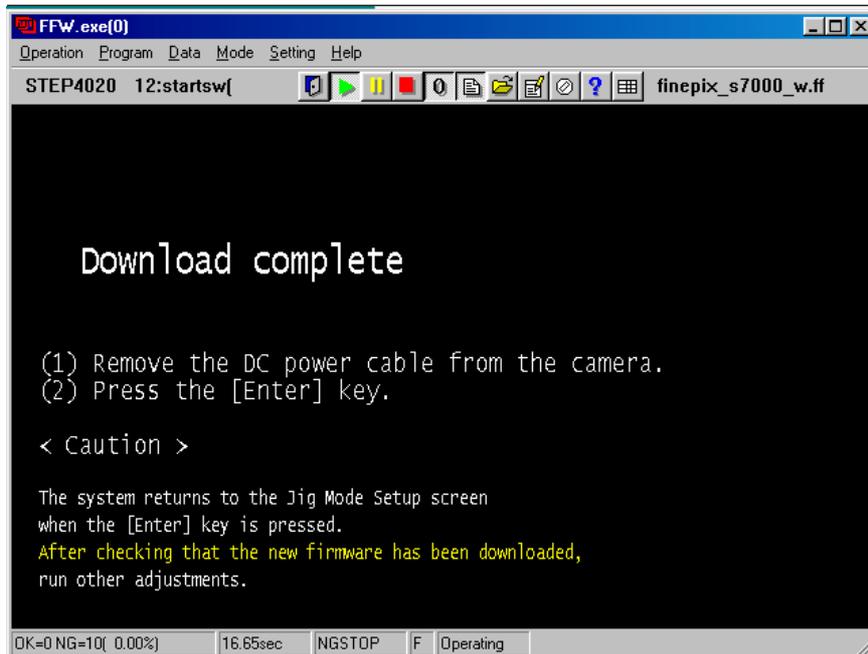


Fig.40

<Step 3>

Follow the instructions on the [Downloading Complete Screen (Fig.40)], 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.
AdministratorID	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).

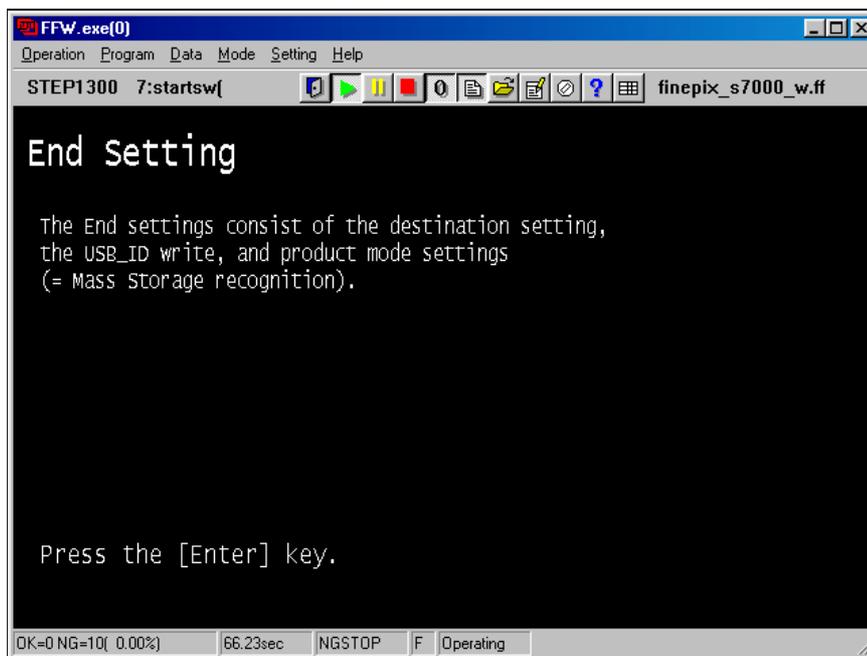


Fig.41

---> The **[End Setting Start Screen (Fig.41)]** is appears.

<Step 2>

Follow instructions on the **[End Setting Start Screen (Fig.41)]**, and press the [Enter] key.

---> The [Destination Select Screen (Fig.42)] is appears.

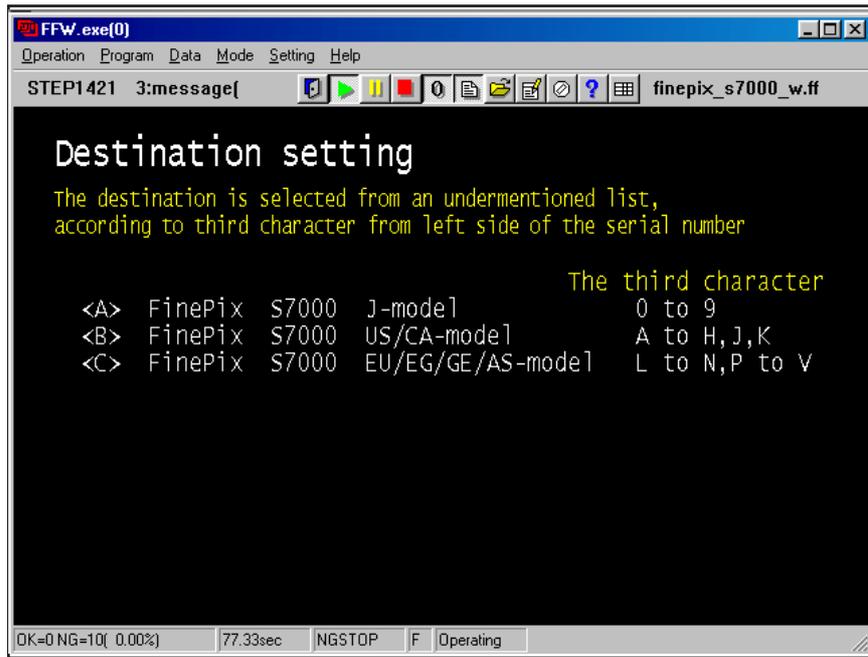


Fig.42

<Step 3>

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.

--> The [Destination Selected Screen (Fig.43)] is appears.

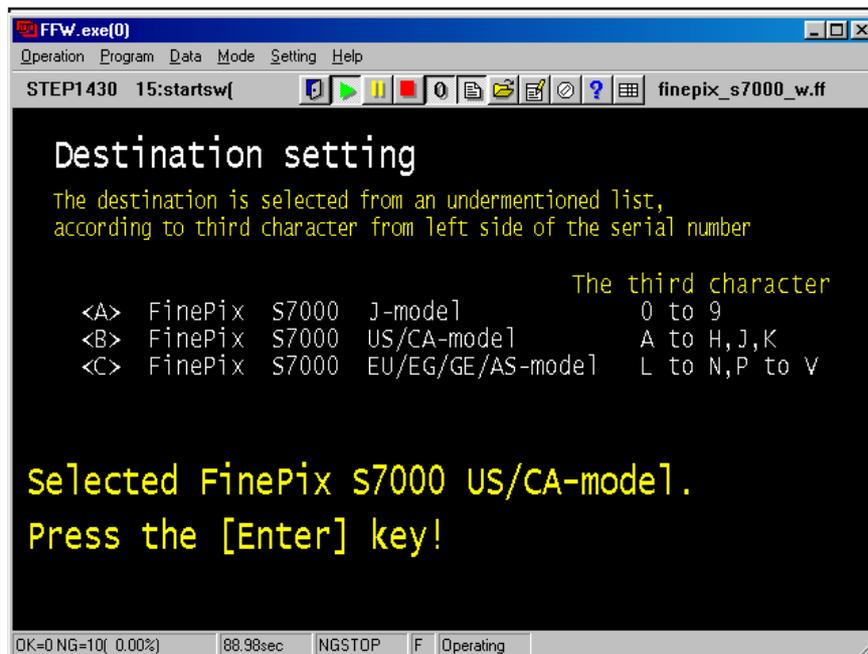


Fig.43

<Step 4>

Press the [Enter] key.

---> The [Repair Site Select Screen (Fig.44)] is appears.



Fig.44

<Step 5>

Follow instruction on the [Repair site Select Screen (Fig.44)], and press the [H] key.

\* This example uses USA site.

---> The [USB ID USA site selected Screen (Fig.45)] is appears.

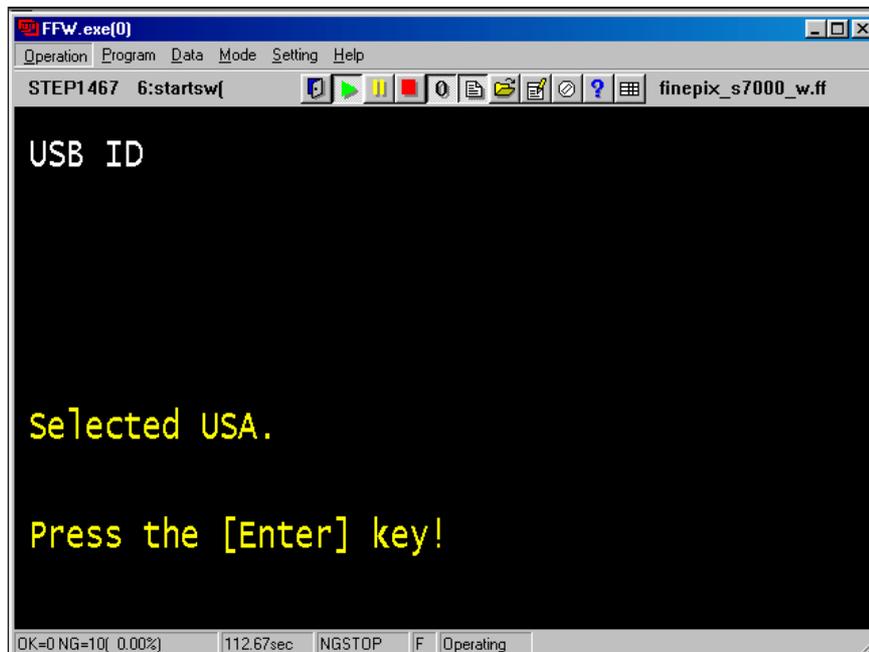


Fig.45

<Step 6>

Press the [Enter] key.

---> The [Adjustment details selection Screen (Fig.46)] is appears.

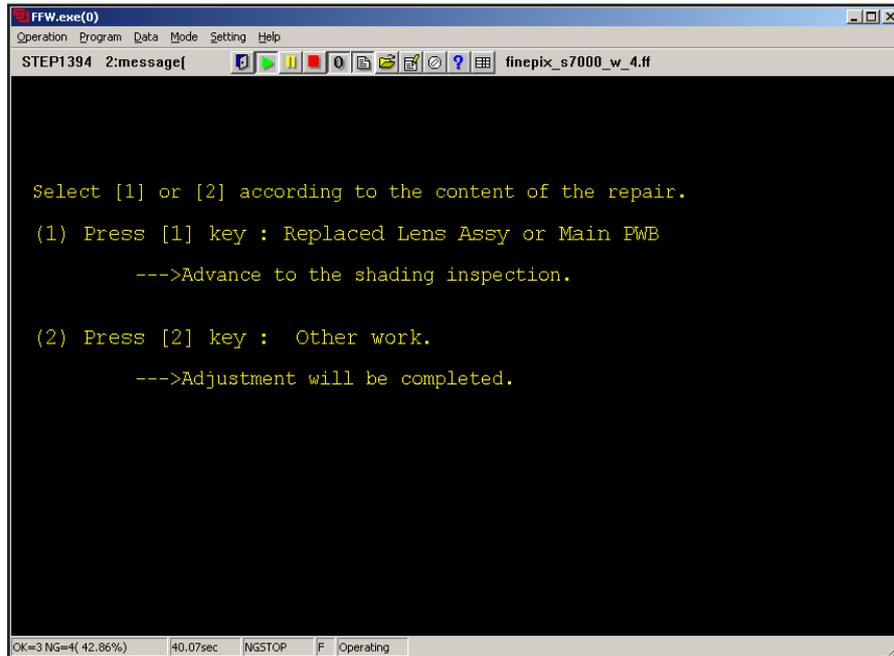


Fig.46

<Step 7>

Select a setting in the [Adjustment details selection Screen(Fig.46)].

Select [1] to proceed to the shading check.

Select [2] to display the adjustment completion window (Fig.55).

---> The [Shading check preparation Screen (Fig.47)] is appears.

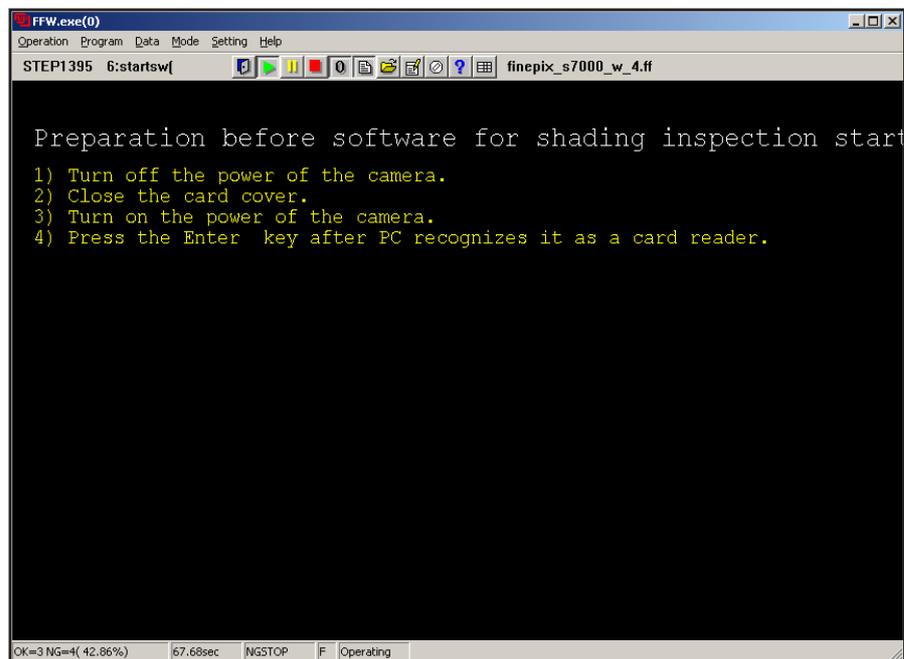


Fig.47

<Step 8>

Following the on-screen instructions in the [Shading check preparation Screen (Fig.47)] :

- 1) Turn the camera off.
- 2) Close the card slot cover.
- 3) Turn the camera on.
- 4) Once the camera has been recognized by the PC as a card reader, press the "Enter" key.

---> The [Using the test program Screen (Fig.48)] is appears.

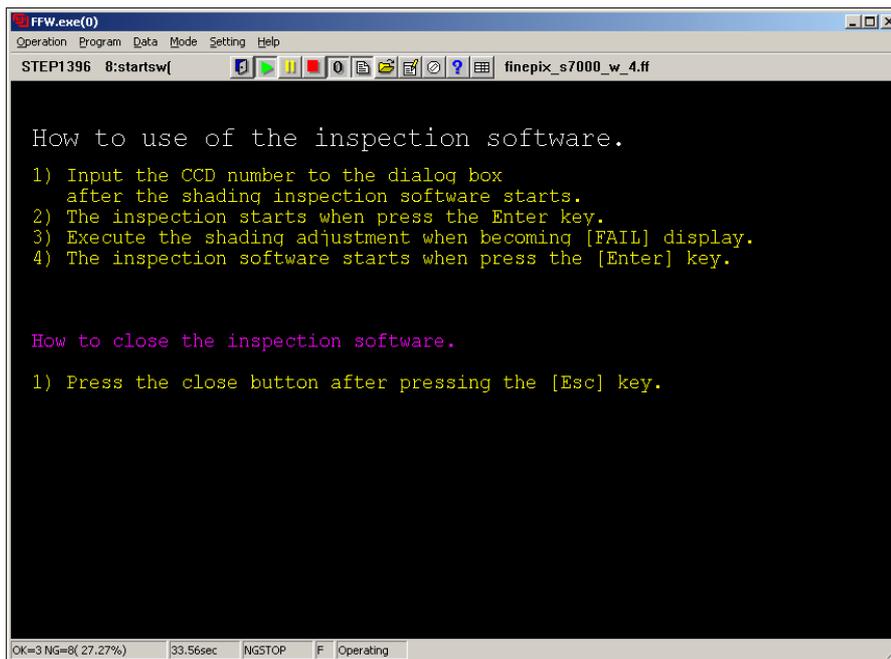


Fig.48

<Step 9>

Carefully read the information in the “Using the test program” window (Fig.48) and then press the “Enter” key on the PC.

---> The test program [su-470 Deltac Test Program (Fig.49)] is starts up.

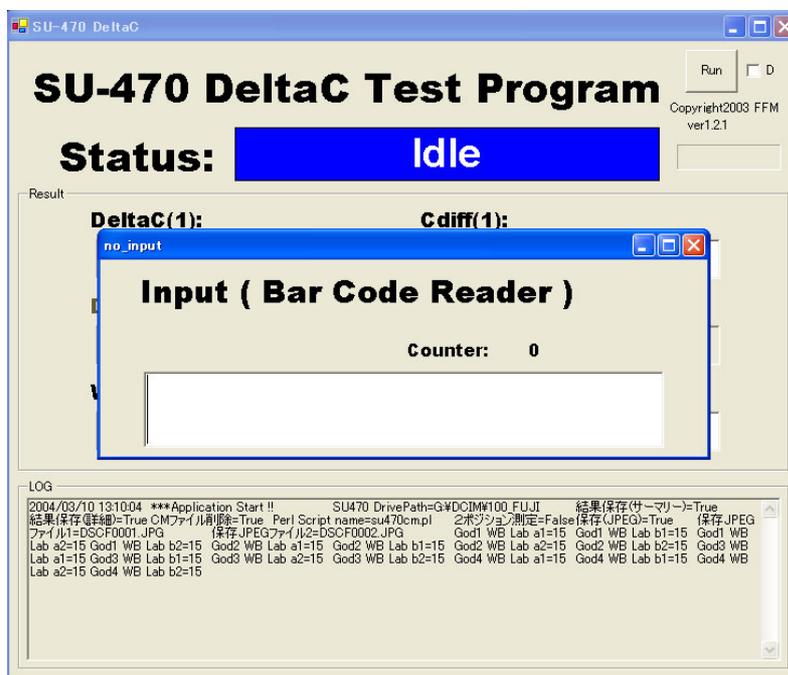


Fig.49

<Step 10>

- 1) Type the CCD number directly into the input dialog box.
- 2) Press the “Enter” key on the PC.

---> When the "Enter" key is pressed, the shading check begins and the results are displayed on screen.



Fig.50



Fig.51

When [PASS (Fig.50)] is displayed as the check result, adjustment is complete.

When [FAIL (Fig.51)] is displayed as the check result, adjust the shading.

<Step 11>

Check the results and exit the test program.

Press the "Esc" key.

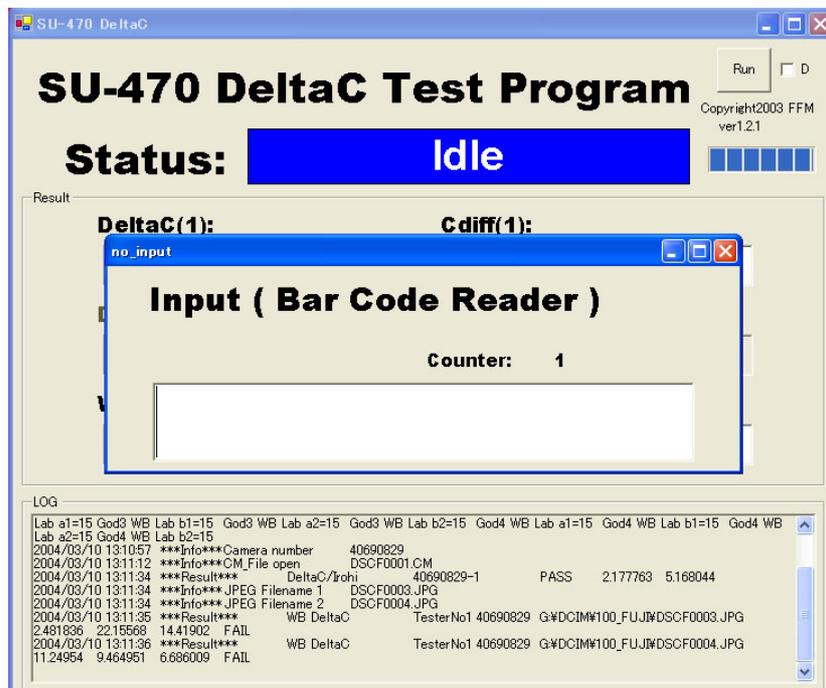


Fig.52

---> Close the input dialog box.

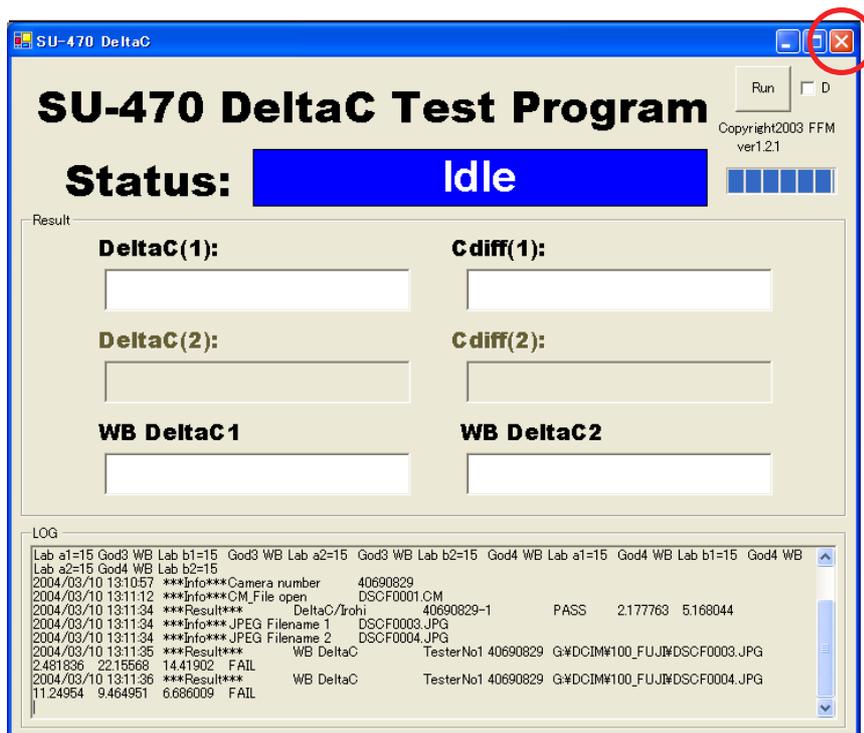


Fig.53

Click the close button.



---> The test program quits.

---> When the settings are completed normally they are saved to the flash ROM, and the [FinePix S7000 Adjustment completed Screen (Fig.54 or 55)] is appears.

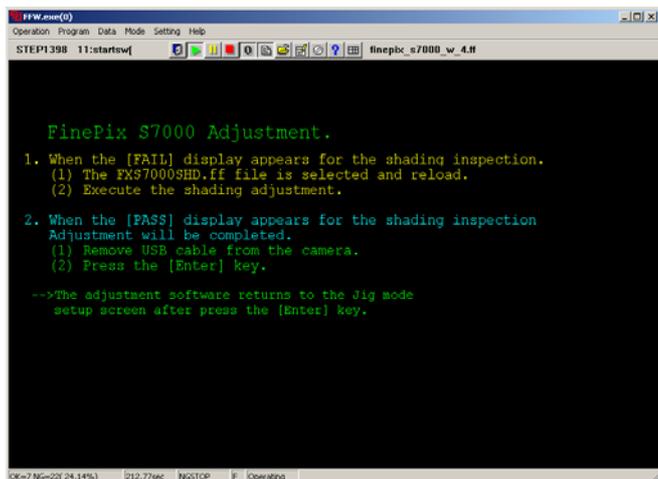


Fig.54

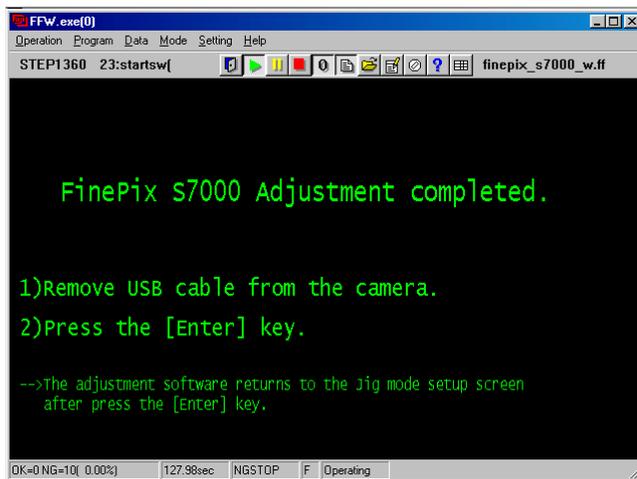


Fig.55

<Step 12>

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

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

## 4-19. Shading adjustment

\* Only adjust the shading when "FAIL" is displayed in the shading check.

<Step 1> (Exiting the general adjustment program and switching to the shading adjustment program)

Click "Programs" -> "Select" in the menu bar.

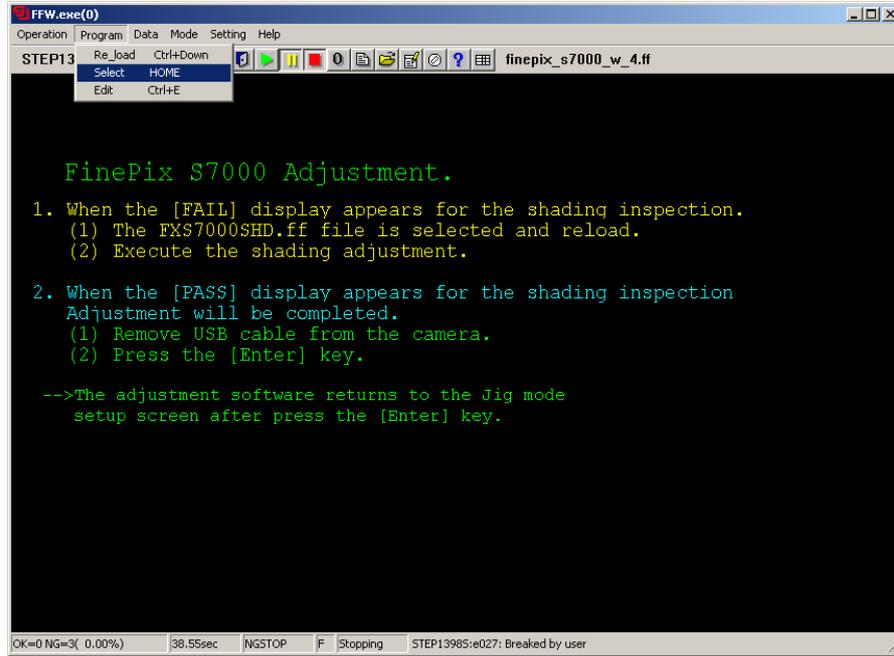


Fig.56

<Step 2>

Select "FXS7000SHD\_J.ff" in the user program selection window and then click "Open".

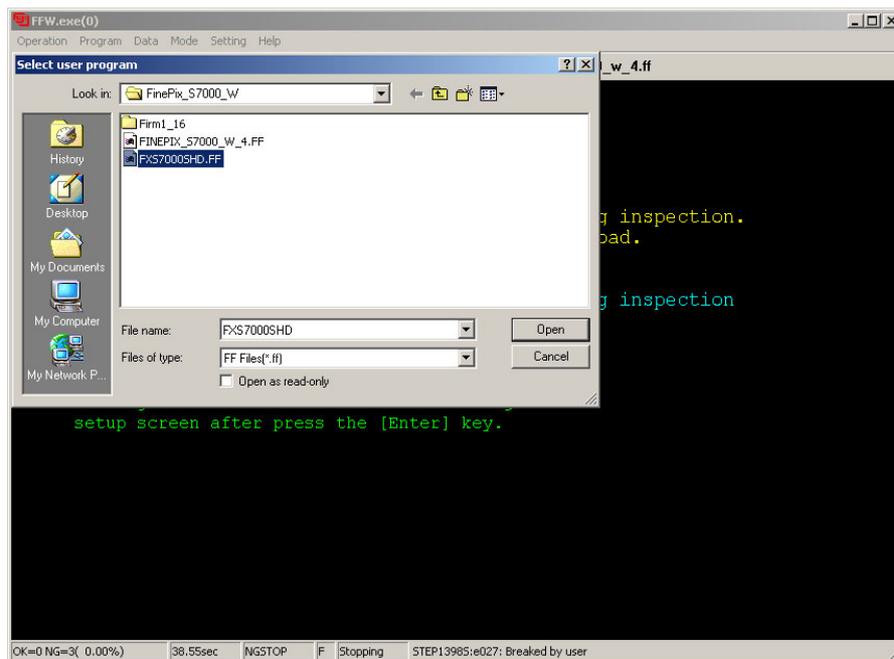


Fig.57

<Step 3>

(1) Click "Programs" -> "Reload" in the menu bar.

(2) Click the zero button. 

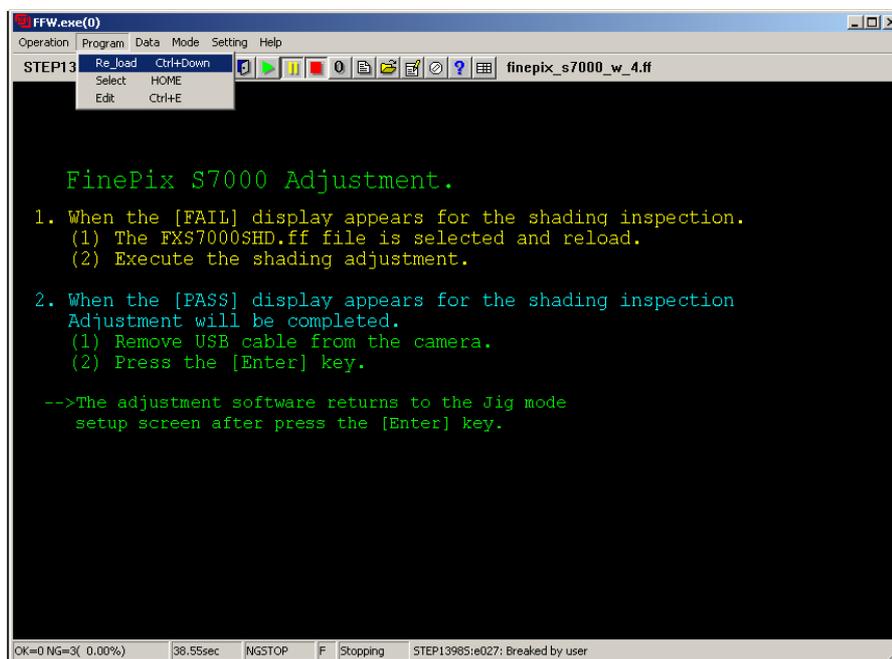


Fig.58

---> The shading adjustment startup window appears.

<Step 4>

Proceed as directed by the on-screen instructions or press the “Enter” key.

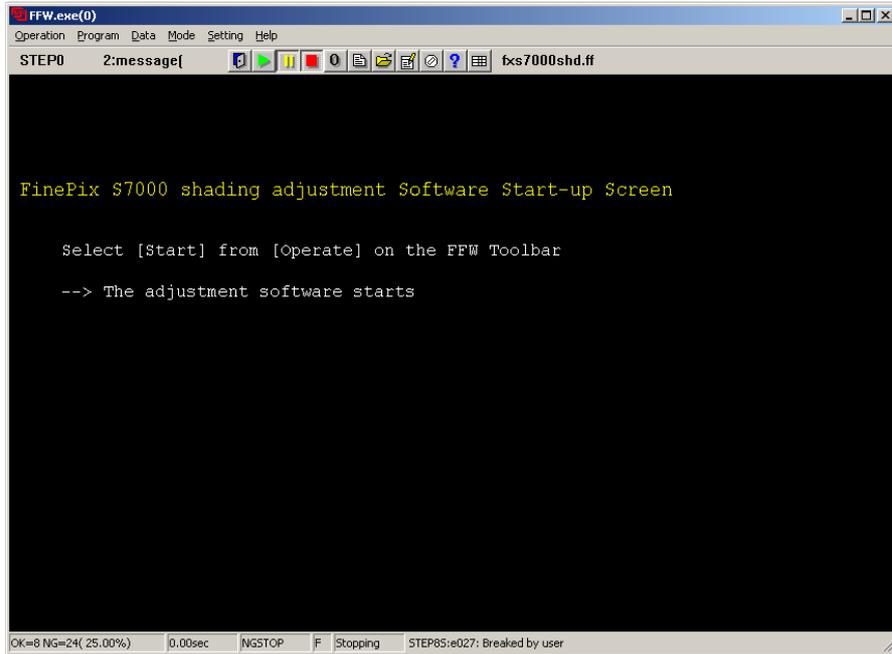


Fig.59

---> The precautions window appears.

<Step 5>

(1) Insert an xD-Picture Card with a capacity of at least 256MB into the camera.

\* The adjustment program formats the card before starting the adjustment.

Take care not to insert a user card by mistake.

(2) When the preparations are completed, press the “Enter” key.

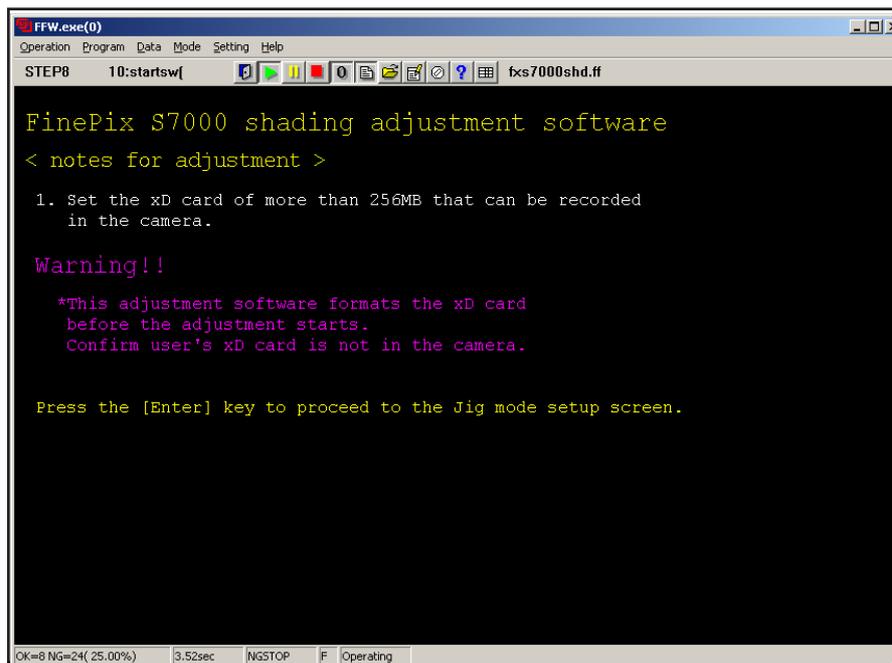


Fig.60

---> The jig mode settings window appears.

<Step 6>

- (1) Start the camera up in jig mode as directed by the on-screen instructions.
- (2) Press the "Enter" key.

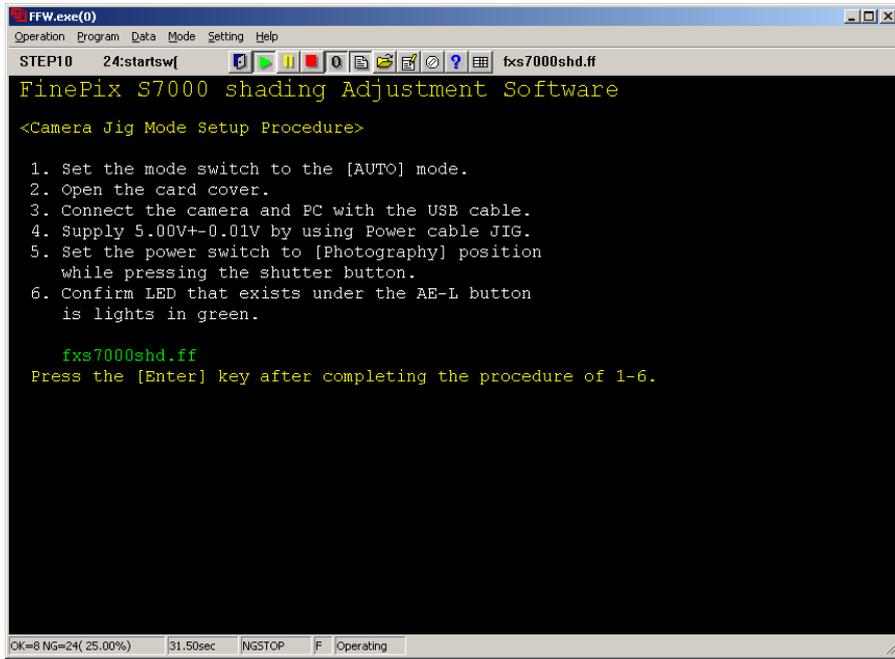


Fig.61

---> A format confirmation message appears.

<Step 7>

Check the details and then press the "Enter" key.

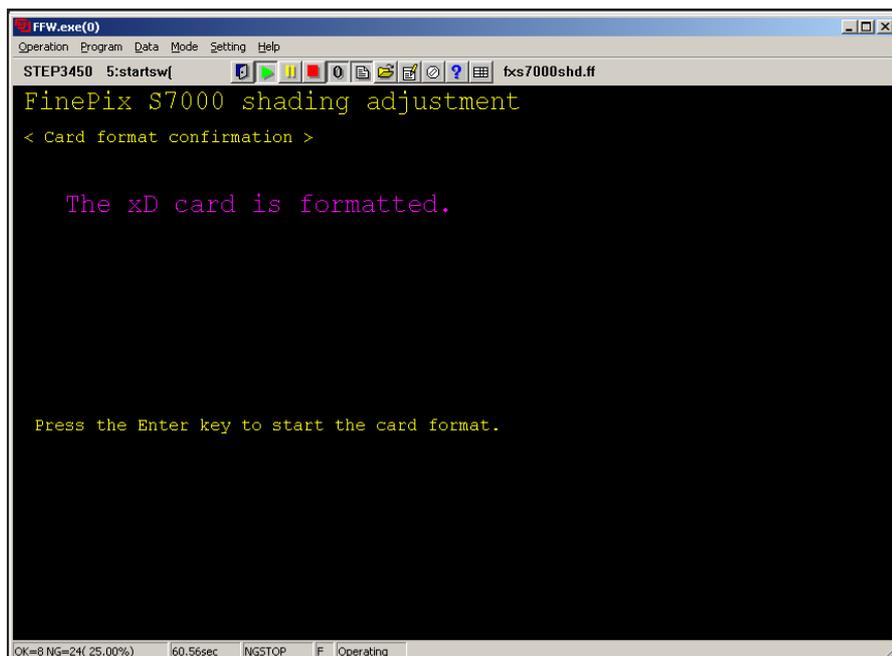


Fig.62

---> Once formatting is completed, the adjustment preparation window appears.

<Step 8>

- (1) Set the camera in front of the pattern box as directed by the on-screen instructions
- (2) Press the "Enter" key.

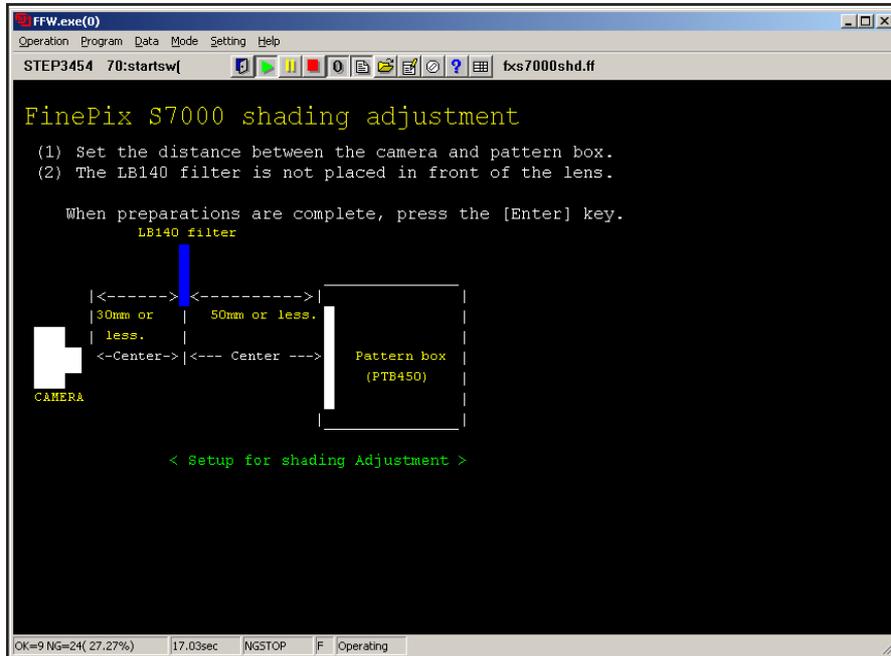


Fig.63

---> Shading correction begins.

---> Once correction is completed, the checking preparation window appears.

<Step 9>

- (1) Start the camera up in DSC mode as directed by the on-screen instructions.
- (2) Once the PC has recognized the camera as a card reader, press the "Enter" key.

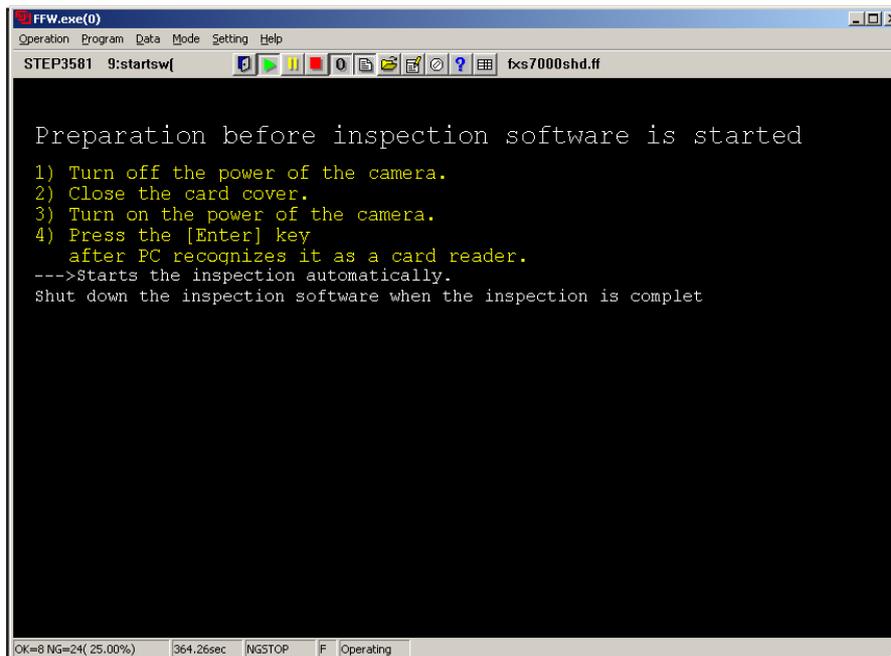


Fig.64

---> The shading check program starts up and checking begins.

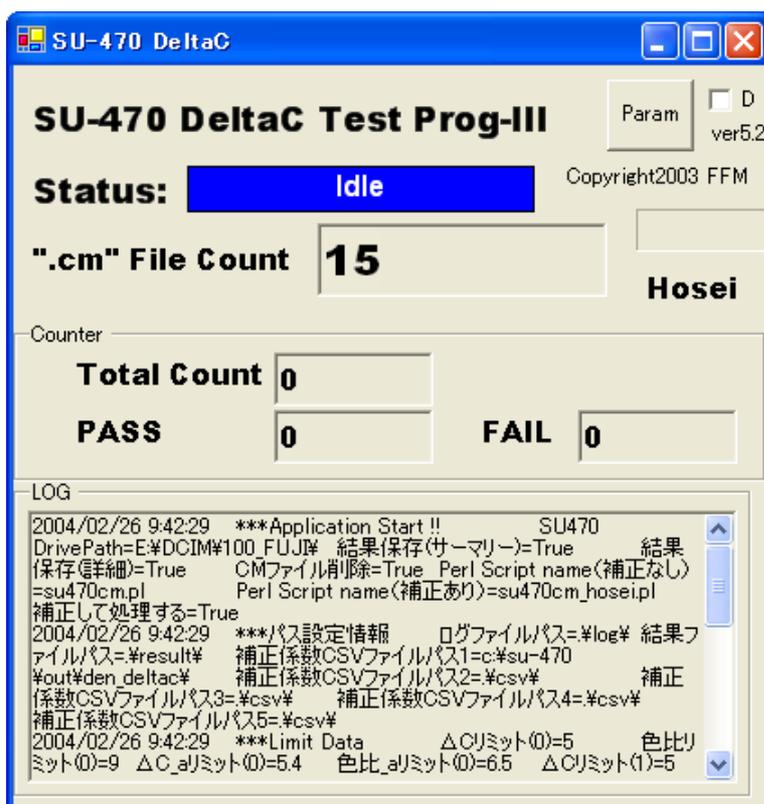


Fig.65

---> When checking is completed, the results are displayed.

<Step 10>

Check the results of the checking and then exit the check program.

\* The check program (deltac2.exe) automatically readjusts the shading as required based on the check results. Even where "PASS" is displayed as the check result, the results of readjustment may be recorded in the next process. For this reason, completion settings must always be specified.

If "FAIL" is displayed as the check result, there is a lens defect. Replace the lens and then perform all the adjustments again.



Fig.66



Fig.67

---> The completion settings preparation window appears.

<Step 11>

- (1) Start the camera up in jig mode as directed by the on-screen instructions.
- (2) Press the “Enter” key.

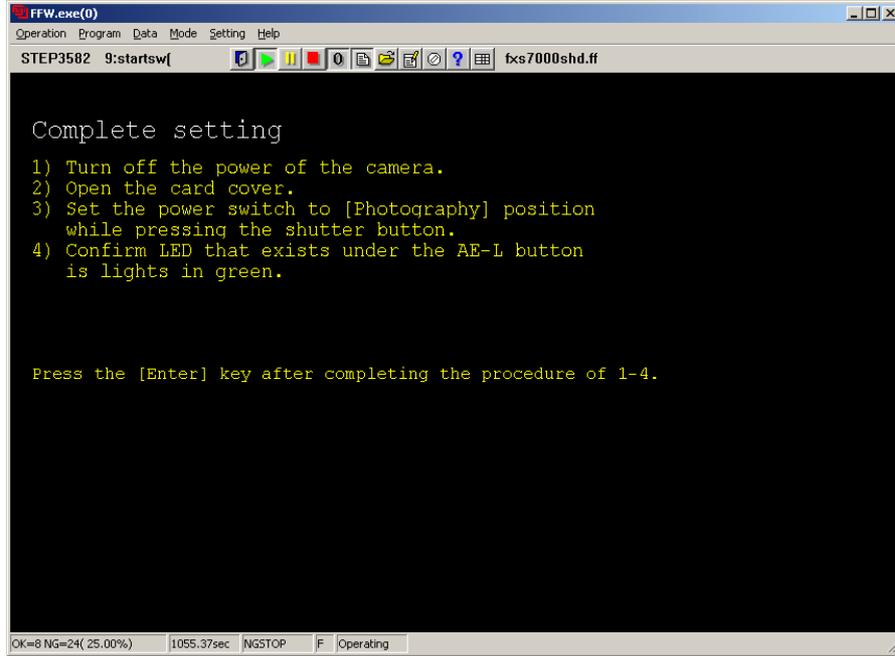


Fig.68

---> Once the adjustment results have been recorded, the completion screen appears.

<Step 12-1>

- (1) Exit the adjustment program.  
Select “Operation” -> “Exit” to exit the adjustment program.

<Step 12-2>

- (1) Replace the lens and then perform all the adjustments again.

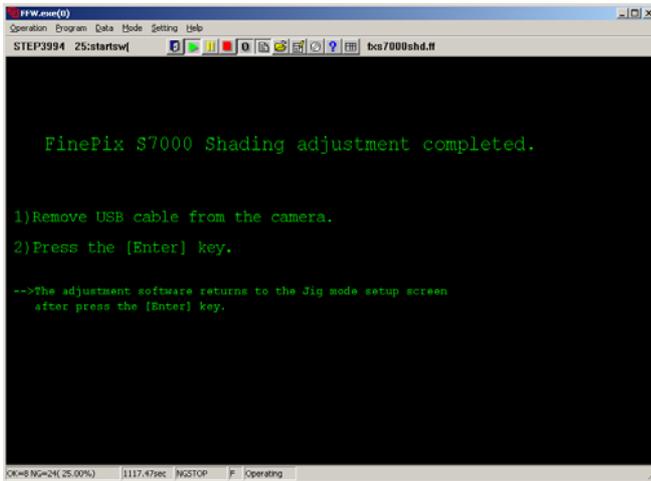


Fig.69

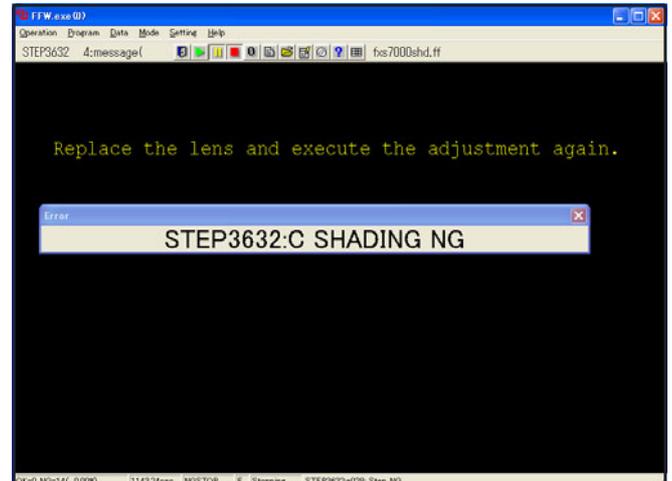


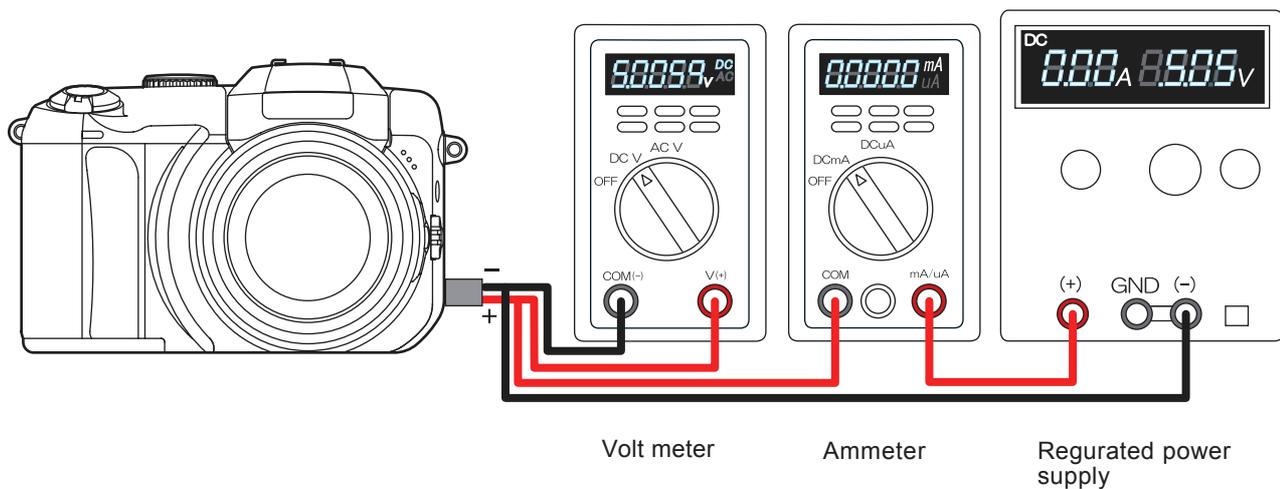
Fig.70

## 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



### 5-3. Inspection and Factory Settings

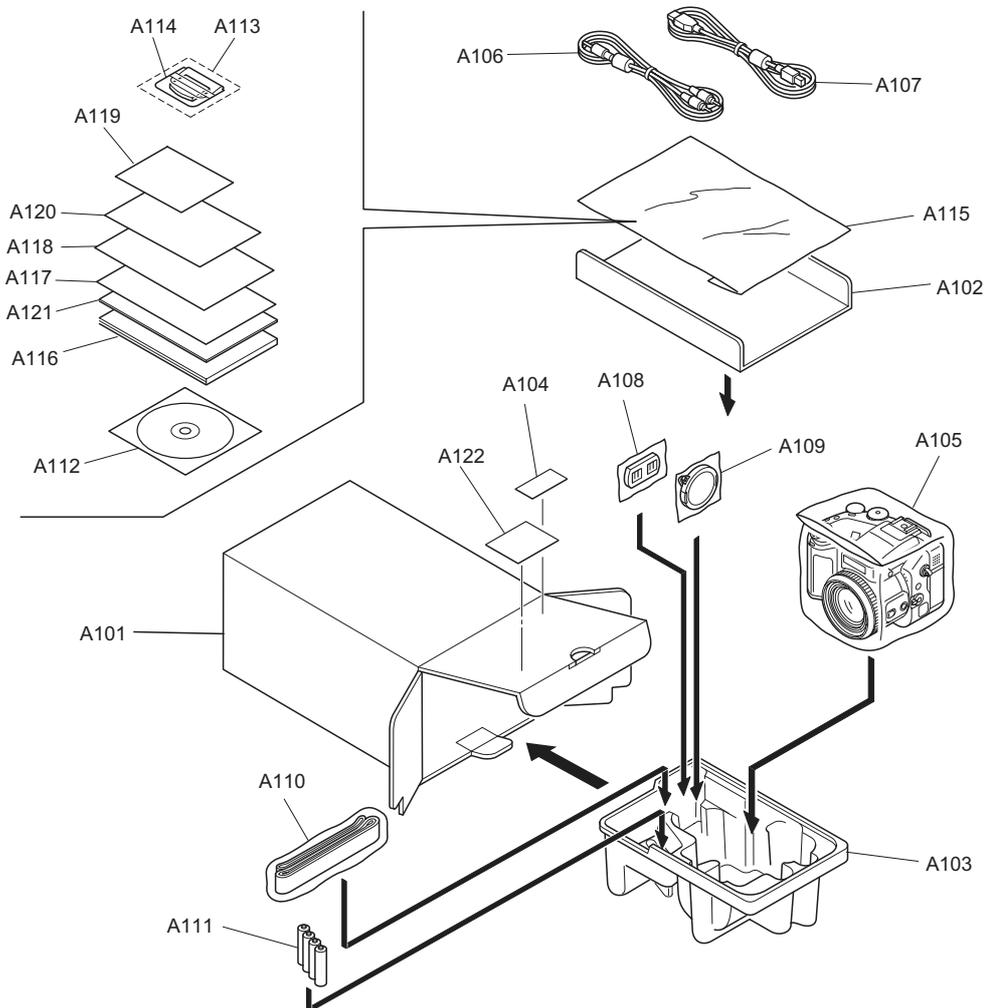
Sequemnce	Item	Mode	Preparations for adjustment (measurement points, subject, other)	Method of adjustment (VRs, waveforms, required values)	Measuring equipment and jigs	Measurement points (VRs, positions)
1	Check appearance		Visual check of camera	No problem with click action of switches. No dust or 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	Auto photography LCD_ON	(1) Connect power cable jig (2) Set voltage. (3) Set Camera 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 4.40±0.02V. Battery warning displayed. (5) Set voltage to 3.90±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 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 650mA.	Ammeter	
12	Leak current	Power OFF	(1)Switch power OFF	(1)Maximam leak current 1mA	Ammeter	
13	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: English Pixels: 1M normal Photography mode: AUTO Date: Not set (3) Inspection battery/ inspection xD-Picture card not inserted in camera. (4) Batter y 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

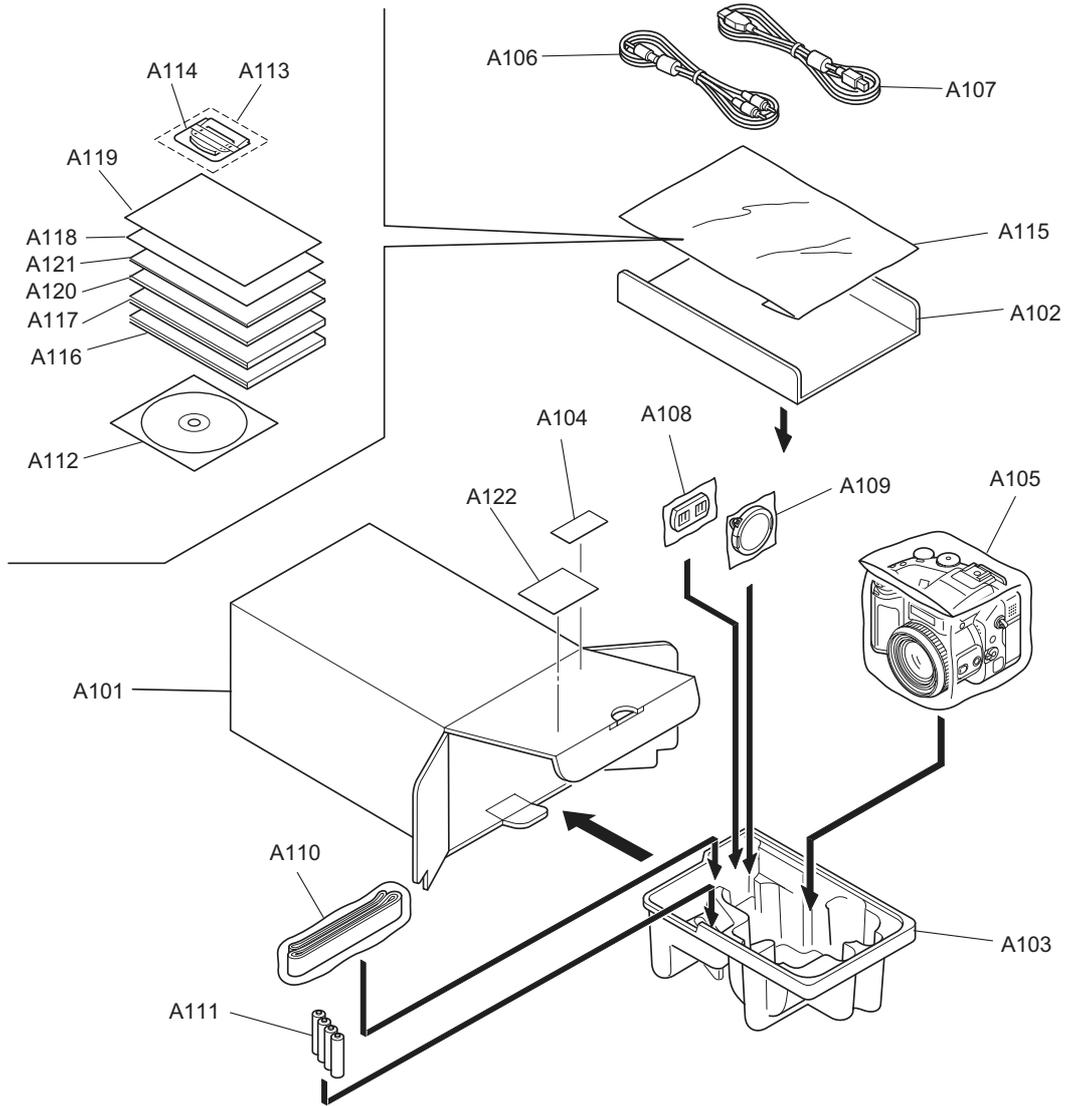
### 6-1.Packing and Accessories

#### 6-1-1.For US model



Ref No.	Parts No.	Description	Comment	Ref No.	Parts No.	Description	Comment
A101	FZ05387-100	UNITARY U.BOX		A116	BL00304-200	MANUAL S7000(ENG)	
A102	FZ05408-100	PARTITIONPAD		A117	BL00306-200	QUICK MANL(E)	
A103	FZ05406-100	SHEETMOLD		A118	BL00306-500	QUICK MANL(S)	
A104	BB12943-100	BAR CODE LABEL BLANK		A119	BB07792-101	WARRANTY US	
A105	AZF0000-321	HDPE BAG NO.12		A120	BB03538-100	IMPORTANT SAFETY	
A106	FZ04741-100	AV CABLE		A121	BL00345-200	PB MANUAL E	
A107	FZ05365-100	USB CABLE		A122	BB16758-100	DEST.LBL.US J FG	
A108	BB12402-100	LENSCAPHOLDER PP					
A109	BU01815-300	LENS CAP ASSY					
A110	BU02578-100	SHOULDER BELT ASSY					
A111	FZ04793-100	ALKALINE BATTERY					
A112	FZ05351-200	CD-ROM					
A113	BF04146-100	XDCARD 16MB ASSY					
A114	BL00209-100	CASE					
A115	AZF0000-111	BAG PLASTIC NO.10					

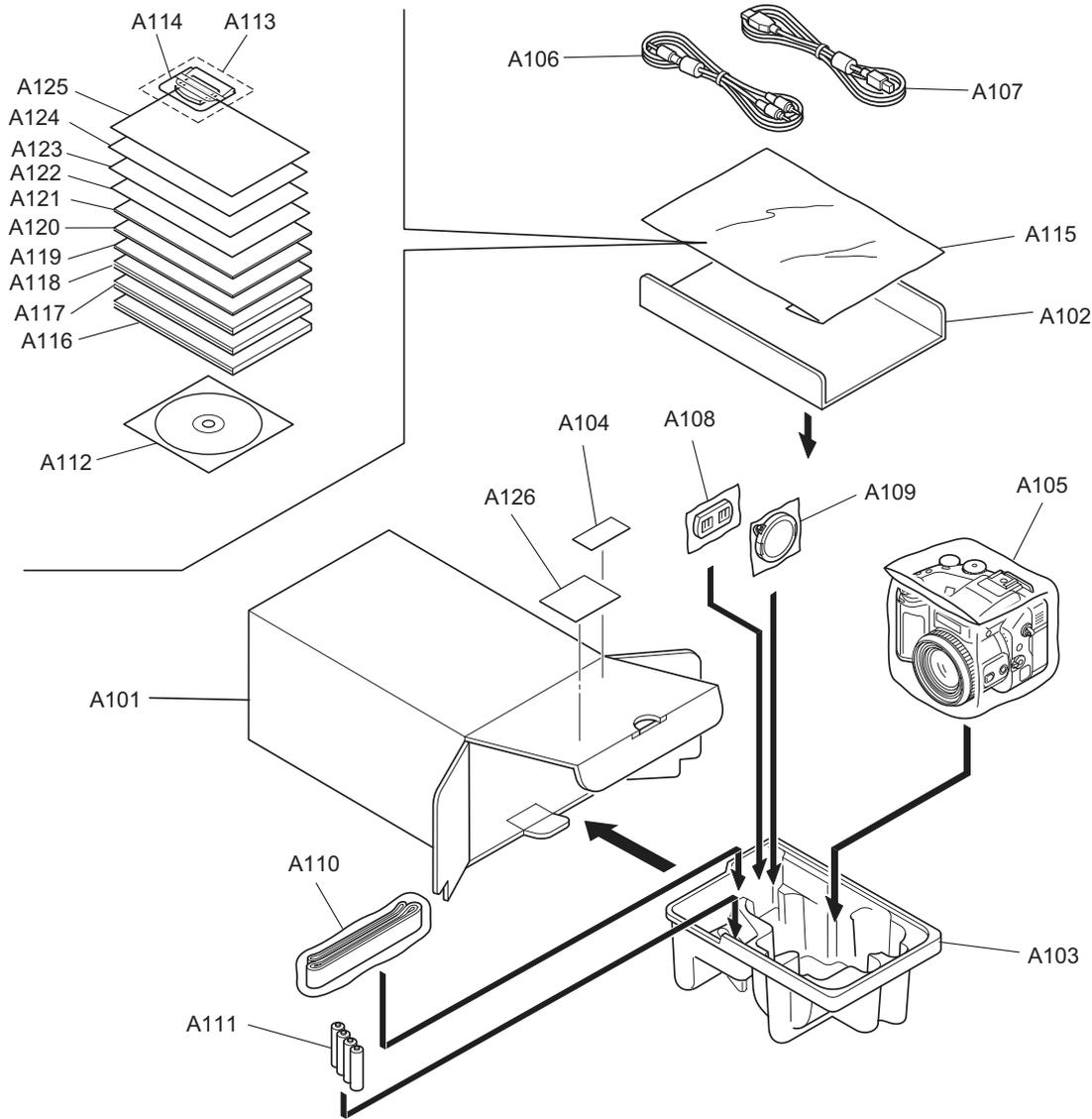
6-1-2.For CA model



Ref No.	Parts No.	Description	Comment	Ref No.	Parts No.	Description	Comment
A101	FZ05387-100	UNITARY U.BOX		A116	BL00304-200	MANUAL S7000(ENG)	
A102	FZ05408-100	PARTITIONPAD		A117	BL00304-300	MANUAL S7000(FRE)	
A103	FZ05406-100	SHEETMOLD		A118	BL00306-200	QUICK MANL(E)	
A104	BB12943-100	BAR CODE LABEL BLANK		A119	BL00306-300	QUICK MANL(F)	
A105	AZF0000-321	HDPE BAG NO.12		A120	BL00345-200	PB MANUAL E	
A106	FZ04741-100	AV CABLE		A121	BL00345-300	PB MANUAL F	
A107	FZ05365-100	USB CABLE		A122	BB16758-400	DEST.LBL.CA J FG	
A108	BB12402-100	LENSCAPHOLDER FP					
A109	BU01815-300	LENS CAP ASSY					
A110	BU02578-100	SHOULDER BELT ASSY					
A111	FZ04793-100	ALKALINE BATTERY					
A112	FZ05351-200	CD-ROM					
A113	BF04146-100	XDCARD 16MB ASSY					
A114	BL00209-100	CASE					
A115	AZF0000-111	BAG PLASTIC NO.10					

# 6. Parts List

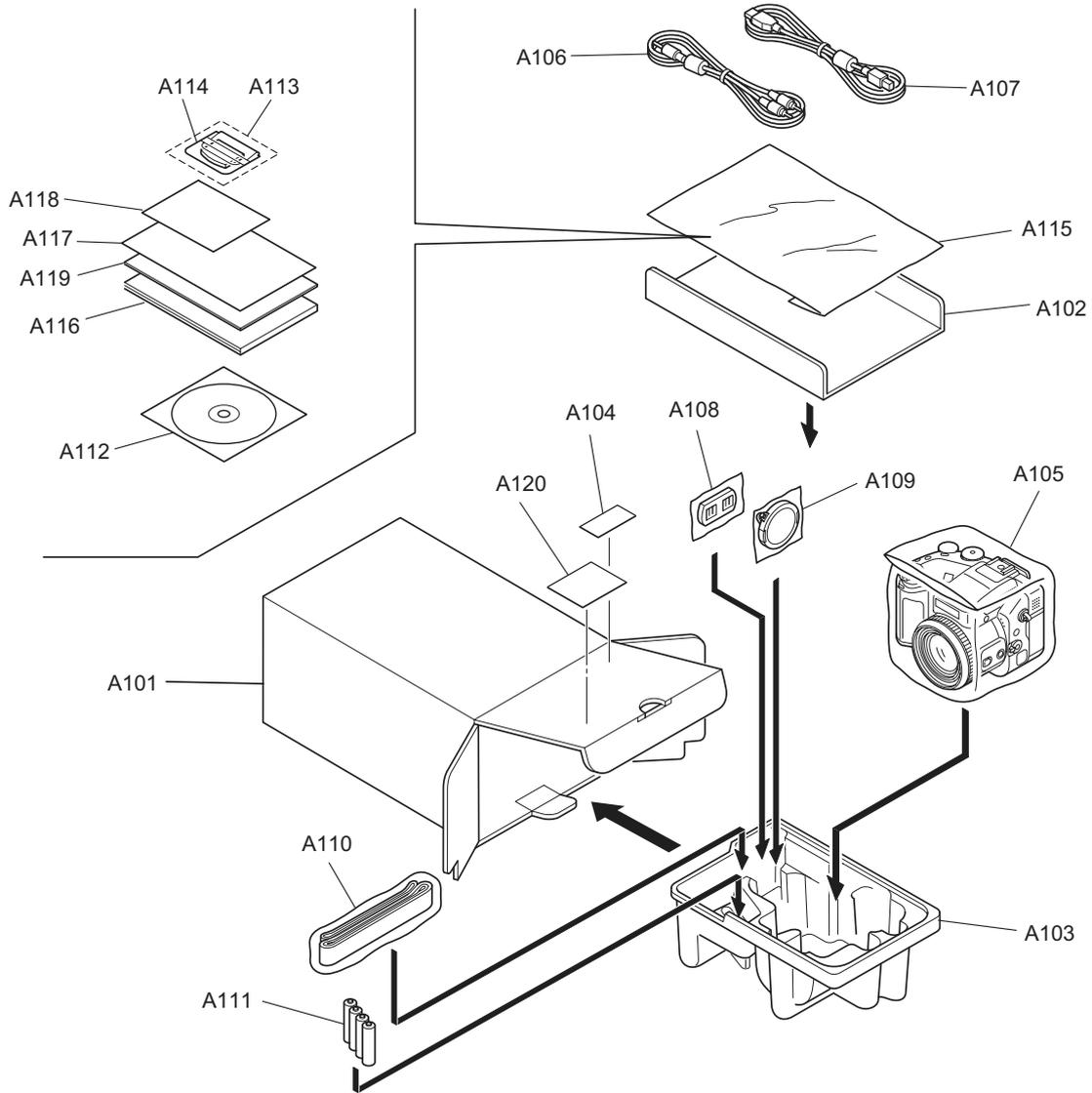
## 6-1-3.For EU model



Ref No.	Parts No.	Description	Comment
A101	FZ05387-100	UNITARY U.BOX	
A102	FZ05408-100	PARTITIONPAD	
A103	FZ05406-100	SHEETMOLD	
A104	BB12943-100	BAR CODE LABEL BLANK	
A105	AZF0000-321	HDPE BAG NO.12	
A106	FZ04741-100	AV CABLE	
A107	FZ05365-100	USB CABLE	
A108	BB12402-100	LENSCAPHOLDER PP	
A109	BU01815-300	LENS CAP ASSY	
A110	BU02578-100	SHOULDER BELT ASSY	
A111	FZ04793-100	ALKALINE BATTERY	
A112	FZ05351-200	CD-ROM	
A113	BF04146-100	XDCARD 16MB ASSY	
A114	BL00209-100	CASE	
A115	AZF0000-111	BAG PLASTIC NO.10	

Ref No.	Parts No.	Description	Comment
A116	BL00304-200	MANUAL S7000(ENG)	
A117	BL00304-300	MANUAL S7000(FRE)	
A118	BL00304-400	MANUAL S7000(GER)	
A119	BL00306-200	QUICK MANL(E)	
A120	BL00306-300	QUICK MANL(F)	
A121	BL00306-400	QUICK MANL(G)	
A122	BL00306-500	QUICK MANL(S)	
A123	BL00345-200	PB MANUAL E	
A124	BL00345-300	PB MANUAL F	
A125	BL00345-400	PB MANUAL G	
A126	BB16758-200	DEST.LBL.EU J FG	

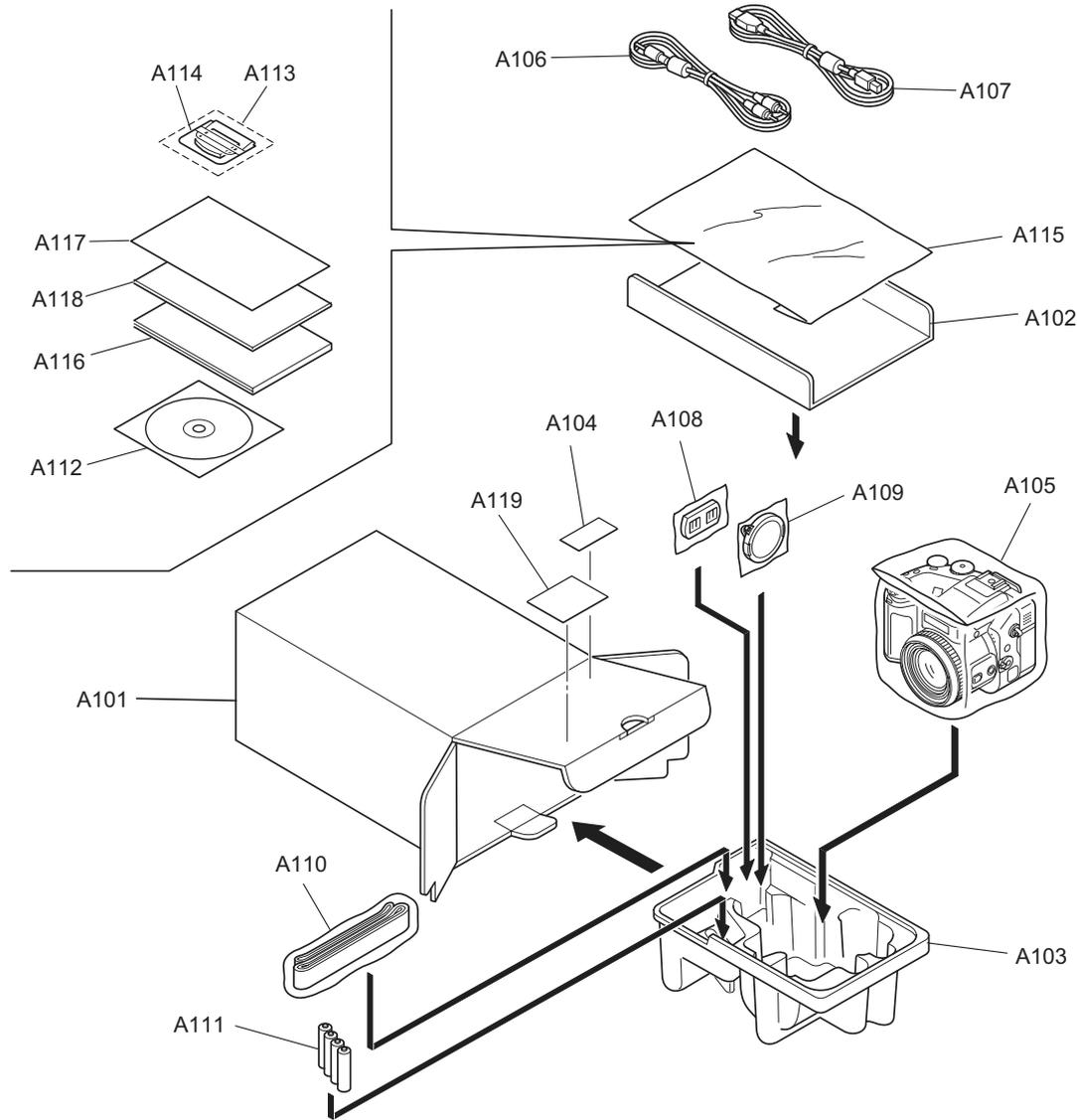
6-1-4. For EG model



Ref No.	Parts No.	Description	Comment	Ref No.	Parts No.	Description	Comment
A101	FZ05387-100	UNITARY U.BOX		A116	BL00304-200	MANUAL SU-470(ENG)	
A102	FZ05408-100	PARTITIONPAD		A117	BL00306-200	SU-470 QUICK MANL(E)	
A103	FZ05406-100	SHEETMOLD		A118	BL00176-100	H14 WARRANTY CARD EG	
A104	BB12943-100	BAR CODE LABEL BLANK		A119	BL00345-200	PB MANUAL E	
A105	AZF0000-321	HDPE BAG NO.12		A120	BB16758-300	DEST.LBL.EG J FG	
A106	FZ04741-100	AV CABLE					
A107	FZ05365-100	USB CABLE					
A108	BB12402-100	LENSCAPHOLDER FP					
A109	BU01815-300	LENS CAP ASSY					
A110	BU02578-100	SHOULDER BELT ASSY					
A111	FZ04793-100	ALKALINE BATTERY					
A112	FZ05351-200	CD-ROM					
A113	BF04146-100	XDCARD 16MB ASSY					
A114	BL00209-100	CASE					
A115	AZF0000-111	BAG PLASTIC NO.10					

# 6. Parts List

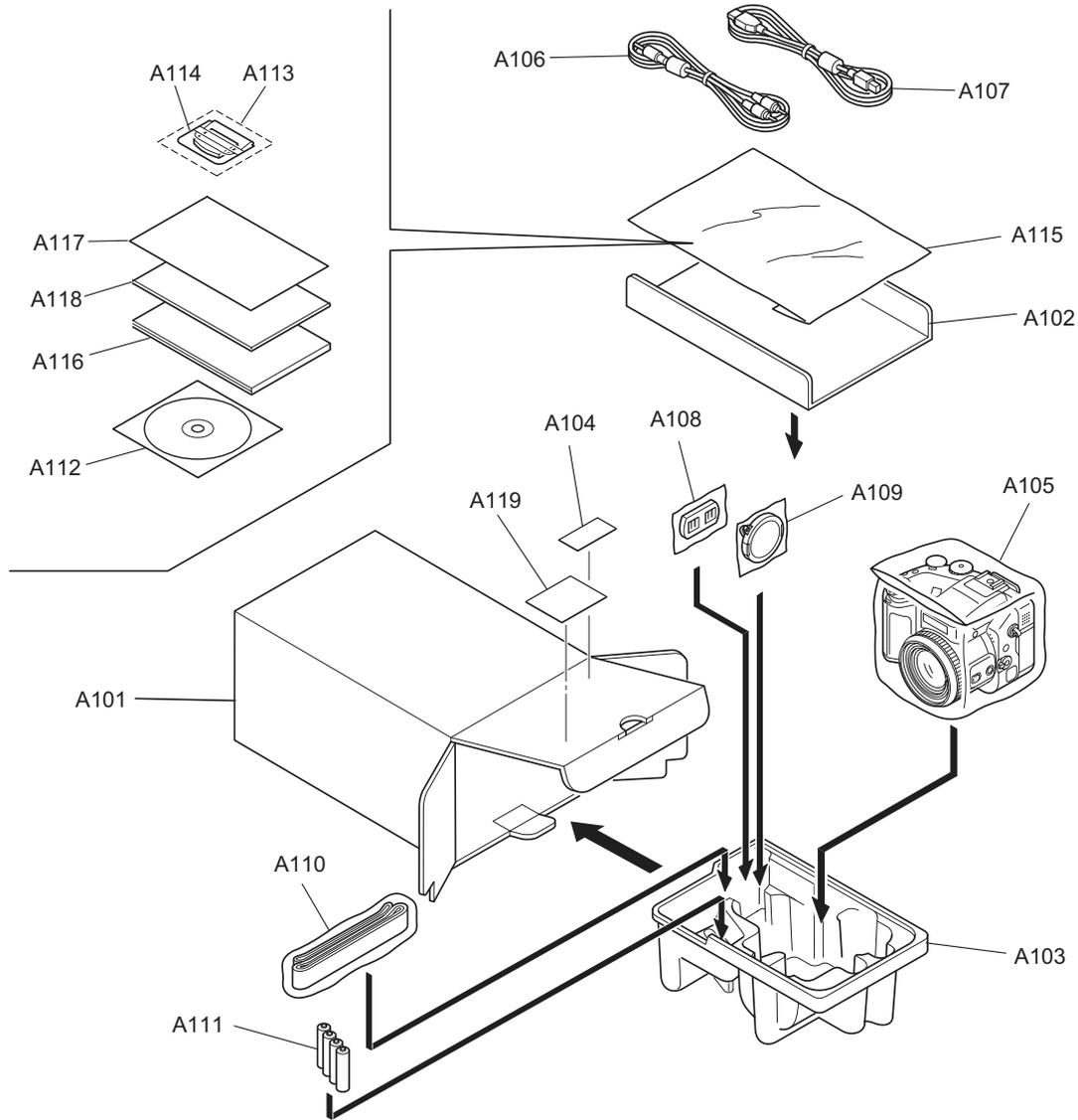
6-1-5.For GE model



Ref No.	Parts No.	Description	Comment
A101	FZ05387-100	UNITARY U.BOX	
A102	FZ05408-100	PARTITIONPAD	
A103	FZ05406-100	SHEETMOLD	
A104	BB12943-100	BAR CODE LABEL BLANK	
A105	AZF0000-321	HDPE BAG NO.12	
A106	FZ04741-100	AV CABLE	
A107	FZ05365-100	USB CABLE	
A108	BB12402-100	LENSCAPHOLDER PP	
A109	BU01815-300	LENS CAP ASSY	
A110	BU02578-100	SHOULDER BELT ASSY	
A111	FZ04793-100	ALKALINE BATTERY	
A112	FZ05351-200	CD-ROM	
A113	BF04146-100	XDCARD 16MB ASSY	
A114	BL00209-100	CASE	
A115	AZF0000-111	BAG PLASTIC NO.10	

Ref No.	Parts No.	Description	Comment
A116	BL00304-400	MANUAL S7000(GER)	
A117	BL00306-400	QUICK MANL(G)	
A118	BL00345-400	PB MANUAL G	
A119	BB16758-500	DEST.LBL.GE J FG	

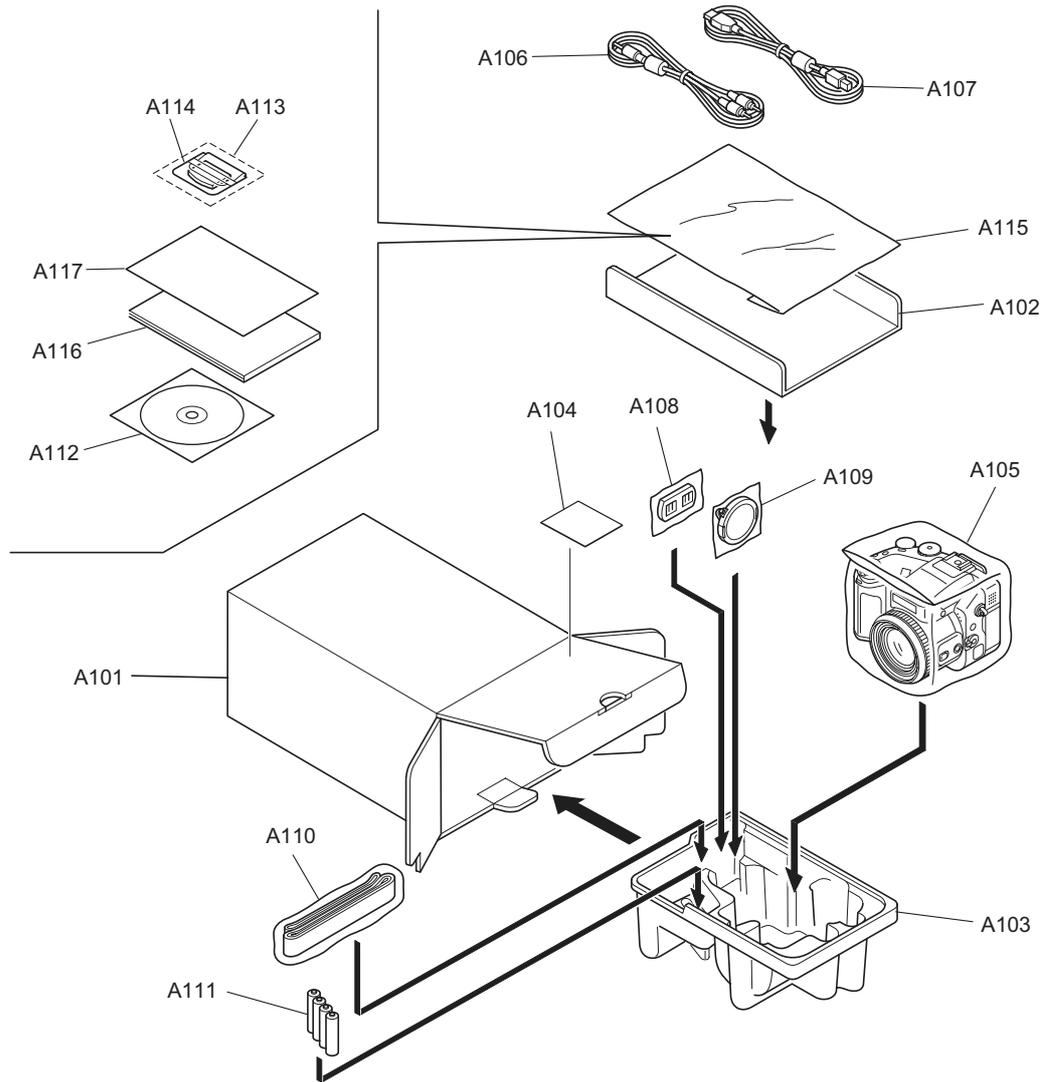
6-1-6.For AS model



Ref No.	Parts No.	Description	Comment	Ref No.	Parts No.	Description	Comment
A101	FZ05387-100	UNITARY U.BOX		A116	BL00304-200	MANUAL S7000(ENG)	
A102	FZ05408-100	PARTITIONPAD		A117	BL00306-200	QUICK MANL(E)	
A103	FZ05406-100	SHEETMOLD		A118	BL00345-200	PB MANUAL E	
A104	BB12943-100	BAR CODE LABEL BLANK		A119	BB16758-600	DEST.LBL.AS J FG	
A105	AZF0000-321	HDPE BAG NO.12					
A106	FZ04741-100	AV CABLE					
A107	FZ05365-100	USB CABLE					
A108	BB12402-100	LENSCAPHOLDER FP					
A109	BU01815-300	LENS CAP ASSY					
A110	BU02578-100	SHOULDER BELT ASSY					
A111	FZ04793-100	ALKALINE BATTERY					
A112	FZ05351-200	CD-ROM					
A113	BF04146-100	XDCARD 16MB ASSY					
A114	BL00209-100	CASE					
A115	AZF0000-111	BAG PLASTIC NO.10					

# 6. Parts List

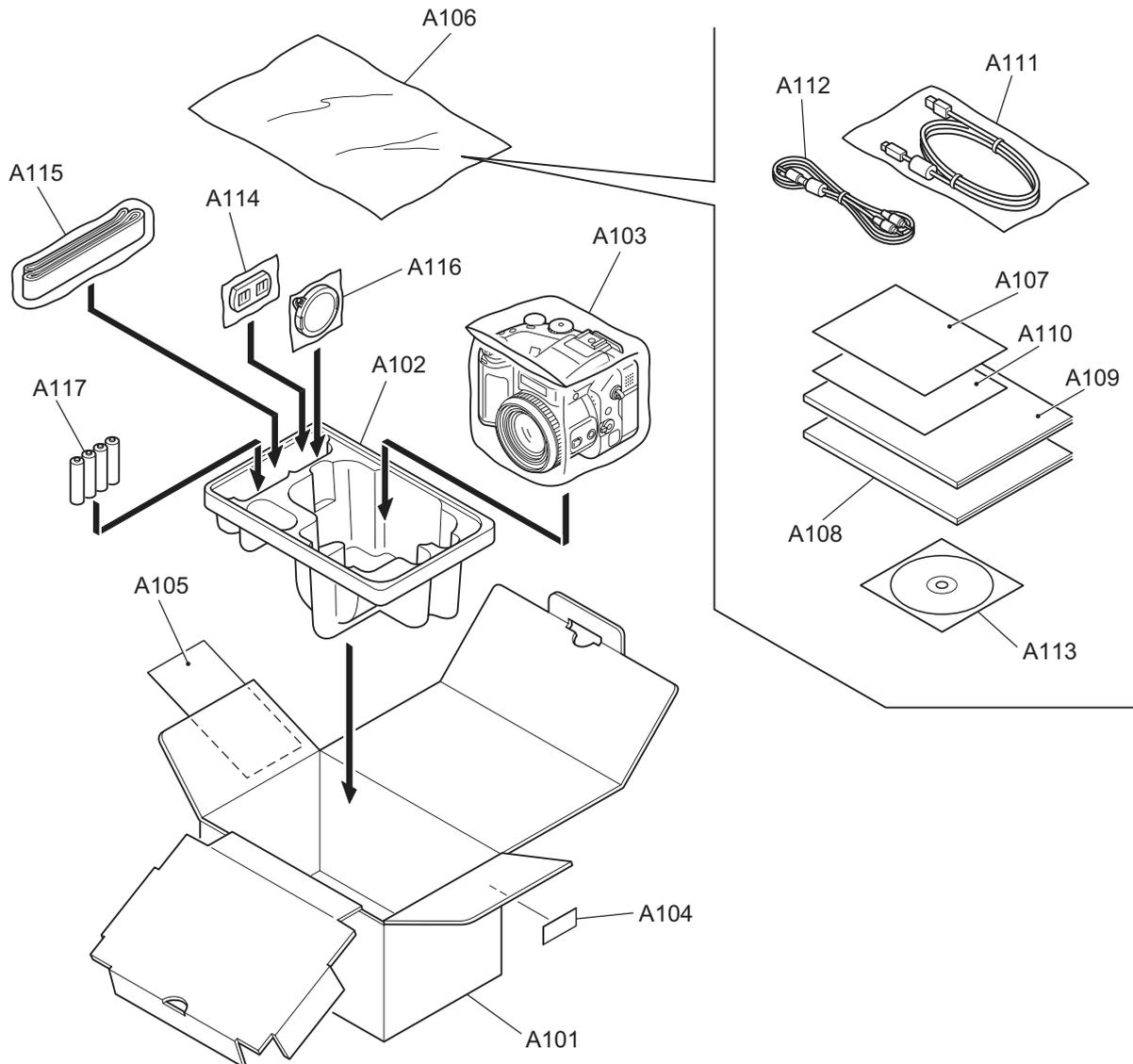
6-1-7.For CH model



Ref No.	Parts No.	Description	Comment
A101	FZ05387-200	UNITARYBOX	
A102	FZ05408-100	PARTITIONPAD	
A103	FZ05406-100	SHEETMOLD	
A104	BB06392-100	LABEL PLAIN 2	
A105	AZF0000-321	HDPE BAG NO.12	
A106	FZ04741-100	AV CABLE	
A107	FZ05365-100	USB CABLE	
A108	BB12402-100	LENSCAPHOLDER	FP
A109	BU01815-300	LENS CAP ASSY	
A110	BU02578-100	SHOULDER BELT ASSY	
A111	FZ04793-100	ALKALINE BATTERY	
A112	FZ05351-201	CD-ROM	
A113	BF04146-100	XDCARD 16MB ASSY	
A114	BL00209-100	CASE	
A115	AZF0000-111	BAG PLASTIC NO.10	

Ref No.	Parts No.	Description	Comment
A116	BL00304-600	MANUAL S7000(CHA)	
A117	BL00345-600	PB MANUAL (CH)	

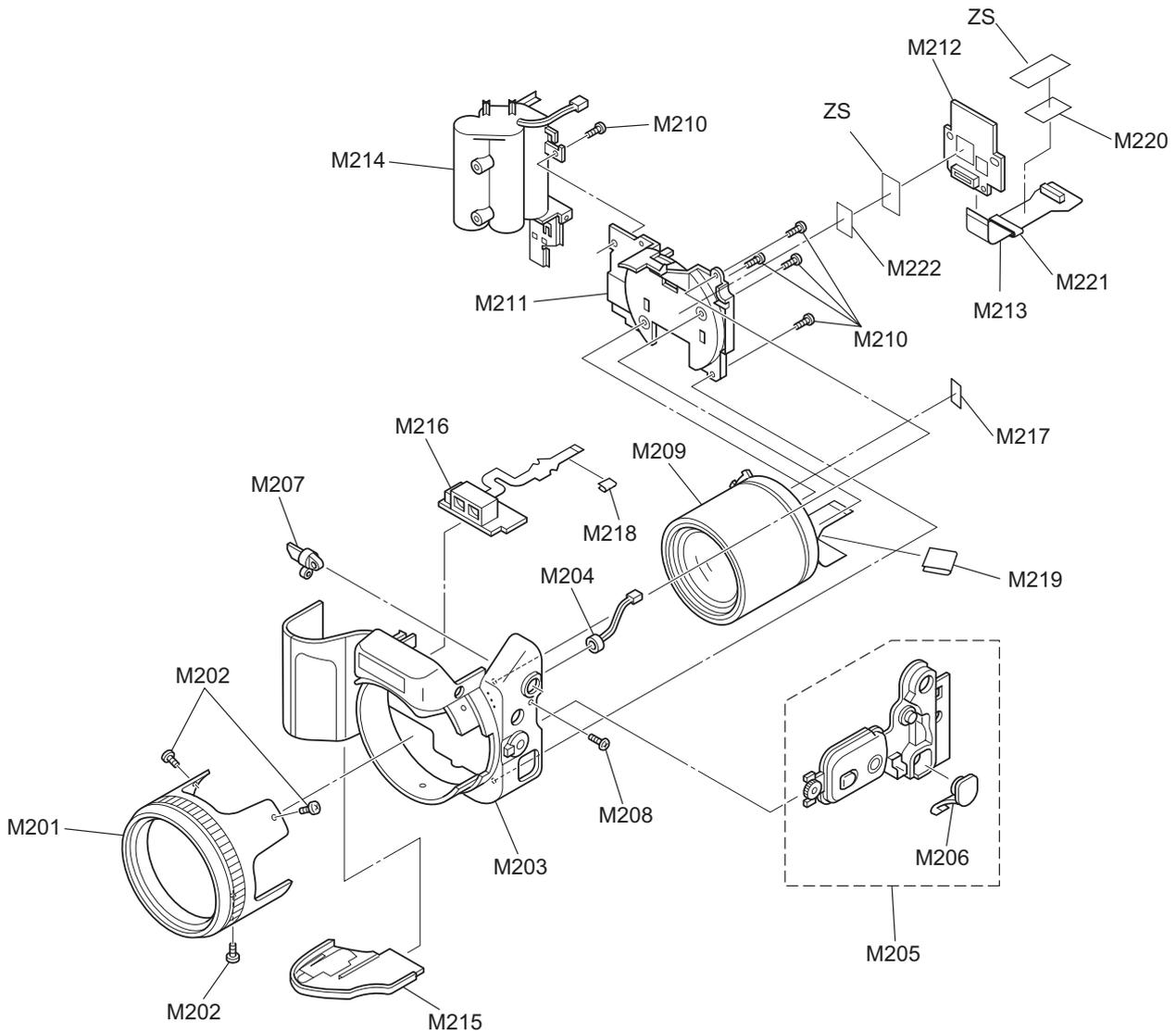
6-1-8.For JP model



Ref No.	Parts No.	Description	Comment	Ref No.	Parts No.	Description	Comment
A101	FZ05386-100	UNITARYBOX		A116	BL00304-101	MANUAL S7000(JP)	
A102	FZ05407-100	PARTITIONPAD		A117	BL00305-100	I/F MANUAL(JP)	
A103	FZ05406-100	SHEETMOLD		A118	BL00190-100	SAFETY INSTRUCTION	
A104	BB12943-100	BAR CODE LABEL BLANK		A119	BB12944-100	WARRANTY CARD	
A105	AZF0000-321	HDPE BAG NO.12					
A106	FZ04741-100	AV CABLE					
A107	FZ05241-100	USB CABLE					
A108	BB12402-100	LENSCAPHOLDER FP					
A109	BU01815-300	LENS CAP ASSY					
A110	BU02578-100	SHOULDER BELT ASSY					
A111	FZ01782-100	ALKALINE BATTERY					
A112	FZ05351-200	CD-ROM					
A113	BF04146-100	XDCARD 16MB ASSY					
A114	BL00209-100	CASE					
A115	AZF0000-111	BAG PLASTIC NO.10					

# 6. Parts List

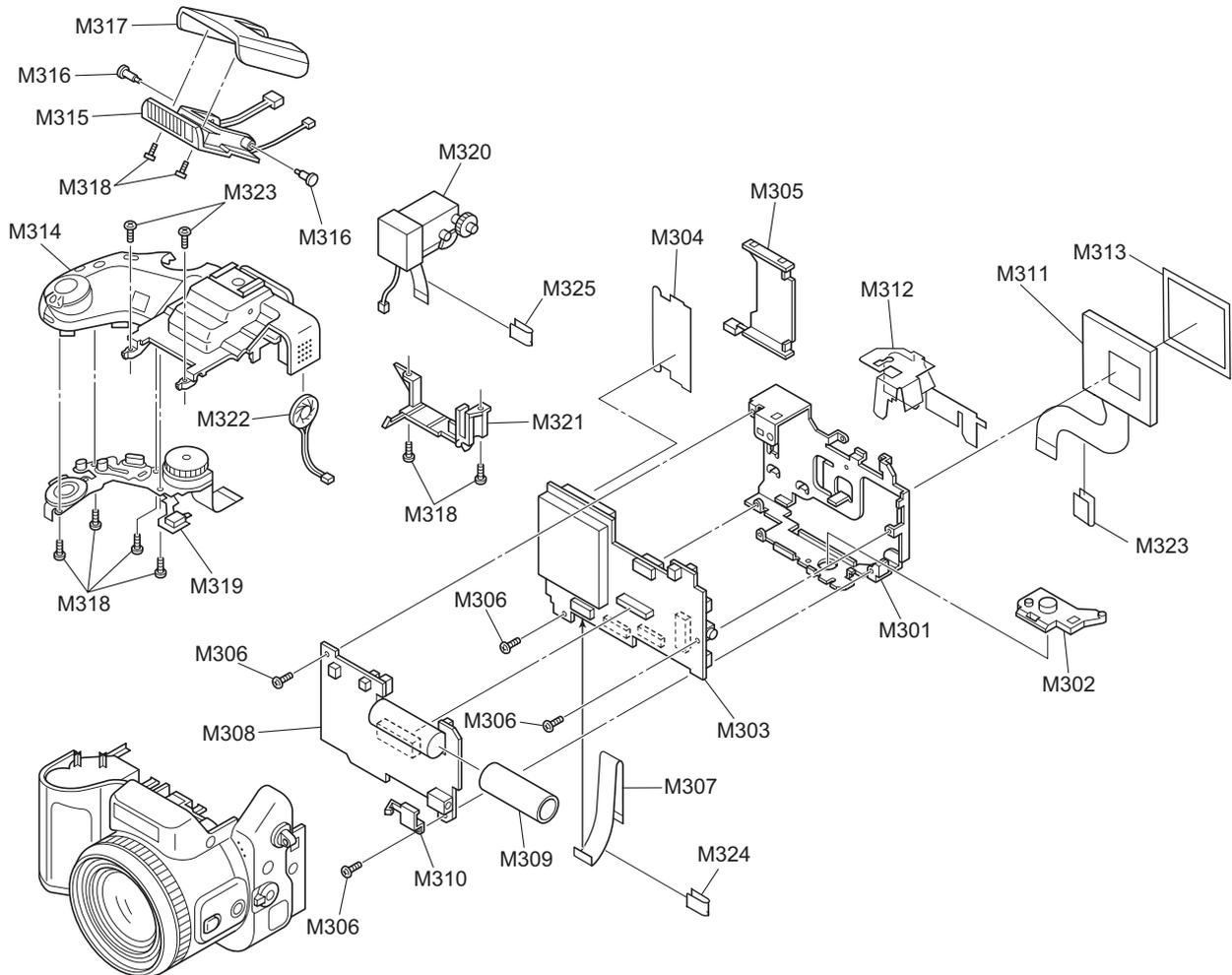
## 6-2.Cabinet F block



Ref No.	Parts No.	Description	Comment
M201	BU02856-100	LENS CABI ASSY	
M202	BB13148-100	BL SCREW M1.7X3.5BC	
M203	BU02853-100	F CABI ASSY	
M204	FZ04690-100	MIC ASSY	
M205	FZ05223-100	SIDEMODULE UNIT	
M206	UBFZZ0020A	DC JACK COVER	
M207	BB13205-100	STRAP R	
M208	BB13148-200	BL SCREW M1.7X5.0BC	
M209	BU02933-100	Y-525 LENS CONST	
M210	BB13149-200	BT2P1.7X5.0BC GN	
M211	BU02974-100	LENS FRAME ASSY	
M212	CB1134-A100	CAM PWB ASSY	
M213	CB1135-A100	MC PWB ASSY	
M214	FZ05222-100	BATT HOLDER UNIT	
M215	BU02857-100	BATTERY LID ASSY	

Ref No.	Parts No.	Description	Comment
M216	FZ05364-100	AF SENSOR UNIT	
M217	BB17205-100	GASKET CCD 2	
M218	FZ05587-100	EMISHEET AF	
M219	FZ05613-100	EMISHEET LENS	
M220	FZ05044-100	BUSTERAID	
M221	FZ05585-100	FERRITECORE	
M222	FZ05609-100	EMISHEET CAM	

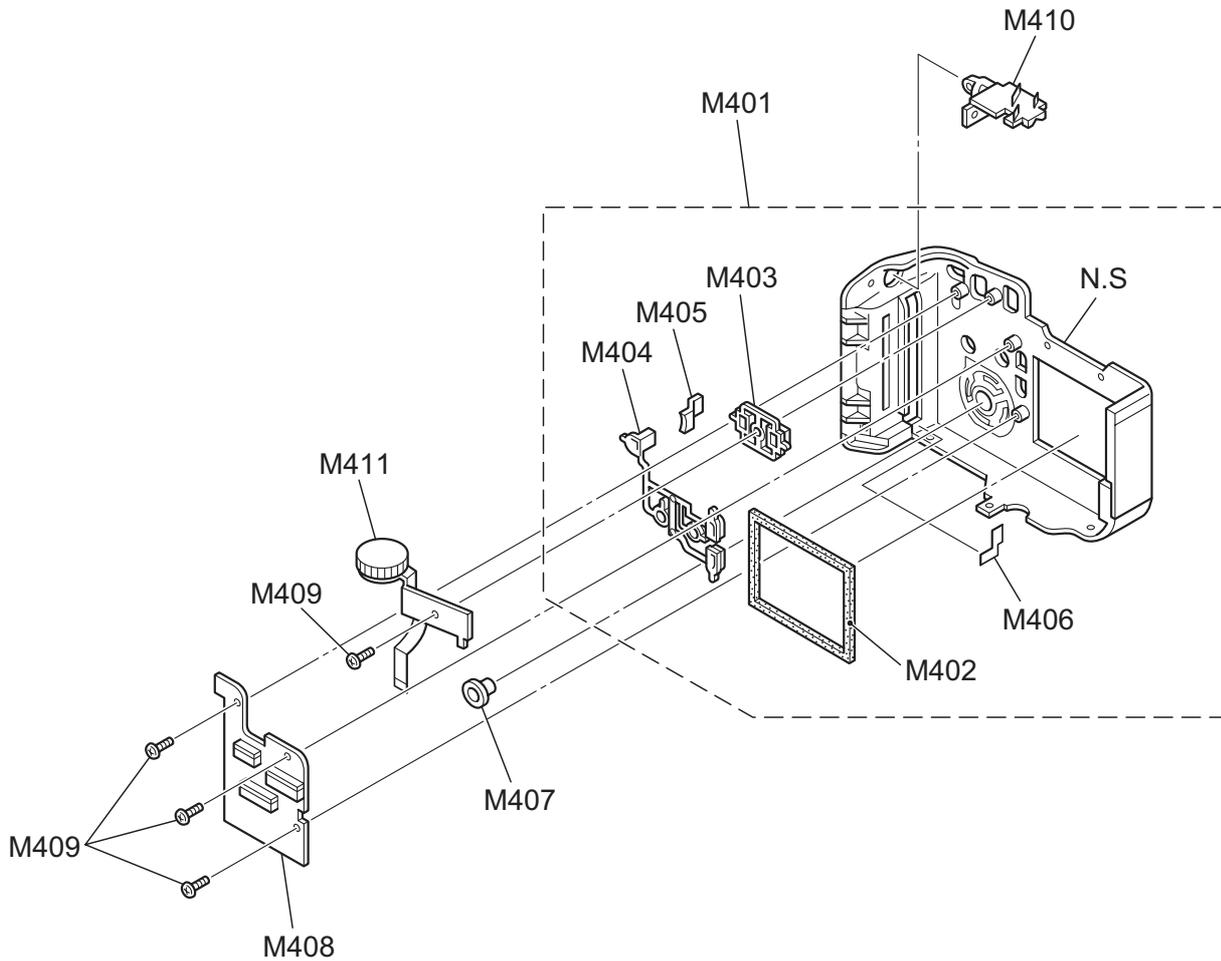
## 6-3. Internal parts



Ref No.	Parts No.	Description	Comment	Ref No.	Parts No.	Description	Comment
M301	BB16308-100	LCD FRAME		M316	BB11621-100	ST SHAFT	
M302	BB13207-100	TRIPODSCREW		M317	BB13193-300	ST TOP PC	
M303	CB1131-A100	MAIN PWB ASSY		M318	BB13149-100	BT2P1.7X4.0BC GN	
M304	BB13177-100	SHEETCF PC		M319	FZ04694-500	MODE DIAL UNIT	
M305	FZ05382-100	EJECTOR		M320	BU02935-100	EVF CONST	
M306	BB12548-100	SP SCREW M1.7X3.0		M321	BB16311-100	HOLDEREVF ABS	
M307	FZ04700-100	FFC		M322	FZ05358-100	SPEAKER ASSY	
M308	CB1132-A100	DCST PWB ASSY		M323	FZ05588-100	EMISHEETLCD	
M309	BB16310-100	INSLATINGTUBE PET		M324	FZ05590-100	EMISHEETFFC	
M310	BB13183-200	CONTACTPLT		M325	FZ05610-100	EMISHEETEVF	
M311	BF04624-100	Y525 LCD MOTHER ASSY					
M312	BB16309-100	SHEETFRAME PET					
M313	BB17202-100	LCD SHEET					
M314	BU02855-100	TOP CABI ASSY					
M315	BU02932-100	Y525 ST ASSY CONST					

# 6. Parts List

## 6-4.Cabinet R block

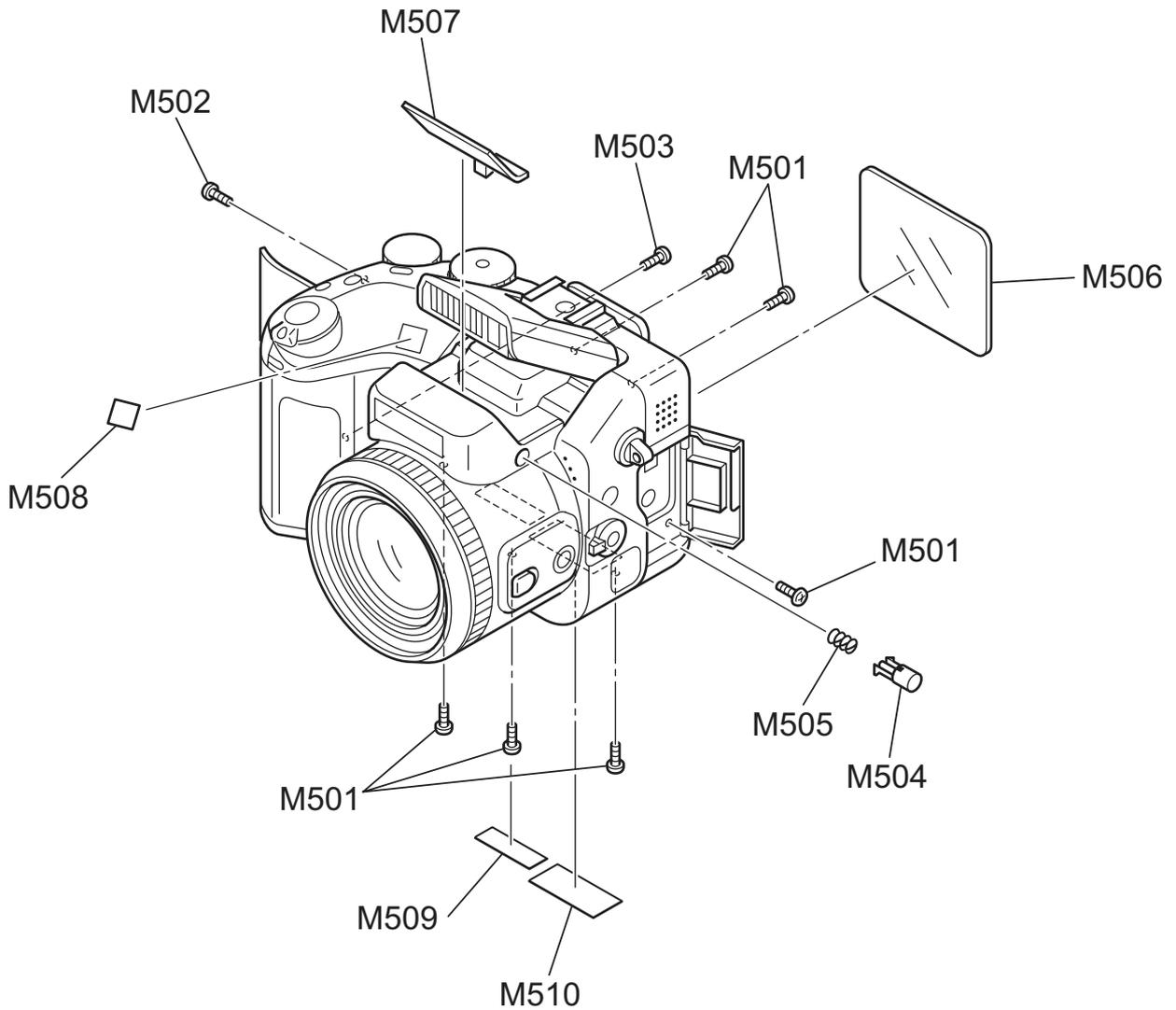


Ref No.	Parts No.	Description	Comment
M401	BU02854-100	R CABI ASSY	
M402	BB16307-100	LCD CUSHION	PE-URETHAN
M403	BB13170-100	ZOOM BUTTON	AEPS
M404	BB13172-500	REAR BUTTON	AEPS
M405	BB13174-100	LED LENS	
M406	BB13178-100	SHEET SW	
M407	BB13169-100	OK BUTTON	
M408	CB1133-A100	KEY PWB ASSY	
M409	BB13149-100	BT2P1.7X4.0BC GN	
M410	BB13206-100	STRAP L	
M411	FZ04696-101	C DIAL UNIT	

Ref No.	Parts No.	Description	Comment

## 6-5.External Parts

### 6-5-1.For US/CA/EU/EG/GE/AS model

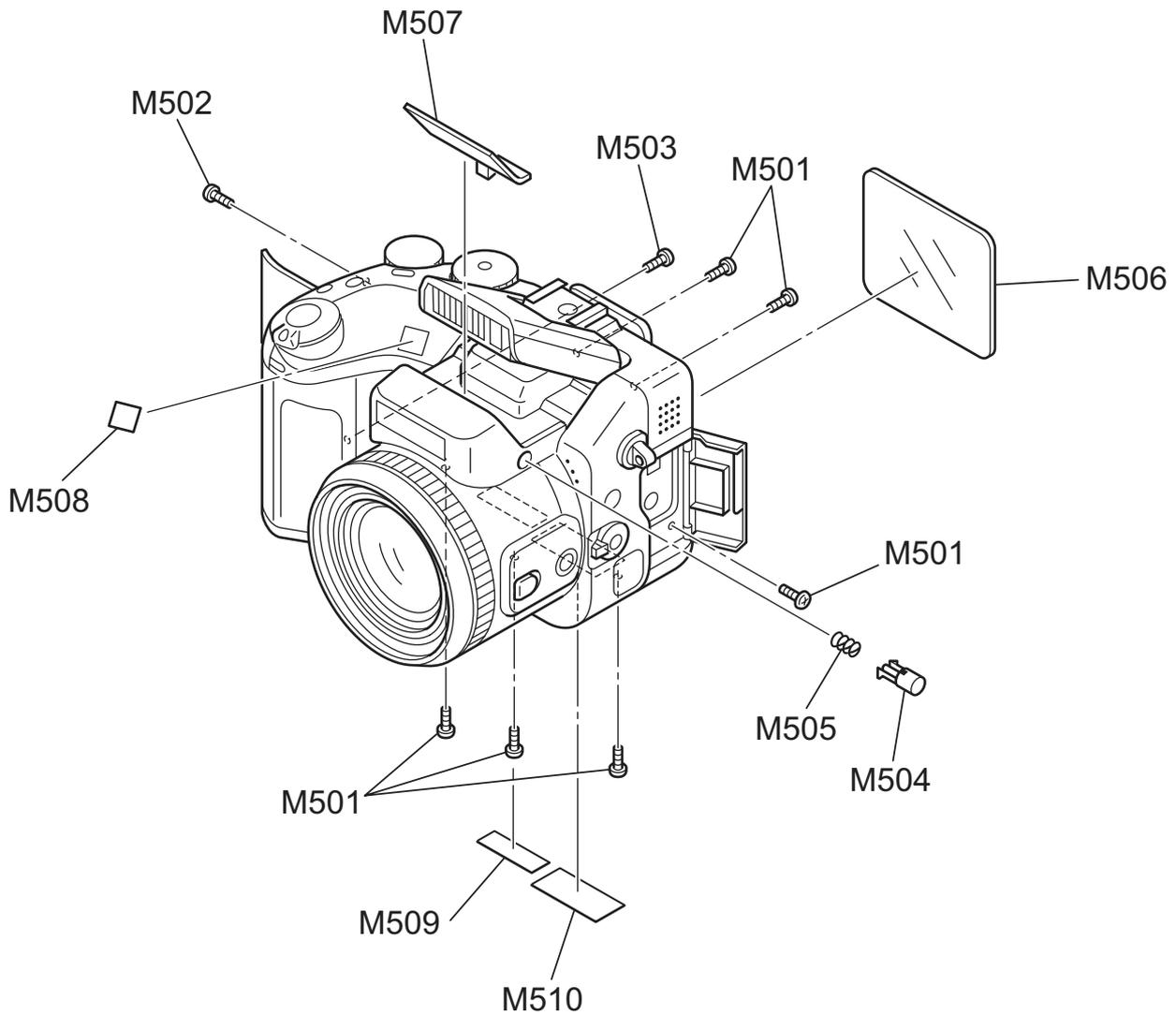


Ref No.	Parts No.	Description	Comment	Ref No.	Parts No.	Description	Comment
M501	BB13148-200	BL SCREW M1.7X5.0BC					
M502	BB13148-300	BL SCREW M1.7X8.0BC					
M503	BB13149-300	BT2P1.7X5.5BC GN					
★ M504	BB13134-200	ST BUTTON					
M505	BB13160-100	CSP(ST BUTTON)					
M506	BB16582-100	LCD WINDOW	ABS				
M507	BB13212-100	AF PLATE	ABS				
M508	BB16321-100	CCD BADGE S					
M509	BB09250-200	PL SEAL (U)					
M510	BB16323-200	PRODUCT LABEL					

★ Revised:2004/01/23

# 6. Parts List

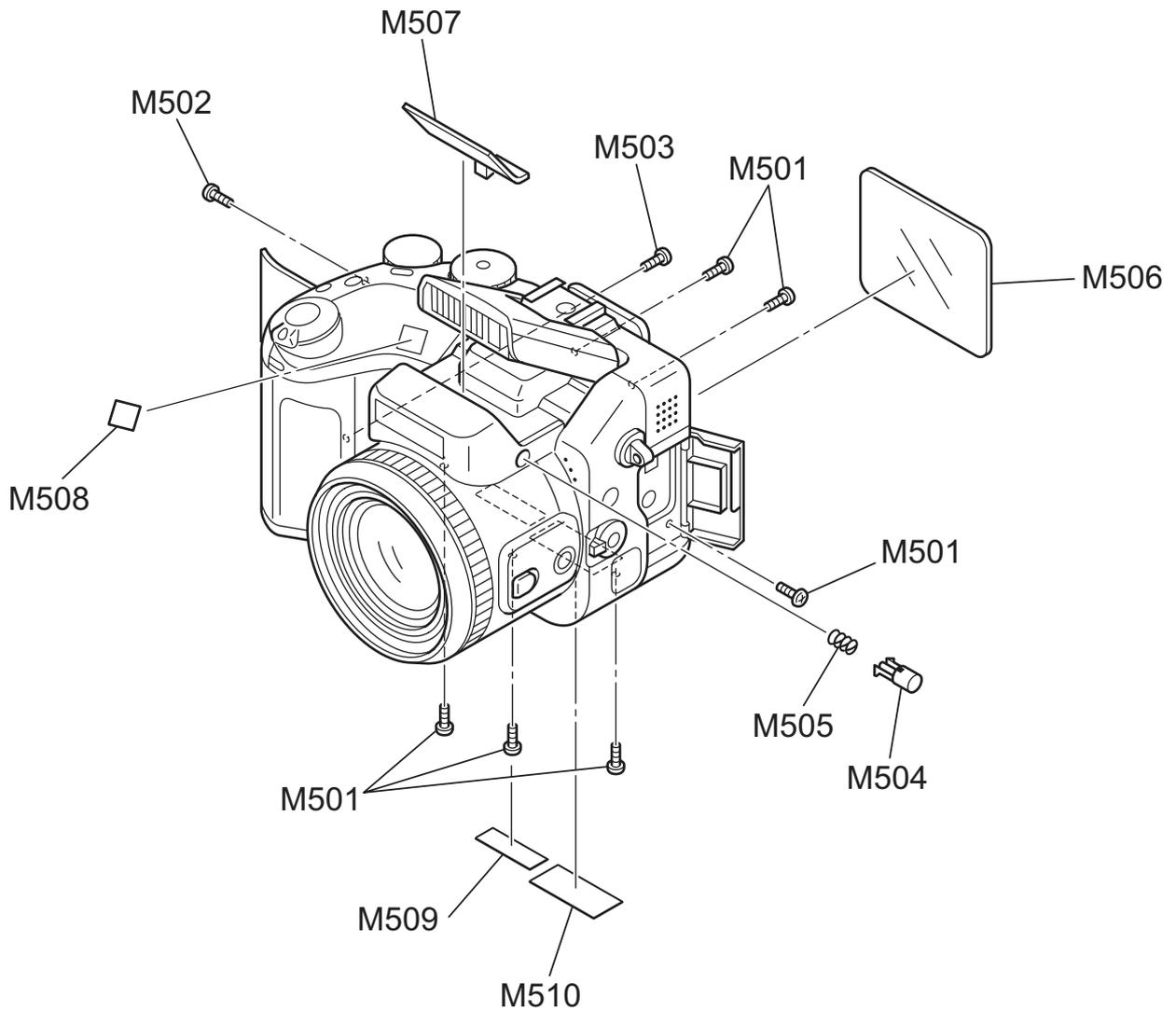
6-5-2.For CH model



Ref No.	Parts No.	Description	Comment
M501	BB13148-200	BL SCREW M1.7X5.0BC	
M502	BB13148-300	BL SCREW M1.7X8.0BC	
M503	BB13149-300	BT2P1.7X5.5BC GN	
M504	BB13134-200	ST BUTTON	
M505	BB13160-100	CSP(ST BUTTON)	
M506	BB16582-100	LCD WINDOW	ABS
M507	BB13212-100	AF PLATE	ABS
M508	BB16321-100	CCD BADGE S	
M509	BB09250-200	PL SEAL (U)	
M510	BB16323-500	PRODUCT LABEL(For CH model)	

Ref No.	Parts No.	Description	Comment
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6-5-3.For JP model



Ref No.	Parts No.	Description	Comment
M501	BB13148-200	BL SCREW M1.7X5.0BC	
M502	BB13148-300	BL SCREW M1.7X8.0BC	
M503	BB13149-300	BT2P1.7X5.5BC GN	
M504	BB13134-200	ST BUTTON	
M505	BB13160-100	CSP(STBUTTON)	
M506	BB16582-100	LCD WINDOW	ABS
M507	BB13212-100	AF PLATE	ABS
M508	BB16321-100	CCD BADGE S	
M509	BB09250-100	PL SEAL (J)	
M510	BB16323-100	PRODUCT LABEL(For JP model)	

Ref No.	Parts No.	Description	Comment
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# 6. Parts List

## 6-8.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 from the parts list specified in the circuit or the components used on the set.

Ref.No.	Part No.	Description
*****		
<b>CB1136-A100 CCD PWB ASSY</b>		
*****		
[CONNECTOR]		
CN11	FGC141-0401	CONNECTOR CJ 40P BN 0.5MM PV
*****		
<b>CB1134-A100 CAM PWB ASSY</b>		
*****		
[CONNECTOR]		
CN100	FGB071-0451	CONNECTOR CJ 45P FN 0.3MM NN
CN101	FGC142-0401	CONNECTOR CJ 40P BN 0.5MM RV
*****		
<b>CB1135-A100 MC PWB ASSY</b>		
*****		
[CONNECTOR]		
CN30	FGC141-0501	CONNECTOR CJ 50P BN 0.5MM PV
*****		
<b>CB1131-A100 MAIN PWB ASSY</b>		
*****		
[CONNECTOR]		
CN200	FGB103-0221	CONNECTOR CJ 22P FN 0.5MM NH
CN201	FGB031-0101	CONNECTOR CJ 10P FN 0.5MM NV
CN202	FGC142-0501	CONNECTOR CJ 50P BN 0.5MM RV
CN203	FGB105-0111	CONNECTOR CJ 11P FN 0.5MM NH
CN204	FGY067-0201	CONNECTOR CJ 20P B 1MM NN
CN205	FGY073-0501	CONNECTOR CJ 50P SB 0.63MM NH
CN350	FGB056-0241	CONNECTOR CJ 24P FN 0.5MM NH
CN400	FGA129-0021	CONNECTOR CJ 2P SN 1MM RH
CN401	FGA161-0021	CONNECTOR CJ 2P RN 1.0MM RH
CN750	FZ05344-100	JACKUSB MINI-B
CN800	FGC125-0701	CONNECTOR CJ 70P BN 0.5MM PV
CN850	FGB106-0201	CONNECTOR CJ 20P FN 0.5MM NH
CN852	FGB016-0241	CONNECTOR 24P FPC 0.5MM
J200	FZ04344-100	JACKMini 4P
[BATTERY]		
BT300	FZ04435-100	BATTERY 3.3V 2.3MAH
[CAPACITOR]		
C612	FAA54-227KN	LEADE.CAP LA 220MF 340V K 13.2

Ref.No.	Part No.	Description
*****		
<b>CB1132-A100 DCST PWB ASSY</b>		
*****		
[FUSE]		
△ F500	FP00039-253	FUSE 2.5A 32V UL
△ F501	FP00018-253	FUSE 2.5A 125V JIS
△ F502	FP00039-253	FUSE 2.5A 32V UL
△ F503	FP00039-253	FUSE 2.5A 32V UL
△ F504	FP00039-153	FUSE 1.5A 32V UL
△ F505	FP00039-502	FUSE500MA 32V UL
△ F506	FP00039-752	FUSE750MA 32V UL
[CONNECTOR]		
CN500	FGA116-0021	CONNECTOR CJ 2P SN 1.5MM PH
CN501	FGA096-0021	CONNECTOR CJ 2P RN 1.0MM PH
CN502	FGC143-0701	CONNECTOR CJ 70P BN 0.5MM RV
CN600	FGA113-0021	CONNECTOR CJ 2P RN 1.5MM PH
CN602	FGA157-0041	CONNECTOR LJ 4P SN 2.0MM RV
CN603	FGA058-0021	CONNECTOR CJ 2P RN 1.25MM PN
J500	FZ02412-100	JACKPOWER
*****		
<b>CB1133-A100 KSW PWB ASSY</b>		
*****		
[SWITCH]		
SW900	FZ01045-100	DETECTOR SWITCH 1P
SW901	FZ03055-100	TACT SWITCH 1P
SW902	FZ03055-100	TACT SWITCH 1P
SW903	FZ03055-100	TACT SWITCH 1P
SW904	FZ03055-100	TACT SWITCH 1P
SW905	FZ03055-100	TACT SWITCH 1P
SW906	FZ03055-100	TACT SWITCH 1P
SW907	FZ03055-100	TACT SWITCH 1P
SW908	FZ02630-100	TACT SWITCH 1P
SW909	FZ02630-100	TACT SWITCH 1P
SW910	FZ02630-100	TACT SWITCH 1P
SW911	FZ02630-100	TACT SWITCH 1P
[CONNECTOR]		
CN900	FGB103-0221	CONNECTOR CJ 22P FN 0.5MM NH
CN901	FGB106-0081	CONNECTOR CJ 8P FN 0.5MM NH
CN902	FGB103-0241	CONNECTOR CJ 24P FN 0.5MM NH

<MEMO>

## 7. Appendix

### 7-1. Function of display for Firmware Version

The function to display the version is installed in FinePix S7000.

The version the camera equipped with of the firmware can be displayed only by operating the main body of the camera.

[Procedure]

1. The camera is made a play mode.
2. The power supply switch is turned on while pressing the shutter button.
3. The "SETUP" display is selected, and changes to a DATE/TIME set mode.
4. The DATE/TIME setting is matched as follows.(fig.1)

2040 . 2. 29  
11 : 59 PM

5. After the date is set, keeps pressing the shutter button for three seconds or more.
6. The version of the farmware is displayed in the upper right of LCD only while the shutter button is being done (Fig.2).

Example of display :1.07

\* It is shown that the version of the farmware is 1.07.

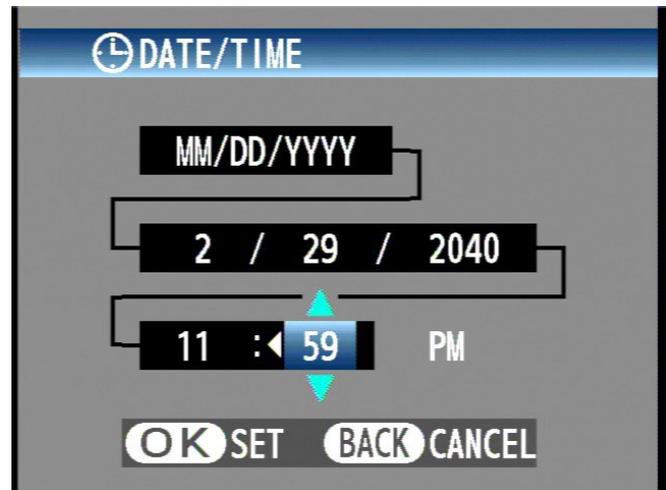


fig.1

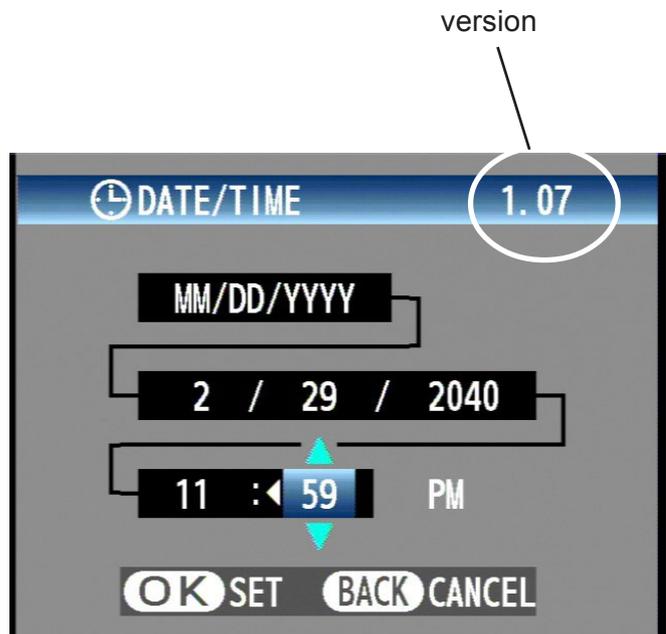


fig.2





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