Service Manual

SD Video Camera









SDR-S10PC SDR-S10PL SDR-S10E SDR-S10EE SDR-S10EF SDR-S10EG SDR-S10EP SDR-S10GC SDR-S10GN SDR-S18GK

SDR-S10P

Vol. 1 Colour

(K).....Black Type

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

TABLE OF CONTENTS

	PAGE
1 Safety Precaution	
1.1. General Guidelines	
1.2. Leakage Current Cold Check	
1.3. Leakage Current Hot Check (See Figure 1.)	3
2 Warning	4
2.1. Prevention of Electrostatic Discharge (ESD)	
to ElectrostaticallySensitive (ES) Devices	
2.2. How to Recycle the Lithium Ion Battery (U.S.	
Only)	
2.3. Caution for AC Cord(For EG/GC)	
2.4. How to Replace the Lithium Battery	6
3 Service Navigation	
3.1. Introduction	7
3.2. General Description About Lead Free Solder	
(PbF)	
3.3. Important Notice 1:(Other than U.S.A. and	
Canadian Market)	
3.4. How to Define the Model Suffix (NTSC or PAL	
model)	
4 Specifications	
5 Location of Controls and Components	
6 Service Mode	
6.1. Lock Search History Indication	13
7 Service Fixture & Tools	14
7.1. When Replacing the Main PCB	14
7.2. Service Position	
8 Disassembly and Assembly Instructions	
8.1. Disassembly Flow Chart	
8.2. PCB Location	
8.3. Disassembly Procedure	
9 Measurements and Adjustments	
9.1. Electric Adjustment	
10 Factory Setting	
10.1. HOW TO TURN ON THE FACTORY	
SETTINGS?	
10.2 WHAT IS THE FACTORY SETTINGS?	30

PAGE

1 Safety Precaution

1.1. General Guidelines

1. IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by

in the Schematic Diagrams, Circuit Board Layout, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent X-RADIATION, shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

- 2. An Isolation Transformer should always be used during the servicing of AC Adaptor whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks. It will also protect AC Adaptor from being damaged by accidental shorting that may occur during servicing.
- 3. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
- After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
- After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.2. Leakage Current Cold Check

- 1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
- 2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1 M Ω and 5.2 M Ω . When the exposed metal does not have a return path to the chassis, the reading must be infinity.

1.3. Leakage Current Hot Check (See Figure 1.)

- 1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
- 2. Connect a 1.5 k Ω , 10 W resistor, in parallel with a 0.15 μ F capacitor, between each exposed metallic part on the set and a good earth ground, as shown in Figure 1.
- 3. Use an AC voltmeter, with 1 k Ω /V or more sensitivity, to measure the potential across the resistor.
- 4. Check each exposed metallic part, and measure the voltage at each point.
- 5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
- 6. The potential at any point should not exceed 0.75 V RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 mA. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

Hot-Check Circuit

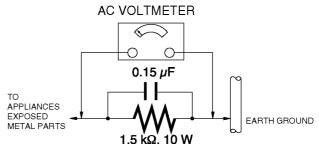


Figure. 1

2 Warning

2.1. Prevention of Electrostatic Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electrostatic discharge (ESD).

- 1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
- 2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
- 3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
- 4. Use only an antistatic solder removal device. Some solder removal devices not classified as "antistatic (ESD protected)" can generate electrical charge sufficient to damage ES devices.
- 5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
- 6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
- 7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

CAUTION:

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

2.2. How to Recycle the Lithium Ion Battery (U.S. Only)

ENGLISH



A lithium ion/polymer battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.

FRANÇAIS



L'appareil que vous vous êtes procuré est alimenté par une batterie au lithium-ion/polymère recyclable. Pour des renseignements sur le recyclage de la batterie, veuillez composer le 1-800-8-BATTERY.

2.3. Caution for AC Cord (For EB/GC)

2.3.1. Information for Your Safety

IMPORTANT

Your attention is drawn to the fact that recording of prerecorded tapes or discs or other published or broadcast material may infringe copyright laws.

WARNING

To reduce the risk of fire or shock hazard, do not expose this equipment to rain or moisture.

CAUTION

To reduce the risk of fire or shock hazard and annoying interference, use the recommended accessories only.

FOR YOUR SAFETY

DO NOT REMOVE THE OUTER COVER

To prevent electric shock, do not remove the cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

2.3.2. Caution for AC Mains Lead

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three-pin mains plug for your safety and convenience.

A 5-ampere fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5 amperes and it is approved by ASTA or BSI to BS1362

Check for the ASRA mark or the BSI mark on the body of the fuse.



If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover, the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local Panasonic Dealer.

If the fitted moulded plug is unsuitable for the socket outlet in your home then the fuse should be removed and the plug cut off and disposed of safety.

There is a danger of severe electrical shock if the cut off plug is inserted into any 13-ampere socket.

If a new plug is to be fitted please observe the wiring code as shown below.

If in any doubt, please consult a qualified electrician.

2.3.2.1. Important

The wires in this mains lead are coloured in accordance with the following code:

ſ	Blue	Neutral
ſ	Brown	Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.

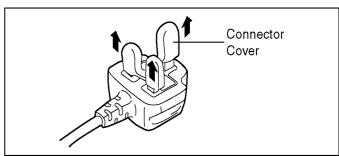
The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED

Under no circumstances should either of these wires be connected to the earth terminal of the three pin plug, marked with the letter E or the Earth Symbol.



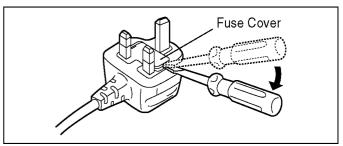
2.3.2.2. Before Use

Remove the Connector Cover as follows.

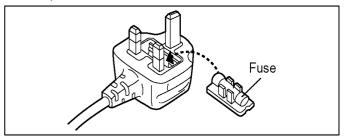


2.3.2.3. How to Replace the Fuse

1. Remove the Fuse Cover with a screwdriver.



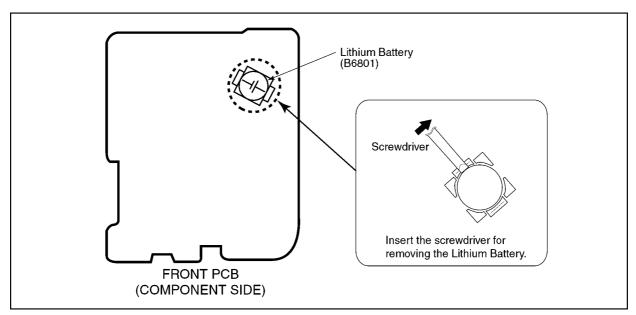
2. Replace the fuse and attach the Fuse cover.



2.4. How to Replace the Lithium Battery

2.4.1. Replacement Procedure

- 1. Remove the FRONT PCB. (Refer to Disassembly Procedures.)
- 2. Remove the Lithium battery (Ref. No. "B6801" at component side of FRONT PCB) and then replace it into new one.



NOTE:

This Lithium battery is a critical component.

(Type No.: ML-614S/ZT Manufactured by Matsushita Battery Industrial Co., Ltd.)

It must never be subjected to excessive heat or discharge.

It must therefore only be fitted in requirement designed specifically for its use.

Replacement batteries must be of same type and manufacture.

They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.

Do not attempt to re-charge the old battery or re-use it for any other purpose.

It should be disposed of in waste products destined for burial rather than incineration.

(For English)

CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the manufacturer.

Dispose of used batteries according to the manufacturer's instructions.

(For German)

ACHTUNG

Explosionsgefahr bei falschem Anbringen der Batterie. Ersetzen Sie nur mit einem äquivalentem vom Hersteller empfohlenem Typ.

Behandeln Sie gebrauchte Batterien nach den Anweisungen des Herstellers.

(For French)

MISE EN GARDE

Une batterie de remplacement inappropriée peut exploser. Ne remplacez qu'avec une batterie identique ou d'un type recommandé par le fabricant. L'élimination des batteries usées doit être faite conformément aux instructions du manufacturier.

NOTE:

Above caution is applicable for a battery pack which is for SDR-S10/S18 series, as well.

3 Service Navigation

3.1. Introduction

This service manual contains technical information, which allow service personnel's to understand and service this model. Please place orders using the parts list and not the drawing reference numbers.

If the circuit is changed or modified, the information will be followed by service manual to be controlled with original service manual.

3.2. General Description About Lead Free Solder (PbF)

The lead free solder has been used in the mounting process of all electrical components on the printed circuit boards used for this equipment in considering the globally environmental conservation.

The normal solder is the alloy of tin (Sn) and lead (Pb). On the other hand, the lead free solder is the alloy mainly consists of tin (Sn), silver (Ag) and Copper (Cu), and the melting point of the lead free solder is higher approx.30°C (86°F) more than that of the normal solder.

Distinction of PCB Lead Free Solder being used

The letter of "PbF" is printed either foil side or components side	PbF
on the PCB using the lead free solder.(See right figure)	FDF

Service caution for repair work using Lead Free Solder (PbF)

- The lead free solder has to be used when repairing the equipment for which the lead free solder is used. (Definition: The letter of "PbF" is printed on the PCB using the lead free solder.)
- To put lead free solder, it should be well molten and mixed with the original lead free solder.
- Remove the remaining lead free solder on the PCB cleanly for soldering of the new IC.
- Since the melting point of the lead free solder is higher than that of the normal lead solder, it takes the longer time to melt the lead free solder.
- Use the soldering iron (more than 70W) equipped with the temperature control after setting the temperature at 350±30°C (662±86°F).

Recommended Lead Free Solder (Service Parts Route.)

• The following 3 types of lead free solder are available through the service parts route.

RFKZ03D01K-----(0.3mm 100g Reel) RFKZ06D01K-----(0.6mm 100g Reel) RFKZ10D01K-----(1.0mm 100g Reel)

Note

3.3. Important Notice 1:(Other than U.S.A. and Canadian Market)

- 1. The service manual does not contain the following information, because of the impossibility of servicing at component level without concerned equipment/facilities.
 - a. Schematic diagram, Block Diagram and PCB layout of MAIN PCB.
 - b. Parts list for invidual parts for MAIN PCB.

When a part replacement is required for repairing MAIN PCB, replace as an assembled parts. (Main PCB)

- 2. The following category is /are recycle module part. Please send it/them to Central Repair Center.
 - MAIN PCB (VEP03H23A: SDR-S10P/PC/PL)
 - MAIN PCB (VEP03H23B : SDR-S10E/EB/EF/EG/EP)
 - MAIN PCB (VEP03H23C : SDR-S10GC/GN)
 - MAIN PCB (VEP03H23D : SDR-S10EE)
 - MAIN PCB (VEP03H23H: SDR-S18GK)

^{*} Ingredient: tin (Sn) 96.5%, silver (Ag) 3.0%, Copper (Cu) 0.5%, Cobalt (Co) / Germanium (Ge) 0.1 to 0.3%

3.4. How to Define the Model Suffix (NTSC or PAL model)

There are six kinds of SDR-S10/S18.

- a) SDR-S10P
- b) SDR-S10PC
- c) SDR-S10E/EB/EF/EG/EP
- d) SDR-S10EE
- e) SDR-S10GN
- f) SDR-S10PL/GC, SDR-S18GK

What is the difference is that the "INITIAL SETTING" data which is stored in Flash ROM mounted on Main PCB.

3.4.1. Defining methods:

To define the model suffix to be serviced, refer to the rating label which is putted on the bottom side of the Unit.

a) SDR-S10P

The nameplate for this model show the following Safty registration mark.



b) SDR-S10PC

The nameplate for this model show the following Safty registration mark.



c) SDR-S10E/EB/EF/EG/EP

The nameplate for these models show the following Safty registration mark.



d) SDR-S10EE

The nameplate for this model show the following Safty registration mark.



e) SDR-S10GN

The nameplate for this model show the following Safty registration mark.



f) SDR-S10PL/GC, SDR-S18GK

The nameplate for these models do not show any above Safty registration mark.

NOTE:

After replacing the MAIN PCB, be sure to achieve adjustment.

The adjustment instruction is available at "software download" on the "Support Information from NWBG/VDBG-PAVC" web-site in "TSN system", together with Maintenance software.



Specifications

SD Video Camera

Information for your safety

DC 4.8 V (When using AC adaptor) DC 3.6 V (When using battery) Recording: 2.9 W Charging: 4.2 W Power consumption:

Signal system	EIA Standard:		
	525 lines, 60 fields NTSC color signal (only P/PC/PL)		
	625 lines, 50 fields PAL color signal (except P/PC/PL)		
	1/6" CCD image sensor Total: 680 K		
Image sensor	Effective pixels:		
	Moving picture: 340 K (4:3), 300 K (16:9)		
	Still picture: 350 K (4:3)		
	Auto Iris, F1.8 to F2.4		
Lens	Focal length:		
	2.3 mm to 23.0 mm Macro (Full range AF)		
Zoom	10× optical zoom, 25/700× digital zoom		
Monitor	2.7" wide LCD monitor (approx. 123 K pixels)		
Microphone	Stereo (with a zoom function)		
Speaker	1 round speaker		
White balance	Auto tracking white balance system		
adjustment	rate adding with balance system		
Standard illumination	1,400 lx		
Minimum	Approx. 12 lx (Low light mode, 1/60)		
required	[Approx. 2 lx with the MagicPix function]		
illumination			
Video output level	1.0 Vp-p, 75 Ω		
Audio output level	316 mV, 600 Ω		
Card reader/writer function (No copyright protection su USB Hi-Speed USB (USB 2.0) compliant, USB terminal Typ			
	PictBridge-compliant		
Dimensions	31 mm (W) × 63 mm (H) × 114 mm (D)		
(excluding the	[1.22" (W) × 2.48" (H) × 4.49" (D)]		
projecting parts)	Approx 192 - (0.40 lbs.)		
Mass	Approx. 182 g (0.40 lbs.) (without supplied battery and an SD card)		
Mass in	Approx. 204 g (0.45 lbs.)		
operation	(with supplied battery and an SD card)		
Operating temperature	0 °C to 40 °C (32 °F to 104 °F)		
Operating humidity	10% to 80%		
Battery operation time	Refer to "Charging time and recordable time".		

Motion pictures

Recording media	SD Memory Card: 256 MB/512 MB/1 GB/2 GB (FAT12 and FAT16 format corresponding) SDHC Memory Card: 4 GB (FAT32 format corresponding)
Picture size	704×480
Recordable time	Refer to "Approximate recording times of motion pictures per SD card made by Panasonic".
Compression MPEG2 (SD-Video standard compliant)	
Recording mode and transfer rate	XP: 10 Mbps (VBR) SP: 5 Mbps (VBR) LP: 2.5 Mbps (VBR)
Audio compression	MPEG1-Layer2 compliant (stereo)

Still pictures

Recording media	SD Memory Card: 8 MB/16 MB/32 MB/64 MB/128 MB/256 MB/512 MB/1 GB/2 G (FAT12 and FAT16 format corresponding) SDHC Memory Card: 4 GB (FAT32 format corresponding)	
Number of recordable pictures	Refer to "Number of recordable pictures on SD card".	
Compression	JPEG (Design rule for Camera File system, based on Exif 2.2 standard), DPOF corresponding	
Picture size	640×480 (4:3)	

AC adaptor Information for your safety

Power source:	AC 110 V to 240 V, 50/60 Hz
Power consumption:	8 W
DC output:	DC 4.8 V, 1.1 A

Dimensions	76 mm (W) × 26 mm (H) × 40 mm (D) [2.99" (W) × 1.02" (H) × 1.57" (D)]	
Mass	Approx. 80 g (0.18 lbs.)	

Battery pack Information for your safety

Maximum voltage:	DC 4.2 V	
Nominal voltage:	DC 3.6 V	
Rated capacitance:	1000 mAh	

Specifications may change without prior notice.

Charging time and recordable time

The times shown in the tables below are for when the temperature is 25 °C (77 °F) and the humidity is 60%. If the temperature is higher or lower than 25 °C (77 °F), the charging time will become longer.

■ Charging time

Battery model number	Voltage/capacity	Charging time
Supplied battery/ VW-VBJ10 (optional)	3.6 V/1000 mAh	2 h 10 min

- The charging time shown in the table are approximations.
 "2 h 10 min" indicates 2 hour 10 minutes.

The actual recordable time refers to the recordable time when repeatedly starting/ stopping recording, turning the unit on/off, pressing the zoom button, etc.

Battery model number	Voltage/ capacity	Maximum Actual recordable time time	
Supplied battery/ VW-VBJ10 (optional)	3.6 V/ 1000 mAh	1 h 10 min	40 min

- The recordable time shown in the table are approximations.
- "1 h 10 min" indicates 1 hour 10 minutes.

Approximate recording times of motion pictures per SD card made by Panasonic

	Recording mode		
	XP	SP	LP
Capacity	(High quality)	(Normal)	(Long play)
256 MB	3 min	6 min	12 min
512 MB	6 min	12 min	25 min
1 GB	12 min	25 min	50 min
2 GB (supplied)	25 min	50 min	1 h 40 min
4 GB	50 min	1 h 40 min	3 h 20 min
	Image quality	←	Recording time

- The recordable time shown in the table are approximations.
 This unit records in VBR. VBR is an abbreviation for Variable Bit Rate. VBR recording automatically varies the bit rate (amount of data in a fixed time) depending on the subject being recorded. This means if a subject with sharp movements is recorded, the recording time is reduced.

Number of recordable pictures on an SD card

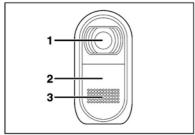
Picture size	(640×480)		
Picture quality	ıi.	-±-	
8 MB	37	75	
16 MB	92	185	
32 MB	200	410	
64 MB	430	850	
128 MB	820	1640	
256 MB	1710	3410	
512 MB	3390	6780	
1 GB	6790	13580	
2 GB	13820	27640	
4 GB	27150	54290	

- The number of recordable pictures depends on whether [===] and [_==] are used
- together and on the subject being recorded.

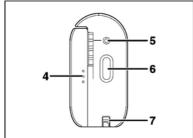
 The numbers shown in the table are approximations.

5 Location of Controls and Components

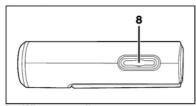
Parts identification and handling



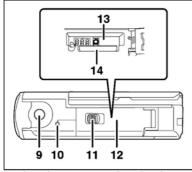
- 1 Lens
- 2 White balance sensor
- 3 Microphone (built-in, stereo)



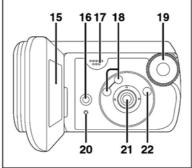
- 4 LCD monitor open part
- 5 Status indicator
- 6 Record button
- 7 Strap fixture



8 When recording: Zoom button [W/T] When playing back: Volume button [-VOL+]



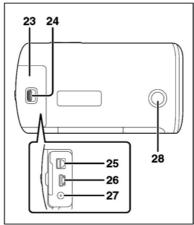
- 9 Attachment screw for tripod adaptor
- 10 Card access lamp [ACCESS]
- 11 Card/battery door lock [LOCK ◀► OPEN]
- 12 Card/battery door
- 13 Battery slot [BATT]
- 14 Card slot [SD CARD]



15 LCD monitor

Due to limitations in LCD production technology, there may be some tiny bright or dark spots on the LCD monitor screen. However, this is not a malfunction and does not afrot the recorded picture.

- 16 Delete button [亩]
- 17 Speaker
- 18 Mode select buttons [AUTO]/ [MANUAL AF/MF]
- 19 Mode dial
- 20 Reset button [RESET]
- 21 Cursor button
- 22 Menu button [MENU]



- 23 Terminal cover
- 24 Terminal cover lock [LOCK ◀► OPEN]
- 25 Audio-video output terminal [A/V]
- 26 USB terminal [1/2]
- 27 DC input terminal [DC IN 4.8V]
- 28 Sub record button
 - This button makes it easier to record from a non-standard or lower position, for example at waist level.

Selecting a mode

Selecting a mode (Turning the unit on/off)

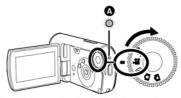
Rotate the mode dial to video recording, video playback, picture recording, picture playback or power OFF.

Rotate the mode dial slowly but surely.

How to turn on the power

Set the mode dial to ♣ , ▶, ♠ or ▶.

 Align the desired symbol to the position shown in the illustration.

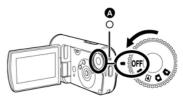


The status indicator (a) lights and the power turns on.

 When the unit is turned on for the first time, a message asking you to set the date and time will appear. Select [YES] and set the date and time.

How to turn off the power

Set the mode dial to OFF.

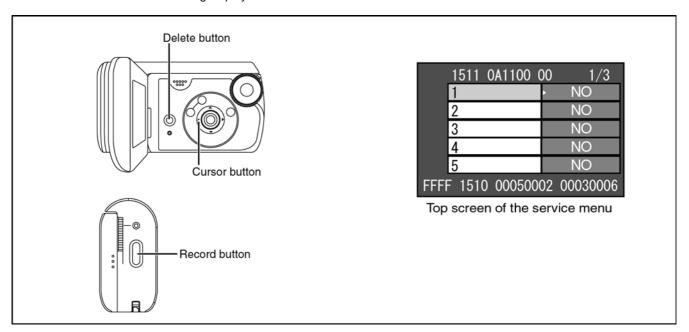


The status indicator **a** goes off when the power turns off.

- Video recording mode
 Use this to record motion pictures.
- Video playback mode
 Use this to play back motion pictures.
- Picture recording mode
 Use this to record still pictures.
- Picture playback mode
 Use this to play back still pictures.
- **OFF** The power turns off.
- Do not forcefully rotate the dial.

6 Service Mode

- 1. Indication method of the service menu
 - Set the mode dial "Video playback" mode.
- 2. While keep pressing the "[LEFT<] of cursor" button, "record" button and "delete" button for more than 3 seconds until the top screen of the Service Menu being displayed.



Service mode menu

Screen display	Contents	Function	
2	Factory settings	Function to throw a product up in a factory shipment state	
4	Lock search history indication	Display an error cord for three histories saved in EEPROM	

NOTE:

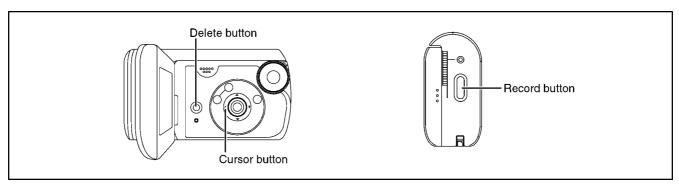
Do not using service mode except [2], [4] of Service Menu.

3. End method of the top screen of the service menu

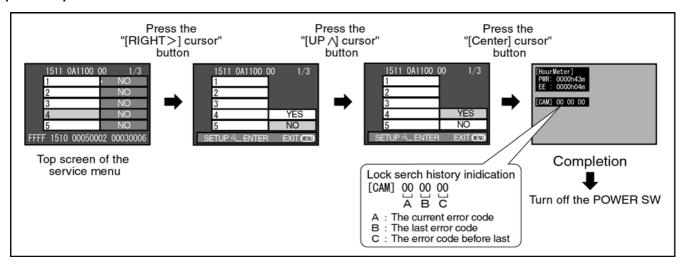
Top screen of the service menu is finished by POWER OFF.

6.1. Lock Search History Indication

- 1. Set the mode dial "Video playback" mode.
- 2. While keep pressing the "[LEFT<] of cursor" button, "record" button and "delete" button for more than 3 seconds until the top screen of the Service Menu being displayed.
- 3. Select [4] Lock search history indication.



Operation specifications



Indication contents

- Lock search history indication
 Display the camera system error cord for three histories saved in EEPROM.
- The error cord contents which are displayed

Error code	Function
51	Focus control is abnormal
52	Zoom control is abnormal
53	OIS lens control is abnormal
33	Communication between camera to ARM is abnormal

Lock search history indication is finished by POWER OFF.

7 Service Fixture & Tools

7.1. When Replacing the Main PCB

After replacing the MAIN PCB, be sure to achieve adjustment.

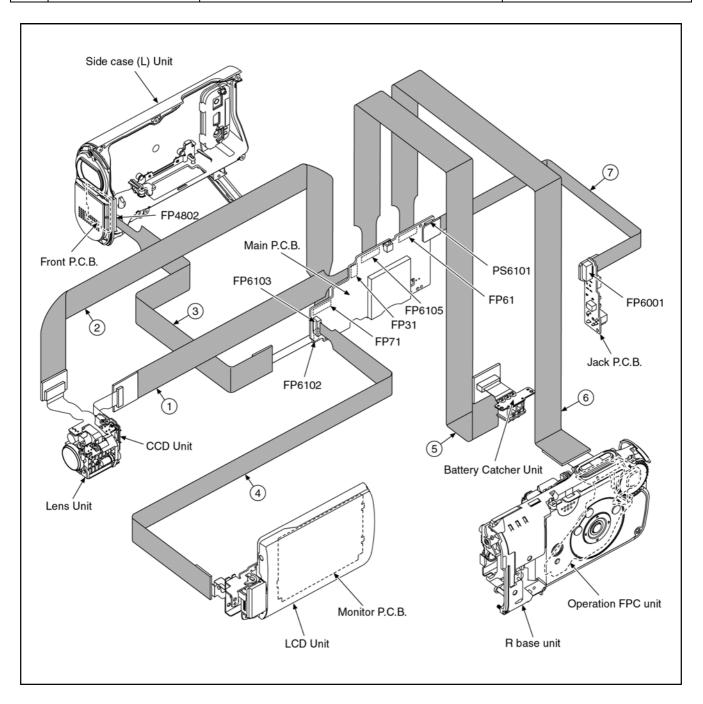
The adjustment instruction is available at "software download" on the "Support Information from NWBG/VDBG-PAVC" web-site in "TSN system", together with Maintenance software.

7.2. Service Position

This Service Position is used for checking and replacing parts. Use the following Extension cables for servicing.

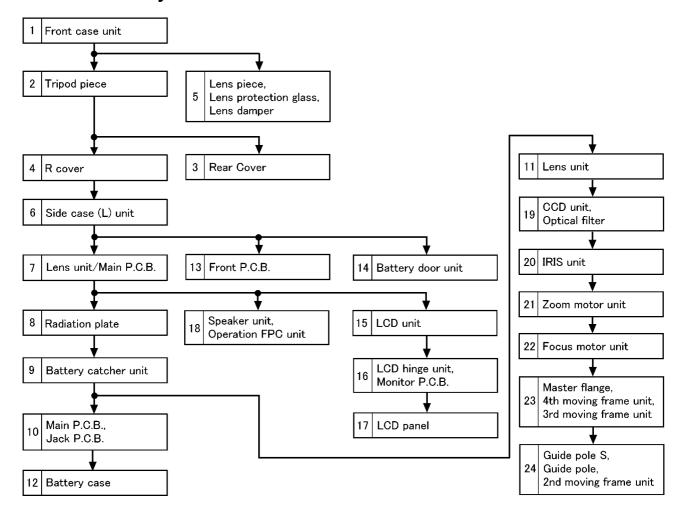
Table S1 Extension Cable List

No.	Parts No.	Connection	Form
1	VFK1364	FP31 (MAIN) - CCD UNIT	14PIN 0.5 FFC
2	VFK1461	FP71 (MAIN) - LENS UNIT	20PIN 0.5 FFC
3	VFK1388	FP6102 (MAIN) - FP4802 (FRONT)	12PIN 0.5 FFC
4	VFK1716	FP6103 (MAIN) - FP8101 (MONITOR)	25PIN 0.3 FFC
5	VFK1461	FP6105 (MAIN) - BATTERY CHATCER UNIT	20PIN 0.5 FFC
6	VFK1461	FP61 (MAIN) - OPERATION FPC UNIT	20PIN 0.5 FFC
7	VFK1870	PS6101 (MAIN) - FP6001 (JACK)	20PIN B to B

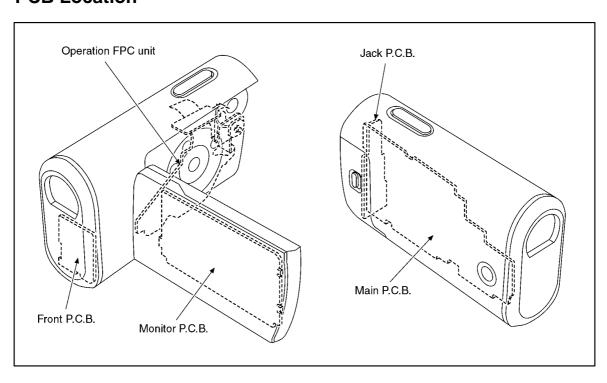


8 Disassembly and Assembly Instructions

8.1. Disassembly Flow Chart



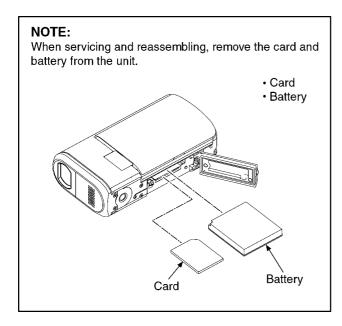
8.2. PCB Location



8.3. Disassembly Procedure

No.	Item	Fig	Removal
1	Front case unit	Fig. D1	2 Screws (A)
			Front case unit
2	Tripod piece	Fig. D2	2 Screws (B)
	F		Access panel light
			Tripod O ring
			Panel light O ring
			Tripod piece
3	Rear cover	Fig. D3	2 Screws (C)
3	Real Cover	rig. D3	Rear cover
4	R cover	Fig. D4	
4	R cover	Fig. D4	2 Screws (D)
		Cir. DC	4 Locking tabs
_		Fig. D5	R cover
5	Lens piece,	Fig. D6	3 Screws (E)
	Lens protection glass		Lens piece
	Lens damper		Lens protection glass
			Lens damper
6	Side case (L) unit	Fig. D7	6 Screws (F)
			Case O ring
			FP4802(Flex)
			Side case (L) unit
		Fig. D8	NOTE: (When Installing)
7	Lens unit/Main P.C.B.	Fig. D9	4 Screws (G)
			FP61(Flex)
			P4001(Connector)
		Fig. D10	FP6103(Flex)
		1 1g. D 10	Lens unit/Main P.C.B.
8	Radiation plate	Fig. D11	4 Screws (H)
	radiation plate	i ig. Dii	Radiation plate
9	Pottory actobor unit	Fig. D12	
9	Battery catcher unit	Fig. D12	2 Screws (I) FP6105(Flex)
40	Main DOD	F' - D40	Battery catcher unit
10	Main P.C.B., Jack P.C.B.	Fig. D13	1 Screw (J)
	Jack P.C.B.		FP31(Flex)
			FP71(Flex)
			FP6105(Flex)
			2 Locking tabs
		Fig. D14	FP6001(Connector)
			Main P.C.B.
			Jack P.C.B.
11	Lens unit	Fig. D15	FP31(Flex)
			FP71(Flex)
			1 Screw (K)
			1 Locking tab
			Lens unit
12	Battery case	Fig. D16	1 Screw (L)
			2 Locking tabs
			Battery case
13	Front P.C.B.	Fig. D17	1 Screw (M)
			2 Ribs
			1 Hook
			FP4801(Flex)
			Front P.C.B.
14	Battery door unit	Fig. D18	Battery door shaft
		9. 5 10	Battery door spring
			Battery door unit
15	I CD unit	Eig D40	
15	LCD unit	Fig. D19	R base rubber
		F' Doc	1 Screw (N)
		Fig. D20	3 Screws (O)
			GND O ring
	i .	1	LCD unit

No.	Item	Fig	Removal
16	LCD hinge unit,	Fig. D21	4 Screws (P)
10	Monitor P.C.B.	rig. DZ i	Packing angle
	Worldon L.C.B.		
			4 screw O rings
		F: D00	2 Screws (Q)
		Fig. D22	3 Locking tabs
			LCD case top
			FP8101(Flex)
			3 Locking tabs
			FP8102(Flex)
			LCD hinge unit
			Monitor P.C.B.
		Fig. D23	NOTE: (When Installing)
17	LCD panel	Fig. D24	Reflection sheet
			Lighting plate
			Diffusion sheet
			Prism sheet B
			Prism sheet A
			Light guide holder
			LCD panel
			LCD shield case
			LCD case bottom unit
18	Speaker unit,	Fig. D25	9 Screws (R)
	Operation FPC unit		Operation angle
			Earth angle
			Speaker unit
		Fig. D26	SS operation angle
			Zoom operation angle
			SS button rubber unit
			Zoom OP rubber unit
			Operation FPC unit
		Fig. D27	NOTE: (When Installing)
19	CCD unit,	Fig. D28	2 Screws (S)
	Optical filter	3	CCD cushion rubber
	'		CCD unit
			Optical filter
20	IRIS unit	Fig. D29	Solder (8 points)
		g. 220	3 Screws (T)
			1 Rib
			IRIS unit
		Fig. D30	NOTE: (When Installing)
21	Zoom motor unit	Fig. D31	2 Screws (U)
 		. ig. 201	Zoom motor unit
22	Focus motor unit	Fig. D32	2 Screws (V)
1	. codo motor unit	. ig. 202	Focus motor unit
23	Master flange,	Fig. D33	3 Screws (W)
ادّا	4th moving frame unit,	. ig. 200	Master flange
	3rd moving frame unit		4th moving frame unit
	3 3 3		3rd moving frame unit
24	Guide pole S,	Fig. D34	Guide pole S
24	Guide pole 3, Guide pole,	i ig. D34	Guide pole S
	2nd moving frame unit		
1	Zina moving mame unit		2nd moving frame unit



8.3.1. Removal of the Front case unit

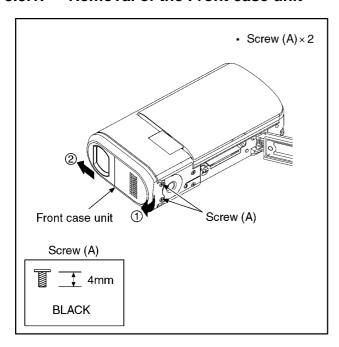


Fig. D1

8.3.2. Removal of the Tripod piece

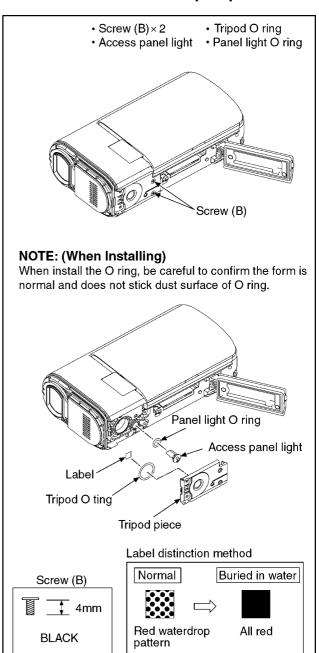


Fig. D2

8.3.3. Removal of the Rear cover

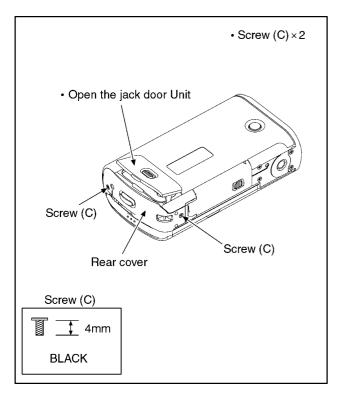


Fig. D3

8.3.4. Removal of the R cover

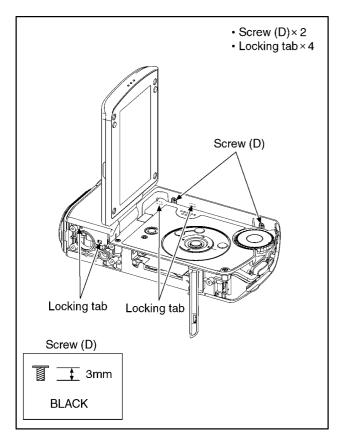


Fig. D4

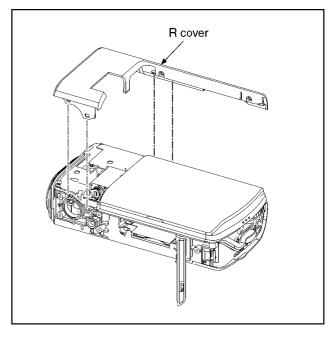


Fig. D5

8.3.5. Removal of the Lens piece, Lens protection glass and Lens damper

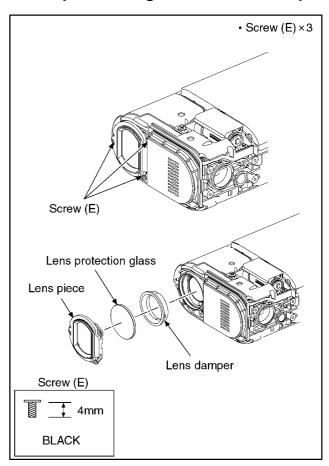


Fig. D6

8.3.6. Removal of the Side case (L) unit

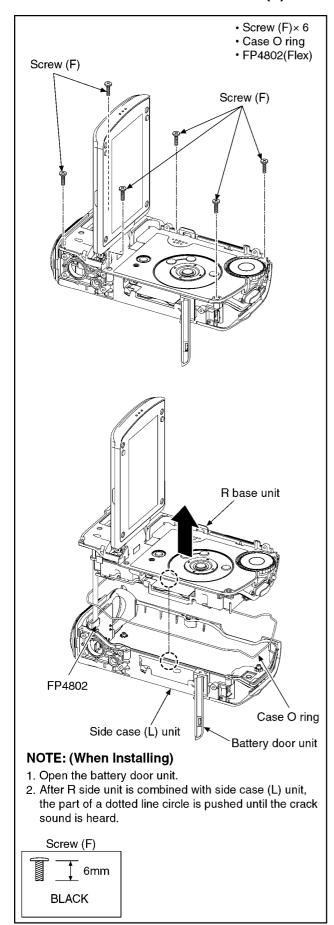


Fig. D7

NOTE: (When Installing)

- 1. Be careful to confirm the form is normal and does not stick dust surface of case O ring.
- Case O ring is put from start position in groove.
 At this time, the hard pressure is not given.
 To suppress it lightly, it puts in groove.
 It is noted that case O ring does not float in the

difference of R side unit.

The length of O ring is adjusted in a straight line part in the better (R because it).

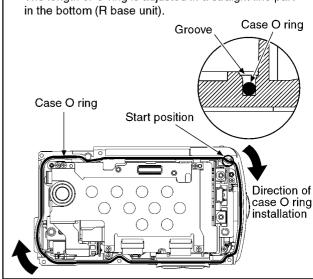


Fig. D8

8.3.7. Removal of the Lens unit/ Main P.C.B

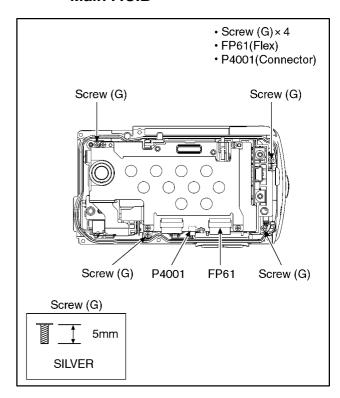


Fig. D9

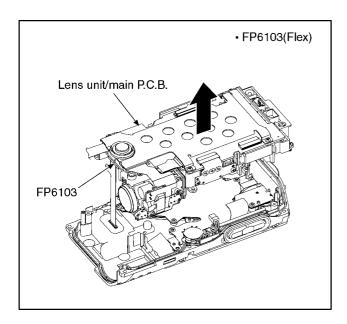


Fig. D10

8.3.8. Removal of the Radiation plate

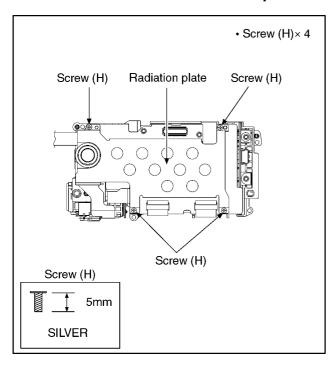


Fig. D11

8.3.9. Removal of the Battery catcher unit

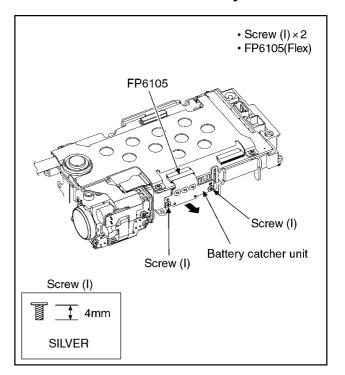


Fig. D12

8.3.10. Removal of the Main P.C.B. and Jack P.C.B.

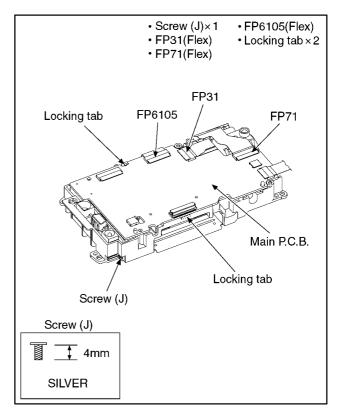


Fig. D13

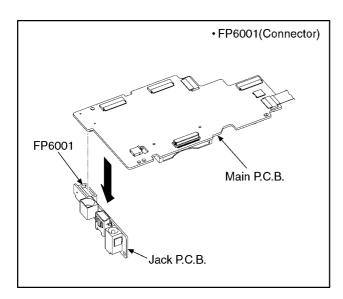


Fig. D14

8.3.11. Removal of the Lens unit

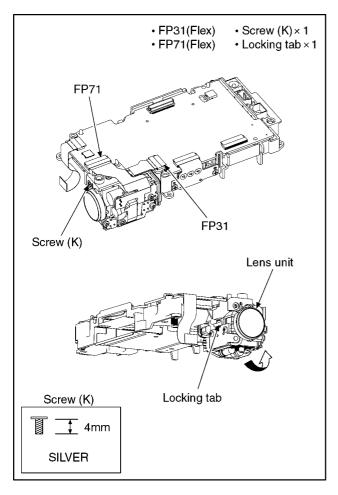


Fig. D15

8.3.12. Removal of the Battery case

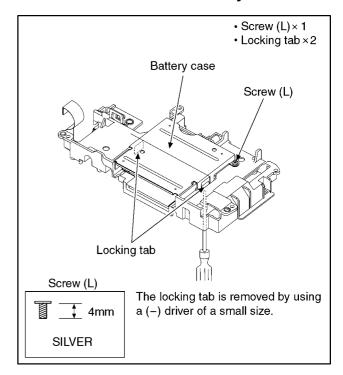


Fig. D16

8.3.13. Removal of the Front P.C.B.

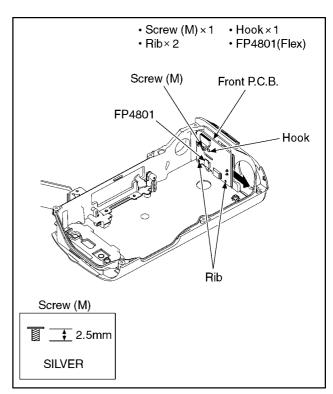


Fig. D17

8.3.14. Removal of the Battery door unit

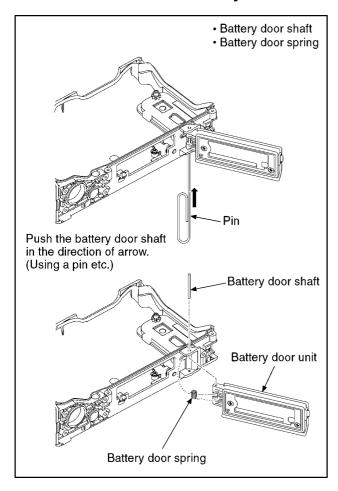


Fig. D18

8.3.15. Removal of the LCD unit

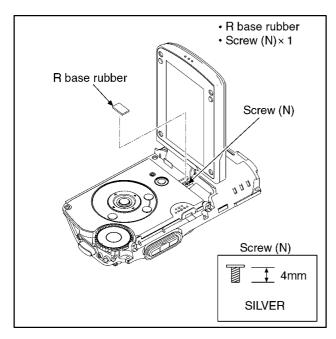


Fig. D19

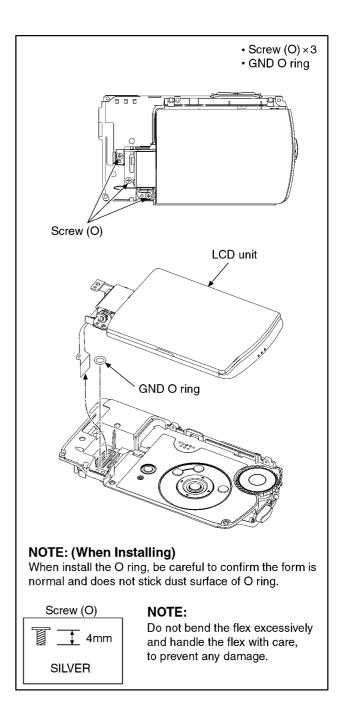


Fig. D20

8.3.16. Removal of the LCD hinge unit and Monitor P.C.B.

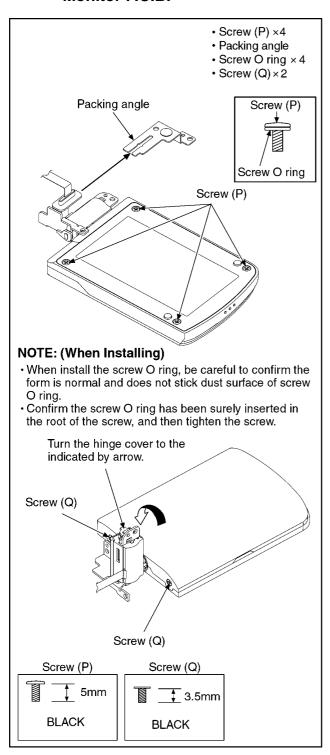


Fig. D21

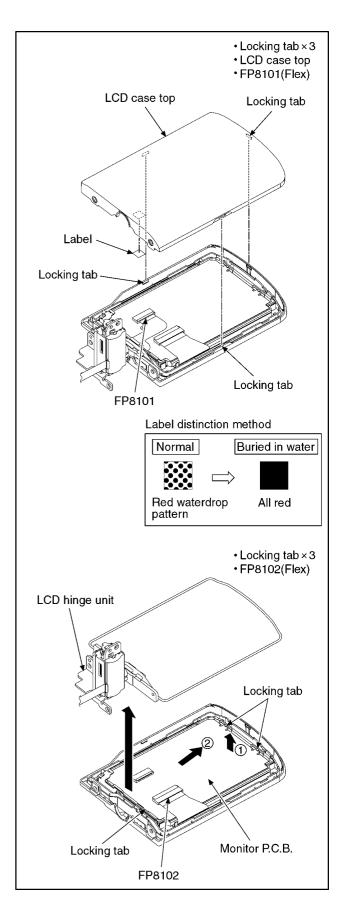


Fig. D22

NOTE: (When Installing) 1. When install the case O ring, groove it surely. (Be careful to confirm the form is normal and does not stick dust surface of case O ring.) 2. Confirm do not floatage in case O ring. Case O ring Case O ring

Fig. D23

8.3.17. Removal of the LCD panel

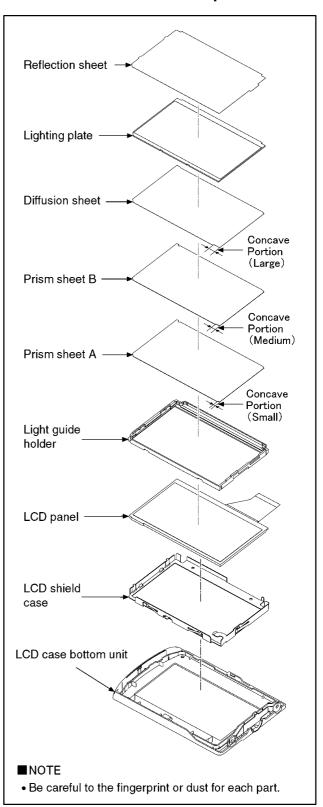


Fig. D24

8.3.18. Removal of the Speaker unit and Operation FPC unit

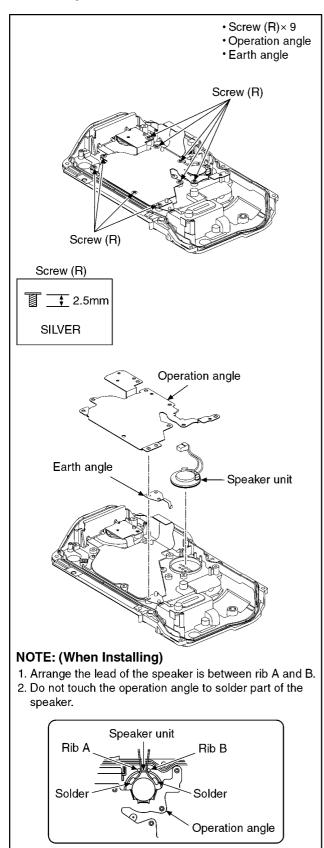


Fig. D25

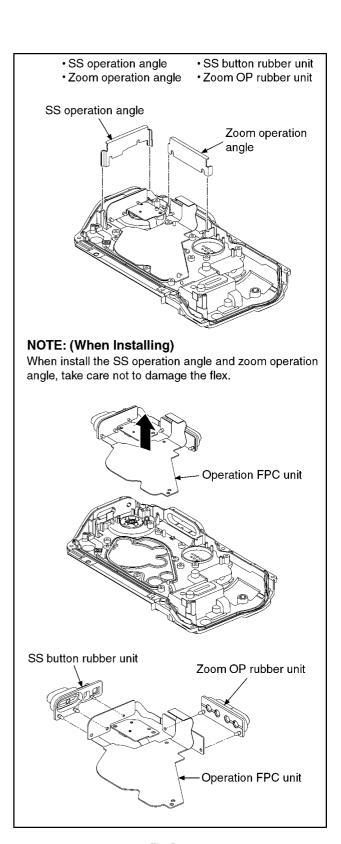


Fig. D26

NOTE: (When Installing) Align the "D"cut part of switch of mode dial and "D"cut part of mode dial knob, and then install them. Switch of mode dial "D"cut part "D"cut part Mode dial knob

Fig. D27

8.3.19. Removal of the CCD unit and Optical filter

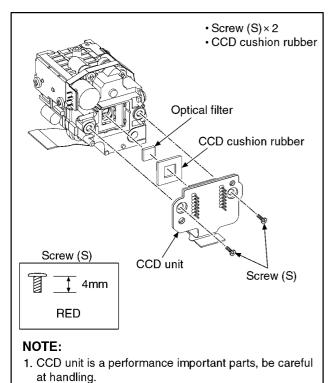


Fig. D28

2. Be careful not to damage the optical filter.

8.3.20. Removal of the IRIS unit

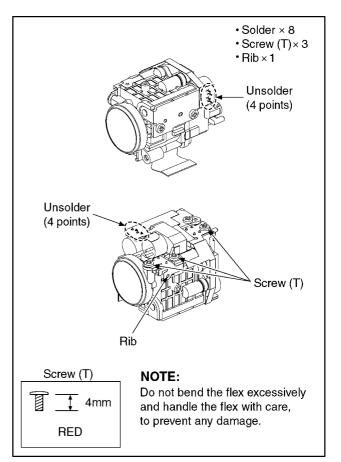


Fig. D29

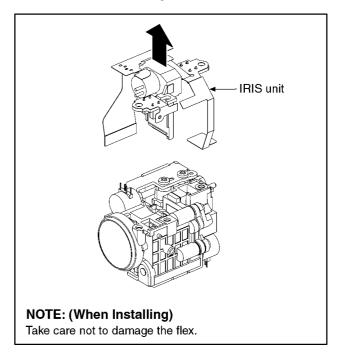
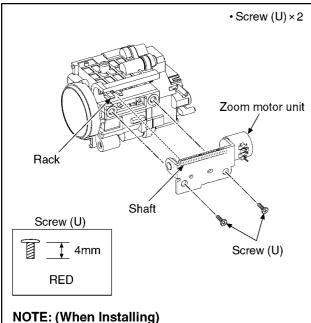


Fig. D30

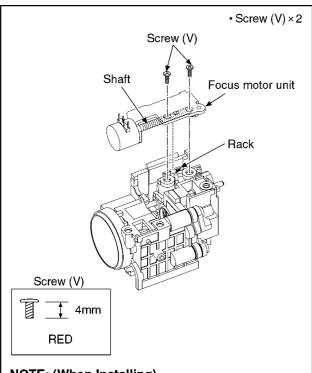
8.3.21. Removal of the Zoom motor unit



- · Match the shaft to the rack.
- · Air blow to the shaft of the zoom motor unit, and remove the dust.
- · Grease applly to the shaft of zoom motor unit.

Fig. D31

8.3.22. Removal of the Focus motor unit

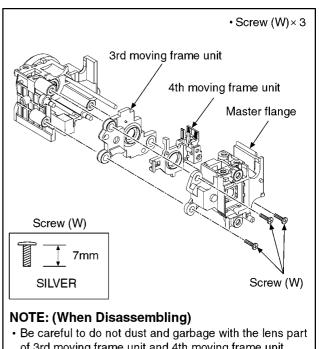


NOTE: (When Installing)

- · Match the shaft to the rack.
- · Air blow to the shaft of the focus motor unit, and remove the dust.
- · Grease applly to the shaft of focus motor unit.

Fig. D32

8.3.23. Removal of the Master flange, 4th moving frame unit and 3rd moving frame unit



- of 3rd moving frame unit and 4th moving frame unit.
- · Do not touch the surface of lens.

Fig. D33

Removal of the Guide pole S, Guide 8.3.24. pole and 2nd moving frame unit

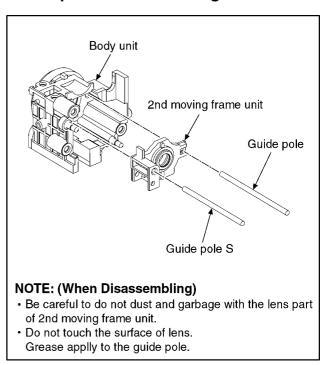


Fig. D34

9 Measurements and Adjustments

9.1. Electric Adjustment

- Adjustment method is different from a conventional SD video camera.
- An exclusive jig and PC (including software for adjustment "Tatsujin") are necessary for electric adjustment.
- A USB driver for service is necessary to communication with PC.
- Connection method of the main unit and an exclusive adjustment jig as follows

9.1.1. Adjustment Procedure

• Connect the main unit to PC with USB.

The adjustment instruction is available at "Software download" on the "Support Information from NWBG/VDBG-PAVC" web-site in "TSN System".

Figure of connection

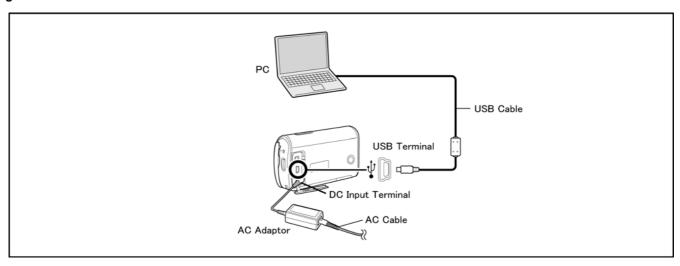
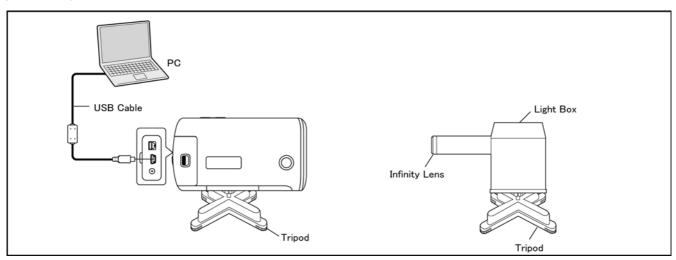


Figure of image when adjustment



Part Number of jig

• Only a necessary jig mentions it in setup of electric adjustment.

No.	Part Name	Part Number	Remarks
1	PC		
2	AC Adaptor		
3	AC Cable		
4	USB Cable		
5	Adjustment Software (Tatsujin)		

Adjustment Items
• Adjustment item as follows.

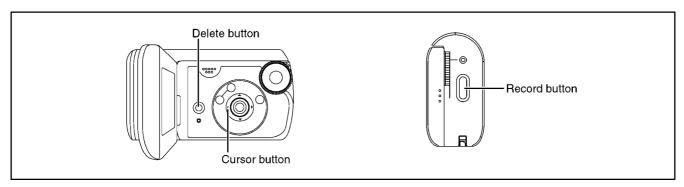
The adjustment instruction is available at "Software download" on the "Support Information from NWBG/VDBG-PAVC" web-site in "TSN System".

Ad	Replacement part	Main P.C.B.	IC6004(EEPROM)	Lens P.C.B.	Prism Unit	IRIS	4th lens frame move unit
	●Hall amplifire/PWM bias(Automatic)	0	0	0	0	0	
	● Hall amplifire adjustment	0	0	0	0	0	
Camera Part	●Zoom tracking adjustment(Automatic)	0	0	0	0	0	0
	●Address wound revision	0	0		0		
	●White balance adjustment	0	0		0		
Video Part	●Brightness level adjustment	0	0		0		

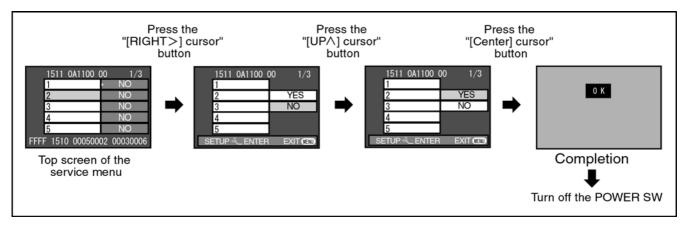
10 Factory Setting

10.1. HOW TO TURN ON THE FACTORY SETTINGS?

- 1. Set the mode dial "Video playback" mode.
- 2. While keep pressing the "[LEFT<] of cursor" button, "record" button and "delete" button for more than 3 seconds until the top screen of the Service Menu being displayed.



- 3. Under the condition of the Item No."2" is yellow high lighted, press the "[RIGHT>] of cursor" button.
- 4. By pressing the "[UP ^] of cursor" button, then press the "[center] of cursor" button.
- 5. After few seconds "OK" is displayed on LCD monitor. Turn off the power as a completion of the "FACTORY SETTINGS".



10.2. WHAT IS THE FACTORY SETTINGS?

The factory settings clean up and/or refresh the following settings.

- 1. The OSD MENU setting data.
- 2. Deletion only for all scene files in a card and format of the MPEG2 file system area.
- 3. Reset the folder number and file number of still pictures. (Setting the folder number is 100, and file number is 0.)
- 4. Clear the mechanism lock information.
- 5. Clear the service mode information contents.

The setting position of factory settings:

Name	Setting position
Mode select switch	AUTO
Mode dial	OFF

Service Manual

Diagrams and Replacement Parts List

SD Video Camera

Model No.

SDR-S10P	SDR-S10EF
SDR-S10PC	SDR-S10EG
SDR-S10PL	SDR-S10EP
SDR-S10E	SDR-S10GC
SDR-S10EB	SDR-S10GN
SDR-S10EE	SDR-S18GK

Vol. 1 Colour (K).....Black Type

S1. About Indication of The Schematic Diagram

S1.1. Important Safety Notice

COMPONENTS IDENTIFIED WITH THE MARK A HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY THE SAME TYPE.

- 1.Although reference number of the parts is indicated on the P.C.B. drawing and/or schematic diagrams, it is NOT mounted on the P.C.B. when it is displayed with "\$" mark.
- 2.It is only the "Test Round" and no terminal (Pin) is available on the P.C.B. when the TP (Test Point) indicated as " mark.
- 3. The voltage being indicated on the schematic diagram is measured in "Standard-Playback" mode when there is no specify mode is mentioned.
- 4. Although the voltage and waveform available on here is measured with standard frame, it may be differ from actual measurement due to modification of circuit and so on.
- 5. The voltage being indicated here may be include observational-error (deviation) due to internal-resistance and/or reactance of equipment. Therefore, handle the value indicated on here as reference.
- 6.Use the parts number indicated on the Replacement Parts List.
- 7.Indication on Schematic diagrams:

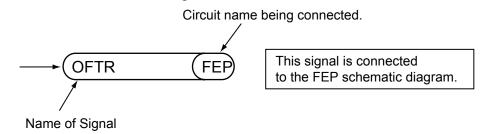


Table of contents

S1. About Indication of The Schematic Diagram	S-1
S1.1. Important Safety Notice	S-1
S2. Voltage Chart	
S2.1. Monitor P.C.B	S-2
S2.2. Front P.C.B.	S-2
S3. Block Diagram	S-3
S3.1. Overall Block Diagram	
S4. Schematic Diagram	S-4
S4.1. Interconnection Diagram	
S4.2. Jack Schematic Diagram	
S4.3. Monitor Schematic Diagram	
S4.4. Front Schematic Diagram	
S4.5. CCD FPC Schematic Diagram	
S5. Print Circuit Board	S-8
S5.1. Jack P.C.B.	
00.1.000.1.0.5	

S5.2. Monitor P.C.B.	S-9
S5.2.1. Monitor P.C.B. (Component Side)	S-9
S5.2.2. Monitor P.C.B. (Foil Side)	S-10
S5.3. Front P.C.B.	S-11
S5.4. CCD FPC P.C.B.	S-12
S6. Replacement Parts List	S-13
S7. Exploded View	S-19
S7.1. Frame and Casing Section	S-19
S7.2. LCD Section	S-20
S7.3. Camera Lens Section	S-21
S7.4. Packing Parts and Accessories Section	S-22

S2. Voltage Chart

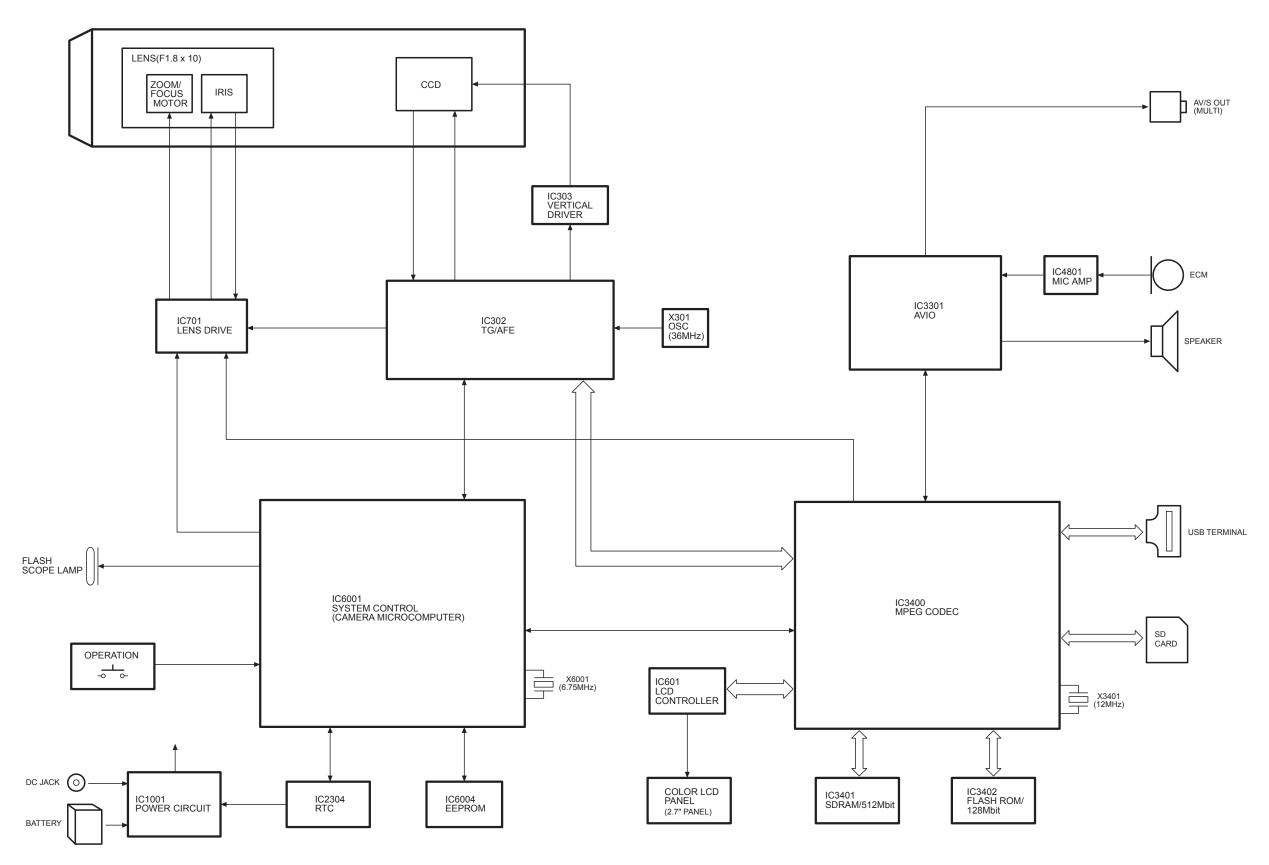
Note) Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

S2.1. Monitor P.C.B. S2.2. Front P.C.B.

REF No.	PIN No.	POWER ON	İ	REF No.	PIN No.	POWER
Q8101	E E	0.7		IC4801	1 1	2.9
Q8101	С	1.7		IC4801	2	2.9
Q8101	В	1.5		IC4801	3	2.9
Q8102 Q8102	E C	0.7 1.7		IC4801 IC4801	4 5	0 2.9
Q8102	В	1.5		IC4801	6	2.9
Q8104	E	0.7		IC4801	7	2.9
Q8104	С	1.7		IC4801	8	5.5 4.9
Q8104 Q8105	B E	1.5 0.7		Q4801 Q4801	E C	5.5
Q8105	C	1.7		Q4801	В	5.8
Q8105	В	1.5		Q6501	E	3.2
Q8107 Q8107	E C	1.7 0		Q6501 Q6501	C B	3.5 0.6
Q8107 Q8107	В	1		Q6502	E	2.5
Q8108	E	0.7		Q6502	С	0
Q8108	С	1.7		Q6502	В	3.2
Q8108 Q8112	B E	1.5 1.5				
Q8112	C	0				
Q8112	В	0.7				
Q8113	E	0				
Q8113 Q8113	C B	-6.6 0.1				
QOTTO		0.1				

S3. Block Diagram

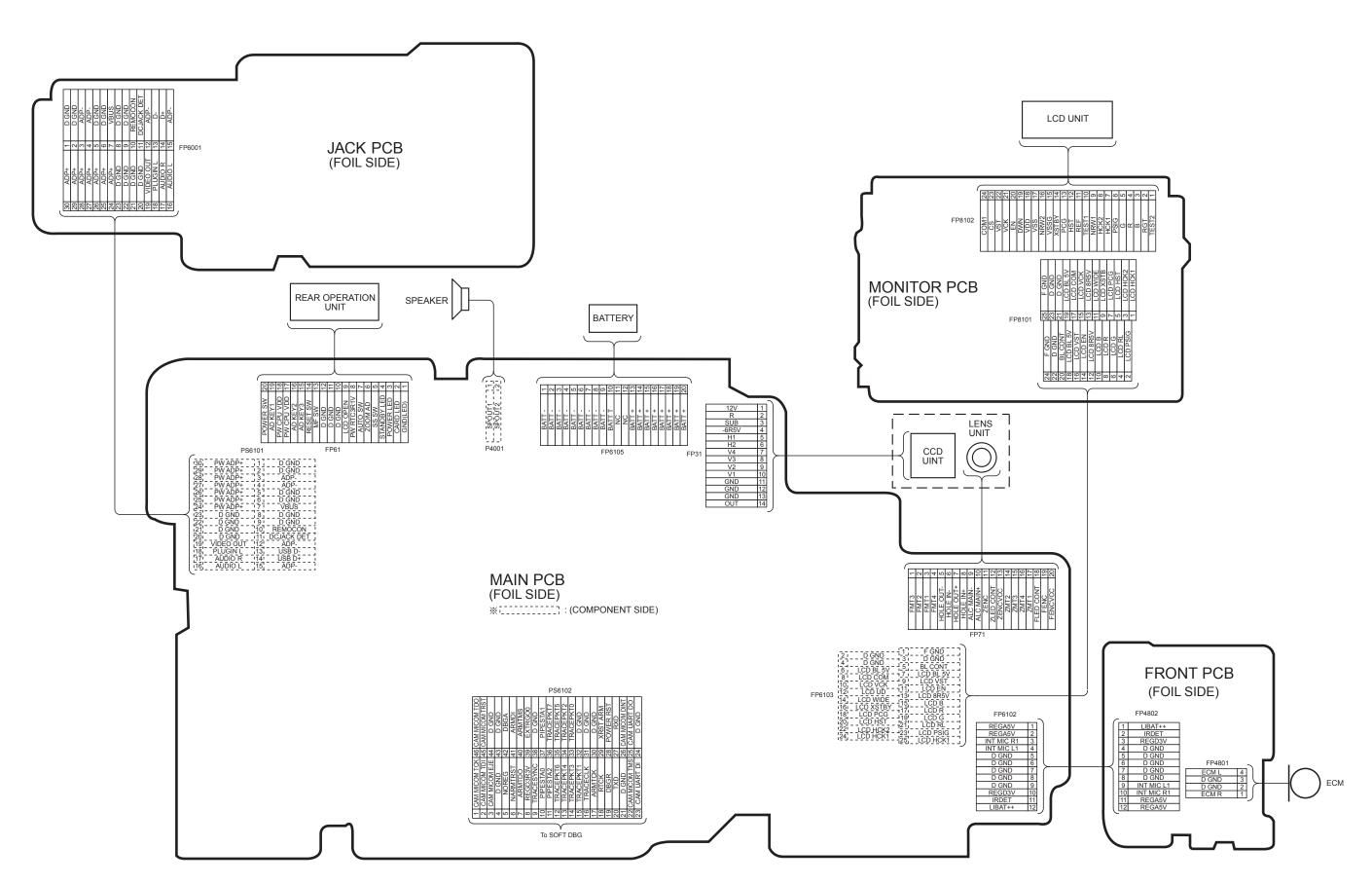
S3.1. Overall Block Diagram

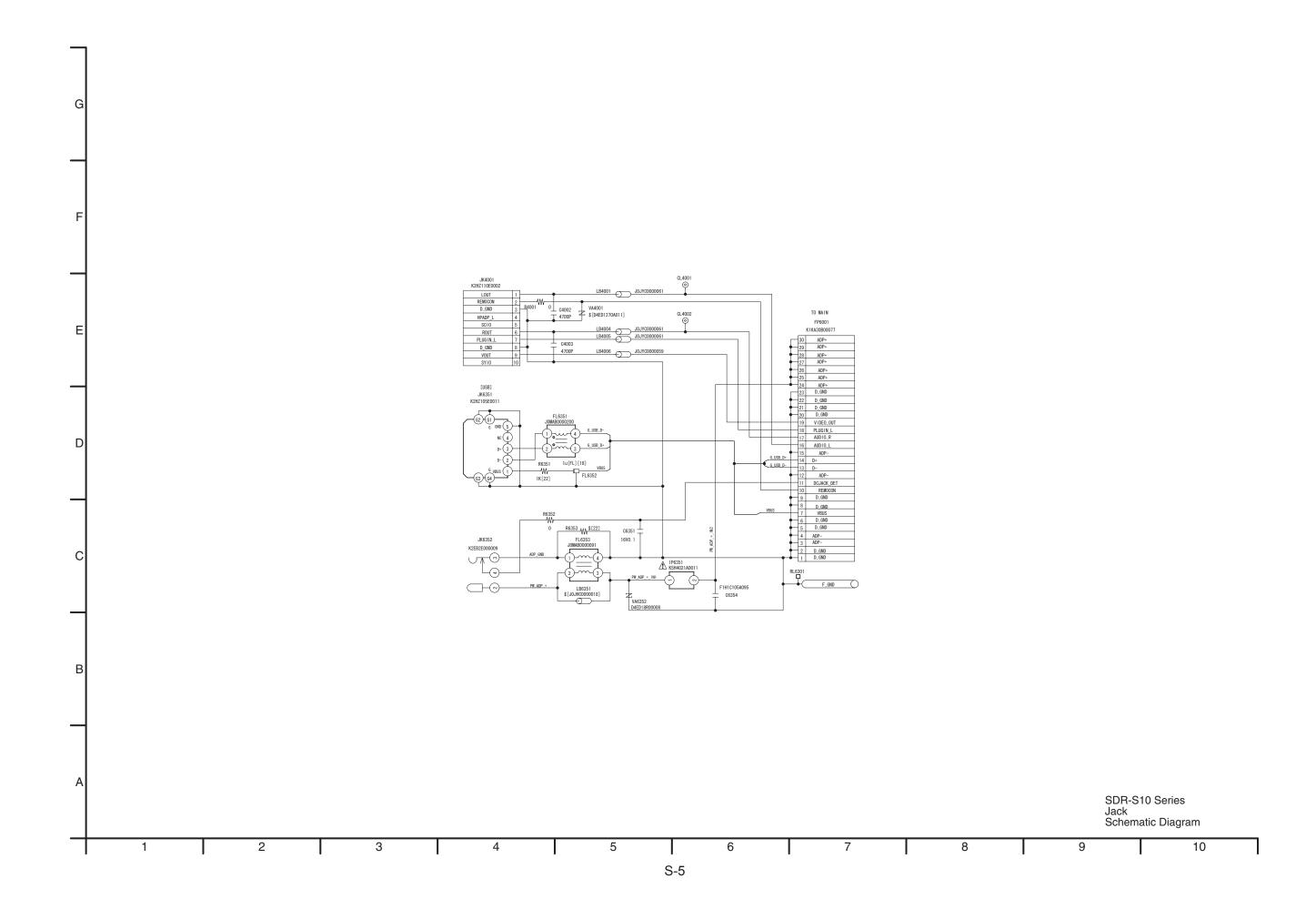


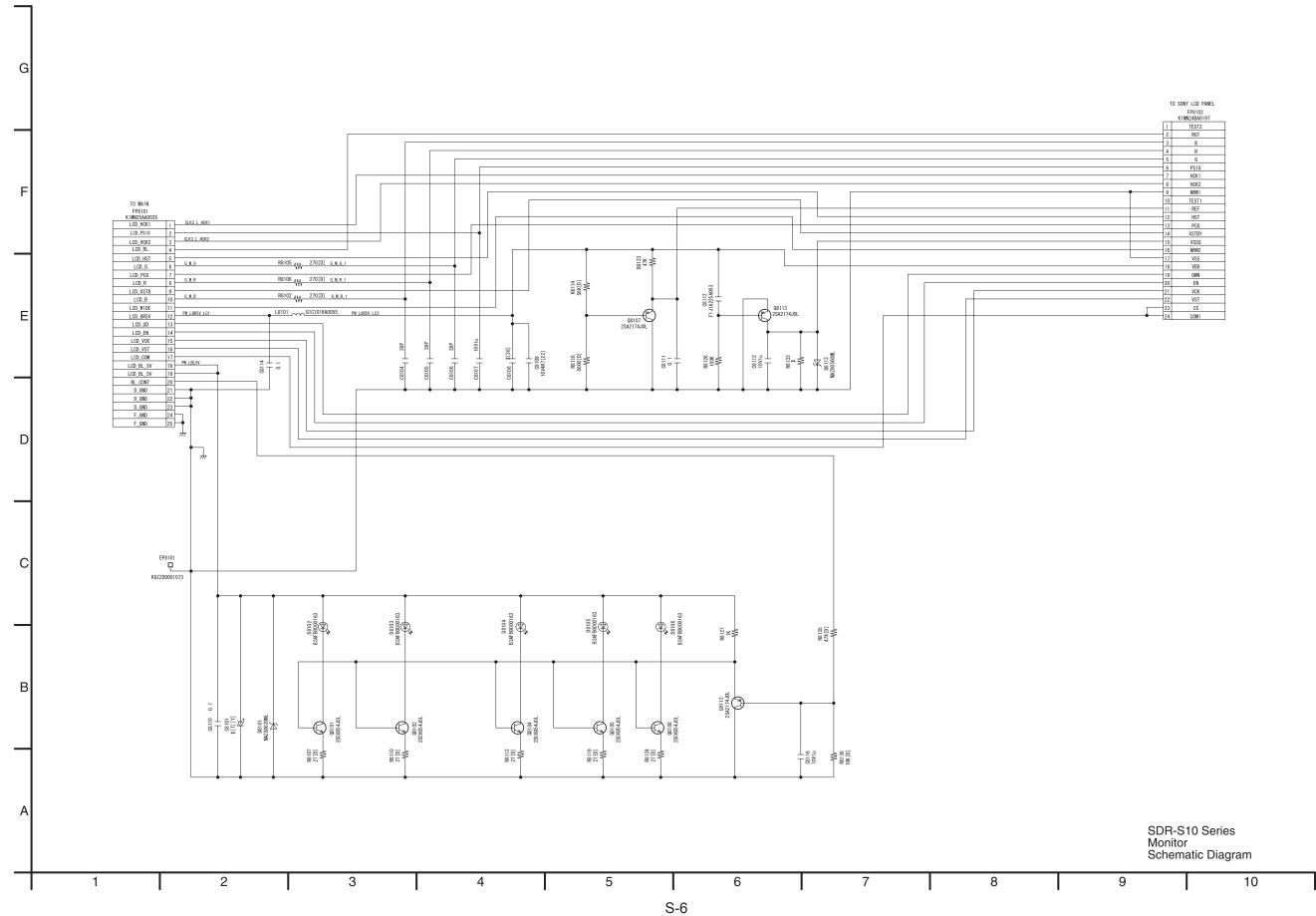
SDR-S10/S18 OVERALL BLOCK DIAGRAM

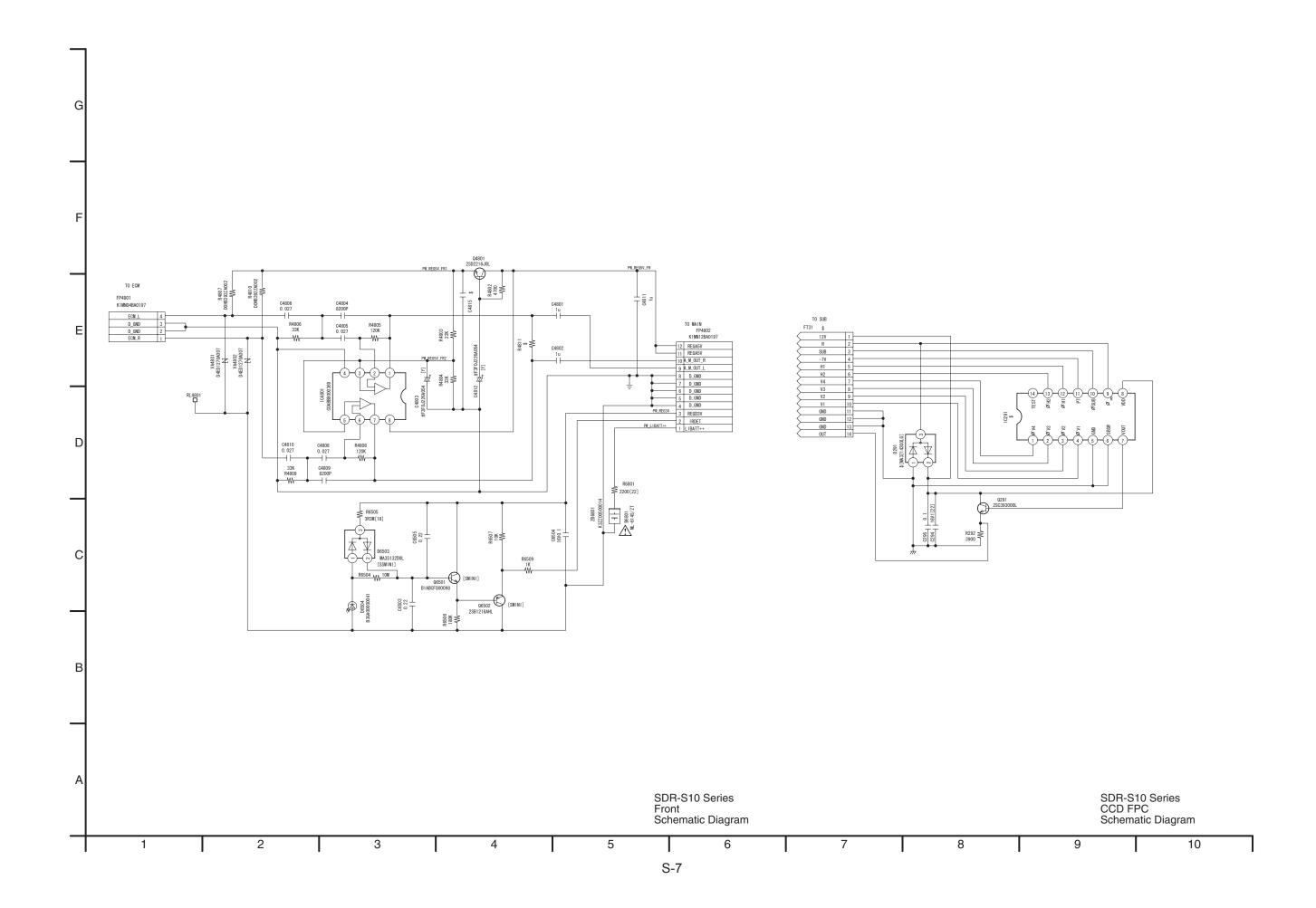
S4. Schematic Diagram

S4.1. Interconnection Diagram



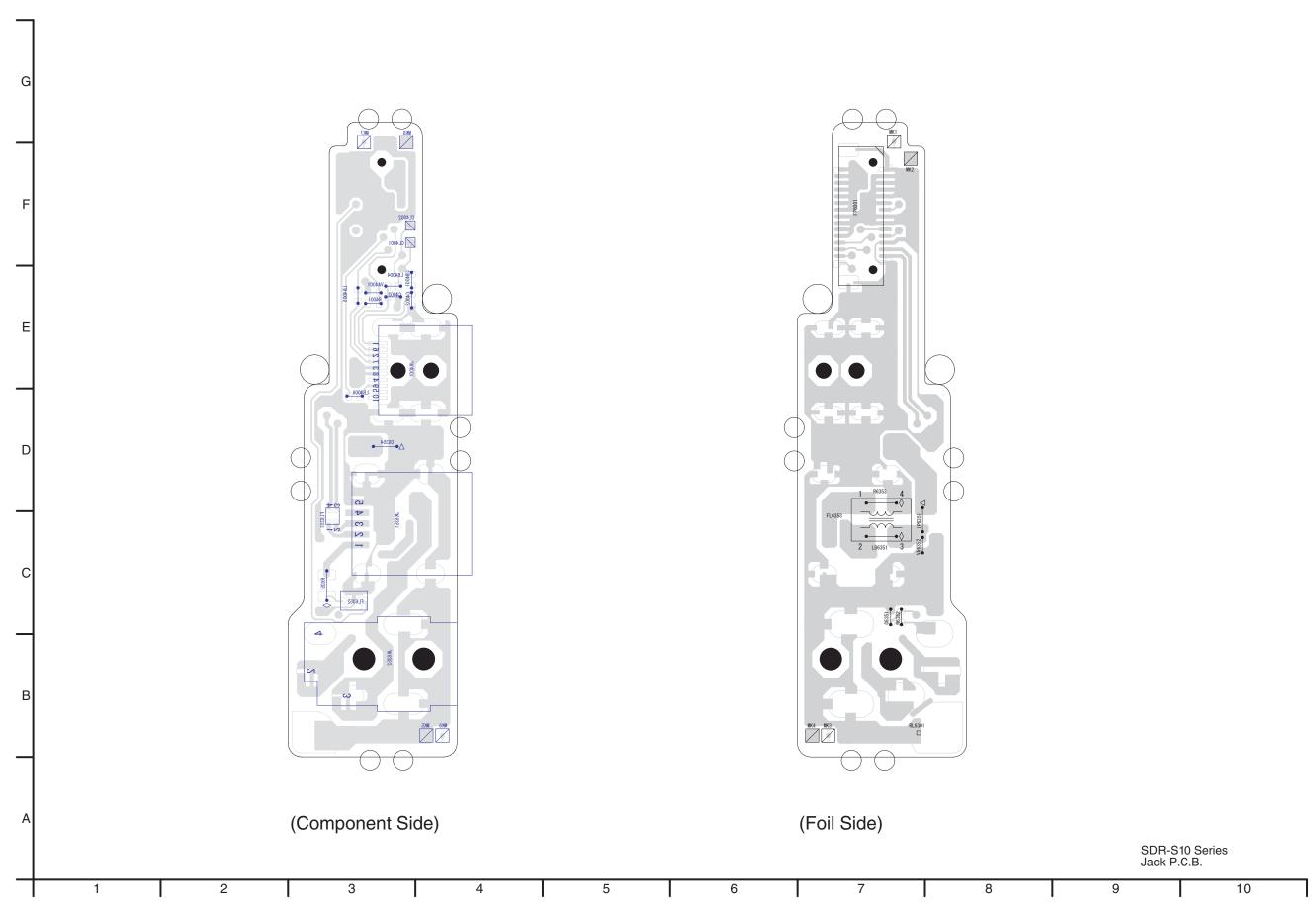




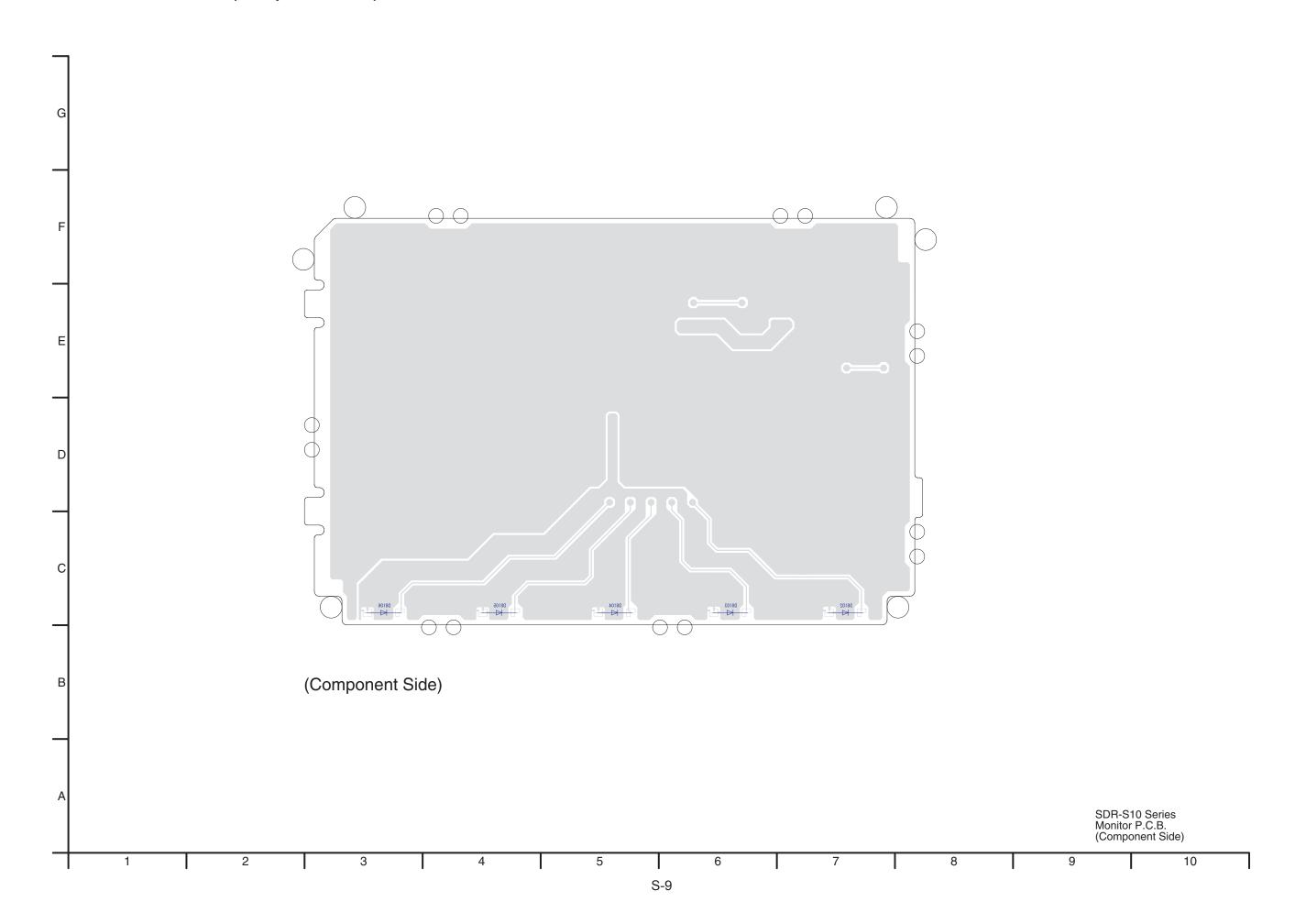


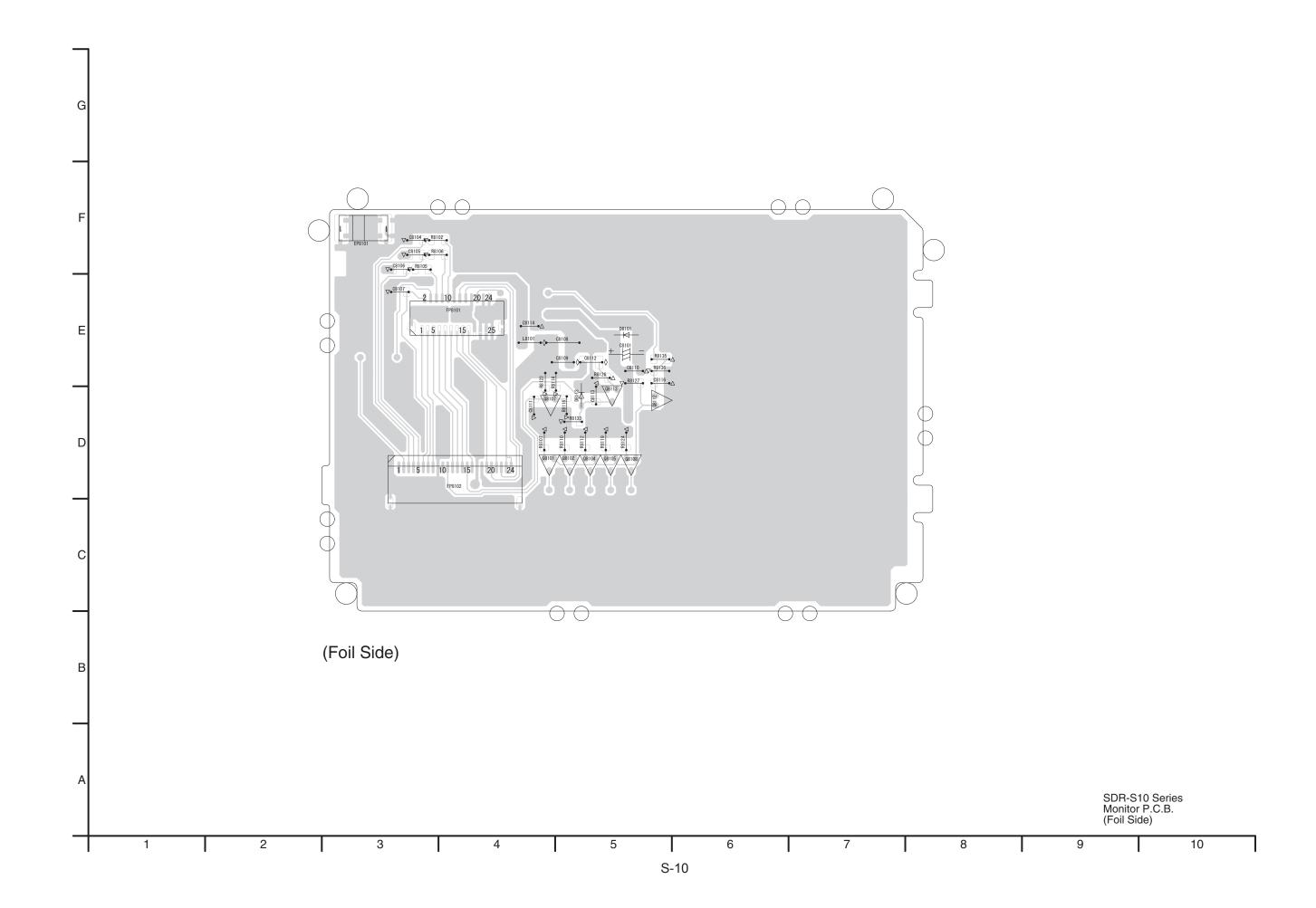
S5. Print Circuit Board

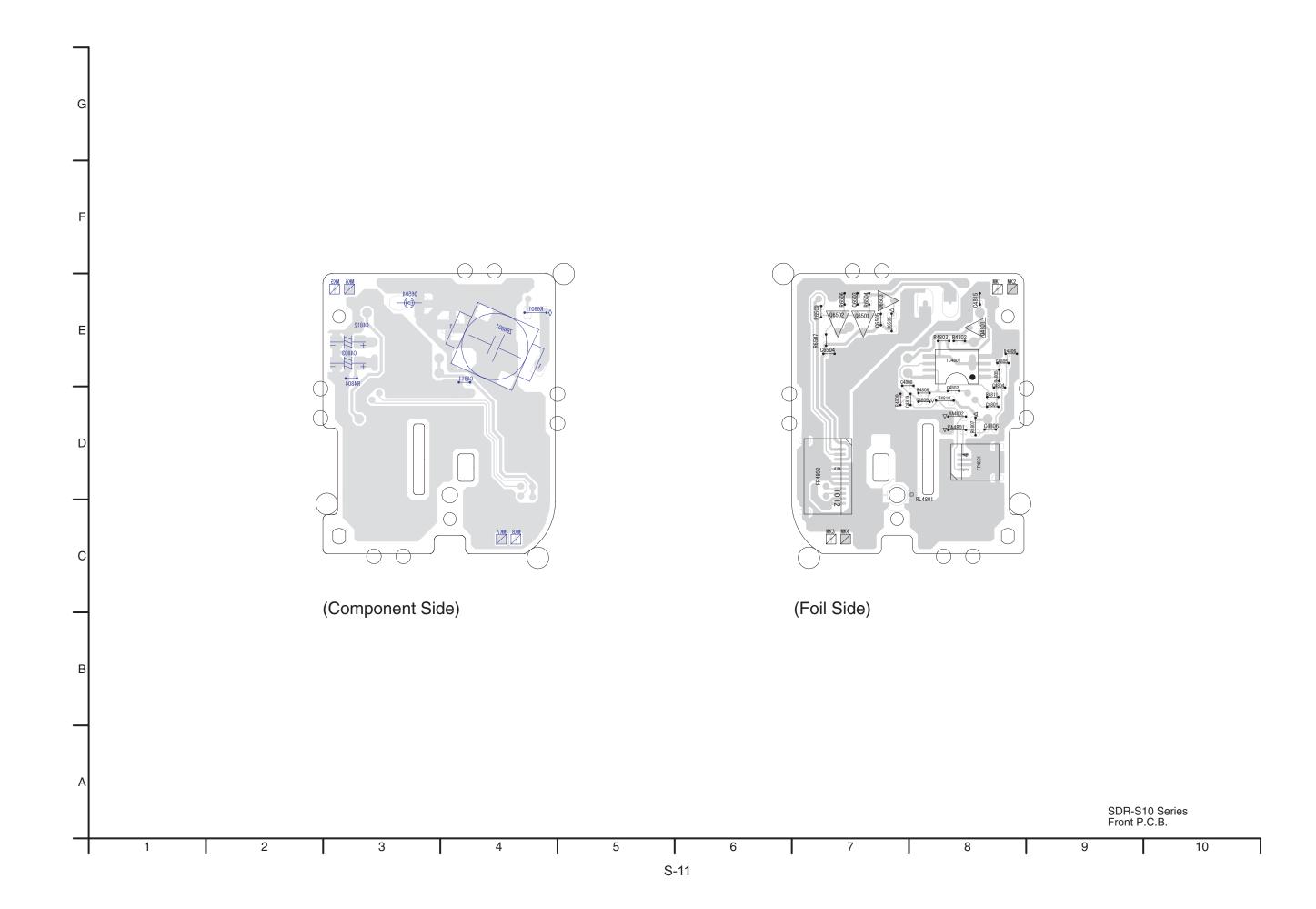
S5.1. Jack P.C.B.

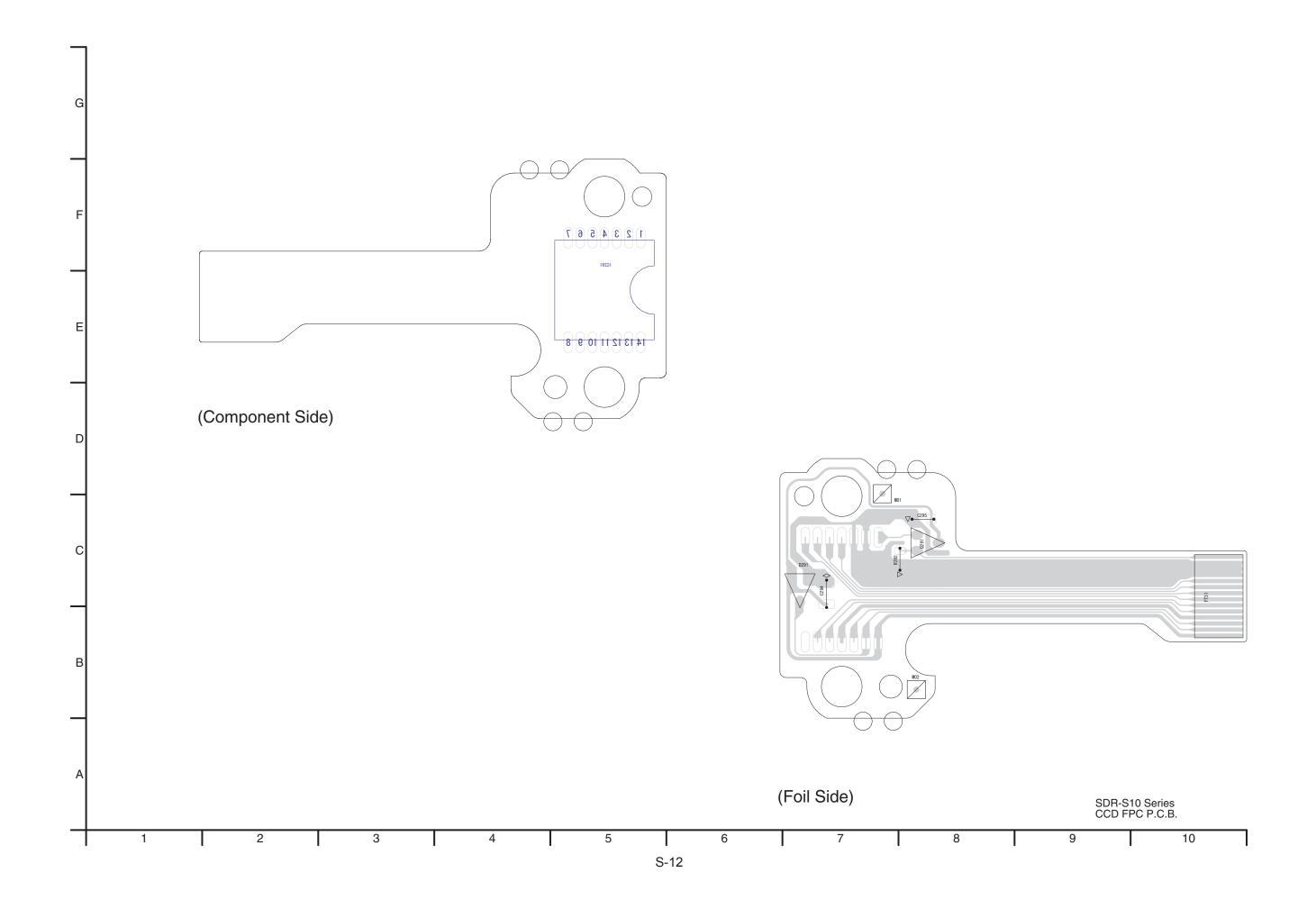


S5.2.1. Monitor P.C.B. (Component Side)









S6. Replacement Parts List

- Note: 1.* Be sure to make your orders of replacement parts according to this list.
 - 2. IMPORTANT SAFETY NOTICE Components identified with the mark \triangle have the special characteristics for safety. When replacing any of these components, use only the same type.
 - 3. Unless otherwise specified, All resistors are in OHMS, K=1,000 OHMS. All capacitors are in MICRO-FARADS (uf), P=uuF.
 - 4. The marking (RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.

E.S.D. standards for Electrostatically Sensitive Devices, refer to "PREVENTION OF ELECTROSTATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES) DEVICES" section.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	s Remarks
11010.		r dit ridino di 2000pilo	. 00	romano	FP8101	K1MN25AA0035		1	T tomano
##	VEP03H23A	MAIN P.C.B.	1	(RTL)E.S.D. P,PC,PL	FP8102	K1MN24BA0197	CONNECTOR 24P	1	
##	VEP03H23B	MAIN P.C.B.	1	(RTL)E.S.D. EB,EF,EG,E,EP	L8101	G1C101KA0055	CHIP INDUCTOR 100UH	1	
""	72. 001.205			(((12)2.0.0. 20,2.,20,2,2.	20101	0.0.0.0000	0.111 1112001011 100011		
##	VEP03H23C	MAIN P.C.B.	1	(RTL)E.S.D. GC,GN	Q8101	2SC6054J0L	TRANSISTOR	_	E.S.D.
##	VEP03H23D	MAIN P.C.B.	1	(DTL) = 0 D = E	Q8102 Q8104	2SC6054J0L 2SC6054J0L	TRANSISTOR	_	E.S.D.
##	VEPUSITZSD	MAIN P.C.B.	- '	(RTL)E.S.D. EE	Q8105	2SC6054J0L 2SC6054J0L	TRANSISTOR TRANSISTOR	1	E.S.D.
##	VEP03H23E	MAIN P.C.B.	1	(RTL)E.S.D. S18GK	Q8107	2SA2174J0L	TRANSISTOR	1	E.S.D.
					Q8108	2SC6054J0L	TRANSISTOR	-	E.S.D.
##	VEP03H24A	JACK P.C.B.	1	(RTL)	Q8112 Q8113	2SA2174J0L 2SA2174J0L	TRANSISTOR TRANSISTOR	1	E.S.D.
##	VEP29191A	MONITOR P.C.B.	1	(RTL) E.S.D.	QOIIS	25A2174JUL	TRANSISTOR	-	E.S.D.
	72. 2010171	inciti otti ioisi		(1112) 2,0.0.	R8102	ERJ3RBD271	M.RESISTOR CH 1/16W 270	1	ĺ
##	VEP04925A	FRONT P.C.B.	1	(RTL) E.S.D.	R8105	ERJ3RBD271	M.RESISTOR CH 1/16W 270	1	
					R8106	ERJ3RBD271	M.RESISTOR CH 1/16W 270	1	
					R8107 R8110	ERJ3RED270 ERJ3RED270	M.RESISTOR CH 1/16W 27 M.RESISTOR CH 1/16W 27	1	
##	VEP03H24A	JACK P.C.B.		(RTL)	R8112	ERJ3RED270	M.RESISTOR CH 1/16W 27	1	
					R8114	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1	ERJ3RBD563V
		C.CAPACITOR CH 25V 4700P	1		R8116	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
		C.CAPACITOR CH 25V 4700P C.CAPACITOR CH 16V 0.1U	1		R8119 R8123	ERJ3RED270 D0GB473JA057	M.RESISTOR CH 1/16W 27 M.RESISTOR CH 1/10W 47K	1	
C6354		C.CAPACITOR CH 16V 0.10	1		R8124	ERJ3RED270	M.RESISTOR CH 1/16W 27	1	
					R8126	ERJ3GEYJ104	M.RESISTOR CH 1/10W 100K	1	
FL6351		FILTER	1		R8127	D0GB102JA057	M.RESISTOR CH 1/10W 1K	1	
FL6352		FILTER FILTER	1		R8135 R8136	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
FL6353	VLF1378	FILTER	1		K0130	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	H	
FP6001	K1KA30B00077	CONNECTOR 30P	1						
<u> </u>	K5H4021A0011	IC PROTECTOR	1		##	VEP04925A	FRONT P.C.B.		(RTL) E.S.D.
JK4001	K2HZ110E0002	JACK	1		/N B6801	ML-614S/ZT	BATTERY	1	[MBI]
	K2HZ105E0011	JACK	1		22 - 111				· · · · · · ·
JK6352	K2EB2E000009	JACK	1		C4801	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
1.04004	10 11/000000004	EII TED			C4802	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
LB4001 LB4004		FILTER FILTER	1		C4803 C4804	F3F0J226A054 ECJ0EB1C822K	E.CAPACITOR CH 6.3V 22U C.CAPACITOR CH 16V 8200P	1	
LB4005		FILTER	1		C4805		C.CAPACITOR CH 16V 0.027U	1	F1G1C273A004
LB4006	J0JYC0000059	FILTER	1		C4806		C.CAPACITOR CH 16V 0.027U	1	F1G1C273A004
					C4808		C.CAPACITOR CH 16V 0.027U	1	F1G1C273A004
		M.RESISTOR CH 1/16W 0 M.RESISTOR CH 1/10W 1K	1		C4809 C4810	ECJ0EB1C822K	C.CAPACITOR CH 16V 8200P C.CAPACITOR CH 16V 0.027U	1	F1G1C273A004
		M.RESISTOR CH 1/16W 0	1		C4811	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	1 10102101001
					C4812	F3F0J226A054	E.CAPACITOR CH 6.3V 22U	1	
VA6352	D4ED18R00008	VARISTORS	1		C6503	F1G0J224A004	C.CAPACITOR CH 6.3V 0.22U	1	
					C6504 C6505	F1G1C104A080 F1G0J224A004	C.CAPACITOR CH 16V 0.1U C.CAPACITOR CH 6.3V 0.22U	1	
					00000	1 100022-1100-1	0.0/11/1011/011/011/0.07/0.220		
##	VEP29191A	MONITOR P.C.B.		(RTL) E.S.D.	D6503	MA3S132D0L	DIODE	-	E.S.D.
00404	E0 147/041/000 :	C CADACITOD OU 50V CCD			D6504	B3GA00000041	DIODE	1	E.S.D.
		C.CAPACITOR CH 50V 39P C.CAPACITOR CH 50V 39P	1		FP4801	K1MN04BA0197	CONNECTOR 4P	1	
		C.CAPACITOR CH 50V 39P	1		FP4802	K1MN12BA0197	CONNECTOR 12P	1	
C8107	ECJ1VB1A105K	C.CAPACITOR CH 10V 1U	1						
		C.CAPACITOR CH 10V 4.7U	1		IC4801	C0ABBB000369	IC	1	E.S.D.
		C.CAPACITOR CH 16V 0.1U C.CAPACITOR CH 16V 0.1U	1		Q4801	2SD2216J0L	TRANSISTOR	1	E.S.D.
		C.CAPACITOR CH 10V 2.2U	1		Q6501	B1ABCF000098	TRANSISTOR	-	E.S.D.
	ECJ1VB1A105K	C.CAPACITOR CH 10V 1U	1		Q6502	2SB1218ARL	TRANSISTOR	1	2SB1218AR E.S.D.
		C.CAPACITOR CH 16V 0.1U	1		D4000	ED 1905 1470	M DECICTOR OU AMON A 714	L .	
C8116	ECJ1VB1A105K	C.CAPACITOR CH 10V 1U	1		R4802 R4803	ERJ2GEJ472 ERJ2GEJ223	M.RESISTOR CH 1/16W 4.7K M.RESISTOR CH 1/16W 22K	1	
D8101	MAZ80620ML	DIODE	1	E.S.D.	R4804	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
D8102	B3AFB0000163	DIODE	1	E.S.D.	R4805	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	1	
		DIODE		E.S.D.	R4806	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	DOUBOO74000
D8104 D8105		DIODE		E.S.D.	R4807 R4808	VRE0071E392 ERJ2GEJ124	M.RESISTOR CH 1/10W 3.9K M.RESISTOR CH 1/16W 120K	1	D0HB392ZA002
		DIODE		E.S.D.	R4809	ERJ2GEJ124 ERJ2GEJ333	M.RESISTOR CH 1/16W 120K	1	
		DIODE		E.S.D.	R4810	VRE0071E392	M.RESISTOR CH 1/10W 3.9K	_1	D0HB392ZA002
					R6504	ERJ2GEJ106X	M.RESISTOR CH 1/16W 10M	1	
EP8101	K9ZZ00001073	EARTH TERMINAL	1		R6505 R6506	ERJ3GEYJ335	M.RESISTOR CH 1/10W 3.3M	1	
	1				KOOUO	ERJ2GEJ184	M.RESISTOR CH 1/16W 180K	⊢ ¹	4

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R6507	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	Remarks	INGLINO.	i ditivo.	i ait ivaille à Description	1 63	Remarks
R6509	ERJ2GEJ102X	M.RESISTOR CH 1/16W 1K		ERJ2RMJ102X					
R6801	ERJ6GEYJ222V	M.RESISTOR CH 1/10W 2.2K	1						
VA4801	D4ED1270A007	SURGE ABSORBER	1						
VA4802	D4ED1270A007	SURGE ABSORBER	1						
			1						
ZB0001	K3ZZ00500014	CONNECTOR	-						
					-				
								-	
								-	
	-					-			
					-				
	-					-			
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					-				
									-

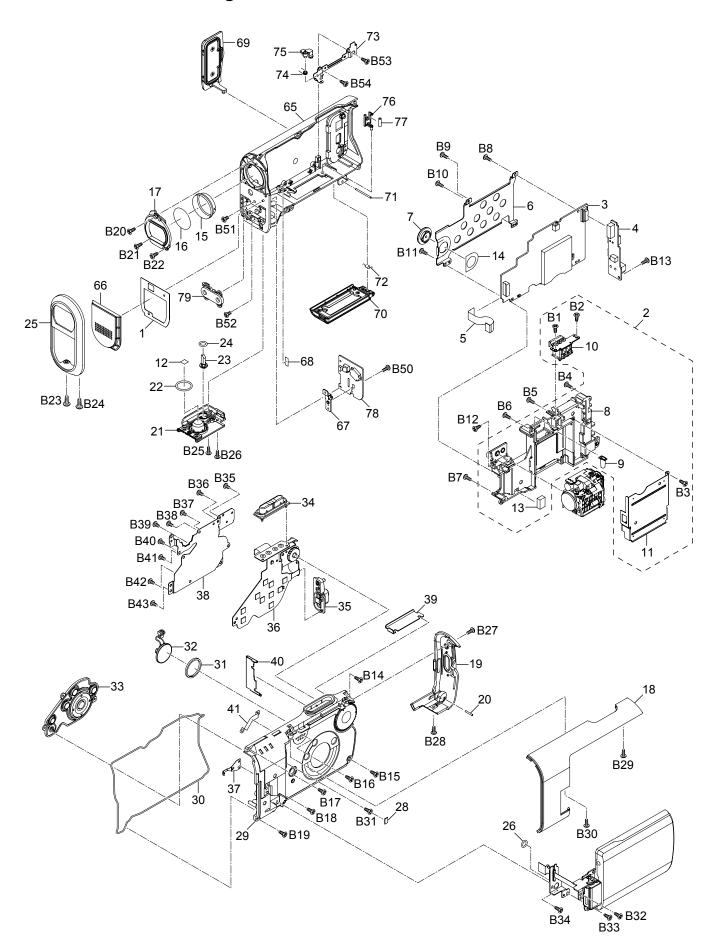
FRONT PANEL TAPE MAIN FRAME UNIT A MAIN P.C.B. B MAIN P.C.B. C MAIN P.C.B. E MAIN P.C.B. A JACK P.C.B. FRONT FPC RADIATION PLATE SUBREC BUTTON RUBBER UNIT MAIN FRAME BATTERY OUT SPRING BATTERY CASE LABEL GASKET FRAME SHEET LENS DAMPER LENS PROTECTION GLASS LENS PIECE R COVER REAR COVER STRAP SHAFT	11 11 11 11 11 11 11 11 11 11 11 11 11	(RTL)E.S.D. P,PC,PL (RTL)E.S.D. EB,EF,EG,E,EP (RTL)E.S.D. EE (RTL)E.S.D. GC,GN (RTL)E.S.D. S18GK (RTL)	B13 B14 B15 B16 B17 B18 B19 B20 B21 B22 B23 B24 B25 B26 B27 B28	XQN16+BJ4FN XQN16+BJ6FJK XQN16+BJ6FJK XQN16+BJ6FJK XQN16+BJ6FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK	SCREW	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
MAIN FRAME UNIT A MAIN P.C.B. B MAIN P.C.B. C MAIN P.C.B. E MAIN P.C.B. E MAIN P.C.B. A JACK P.C.B. FRONT FPC RADIATION PLATE SUBREC BUTTON RUBBER UNIT MAIN FRAME BATTERY OUT SPRING BATTERY CATCHER UNIT BATTERY CASE LABEL GASKET FRAME SHEET LENS DAMPER LENS PROTECTION GLASS LENS PIECE R COVER REAR COVER	1 1 1 1 1	(RTL)E.S.D. EB,EF,EG,E,EP (RTL)E.S.D. EE (RTL)E.S.D. GC,GN (RTL)E.S.D. S18GK	B15 B16 B17 B18 B19 B20 B21 B22 B23 B24 B25 B26 B27 B28	XQN16+BJ6FJK XQN16+BJ6FJK XQN16+BJ6FJK XQN16+BJ6FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK	SCREW	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
A MAIN P.C.B. B MAIN P.C.B. C MAIN P.C.B. E MAIN P.C.B. A JACK P.C.B. FRONT FPC RADIATION PLATE SUBREC BUTTON RUBBER UNIT MAIN FRAME BATTERY OUT SPRING BATTERY CATCHER UNIT BATTERY CASE LABEL GASKET FRAME SHEET LENS DAMPER LENS PROTECTION GLASS LENS PIECE R COVER REAR COVER	1 1 1 1 1	(RTL)E.S.D. EB,EF,EG,E,EP (RTL)E.S.D. EE (RTL)E.S.D. GC,GN (RTL)E.S.D. S18GK	B16 B17 B18 B19 B20 B21 B22 B23 B24 B25 B26 B27 B28	XQN16+BJ6FJK XQN16+BJ6FJK XQN16+BJ6FJK XQN16+BJ6FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK	SCREW	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
B MAIN P.C.B. D MAIN P.C.B. C MAIN P.C.B. E MAIN P.C.B. A JACK P.C.B. FRONT FPC RADIATION PLATE SUBREC BUTTON RUBBER UNIT MAIN FRAME BATTERY OUT SPRING BATTERY CATCHER UNIT BATTERY CASE LABEL GASKET FRAME SHEET LENS DAMPER LENS PROTECTION GLASS LENS PIECE R COVER REAR COVER	1 1 1 1 1	(RTL)E.S.D. EB,EF,EG,E,EP (RTL)E.S.D. EE (RTL)E.S.D. GC,GN (RTL)E.S.D. S18GK	B17 B18 B19 B20 B21 B22 B23 B24 B25 B26 B27 B28	XQN16+BJ6FJK XQN16+BJ6FJK XQN16+BJ6FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK	SCREW	1 1 1 1 1 1 1 1 1 1	
D MAIN P.C.B. C MAIN P.C.B. E MAIN P.C.B. E MAIN P.C.B. A JACK P.C.B. FRONT FPC RADIATION PLATE SUBREC BUTTON RUBBER UNIT MAIN FRAME BATTERY OUT SPRING BATTERY CATCHER UNIT BATTERY CASE LABEL GASKET FRAME SHEET LENS DAMPER LENS PROTECTION GLASS LENS PIECE R COVER REAR COVER	1 1 1 1 1	(RTL)E.S.D. EE (RTL)E.S.D. GC,GN (RTL)E.S.D. S18GK	B18 B19 B20 B21 B22 B23 B24 B25 B26 B27 B28	XQN16+BJ6FJK XQN16+BJ6FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK	SCREW SCREW SCREW SCREW SCREW SCREW SCREW SCREW SCREW	1 1 1 1 1 1 1 1 1 1	
C MAIN P.C.B. E MAIN P.C.B. A JACK P.C.B. FRONT FPC RADIATION PLATE SUBREC BUTTON RUBBER UNIT MAIN FRAME BATTERY OUT SPRING BATTERY CATCHER UNIT BATTERY CASE LABEL GASKET FRAME SHEET LENS DAMPER LENS PROTECTION GLASS LENS PIECE R COVER REAR COVER	1 1 1 1 1	(RTL)E.S.D. GC,GN (RTL)E.S.D. S18GK	B19 B20 B21 B22 B23 B24 B25 B26 B27 B28	XQN16+BJ6FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK	SCREW SCREW SCREW SCREW SCREW SCREW SCREW SCREW SCREW	1 1 1 1 1 1 1 1	
E MAIN P.C.B. A JACK P.C.B. FRONT FPC RADIATION PLATE SUBREC BUTTON RUBBER UNIT MAIN FRAME BATTERY OUT SPRING BATTERY CATCHER UNIT BATTERY CASE LABEL GASKET FRAME SHEET LENS DAMPER LENS PROTECTION GLASS LENS PIECE R COVER	1 1 1 1 1	(RTL)E.S.D. S18GK	B20 B21 B22 B23 B24 B25 B26 B27 B28	XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK	SCREW SCREW SCREW SCREW SCREW SCREW SCREW	1 1 1 1 1 1 1 1 1	
A JACK P.C.B. FRONT FPC RADIATION PLATE SUBREC BUTTON RUBBER UNIT MAIN FRAME BATTERY OUT SPRING BATTERY CATCHER UNIT BATTERY CASE LABEL GASKET FRAME SHEET LENS DAMPER LENS PROTECTION GLASS LENS PIECE R COVER REAR COVER	1 1 1 1 1	, ,	B21 B22 B23 B24 B25 B26 B27 B28	XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK	SCREW SCREW SCREW SCREW SCREW SCREW	1 1 1 1 1 1 1	
FRONT FPC RADIATION PLATE SUBREC BUTTON RUBBER UNIT MAIN FRAME BATTERY OUT SPRING BATTERY CATCHER UNIT BATTERY CASE LABEL GASKET FRAME SHEET LENS DAMPER LENS PROTECTION GLASS LENS PIECE R COVER REAR COVER	1 1 1 1 1		B22 B23 B24 B25 B26 B27 B28	XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK	SCREW SCREW SCREW SCREW	1 1 1 1 1	
RADIATION PLATE SUBREC BUTTON RUBBER UNIT MAIN FRAME BATTERY OUT SPRING BATTERY CATCHER UNIT BATTERY CASE LABEL GASKET FRAME SHEET LENS DAMPER LENS PROTECTION GLASS LENS PIECE R COVER REAR COVER	1 1 1 1 1		B23 B24 B25 B26 B27 B28	XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK	SCREW SCREW SCREW	1 1 1	
SUBREC BUTTON RUBBER UNIT MAIN FRAME BATTERY OUT SPRING BATTERY CATCHER UNIT BATTERY CASE LABEL GASKET FRAME SHEET LENS DAMPER LENS PROTECTION GLASS LENS PIECE R COVER REAR COVER	1 1 1 1 1		B24 B25 B26 B27 B28	XQN16+BJ4FJK XQN16+BJ4FJK XQN16+BJ4FJK	SCREW SCREW	1 1	ļ
MAIN FRAME BATTERY OUT SPRING BATTERY CATCHER UNIT BATTERY CASE LABEL GASKET FRAME SHEET LENS DAMPER LENS PROTECTION GLASS LENS PIECE R COVER REAR COVER	1 1 1 1 1		B25 B26 B27 B28	XQN16+BJ4FJK XQN16+BJ4FJK	SCREW	1	
BATTERY CATCHER UNIT BATTERY CASE LABEL GASKET FRAME SHEET LENS DAMPER LENS PROTECTION GLASS LENS PIECE R COVER REAR COVER	1 1 1 1 1		B27 B28	XQN16+BJ4FJK	SCREW	1	
BATTERY CASE LABEL GASKET FRAME SHEET LENS DAMPER LENS PROTECTION GLASS LENS PIECE R COVER REAR COVER	1 1 1 1 1		B28	XQN16+BJ4FJK			
LABEL GASKET FRAME SHEET LENS DAMPER LENS PROTECTION GLASS LENS PIECE R COVER REAR COVER	1 1 1				SCREW	1	
GASKET FRAME SHEET LENS DAMPER LENS PROTECTION GLASS LENS PIECE R COVER REAR COVER	1			XQN16+BJ4FJK	SCREW	1	
FRAME SHEET LENS DAMPER LENS PROTECTION GLASS LENS PIECE R COVER REAR COVER	1		B29	VHD1710	SCREW	1	
LENS DAMPER LENS PROTECTION GLASS LENS PIECE R COVER REAR COVER	1		B30	VHD1710	SCREW	1	
LENS PROTECTION GLASS LENS PIECE R COVER REAR COVER	1		B31	XQN2+BJ4FN	SCREW	1	
LENS PIECE R COVER REAR COVER	_		B32	XQN2+BJ4FN	SCREW	1	
R COVER REAR COVER	1 1		B33	XQN2+BJ4FN	SCREW	1	
REAR COVER	+ '		B34	XQN2+BJ4FN	SCREW	1	
	1		B35	VHD1630	SCREW	1	
ISTRAP SHAFT	1		B36	VHD1630	SCREW	1	
	+1		B37	VHD1630	SCREW	1	
TRIPOD PIECE	1		B38	VHD1630 VHD1630	SCREW SCREW	1	
TRIPOD O RING ACCESS PANEL LIGHT	1		B39 B40	VHD1630 VHD1630	SCREW	1	
PANEL LIGHT O RING	1		B40 B41	VHD1630 VHD1630	SCREW	1	
FRONT CASE UNIT	+		B41	VHD1630	SCREW	1	
GND O RING	1		B43	VHD1630	SCREW	1	
	1					1	
	1	P.PL.E.EB.EE.EF.EG.EP.GC.GN				1	
R BASE UNIT	-		B52		SCREW	1	
R BASE UNIT	1	S18GK	B53	VHD1630	SCREW	1	
CASE O RING	1		B54	VHD1630	SCREW	1	
SPEAKER WATERPROOF SHEET	1					i i	
0029 SPEAKER UNIT	1						
OPERATION RUBBER UNIT	1						
ZOOM OP RUBBER UNIT	1						
SS BUTTON RUBBER UNIT	1						
A OPERATION FPC UNIT	1						
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BATTERY LOCK ANGLE UNIT	-						
BATTERY LOCK SPRING	_						
BATTERY LOCK KNOB	_					t	
BATT DETECTION BUTTON	-						
SD LOCK SPRING	1					l	
A FRONT P.C.B.	1	(RTL) E.S.D.	11			İ	
ECM UNIT	1						
4FN SCREW	1						
4FN SCREW	1					\Box	
4FN SCREW	_						
5FN SCREW	-						
5FN SCREW	_						
5FN SCREW						1	
5FN SCREW	_						
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5FN SCREW	-					<u> </u>	
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	1					1	
4FN SCREW	1			1			
I	1	1					
	R BASE RUBBER R BASE UNIT R BASE UNIT R BASE UNIT R BASE UNIT R BASE UNIT R BASE UNIT CASE O RING SPEAKER WATERPROOF SHEET DO29 SPEAKER WATERPROOF SHEET DO29 SPEAKER UNIT OPERATION RUBBER UNIT SS BUTTON RUBBER UNIT A OPERATION FPC UNIT EARTH ANGLE OPERATION ANGLE ZOOM OPERATION ANGLE SS OPERATION ANGLE AL SHEET B SIDE CASE L FRONT PANEL FRONT ANGLE ECM FPC SHEET JACK DOOR U BATTERY DOOR UNIT BATTERY DOOR SHAFT BATTERY DOOR SHAFT BATTERY LOCK ANGLE UNIT BATTERY LOCK ANGLE UNIT BATTERY LOCK SPRING BATTERY LOCK SPRING BATTERY LOCK SPRING BATTERY LOCK SPRING BATTERY LOCK SPRING BATTERY LOCK SPRING BATTERY LOCK SPRING BATTERY LOCK SPRING BATTERY LOCK SPRING BATTERY LOCK SPRING BATTERY LOCK SPRING SCREW SFN SCREW	R BASE RUBBER R BASE UNIT R BASE UNIT R BASE UNIT R BASE UNIT CASE O RING SPEAKER WATERPROOF SHEET OD29 SPEAKER WATERPROOF SHEET OD29 SPEAKER UNIT OPERATION RUBBER UNIT SS BUTTON RUBBER UNIT A OPERATION FPC UNIT EARTH ANGLE COOM OPERATION ANGLE ZOOM OPERATION ANGLE SS OPERATION ANGLE AL SHEET B SIDE CASE L FRONT PANEL FRONT PANEL FRONT PANEL FRONT PANEL FRONT PANEL SEMFY DOOR SHAFT BATTERY DOOR SHAFT BATTERY DOOR SHAFT BATTERY DOOR SPRING BATTERY LOCK KNOB BATTERY LOCK KNOB BATTERY LOCK KNOB BATTERY LOCK KNOB BATTERY LOCK KNOB BATTERY LOCK KNOB BATTERY LOCK KNOB BATTERY LOCK KNOB BATTERY LOCK KNOB BATTERY LOCK KNOB BATTERY LOCK KNOB BATTERY LOCK KNOB BATTERY LOCK KNOB BATTERY LOCK KNOB BATTERY LOCK KNOB BATTERY LOCK KNOB BATTERY LOCK KNOB BATTERY LOCK KNOB BATTERY LOCK KNOB BATTERY LOCK SPRING A FRONT P.C.B. ECM UNIT 4FN SCREW 5FN SC	R BASE RUBBER R BASE UNIT SPEAKER WATERPROOF SHEET OPERATION RUBBER UNIT J OPERATION RUBBER UNIT A OPERATION FPC UNIT EARTH ANGLE OPERATION ANGLE I SS OPERATION ANGLE I SS OPERATION ANGLE A L SHEET B SIDE CASE L FRONT PANEL FRONT ANGLE I FRONT ANGLE I BATTERY DOOR SPRING BATTERY LOCK KNOB BATTERY LOCK SPRING BATTERY	R BASE RUBBER	R BASE RUBBER 1 1 R BASE UNIT 1 P.P.L.E.B.E.E.F.E.G.E.P.G.G.N B51 XQN16-B25FN B62 UNIT 1 P.C B52 XQN16-B25FN B65 XQN16-B25FN B67 XQN16-B25FN B65 XQN16-B25FN B67 XQN16-B25FN B	R BASE RUBBER	R BASE RUBBER 1 1

27 VMP8805	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
42	1
43	1
444 VSC5959 LCD SHIELD CASE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 E.S.D. 1 1
45	1 1 1 1 1 1 1 1 1 1 1 1 1 1 E.S.D. 1 1
46	1
48	1
49	1 1 1 1 1 1 1 1 1 1 E.S.D. 1 1
S0	1
S1	1 1 1 1 1 E.S.D.
S2	1 1 1 E.S.D.
1	1 1 E.S.D.
54 VXD0492 LCD HINGE UNIT 1 55 VKM7108 HINGE COVER TOP 1 56 VKM7109 HINGE COVER BOTTOM 1 57 VGQ9389 FPC HINGE TAPE 1 58 VKM7111 LCD CASE TOP 1 58 VKM7159 LCD CASE TOP 1 59 VMG1724 LCD RUBBER 1 60 VMG1724 LCD RUBBER 1 61 VMG1789 SCREW O RING 1 61 VMG1789 SCREW O RING 1 62 VMG1789 SCREW O RING 1 63 VMG1789 SCREW O RING 1 64 VMG1789 SCREW O RING 1 844 VHD1712 SCREW 1 <tr< td=""><td>1 E.S.D.</td></tr<>	1 E.S.D.
56 VKM7109 HINGE COVER BOTTOM 1 57 VGQ9389 FPC HINGE TAPE 1 58 VKM7111 LCD CASE TOP 1 58 VKM7159 LCD CASE TOP 1 59 VMG1724 LCD RUBBER 1 60 VMG1724 LCD RUBBER 1 61 VMG1789 SCREW O RING 1 61 VMG1789 SCREW O RING 1 62 VMG1789 SCREW O RING 1 63 VMG1789 SCREW O RING 1 64 VMG1789 SCREW O RING 1 8209 XQN16+CJ4FJR SCREW 1 B208 XQN16+CJ4FJR B209 XQN16+CJ4FJR SCREW 1 B209 XQN16+CJ4FJR SCREW 1 B44	1
57 VGQ9389 FPC HINGE TAPE 1 58 VKM7111 LCD CASE TOP 1 S10 B201 XQN16+CJ4FJR SCREW 1 58 VKM7119 LCD CASE TOP 1 S18GK B202 XQN16+CJ7FJ SCREW 1 59 VMG1724 LCD RUBBER 1 B203 XQN16+CJ7FJ SCREW 1 60 VMG1724 LCD RUBBER 1 B204 XQN16+CJ7FJ SCREW 1 61 VMG1789 SCREW O RING 1 B205 XQN16+CJ4FJR SCREW 1 62 VMG1789 SCREW O RING 1 B206 XQN16+CJ4FJR SCREW 1 63 VMG1789 SCREW O RING 1 B207 XQN16+CJ4FJR SCREW 1 64 VMG1789 SCREW O RING 1 B208 XQN16+CJ4FJR SCREW 1 B44 VHD1712 SCREW 1 B208 XQN16+CJ4FJR SCREW 1 B45	
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60 VMG1724 LCD RUBBER 1 B204 XQN16+CJ7FJ SCREW 1 61 VMG1789 SCREW O RING 1 B205 XQN16+CJ4FJR SCREW 1 62 VMG1789 SCREW O RING 1 B206 XQN16+CJ4FJR SCREW 1 63 VMG1789 SCREW O RING 1 B207 XQN16+CJ4FJR SCREW 1 64 VMG1789 SCREW O RING 1 B208 XQN16+CJ4FJR SCREW 1 B44 VHD1712 SCREW 1 B209 XQN16+CJ4FJR SCREW 1 B45 VHD1712 SCREW 1 B210 XQN16+CJ4FJR SCREW 1 B46 XQN16+BJ5FJK SCREW 1 B211 XQN16+CJ4FJR SCREW 1 B47 XQN16+BJ5FJK SCREW 1 SCREW 1 B48 XQN16+BJ5FJK SCREW 1 SCREW 1	1
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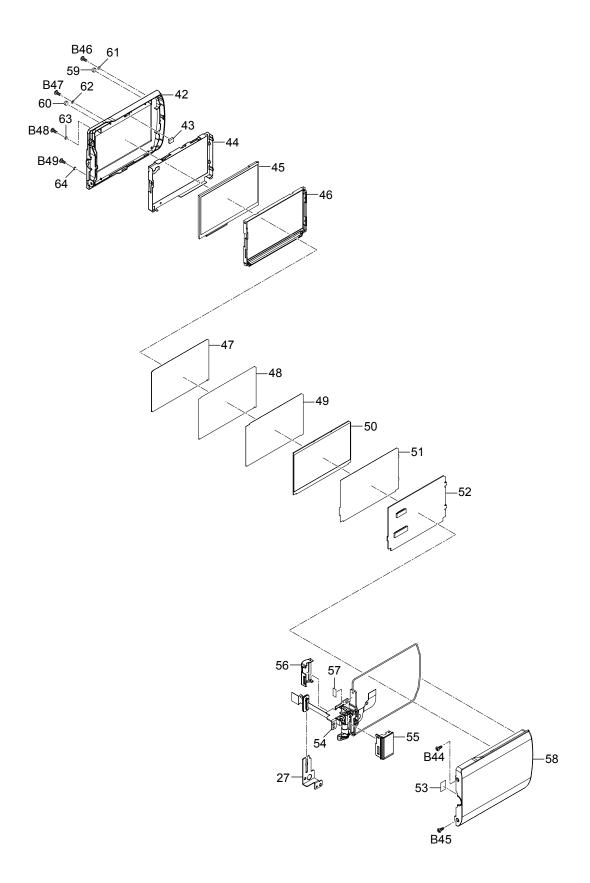
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
A 200		BATTERY PACK	1						
<u></u> 300 301		AV CABLE	1						
<u> 301</u> <u> </u>		AC ADAPTOR	-	P.PC					
<u>∧</u> 302		AC ADAPTOR	_	EB,EE,EF,EG,E,EP,GC,GN,PL					
<u> </u>		AC ADAPTOR	1	S18GK					
303		HAND STRAP	1						
304		USB CABLE	1						
305		PACKING CASE		P,PC					
305		PACKING CASE	_	EB,EE,EF,EG,E,EP,GC,GN,PL					
305 306	VPG1N32 VPN6582	PACKING CASE CUSHION	1	S18GK					
307	VFF0367-S	CD-ROM	1	P.PC					
307	VFF0368-S	CD-ROM	1	EB,EE,EF,EG,E,EP,GC,GN,PL,S18GK					
308	VPF1249	CAMERA BAG	1						
309	VPF1253	BAG, POLYETHYLENE	1						
<u> </u>	VQT1D97	OPERATING INSTRUCTIONS	1	P,PC					
A 040	VOT1000	(ENGLISH(SPANISH))	_	D0					
<u></u> 310	VQT1D99	OPERATING INSTRUCTIONS	1	PC					
<u> </u>	VQT1E14	(CANADIAN FRENCH) OPERATING INSTRUCTIONS	1	EB,EP,GC,GN					
217 210	VQTTLIT	(ENGLISH)		LB,LI ,00,0I4					
<u> </u>	VQT1E19	OPERATING INSTRUCTIONS	1	EE				Ħ	
		(RUSSIAN)							
<u></u> 310	VQT1E20	OPERATING INSTRUCTIONS	1	EE			-		-
A -		(UKRAINIAN)							
<u></u> 310	VQT1E03	OPERATING INSTRUCTIONS	1	EF,EG				<u> </u>	
A 210	VOT4E00	(FRENCH)	١,	FC	 			1	
<u></u> 310	VQT1E02	OPERATING INSTRUCTIONS (GERMAN)	1	EG					
<u></u> 110 <u> </u>	VQT1E04	OPERATING INSTRUCTIONS	1	EG					
217 010	VQTTEOT	(ITALIAN)	Ė	20					
<u></u> 110 <u></u> 310	VQT1E05	OPERATING INSTRUCTIONS	1	EG					
		(DUTCH)							
<u></u> 310	VQT1E59	OPERATING INSTRUCTIONS	1	EG					
		(TURKISH)							
<u></u> 310	VQT1E06	OPERATING INSTRUCTIONS	1	E					
A 210	VOT1E07	(SPANISH)	-	Г					
<u></u> 310	VQT1E07	OPERATING INSTRUCTIONS (PORTUGUESE)	_'	E					
<u></u> 110 <u> </u>	VQT1E08	OPERATING INSTRUCTIONS	1	E					
22.00		(SWEDISH)	-	=					
<u></u> 310	VQT1E09	OPERATING INSTRUCTIONS	1	E					
		(DANISH)							
<u></u> 310	VQT1E11	OPERATING INSTRUCTIONS	1	EP					
A 040	VOT4540	(HUNGARIAN)	_						
<u> 1</u> 310	VQT1E12	OPERATING INSTRUCTIONS (POLISH)	1	EP					
<u></u> 10 <u> </u>	VQT1E13	OPERATING INSTRUCTIONS	1	EP					
217 010		(CZECH)							
<u></u> 310		OPERATING INSTRUCTIONS	1	GC					
		(CHINESE(TRADITIONAL))							
<u></u> 310	VQT1E16	OPERATING INSTRUCTIONS	1	GC					
A 0/2	VOT4500	(ARABIC)		00					
<u></u> 310	VQT1E60	OPERATING INSTRUCTIONS	1	GC	 			1	
<u></u> 310	VQT1E17	(PERSIAN) OPERATING INSTRUCTIONS	-	GC				1	
<u>/!/</u> 310	VQIIEI/	(THAI)	H	00				<u> </u>	
<u></u> 10 <u> </u>	VQT1E18	OPERATING INSTRUCTIONS	1	GC				H	
		(SINGAPOREAN)	Ė					f	
<u></u> 310	VQT1E00	OPERATING INSTRUCTIONS	_1	PL					
		(ENGLISH)		-			-		-
<u></u> 310	VQT1E01	OPERATING INSTRUCTIONS	1	PL					
A 242	VOTATOO	(SPANISH)	L	04001/				-	
<u></u> 310	VQT1E22	OPERATING INSTRUCTIONS	_1	S18GK				-	
		(CHINESE(TRADITIONAL)/ ENGLISH)	\vdash					1	
311		SD CARD (2G)	1						
312		BAG, POLYETHYLENE	1					Ħ	
		AC CORD W/PLUG	1	EE,EF,EG,E,EP,GC					
		AC CORD W/PLUG		GN					
		AC CORD W/PLUG		PC,P,PL					
		AC CORD W/PLUG	_	\$18GK					
<u></u> 316	K2CT3CA00004	AC CORD W/PLUG	1	EB,GC				-	
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			\vdash					1	
		<u>i</u>	_				<u> </u>	1	i

S7. Exploded View

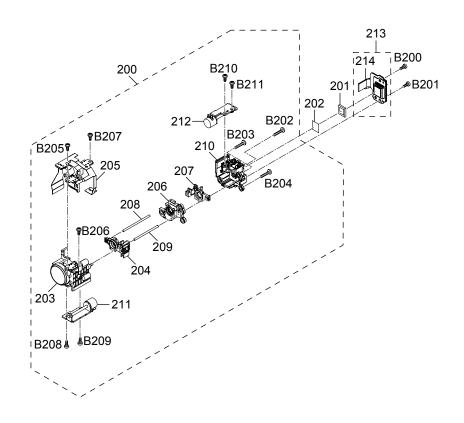
S7.1. Frame and Casing Section



S7.2. LCD Section



S7.3. Camera Lens Section



S7.4. Packing Parts and Accessories Section

