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I . SPECIFICATION

1. Camera Specification

Image Sensor	Type	1/1.8" CCD
	Effective Pixel	Approx. 5.0 Mega-pixel
	Total Pixel	Approx. 5.3 Mega-pixel
Lens	Focal Length	Schneider Lens f = 7.7 ~ 23.1mm (35mm film equivalent : 38 ~ 114mm)
	F No.	F2.7 ~ F4.9
	Digital Zoom	Still Image mode : 1.0X ~ 4.0X Play mode : 1.0X ~ 10.0X (depends on image size)
Viewfinder	Optical Viewfinder	Real image optical viewfinder
	LCD Monitor	1.5" color TFT LCD
Focusing	Type	TTL auto focus, Manual focus
	Range	Normal : 80cm ~ infinity Macro : 30cm ~ 80cm, Super Macro : 6cm ~ 30cm(Wide only)
Shutter	Type	Mechanical and Electronic shutter
	Speed	1 ~ 1/2,000sec. (Manual, Night Mode : 16 ~ 1/2,000 sec.)
Exposure	Control	Program AE, Shutter Priority AE, Aperture Priority AE or Manual Exposure Metering : Multi, Spot
	Compensation	±2EV (0.5EV steps)
	ISO Equivalent	Auto, 50, 100, 200, 400
Flash	Modes	Auto, Auto & Red-eye reduction, Slow sync, Fill-in flash, Flash off
	Range	Wide : 0.3 ~ 3.0m, Tele : 0.3 ~ 2.0m
	Recharging Time	Approx. 7 sec.
Sharpness		Soft, Normal, Vivid
Effect		Normal, B&W, Sepia, RGB
White Balance		Auto, Daylight, Cloudy, Fluorescent H, Fluorescent L, Tungsten, Custom
Voice Recording		Voice Recording (max. 1 hours) Voice Memo in Still Image (max. 10 sec.)
Date Imprinting		Date, Date&Time, Off (user selectable)
Shooting	Still Image	Modes : Auto, Program, A,S,M, Night Scene, MySet, Scene * Scene : Portrait, Children, Landscape, Close-up, Sunset, Dawn, Backlight, Fireworks, Beach & Snow Continuous : Single, Continuous Self-timer : 2 sec., 10 sec., Remocon
	Movie Clip	With Audio (recording time : memory capacity dependent) Size : 640x480, 320x240 Frame rate : 30fps, 15fps
Storage	Media	SD / MMC Card (up to 512MB guaranteed)
	File Format	Still Image : TIFF, JPEG(DCF), EXIF 2.2, DPOF 1.1, PictBridge 1.0 Movie Clip : AVI(MJPEG) Voice : WAV
	Image Size	2560 : 2560x1920 2272 : 2272x1704 2048 : 2048x1536 1600 : 1600x1200 1024 : 1024x768 640 : 640x480

Storage	Capacity (32MB)	2560: Super Fine 11, Fine 22, Normal 32 TIFF 2 2272: Super Fine 14, Fine 28, Normal 40 TIFF 2 2048: Super Fine 17, Fine 33, Normal 49 TIFF 3 1600: Super Fine 28, Fine 53, Normal 75 TIFF 5 1024: Super Fine 64, Fine 106, Normal 139 TIFF 12 640: Super Fine 129, Fine 201, Normal 227 TIFF 27 * These figures are measured under Samsung's standard conditions and may vary depending on shooting conditions and camera settings.
Image Play	Type	Single image, Thumbnails, Slide show, Movie Clip
	Editing	Trimming, Resizing
Interface		Digital output connector : USB 1.1 Audio : Mono Video output : NTSC, PAL (user selectable) DC power input connector : 5.0V
Power Source		Primary battery : 2xAA alkaline, Lithium, Ni-Mn, Ni-Zn/1xCR-V3 Rechargeable battery : 3.7V Li-ion (SLB-1437), 2xAA Ni-MH, Ni-Cd/1xI-Pack(SBP-1303) AC Adapter : SAC-51(DC 5.0V, 2.0A) ※ Included power source may vary depending on sales region.
Dimensions (WxHxD)		105.5 x 54.6 x 38mm
Weight		170g (without batteries and card)
Operating Temperature		0 ~ 40 °C
Operating Humidity		5 ~ 85 %
Software	Camera	Storage Driver (Windows98/98SE/2000/ME/XP, Mac OS 9.0~10.2)
	DriverApplication	Digimax Viewer, Adobe PhotoShop Elements
Special Features		A World Unique 9 Different Power Sources A World Superior Schneider Lens VGA 30fps Movie Clip, AVI AVI capture on Play Mode

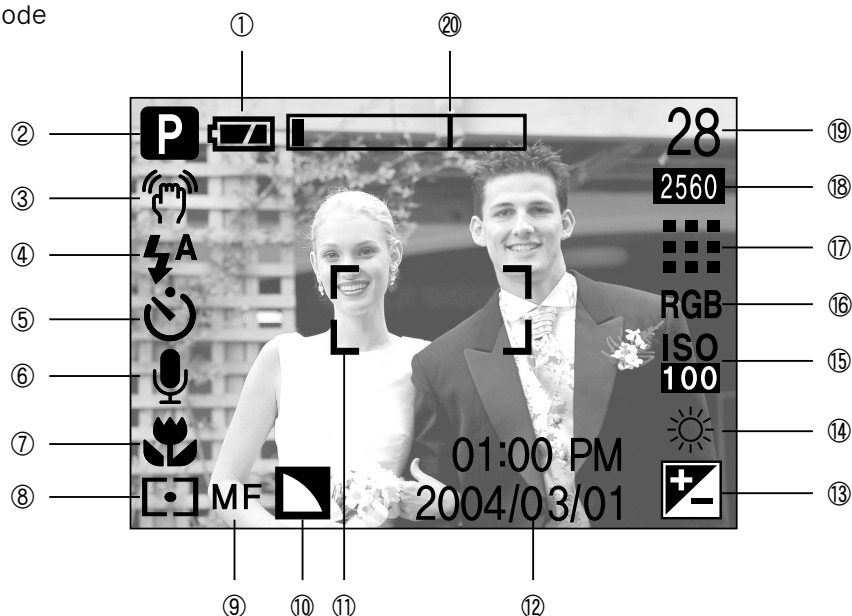
2. System Requirements

For Windows	PC with processor better than MMX Pentium 233MHz (XP : Pentium II 300MHz) Windows 98/98SE/2000/ME/XP Minimum 32MB RAM (XP : 128MB) 140MB of available hard-disk space, USB port, CD-ROM drive, 800 × 600 pixels, 16-bit colour display compatible monitor (24-bit color display recommended)
For Macintosh	Power Mac G3 or later Mac OS 9.0 ~ 10.2 Minimum 64MB RAM 110MB of available hard-disk space, USB port, CD-ROM drive, QuickTime 4.0 or later for Movie Clip

I . SPECIFICATION

3. TFT LCD PANEL MARK

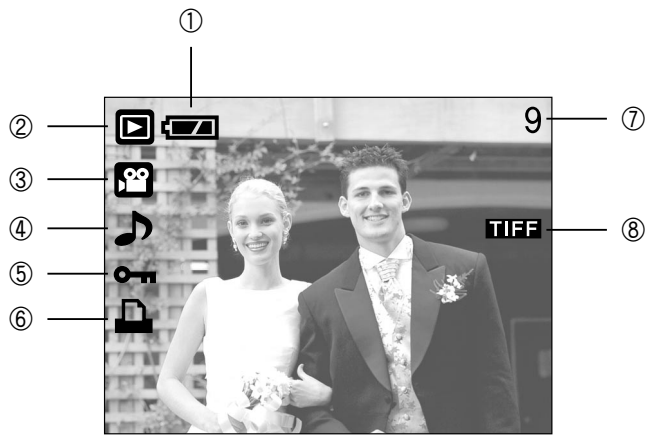
■ Recording mode



[Image & Full Status]

No.	Description	Icons
1	Battery	
2	Recording mode	
3	Camera shake warning	
4	Flash	
5	Self-timer	
6	Voice memo	
7	Macro	
8	Metering	
9	Manual focus	MF
10	Sharpness	
11	Auto focus frame	
12	Date/ Time	2004/03/01 01:00 PM
13	Exposure compensation	
14	White Balance	AWB
15	ISO	
16	RGB	RGB
17	Image quality	TIFF
18	Image size/ Continuous shot	2560, 2272, 2048, 1600, 1024, 640
19	Number of available shots remaining	28
	Remaining time (Movie clip/ Voice recording)	00:01:30/01:00:00
20	Optical/ Digital Zoom rate	

■ Play mode

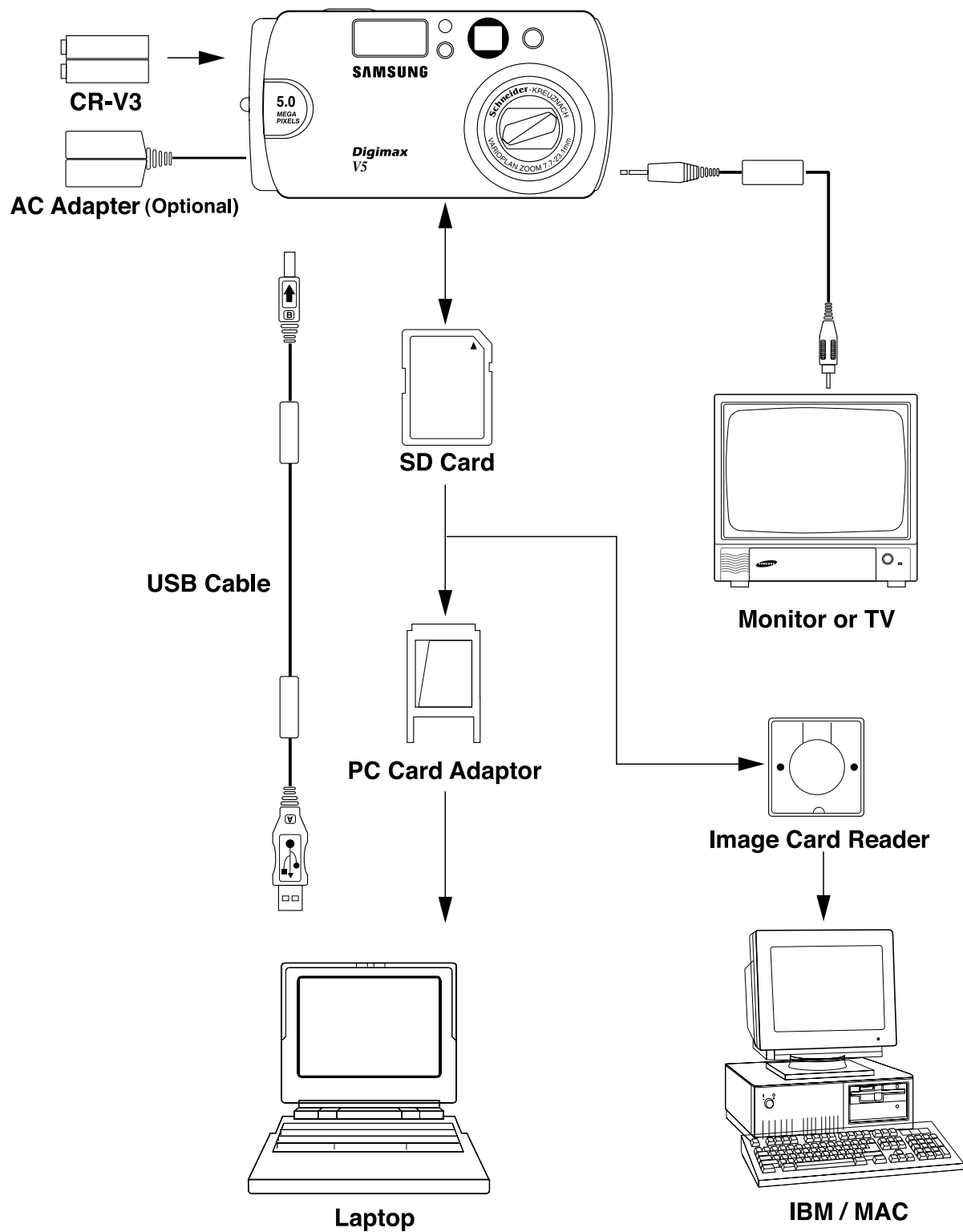


No.	Description	Icon
1	Battery	
2	Play mode	
3	File Type	
4	Voice memo	
5	Protect indicator	
6	DPOF indicator	
7	Stored image number	9
8	TIFF file	TIFF

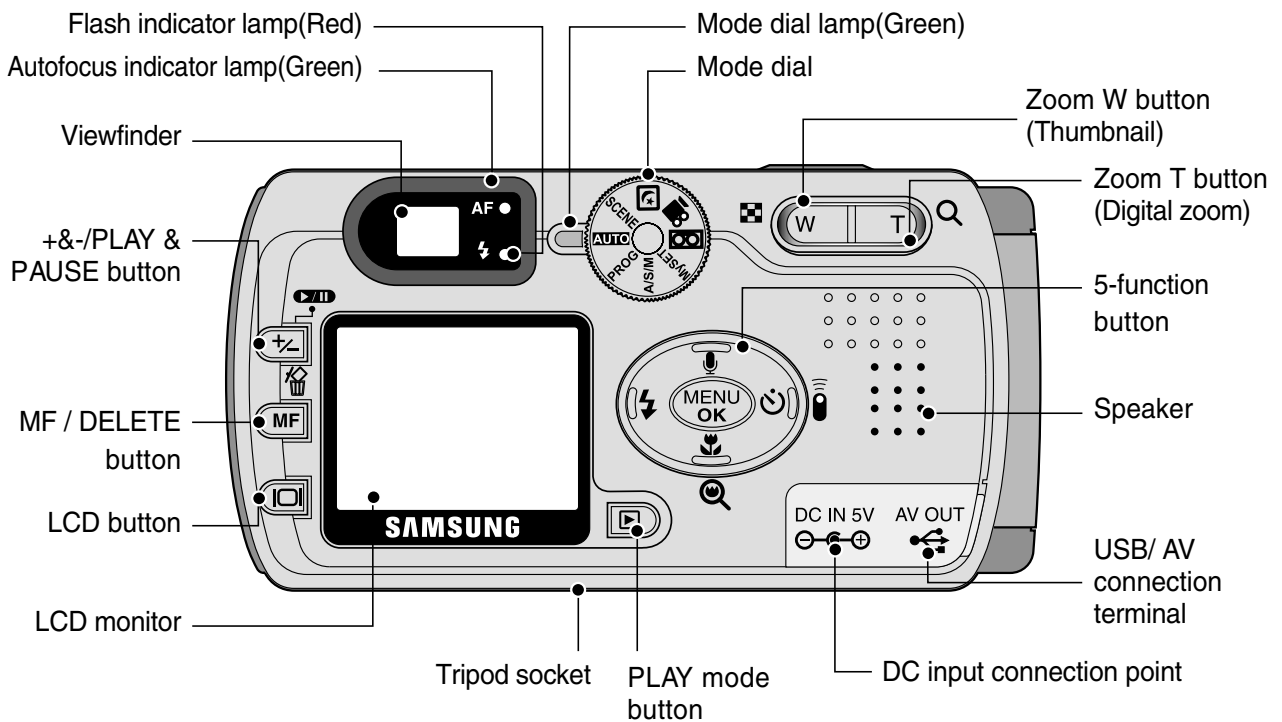
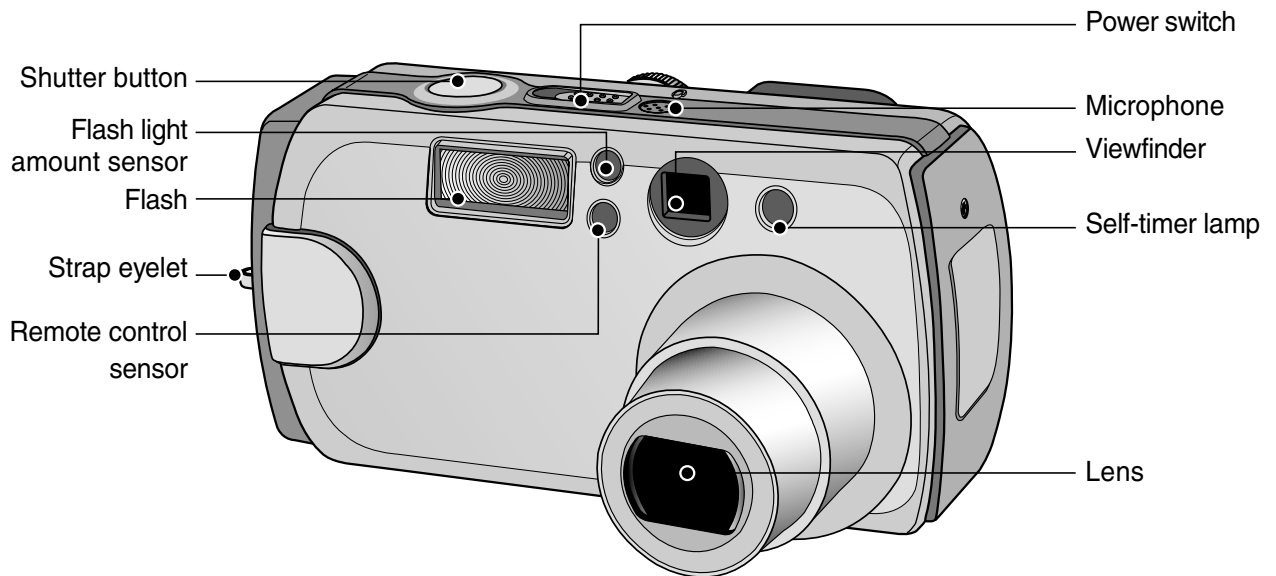


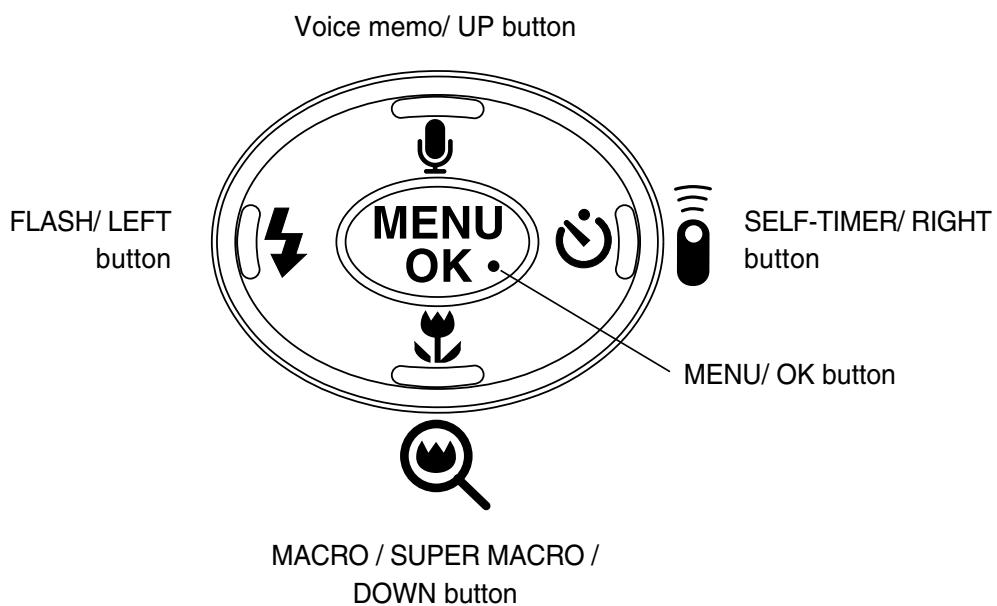
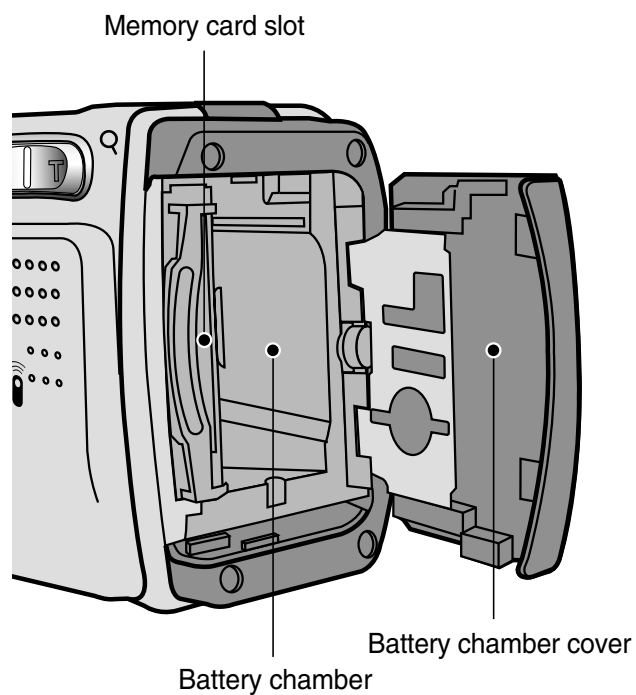
SIZE	: 2560x1920	Size
AV	: F2.7	Aperture value
TV	: 1/30	Shutter speed
ISO	: 50	ISO sensitivity
FLASH	: OFF	Whether or not the flash is used.
DATE	: 2004/03/01	Recording date

4. Connection diagram



5. Identification of features





II . INSTALLATION

1. Digimax V5 software introduction

► USB Storage Driver

This enables images to transfer between the camera and PC.

This camera uses the USB Storage Driver as the camera driver. You can use the camera as a USB card reader. After installing the driver and connecting this camera to the PC, you can find [Removable Disk] in [Windows Explorer] or [My computer]. A USB Storage Driver is provided only for Windows. A USB Driver for MAC is not included with the Application CD. But you can use the camera with Mac OS 9.0~10.2.

► Digimax Viewer 2.1

This is a program for viewing stored images. You can see the stored images in the memory directly on a PC monitor. You can also copy, move or delete the images and enlarge /downscale the image sizes with Digimax Viewer.

For windows only.

► Adobe Phtoshop Elements 2.0

Image editing program for downloaded images. For Windows only.

2. Program Installation

► For Windows

Refer to the manual for detailed information on installation.

USB Storage Driver, Digimax Viewer 2.1, Adobe Photoshop Elements 2.0

► For Macintosh

Separated Driver or editing software is not supplied.

Driver for Macintosh use is automatically installed when the camera is turned on at the PC mode.

II. FAQ

< For Windows >

- Our company aren't responsible for case of using Personal Computer isn't guaranteed from manufacturer like assembled PC.

► When installing

Q1. How can I check of the USB Interface available in my PC?

A1. First, Check if the USB ports located in the back of the body or keyboard to connect the USB cable as shown in the figure.
Second, Check if [Universal Serial Bus(USB) Controller] located in the System Device Manager. Check as follows,
Click 「Start → Setting → Controller → System → Device Manager → Universal Serial Bus Controller」 sequentially.
Then there should be the *USB Host Controller* and *USB root hub* in the USB controller.



Third, Check the OS installed in PC.

The USB Interface is enabled in Windows 98 or later(Windows 98, 98SE, 2000, ME)
Windows 95 OSR 2.1 or later.

It should be met with the following three requirements.

For other details about USB, see <http://www.usb.org>.

Q2. Though the Driver CD inserted in CD-ROM Drive, Auto Installation screen is not operate.

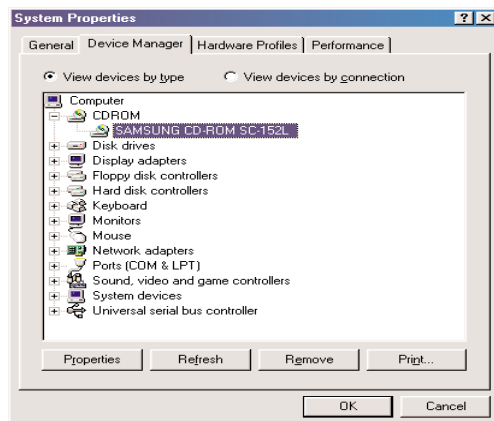
How can I install the program?

A2. First, It might be occurred if [Auto insert notification], the option to run Auto installation Screen when the CD inserted was not set.

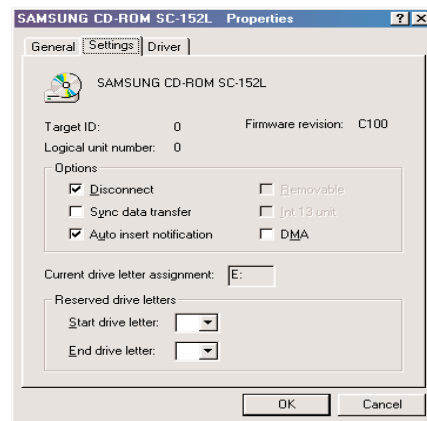
Set 「Auto insert notification」 as follows.

If selecting 「Start → Setting → Controller → System → Device Manager → CDROM」 (see Fig. 1), the installed CD-ROM appears. Double click this and then select the setting, the following frame(see Fig. 2) will be shown.

Select 「Auto insert notification」 from the options and reboot the PC.



< Fig. 1 >



< Fig. 2 >

Second, You need 5~10 seconds for running the automatic setup program according to the capability of select 「Samsung.exe」 in the CD-ROM drive root directory.

Third, Without running the Auto Installation Screen, run the 「Windows Explorer」 and install the S/W directly at the desired program folder of CD-ROM root directory.

- USB Storage Driver : Run 「Setup.exe」 in the 「KENOX V5 V500」 folder
- Digimax Viewer 2.1 : Run 「Setup.exe」 in the 「Digimax Viewer 2.1」
- Adobe Photoshop Elements 2.0 :Run 「Setup.exe」 in the 「Adobe Photoshop Elements 2.0」

Q3. Can we use normal USB Cable?

A3. Necessarily, you must use supported USB cable when purchasing product.

Q4. When I connects USB cable with not like first USB port, [New hardware found wizard] operates again. Of course, I have ever used this driver after setting up. Why does it happen?

A4. Drivers are controlled by USB port and connected to each USB port. Therefore, if you connect another port, [New hardware found] can recognize it as new connected device.

There is no fault on your system, just follow direction comes out on your monitor.

Q5. Although I plugged the USB cable into the other port than before, [New hardware search wizard] runs again Of course I used to install the Driver and use. Why so?

A5. It is caused by the facts that the memory card is not inserted correctly or formatted wrong you should first check if the memory card is inserted correctly and connect the USB cable.

If the memory card is formatted wrong, reformat in the camera. If you can't format in the camera, please format with a card reader, but make sure to format in "FAT" form.

Q6. The camera has not a PC mode in the mode dial. What should I do?

A6. Digimax V5 doesn't have a PC mode. If you connect the Camera to the PC with the USB cable, it is set to the PC mode automatically.

Q7. When is the Digimax V5 Driver installed?

A7. On the first install display, installation of the Digimax V5 Driver starts with clicking [Install] button.



II . FAQ

Q8. I'd like to install either Digimax Viewer 2.1 or Adobe Photoshop Elements 2.0 what should I do?

A8. Please tick off the articles you want to install on the second frame while installing, and click "Next"



Q9. When using One Click Installer,

After installation of Digimax Viewer 2.1 "Restart" message came out. What should I do?

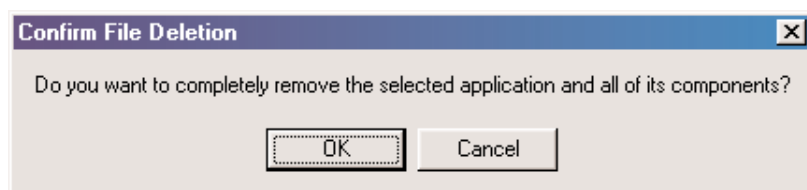
A9. On the "Restart" frame, after installing the Digimax Viewer 2.1, choose "No" then you can go next.

Q10. When using One Click Installer,

I canceled when "Restart" message came out, after installing Adobe Photoshop Elements 2.0, but "Restart" message came out again in the end.

A10. It is because restarting is necessary for using well. It is not an error.

Q11. I set up driver with supported CD, but screen came out like below. What should I do?



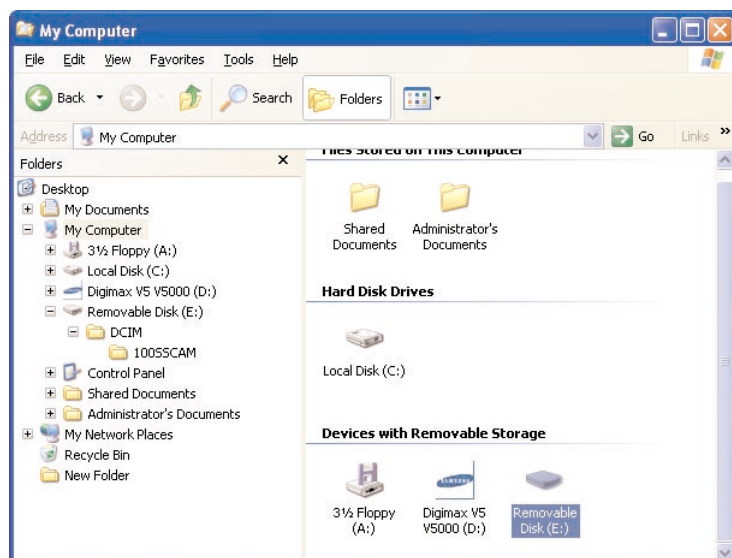
A11. Though Driver was set up already, if you click USB Storage Driver of set up screen again, that kind of problem comes out.

At this time, if you choose [Confirm], be careful not to remove a driver.

And in case of using camera continuously, choose [cancel].

Q12. How can I check if the USB Storage driver has been installed successfully?

A12. Connect camera to the PC with the provided USB cable and turn it on at the PC mode.
Then the following is shown.

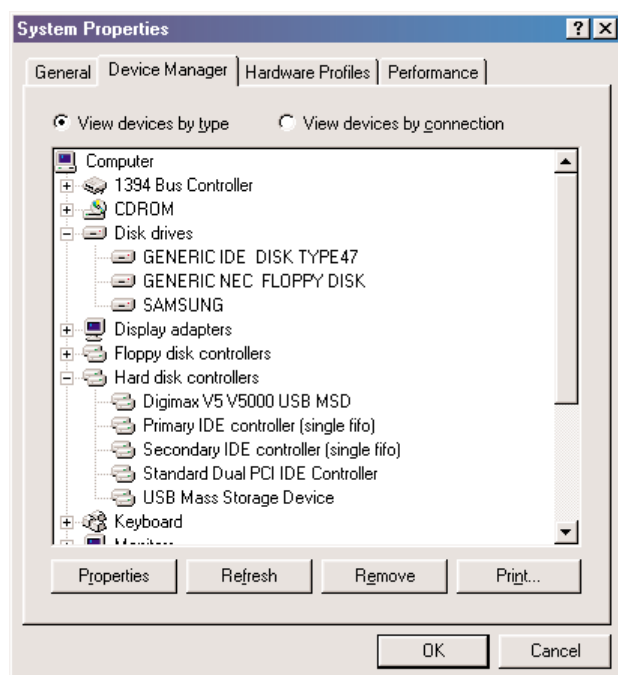


(2) In the system properties, the device state is indicated as "The device is working properly".

< Win 98/98SE >

- Disk drives : SAMSUNG
- Universal Serial Bus(USB) controller : V5 USB MSD

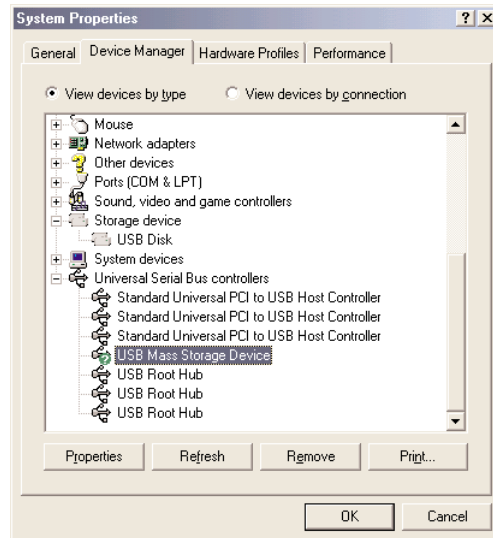
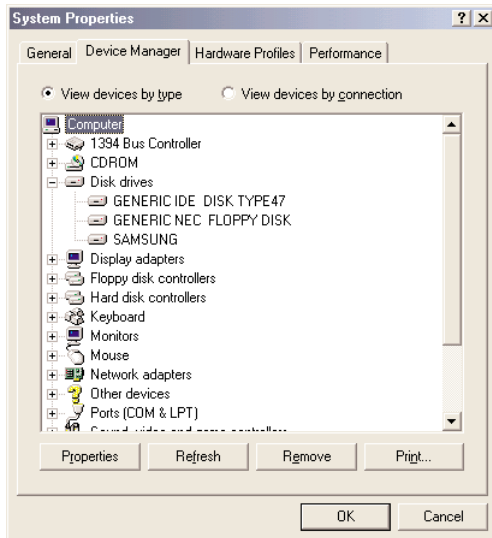
USB Mess Storage Device



II . FAQ

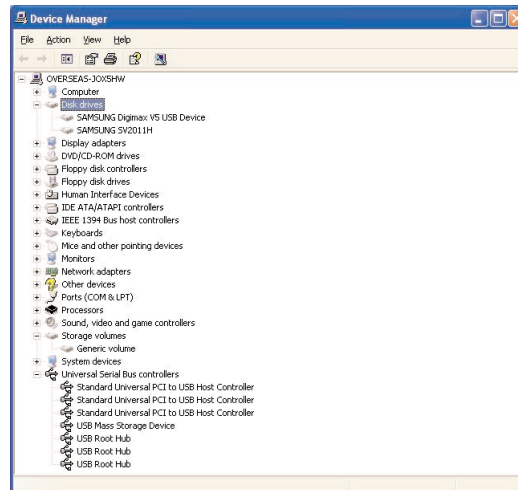
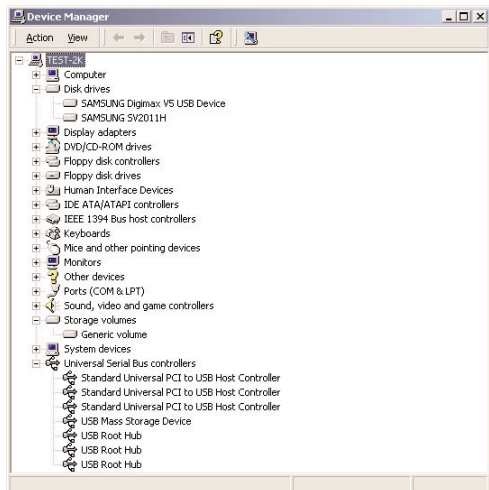
< Win ME >

- Disk drives : SAMSUNG
- Universal Serial Bus controller : USB Mass Stroage Device
- Storage device : USB Disk



< Win 2K / XP >

- Disk drives : SAMSUNG DIGIMAX V5 USB Device
- Universal Serial Bus controller : USB Mass Storage Device
- Storage volume : general volume



(3) Please check as belows files are installed or not.

< Windows 98 / 98SE >

- V5_.inf : Windows/inf/other
- V5_PDR.pdr : Windows/system/iosubsys
- V5_.sys : Windows/system

< Windows ME / 2000 / XP >

usbstor.sys : Windows/system32/drivers

usbstor.inf : Windows/inf

<NOTE> Necessary file When using storage

1. Windows 2000

winnt/system32/drivers/disk.sys

usbstor.sys

winnt/inf/usbstor.inf

disk.inf

2. Windows ME

windows/system32/drivers/usbntmap.sys

usbstor.sys

windows/system/iosubsys/usbphlp.pdr

windows/inf/usbntmap.inf

usbstor.inf

3. Windows XP

windows/system32/drivers/disk.sys

portmgr.sys

usbstor.sys

volsnap.sys

Q13. I connected the camera to the PC, but the PC messaged it can not find the specific Driver for the device which has been installed as Unknown Device. What should I do?

A13. The USB Storage Driver has not been installed yet or installed wrong.

- 98 / 98SE

If you try to install the Driver after connecting the camera you can see the message above, so please make sure you install the USB Storage Driver first then connect the camera to use.

(1) I connected the USB cable prior to installing the Driver

1. Remove the Unknown Device in the Device Manager.

2. Install the Driver.

3. Restart the PC.

4. Reconnect the USB Cable.

(2) I connect the USB cable after installing the Driver, in other words, it is installed wrong

1. Select the Unknown Device in the [Device Manager].

2. Click the right mouse button to go into [Registration Information].

3. Click [Driver Reinstall].

4. In the [Driver File Find] frame, choose [Location Designation] and go next.

5. Choose [Search] in the [Position of the manufacturer's file to be copied], and

Window/inf/other, then check if there is Digimaxv V5.inf in it and select.

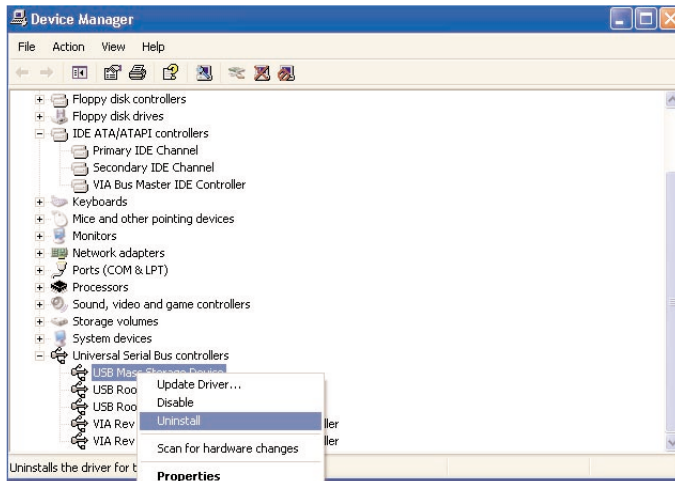
- ME / 2000 / XP

Because either you unplugged the USB cable while image loading is underway or usbstor.sys and usbstor.inf (or necessary files - <NOTE> to use storage) do not exist.

When you connect the camera "DSC" or "Unknown Device" messages come out in the [Device Manager].

II . FAQ

1. Click it with the right mouse button and erase.
2. Disconnect the camera from the PC.
3. Check if there are usbstor.sys and usbstor.inf and restart the PC.
4. Please reconnect the camera to use.



Q14. I turned the camera power on, and connected it to the PC, but it does not work.

A14. Depending on a PC, it sometimes happens that communication is interrupted.

For that, turn on the PC first, then connect the USB cable and turn on the camera in order.

Q15. If using the VIA chipset

A15. If using the VIA chipset, USB communication might not operate normally in some case.

The patch file of USB Filter Driver is also registered in the website of VIA Technology Inc.

Install the patch file and then use it. You can find the patch file in the following URL.

<http://www.viatech.com/drivers> or samsungcamera.com

Q16. If using AMD processor and VIA USB Controller

AMD Processor more than 350MHz, USB controller of VIA Technologies

A16. It has been known that there being the problem in the USB operation between Microsoft Windows

98SE version and the above hardware, so the patch file is registered in the Microsoft Website.

Download and install the patch file.

You can find the patch file in the following URL.

<http://support.microsoft.com/support/kb/articles/Q240/0/75.asp>

(Ref) It has been modified in Windows ME(Millennium Edition).

Q17. Using Intel chipset

A17. The patch file concerning the Intel chipset is registered in the Intel website.

Download the required file from the following website and then upgrade the system.

<http://developer.intel.com/design/software/drivers/platform/inf.htm>

► MOVIE CLIP PLAY

Q1. When opening the moving image photographed by camera, it is not open.

A1. The video decoder for Digimax V5 was not installed. Please install the video decoder.

However, video decoder is installed automatically during installing Storage Driver of Driver-CD.

< Method 1 >

Put the provided Driver-CD into CD-ROM Drive.

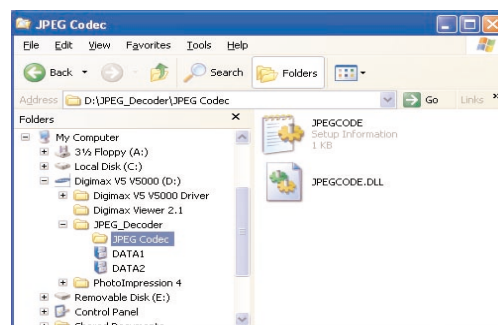
Play the 「Windows Explorer」 and then click

「JPEG-Decoder」 folder in the CD-ROM Drive folder.

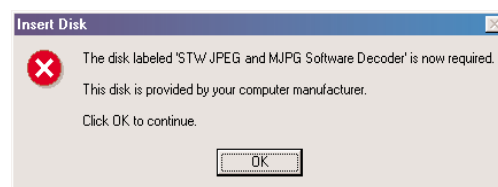
The frame below is displayed when you select

「Jpegcode.inf」 in 「JPEG-Decoder」 folder and then press the right button on your mouse.

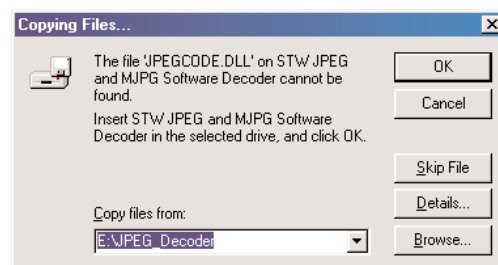
When you select 「Install」, the video compression codec is automatically set up.



If the following display shown during installation, do as follows.



If pressing 「OK」 button, the screen will be displayed as shown in the following figure. This time, if pressing 「OK」 button, installation is automatically completed. If Auto Installation does not operate, select Copy files from as 「JPEG-Decoder」 folder and then press 「OK」 button.



If installed normally,

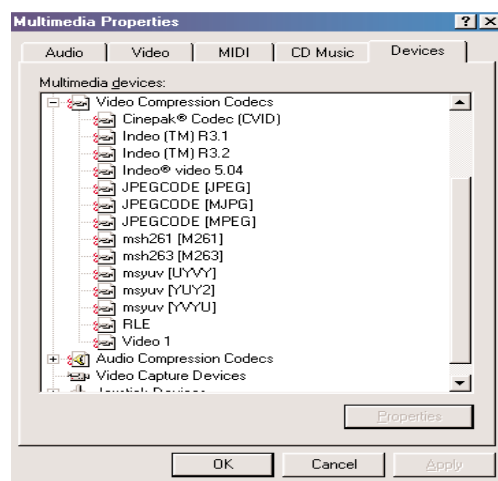
「JPEG.CODE[JPEG]」 and 「JPEG.CODE[MJPG]」 will be displayed on 「Video Compression codecs」 in 「Multimedia properties」. To show the following screen, press 「Start → Setting → Controller → Multimedia → Device」 sequentially. Only, windows 98, 98SE-based.

< Method 2 >

Please install the QuickTime for replaying AVI files.

You can download QuickTime from

<http://www.apple.com/quicktime/download> for free, and it is trademark of Apple Computer, Inc.



II . FAQ

- UUSB Storage Driver use (Removable disk usual)

Q1. When trying to use camera as Removable disk connecting with PC, screen comes out as below.



A1. The camera doesn't have memory card. After inserting memory card, use it.

Q2. I connect a camera to PC, but "Removable disk" icon doesn't come out or when double-clicking "removable disk" icon, error message comes out. Why does it happen?

A2. (1) Has problem in power supply.

Check about connecting AC adapter correctly or battery remainder.

(2) Has a problem in Card. Check to see image in camera monitor.

(3) Has a problem in USB cable connecting a camera to PC.

Use supported USB cable with camera.

Q3. One of files in PC, I did copy download file to memory card of camera, but I couldn't check it in PLAY mode of camera.

A3. It may happens in case of recording file from computer to camera and file in memory card are same. So, though it has same file name in memory card like (ex. SV400001.JPG / SV400001.AVI), it displays in order JPG -> AVI, only one file in play mode of camera.

Also, in case of deleting displayed file from camera, can be deleted another file of same file name. So, when recording photographing image from computer to camera, be careful not to add with file name of memory card.

Q4. When I record random file not to photograph with Digimax V5 from computer to camera, what should I do?

A4. When you record random file not to photograph with this camera from computer to camera, message "Wrong file" displays in screen view, appears black in Thumbnail. It can be impossible to check in Camera.

Q5. I copied a file from computer to camera, but it wasn't recorded in camera.

A5. Because you operate a camera during you are working on PC.

So, when operating works; copying file of Removable disk to computer, deleting and copying file in computer to portable disk, green lamp of side view finder of camera is on and off.

When green lamp is off completely, it means operating work finish correctly.

Before this, not to do another work; USB cable disconnect, mode dial adjust, disconnect camera through [hardware disassemble and put out].

Specially, be careful below problem in Windows 2000.

1. Case of Deleting files of Removable disk

-> After done deleting a file in PC, green lamp is off in 10 seconds.

2. Case of moving file of Removable disk to PC and copying file of PC to Removable disk

-> First step, green lamp is off, in 15~20 seconds, second green lamp is off again.

Case of 1, 2, when all green lamp are off completely, operating work finishes normally.

☞ Operating camera during working with PC, it may cause media damage and data loss.

So, after green lamp is usually off, operate camera.

Q6. When transmitting amounts of image data, what is required detail?

A6. When transmitting amounts of image data, it may not have enough virtual memory of system.

For this, increase virtual memory like this.(based on Win 98SE)

1. [Start] -> [Settings] -> [Control Pad].

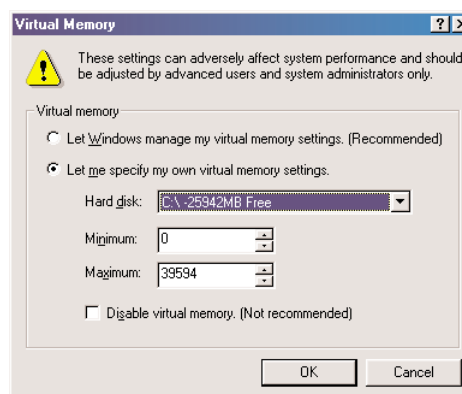
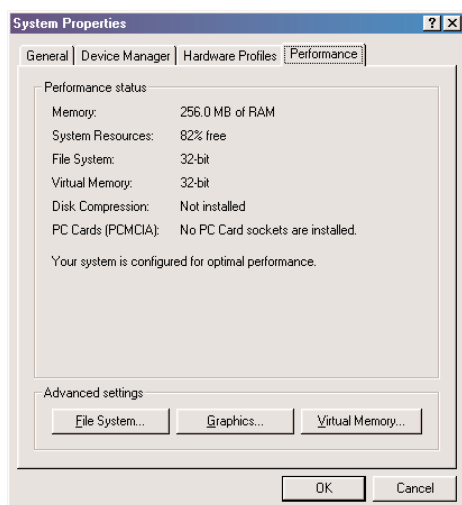
2. Click the [System], open "system register information".

3. In "Efficiency", "Advanced Settings" Press "Virtual memory" button.

4. Press "User manage virtual memory setting directly" of virtual meomory.

5. In virtual memory screen, increase each minimum(MB) and maximum(MB).

6. If you press "OK" button, it finish virtual memory settings.



Q7. When moving image is playing in Removable disk, it looks like photograph cutting off.

A7. If image is playing in memory directly, it may cause photograph cut off.

Before you see photograph, copy files to hard disk of PC and play it.

► Digimax Viewer 2.1 Use

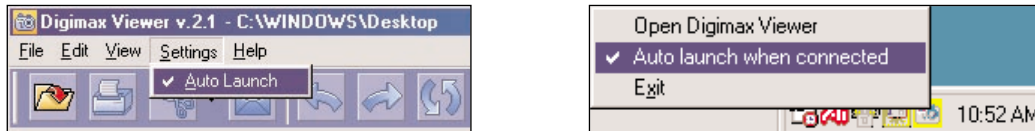
Q1. If camera is connected, Viewer program operates automatically, but it didn't operate for me.
What should I do?

A1. (1) Check to adjust PC mode of camera.

II . FAQ

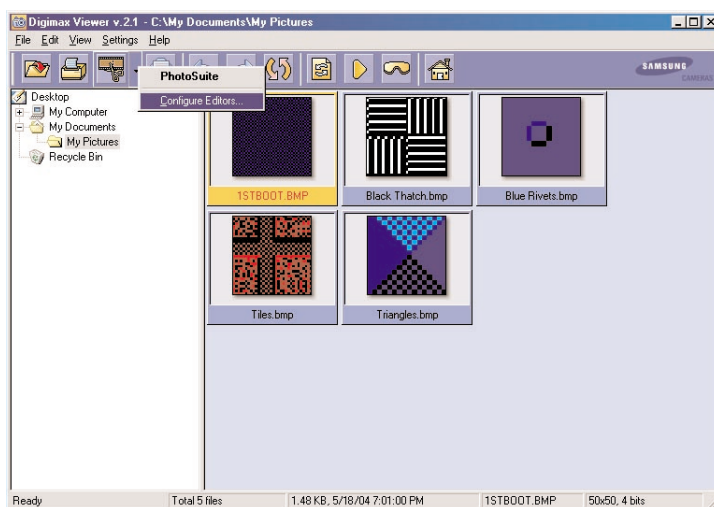
- (2) Check to set up Digimax Viewer 2.1 program.
- (3) Check Digimax Viewer icon on Start Menu working line, and confirm to check “Auto launch when connected”. If it does, operate automatically.

Or, check “Auto launch” in Setting Menu of Viewer program.



Q2. I want to edit photos by another program. how can i set it up?

A2. Select picture, click the arrow next to edit program, and click the setting up of edit program.



Then, you see following options.

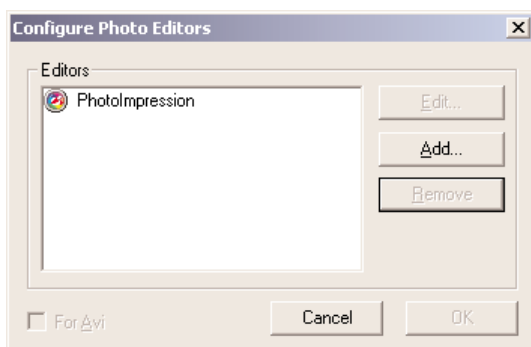
Edit: editing the name of selected program.

Add: adding different edit program.

Removal: removing added edit program.

Setting up to basic: automatic connection by pressing edit program icon with making the program basic.

Movie clip: click movie clip, editing movie clip edit program, adding, removing.

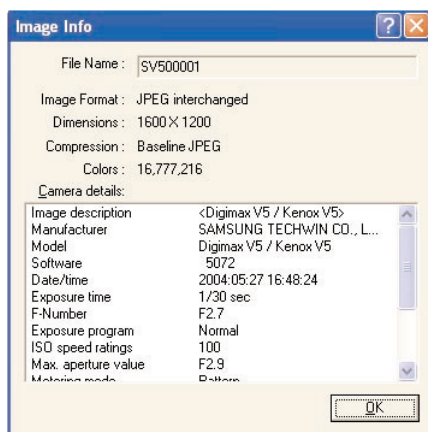


Q3. Even though window media player is set to default, the movie clip file's not workin automatically.

A3. Set up the connection to window media player by edit program.

Q4. I want to see the information of voice memo recorded with picture.

A4. Select the picture and select <information> after clicking the right button on mouse, you can see the information, and click audio icon, you can see the information of voice memo.

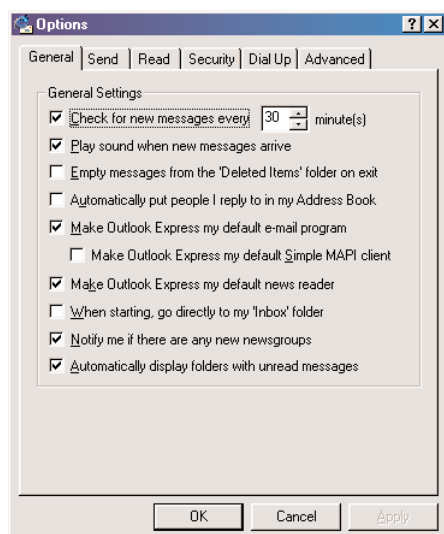


Q5. I want to send pictures by e-mail, but e-mail icon is disable.

A5. OS default mail program is not set up.

follow the next.

1. Start microsoft outlook express.
2. Click the option in tool menu.
3. Select following in usual tab.
 - using outlook express to basic mail program.
 - using outlook express to basic MAPI client.
4. Click <yes>, after message scene comes up.
5. You can use e-mail with rebooting the system.



II . FAQ

Q6. The icon of edit program, information, ect.. is not active, after selecting many pictures.

A6. The edit program connection and entry information,ect.. is only possible with one picture.

Q7. First cycle of slide show is going slowly.

A7. Because buffering time is long. The slide show will be shown as selected from next.

Q8. The thumbnail picture taken by small size(544x480) is dim.

A8. The system brings the thumbnail information of exif which is saved together, when taken.

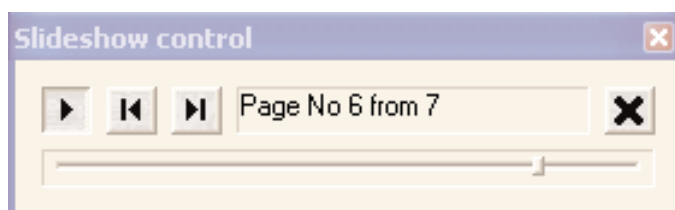
Q9. I select "fix ratio" by clicking the right button on mouse, and click the "fix ratio", but it doesn't disappear.

A9. The right button on mouse allows "fix ratio" only. Click <display> and select different option.

Q10. How to stop the slide show temporally on process.

A10. Please click the play button once more.

Q11. Some image has detailed entry information, but any image hasn't. Why?



A11. There is an entry information made by camera only. Because this is recorded when you take a picture. If you change the format of image made from camera, or size, you can't see entry information any more.

Q12. If you do another job (down the mouse scroll bar, execute another job minimizing viewer) on loading the image of camera, the computer takes it slowly.

A12. That's for stability.

Abstain from doing another job on loading image.

Q13. When I select the <detail> in <example>, I can't see which image is selected.

A13. It is selected that the light of file name is changed to red character in <detailed>.

Q14. How can I select the center image in <big icon> or <small icon>?

A14. Select the image you want by click, pressing CTRL key.

Q15. I can't see the folder made in background scene in the folder tree of Digimax Viewer 2.1

A15. Click the <RENEWAL> button, after executing made folder.

Otherwise, turn the Digimax Viewer 2.1 on and off.

Q16. Exist in thumbnail scene, but it doesn't exist on slide show.

A16. Because it is an AVI file. avi is shown in thumbnail scene only first time.

Q17. I try to use Digimax Viewer 2.1 connecting with the camera of another company, or card reader machine, but it's working slowly, or not working.

A17. That's not a problem with program, because Digimax Viewer 2.1 is made for digimax only. you can use it after taking another camera or card reader machine off.

Q18. When can I use <undo>, <restoration>?

A18. You can use <changing name>, <changing all name of file> on searcher, or <rotation>, <a change of image size>.

Q19. There is a difference between the size of <detailed> and status bar.

A19. It's not wrong. The status bar shows it under the decimal to show more detailed size when the size is smaller than 1m.

Q20. Alt+tab is not working on slide show.

A20. Alt+tab is not suppose to work on slide show for stability. It's not an error.

Q21. I click the slide show, seeing an image, and it doesn't start from image I saw.

A21. It starts slide show from selected image in <searcher> scene. It's not an error.

Q22. After I diminish the window in <detail>, all of option is invisible, and there is no under scroll.

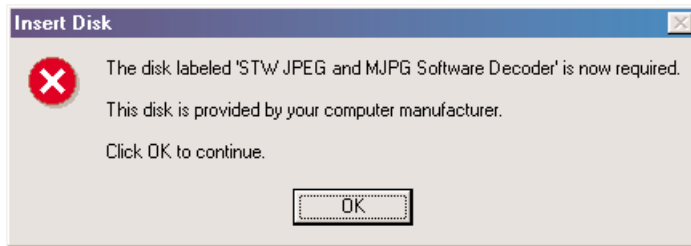
A22. Because a change of window size at each title is impossible in <detail>. It's not an error.

Q23. It's hard to move the position of image by mouse in <detail>.

A23. If you select image, you can move position. If you select name, you can change name. when you select many file, just select solution or the size of file.

II . FAQ

Q24. I try to execute after setting up viewer, but there is an error message like following.



A24. This error can not be mutual dll file (ex. oleaut32.dll, olepro32.dll, asyctilt.dll, stdole2.tlb) installed in the system.

Refer to <http://support.MICROSOFT.com/default.aspx?scid=kb;en-us;321915>

1. When microsoft office 2000 or office 2000 compenent is installed, visit <http://microsoft.com/office/previous/default.htm>, and get the office 2000 service release 1 (sr-1), and install it.
2. You have to install mcrepair.exe if there is no microsoft office 2000 or office 2000 component. visit <http://www.microsoft.com/download/msninvestor/patch/1.0/win98/en-us/mcrepair.exe>, and save the file of mcrepair.exe to background scene and then, reboot the computer after installing mcrepair.exe.

▶ USB Storage Driver removal

Necessarily, referring manual page 122~123, remove USB Storage Driver.

단, ME/2000/XP는 Driver를 제공하지 않으므로 제거할 수 없습니다.

< Reference > Method to search device manage for OS

1. Windows 98/98SE/ME
Settings → Control Pad → System → Device Manager
2. Windows 2000
Settings → Control Pad → System → Hardware → Device Manager
3. Windows XP
(1) Control Pad → Efficiency and maintenance manage → operation choose
: Basic information about computer → Hardware → Device manager
(2) Control Pad → Efficiency and maintenance manage → Control pad icon choose
: System

* For Windows 2000/ME/XP, Driver file, usbstor.sys is supported System file from OS,
Do not remove.

< For Macintosh >

- When purchasing Macintosh computer, check installed over Mac OS 9.0 and USB Mass Storage Support 1.3.5
- Not guarantee of USB operating in PC has Mac OS and Mac OS USB Mass Storage Support upgrading.

Q1. Is Driver supported for Macintosh?

A1. It is not additionally for Macintosh, but you can use this driver in over Mac OS 9.X Connect a camera to Macintosh with USB cable, after power on, it is recognized as Unknow name disk automatically.

Q2. When installing USB Storage Driver, QuickTime 4.0 or better is shown in the system requirements. QuickTime is not included in the Driver CD. How can I install USB Storage Driver?

A2. QuickTime 4.0 or better has more on the image comparing to the preceding version.

If you take advantage of this, the camera image can be shown more effectively.

Therefore be sure to install it.

If you go to <http://www.apple.com/quicktime>, you can download the up-to-date version.

Q3. How can I check the USB version in iMac?

A3. Click in the order of "Apple System Profiler - Device and volume" and the USB version is shown.

If the USB version is 1.0.1, updating is needed. But if it 1.1, you can use it without updating.

<http://developer.apple.com/hardware/usb/>, you can download the Mac OS USB DDK 1.5.5.

3. PictBridge

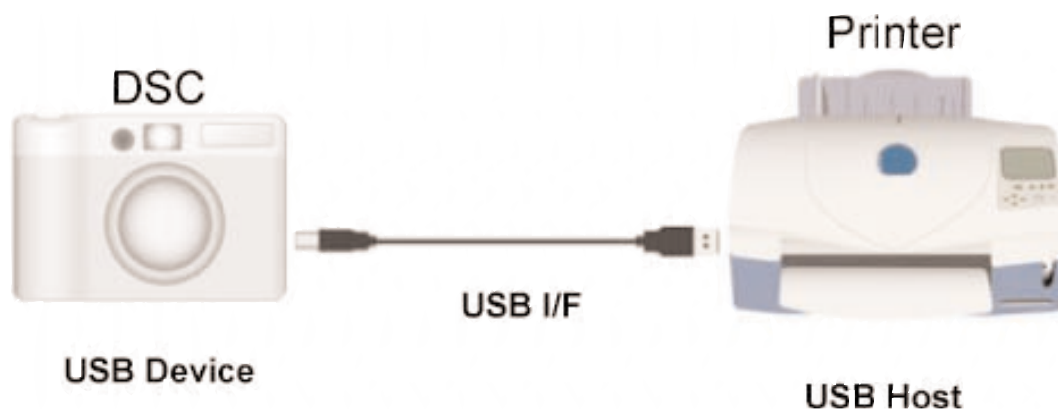
► About PictBridge.

- CIPA standard “CIPA DC-001”(PictBridge) provides direct connecting solution to image input/output devices by standardizing application service for image input/output devices.
The first PictBridge release focuses on direct printing service between DSC and printer.



► PictBridge system architecture

- As for PictBridge, DSC is directly connected to the printer through USB cable as shown below.
DSC serves as a “device” of USB, and printer works as a “Host” of USB.



► What kind of printers support PictBridge?

- When the printer supports PictBridge, PictBridge logo is attached on it.



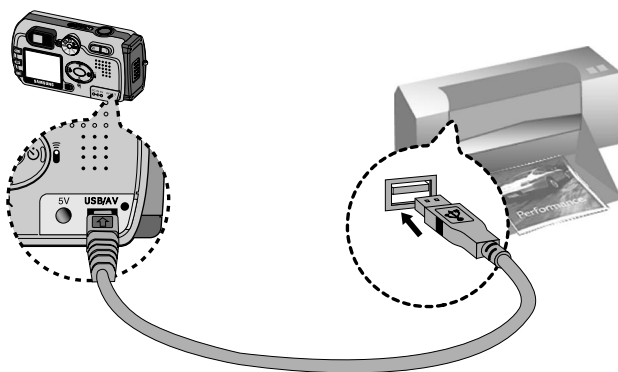
► How to use on the camera

- Changing Menu of camera.

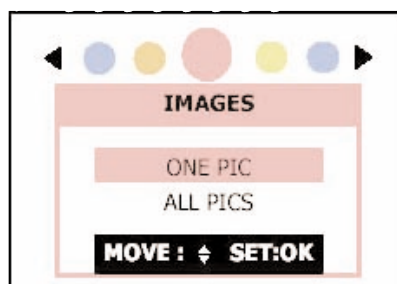
MENU -> SET -> USB -> PRINTER -> OK



- Connecting the Camera to a Printer.

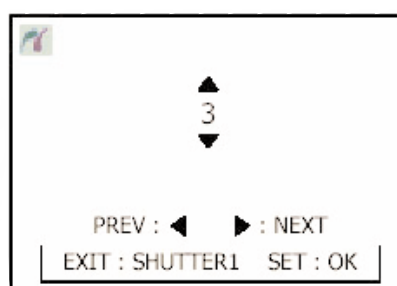
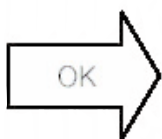
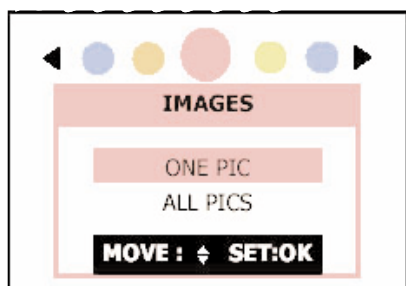


- After displaying the [CONNECTING...] message, the PICTBRIDGE menu will be displayed.



(1) Selecting the [IMAGE] menu

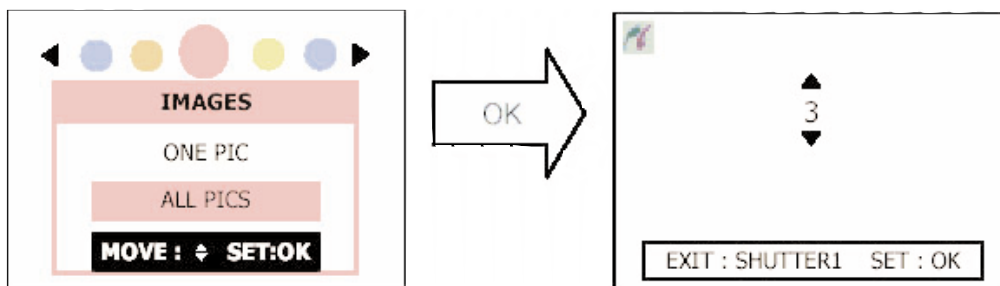
1) If you select [ONE PIC] menu, you can select various images.



II. FAQ

- ① Select an image that you want to print by pressing the LEFT/RIGHT button.
- ② Press the UP/DOWN to select a number of print.
- ③ To select the other image, repeat step ① and ②.
- ④ After selecting images and number of prints, press the OK button.
To cancel the setting, press the shutter button.

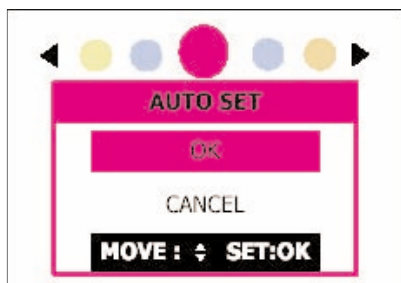
2) If you select [ALL PICS] menu, all JPG images in the memory card will be selected.



- ① Press the UP/DOWN to select a number of print.
- ② After selecting images and number of prints, press the OK button.
To cancel the setting, press the shutter button.

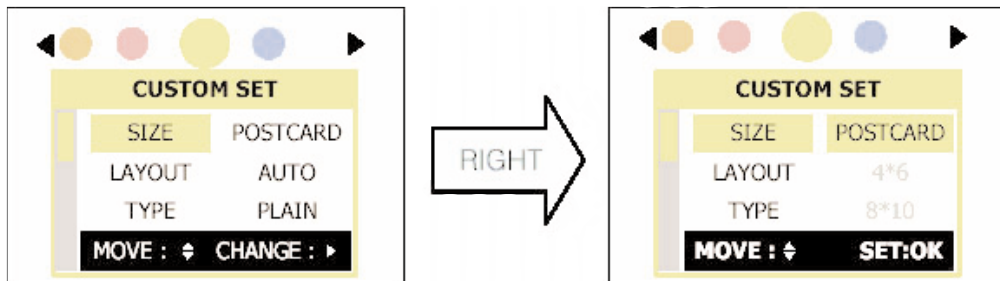
(2) Setting up the PRINTER

1) AUTO SET



[OK] : Default print setting will be set up.
In this case, [CUSTOM SET] menu will be changed to [AUTO]
[CANCEL] : The present settings will be kept.

2) CUSTOM SET

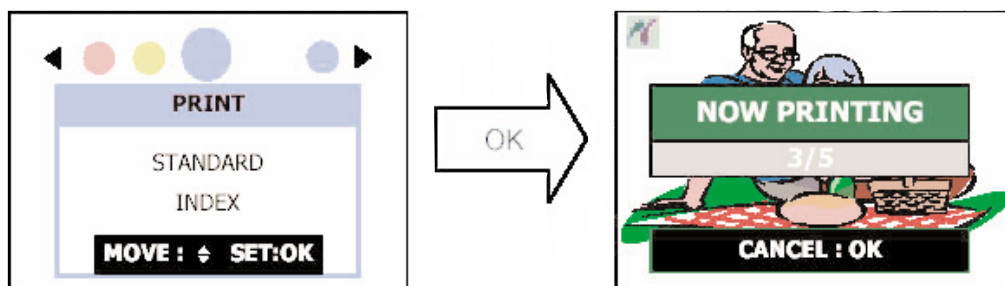


* You can select the printer settings.

- ① Select the [CUSTOM SET] main menus by pressing the UP/DOWN button.
- ② After selecting a desired main menu, press the RIGHT button.

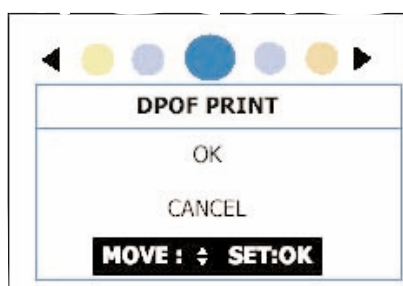
- ③ Select a desired sub menu by pressing the UP/DOWN button and press the OK button.
You can't select the gray-color sub menus that aren't supported with the connected

(3) PRINT



- 1) [STANDARD] : a image will be printed in a page.
- 2) [INDEX] : images will be printed in a page. the number of images that are printed in a page is different form each printers.
- 3) Press the OK button and the printing will start. [NOW PRINTING] message will display. Printing will be canceled by pressing the OK button.

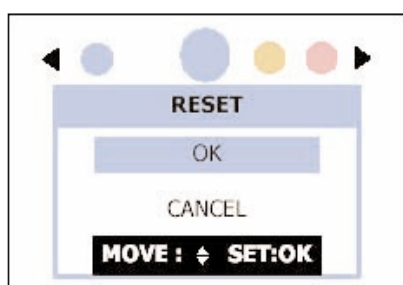
(4) DPOF PRINT



Images that have DPOF information will be printed automatically. You can insert the DPOF information in the PLAY mode.

* To execute this menu, you have to have DPOF compatible printer.
Gray-color menus aren't supported and you can't select the menus.

(5) RESET



Reset all image settings and printer settings.

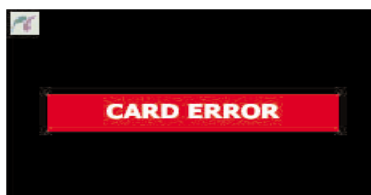
II . FAQ

► ERRORS of PictBridge



There is no memory card in the camera.

- Insert a memory card that have an image and print it again.



Inserted memory card have an error.



There are no images in the memory card.

- Take an image and print it again.
- Insert a memory card that have an image.



Camera setting and connected device are mismatched.

- Check the printer usb cable.
- Change the USB menu to [PRINTER].

Communication error.

- Remove the USB cable and insert it again.



Errors related to the paper.

The image can't be printed.

Press the OK button and the PictBridge menu will be displayed.

- paper jam
- eject paper



Errors related to the paper.

After check the warning reason, the image can be printed. To cancel the printing, press the LEFT button, and to continue the printing, press the OK button.

- no papers
- eject paper



Errors related to the ink.

The image can't be printed.

Press the OK button and the PictBridge menu will be displayed.

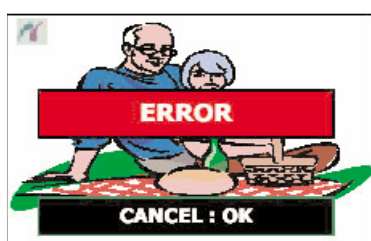


Errors related to the ink.

After check the warning reason, the image can be printed.

To cancel the printing, press the LEFT button, and to continue the printing, press the OK button.

- no ink



Errors related to the hardware or image file.

The image can't be printed.

Press the OK button and the PictBridge menu will be displayed.

- Printer cover may be opened.
- Printer can't be used.
- Printer is busy.



Errors related to the hardware or image file.

Errors related to the ink. After check the warning reason, the image can be printed. To cancel the printing, press the LEFT button, and to continue the printing, press the OK button.

- Printer cover may be opened.
- Printer can't be used.
- Printer is busy.



User selected inappropriate CUSTOM SET menus. User try to print an image that isn't in the memory card.

- Printer can't take a exact information from the camera.



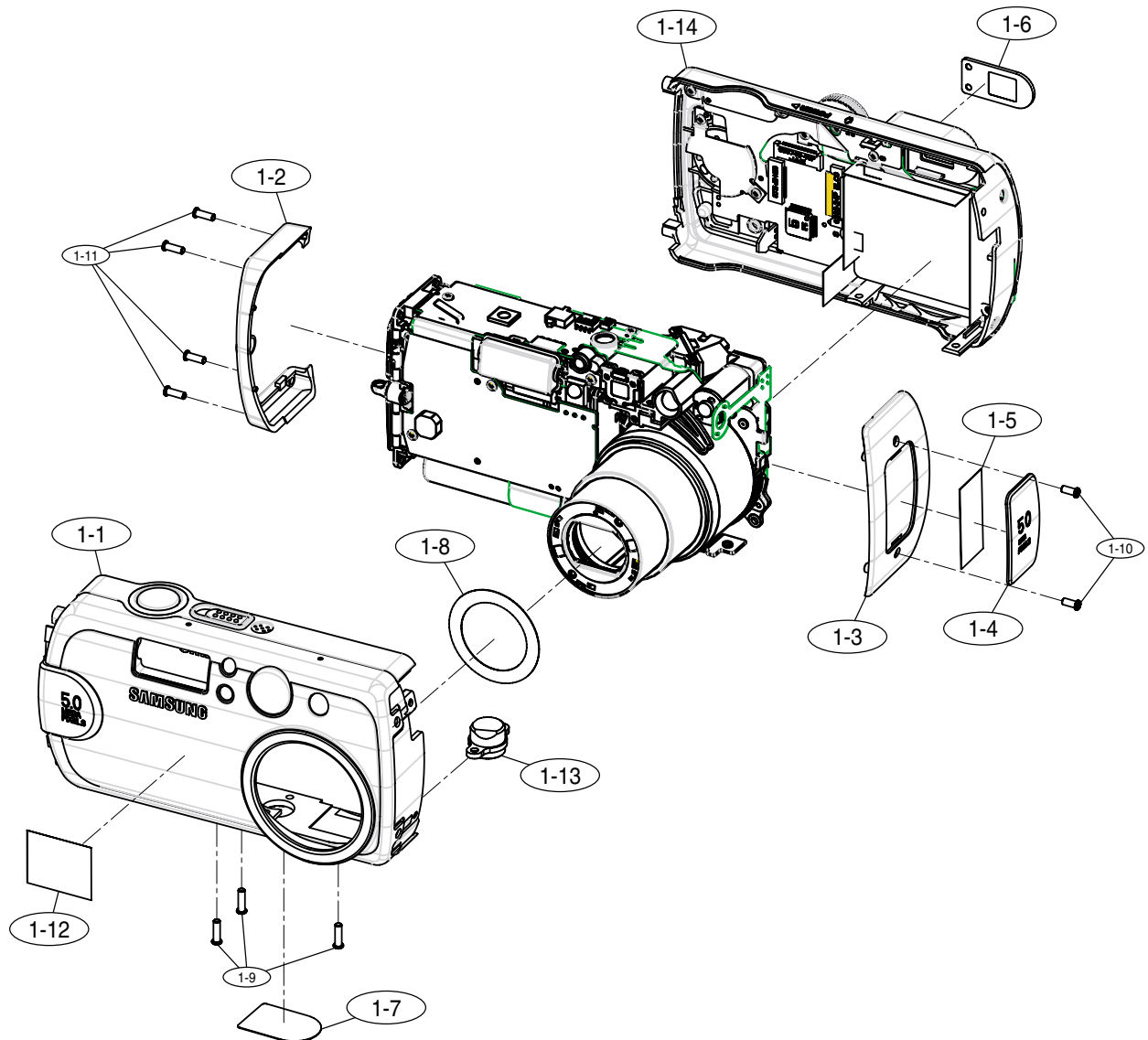
Printing is complete successfully.



Printing is canceled.

III. EXPLODED VIEWS AND PARTS LIST

1. MAIN ASSEMBLY



► PARTS LIST

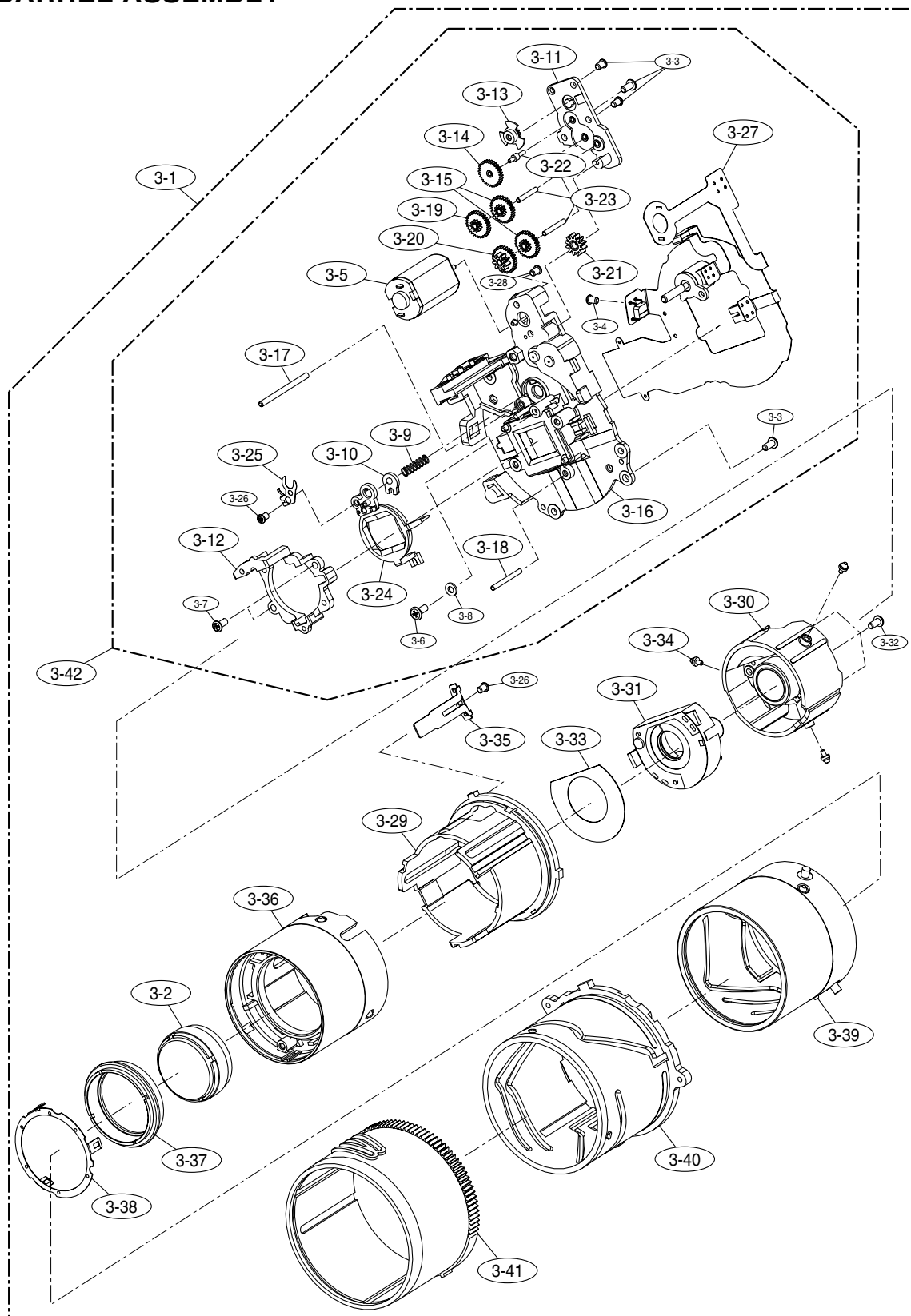
Fig.No.	Parts No.	Parts Name	Q'ty	Remarks
1-1	Q9007209301A	FRONT COVER ASS'Y-KENOX DIGIMAX V5	1	
	Q9007207201A	FRONT COVER ASS'Y-DIGIMAX V5	1	
	Q9007211101A	FRONT COVER ASS'Y-KENOX DIGIMAX V500	1	
	Q9007211001A	FRONT COVER ASS'Y-DIGIMAX V5000	1	
1-2	Q7217304702A	L SIDE COVER	1	V5
	Q7217314501A	L SIDE COVER	1	V5000
1-3	Q7217304603A	R SIDE COVER	1	V5
	Q7217314401A	R SIDE COVER	1	V5000
1-4	Q7217304802A	SIDE DECO PLATE	1	
1-5	Q7409159701A	SIDE DECO PLATE TAPE	1	
1-6	Q7217255901B	EP WINDOW	1	
1-7	Q7409158201A	FCC LABEL_DIGIMAX V5	1	
	Q7409161401A	FCC LABEL_DIGIMAX V5000	1	
	Q7409158301A	MIC LABEL_KENOX V5	1	
1-8	Q7012074102A	DECORATION RING	1	V5
	Q7012074901A	DECORATION RING	1	V5000
1-9	Q6003037301A	SCREW	3	
1-10	Q6003024201A	SCREW	2	
1-11	Q6003038401A	SCREW	4	
1-12	Q6804056301A	PRODUCT STICKER	1	
1-13	Q7211028902A	TRIPOD CONNECTOR	1	
1-14	Q9007206901A	BACK COVER ASSY	1	V5
	Q9007211301A	BACK COVER ASSY	1	V5000



► PARTS LIST

Fig.No.	Parts No.	Parts Name	Q'ty	Remarks
2-1	Q7211064605A	BODY	1	
2-2	Q6804044802A	BATTERY LABEL	1	
2-3	Q7409137101A	PCB TAPE-B	1	
2-4	Q7409136601A	PLAY TAPE	2	
2-5	Q7217253502A	BATTERY COVER	1	V5
	Q7217275501A	BATTERY COVER	1	V5000
2-6	Q7217253601A	BATTERY COVER STOPPER	1	
2-7	Q7217253704A	BATTERY COVER LOCK	1	
2-8	Q6107050901A	BATTERY HINGE SPRING	1	
2-9	Q7011041002A	BODY COVER	1	
2-10	Q7011041602A	BATTERY PLATE	1	
2-11	Q7011041702A	BATTERY SUB CONTACT	1	
2-12	Q7011041802B	BATTERY PLATE GUIDER	1	
2-13	Q7011042003B	BATTERY LOCK PLATE	1	
2-14	Q7011042101A	BATTERY LOCK HOLDER	1	
2-15	Q7011043404A	BATTERY CONTACT	2	
2-16	Q7309037402A	MIC CAP	1	
2-17	Q7411092902A	BATTERY HINGE_A	1	
2-18	Q7411095002A	BATTERY HINGE_B	1	
2-19	Q7411093002A	STRAP LINK	1	
2-20	Q7017036201A	E-RING	1	
2-21	Q7409134201A	PCB TAPE_A	1	
2-22	Q9761173007	SCREW	1	
2-23	Q0961900101A	SCREW	5	
2-24	Q6003000101A	SCREW A	9	
2-25	Q7011041401A	XE TUBE CONTACT	2	
2-26	Q7409106001A	AF FPCB TAPE	1	
2-27	Q4103010801A	CON_SUB PCB	1	
2-28	Q0902007301A	MAIN CONDENSOR	1	
2-29	Q9008057201A	REFLECTOR PHOTO ASSY	1	
2-30	Q7211064702A	FRESNEL LENS	1	
2-31	Q7211064803B	REFLECTOR HOLDER	1	
2-32	Q7211064903A	AF PHOTO HOLDER	1	
2-33	Q7014004101A	REFLECTOR	1	
2-34	Q7011041501A	TRIG CONTACT	1	
2-35	Q4102005501A	TRIG FPCB	1	
2-36	Q4101025401A	PHOTO FPCB	1	
2-37	Q7409106001A	AF FPCB TAPE	1	
2-38	Q0902007601A	MIC	1	
2-39	Q0611003101A	XE-TUBE	1	
2-40	Q0601004801A	AF LED	1	
2-41	Q2704001401A	TRIGGER COIL	1	
2-42	Q0509000601A	PHOTO TR	1	
2-43	Q9008070301A	POWER PCB ASS'Y	1	
2-44	Q9008070501A	MAIN PCB ASSY	1	
2-45	Q9761174507	SCREW	1	
2-46	Q9761173507	SCREW	1	
2-47	Q7011041103A	BODY FRAME_A	1	
2-48	Q7309042102A	OLPF CUSHION	1	
2-49	Q2904001801A	OLPF-D2(5M)	1	
2-50	Q0961900301A	SCREW	2	
2-51	Q9008070101A	CCD PCB ASSY	1	
2-52	Q9002113301A	BARREL ASSY	1	V5
	Q9002128301A	BARREL ASSY	1	V5000
2-53	Q4104019401A	MAIN CU FPCB	1	

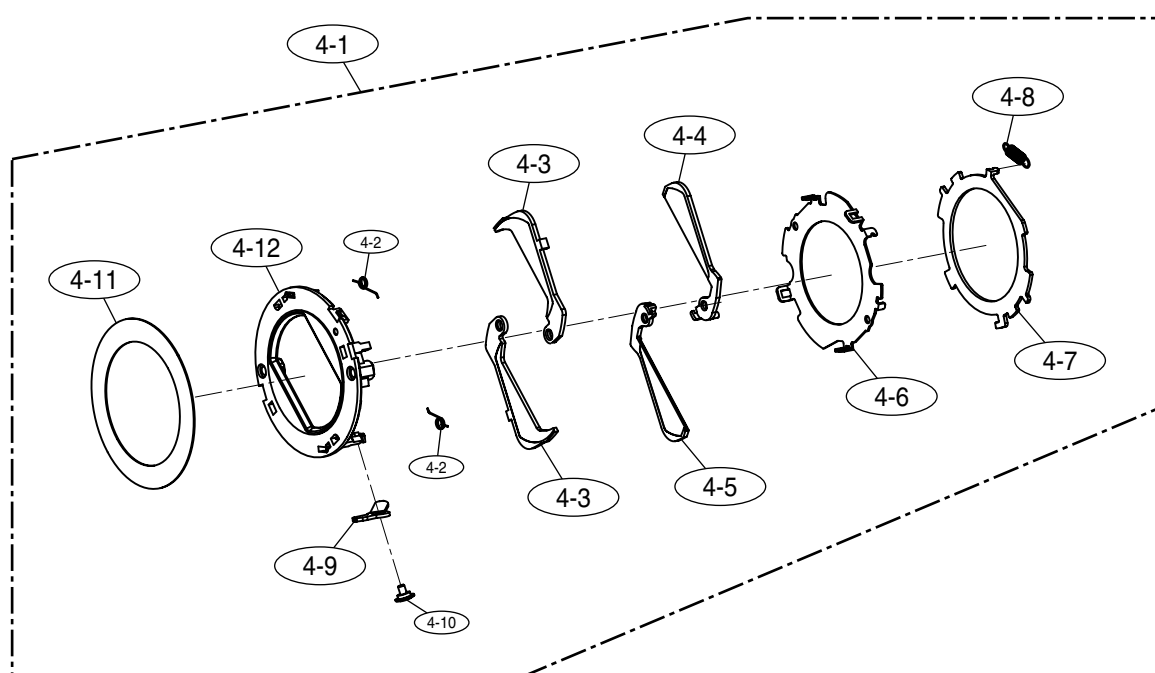
3. BARREL ASSEMBLY



► PARTS LIST

Fig.No.	Parts No.	Parts Name	Q'ty	Remarks
3-1	Q9002113201A	LENS BASE ASSY	1	
3-2	Q9002109201A	1st LENS ASSY	1	
3-3	Q0961900301A	SCREW	4	
3-4	Q0994913101A	SCREW	1	
3-5	Q3107001701A	ZOOM MOTOR	1	
3-6	Q6003018501A	MACHINE SCREW	1	
3-7	Q6003019201A	SCREW	2	
3-8	Q6031005801A	MOTOR WASHER	1	
3-9	Q6107048305A	3RD LENS BARREL SPRING	1	
3-10	Q7212159803A	ZOOM COVER	1	
3-11	Q7212159904A	AF HOLDER	1	
3-12	Q7212160001B	ZOOM MOTOR GEAR	1	
3-13	Q7212160101A	ZOOM GEAR_A	1	
3-14	Q7212160602B	ZOOM GEAR_E	2	
3-15	Q7212166006A	LENS BASE	1	
3-16	Q7411085401A	AF GUIDER BAR_A	1	
3-17	Q7411085501A	AF GUIDER BAR_B	1	
3-18	Q7411085601B	ZOOM GEAR_B	1	
3-19	Q7411085702A	ZOOM GEAR_C	1	
3-20	Q7411085802A	ZOOM GEAR_D	1	
3-21	Q7411085902A	ZOOM GEAR_A SHAFT	1	
3-22	Q7411090001B	ZOOM GEAR_C SHAFT	2	
3-23	Q9002109401A	3rd LENS ASSY	1	
3-24	Q7012069406C	AF LIMIT SPRING	1	
3-25	Q6001014001A	SCREW	1	
3-26	Q9008055501A	MAIN FPCB ASSY	1	
3-27	Q9611142007	SCREW	2	
3-28	Q7212159302A	GUIDE PLATE	1	
3-29	Q9002109301A	2ND LENS ASS'Y	1	
3-30	Q9005016301A	SHUTTER ASS'Y	1	
3-31	Q9761142507	SCREW	3	
3-32	Q7409123201A	SHUTTER PROTECT SHEET	1	
3-33	Q7411085305A	2ND MOVE PIN	3	
3-34	Q7012069202A	F PCB GUIDER	1	
3-35	Q7212171301A	ZOOM RING	1	V5
	Q7212171101A	ZOOM RING	1	V5000
3-36	Q7212158903A	1ST GUIDE BARREL	1	
3-37	Q7012069004B	1ST PUSH PLATE	1	
3-38	Q7212171201A	CAM BARREL	1	V5
	Q7212171001A	CAM BARREL	1	V5000
3-39	Q7212159503A	OUTER CAM BARREL	1	
3-40	Q9002113101A	OUTER GUIDE BARREL ASS'Y	1	
3-41	Q90021126001A	BARREL SUB ASS'Y	1	V5
		BARREL SUB ASS'Y	1	V5000

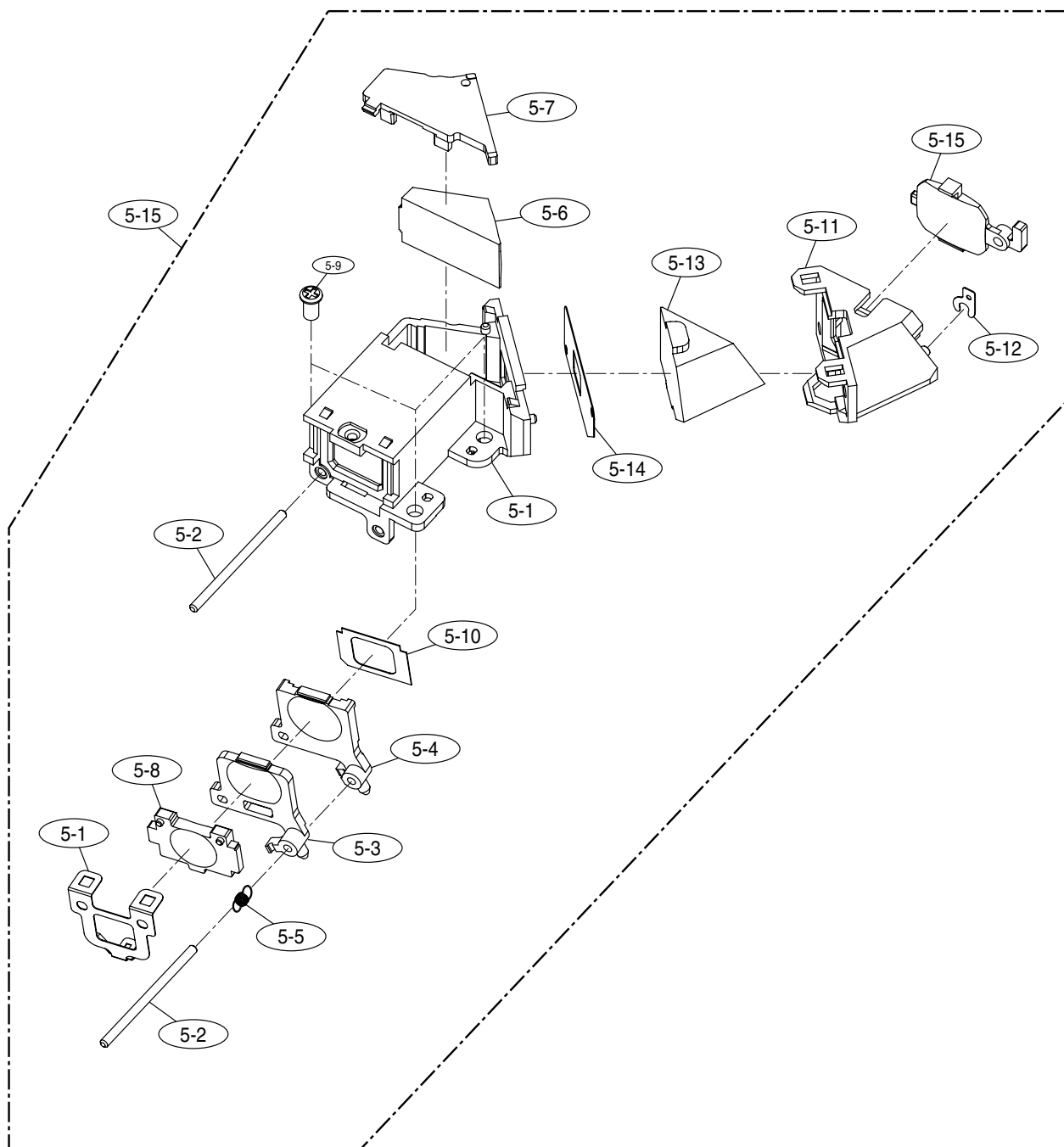
4. BARRIER ASSEMBLY



► PARTS LIST

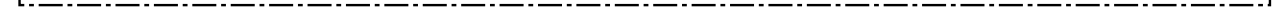
Fig.No.	Parts No.	Parts Name	Q'ty	Remarks
4-1	Q9002113901A	BARRIER ASS'Y	1	
4-2	Q6107051702A	NEW CLOSE SPRING	2	
4-3	Q7212160403B	BARRIER-C	2	
4-4	Q7212167804A	NEW BARRIER-A	1	
4-5	Q7212167902A	NEW BARRIER-B	1	
4-6	Q7012073502A	NEW BARRIER BASE	1	
4-7	Q7012073403A	NEW LEVER-B	1	
4-8	Q6107051802A	NEW OPEN SPRING	1	
4-9	Q7012073301A	NEW LEVER-A	1	
4-10	Q7411095501A	NEW LEVER PIN	1	
4-11	Q7409120802B	FRONT PANEL TAPE	1	
4-12	Q7212167704A	NEW FRONT PANEL	1	

5. FINDER ASSEMBLY



► PARTS LIST

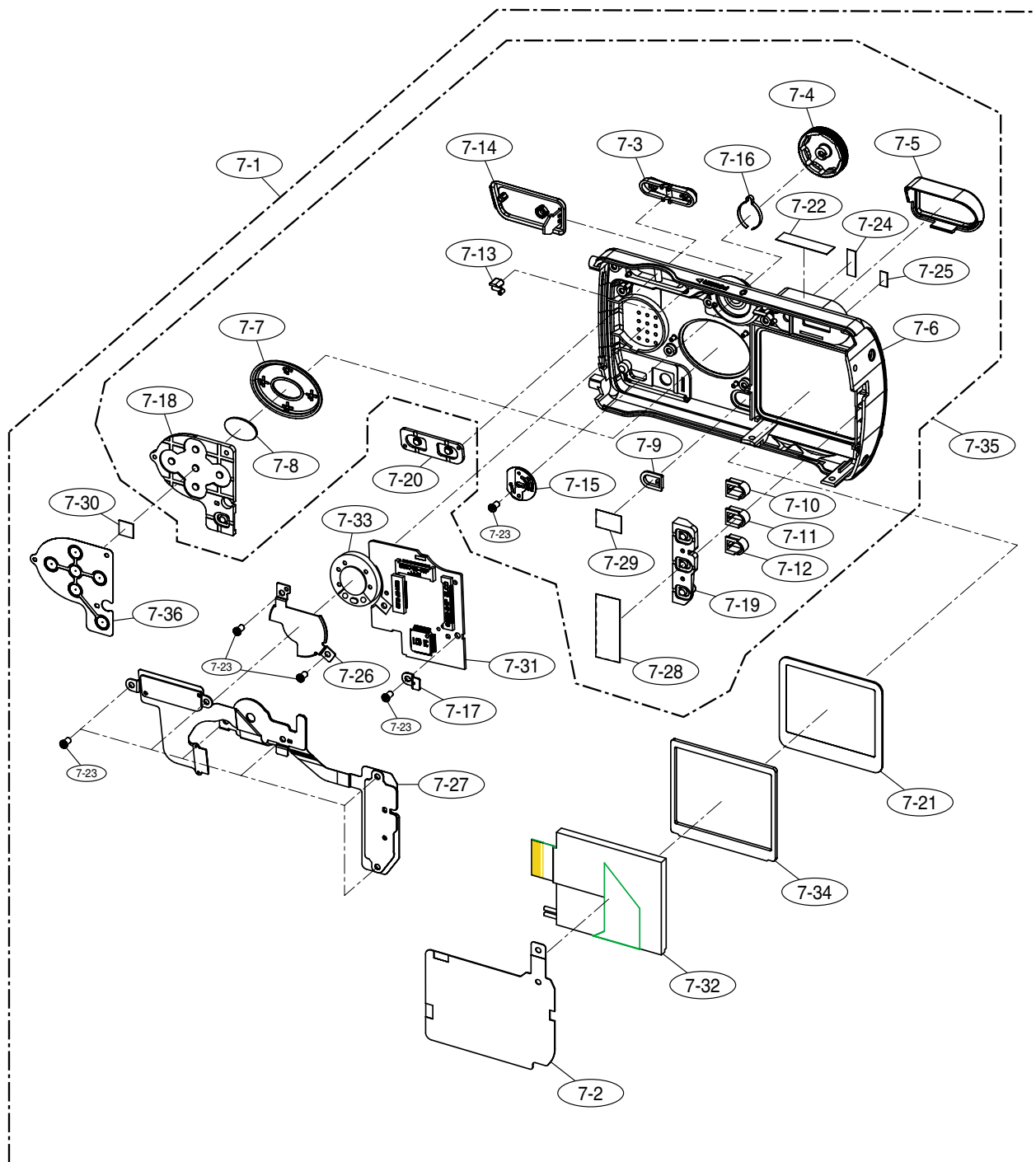
Fig.No.	Parts No.	Parts Name	Q'ty	Remarks
5-1	Q7213031706A	FINDER BASE	1	
5-2	Q7411086201A	FINDER SHAFT	2	
5-3	Q6721007403A	CO LENS	1	
5-4	Q9003018401A	VA LENS ASS'Y	1	
5-5	Q6107048501A	FINDER SPRING	1	
5-6	Q6726002002A	PRISM-A	1	
5-7	Q7213031903A	FINDER COVER	1	
5-8	Q9003018501A	OB LENS ASS'Y	1	
5-9	Q6001010601A	SCREW	1	
5-10	Q7013014201A	FINDER MASK	1	
5-11	Q7213031806A	EP HOLDER	1	
5-12	Q6031005903A	EP WASHER 1	1	
	Q6031006003A	EP WASHER 2	1	
	Q6031006103A	EP WASHER 3	1	
5-13	Q6721007503A	EP LENS	1	
5-14	Q6726002101A	PRISM-B	1	
5-15	Q9003019801A	FINDER ASS'Y	1	



► PARTS LIST

Fig.No.	Parts No.	Parts Name	Q'ty	Remarks
6-1	Q9007207201A	FRONT COVER ASS'Y- DIGIMAX V5	1	
	Q9007209301A	FRONT COVER ASS'Y-KENOX DIGIMAX V5	1	
	Q9007211001A	FRONT COVER ASS'Y- DIGIMAX V5000	1	
	Q9007211101A	FRONT COVER ASS'Y-KENOX DIGIMAX V500	1	
6-2	Q7409134402A	STROBO SHEL D	1	
6-3	Q7117007402A	FRONT COVER- DIGIMAX V5	1	
	Q7117007601A	FRONT COVER-KENOX DIGIMAX V5	1	
	Q7117008201A	FRONT COVER- DIGIMAX V5000	1	
	Q7117008301A	FRONT COVER-KENOX DIGIMAX V500	1	
6-4	Q7217304502A	FRONT INNER COVER	1	
6-5	Q7409159801A	STROBO SHIELD_A	1	
6-6	Q7409159901A	SHIELD FORM A	1	
6-7	Q7409156001A	FRONT TAPE	1	
6-8	Q7217304901A	GRIP	1	
6-9	Q7004000103A	DECO RING	1	
6-10	Q7217255702A	FINDER WINDOW	1	
6-11	Q7409139801A	FRONT COVER TAPE	3	
6-12	Q6003028101A	SCREW	3	
6-13	Q9007207301A	TOP COVER ASSY	1	V5
	Q9007211201A	TOP COVER ASSY	1	V5000
6-14	Q0960213901A	BOND TAPE-C	1	
6-15	Q7217254501A	RELEASE BUTTON	1	
6-16	Q7217254602B	RELEASE DECO	1	V5
	Q7217276401A	RELEASE DECO	1	V5000
6-17	Q7217254701A	POWER BUTTON	1	V5
	Q7217276501A	POWER BUTTON	1	V5000
6-18	Q7217254802A	POWER PLATE	1	
6-19	Q7217308401A	TOP COVER	1	V5
	Q7217317901A	TOP COVER	1	V5000
6-20	Q6107050801A	POWER SPRING	1	
6-21	Q6107044602A	RELEASE SPRING	1	
6-22	Q7409145101A	RELEASE WASHER	1	
6-23	Q6735002101A	REMOCON FILTER	1	
6-24	Q7217254102A	BOTTOM COVER	1	V5
	Q7217276001A	BOTTOM COVER	1	V5000
6-25	Q7217308201A	CONNECTOR COVER	1	V5
	Q7217318001A	CONNECTOR COVER	1	V5000
6-26	Q7409032001A	MAIN PCB TAPE-A	1	
6-27	Q7409135901A	PHOTO SHIELD	1	

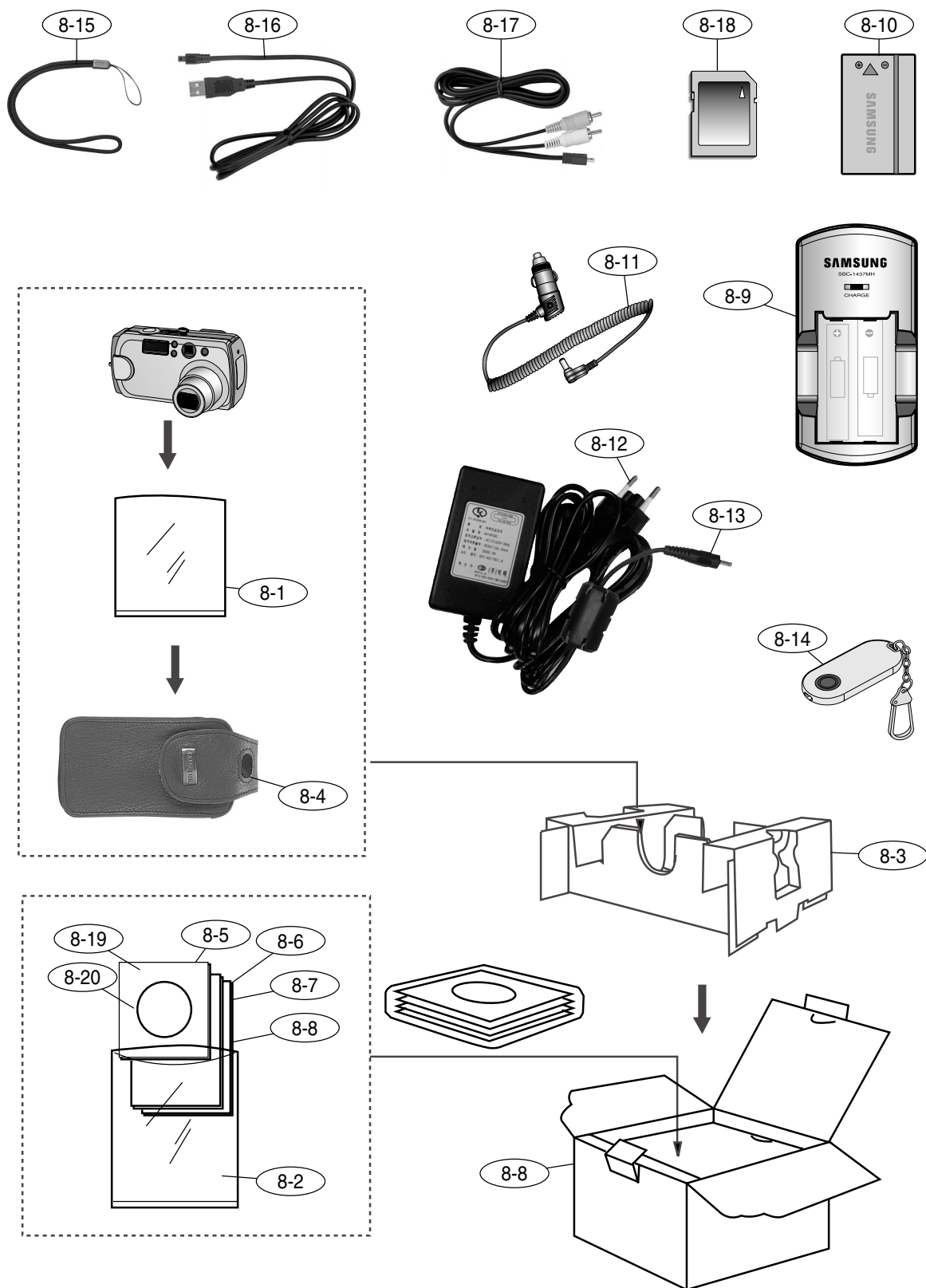
7. BACK COVER ASSEMBLY



► PARTS LIST

Fig.No.	Parts No.	Parts Name	Q'ty	Remarks
7-1	Q9007206901A	BACK COVER ASS'Y	1	V5
	Q9007211301A	BACK COVER ASS'Y	1	V5000
7-2	Q4101026001A	LCD CU F PCB	1	
7-3	Q7217254902A	ZOOM BUTTON	1	
7-4	Q7217308501A	MODE DIAL	1	V5
	Q7217317801A	MODE DIAL	1	V5000
7-5	Q7309036902A	EP RUBBER	1	
7-6	Q7217253903A	BACK COVER	1	V5
	Q7217275801A	BACK COVER	1	V5000
7-7	Q7217255101A	NAVI BUTTON	1	
7-8	Q7217255201A	OK BUTTON	1	
7-9	Q7217255302A	PLAY BUTTON	1	
7-10	Q7217255402A	FUNCTION BUTTON_1	1	
7-11	Q7217255502A	FUNCTION BUTTON_2	1	
7-12	Q7217255602A	FUNCTION BUTTON_3	1	
7-13	Q7217256002A	LAMP WINDOW	1	
7-14	Q7217256103A	JACK DOOR	1	V5
	Q7217277301A	JACK DOOR	1	V5000
7-15	Q9008060101A	MODE CONTACT ASSY	1	
7-16	Q7017033702B	MODE CLICK PLATE	1	
7-17	Q7017034302A	LCD P_PLATE	1	
7-18	Q7309037101B	NAVI RUBBER	1	
7-19	Q7309037201A	FUNCTION RUBBER	1	
7-20	Q7309037301A	ZOOM RUBBER	1	
7-21	Q7217255801A	TFT LCD WINDOW	1	
7-22	Q7409128701A	EP RUBBER TAPE	1	
7-23	Q9761173007	SCREW	10	
7-24	Q0958905801A	FRONT TAPE-A	1	
7-25	Q0960213901A	BOND TAPE-C	1	
7-26	Q7011041902A	SPEAKER FRAME	1	
7-27	Q9008056701A	MODE FPCB ASSY	1	
7-28	Q7409138202C	FUNCTION TAPE_2	1	
7-29	Q7409138401C	LCD TAPE_2	1	
7-30	Q7409141101A	NAVI CUSHION	4	
7-31	Q9008069701A	LCD PCB SMD ASSY	1	
7-32	Q0704009501A	TFT LCD	1	
7-33	Q4719002901A	SPEAKER	1	
7-34	Q7409128402A	LCD SPONGE	1	
7-35	Q9007212501A	BACK COVER SUB ASS'Y	1	V5
	Q9007213101A	BACK COVER SUB ASS'Y	1	V5000
7-36	Q7409129002A	NAVI BUTTON SHEET	1	

8. PACKING ITEMS



► PARTS LIST

Fig.No.	Parts No.	Parts Name	Q'ty	Remarks
8-1	QP960210101A	PE BAG (CAMERA)	1	
8-2	Q6909011601A	PE BAG (ACCESSORY)	1	
8-3	Q6901172401A	INNER PAD- DIGIMAX V4	1	
8-4	Q6904024701A	POUCH-KENOX	1	
8-5	Q6806195501A	Q/GUIDE_KENOX V5_KOR	1	
	Q6806195601A	Q/GUIDE_DIGIMAX V5_ENG	1	
	Q6806195701A	Q/GUIDE_DIGIMAX V5_GER	1	
	Q6806195801A	Q/GUIDE_DIGIMAX V5_FRA	1	
	Q6806195901A	Q/GUIDE_DIGIMAX V5_SPA	1	
	Q6806196001A	Q/GUIDE_DIGIMAX V5_ITA	1	
	Q6806196101A	Q/GUIDE_DIGIMAX V5_CHI(T)	1	
	Q6806196201A	Q/GUIDE_DIGIMAX V5_DUT	1	
	Q6806196301A	Q/GUIDE_DIGIMAX V5_POR	1	
	Q6806196401A	Q/GUIDE_DIGIMAX V5_SWE	1	
	Q6806196501A	Q/GUIDE_DIGIMAX V5_DEN	1	
	Q6806196601A	Q/GUIDE_DIGIMAX V5_FIN	1	
	Q6806196701A	Q/GUIDE_DIGIMAX V5_RUS	1	
	Q6806196801A	Q/GUIDE_DIGIMAX V5_CHI(S)	1	
	Q6806209501A	Q/GUIDE_DIGIMAX V5_CZE	1	
	Q6806209601A	Q/GUIDE_DIGIMAX V5_HUN	1	
	Q6806209701A	Q/GUIDE_DIGIMAX V5_POL	1	
	Q6806209801A	Q/GUIDE_DIGIMAX V5_IND	1	
8-6	Q6806196901A	U/MANUAL_KENOX V5_KOR	1	
	Q6806197001A	U/MANUAL_Digimax V5_ENG	1	
	Q6806197101A	U/MANUAL_Digimax V5_GER	1	
	Q6806197201A	U/MANUAL_Digimax V5_FRA	1	
	Q6806197301A	U/MANUAL_Digimax V5_SPA	1	
	Q6806197401A	U/MANUAL_Digimax V5_ITA	1	
	Q6806197501A	U/MANUAL_Digimax V5_CHI(T)	1	
	Q6806197601A	U/MANUAL_Digimax V5_DUT	1	
	Q6806197701A	U/MANUAL_Digimax V5_POR	1	
	Q6806197801A	U/MANUAL_Digimax V5_SWE	1	
	Q6806197901A	U/MANUAL_Digimax V5_DEN	1	
	Q6806198001A	U/MANUAL_Digimax V5_FIN	1	
	Q6806198101A	U/MANUAL_Digimax V5_RUS	1	

III . EXPLODED VIEWS AND PARTS LIST

Fig.No.	Parts No.	Parts Name	Q'ty	Remarks
	Q6806198201A	U/MANUAL_Digimax V5_CHI(S)	1	
	Q6806209901A	U/MANUAL_Digimax V5_CZE	1	
	Q6806210001A	U/MANUAL_Digimax V5_HUN	1	
	Q6806210101A	U/MANUAL_Digimax V5_POL	1	
	Q6806210201A	U/MANUAL_Digimax V5_IND	1	
8-7	Q6807002601F	WARRANTY CARD_KOREA	1	
	Q6807003003S	WARRANTY CARD_EXP	1	
	Q6807003802D	WARRANTY CARD_UK	1	
	Q6807010902B	WARRANTY CARD_RUS(3 YEARS)	1	
	Q6807011301B	WARRANTY CARD_TSOE(CHINA)	1	
8-8	Q6901190701A	G/T BOX_KENOX V5_KOR	1	
	Q6901190801A	G/T BOX_DIGIMAX_V5_EXP/AUS	1	
	Q6901190901A	G/T BOX_DIGIMAX_V5_USA/CAN	1	
	Q6901194101A	G/T BOX_DIGIMAX V5000_EXP/AUS	1	
	Q6901194201A	G/T BOX_DIGIMAX V5000_USA/CAN	1	
	Q6901195001A	G/T BOX_KENOX V500_KOR	1	
	Q6901196501A	G/T BOX_DIGIMAX_V5_EXP/AUS_SLB-1437	1	
	Q6901197001A	G/T BOX_DIGIMAX_V5000_EXP/AUS_SLB-1437	1	
8-9	4309-0009-01A	LI-ION CHARGER	1	
8-10	4301-0024-01A	LI-ION BATTERY	1	
8-11	3801-0027-01A	CAR CHARGE CABLE	1	
8-12	3719-0021-01A	AC ADAPTOR	1	
	3719-0024-01A	AC ADAPTOR-TEOE	1	
8-13	3801-0030-01A	AC CODE CABLE-KOREA	1	
	3801-0031-01A	AC CODE CABLE-USA	1	
	3801-0032-01A	AC CODE CABLE-EXP	1	
	3801-0033-01A	AC CODE CABLE-UK	1	
	3801-0034-01A	AC CODE CABLE-AUS	1	
8-14	9010-0443-01A	REMOCON ASS'Y	1	
8-15	7409-1349-01A	STRAP	1	
8-16	3802-0020-01A	USB CABLE	1	
8-17	3802-0019-01A	A/V CABLE	1	
8-18	4602-0006-01A	SD CARD-32MB	1	
8-19	Q4609007601A	DRIVER+VIEW+Adobe Photoshop Elements	1	
	Q4609007701A	DRIVER+VIEW+ArcSoft Photoimpression	1	

9. INITIAL PARTS LIST

PAGE	PARTS NO.	PARTS NAME	SPEC	SYMBOL
30	Q7011043404A	BATTERY CONTACT	SUS304 CSP-H	
30	Q7217253502A	BATTERY COVER	V5	
30	Q7217275501A	BATTERY COVER	V5000	
32	Q9008055501A	MAIN F-PCB ASS'Y		
32	Q9002104301A	AF MOTOR		
32	Q0608000701A	PHOT REFLECTER		
32	Q0608000901A	PHOT INTERRUPTER		
32	Q9002109401A	3rd BARREL ASS'Y		
32	Q9005016301A	SHUTTER ASS'Y		
34	Q9002109901A	BARRIER ASS'Y		
28	Q7012074102A	DECORATION RING	V5	
28	Q7012074901A	DECORATION RING	V5000	
40	Q9008056701A	MODE FPCB ASSY		
40	Q7217308501A	MODE DIAL	V5	
40	Q7217317801A	MODE DIAL	V5000	
40	Q7217256103A	JACK DOOR	V5	
40	Q7217277301A	JACK DOOR	V5000	
40	Q7217255801A	TFT LCD WINDOW		
38	Q7217255702A	FINDER WINDOW		
38	Q7217254102A	BOTTOM COVER	V5	
38	Q7217276001A	BOTTOM COVER	V5000	
40	Q0704009501A	TFT LCD		
30	Q0902007301A	MAIN CONDENSOR	115UF/310V	
74	Q3722000801A	DC JACK		J6
74	Q2601000901A	OSC TANS		T1
72	Q1407000601A	IGBT		Q21
72	Q3403000301A	RELEASE SWITCH	EVQPRBA09	S2
72	Q3408000701A	POWER SWITCH		S1
72	Q3601000601A	CHIP FUSE		F1
74	Q3708004601A	USB/VIDEO CONNECTOR	CAM-G38	J4
30	Q0611003101A	XE-TUBE		
30	Q2704001401A	TRIG TANS		

IV. ADJUSTMENT

1. Digital camera service

To take a digital camera service (Repair, Tuning and Checking), the following equipments have to be arranged.

The sequences for the camera service are as shown alongside.

1. Receiving the camera

When receiving a camera, check whether the accessories are included or not and ask the customer exact problems.

2. Checking the camera

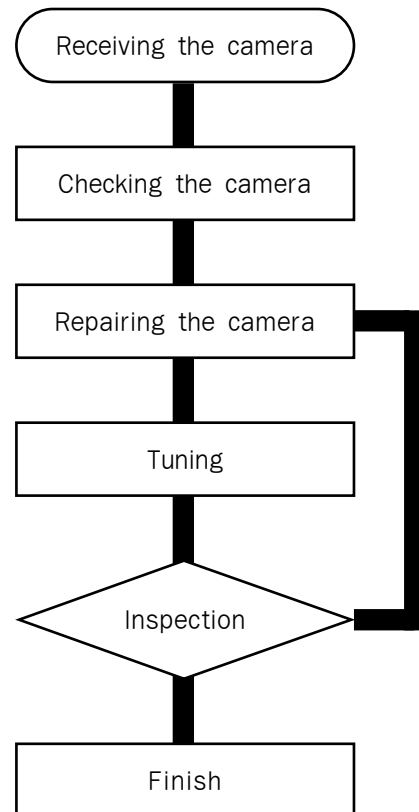
Checking the camera with priority given to the exact problems to find overall malfunctions.

3. Repairing the camera

Repair the camera malfunctions found at the step 2.

4. Inspection

After repairing the camera, inspect all of the camera functions. (See p.56)



1. Checking the camera and Inspection



2. Repairing the camera



3. Tuning



※ The illustrations may be different from the real display in accordance with the camera model.

1) Equipments for checking and inspection

To check and inspect the camera malfunction, the following equipments have to be arranged.



No.	Device	Description
1	PC for inspection	- Installing a digital camera driver or Checking the removable device - Checking the file transference(upload and download) - Playing back the still image or movie clip
2	HARD RACK, by Operating System	For the compatibility test. by the O/S(WIN 98SE, ME, 2000, XP)
3	Driver CD, by camera models	S/W CDs for installing a camera driver
4	USB HUB	For using all kinds of USB cable at a time
5	USB cable, by camera models	For checking file transference(upload and download) by camera models
6	Chart for checking colors	For checking color and image resolution before or after camera repair
7	TV MONITOR	For checking video output and whether NTSC/PAL can be selected
8	Memory card by types	For checking card recognition by brands and sizes
9	A/V CABLE	For checking whether the image can be displayed on a external monitor
10	POWER SUPPLY	For checking camera power by camera models
11	Power cable by camera models	

IV. ADJUSTMENT

2) Equipments for camera repair

To repair the camera, the following equipments have to be arranged.



No.	Device	Description
1	A set of tools	Pincette/ Screwdriver/ Discharger etc.
2	Cleaning paper	For cleaning camera lens and camera parts
3	Detergent container	For containing detergent
4	Parts case	For keeping various camera parts and disassembled camera parts
5	Anti-electricity mat	For repairing table made from anti-electricity material
6	Soldering sponge	For removing solder
7	Air pump	For removing various kinds of dust
8	LIGHT BOX	Color temperature 5100
9	POWER SUPPLY	7.5V 2.0A
10	Soldering iron	Soldering iron that can select temperature
11	Tester	Portable tester that can test AC/DC, Ω , μ ect.
12	BATTERY & AC ADAPTOR	AC ADAPTOR & Rechargeable battery by camera models - SBP3603/ SBP3605/ SBP3606 - SLB 1437 - SBP 1103

3) Equipments for camera tuning

To tune the camera, the following equipments have to be arranged.



No.	Device	Description
1	AE TESTER	For tuning AE and STROBE
2	AWB LIGHT SOURCE BOX	For checking and tuning AWB
3	COLOR chart	For checking AWB and color of images
4	AF chart	For tuning AF
5	Chart for checking resolution	For checking image resolution
6	TRIPOD	

IV. ADJUSTMENT

4) Check list for Digital camera repair

To check the digital camera functions before/after repairing, refer to the check list.

No.	Checking item	Check point
1	Check the exterior of a camera.	- Check the scratch, stain, misprint. - Check whether the screws are turned firmly. - Check the corrosion of terminal, bad exterior. - Do chemical and glue test to the printing/ painting parts.
2	Insert the adapter.	- Check the connecting and contact condition.
3	Check the battery cover.	- Insert the batteries with the correct polarity and check the contact condition. - Check whether the cover is opened easily after closing.
4	Check the card condition after inserting the card.	- The card can be inserted or removed easily and cover is closed firmly. - Do inserting and removing card(SD/MMC) test two times. → The card must be inserted firmly and has not to spring out. - Insert the card/batteries and give a little impact on the camera. The camera must recognize the card and "CARD LOCKED" message has not to be displayed.
5	Insert the Video cable.	- When the cable is inserted, check whether the images play back on the external monitor.
6	Turn on the camera.	- Check whether the green LED is blinking, SAMSUNG LOGO is on and the start-up sound sounds. - Check the "L" and "FINE" icon on the LCD monitor. - Check whether the AE function is correct at the low light and high light condition. - Check whether the "beep" sounds on the recording and movie clip mode. → The "beep" can be sounded in the microphone part. Check that in a quiet room.
7	Press the zoom W/T button.	- Press the zoom W/T button with the viewfinder. → Check dust and percentage of the frame seen, zoom rate. - Press the zoom W/T button with the TFT-LCD monitor. → Check the zoom rate and whether the zoom bar moves smoothly.
8	Macro focus.	- Check whether the Macro icon(Flower) is displayed on the LCD monitor. - Check the AF in the Macro focus with the TFT-LCD monitor.
9	Normal focus.	- Check whether the subject captured from 2M has over or under exposure and the focus is clear.

No.	Check item	Check point
10	MANUAL focus.	- Check whether the icon and counter are displayed on the LCD monitor.
11	Take a movie clip with TELE zoom during 10 seconds.	- Check whether the recording time is displayed and there are a noise, dim frame and discontinuous frame in the movie clip.
12	Take a chart with TELE zoom in a low light condition.	- Check whether the zoom rate is changed and there are unclear part, noise and dim part in the image. - The distance from the subject is 2M and have to use the FILL IN flash.
13	Play back a image with the TFT LCD monitor.	- Check whether the PLAY mode can be selected without any problem and there are any noise, frame shaking and discontinuous frame. - Check the voice recorded in the still image and the movie clip. - Check whether the still image can be enlarged correctly with the 5 function button.
14	Start the slide show in the PLAY mode.	- Select 2 sec. of slide show interval time and check whether there are any noise, image shaking and discontinuous frame.
15	Try to rotate the mode dial.	- Check whether the mode dial is rotated with the equal force. - Check whether each camera mode can be recognized correctly.
16	Download a image from a PC with USB cable and check the image quality in a external monitor.	- Check whether there are unclear part, dim part, noticeable flare, noise, ghost image and smear.
17	Format the card in the PLAY mode.(Delete all images in the PLAY mode)	- Check whether all images are deleted.
18	Check whether there is no image and reset the camera. Remove the card and turn off the camera.	- Check whether the "NO IMAGE" message is displayed on the LCD monitor. - Check whether the LARGE, FINE icon and 0018 number are displayed. - Check whether the camera power is turned off without any problem.

IV. ADJUSTMENT

2. Tuning item by changed parts

After changing the electronic parts of Digimax V5, the parts have to be tuned in accordance with the tuned items. The items listed on the table are have to be tuned after changing.

	PROCESS CODE	MAIN PCB	SUB PCB	BARREL ASS' Y	CCD
FIRMWARE UPGRADE		●		●	
CCD DEFECT CELL	6	●			●
PUNT ADJ.	2	●		●	●
SHUTTER CLOSE TIME ADJ.	7	●		●	●
BACK LASH ADJ.	9	●		●	●
FLASH ADJ.	13	●	●		
BATTERY LEVEL	5	●	●		
BURNING TEST	10	●	●	●	●
EEPROM READ	16				
EEPROM WRITE	17				

1) Equipments for tuning

► Equipments

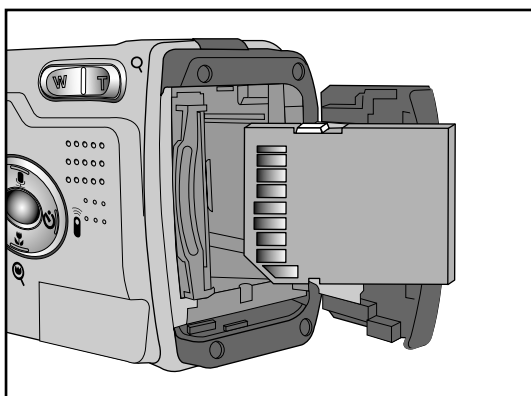
- AE TESTER : AE TESTER can test upto LV 15.7
- POWER SUPPLY : 7V/2A

► Chart

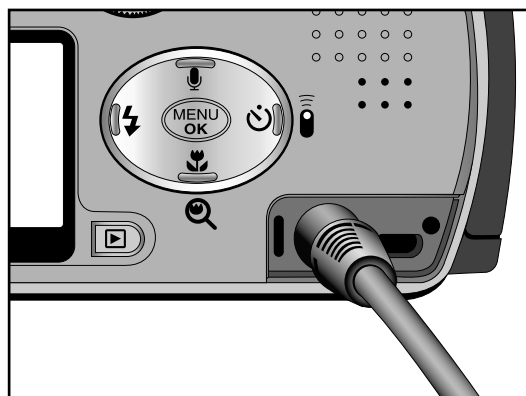
- Focus chart : Download "AFCHART.pdf" file from the Samsung camera Service site(www.ssa.net) and print it.

2) Checking the camera firmware version

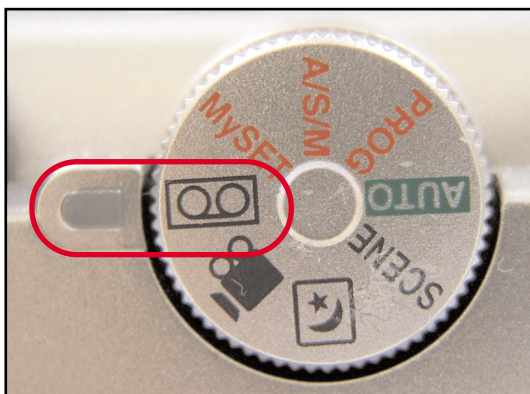
1. Remove all kinds of card.



2. Use the AC adapter or fully charged batteries.

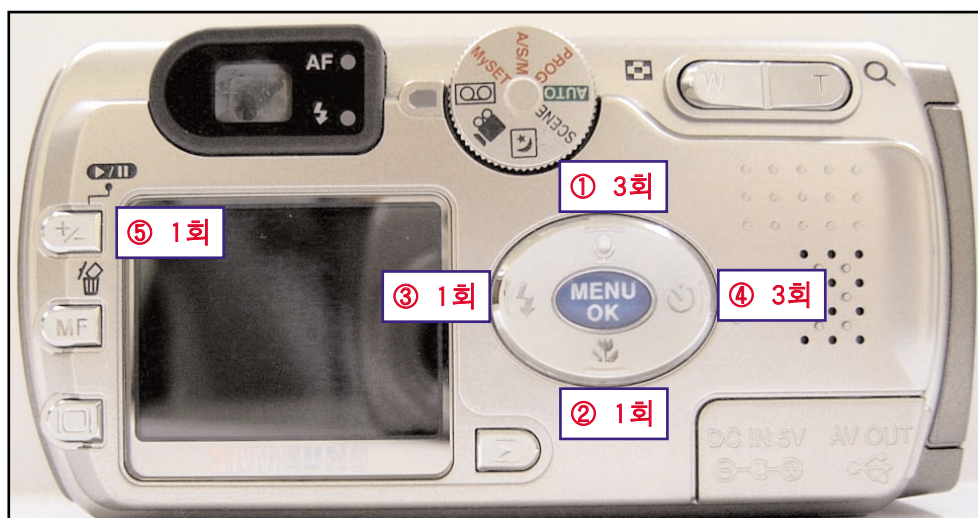


3. Rotate the mode dial to the VOICE RECORDING mode and turn on the camera.



4. Press the buttons as following order.

(UP button: 3 times → DOWN button: 1 time → LEFT button: 1 time → RIGHT button: 3 times
→ +/- button : 1 time)



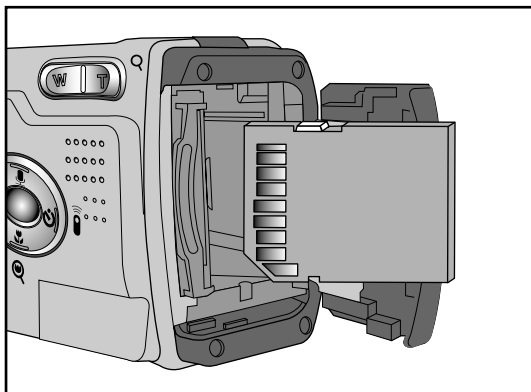
5. After pressing the buttons as shown above, the firmware version will display on the LCD monitor.



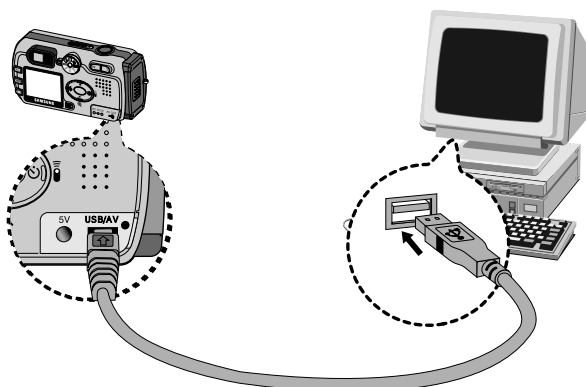
IV. ADJUSTMENT

3) Downloading the camera firmware

1. Insert the SD card and format the card.



2. Connect the camera to a PC.



3. Access to the service site(www.ssa.net) and click the Digital Driver menu.



- Bulletin Boards
- Service & Support
 - Service Info.(Digital)
 - Service Info.(35mm)
 - Digital Camera Driver**
 - Service Manual (Digital)
 - Service Manual (35mm)
 - Users Manual
- Spare Parts
- Jig & Tools

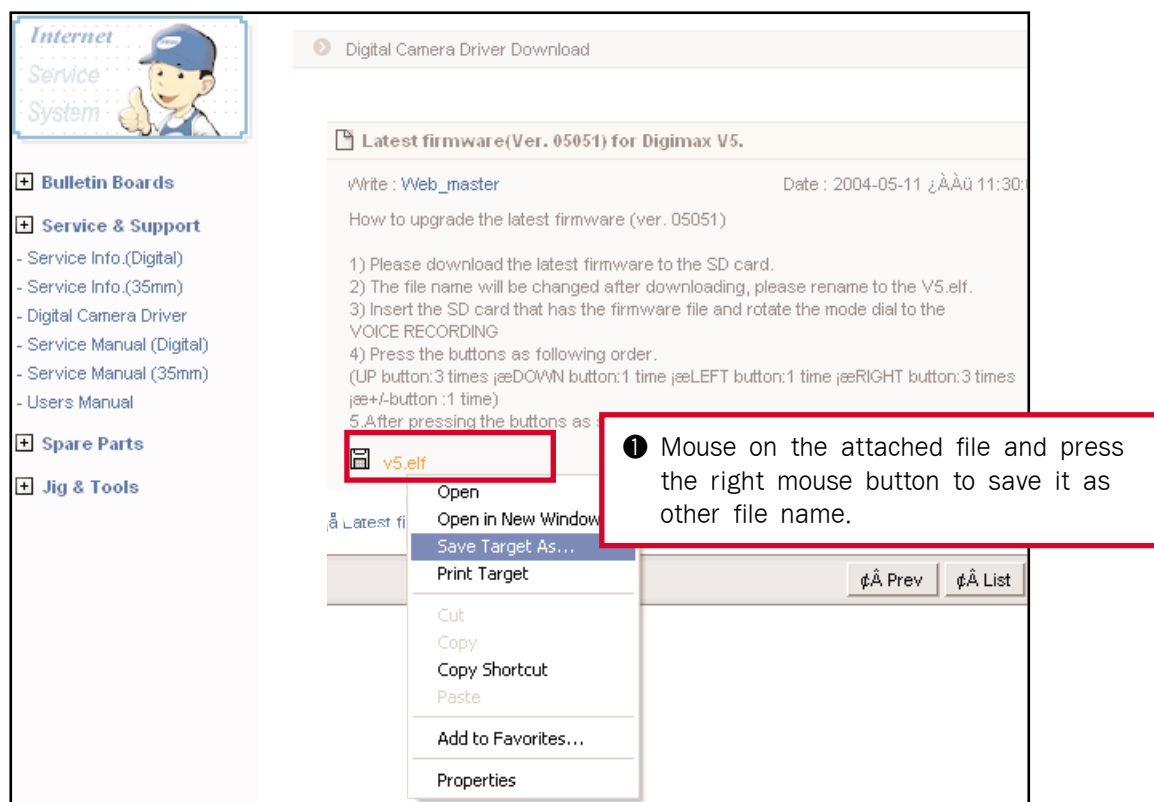
Digital Camera Driver Download

Record count : 53 Current page : 1/6

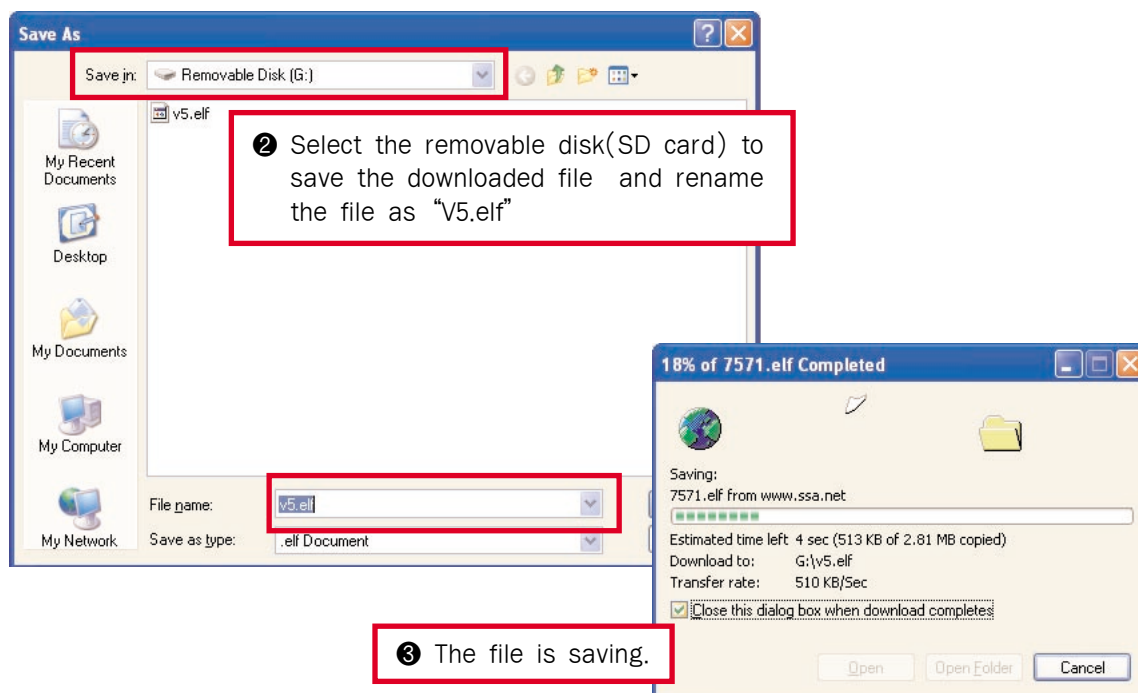
No	Title	Model
53	 Latest firmware(Ver. 05051) for Digimax V5.	DIGIMAX V5
52	 Latest firmware(Ver. 04261) for Digimax 370.	DIGIMAX 370
51	 Latest firmware(Ver. 04261) for Digimax 430.	DIGIMAX 430
50	Latest firmware(Ver. 1.30) for Digimax 250	DIGIMAX 250
49	Latest firmware(Ver. 02231) for Digimax U-CA 3	DIGIMAX U-CA 3
48	Latest firmware(Ver. 3034) for Digimax 301	DIGIMAX 301
47	Latest firmware(Ver.02131) for Digimax U-CA 3.	DIGIMAX U-CA 3
46	Latest firmware(Ver. 2110) for Digimax 300	DIGIMAX 300
45	Latest firmware(Ver. 1.28) for Digimax 101	DIGIMAX 101
44	Latest firmware(ver. 3014) for Digimax 301	DIGIMAX 301

[1] [2] [3] [4] [5] [6]

2. Rename the file as "V5.ELF" and download the file to the removable disk.

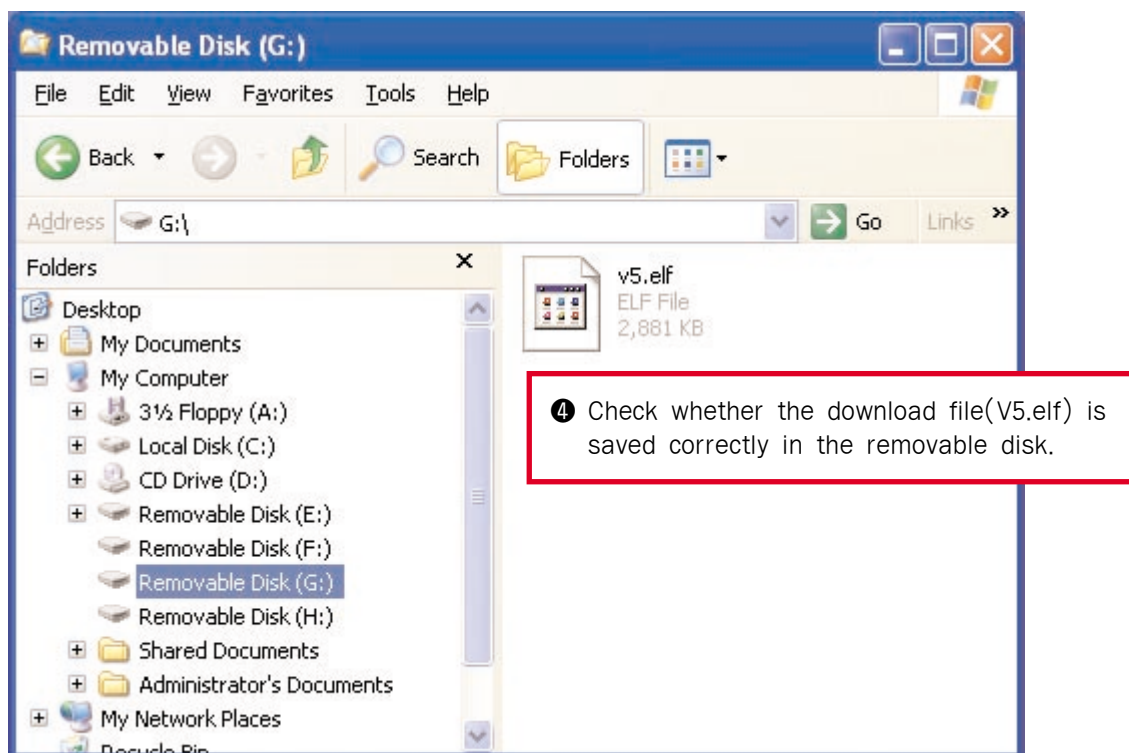


3. To download the attached file, mouse on the file and press the right mouse button. Select the [save it as other file name] menu and do as follows.



IV. ADJUSTMENT

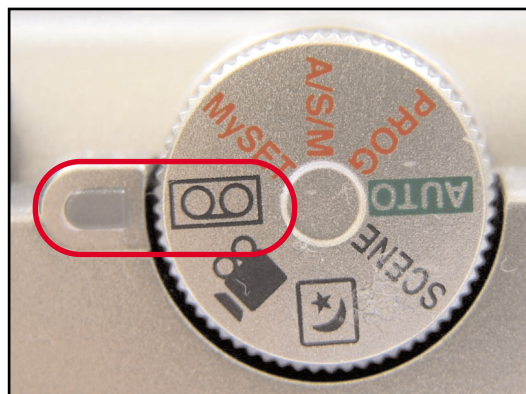
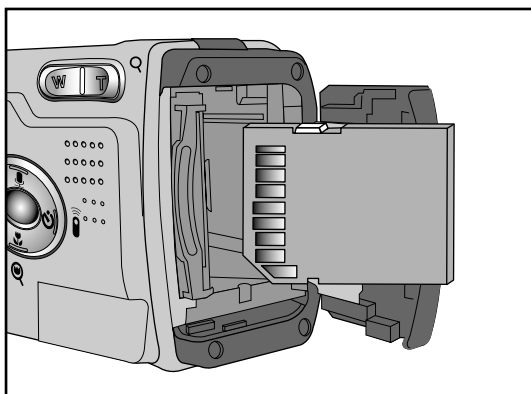
4. Check whether the download file is saved correctly in the SD card.



5. If the file is saved correctly, remove the USB cable from the PC.

4) Upgrading the camera firmware

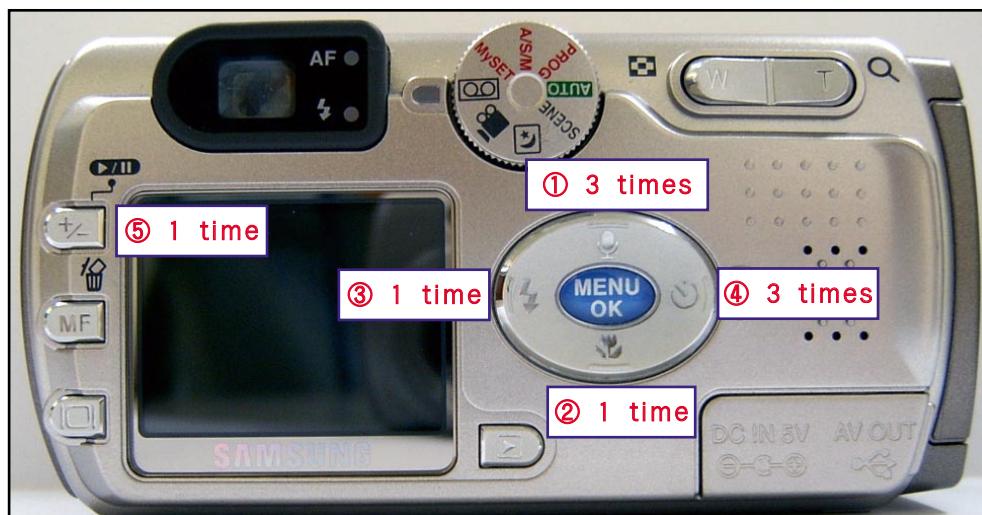
1. Insert the SD card that has the firmware file and rotate the mode dial to the VOICE RECORDING mode. Turn on the camera.



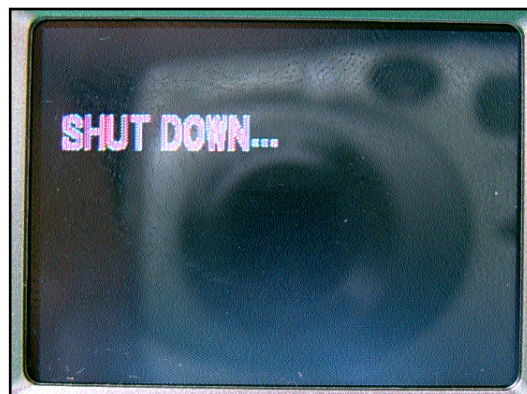
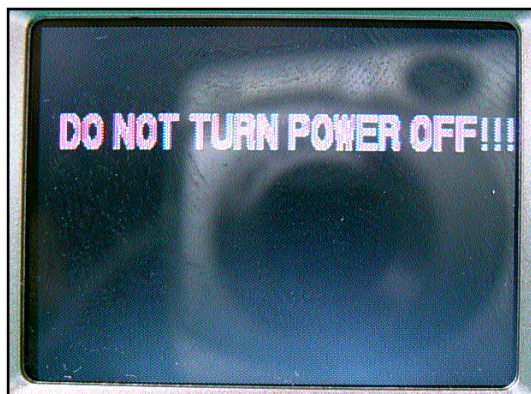
※ When you upgrade the camera firmware,
you have to use the AC ADAPTOR or fully charged batteries.

2. Press the buttons as following order.

(UP button: 3 times → DOWN button: 1 time → LEFT button: 1 time → RIGHT button: 3 times
→ +/- button : 1 time)



3. After pressing the buttons as shown above, the firmware will upgrade automatically.



4. After upgrading the firmware, the camera will be turned off.

IV. ADJUSTMENT

3. Tuning

To tune all items, all kinds of code by items have to be inserted in program file and saved it to the SD card as TXT file type. The codes are listed below.

〈Description of TXT file〉

Codes of program	Description of codes
〈1〉 PROCESS CODE ;	Insert the PROCESS CODE that you want to tune
〈2〉 65535 ;	65535 --> DEFAULT
〈3〉 PROCESS CODE ;	Insert the PROCESS CODE that you want to tune.
〈4〉 0 OR 1 ;	Insert 1 to write tuned codes to the EEPROM.
〈5〉 0 OR 1 ;	To save the result data to the SD card, insert 1 or 0.
〈6〉 CONDITION ;	Insert each tuning item's condition.(See each tuning item)
〈7〉 SPEC ;	Insert each tuning item's condition.(See each tuning item)
〈8〉 NOT	Not used
〈9〉 NOT	Not used
〈10〉 NOT	Not used
〈11〉 NOT	Not used
〈12〉 NOT	Not used
〈13〉 NOT	Not used
〈14〉 0	0 --> DEFAULT
〈15〉 0	0 --> DEFAULT

If the program is saved as shown above, the file name has to be saved as V5ADJ.TXT.

※ After inserting each code, [;] mark has to be inserted.

1) CCD DEFECT CELL

After changing the MAIN PCB and CCD, tune the DEFECT CELL of CCD.

〈Codes of program〉

BASIC PROGRAM	CCD DEFECT CELL
〈1〉 PROCESS CODE ;	〈1〉6;
〈2〉 65535 ;	〈2〉65535;
〈3〉 PROCESS CODE ;	〈3〉6,0;
〈4〉 0 OR 1 ;	〈4〉1;
〈5〉 0 OR 1 ;	〈5〉0;
〈6〉 CONDITION ;	〈6〉1,120,0,6;
〈7〉 SPEC ;	〈7〉12000,0;
〈8〉 NOT	〈8〉;
〈9〉 NOT	〈9〉;
〈10〉 NOT	〈10〉;
〈11〉 NOT	〈11〉;
〈12〉 NOT	〈12〉;
〈13〉 NOT	〈13〉;
〈14〉 0	〈14〉0;
〈15〉 0	〈15〉0;

〈How to tune the item〉

- Insert the codes and save the program in the SD card.
- Insert the SD card to the camera.
- Turn on the camera.

(Set the mode dial to PROGRAM mode)

- 〈Figure 1-1〉 will display on the TFT LCD monitor and the items will be tuned automatically.
- After completing the tuning, the camera will be turned off.

※ If the tuning is incomplete, 〈Figure 1-2〉 will display. In this case, re-try the tuning process.

EXPOSURE : 8 sec
REF LEVEL : 120
DEFECT PIXEL : XXX
SUCCESS

〈Figure 1-1〉

EXPOSURE : 8 sec
REF LEVEL : 120
DEFECT PIXEL : XXX
FAIL

〈Figure 1-2〉

IV. ADJUSTMENT

2) PUNT ADJUSTMENT

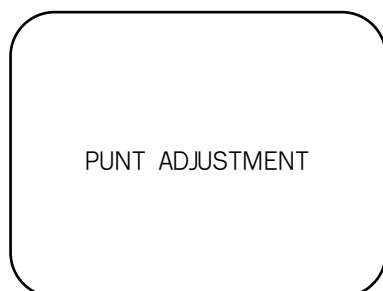
After changing the MAIN PCB and BARREL, tune the PUNT.

〈Codes of program〉

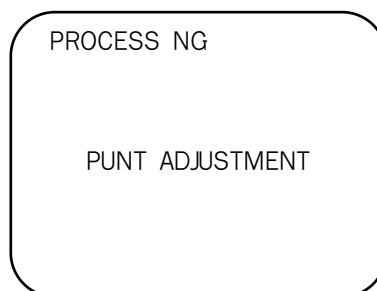
BASIC PROGRAM	PUNT ADJUSTMENT
〈1〉 PROCESS CODE ;	〈1〉2;
〈2〉 65535 ;	〈2〉65535;
〈3〉 PROCESS CODE ;	〈3〉2,0;
〈4〉 0 OR 1 ;	〈4〉1;
〈5〉 0 OR 1 ;	〈5〉1;
〈6〉 CONDITION ;	〈6〉1,0,1,2,3,4,5,6,7;
〈7〉 SPEC ;	〈7〉46,276,61,281,38,258,40,249,55,256,70,272,88,280,106,261 ;
〈8〉 NOT	〈8〉;
〈9〉 NOT	〈9〉;
〈10〉 NOT	〈10〉;
〈11〉 NOT	〈11〉;
〈12〉 NOT	〈12〉;
〈13〉 NOT	〈13〉;
〈14〉 0	〈14〉0;
〈15〉 0	〈15〉0;

〈How to tune the item〉

- Arrange a chart for tuning the PUNT. ※ Download the chart from the SSA.NET(A3 size)
 - Attach the camera to the tripod.
 - The distance between the chart and the camera should be 80cm.
 - Insert the codes and save the program in the SD card.
 - Insert the SD card to the camera and turn on the camera.
(Set the mode dial to PROGRAM mode)
 - After completing the tuning, the camera will be turned off.
- ※ If the tuning is incomplete, 〈Figure 2-2〉 will display. In this case, re-try the tuning process.



〈Figure 2-1〉



〈Figure 2-2〉

3) SHUTTER CLOSE TIME ADJUSTMENT

After changing the MAIN PCB, BARREL and CCD, tune the SHUTTER CLOSE TIME.

〈Codes of program〉

BASIC PROGRAM	SHUTTER CLOSE TIME
〈1〉 PROCESS CODE ;	〈1〉7;
〈2〉 65535 ;	〈2〉65535;
〈3〉 PROCESS CODE ;	〈3〉7,0;
〈4〉 0 OR 1 ;	〈4〉1;
〈5〉 0 OR 1 ;	〈5〉1;
〈6〉 CONDITION ;	〈6〉6,678,2,530,490,0,2698,0,2452,0,1471,0,1962,0,490,15;
〈7〉 SPEC ;	〈7〉;
〈8〉 NOT	〈8〉;
〈9〉 NOT	〈9〉;
〈10〉 NOT	〈10〉;
〈11〉 NOT	〈11〉;
〈12〉 NOT	〈12〉;
〈13〉 NOT	〈13〉;
〈14〉 0	〈14〉0;
〈15〉 0	〈15〉0;

〈How to tune the item〉

- Prepare a AE TESTER that can test upto $LV15.7 \pm 0.2$
 - Attach the camera to the AE TESTER.
 - Change the LV to 15.7.2
 - Insert the codes and save the program in the SD card.
 - Insert the SD card to the camera and turn on the camera.
(Set the mode dial to PROGRAM mode)
 - After completing the tuning, the camera will be turned off.
- ※ If the tuning is incomplete, 〈Figure 3-2〉 will display. In this case, re-try the tuning process

TEST COUNT : XX
LUMINANCE : XXX
LINE DELAY:
SHUTTER ADJ SUCCESS

〈Figure 3-1〉

TEST COUNT : XX
LUMINANCE : XXX
LINE DELAY:
SHUTTER ADJ FAIL

〈Figure 3-2〉

IV. ADJUSTMENT

4) BACK LASH ADJUSTMENT

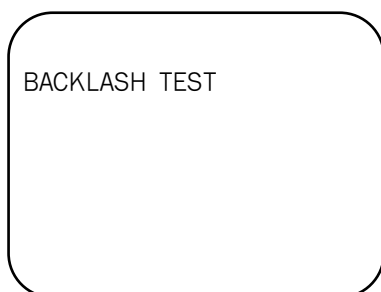
After changing the MAIN PCB, BARREL and CCD, tune the BACK LASH.

〈Codes of program〉

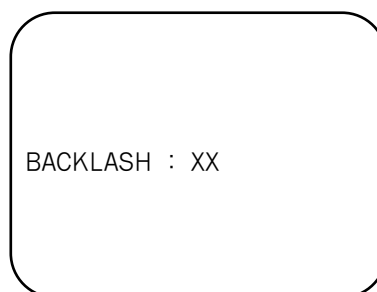
BASIC PROGRAM	BACK LASH
〈1〉 PROCESS CODE ;	〈1〉9;
〈2〉 65535 ;	〈2〉65535;
〈3〉 PROCESS CODE ;	〈3〉9,0;
〈4〉 0 OR 1 ;	〈4〉1;
〈5〉 0 OR 1 ;	〈5〉1;
〈6〉 CONDITION ;	〈6〉2;
〈7〉 SPEC ;	〈7〉50;
〈8〉 NOT	〈8〉;
〈9〉 NOT	〈9〉;
〈10〉 NOT	〈10〉;
〈11〉 NOT	〈11〉;
〈12〉 NOT	〈12〉;
〈13〉 NOT	〈13〉;
〈14〉 0	〈14〉0;
〈15〉 0	〈15〉0;

〈How to tune the item〉

- Insert the codes and save the program in the SD card.
- Insert the SD card to the camera and turn on the camera.
(Set the mode dial to PROGRAM mode)
- After completing the tuning, the camera will be turned off.
※ If the tuning is incomplete, the beep will sound. In this case, re-try the tuning process.



〈Figure 4-1〉



〈Figure 4-2〉

5) FLASH ADJUSTMENT

After changing the MAIN PCB and SUB PCB, tune the FLASH.

〈Codes of program〉

BASIC PROGRAM	FLASH ADJUSTMENT
〈1〉 PROCESS CODE ;	〈1〉13;
〈2〉 65535 ;	〈2〉65535;
〈3〉 PROCESS CODE ;	〈3〉13;
〈4〉 0 OR 1 ;	〈4〉1;
〈5〉 0 OR 1 ;	〈5〉1;
〈6〉 CONDITION ;	〈6〉0,38,17,8,1,100,58,30,20,5,5,5,5,5,5,0,0,15;
〈7〉 SPEC ;	〈7〉1080,970,1080,970,1200,988,1200,900,1200,1000,1225,1000,1220,950,1250,950;
〈8〉 NOT	〈8〉;
〈9〉 NOT	〈9〉;
〈10〉 NOT	〈10〉;
〈11〉 NOT	〈11〉;
〈12〉 NOT	〈12〉;
〈13〉 NOT	〈13〉;
〈14〉 0	〈14〉0;
〈15〉 0	〈15〉0;

〈How to tune the item〉

- Arrange a 31% reflect chart in a darkroom.
 - Arrange a camera in a darkroom.
 - The distance between the reflect chart and the camera should be 1M.
 - Insert the codes and save the program in the SD card.
 - Insert the SD card to the camera and turn on the camera.
(Set the mode dial to PROGRAM mode)
 - After completing the tuning, the camera will be turned off.
- ※ If the tuning is incomplete, 〈Figure 5-2〉 will display. In this case, re-try the tuning process.

CURRENT MODE : 100
TEST COUNT : XX
LUMINANCE : XXX
FLASH ADJ SUCCESS
FLASH ADJ IN WIDE/TELE

〈Figure 5-1〉

PROCESS NG
CURRENT MODE : 100
TEST COUNT : XX
LUMINANCE : XXX
FLASH ADJ FAIL
FLASH ADJ IN
WIDE/TELE

〈Figure 5-2〉

IV. ADJUSTMENT

6) BATTERY LEVEL ADJUSTMENT

After changing the MAIN PCB, set the battery warning voltage and lock voltage.

〈Codes of program〉

BASIC PROGRAM	BATTERY LEVEL
〈1〉 PROCESS CODE ;	〈1〉5;
〈2〉 65535 ;	〈2〉65535;
〈3〉 PROCESS CODE ;	〈3〉5,3;
〈4〉 0 OR 1 ;	〈4〉1;
〈5〉 0 OR 1 ;	〈5〉1;
〈6〉 CONDITION ;	〈6〉1,1,1,167,160,165,245,225,235,13,25,13,25;
〈7〉 SPEC ;	〈7〉175,165,165,155,250,240,230,220;
〈8〉 NOT	〈8〉;
〈9〉 NOT	〈9〉;
〈10〉 NOT	〈10〉;
〈11〉 NOT	〈11〉;
〈12〉 NOT	〈12〉;
〈13〉 NOT	〈13〉;
〈14〉 0	〈14〉0;
〈15〉 0	〈15〉0;

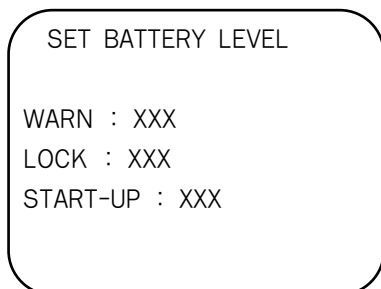
〈How to tune the item〉

- Arrange a POWER SUPPLY.
- Attach the camera to the POWER SUPPLY.
- Set the voltage to 2.74V.
- Insert the codes and save the program in the SD card.
- Insert the SD card to the camera and turn on the camera.

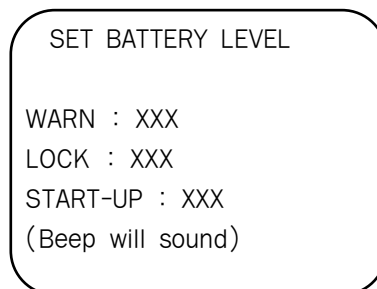
(Set the mode dial to PROGRAM mode)

- After completing the tuning, the camera will be turned off.

※ If the tuning is incomplete, 〈Figure 6-2〉 will display. In this case, re-try the tuning process.



〈Figure 6-1〉



〈Figure 6-2〉

7) BURNING TEST

After changing the MAIN PCB and parts, check whether all of the camera functions work correctly.

〈Codes of program〉

BASIC PROGRAM	BURNING TEST
〈1〉 PROCESS CODE ;	〈1〉10;
〈2〉 65535 ;	〈2〉65535;
〈3〉 PROCESS CODE ;	〈3〉10,0;
〈4〉 0 OR 1 ;	〈4〉;
〈5〉 0 OR 1 ;	〈5〉;
〈6〉 CONDITION ;	〈6〉40,1,2,4,3,6,7,8,9,10,11,12,13,14,15;
〈7〉 SPEC ;	〈7〉;
〈8〉 NOT	〈8〉;
〈9〉 NOT	〈9〉;
〈10〉 NOT	〈10〉;
〈11〉 NOT	〈11〉;
〈12〉 NOT	〈12〉;
〈13〉 NOT	〈13〉;
〈14〉 0	〈14〉0;
〈15〉 0	〈15〉0;

〈How to test〉

- a. Insert the camera function number to the 〈6〉 code. The first position is for repeat time (10 means 10 repeat time), the rest of the positions are for camera function. See the below list.

CODE	Function	CODE	Function
1	DELETE ALL	9	MACRO SHOOTING
2	LCD ON	10	CONTINUOUS SHOOTING(2)
3	WIDE	11	SELF TIMER (10 sec.)
4	TELE	12	PLAY MODE
5	NOT USE	13	SLIDE SHOW
6	FLASH ONSHOOTING	14	MOVIE CLIP RECORD
7	FLASH OFF SHOOTING	15	MOVIE PLAY
8	NORMAL SHOOTING		

- b. Insert the codes and save the program in the SD card.
 c. Insert the SD card to the camera and turn on the camera.
 (Set the mode dial to PROGRAM mode)
 d. The programed camera functions will work. If the test is complete, "Burning END" message will display on the LCD monitor and the camera will be turned off.

IV. ADJUSTMENT

8) EEPROM READ

To read the data of EEPROM, refer to the below codes.

〈Codes of program〉

BASIC PROGRAM	EEPROM READ
〈1〉 PROCESS CODE ;	〈1〉16;
〈2〉 65535 ;	〈2〉65535;
〈3〉 PROCESS CODE ;	〈3〉16,3;
〈4〉 0 OR 1 ;	〈4〉;
〈5〉 0 OR 1 ;	〈5〉1;
〈6〉 CONDITION ;	〈6〉1,499;
〈7〉 SPEC ;	〈7〉;
〈8〉 NOT	〈8〉;
〈9〉 NOT	〈9〉;
〈10〉 NOT	〈10〉;
〈11〉 NOT	〈11〉;
〈12〉 NOT	〈12〉;
〈13〉 NOT	〈13〉;
〈14〉 0	〈14〉0;
〈15〉 0	〈15〉0;

〈How to test〉

- Insert the codes (from START ADDRESS 1 TO END ADDRESS 499) and save the program in the SD card.
- Insert the SD card to the camera and turn on the camera.
(Set the mode dial to PROGRAM mode)
- Turn on the camera and the DATA in the EEPROM will be copied in the SD card.
The codes from ADDRESS 1 to 10 will display on the LCD monitor and the rest of codes will not display.
- When the copy is complete, turn off the camera.
- If you read the SD card in your PC, you can find the V5DAT.TXT file and you can check the EEPROM DATA.

9) EEPROM WRITE

If you want to write the DATA of EEPROM, do as follows.

〈Codes of program〉

BASIC PROGRAM	EEPROM WRITE
〈1〉 PROCESS CODE ;	〈1〉17;
〈2〉 65535 ;	〈2〉65535;
〈3〉 PROCESS CODE ;	〈3〉17;
〈4〉 0 OR 1 ;	〈4〉1;
〈5〉 0 OR 1 ;	〈5〉1;
〈6〉 CONDITION ;	〈6〉DATA, ADDRESS 1,.....,DATA, ADDRESS 499;
〈7〉 SPEC ;	〈7〉;
〈8〉 NOT	〈8〉;
〈9〉 NOT	〈9〉;
〈10〉 NOT	〈10〉;
〈11〉 NOT	〈11〉;
〈12〉 NOT	〈12〉;
〈13〉 NOT	〈13〉;
〈14〉 0	〈14〉0;
〈15〉 0	〈15〉0;

〈How to test〉

- Insert the codes (from START ADDRESS 1 TO END ADDRESS 499) and save the program in the SD card.
- Insert the SD card to the camera and turn on the camera.
(Set the mode dial to PROGRAM mode)
- Turn on the camera and the data of EEPROM will be copied to the camera.
- When the copy is complete, turn off the camera.

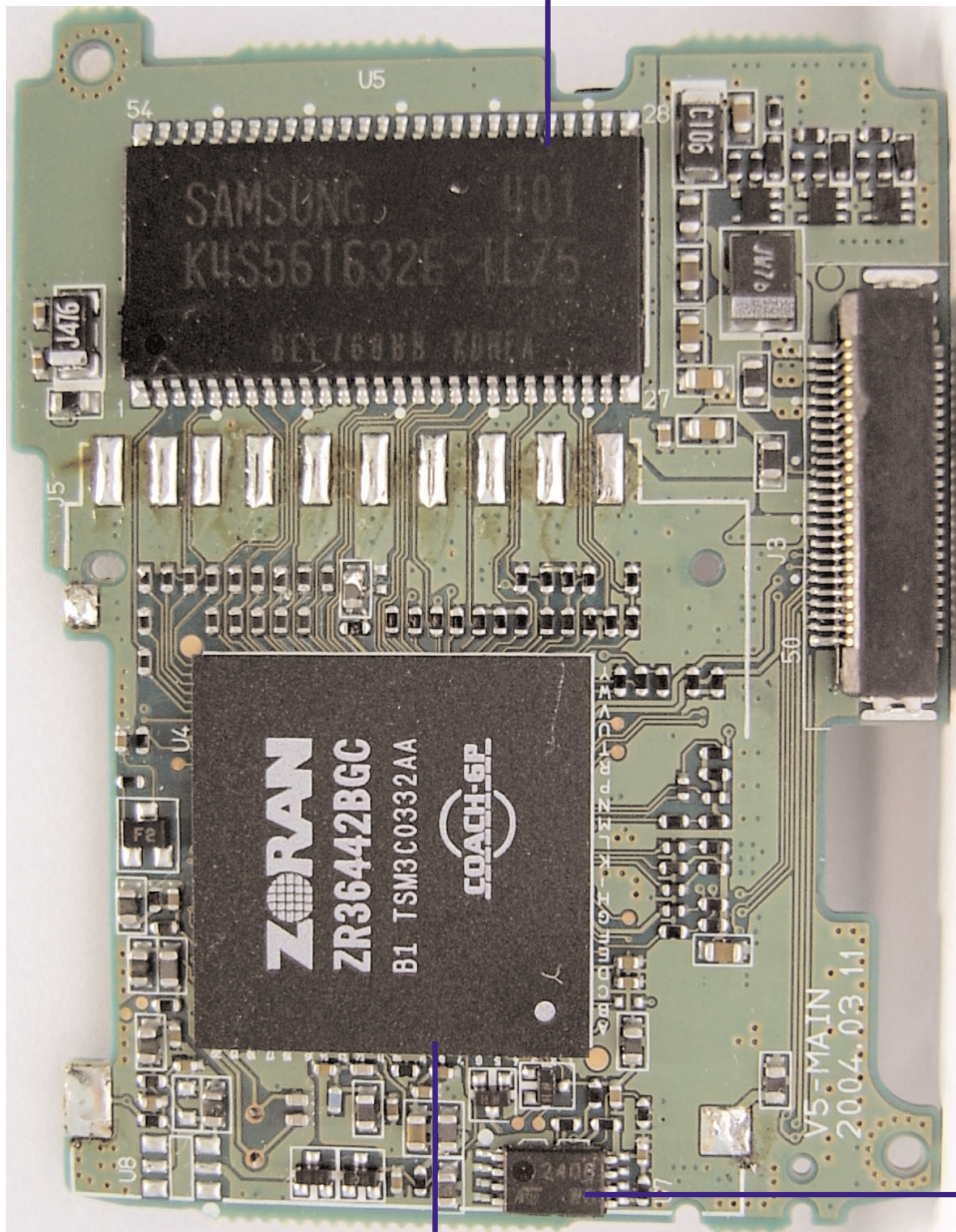
V. PATTERN DIAGRAMS

1. PARTS ARRANGEMENT FOR EACH PCB ASS'Y

1) MAIN PCB Assembly (TOP)

U5 - SDRAM (1106-0005-01A)

Being used as omage buffer, role of storing digital data of CCD sensor module. After treating by DSP, this temporarily stored data will store in Compact Flash Memory as image data.

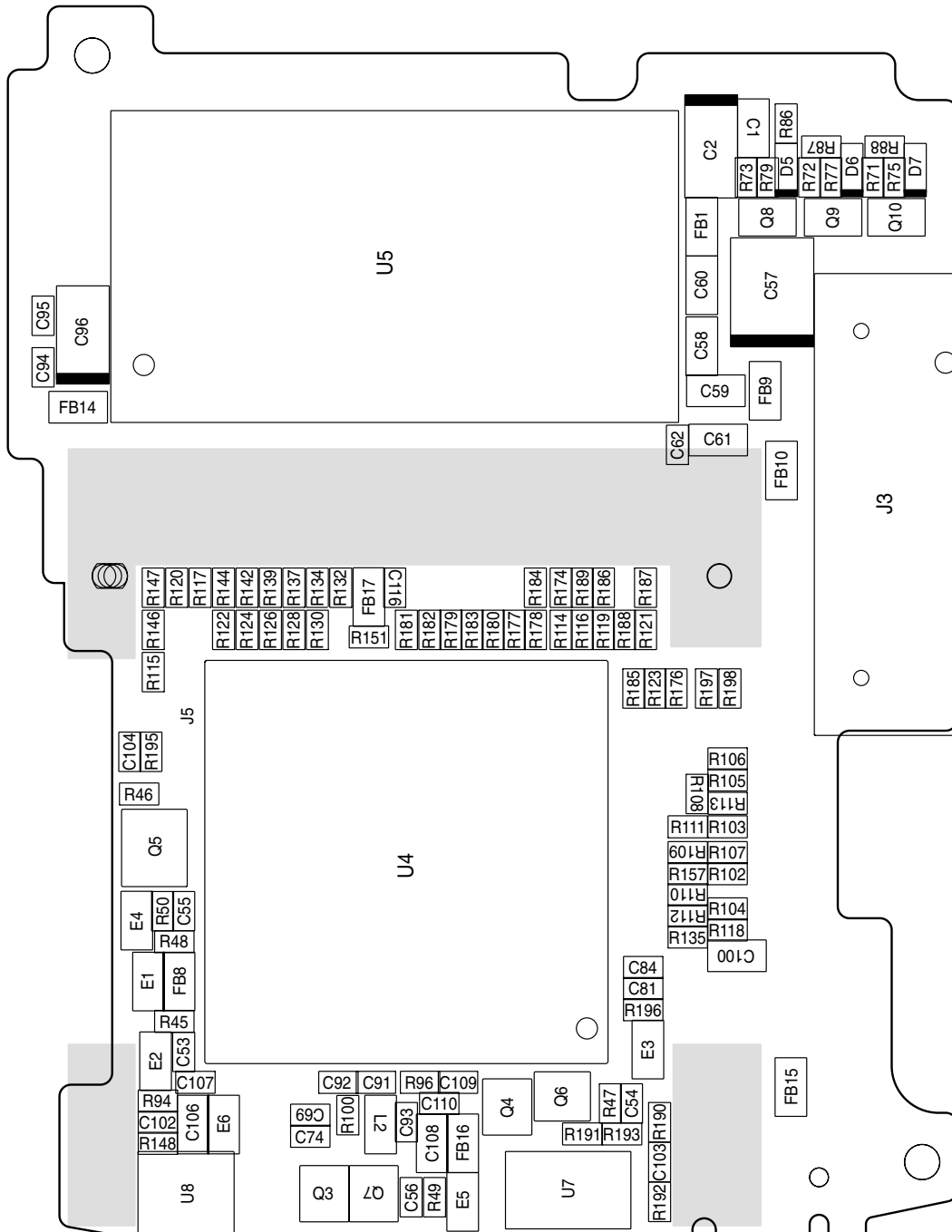


U4 - Coach IC

Management of CCD's image signal and I/F with initiative devices; JPEG compression, USB, AUDIO, VIDEO.

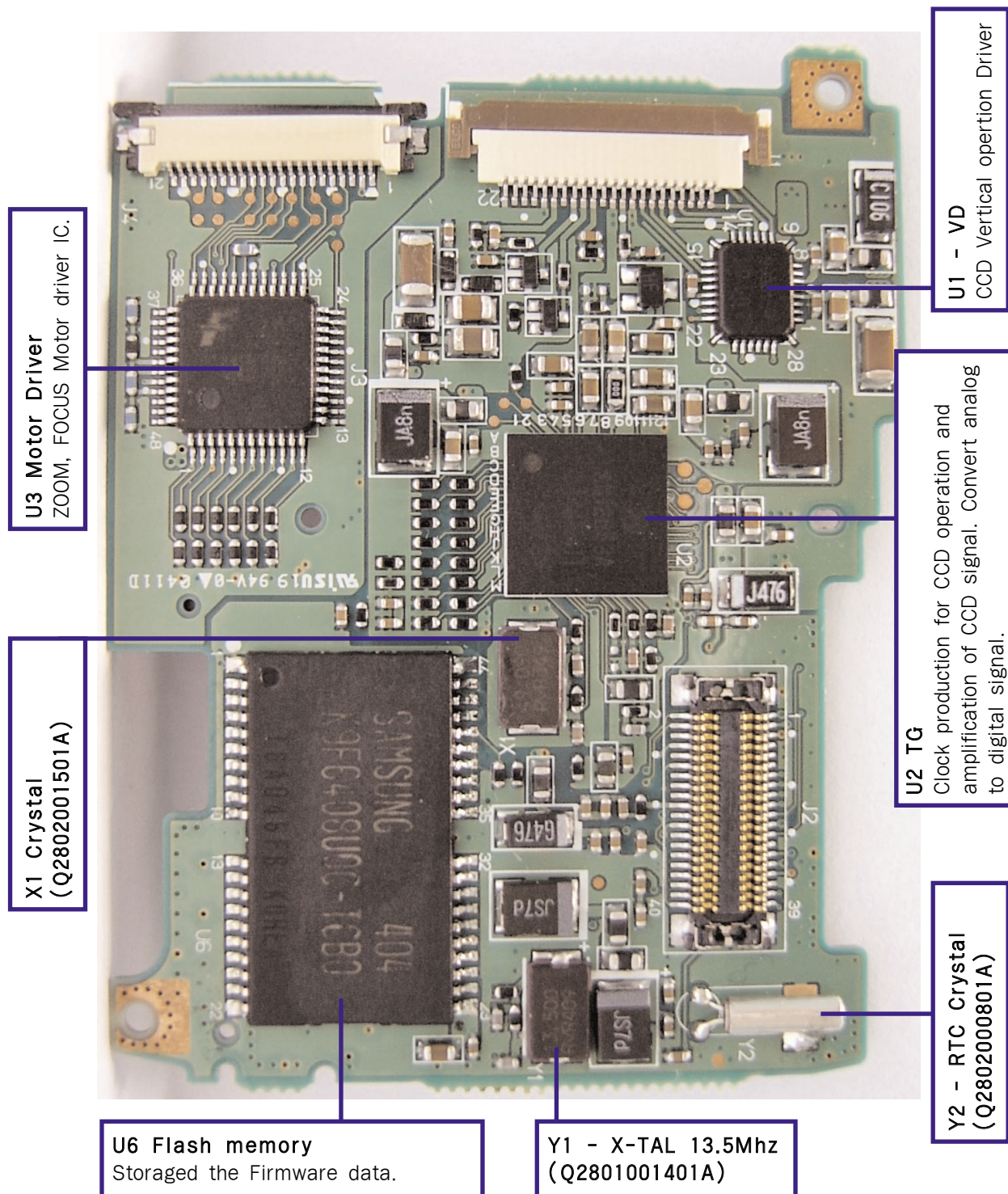
U7 - EEPROM

Stored the adjustment data.



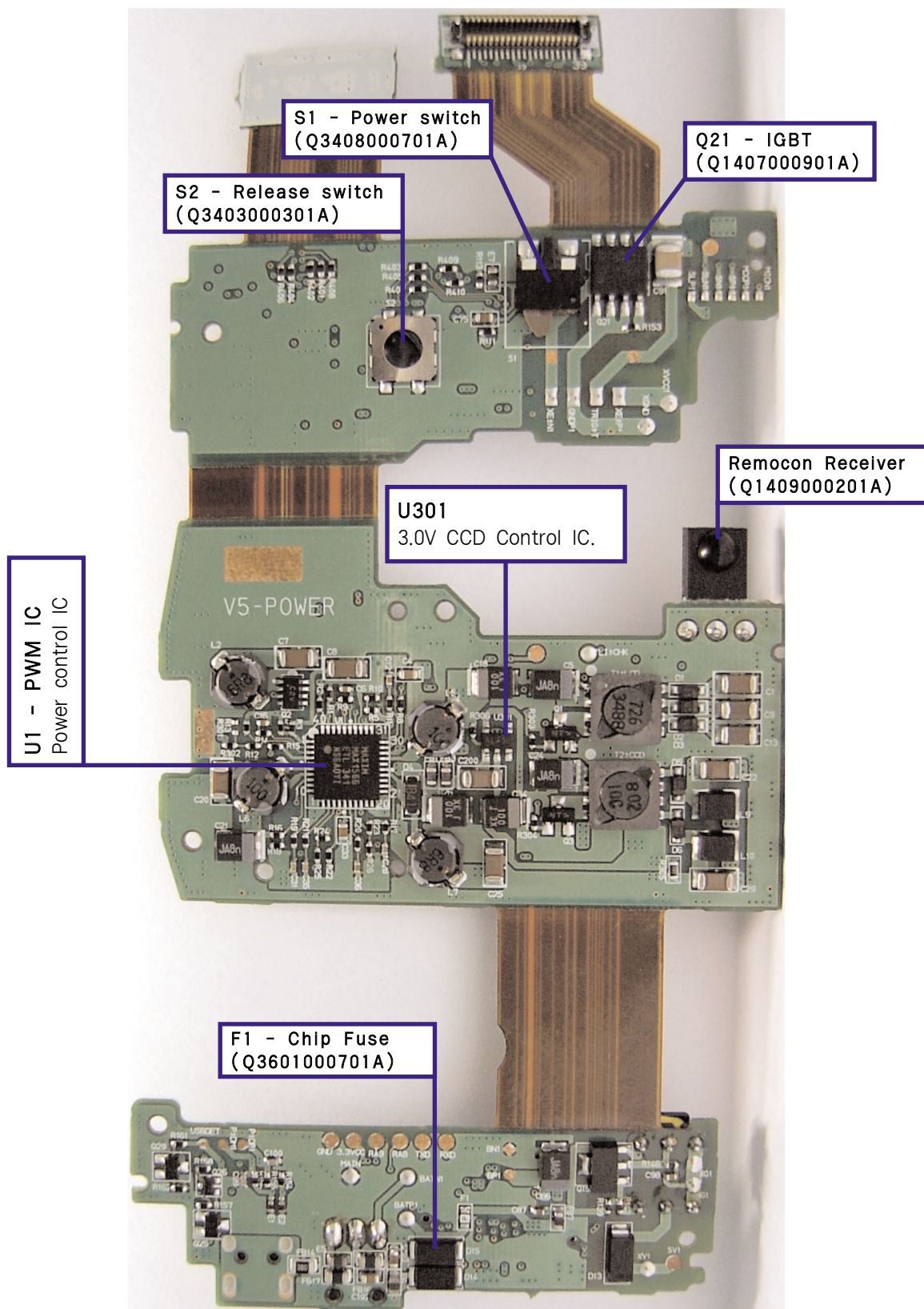
V. PATTERN DIAGRAMS

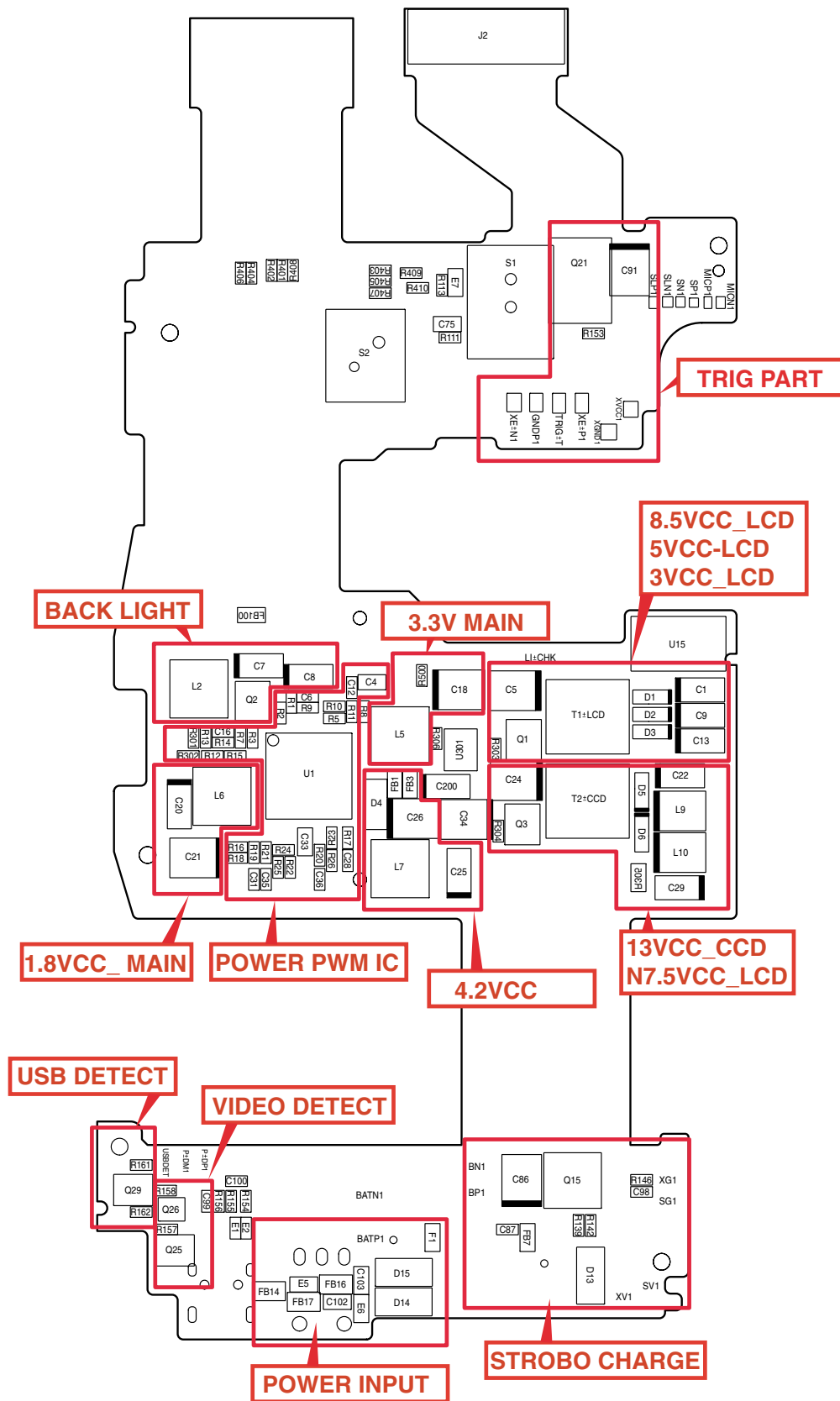
2) MAIN PCB ASSEMBLY (BOTTOM)



V. PATTERN DIAGRAMS

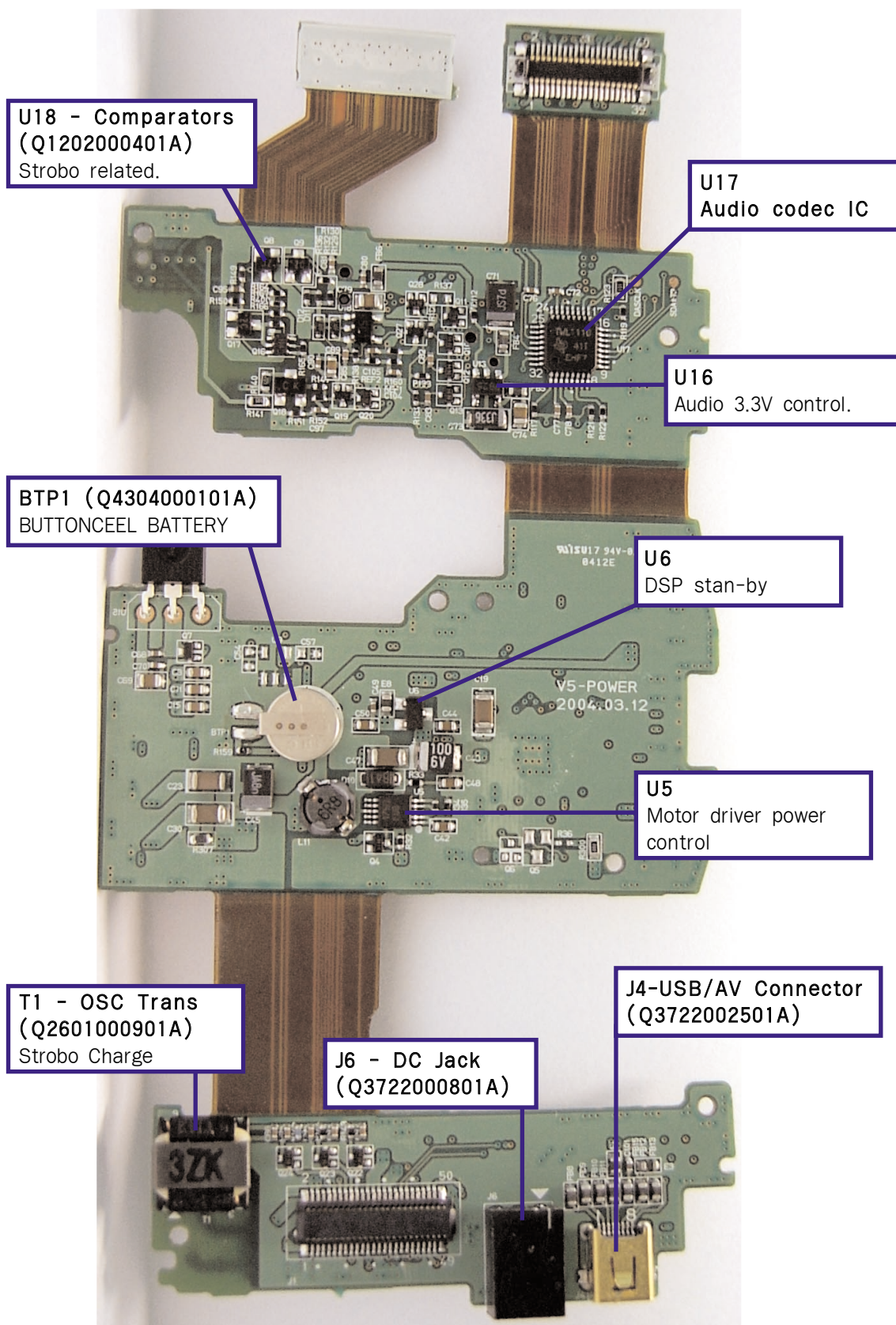
3) POWER PCB ASSEMBLY (TOP)

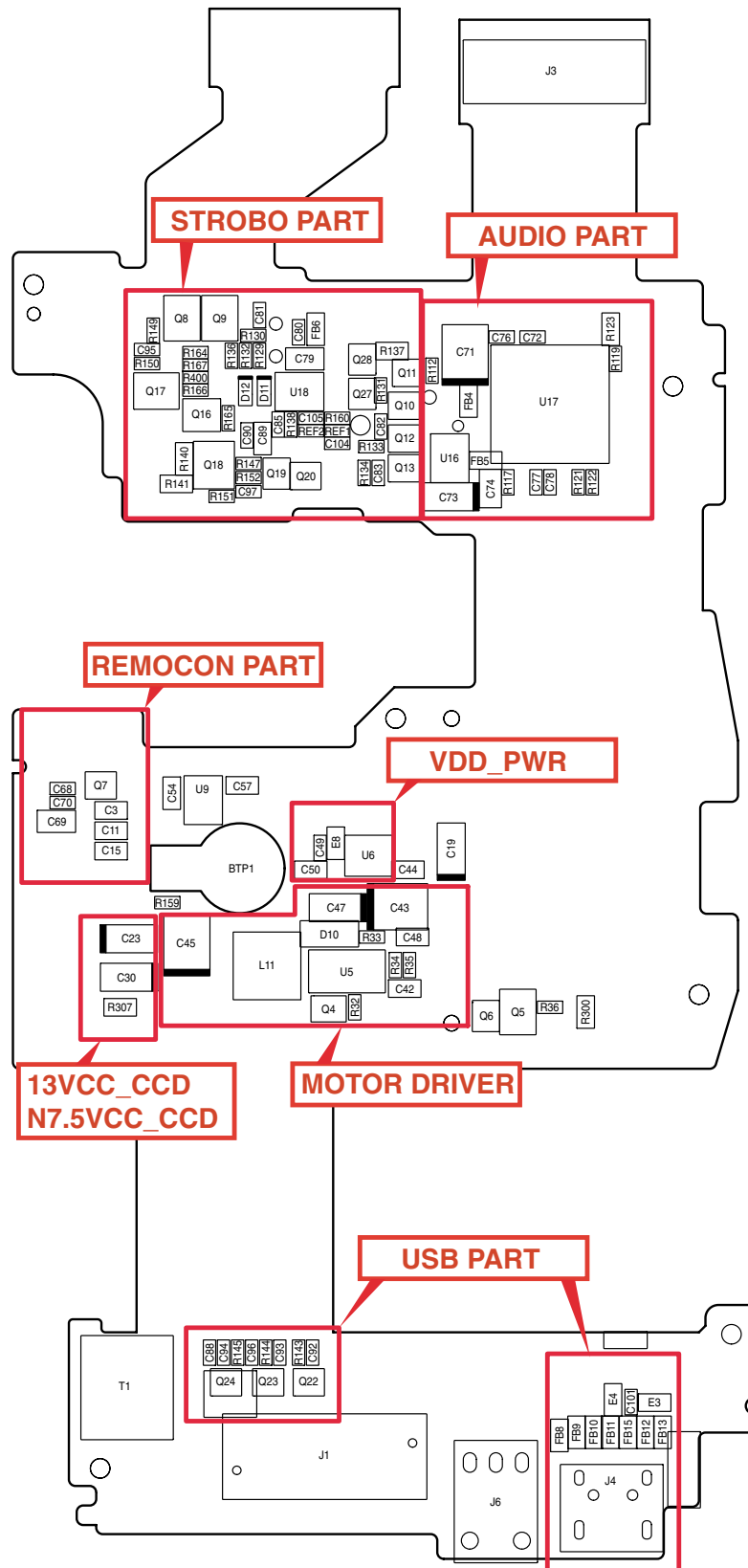




V. PATTERN DIAGRAMS

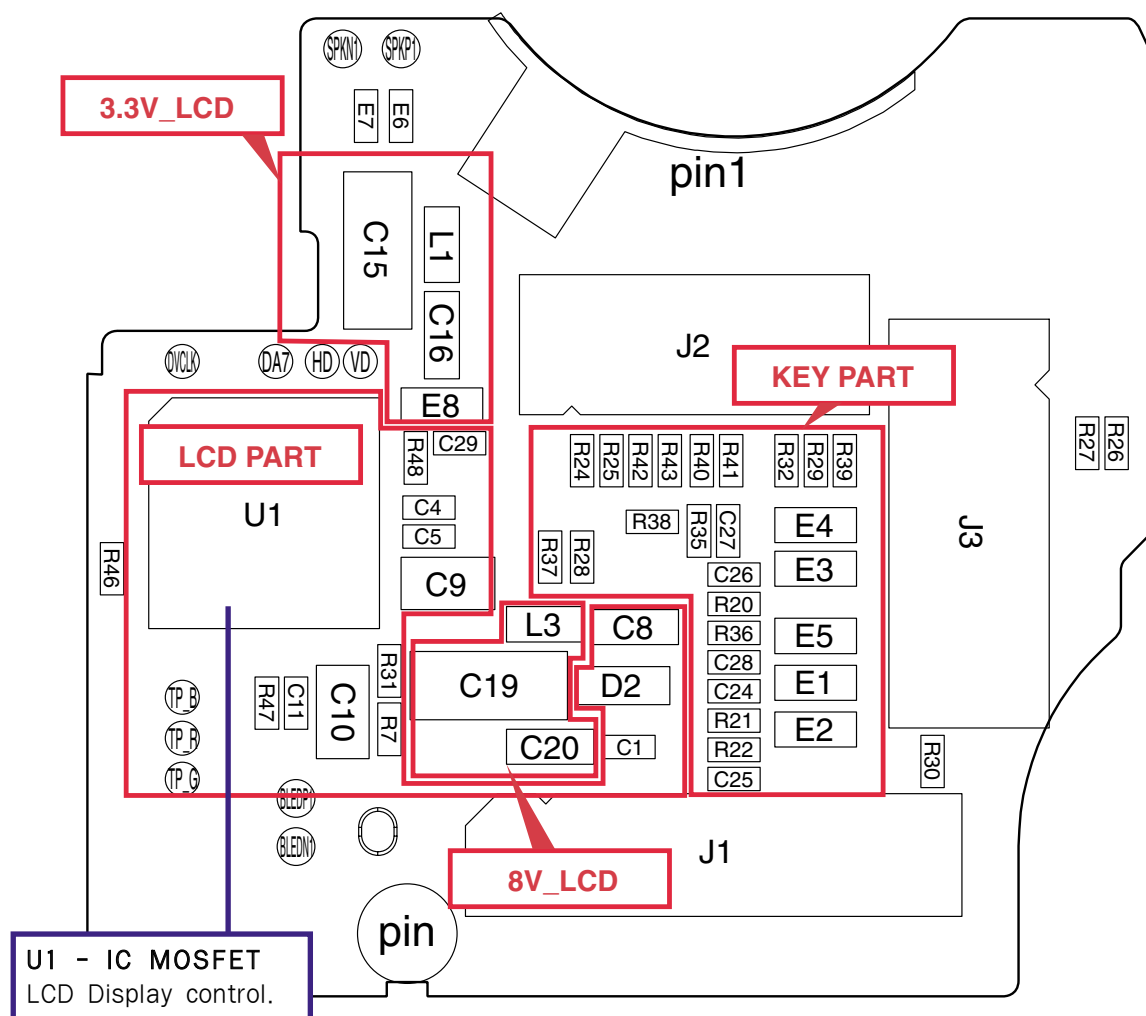
4) POWER PCB ASSEMBLY (BOTTOM)



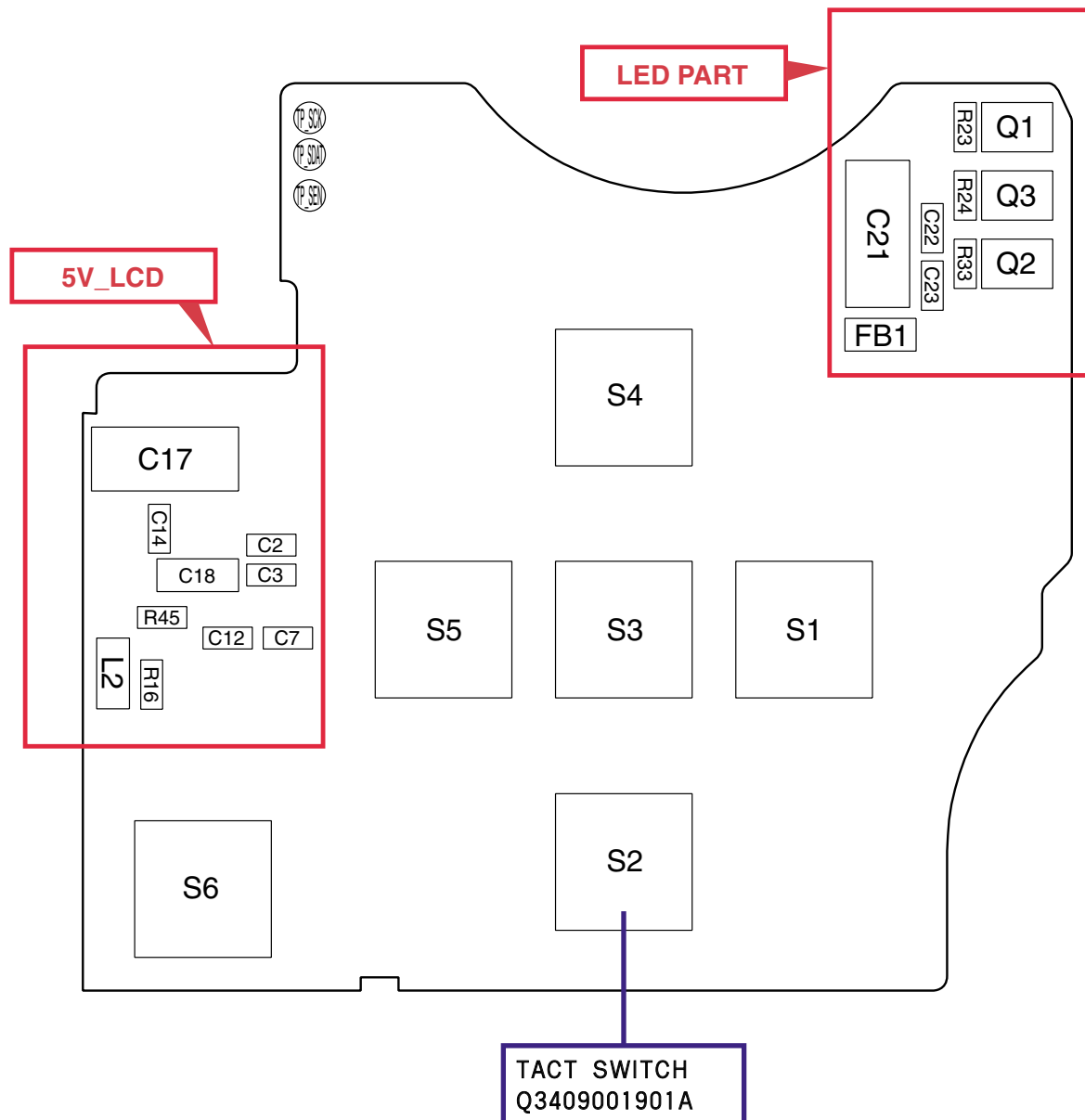


V. PATTERN DIAGRAMS

5) LCD PCB ASSEMBLY (TOP)

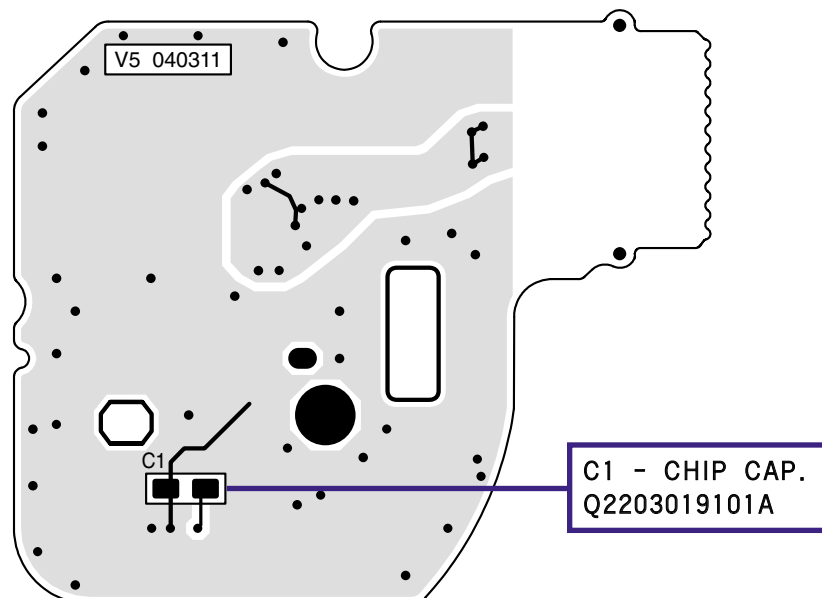


6) LCD PCB ASSEMBLY (BOTTOM)

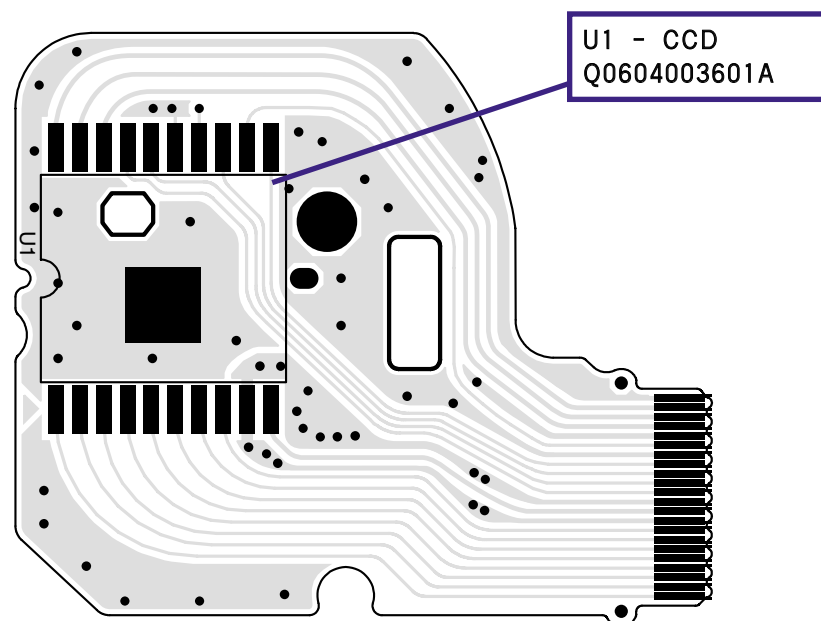


V. PATTERN DIAGRAMS

7) CCD PCB ASSEMBLY (TOP)

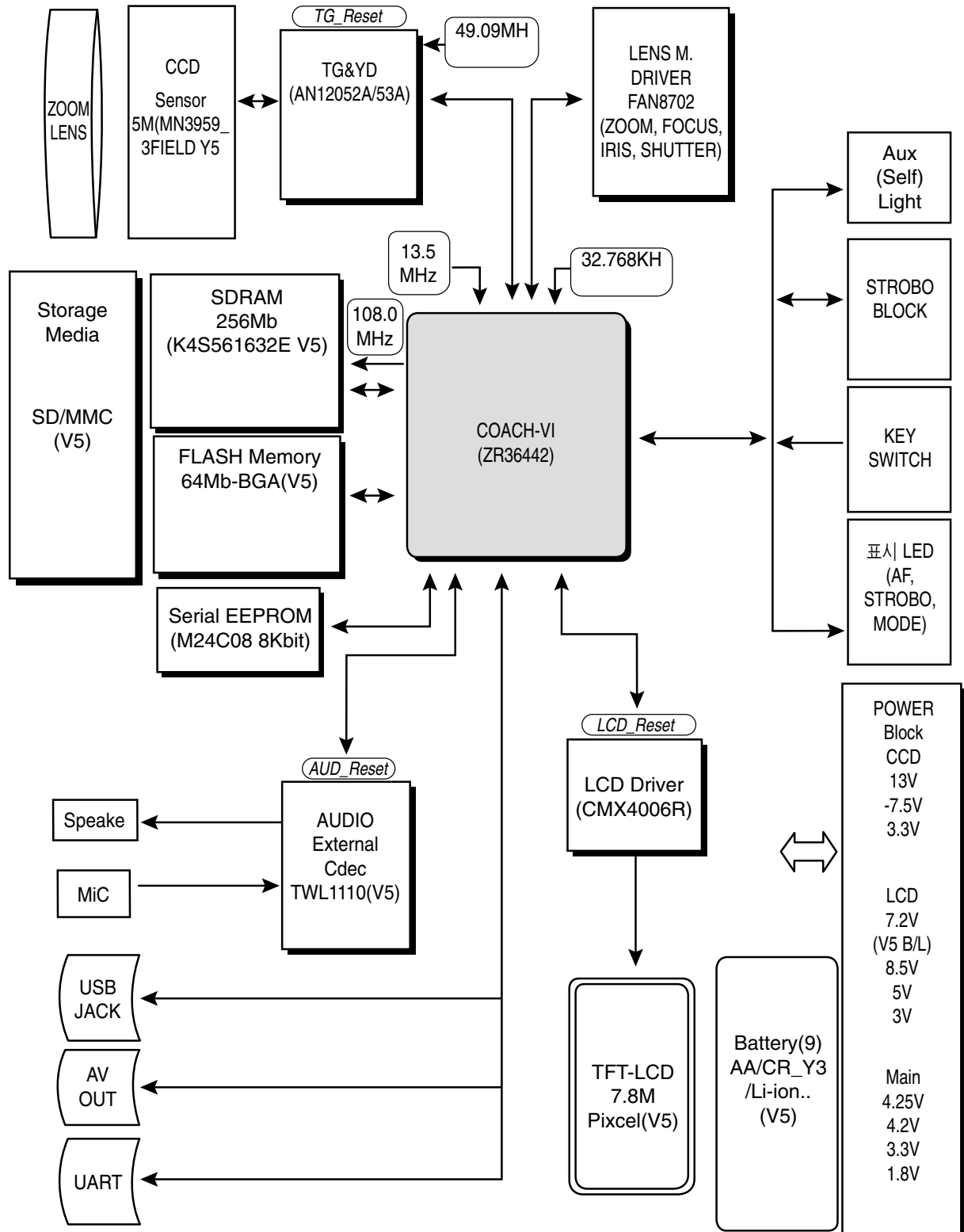


8) CCD PCB ASSEMBLY (BOTTOM)

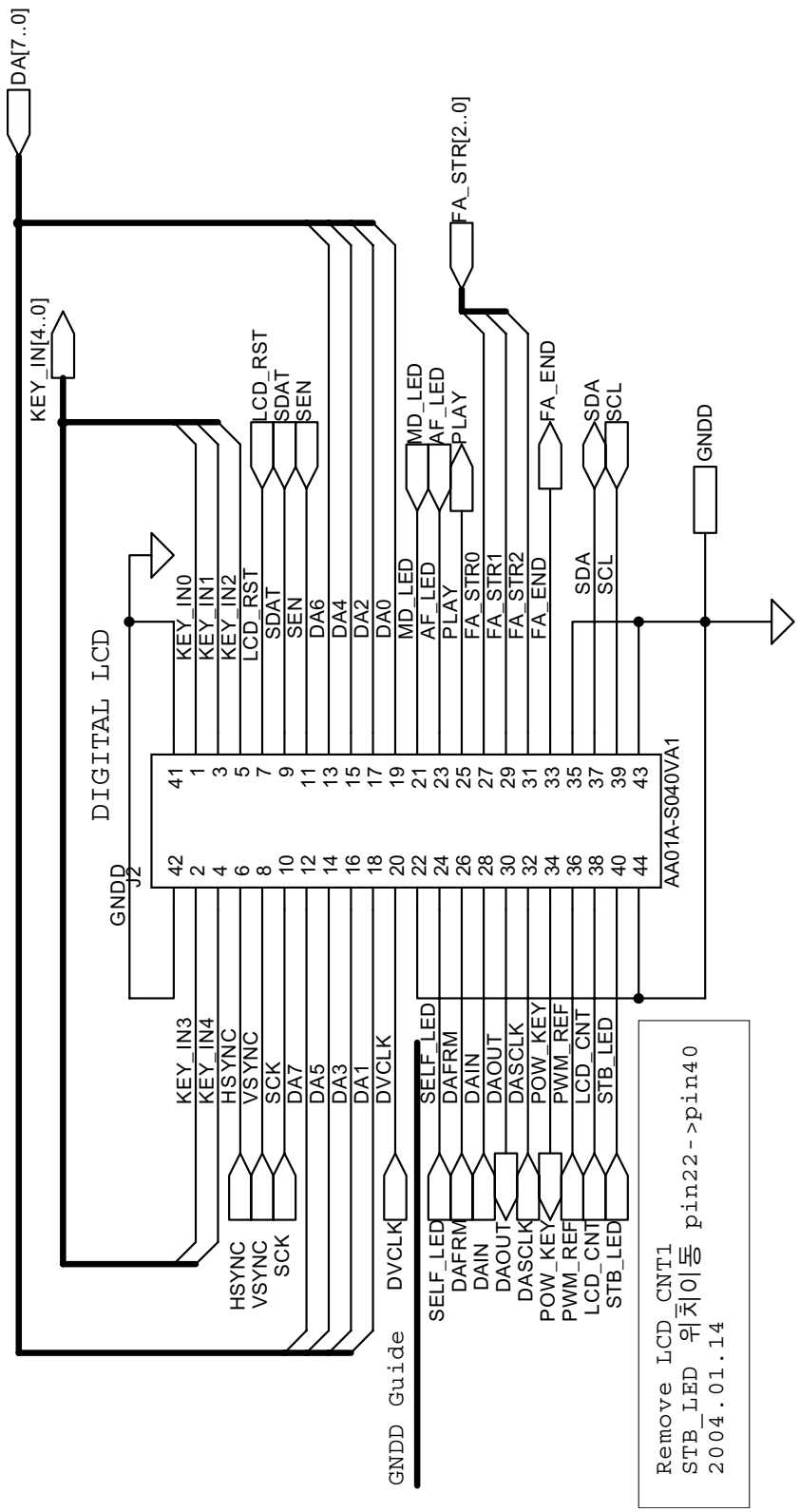


VI. CIRCUIT DIAGRAM

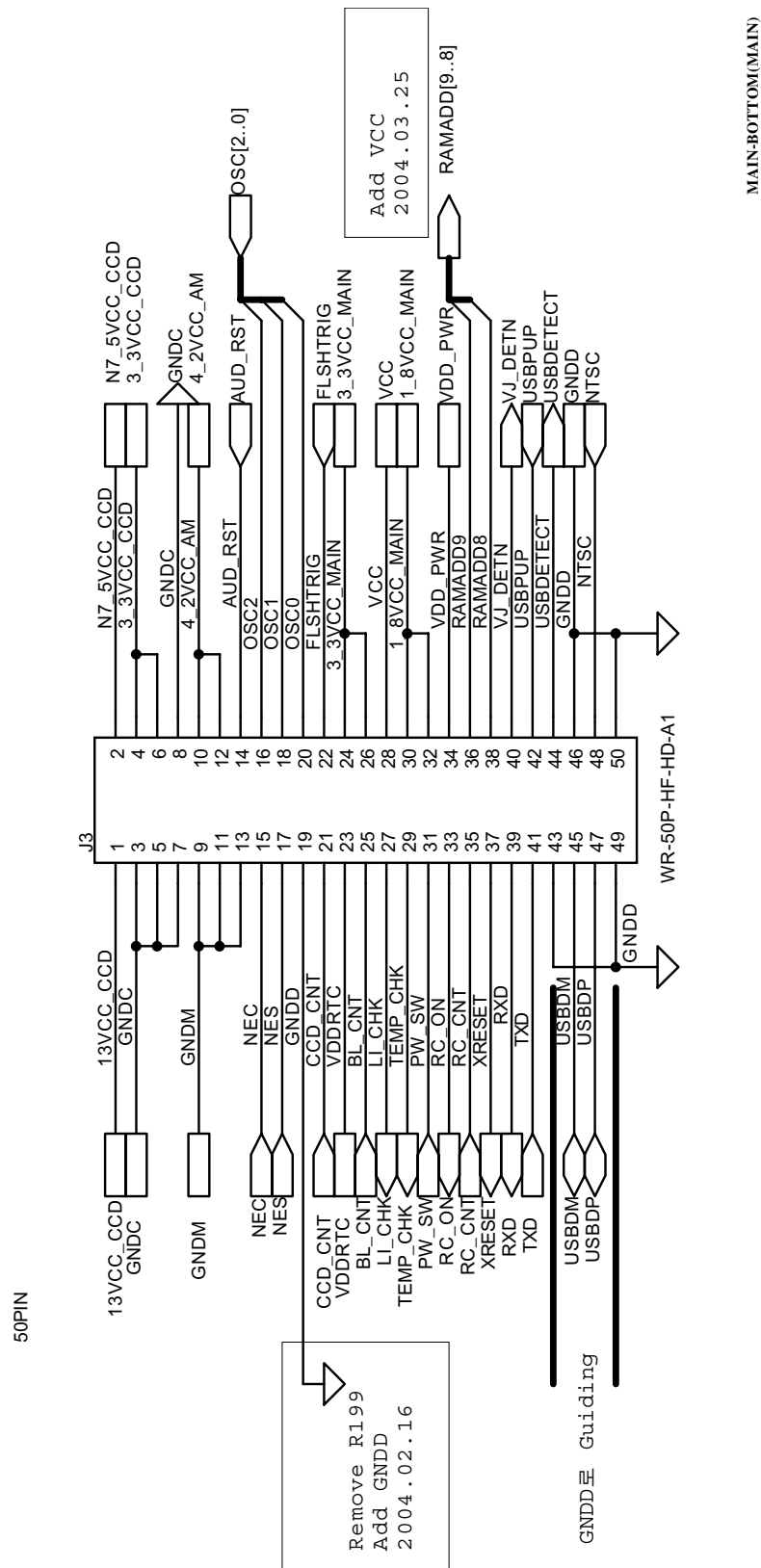
1. BLOCK DIAGRAM



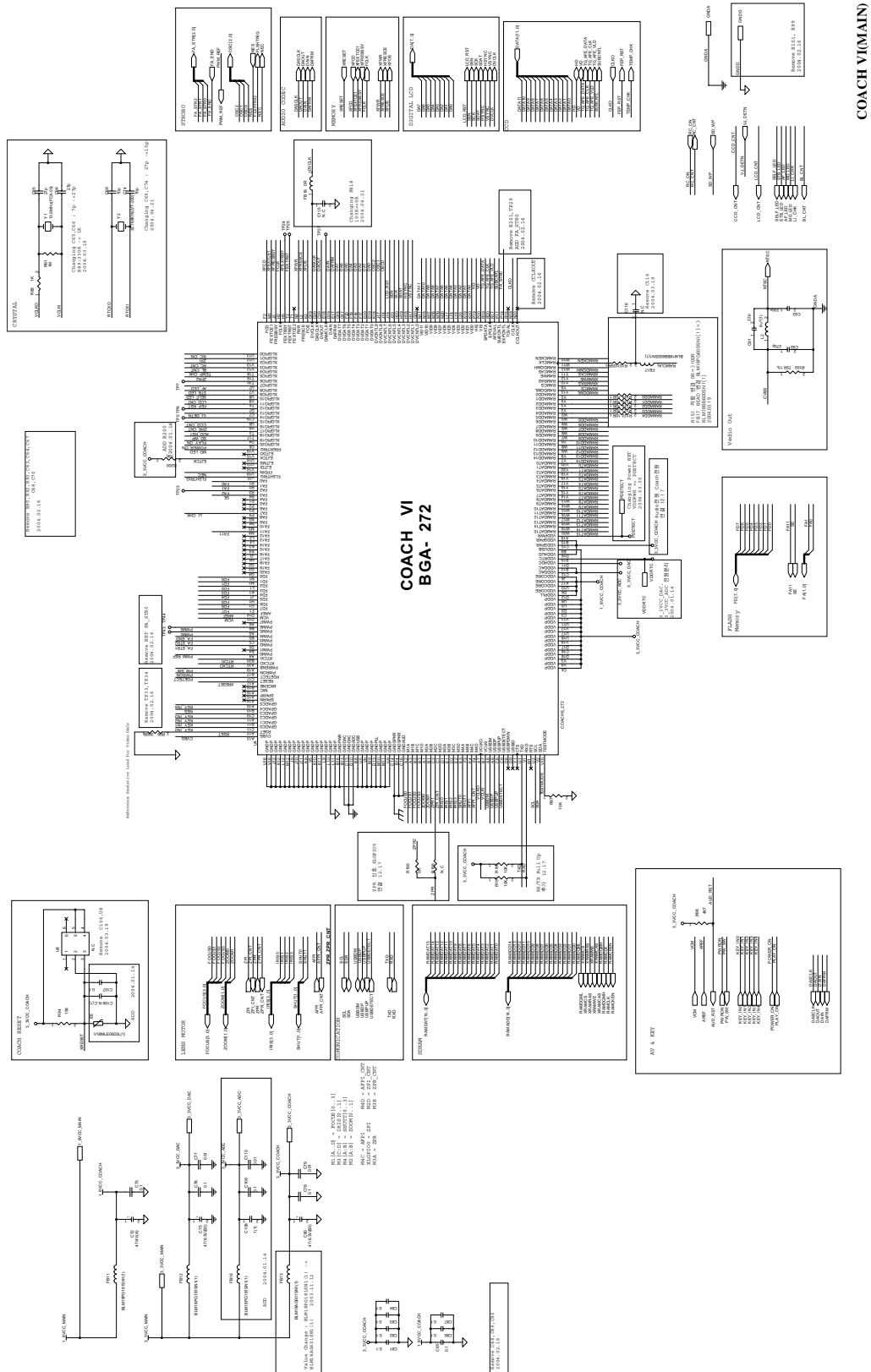
2) MAIN_TOP (MAIN)



MAIN-TOP(MAIN)

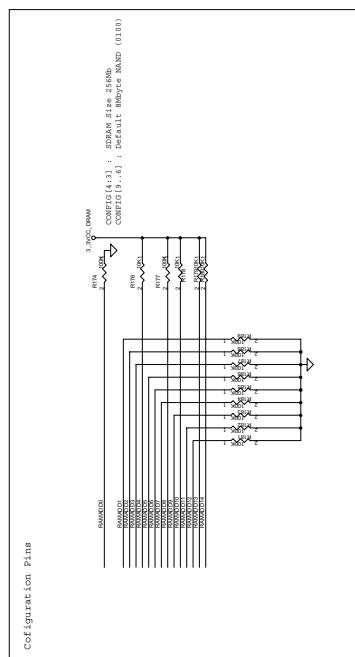
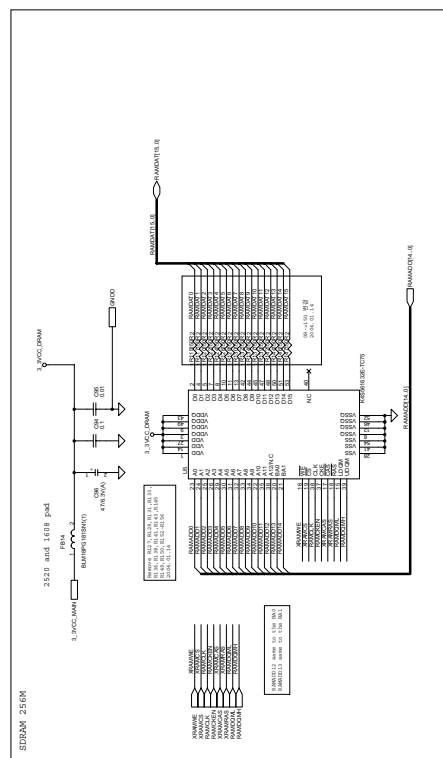


4) COACH VI (MAIN)

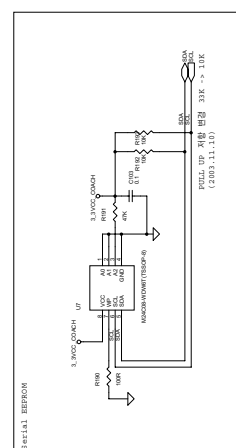
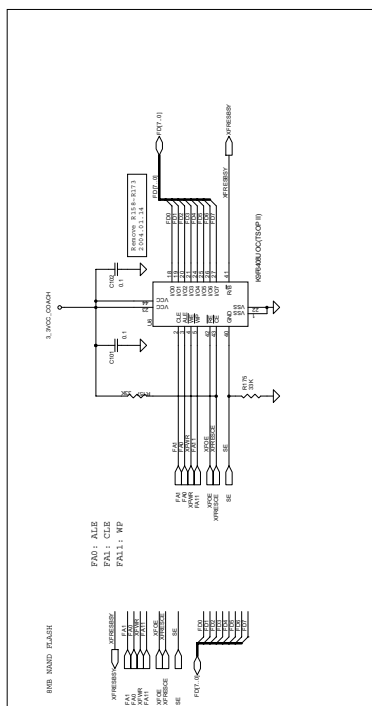
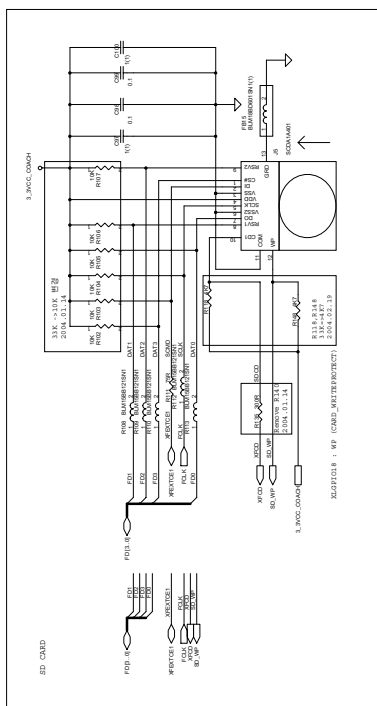


VI. CIRCUIT DIAGRAM

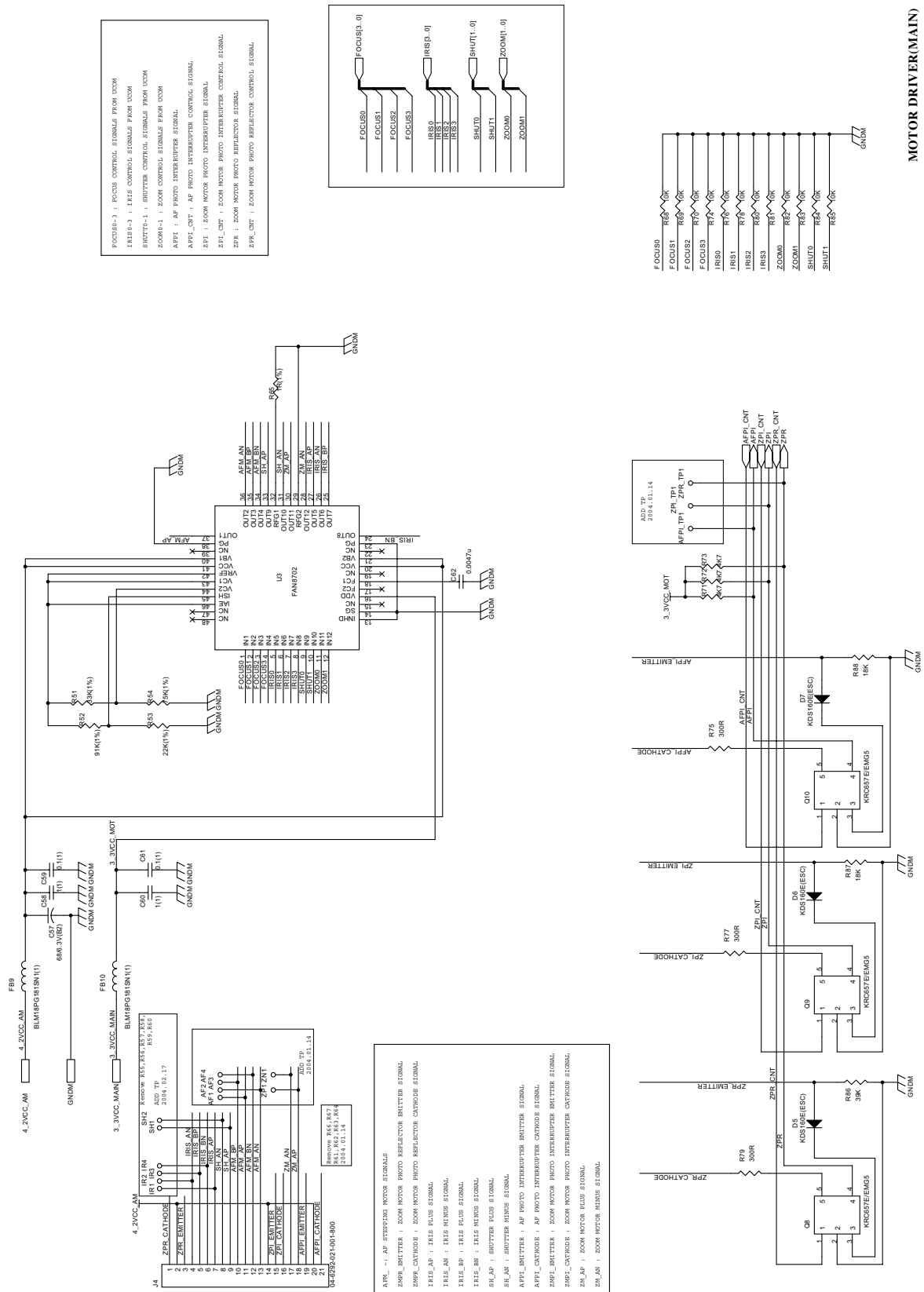
5) MEMORY (MAIN)



MEMORY(MAIN)

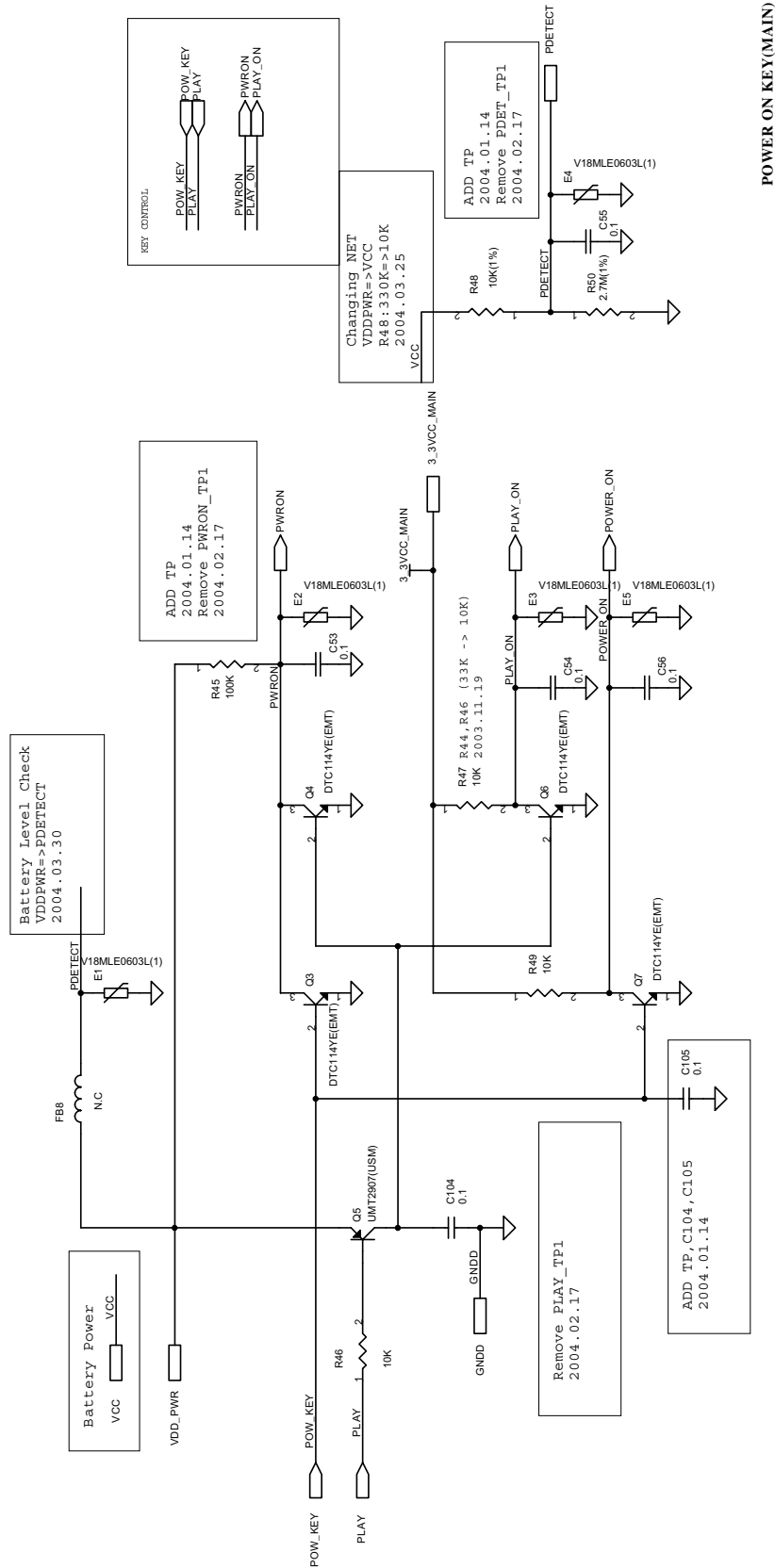


6) MOTOR DRIVER (MAIN)



VI. CIRCUIT DIAGRAM

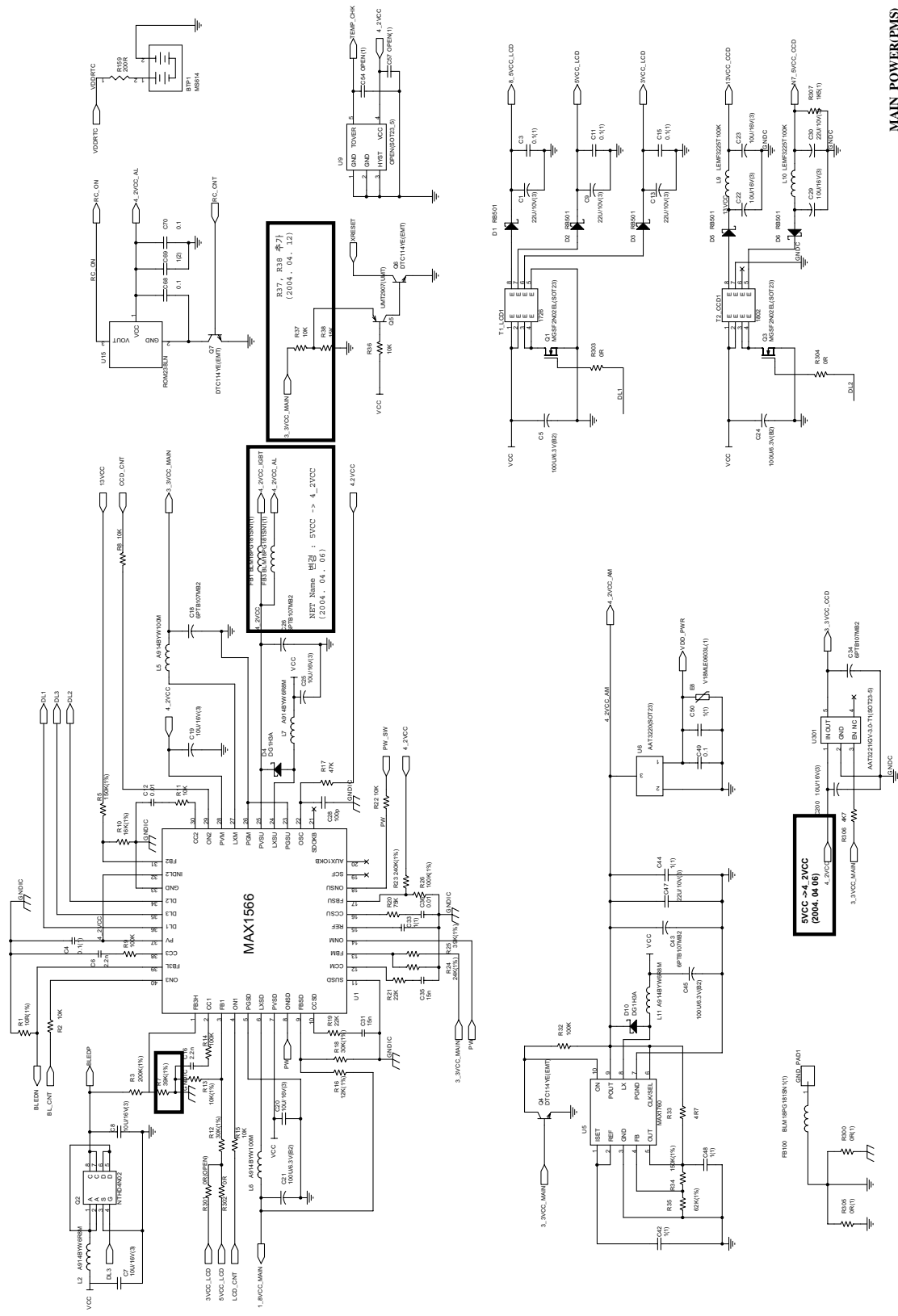
7) POWER ON KEY (MAIN)







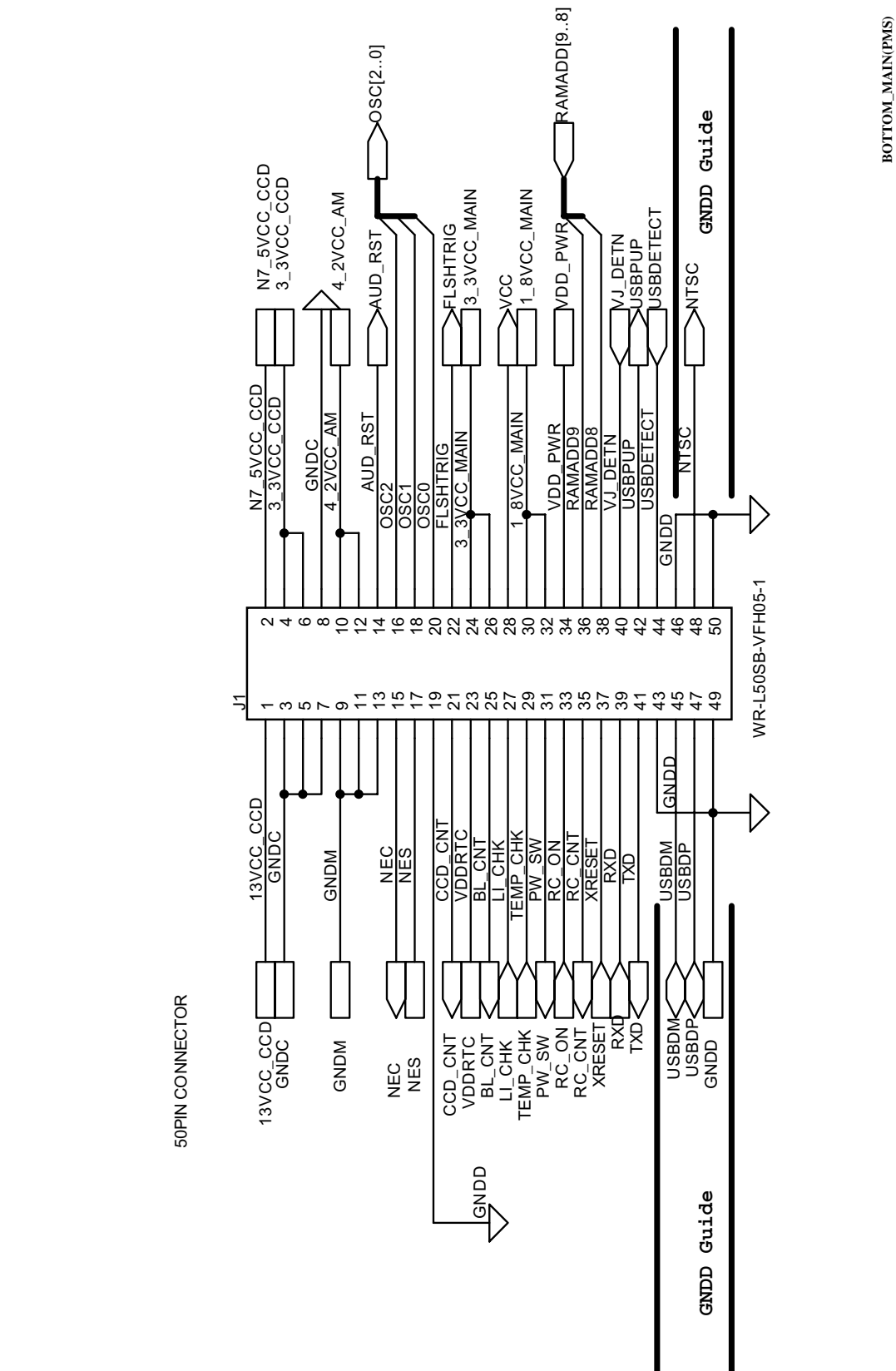
10) MAIN_POWER (PMS)



MAIN_POWER(PMS)

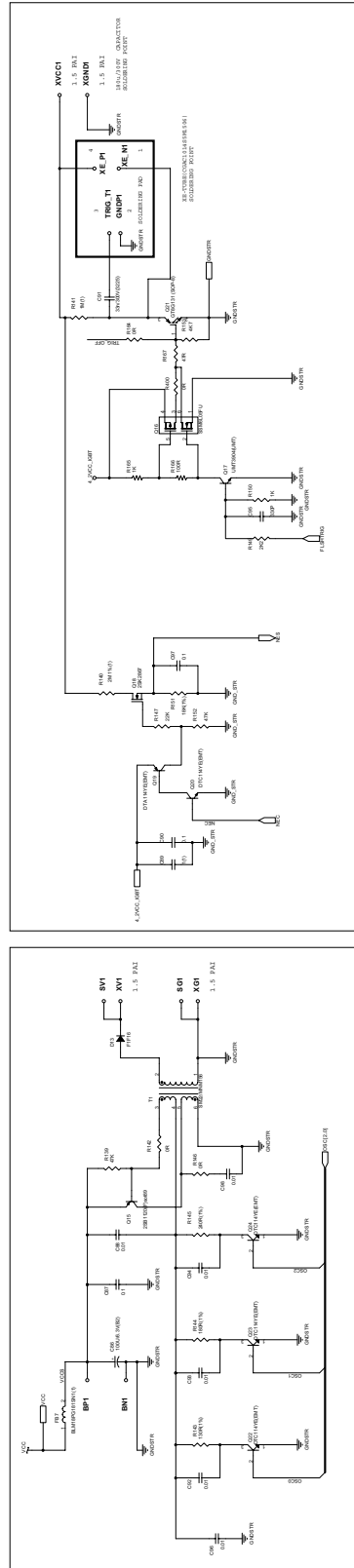
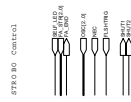
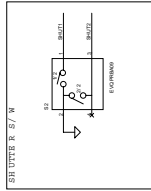
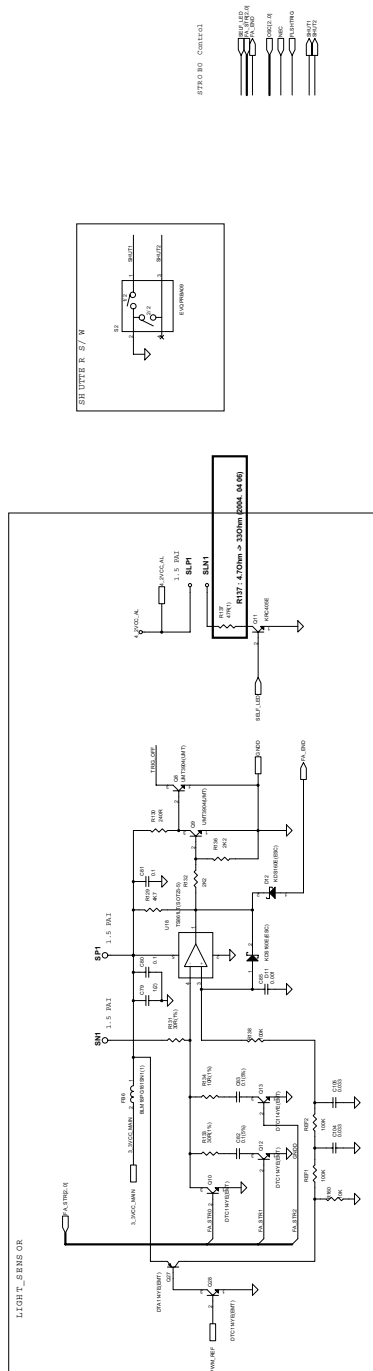


12) BOTTOM__MAIN (POWER)



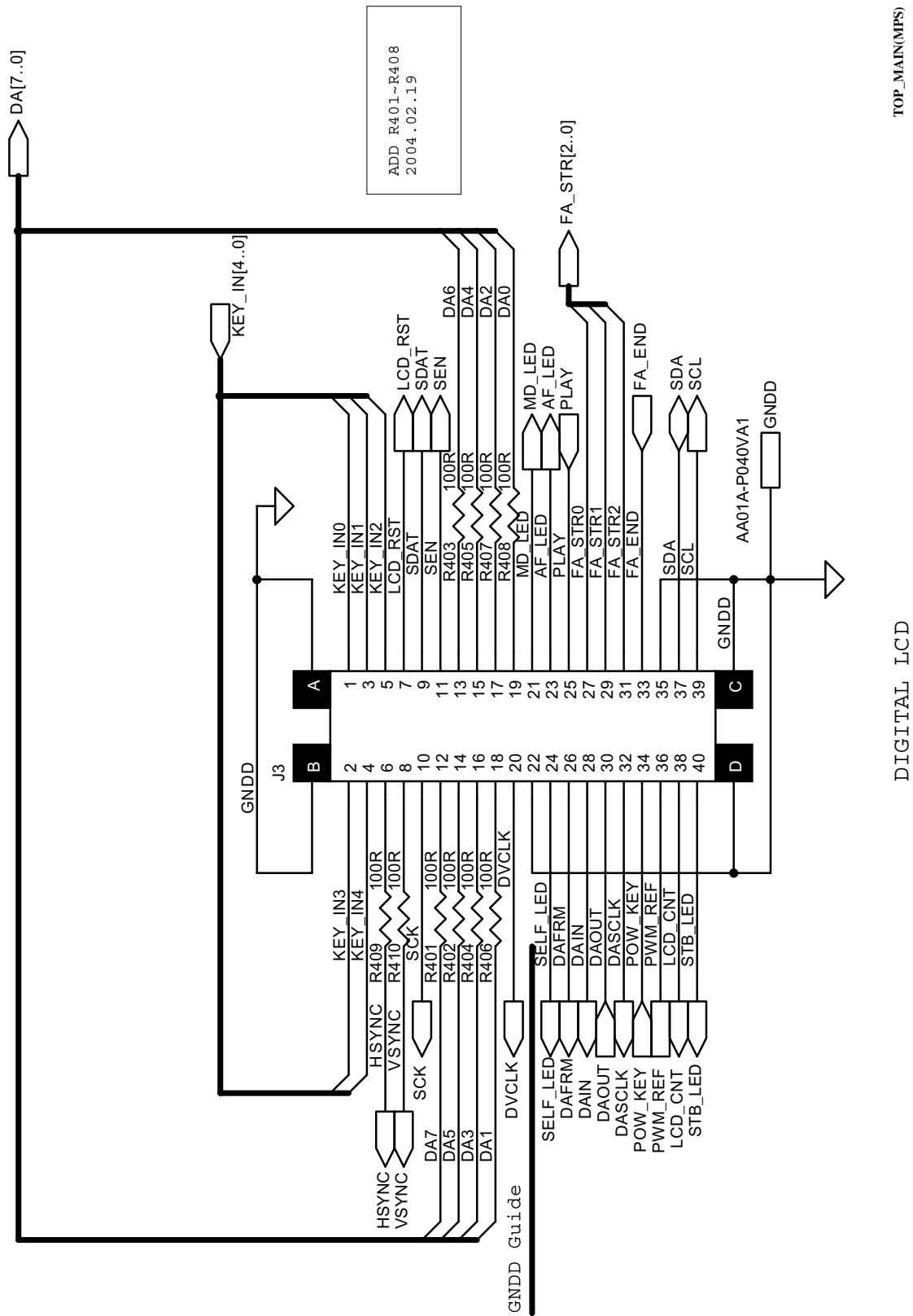
VI. CIRCUIT DIAGRAM

13) STROBO & LIGHT SEN (POWER)



STROBO & LIGHT SEN (PMS)

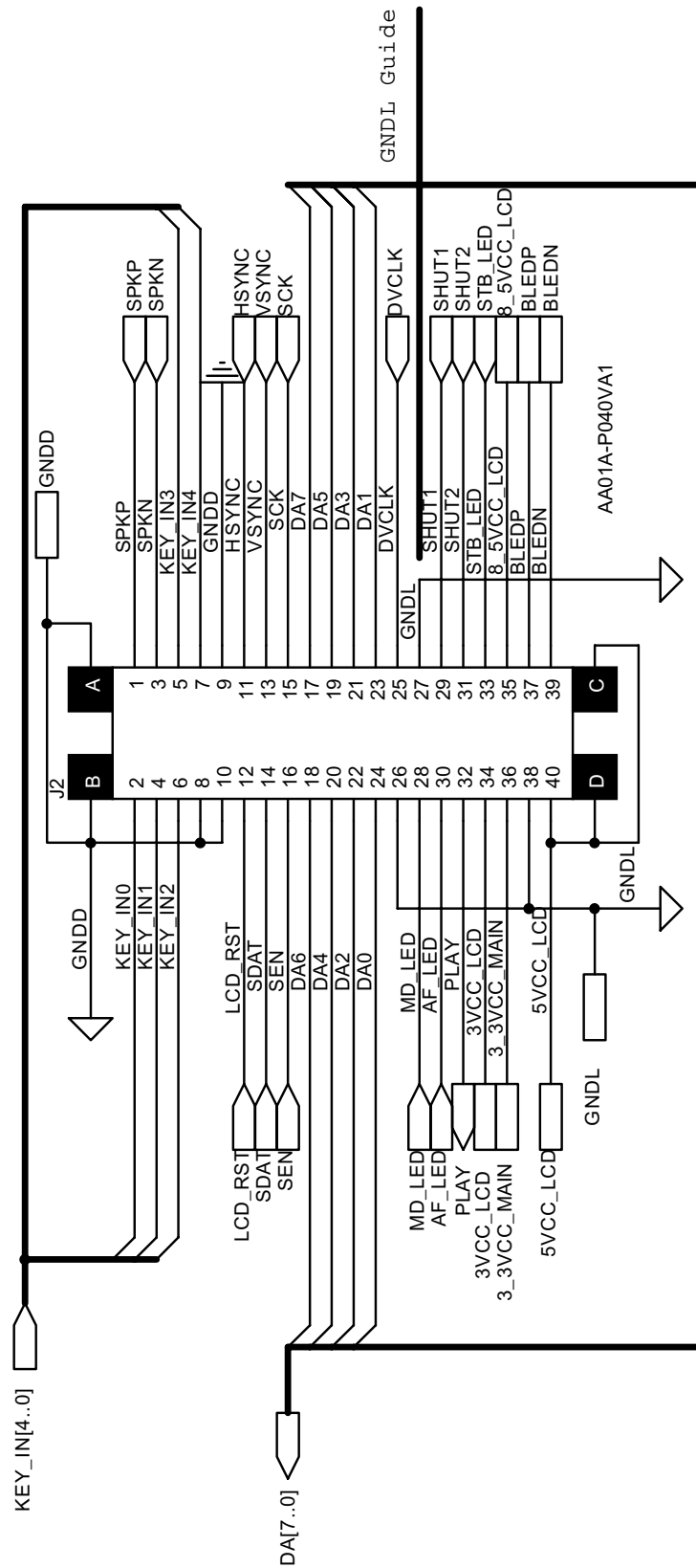
14) TOP__MAIN (POWER)



TOP_MAIN(MPS)

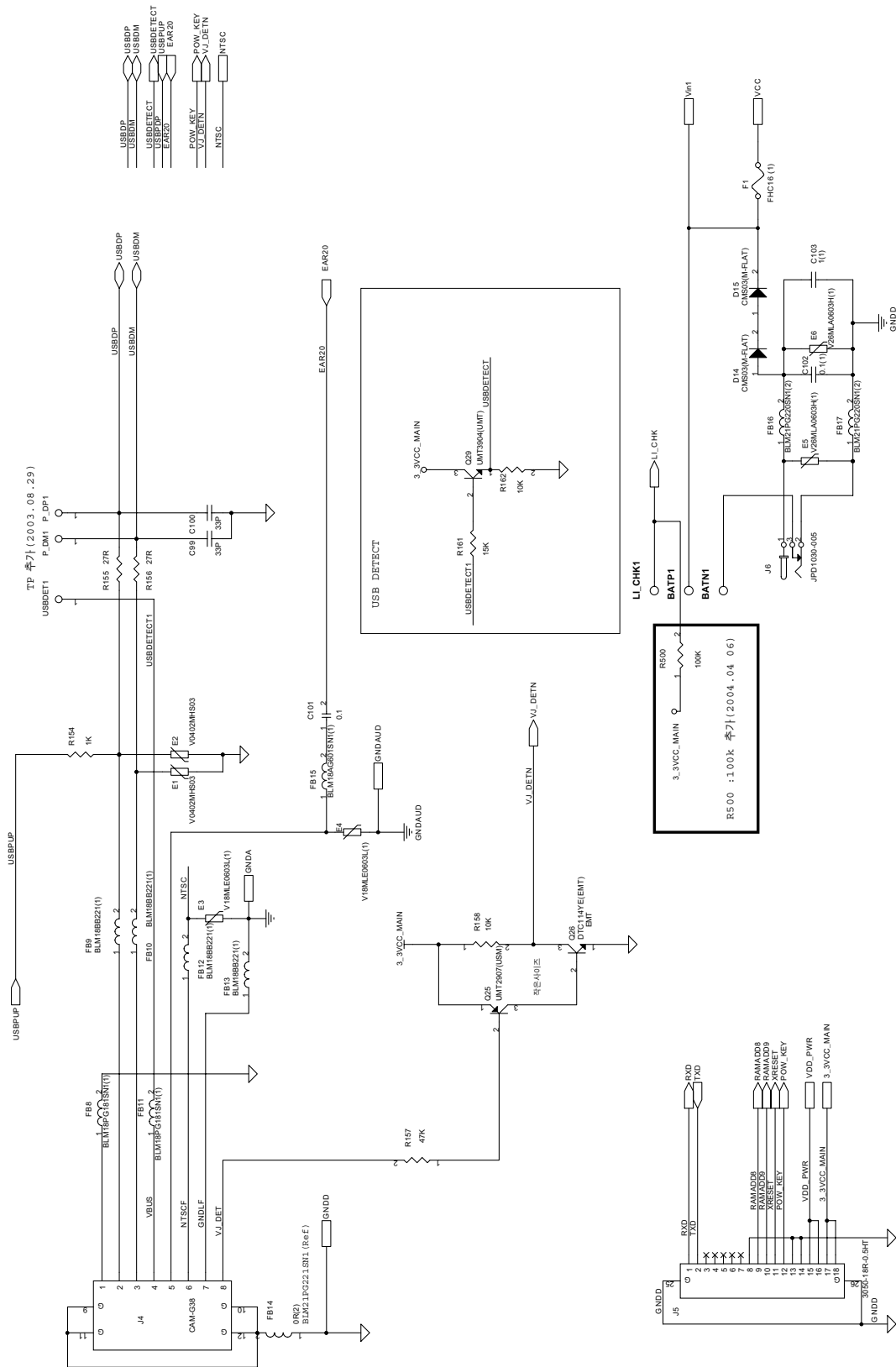
VI. CIRCUIT DIAGRAM

15) TOP_BACK (POWER)



TOP_BACK(MPS)

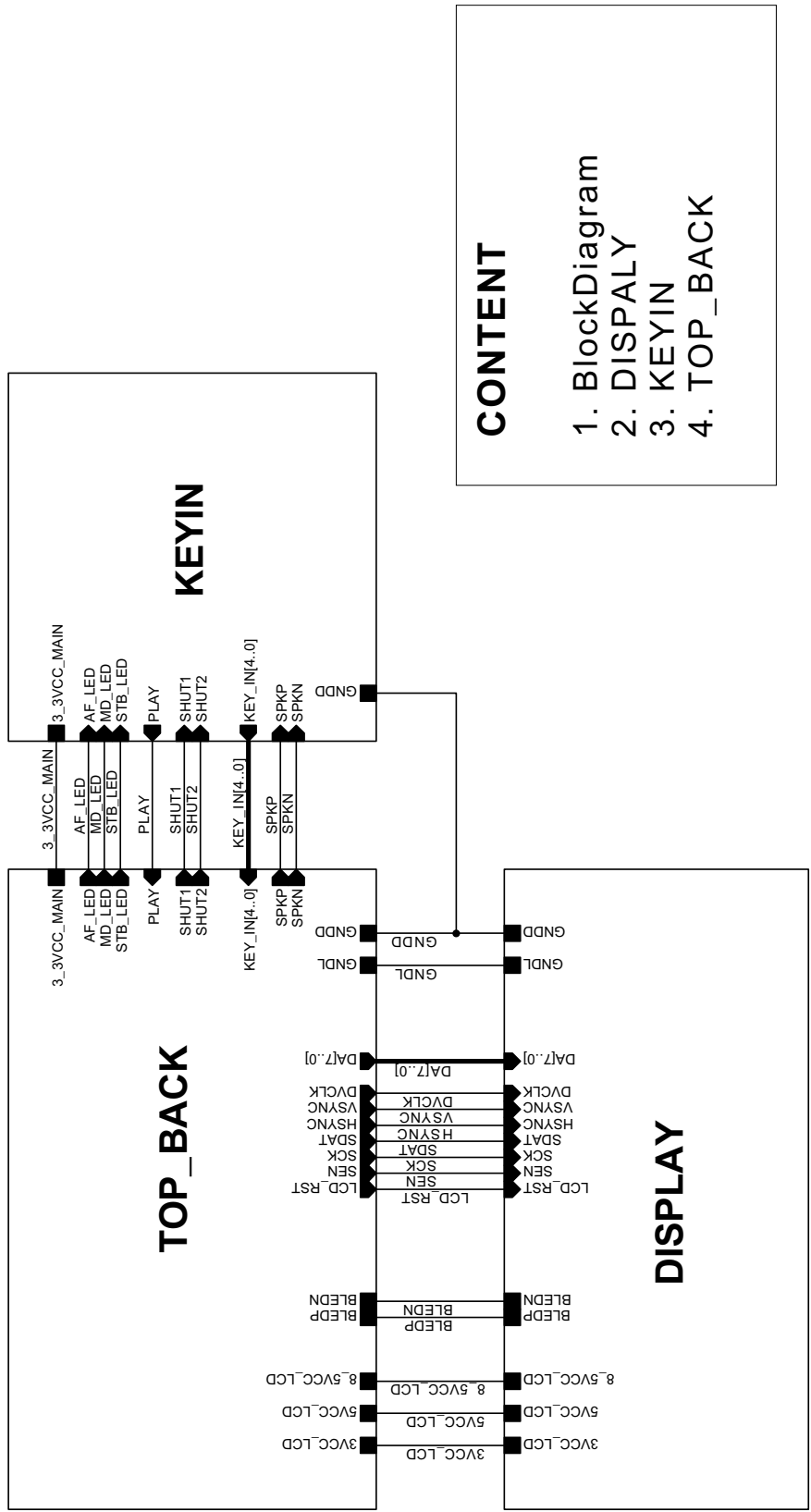
16) USB & AV & JACK (POWER)



USB&AV&JACK(MPS)

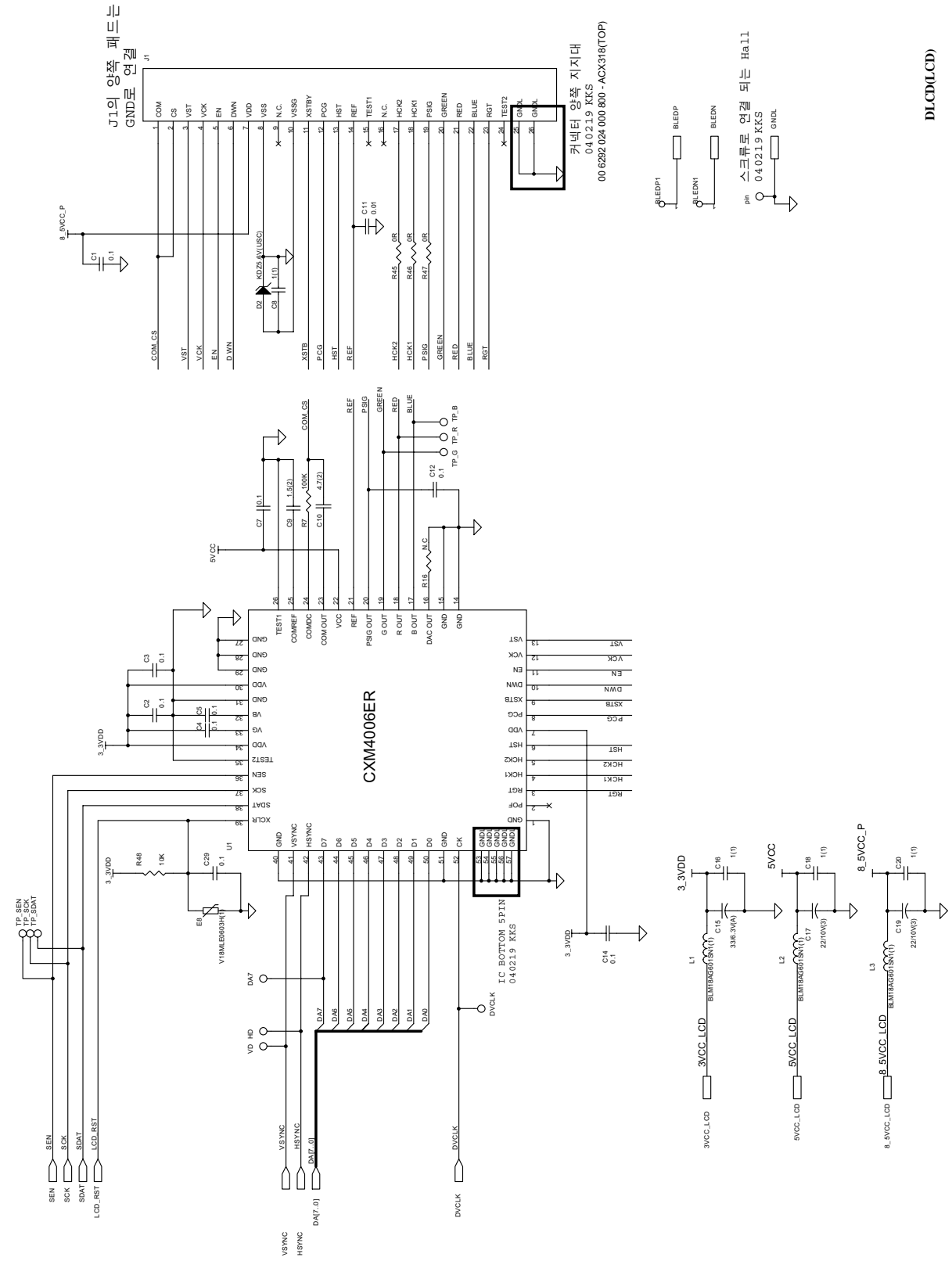
VI. CIRCUIT DIAGRAM

17) LCD__BLCOK DIAGRAM



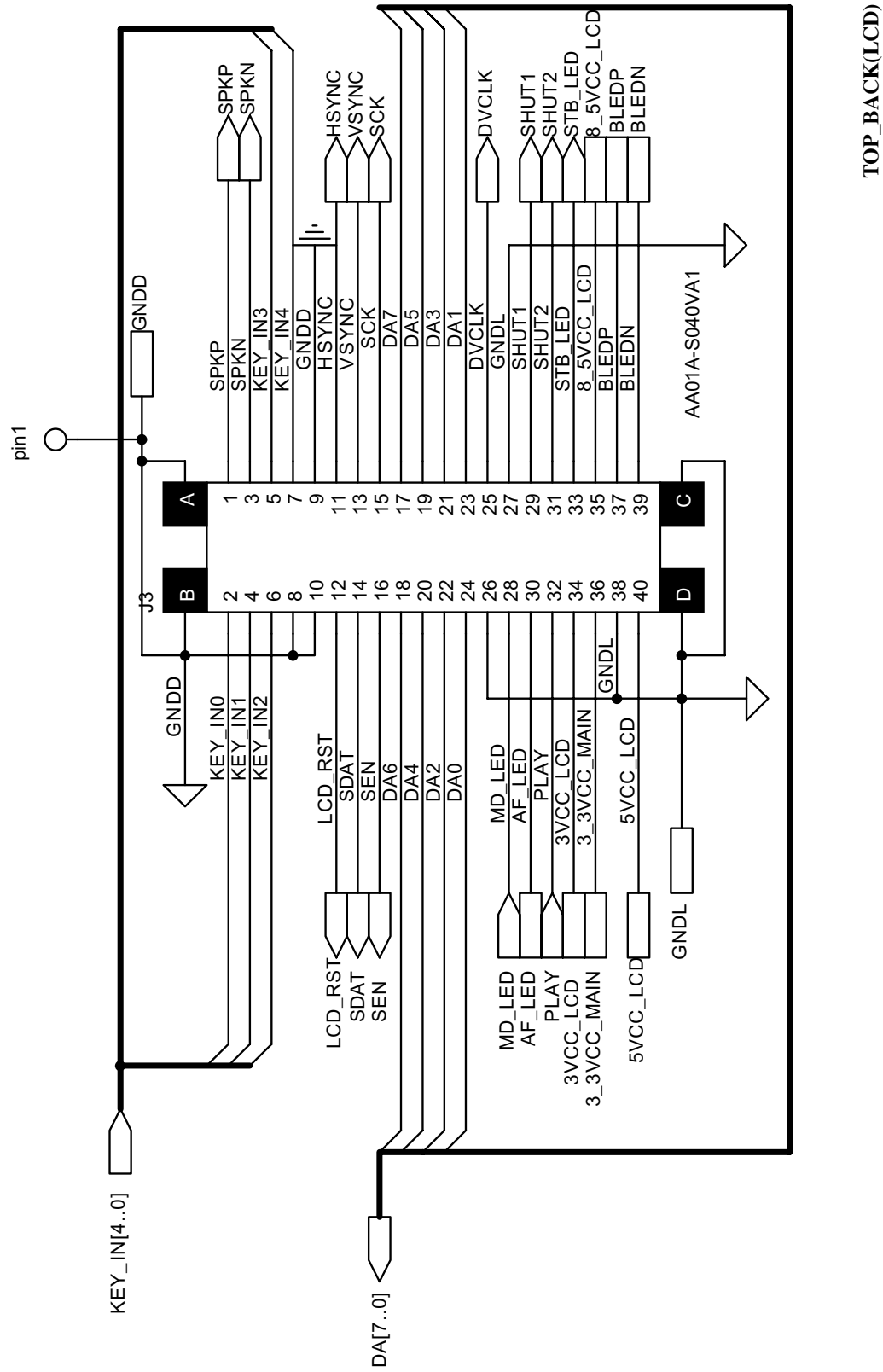
V5_LCD_BlockDiagram

18) DLCD (LCD)



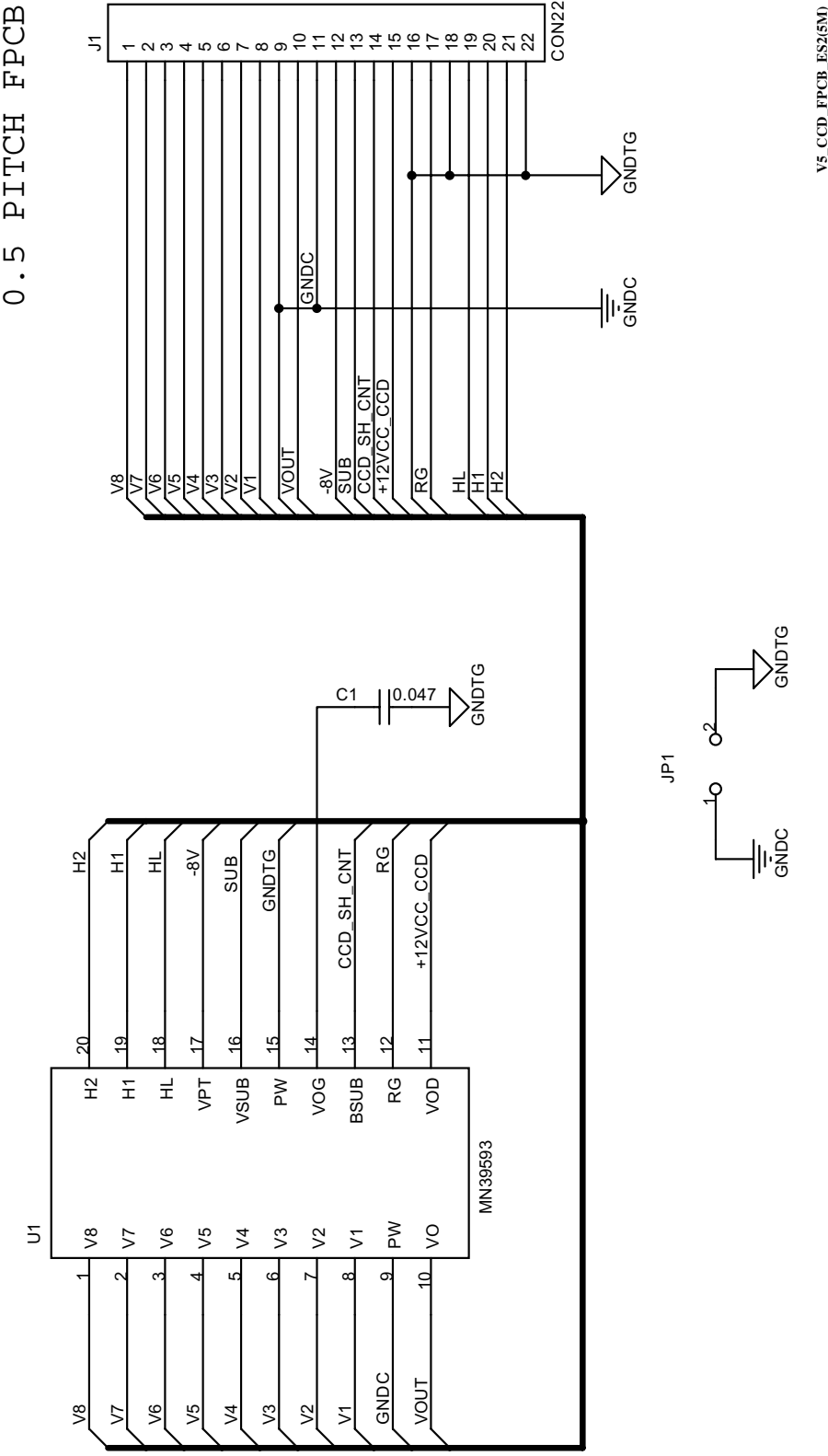


20) TOP_BACK (LCD)



VI. CIRCUIT DIAGRAM

21) CCD F PCB



VII. TROUBLESHOOTING

1. Check List for repairing

1) When received

- Grasp customer's complaints exactly
- Check the product's condition of exterior view(damage by shock)
- Check the condition of battery and all kinds of cables(USB cable, AV cable, AC Adaptor)
- Check working condition with new battery or adaptor
 - ON/OFF
 - TELE/WIDE
 - Check if the image shows correctly with TFT LCD on
(Turn on the TFT LCD and check if the image shows correctly)
 - Take a picture by pressing the shutter button
 - Turn the dial and check if modes change correctly
- Download from the camera by connecting it with PC and check if correctly
- Check if the image shows correctly with it connected to monitor

2) When repairing

- Check the connectors' condition to each PCB(dirt, short, assembly, lean, etc.)
- Change each doubtful PCB one after another to find out bad PCB
 - When doubtful of Main PCB Ass's, check the operating condition by assembling with a good Main PCB ass'y (Manufacture of checking machine for each bad PCB is in schedule)
- Refer to each page to fix bad items of each PCB
- Check the connections of each PCB before assembling covers and embarkation of the parts (soldering condition) with the naked eye
- After assembling the camera, insert battery only when condition of the parts' embarkation and connection is all right (Inserting battery when the camera has inside-short will result in death or serious injury to the CPU and all parts)
- After setting the mode dial in position assemble the Top Cover and check if the dial nverts correctly

3) After repairing

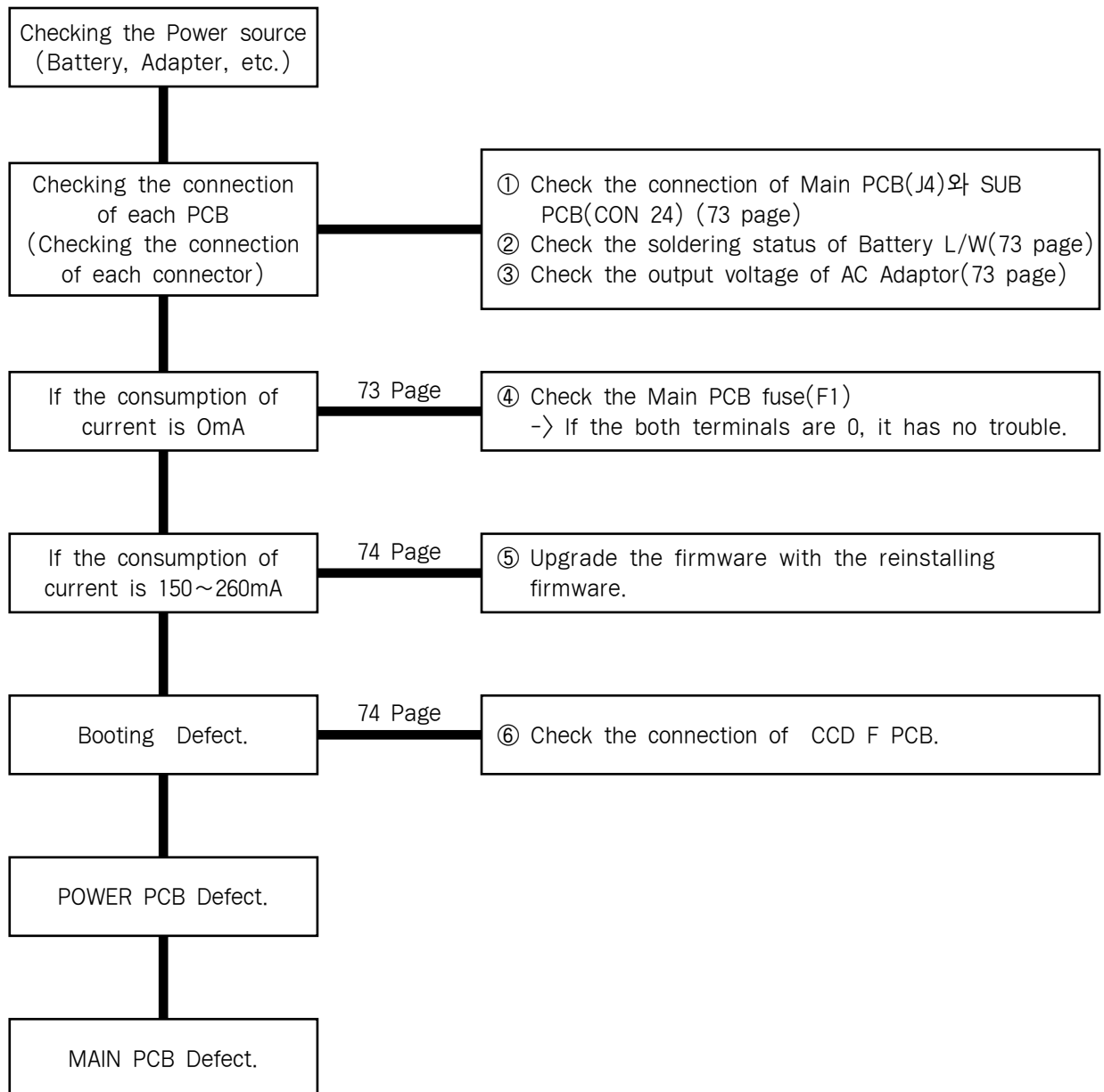
3-1) A/S Check list for each item

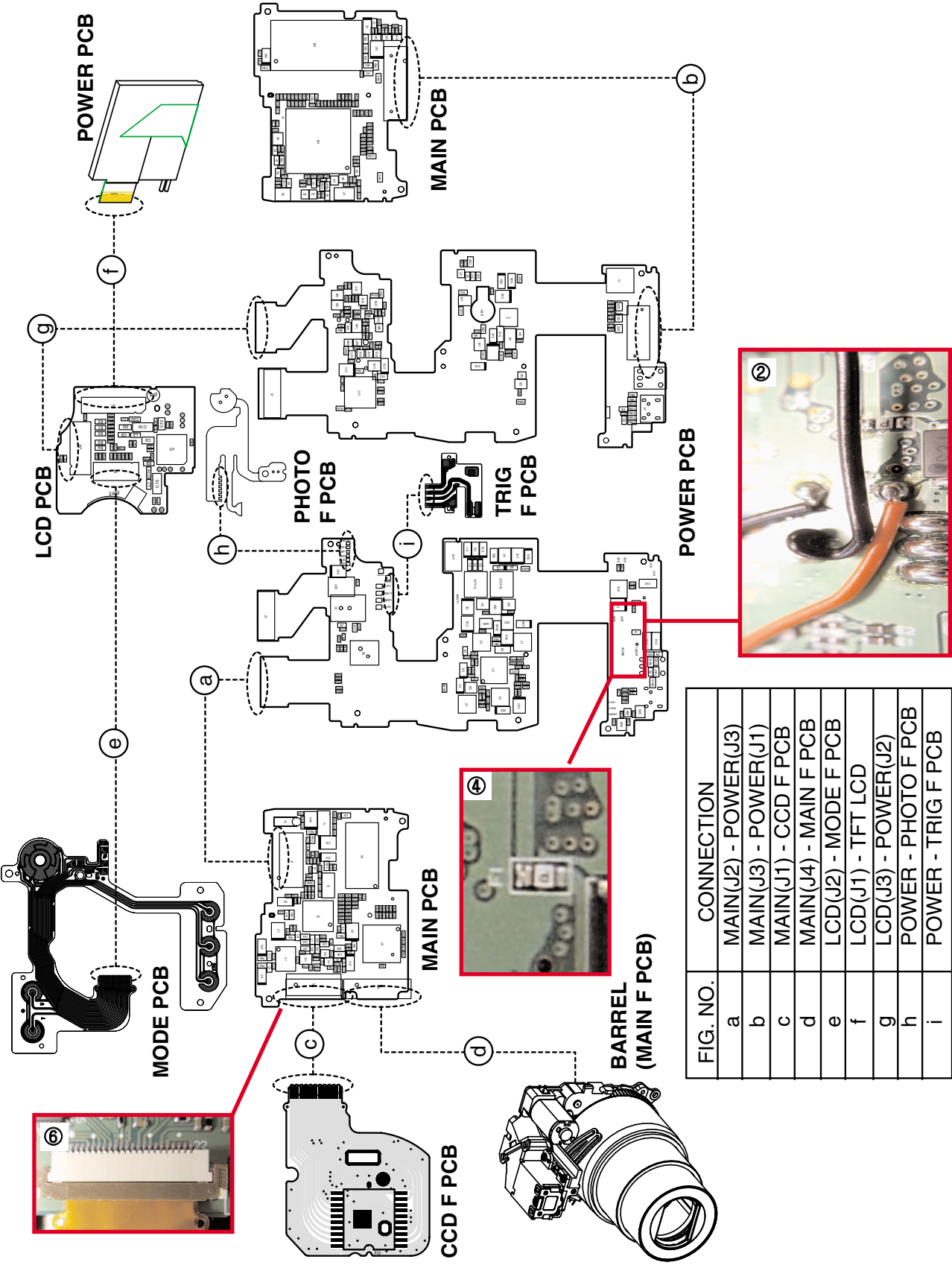
To judge inferior goods, begin with doubtful PCBs, replacing one after another to replace bad parts

ex.) When Main PCB ass'y is in trouble, try replacing it with inferior camera's fair Main PCB ass'y

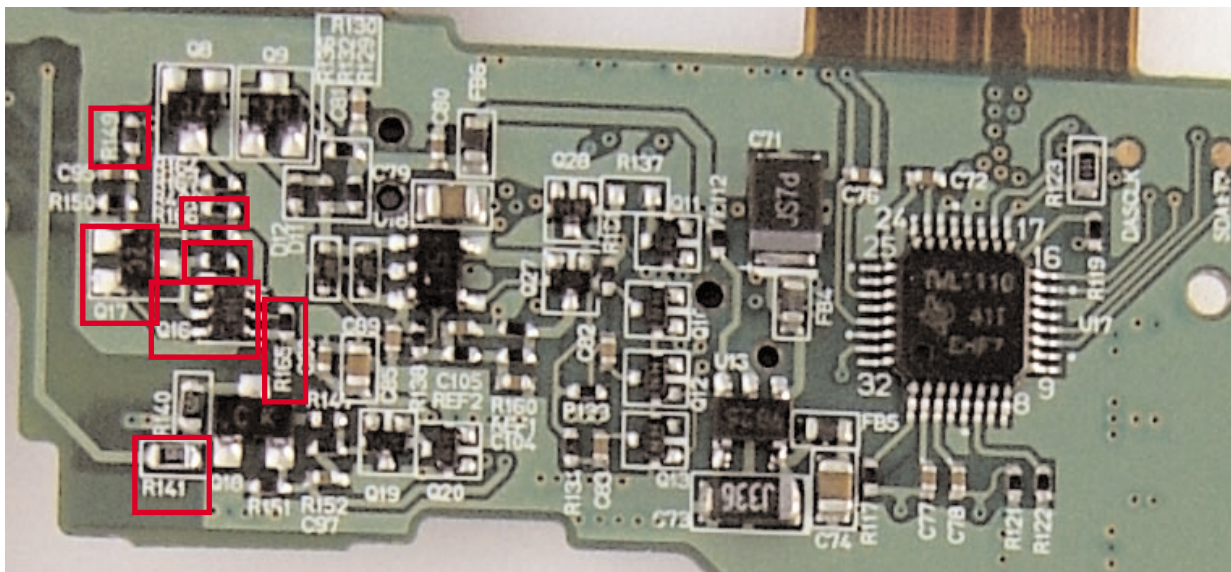
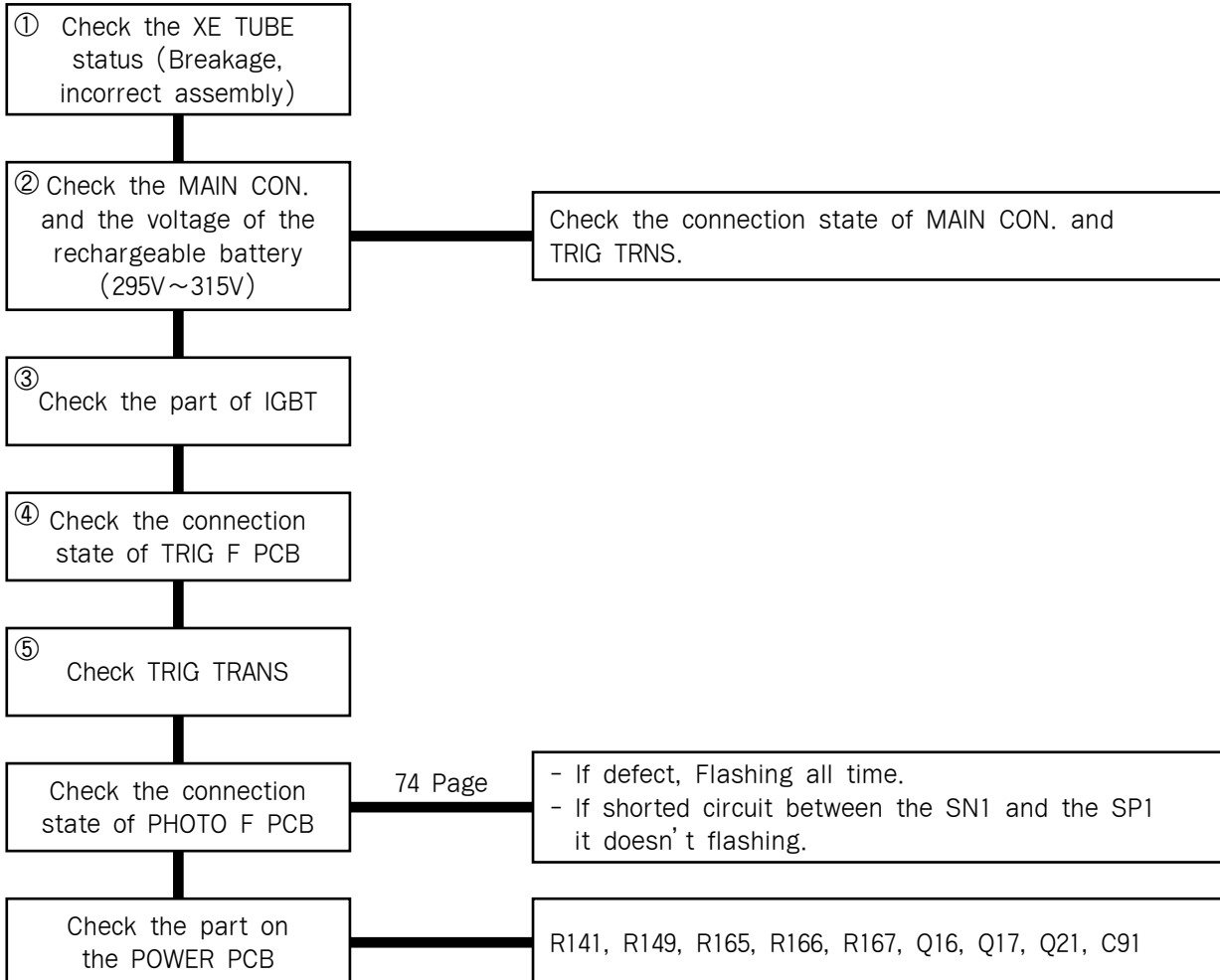
2. Main troubleshooting

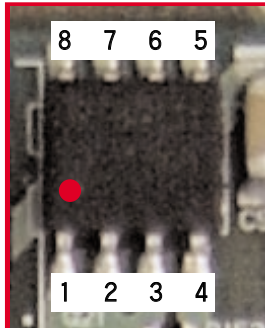
1) The power can't be turned on





2) Flashing Defect.

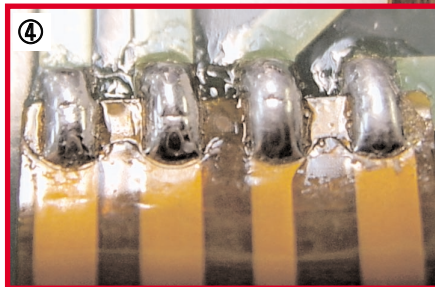
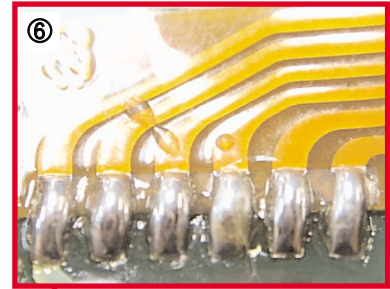




③ How to check the IGBT(Q21)

Ω of both terminal of PIN 1,2,3,4 :
About 4.7k Ω

If the Ω of both terminal of PIN 1,2,3,4 are hundreds of k Ω or tens of thousands k Ω , the parts have no trouble.

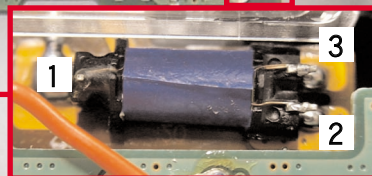


⑤ How to check the TRIG TRANS

Ω of both terminals of PIN 1 and 2
: About 40 Ω

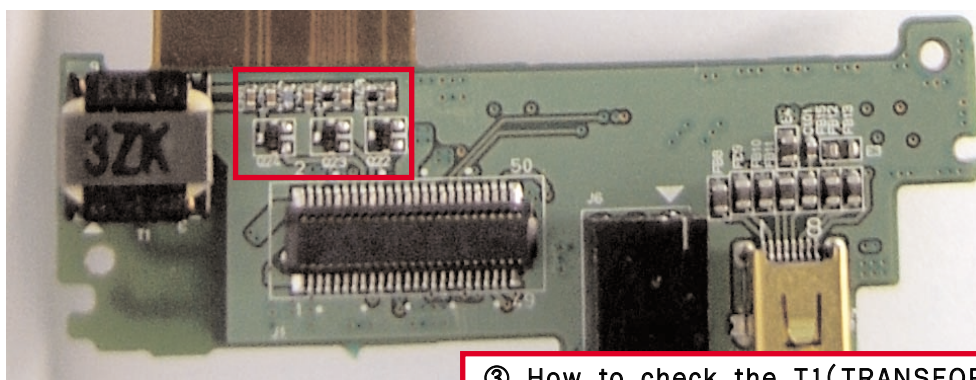
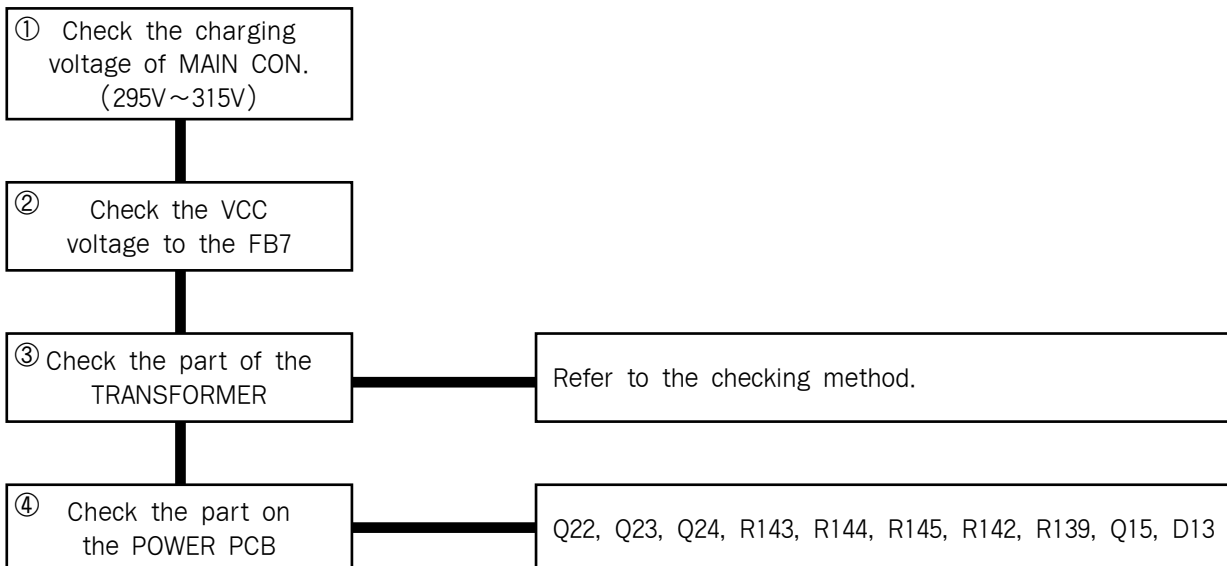
Ω of both terminals of PIN 1 and 3
: About 140 Ω

Ω of both terminals of PIN 2 and 3
: About 1 Ω .



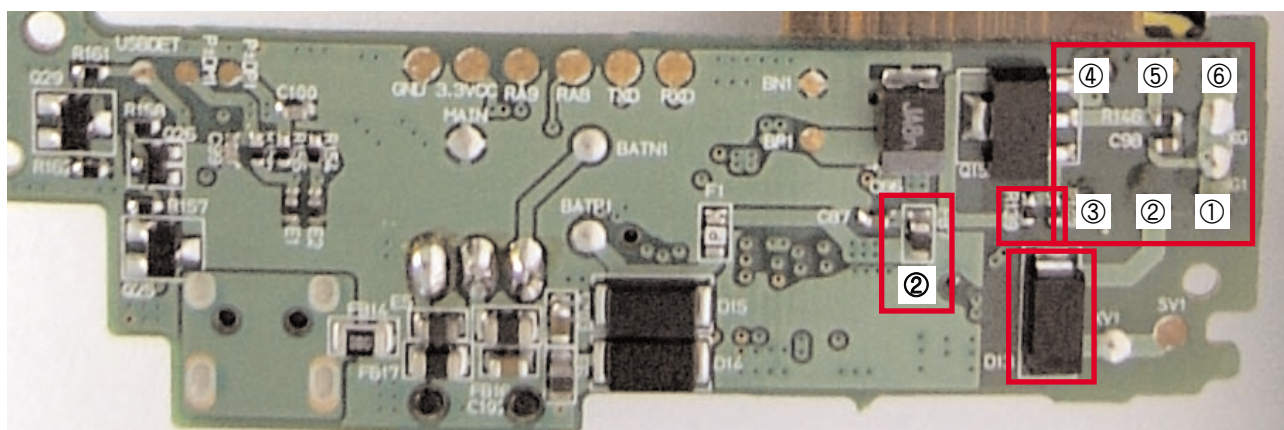
VII. TROUBLESHOOTING

3) Charging Defect.



③ How to check the T1(TRANSFORMER)

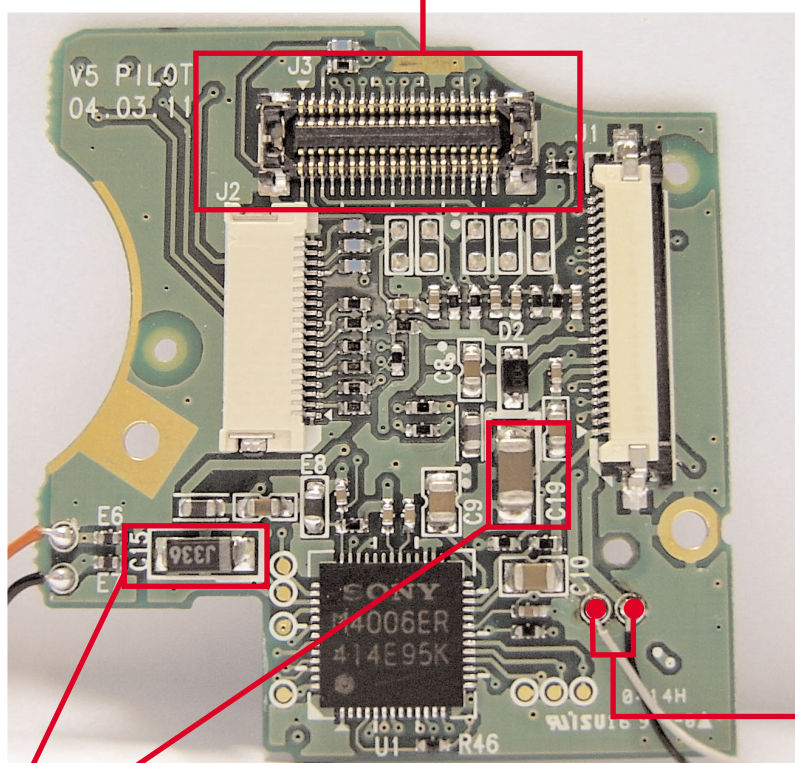
Ω of both terminals of PIN 1 and 2 : About 47 Ω
 Ω of both terminals of PIN 3 and 4 : About 0.7 Ω
 Ω of both terminals of PIN 5 and 6 : About 0.1 Ω



4) TFT LCD Related Defect.

1st check point related to LCD monito - J3

Check the connecting status of LCD and F PCB or whether the F PCB is torn.



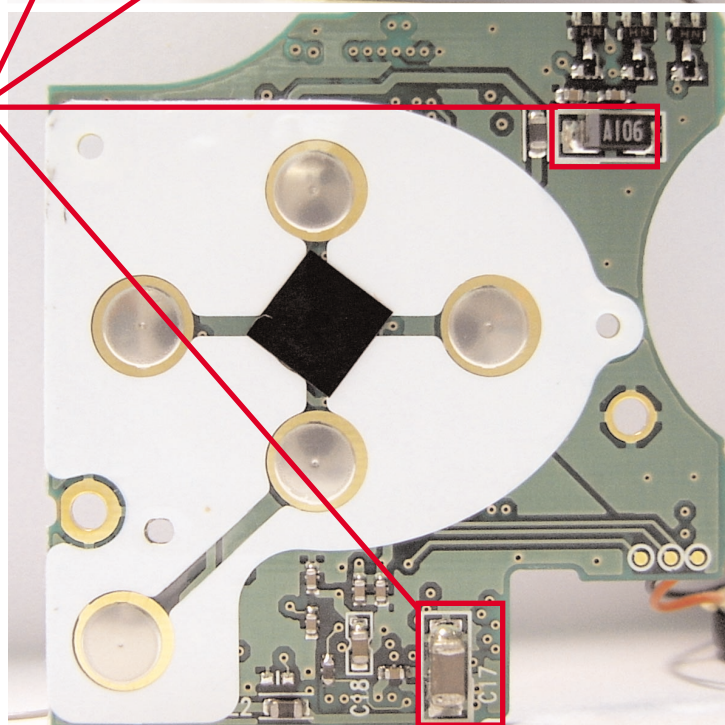
The LCD BACK LIGHT turns on, but no image is displayed on the TFT LCD monitor

C15 : 3.3V

C17 : 5V

C19 : Check whether the output voltate is 8.5V

If the voltage isn't 8.5V, check the LCD and F PCB connecting status and J3 connector



A image displays on the LCD monitor, but the LCD BACK LIGHT doesn't turn on.

Check both terminal.

If the voltage is 0V : Check the connection state of J3

If the voltage is 7.6V : TFT LCD has trouble

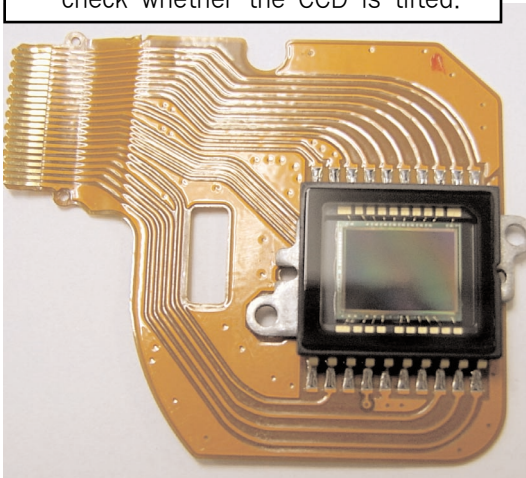
VII. TROUBLESHOOTING

5) CCD related Defect.

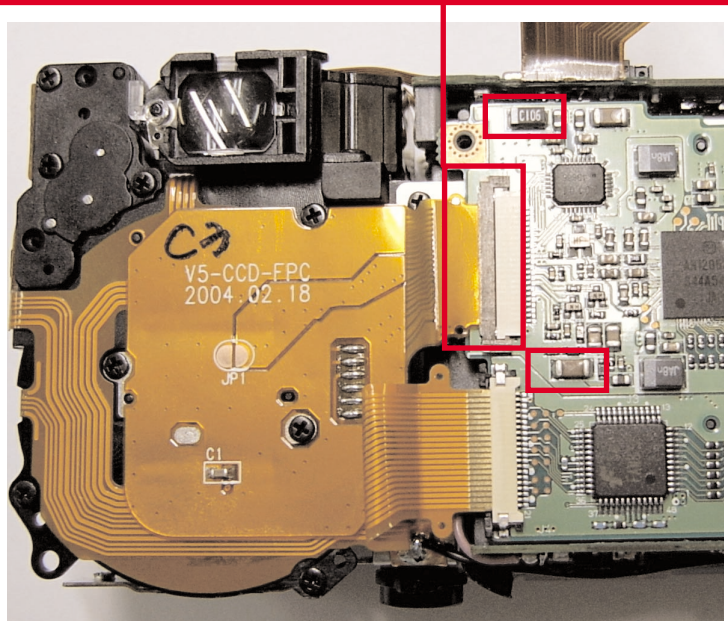
How to check the error

Check whether the image displays on the external monitor correctly. When you connect the camera and external monitor, use the A/V cable. If the image displays correctly, the TFT LCD has trouble and displays incorrectly, the CCD has trouble.

- ② If the CCD has trouble, change the CCD
※ When the CCD is assembled, check whether the CCD is tilted.

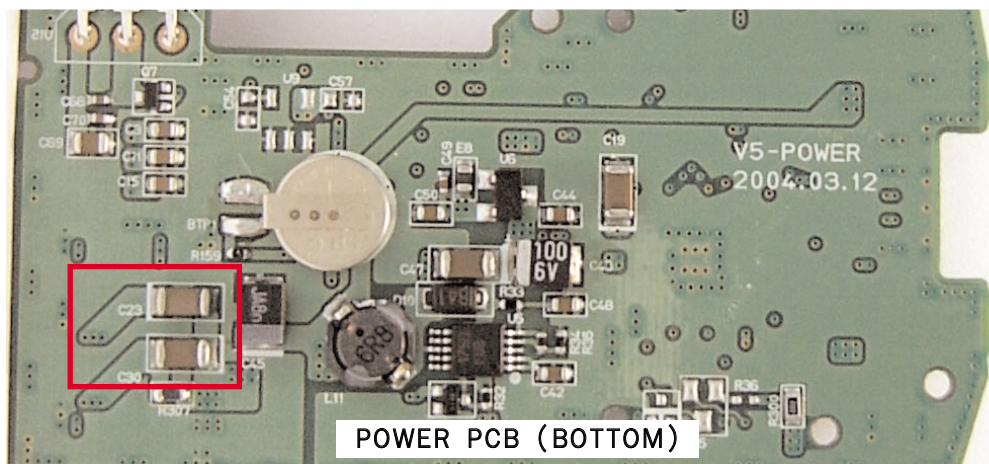


- ① Check the connection state of the CCD F PCB and the MAIN PCB(J1)



- ③ Black or White image display.

1. Check the CCD_POWER on MAIN PCB.
 - C2, C6 : -7.5V
 - C16, C37 : 13V
2. Check the CCD_POWER on POWER PCB.
 - C30 : -7.5V
 - C23 : 13V

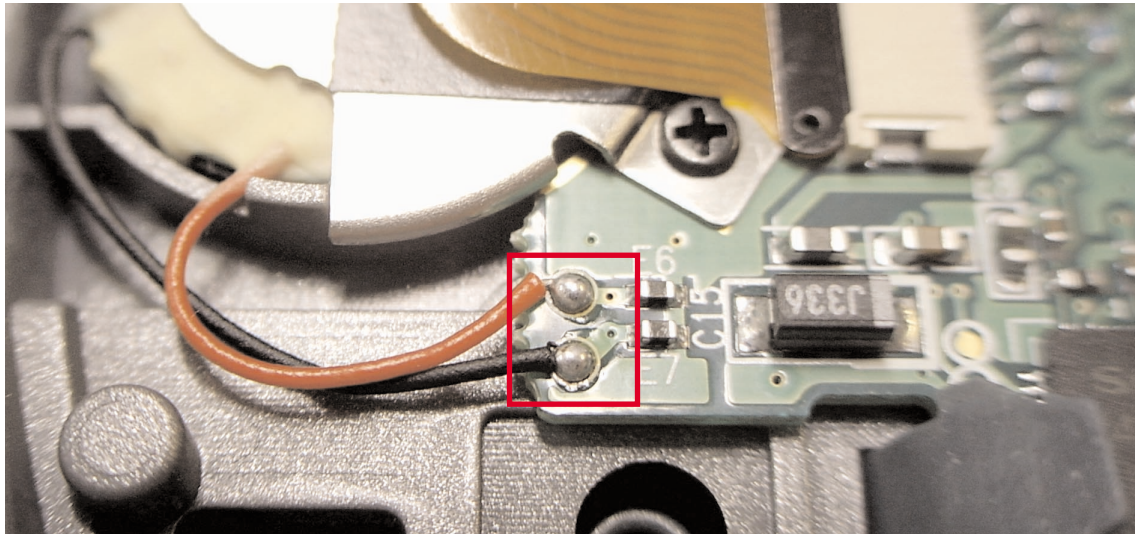


POWER PCB (BOTTOM)

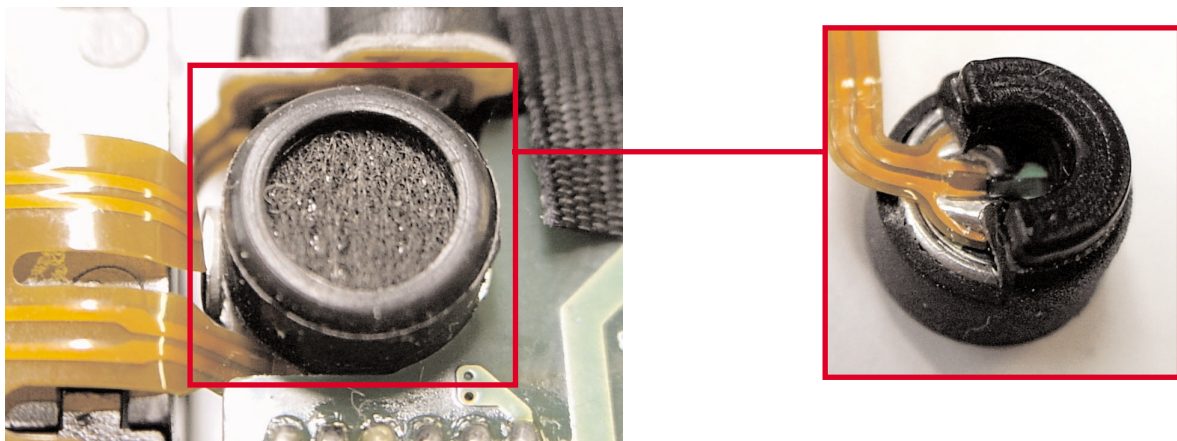
6) AUDIO related Defect.

- Check the SOUND menu is set to ON.
- When the MIC & SPEAKER are soldered, take care of the breakage by a high temperature.

1. Check the soldering status of SPEAKER lead wire.



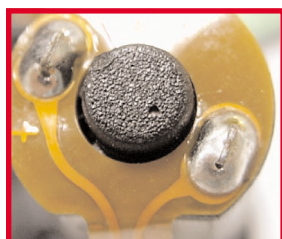
2. Check the soldering status of MIC lead wire.



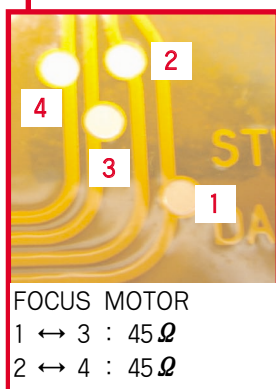
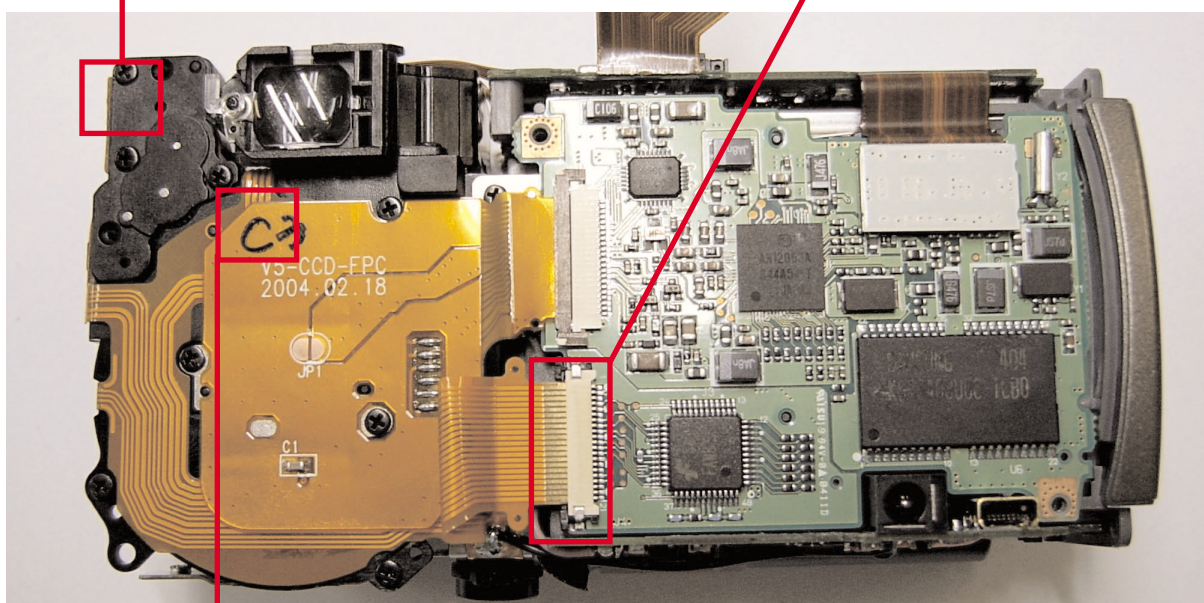
VII. TROUBLESHOOTING

7) ZOOM related Defect.

1. Check the assembly status of MAIN F PCB.
(Assembly status, Breakage of F PCB, Dust, etc.)
2. Check the ZOOM MOTOR and FOCUS MOTOR status.



ZOOM MOTOR : 25Ω



FOCUS MOTOR
1 ↔ 3 : 45Ω
2 ↔ 4 : 45Ω

8) Card related Defect.

If errors related to the card(Recognition error, CARD LOCK message error, etc.) take place

① Check the soldering state of the CARD SLOT.

② If the [CARD LOCK] displayed all ways. Check the soldering state of PIN.

