Service Manual

Digital Camera







DMC-FX33PC
DMC-FX33PL
DMC-FX33EL
DMC-FX33EB
DMC-FX33EE
DMC-FX33EF
DMC-FX33EF
DMC-FX33GC
DMC-FX33GC
DMC-FX33GN
DMC-FX33GN
DMC-FX33GN

Vol. 1

Colour

(S).....Silver Type

(K).....Black Type

(T).....Brown Type (only P/E/EE/EF/EG) (W)......White Type (only GC/GK/GT/SG)

DMC-FX33SG

(W)......Pink Type (only GC/GK/GT/SG)

(A).....Blue Type (only P/PC/PL/E/EE/EG)

⚠ 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.

Panasonic[®]

© 2007 Matsushita Electric Industrial Co., Ltd. All rights reserved. Unauthorized copying and distribution is a violation of law.

TABLE OF CONTENTS

	PAGE
1 Safety Precaution	
1.1. General Guidelines	
1.2. Leakage Current Cold Check	3
1.3. Leakage Current Hot Check (See Figure 1.)	3
1.4. How to Discharge the Capacitor on Flash Top	
PCB	
2 Warning	5
2.1. Prevention of Electrostatic Discharge (ESD))
to Electrostatically Sensitive (ES) Devices	5
2.2. How to Recycle the Lithium Ion Battery (U.S	
Only)	5
2.3. Caution for AC Cord(For EB/GC/SG)	6
2.4. How to Replace the Lithium Battery	
3 Service Navigation	8
3.1. Introduction	8
3.2. General Description About Lead Free Solder	r
(PbF)	
3.3. Important Notice 1:(Other than U.S.A. and	ł
Canadian Market)	
3.4. How to Define the Model Suffix (NTSC or PAL	
model)	
4 Specifications	12
5 Location of Controls and Components	
6 Service Mode	14
6.1. Error Code Memory Function	14
7 Service Fixture & Tools	
7.1. Service Fixture and Tools	
7.2. When Replacing the Main PCB	
7.3. Service Position	
8 Disassembly and Assembly Instructions	19
8.1. Disassembly Flow Chart	19
8.2. PCB Location	
8.3. Disassembly Procedure	20
8.4. Disassembly Procedure for the Lens	
8.5. Assembly Procedure for the Lens	26
8.6. Removal of the CCD Unit	
8.7. The Applyment of Grease Method	30
9 Measurements and Adjustments	31
9.1. Matrix Chart for Replaced Part and Necessary	/
Adjustment	
10 Maintenace	
10.1. Cleaning Lens and LCD Panel	

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 $\mathrm{M}\Omega$ and 5.2 $\mathrm{M}\Omega.$ 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

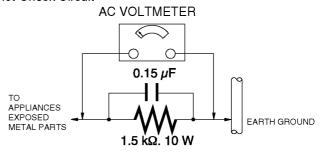


Figure. 1

1.4. How to Discharge the Capacitor on Flash Top PCB

CAUTION:

- 1. Be sure to discharge the capacitor on FLASH TOP PCB.
- 2. Be careful of the high voltage circuit on FLASH TOP PCB when servicing.

[Discharging Procedure]

- 1. Refer to the disassemble procedure and Remove the necessary parts/unit.
- 2. Put the insulation tube onto the lead part of Resistor (ERG5SJ102:1k Ω /5W). (an equivalent type of resistor may be used.)
- 3. Put the resistor between both terminals of capacitor on FLASH TOP PCB for approx. 5 seconds.
- 4. After discharging confirm that the capacitor voltage is lower than 10V using a voltmeter.

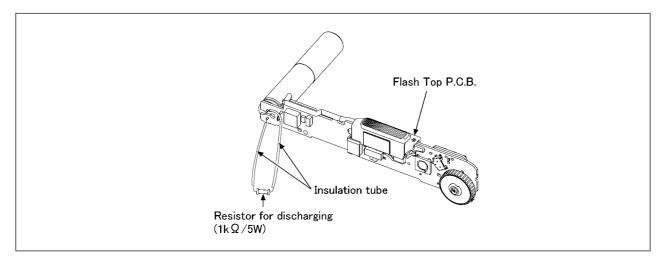


Fig. F1

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 CCD image sensor, IC (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/SG)

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:

Blue	Neutral
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.

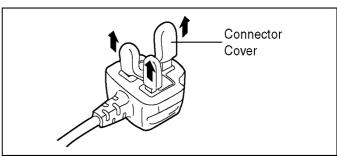
The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

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.



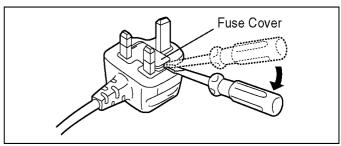
2.3.2.2. Before Use

Remove the Connector Cover as follows.

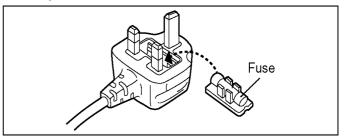


2.3.2.3. How to Replace the Fuse

1. Remove the Fuse Cover with a screwdriver.



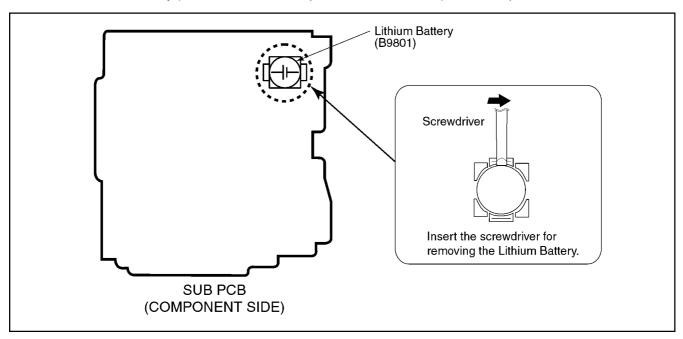
2. Replace the fuse and attach the Fuse cover.



2.4. How to Replace the Lithium Battery

2.4.1. Replacement Procedure

- 1. Remove the SUB PCB. (Refer to Disassembly Procedures.)
- 2. Remove the Lithium battery (Ref. No. "B9801" at component side of SUB PCB) and then replace it into new one.



NOTE:

This Lithium battery is a critical component.

(Type No.: ML421S/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 DMC-FX33 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)	1 01

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 and SUB PCB.
 - b. Parts list for individual parts for MAIN PCB and SUB PCB.

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

- 2. The following category is/are recycle module part. please send it/them to Central Repair Center.
 - MAIN PCB (VEP56049A)
 - SUB PCB (VEP51015A) : Excluding replacement of Lithium Battery

^{*} 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 DMC-FX33, regardless of the colours.

- a) DMC-FX33 (Japan domestic model)
- b) DMC-FX33P/PC
- c) DMC-FX33E/EB/EF/EG/GN
- d) DMC-FX33EE
- e) DMC-FX33GD/GT/GK
- f) DMC-FX33PL/GC/SG

What is the difference is that the "INITIAL SETTINGS" 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 nameplate which is putted on the bottom side of the Unit.

a) DMC-FX33 (Japan domestic model)

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



b) DMC-FX33P/PC

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



c) DMC-FX33E/EB/EF/EG/GN

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



d) DMC-FX33EE

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



e) DMC-FX33GD/GT/GK

The nameplate for these models show full model number. (with suffix)

f) DMC-FX33PL/GC/SG

The nameplate for these models do not show any above Safety registration marks.

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.



3.4.2. INITIAL SETTINGS:

When you replace the Main PCB, be sure to perform the initial settings after achieving the adjustment by ordering the following procedure in accordance with model suffix of the unit.

1. IMPORTANT NOTICE:

Before proceeding Initial settings, be sure to read the following CAUTIONS.

CAUTION 1 (Initial Settings)

<u>DO NOT</u> select "NONE(JAPAN)" or "P"(North America) if need to select "EG/E/PL/GD/GC/SG/GT/GK/EF/EB/EE/GN and PC".

Otherwise, once "NONE(JAPAN)" or "P"(North America) are selected, "EG/E/PL/GD/GC/SG/GT/GK/EF/EB/EE/GN and PC" will not displayed, thus, RE-Settings (changing area) can not be made.

CAUTION 2 (Picture back up from "Built-in Memory")

This unit employs "Built-in Memory" for picture image data recording.(Approx.27MB) Be sure to make picture data back up (i.e., Copying to SD memory card), before proceeding "INITIAL SETTINGS".

Once "INITIAL SETTINGS" has been carried out, all image data stored at "Built-in Memory" is erased.

2. PROCEDURES:

- Preparation. Proceed the picture back up from the unit (Refer to above "CAUTION 2")
- Step 1. The temporary cancellation of initial setting:

Set the mode dial to "[Normal picture mode] (Red camera mark)".

While keep pressing [DISPLAY] and "[UP] of Cross key" simultaneously, turn the Power on.

• Step 2. The cancellation of initial setting:

Set the mode dial to "[Playback]".

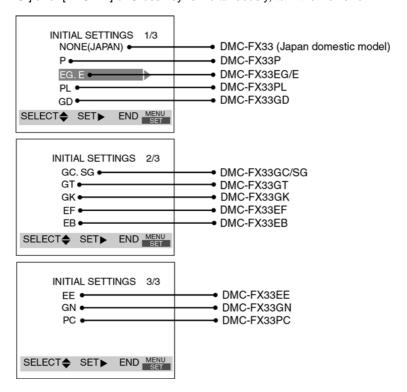
Press [DISPLAY] and "[UP] of Cross key" simultaneously, then turn the Power off.

• Step 3. Turn the Power on:

Set the mode dial to "[Normal picture mode] (Red camera mark)", and then turn the Power on.

Step 4. Display the INITIAL SETTING:

While keep pressing [MENU] and "[RIGHT] of Cross key" simultaneously, turn the Power off.

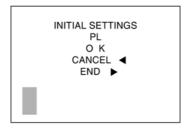


• Step 5. Set the INITIAL SETTING: (Refer to "CAUTION 1")

[Caution for befor settings]

Once "NONE(JAPAN)" (Area for Japan) or "P" (Area for Noth America) is selected with "INITIAL SETTINGS", other areas will not displayed even if "INITIAL SETTINGS" menu is displayed again, thus, the area can not be changed. Select the area carefully.

Select the area with pressing "[UP]/[DOWN] of Cross key", and then press the "[RIGHT] of Cross key".



The only set area is displayed, and then press the "[RIGHT] of Cross key" after confirmation.

(The unit is powered off automatically.)

Confirm the display of "PLEASE SET THE CLOCK" in English when the unit is turned on again.

• Step 6. CONFIRMATION:

The display shows "PLEASE SET THE CLOCK" when turn the Power on again.

When the unit is connected to PC with USB cable, it is detected as removable media.

(When the "GT" or "GK" model suffix is selected, the display shows "PLEASE SET THE CLOCK" in Chinese.)

- 1) As for your reference Default setting condition is given in the following table.
- Default setting (After "INITIAL SETTINGS")

	MODEL	VIDEO OUTPUT	LANGUAGE	DATE	REMARKS
a)	DMC-FX33 (Japan domestic model)	NTSC	Japanese	Year/Month/Date	
b)	DMC-FX33P/PC/PL	NTSC	English	Month/Date/Year	
c)	DMC-FX33E/EB/EG/GC/GN/SG	PAL	English	Date/Month/Year	
d)	DMC-FX33EF	PAL	French	Date/Month/Year	
e)	DMC-FX33EE	PAL	Russian	Date/Month/Year	
,	DMC-FX33GK	PAL	Chinese (simplified)	Year/Month/Date	
g)	DMC-FX33GT	NTSC	Chinese (traditional)	Year/Month/Date	
h)	DMC-FX33GD	NTSC	Korean	Year/Month/Date	

Specifications

Digital Camera: Information for your safety

Power Source: DC 5.1 V

Power Consumption: 1.6 W (When recording) 0.8 W (When playing back)

Camera effective pixels: 8 100 000 pixels

Image sensor: 1/2.5" CCD, total pixel number 8,320,000 pixels, Primary color

Optical 3.6× zoom, f=4.6 mm to 16.4 mm (35 mm film camera

equivalent: 28 mm to 100 mm)/F2.8 to F5.6

Digital zoom: Max. 4× Extended optical zoom: Max. 5.7×

Focus: Normal/Macro/Face detection/5-area-focusing/3-area-focusing

(High speed)/1-area-focusing (High speed)/1-area-focusing/

Spot-focusing

Normal: 50 cm (1.64 feet) to ∞ Focus range:

Macro/Intelligent auto/Motion picture/Clipboard mode: 5 cm

(0.16 feet) (Wide)/30 cm (0.98 feet) (Tele) to ∞

Scene mode: There may be differences in the above settings. Electronic shutter+Mechanical shutter

Shutter system:

Motion picture

recording: When the aspect ratio setting is [4:3]

640×480 pixels (30 frames/second, 10 frames/second, only

when using a Card)

320×240 pixels (30 frames/second, 10 frame/second)

When the aspect ratio setting is [16.9]

848×480 pixels (30 frames/second, 10 frames/second, only

when using a Card)

With audio

Burst recording

3 pictures/second (Normal), Approx. 2 pictures/second Burst speed:

Number of recordab

Max. 7 pictures (Standard), max. 4 pictures (Fine), Depends pictures:

on the remaining capacity of the built-in memory or the card

(Performance in burst recording is only with SD Memory Card/ SDHC Memory Card. MultiMediaCard performance will be

Hi-speed burst

Burst speed: Approx. 7 pictures/second

Number of recordable

pictures: When using the built-in memory: Approx. 15 pictures

(immediately after formatting) When using a Card: Max. 100 pictures (differs depending on

the type of Card and the recording conditions)

ISO sensitivity: AUTO/

100/200/400/800/1250/1600

[HIGH SENS.] mode: 1600 to 6400

8 seconds to 1/2000th of a second Shutter speed:

[STARRY SKY] mode: 15 seconds, 30 seconds, 60 seconds Motion picture mode: 1/30th of a second to 1/13000th of a

White balance: Auto white balance/Daylight/Cloudy/Shade/Halogen/White set

Exposure (AE): Program AE

Exposure compensation (1/3 EV Step, -2 EV to +2 EV)

Multiple Meterina mode:

2.5" low-temperature polycrystalline TFT LCD LCD monitor:

(Approx. 207,000 pixels) (field of view ratio about 100%)

Flash range: [ISO AUTO] Flash:

Approx. 60 cm (1.97 feet) to 6.3 m (20.7 feet) (Wide) AUTO, AUTO/Red-eye reduction, Forced ON (Forced ON/

Red-eye reduction), Slow sync./Red-eye reduction,

Forced OFF

Microphone: Monaural Monaural Speaker:

Built-in Memory (Approx. 27 MB)/SD Memory Card/SDHC Memory Card/MultiMediaCard (Still pictures only) Recording media:

Picture size

Still picture:

When the aspect ratio setting is [4.3] 3264×2448 pixels, 2560×1920 pixels, 2048×1536 pixels,

1600×1200 pixels, 640×480 pixels When the aspect ratio setting is [3:2]

3264×2176 pixels, 2560×1712 pixels. 2048×1360 pixels

When the aspect ratio setting is [16.9]

3264×1840 pixels, 2560×1440 pixels, 1920×1080 pixels

When the aspect ratio setting is [4:3]

640×480 pixels (Only when using a Card), 320×240 pixels When the aspect ratio setting is [16:9]

848×480 pixels (Only when using a Card)

Quality: Recording file format

Motion pictures:

Still Picture: JPEG (based on "Design rule for Camera File system", based on "Exif 2.21" standard)/DPOF corresponding

JPEG (based on "Design rule for Camera File system", based Picture with audio:

on "Exif 2.21" standard)+"QuickTime" (picture with audio)

"QuickTime Motion JPEG" (motion pictures with audio) Motion pictures:

Interface

Digital: "USB 2.0" (Full Speed)

Analog

video/audio: NTSC/PAL Composite (Switched by menu),

Audio line output (monaural)

Terminal

[AV OUT/DIGITAL]: Dedicated jack (8 pin)

[DC IN]: Dedicated jack

Dimensions: Approx. 94.9 mm (W)×51.9 mm (H)×22.0 mm (D)

[3 3/4" (W)×2 (H)×7/8" (D)] (excluding the projecting parts)

Mass (Weight): Approx. 132 g/4.66 oz (excluding card and battery),

Approx. 154 g/5.43 oz (with card and battery)

Operating temperature: 0 °C to 40 °C (32 °F to 104 °F)

Operating humidity: 10% to 80%

Battery Charger

(Panasonic DE-A39B): Information for your safety

Input: 110 V to 240 V~50/60 Hz, 0.2 A

Output: CHARGE 4.2 V === 0.8 A

Equipment mobility: Movable

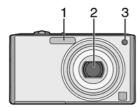
Battery Pack

DMW-BCE10PP): Information for your safety

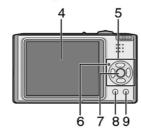
Voltage/capacity: 3.6 V, 1000 mAh

5 Location of Controls and Components

Names of the Components



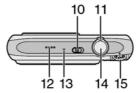
- 1 Flash
- 2 Lens
- Self-timer indicator AF assist lamp



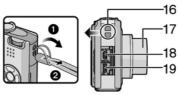
- 4 LCD monitor
- 5 Cursor buttons
 - √Self-timer button
 - ▼/[REV] button
 - ►/Flash setting button
 - ▲/Exposure compensation/ Auto bracket / White balance fine adjustment / Backlight compensation in intelligent
- 6 Status indicator
- 7 [MENU/SET] button

auto mode button

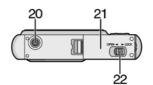
- 8 [DISPLAY/LCD MODE] button
- 9 [FUNC]/Delete button



- 10 Camera ON/OFF switch
- 11 Zoom lever
- 12 Speaker
- 13 Microphone
- 14 Shutter button
- 15 Mode dial



- 16 Strap eyelet
 - We recommend attaching the strap when using the camera to prevent it from dropping.
- 17 Lens barrel
- 18 [AV OUT/DIGITAL] socket
- 19 [DC IN] socket
- Always use a genuine Panasonic AC adaptor (DMW-AC5PP; optional).
- This camera cannot charge the battery even though the AC adaptor (DMW-AC5PP; optional) is connected to it



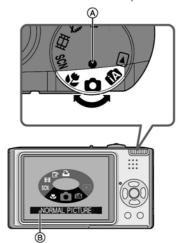
- 20 Tripod receptacle
 - When you use a tripod, make sure the tripod is stable when the camera is attached to it.
- 21 Card/Battery door
- 22 Release lever

About The Mode Dial

If you turn on this unit and then rotate the mode dial, you can not only switch between recording and playback but also switch to macro mode to take a close-up picture of a subject or to a scene mode that matches your recording purpose.

Switching the mode by rotating the mode dial

Align a desired mode with part (a). Rotate the mode dial slowly and surely to adjust to each mode. (Do not adjust it to parts where there is no mode.)



The above screen
 ® appears on the LCD monitor if the mode dial is rotated.
 The mode currently selected appears on the LCD monitor when the camera is turned on.

■ Basic

Normal picture mode

Use this mode for normal recording.

Intelligent auto mode

Use this mode to have the camera automatically handle all settings for taking pictures.

Playback mode

This mode allows you to play back recorded pictures.

■ Advanced

Macro mode

This allows you to take close-up pictures of a subject.

SCN Scene mode

This allows you to take pictures that match the scene being recorded.

Motion picture mode

This mode allows you to record motion pictures.

Clipboard mode

Use this to take pictures, and play them back, as clipboard pictures.

Print mode

Use this to print pictures.

6 Service Mode

6.1. Error Code Memory Function

1. General description

This unit is equipped with history of error code memory function, and can be memorized 16 error codes in sequence from the latest. When the error is occurred more than 16, the oldest error is overwritten in sequence.

The error code is not memorized when the power supply is shut down forcibly (when the unit is powered on by the battery, the battery is pulled out) because the error code is memorized to FLASH ROM when the unit is powered off.

2. How to display

The error code can be displayed by the following procedure:

Before perform the error code memory function, connect the AC adaptor or insert the battery.

(Since this unit has built-in memory, this error code memory function can be performed without inserting SD memory card.)

• 1. The temporary cancellation of initial setting:

Set the mode dial to "[Normal picture mode] (Red camera mark)".

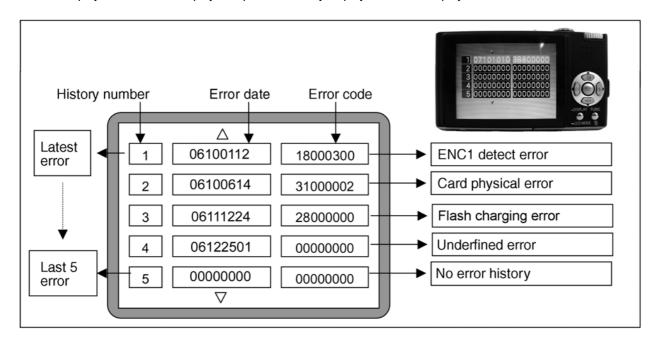
While keep pressing [DISPLAY] and "[UP] of Cross key" simultaneously, turn the Power on.

• 2. The display of error code:

Press [DISPLAY], [MENU] and "[LEFT] of Cross key" simultaneously with the step 1 condition.

The display is changed as shown below when the above buttons is pressed simultaneously.

Normal display → Error code display → Operation history display → Normal display →



Example of Error Code Display

• 3. The change of display:

The error code can be memorized 16 error codes in sequence, however it is displayed 5 errors on the LCD. Display can be changed by the following procedure:

"[UP] or [DOWN] of Cross key": It can be scroll up or down one.

"[LEFT] or [RIGHT] of Cross key": It can be display last 5 error or another 5 error.

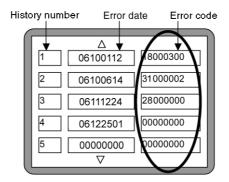
• 4. How to read the error date:

The error date code is displayed from the left in order at the year, month, day, time.

Error date information is acquired from "Clock setting" information when the error occurs. When the clock is not setting, it is displayed as "00000000".

• 5. How to read the error code:

One error code is displayed for 8 bit, the contents of error codes is indicated the table as shown below.



Attribute	Main item	Sub item	Error	code	Contents (Upper)	
			High 4 bits	Low 4 bits	Check point (Lower)	
ENS	Lens drive	OIS	18*0	1000	PSD (X) error. Hall element (X axis) position detect error in OIS unit.	
					OIS Unit	
				2000	PSD (Y) error. Hall element (Y axis) position detect error in OIS unit.	
					OIS Unit	
				3000	GYRO (X) error. Gyro (IC7101: X axis) detect error on Main P.C.B	
					IC7101 (Gyro element) or IC6001 (VENUS 3)	
				4000	GYRO (Y) error. Gyro (IC7101: Y axis) detect error on Main P.C.B	
					IC7101 (Gyro element) or IC6001 (VENUS 3)	
				5000	MREF error (Reference voltage error).	
					IC7001 (LENS drive) or IC6001 (VENUS 3)	
				6000	Drive voltage (X) error.	
					VENUS 3 AD value error, LENS Unit, LENS flex breaks etc.	
				7000	Drive voltage (Y) error.	
					VENUS 3 AD value error, LENS Unit, LENS flex breaks etc.	
		C.B./Zoom	1	0100	HP Low detect error (C.B. encoder (full retract) always Low detect).	
					FP9802-(31,33) signal line or IC6001 (VENUS 3)	
				0200	HP High detect error (C.B. encoder (full retract) always High detect).	
					FP9802-(32,34) signal line or IC6001 (VENUS 3)	
				0300	ENC1 detect error (C.B. motor encoder detect error).	
					FP9802-(31) signal line or IC6001 (VENUS 3)	
				0400	ENC2 detect error (C.B. motor encoder detect error).	
					FP9802-(33) signal line or IC6001 (VENUS 3)	
		Focus	1	0001	HP Low detect error (Focus encoder always Low detect error).	
					FP9802-(3) signal line or IC6001 (VENUS 3)	
				0002	HP High detect error (Focus encoder always High detect error).	
					FP9802-(2) signal line or IC6001 (VENUS 3)	
		Lens	18*1	0000	Power ON time out error.	
					Lens drive system	
			18*2	0000	Power OFF time out error.	
					Lens drive system	
	Adj.History	OIS	19*0	2000	OIS adj. Yaw direction amplitude error (small)	
				3000	OIS adj. Pitch direction amplitude error (small)	
				4000	OIS adj. Yaw direction amplitude error (large)	
				5000	OIS adj. Pitch direction amplitude error (large)	
				6000	OIS adj. MREF error	
				7000	OIS adj. time out error	
				8000	OIS adj. Yaw direction off set error	
				9000	OIS adj. Pitch direction off set error	
				A000	OIS adj. Yaw direction gain error	
				B000	OIS adj. Pitch direction gain error	
				C000	OIS adj. Yaw direction position sensor error	
				D000	OIS adj. Pitch direction position sensor error	
	ĺ	I	1			

Attribute	Main item	` ' ' '		Contents (Upper)	
			High 4 bits	Low 4 bits	Check point (Lower)
HARD	VENUS A/D	Flash	28*0	0000	Flash charging error.
					IC6001-(247) signal line or Flash charging circuit
	FLASH ROM	FLASH ROM	2B*0	0001	EEPROM read error
	(EEPROM	(EEPROM			IC6002 (FLASH ROM)
	Area)	Area)		0002	EEPROM write error
					IC6002 (FLASH ROM)
	SYSTEM	RTC	2C*0	0001	SYSTEM IC initialize failure error
					Communication between IC6001 (VENUS 3) and IC9101 (SYSTEM)
SOFT	CPU	Reset	30*0	0001	NMI reset
					Non Mask-able Interrupt
				0007	(30000001-30000007 are caused by factors)
	Card	Card	31*0	0001	Card logic error
					SD memory card data line or IC6001 (VENUS 3)
				0002	Card physical error
					SD memory card data line or IC6001 (VENUS 3)
				0004	Write error
					SD memory card data line or IC6001 (VENUS 3)
			39*0	0005	Format error
	CPU,	Stop	38*0	0001	Camera task finish process time out.
	ASIC hard			Communication between Lens system and IC6001 (VENUS 3)	
				0002	Camera task invalid code error.
					IC6001 (VENUS 3)
				0100	File time out error in recording motion image
					IC6001 (VENUS 3)
				0200	File data send error in recording motion image
					IC6001 (VENUS 3)
				0300	Single or burst recording brake time out.
	Operation	Power on	3B*0	0000	FLASHROM processing early period of camera during movement.
	Zoom	Zoom	3C*0	0000	Inperfect zoom lens processing
					Zoom lens
			35*0	0000	Software error
				 FFFF	(0-7bit : command, 8-15bit : status)
			35*1	0000	Though record preprocessing is necessary, it is not called.
			35*2	0000	Though record preprocessing is necessary, it is not completed.

About "*" indication in the above table:

The third digit from the left is different as follows.

- In case of 0 (example: 18**0**01000)

When the third digit from the left shows "0", this error occurred under the condition of INITIAL SETTINGS has been completed.

It means that this error is occurred basically at user side.

- In case of 8 (example: 18801000)

When the third digit from the left shows "8", this error occurred under the condition of INITIAL SETTINGS has been released.

(Example; Factory assembling-line before unit shipment, Service mode etc.)

It means that this error is occurred at service side.

• 6. How to returned to Normal Display:

Turn the power off and on, to exit from Error code display mode.

NOTE:

The error code can not be initialized.

7 Service Fixture & Tools

7.1. Service Fixture and Tools

The following Service Fixture and tools are used for checking and servicing this unit.

Resistor for Discharging ERG5SJ102	Infinity Lens (with Focus Chart) VFK1164TCM02	LIGHT BOX VFK1164TDVLB
An equivalent type of Resistor may be used.		* with DC Cable
TR Chart RFKZ0443	Lens Cleaning Kit (BK) VFK1900BK	Grease (for lens) VFK1829
	* Only supplied as 10 set/box.	
Furoyl grease (for focus motor) VFK1850	Driver (for mode dial installation screw) VFK1390	Dome type magnifying glass VFK1835

7.2. When Replacing the Main PCB

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

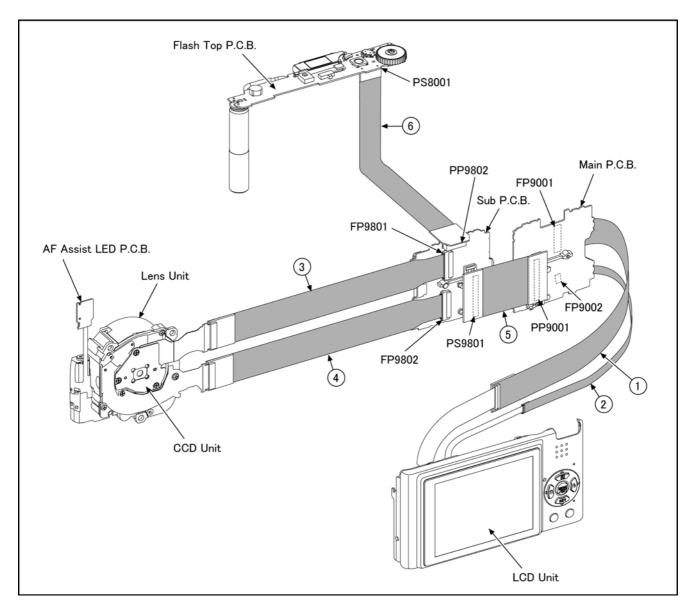
The adjustment instruction is available at "software download" on the "Support Information from NWBG/VDBG-PAVC" web-site in "TSN system", together with Maintenance software.

7.3. 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	RFKZ0363	FP9001 (MAIN) - LCD UNIT	19PIN 0.5 FFC
2	VFK1974	FP9002 (MAIN) - LCD UNIT	4PIN 0.5 FFC
3	RFKZ0416	FP9801 (SUB) - CCD UNIT	41PIN 0.3 FFC
4	RFKZ0416	FP9802 (SUB) - LENS UNIT	41PIN 0.3 FFC
5	RFKZ0445	PP9001 (MAIN) - PS9801 (SUB)	100PIN B to B
6	RFKZ0418	PP9802 (SUB) - PS8001 (FLASH TOP)	30PIN B to B

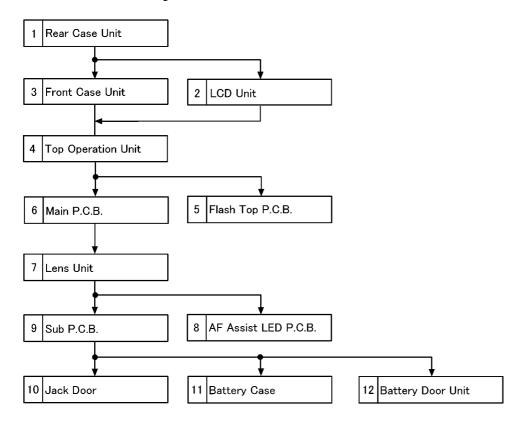


CAUTION-1. (When servicing FLASH TOP PCB)

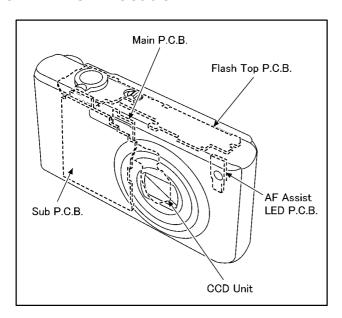
- 1. Be sure to discharge the capacitor on FLASH TOP PCB.
 - Refer to "HOW TO DISCHARGE THE CAPACITOR ON FLASH TOP PCB".
 - The capacitor voltage is not lowered soon even if the AC Cord is unplugged or the battery is removed.
- 2. Be careful of the high voltage circuit on FLASH TOP PCB.
- 3. DO NOT allow other parts to touch the high voltage circuit on FLASH TOP PCB.

8 Disassembly and Assembly Instructions

8.1. Disassembly Flow Chart



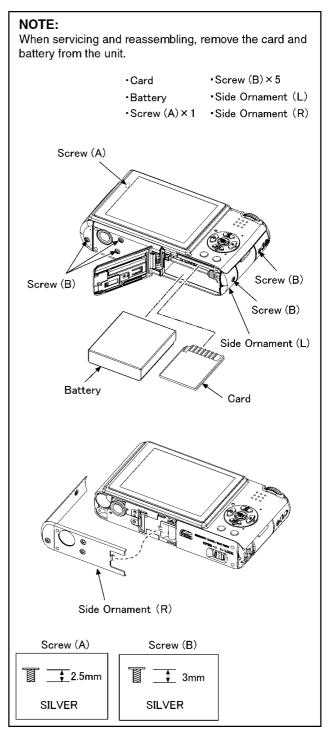
8.2. PCB Location



8.3. Disassembly Procedure

No.	Item	Fig	Removal
1	Rear Case Unit	(Fig. D1)	Card
		,	Battery
			1 Screw (A)
			5 Screws (B)
			Side Ornament (L)
			Side Ornament (R)
		(Fig. D2)	FP9001(Flex)
		(1 lg. D2)	FP9002(Flex)
			Rear Case Unit
2	LCD Unit	(Fig. D3)	4 Locking tabs
2	LCD OIIII	(Fig. D3)	LCD Unit
2	Front Coop Unit	(Fig. D4)	
3	Front Case Unit	(Fig. D4)	2 Locking tabs
	T 0 " 11 "	(E: DE)	Front Case Unit
4	Top Operation Unit	(Fig. D5)	PS8001(Connector)
		(5)	Top Operation Unit
5	Flash Top P.C.B.	(Fig. D6)	2 Screws (C)
			2 Locking tabs
		(Fig. D7)	Top Ornament Unit
			Power Knob
			5 Locking tabs
			Flash Cover
			Speaker
			Flash Top P.C.B.
		(Fig. D8)	NOTE (When Installing)
6	Main P.C.B.	(Fig. D9)	PP9001(Connector)
			Main P.C.B.
7	Lens Unit	(Fig. D10)	3 Screws (D)
			1 Screw (E)
			Frame Plate
			Tripod Fixing Plate
			FP9801(Flex)
			FP9802(Flex)
			1 Locking tab
			Lens Unit
8	AF Assist LED P.C.B.	(Fig. D11)	FP9901(Flex)
		,	AF Assist LED P.C.B.
9	Sub P.C.B.	(Fig. D12)	1 Screw (F)
		,	PCB Spacer
			Sub P.C.B.
10	Jack Door	(Fig. D13)	Jack Door Shaft
•		(Jack Door
11	Battery Case	(Fig. D14)	Battery Out Spring
		(Fig. D15)	AF Panel Light
		(. ig. 5 io)	Battery Case
12	Rattony Door Unit	(Fig. D16)	Battery Door Shaft
12	Battery Door Unit	(Fig. D16)	Battery Door Spring
			Battery Door Spring Battery Door Unit
		1	Dattery Door Unit

8.3.1. Removal of the Rear Case Unit

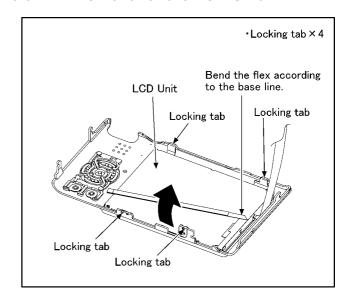


(Fig. D1)

•FP9001 (Flex) •FP9002 (Flex) Lock B Lock A FP9001 FP9002 Rear Case Unit **NOTE: (When Replacing)** When remove the flex, pull up the locking tab in the direction of arrow (1), and then remove the flex in the direction of arrow (2).

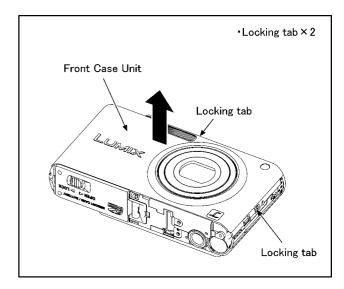
(Fig. D2)

8.3.2. Removal of the LCD Unit



(Fig. D3)

8.3.3. Removal of the Front Case Unit



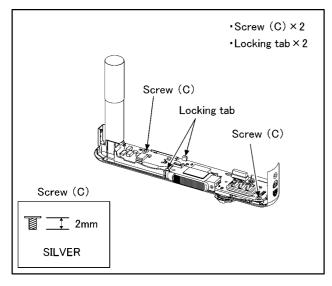
(Fig. D4)

8.3.4. Removal of the Top Operation Unit

IMPORTANT NOTICE: Take care not apply any bending load to the charging capacitor. It brings about the possibility of PCB and/or component damage on the Flash Top P.C.B. •PS8001(Connector) Top Operation Unit PS8001

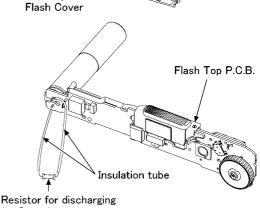
(Fig. D5)

8.3.5. Removal of the Flash Top P.C.B.



(Fig. D6)

IMPORTANT NOTICE: Take care not apply any bending load to the charging capacitor. It brings about the possibility of PCB and/or component damage on the Flash Top P.C.B. •Top Ornament Unit •POWER knob •Locking tab × 5 ·Flash Cover Locking tab Speaker Locking tab Top Ornament Unit Flash Top P.C.B. Speaker



(1k Ω /5W)

∕!∖ CAUTION

Be sure to discharge the capacitor on Flash Top P.C.B. before disassembling.

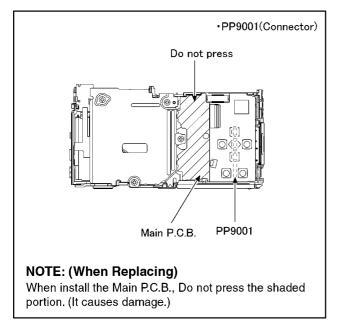
- 1. Remove the Flash Top P.C.B..
- 2. Put the insulation tube on the lead part of resistor (ERG5SJ102:1k Ω /5W).
- 3. Put the resistor between both terminals of capacitor unit for approx. 5 seconds.

(Fig. D7)

NOTE: (When Installing) Align the convex of power switch and groove of power knob. Convex of power switch Groove of power knob

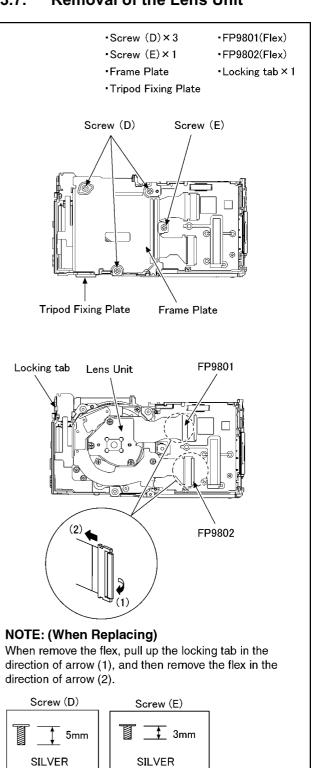
(Fig. D8)

8.3.6. Removal of the Main P.C.B.



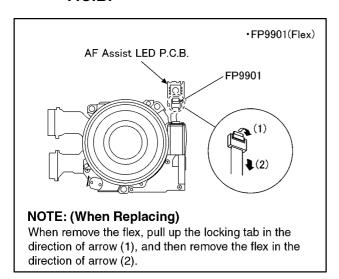
(Fig. D9)

8.3.7. Removal of the Lens Unit



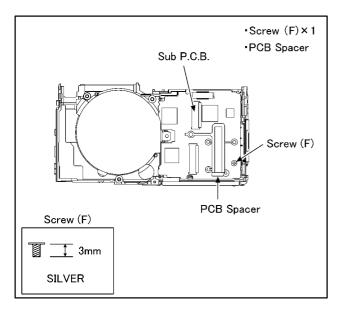
(Fig. D10)

8.3.8. Removal of the AF Assist LED P.C.B.



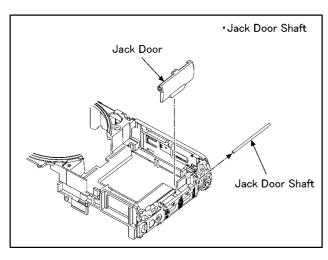
(Fig. D11)

8.3.9. Removal of the Sub P.C.B.



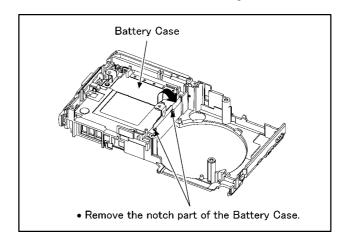
(Fig. D12)

8.3.10. Removal of the Jack Door

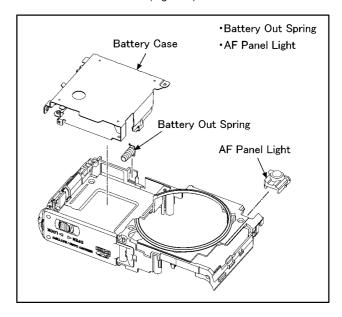


(Fig. D13)

8.3.11. Removal of the Battery Case

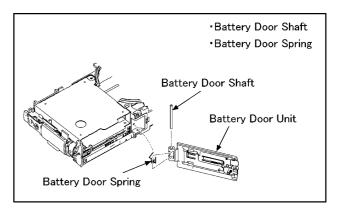


(Fig. D14)



(Fig. D15)

8.3.12. Removal of the Battery Door Unit



(Fig. D16)

NOTE: (When Assembling)

Be sure to confirm the following points when assembling.

- The Screw is tightened enough.
- Assembling conditions are fine. (No distortion, no illegalspace.)
- No dust and/or dirt on every Lens surfaces.
- LCD image is fine. (No dust and dirt on it, and no gradient images.)

8.4. Disassembly Procedure for the Lens

NOTE: When Disassembling and Assembling for the Lens

 To minimize the possibility of the CCD being dirt, perform disassemble and/or assemble under the condition of the CCD is being mounted.

Disassembling procedures for the CCD unit, refer to item 8.6

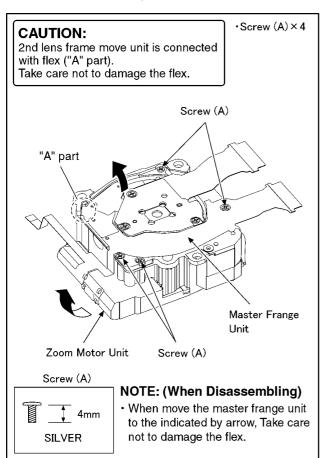
Take care that the dust and dirt are not entered into the lens.

In case of the dust is putted on the lens, blow off them by airbrush.

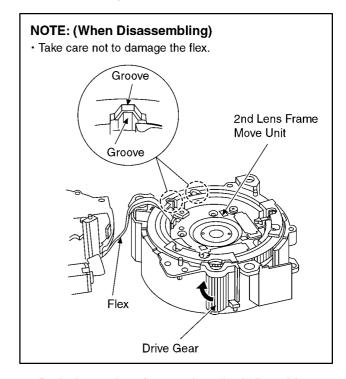
- 3. Do not touch the surface of lens.
- 4. Use lens cleaning KIT (BK)(VFK1900BK).
- 5. Apply the grease (VFK1829) to the point where is shown to" Grease apply" in the figure.
 - When the grease is applied, use a toothpick and apply thinly.
- 6. When repair the fixed frame, drive frame and direct frame, must be unit exchange.

8.4.1. Zoom Motor Unit, Master Frange Unit and 1st Lens Frame/2nd Lens Frame Move Unit

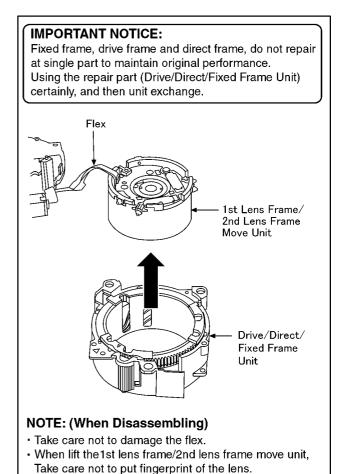
- 1. Unscrew the 4 screws (A).
- 2. Remove the zoom motor unit to the indicated by arrow.
- 3. Move the master frange unit to the indicated by arrow.



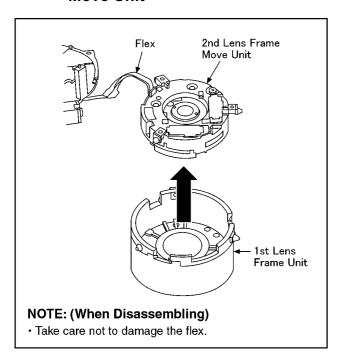
4. Turn the drive gear to the indicated by arrow fully.



5. Push the 1st lens frame unit to the indicated by arrow from lens side, and then remove the unit of 1st lens frame/2nd lens frame move unit from the fixed/drive/direct frame unit.



8.4.2. Removal of the 2nd Lens Frame Move Unit



8.5. Assembly Procedure for the Lens

8.5.1. Phase alignment of the Direct Frame and Drive Frame Unit

- Insert the shading sheet to drive frame.
 (When insert the shading sheet, so that the luster side facing to subject side)

 Align the Δ mark of direct frame to the groove in the back side of Δ mark of drive frame, and then install the direct frame to drive frame.

 Δ mark
 Direct Frame
 Shading sheet
 Groove
 Δ mark
 Drive Frame
- Turn rhe direct frame in the direction of an arrow (about 1cm: 0.4 in.), and then align the phase so that six groove places to be aligned.

 Groove of Direct Frame

 Groove of Drive Frame Unit

 Direct Frame

 Drive Frame

8.5.2. Phase alignment of the Drive/Direct Unit and Fixed Frame

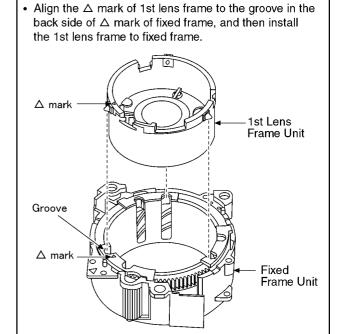
Align the Δ mark, and then install the drive/direct frame unit to fixed frame unit. Drive/Direct Frame Unit Δ mark Drive Gear NOTE: (When Assembling)

• With aligning the phase of the drive/direct frame unit,

frame unit firmly.

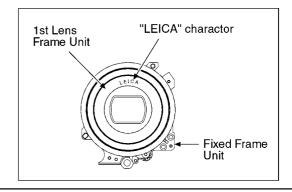
confirm the gear of drive unit is engaged with the fixed

8.5.3. Assembly for the 1st Lens Frame Unit



FRONT VIEW

• Install the 1st lens frame unit so that the "LEICA" charactor may become the position of the figure below.



8.5.4. Assembly for the Zoom Motor Unit, Master Frange Unit and 2nd Lens Frame Move Unit

NOTE: (When Assembling)

- Take care not to damage the flex.
- Refer to "THE APPLYMENT OF GREASE METHOD" when installing the master flange unit.

• Turn the Drive Gear in the direction of an arrow, and then confirm the lens shutter is closed.

Shutter

Drive Gear

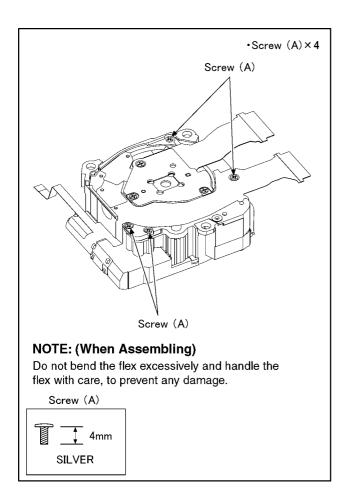
Convex

Hole

Zoom Motor Unit

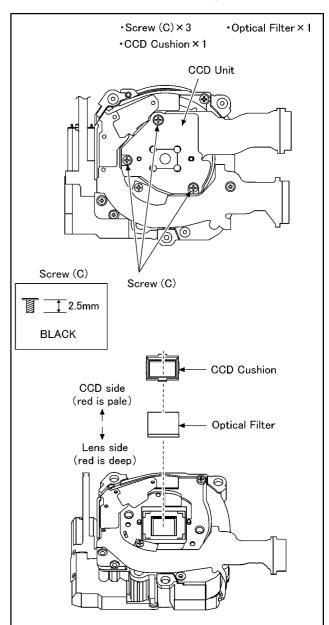
NOTE: (When Assembling)

• Align the convex of fixed frame unit and hole of zoom motor unit, and then install them.



8.6. Removal of the CCD Unit

To prevent the CCD unit from catching the dust and dirt, do not remove the CCD unit except for replacing.



NOTE: (When Assembling)

Definitions of mount side of Optical filter.

- *Set the optical filter under the condition of reflecting the fluorescent lamp can be seen by your eyes.
- *Although depth of the red color may be changed in accordance with seeing angle, compare the deepest red color in both sides to define each side.

Lens side: red color is deeper than the other side.

CCD side: red color is paler than the other side.

It can be easy to confirm the red color density on the blue paper.

*The optical filter might stuck to CCD unit.

When replace the CCD unit, remove the optical filter, and then install it with CCD unit.

8.7. The Applyment of Grease Method

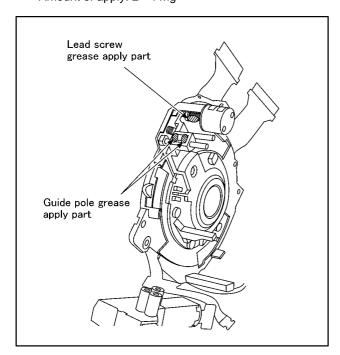
The grease apply point of lens unit are as follows. Apply grease additionally in the specified position if necessary. When the grease is applied, use a toothpick and apply thinly.

• Lead screw

Grease: VFK1850 (Furoyl type)Amount of apply: 2 - 4 mg

• Guide pole

- Grease: VFK1829 - Amount of apply: 2 - 4 mg



9 Measurements and Adjustments

9.1. Matrix Chart for Replaced Part and Necessary Adjustment

The relation between Replaced part and Necessary Adjustment is shown in the following table.

When concerned part is replaced, be sure to achieve the necessary adjustment(s).

As for Adjustment condition/procedure, consult the "Adjustment Manual" which is available in Adjustment software.

The Adjustment software is available at "TSN Website", therefore, access to "TSN Website" at "Support Information from NWBG/VDBG-PAVC".

NOTE:

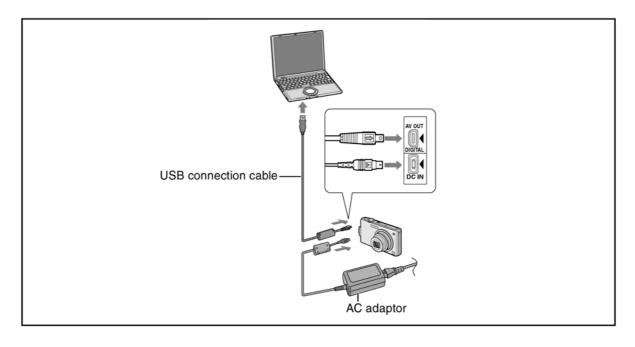
After adjustments have been terminated, make sure to achieve "INITIAL SETTINGS".

		Replaced Part					
Adjustment Item		Main P.C.B.	VENUS (IC6001)	Flash-ROM (IC6002)	Lens Part (Excluding CCD)	CCD Unit	
Camera Section	OIS hall element adjustment (OIS)	0	0	0	0	_	
	Back focus adjustment (BF)	0	0	0	0	O*1	
	Shutter adjustment (SHT)	0	0	0	0	0	
	ISO sensitivity adjustment (ISO)	0	0	0	0	0	
	AWB adjustment High brightness coloration inspection (WBL)	0	0	0	0	0	
	CCD white scratch compensation (WKI)	0	0	0	-	O*1	
	CCD black scratch compensation (BKI)	0	0	0	_	O*1	

^{*1:} This adjustment is necessary, not only replacing CCD unit but also removing it from the lens unit.

NOTE:

*There is no LCD adjustment in this model.



10 Maintenace

10.1. Cleaning Lens and LCD Panel

Do not touch the surface of lens and LCD Panel with your hand.

When cleaning the lens, use air-Blower to blow off the dust.

When cleaning the LCD Panel, dampen the lens cleaning paper with lens cleaner, and the gently wipe the their surface.

Note:

The Lens Cleaning KIT; VFK1900BK (Only supplied as 10 set/Box) is available as Service Aid.

Service Manual

Diagrams and Replacement Parts List

Digital Camera

Model No.

DMC-FX33P	DMC-FX33EG
DMC-FX33PC	DMC-FX33GC
DMC-FX33PL	DMC-FX33GD
DMC-FX33E	DMC-FX33GK
DMC-FX33EB	DMC-FX33GN
DMC-FX33EE	DMC-FX33GT
DMC-FX33EF	DMC-FX33SG

Vol. 1 Colour

(S).....Silver Type

(K).....Black Type (T)....Brown Type (only P/E/EE/EF/EG)

(W)......White Type (only GC/GK/GT/SG)

(P).....Pink Type (only EB/GC/GK/GT/SG) (A)....Blue Type (only P/PC/PL/E/EE/EG)

Table of contents

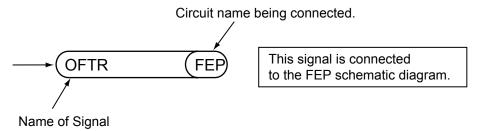
S1. About Indication of The Schematic Diagram	S-1
S1.1. Important Safety Notice	S-1
S2. Voltage Chart	S-2
S2.1. Flash Top P.C.B	
S3. Block Diagram	
S3.1. Overall Block Diagram	S-3
S4. Schematic Diagram	
S4.1. Interconnection Diagram	
S4.2. Flash Top Schematic Diagram	S-5
S4.3. AF Assist LED Schematic Diagram	S-6
S4.4. CCD Flex Schematic Diagram	S-6
S4.5. Lens Flex Schematic Diagram	
S5. Print Circuit Board	
S5.1. Flash Top P.C.B	S-8
S5.2. AF Assist LED P.C.B.	S-9

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:



S5.3. CCD Flex P.C.B	
S6. Replacement Parts List	S-11
S7. Exploded View	S-18 S-19

S2. Voltage Chart

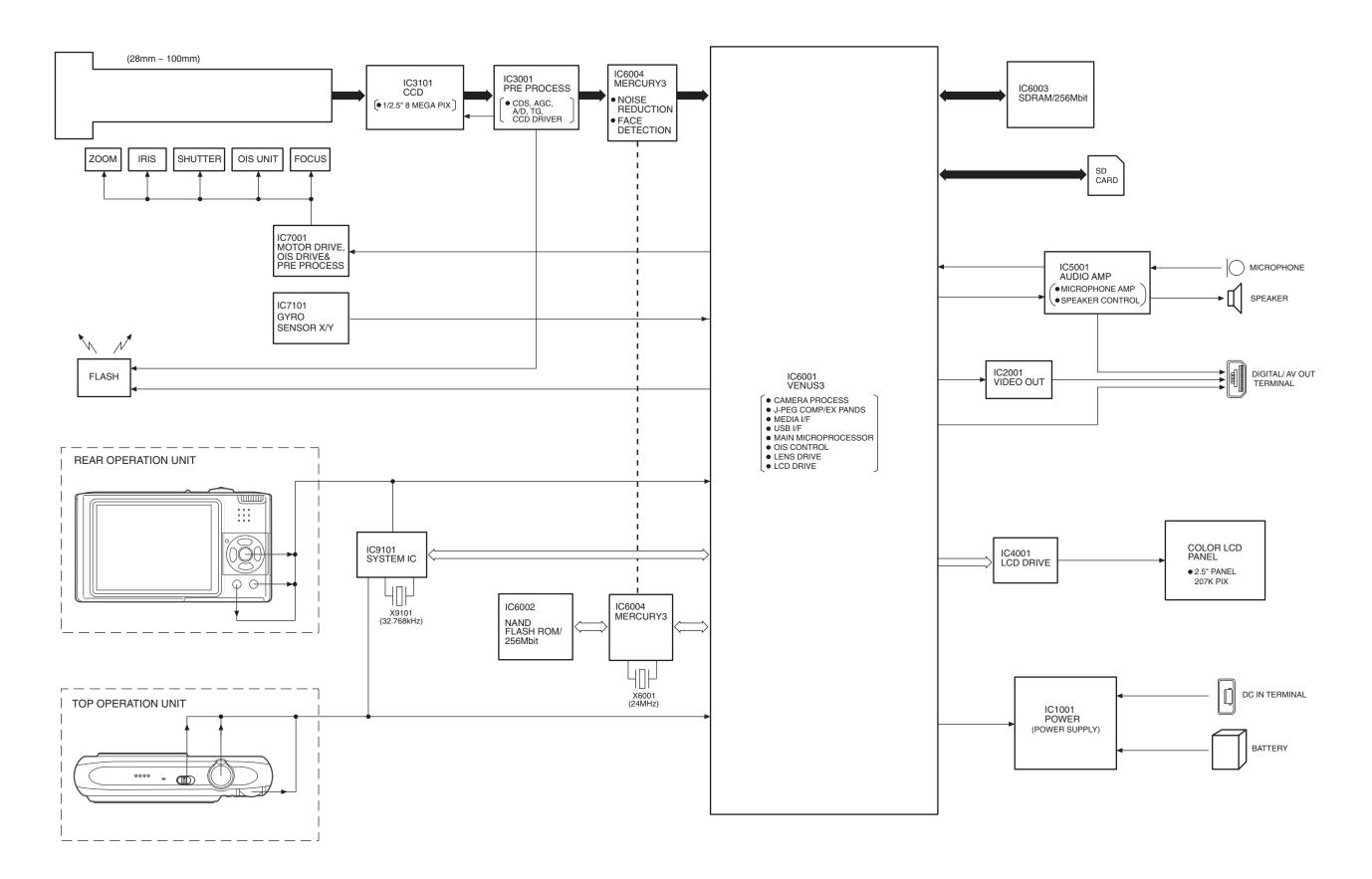
Note) Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

S2.1. Flash Top P.C.B.

REF No.	PIN No.	POWER ON
IC8001	1	3
IC8001	2	0
IC8001	3	
IC8001	4	0
IC8001	5	4.8
ı		
		I

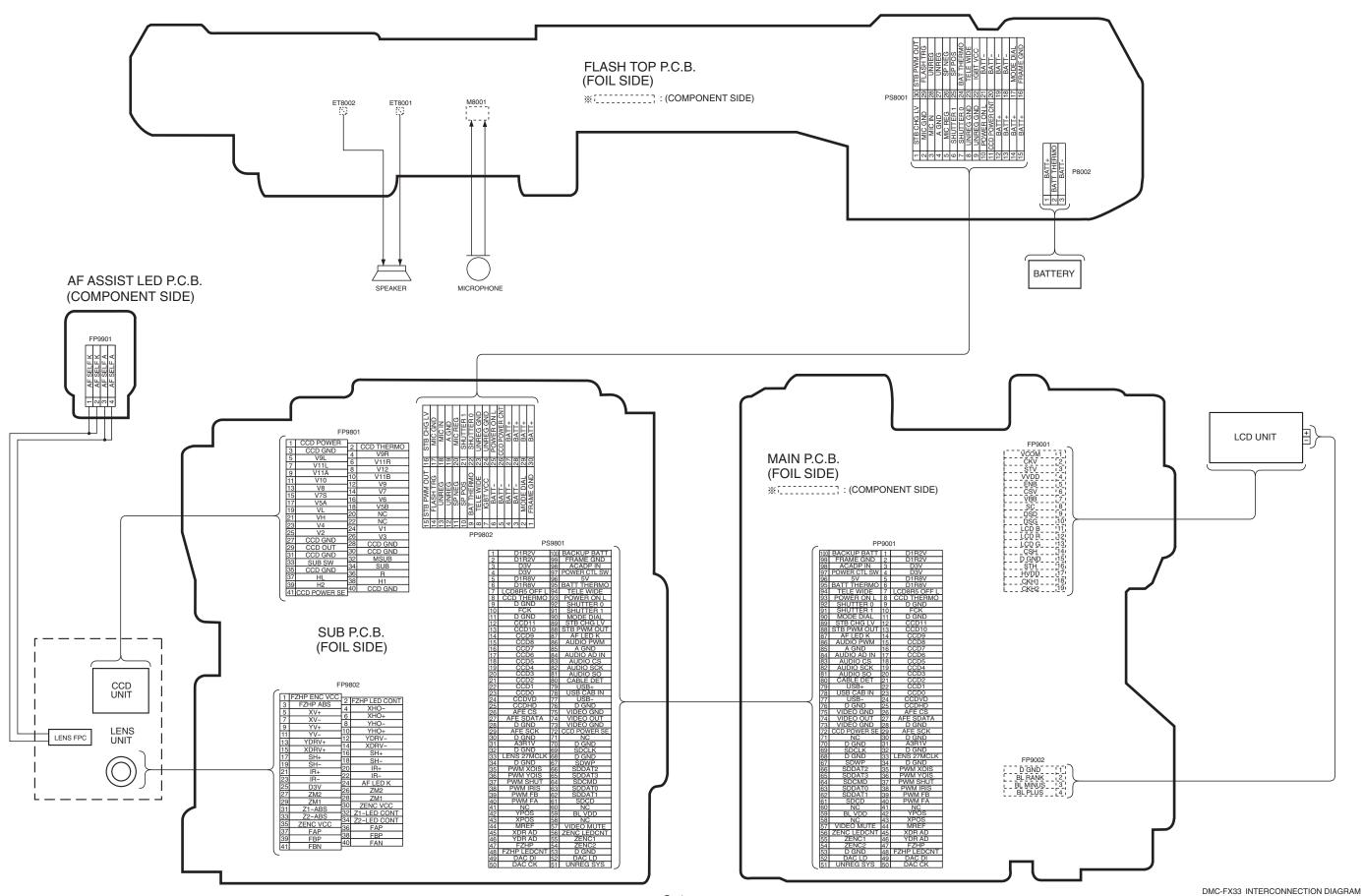
S3. Block Diagram

S3.1. Overall Block Diagram

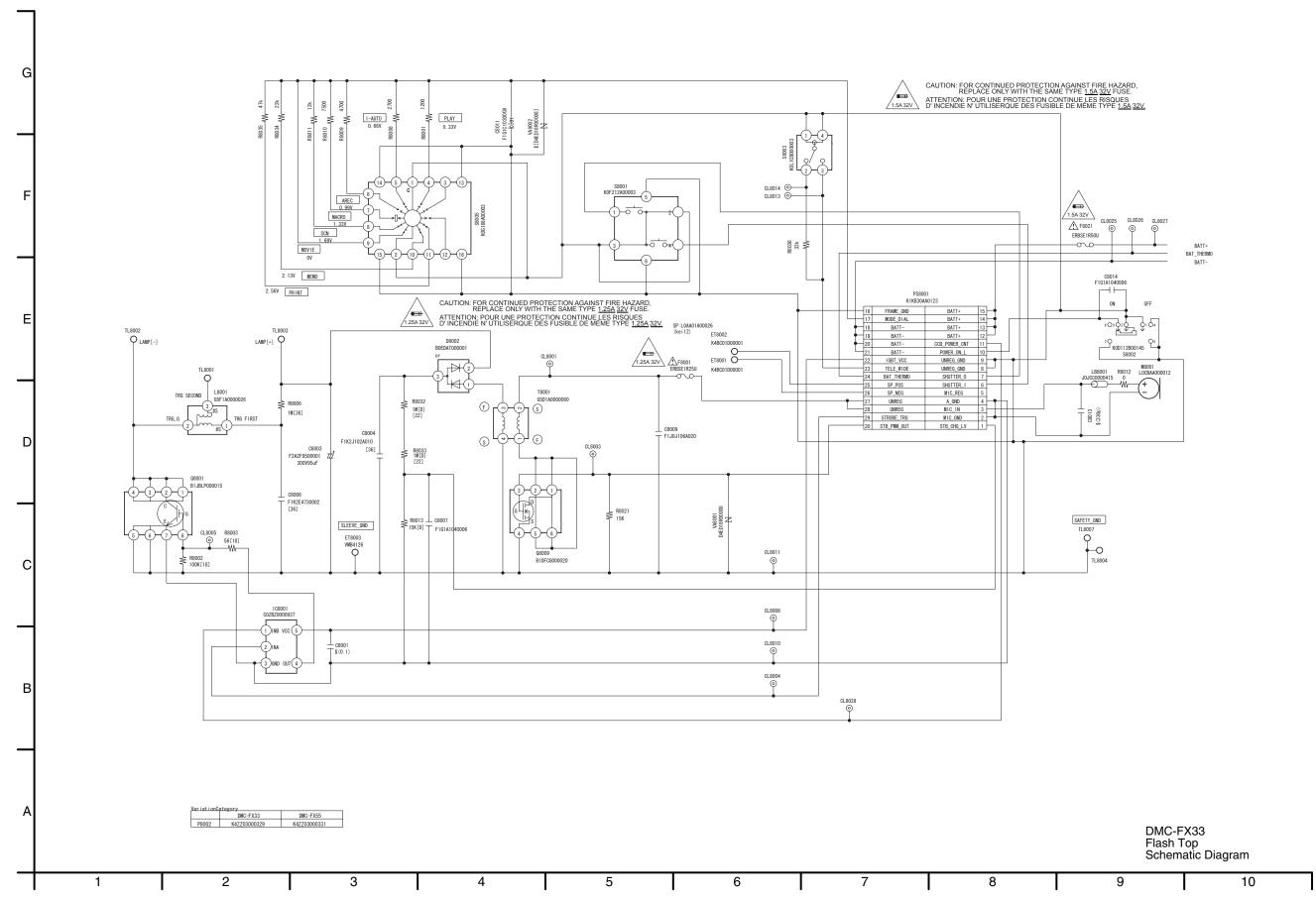


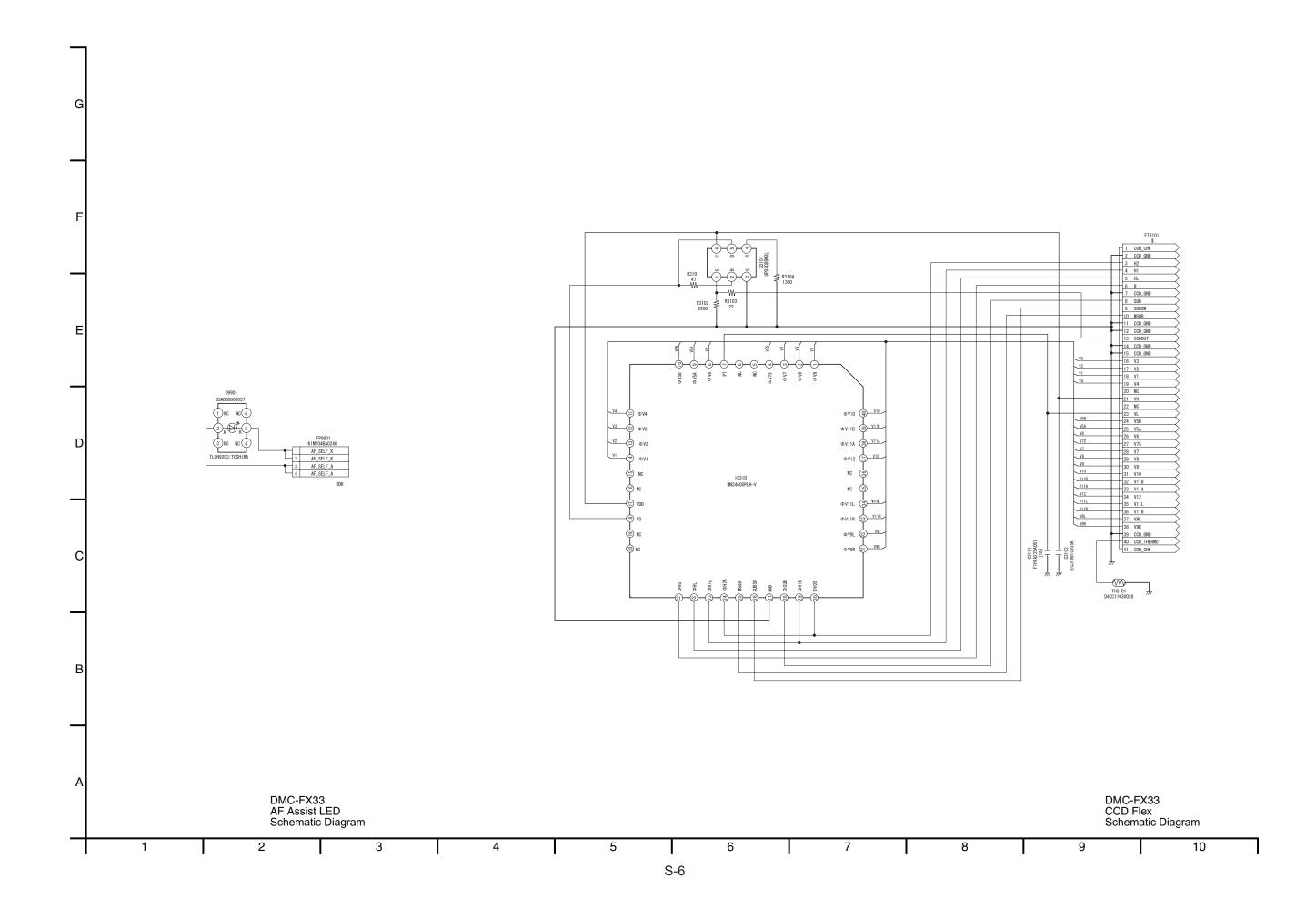
S4. Schematic Diagram

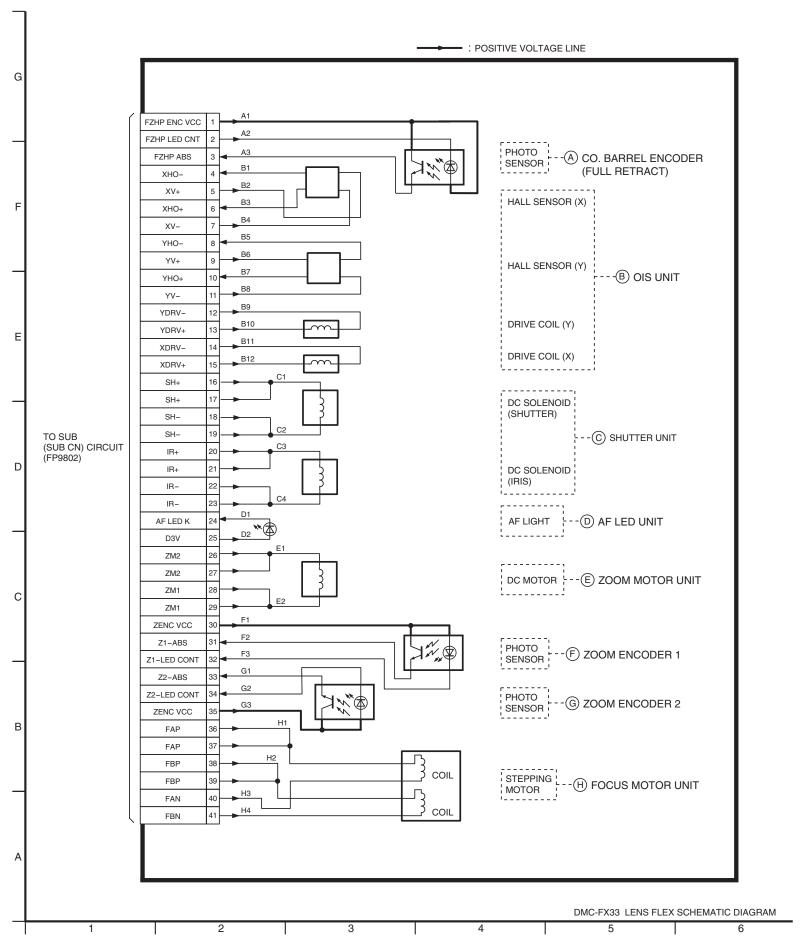
S4.1. Interconnection Diagram



S-4

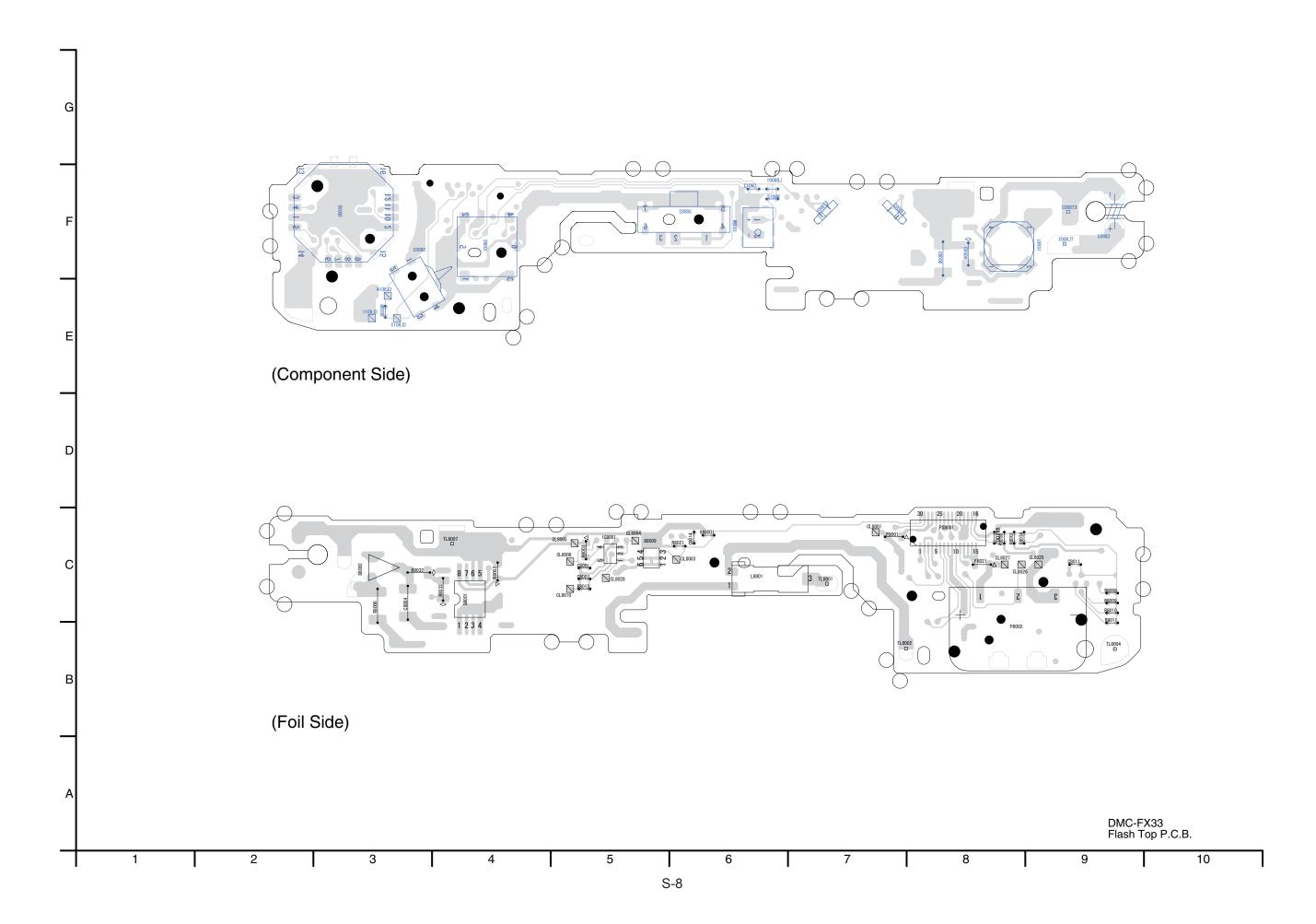


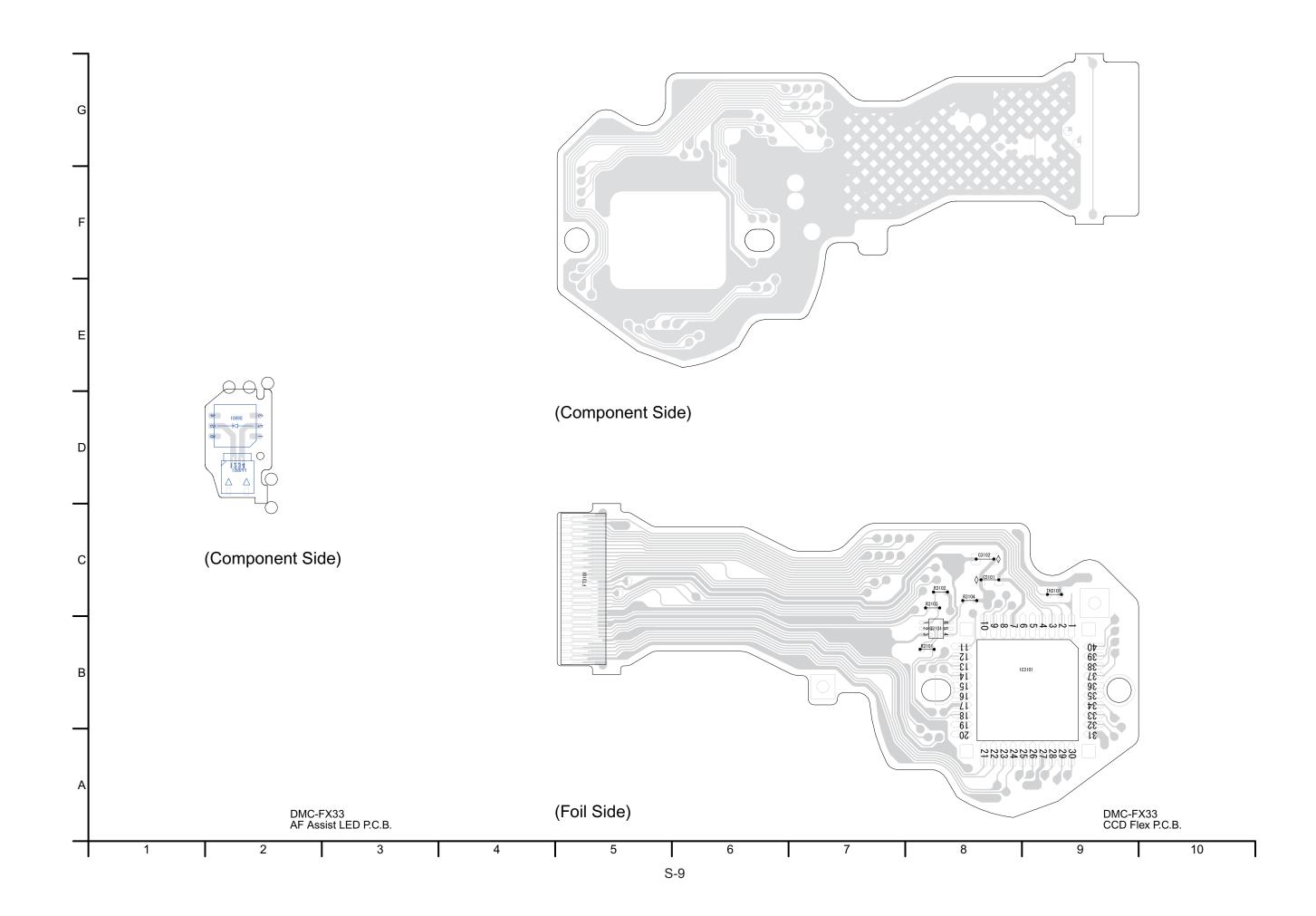


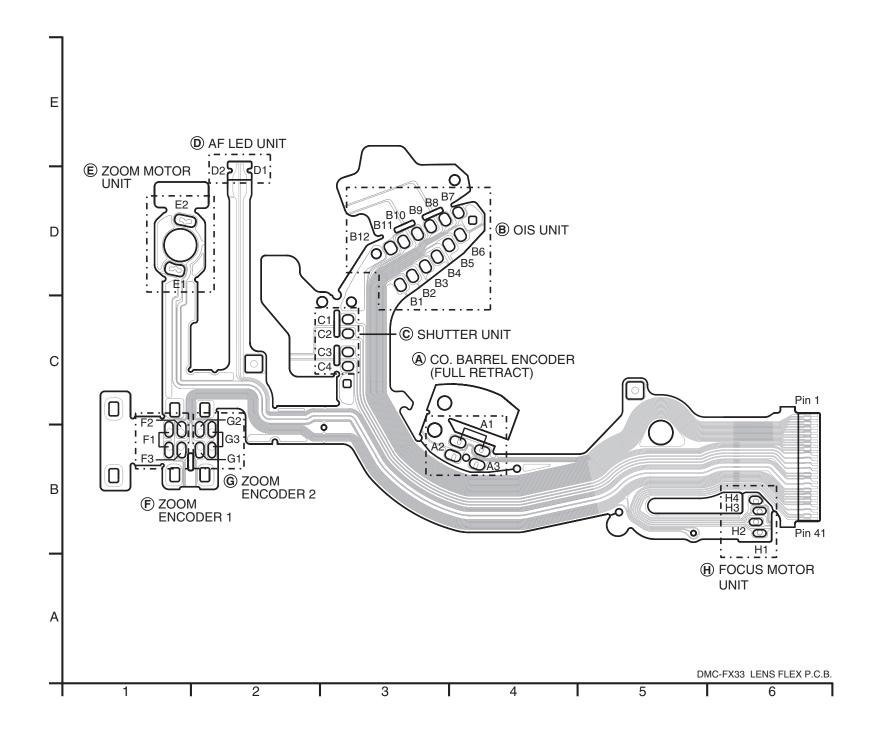


S5. Print Circuit Board

S5.1. Flash Top P.C.B.







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.

Definition of Parts supplier:

1. Parts marked with [MBI] in the remarks column are supplied from "Matsushita Battery Industrial Co., Ltd."

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	s Rem
		P.C.B. LIST							
		F.O.D. LIOT							
	VEDECC 12	FLACUTOR F 2 7		(DTL) = 0 D					
##	VEP58042A	FLASH TOP P.C.B.	1	(RTL) E.S.D.					
##	VEP59046A	AF ASSIST LED P.C.B.	1	(RTL) E.S.D.					
##	VEK0L48	CCD UNIT	1	E.S.D.					
		INDIVIDUAL PARTS							
C8003	F2A2F9500001	E.CAPACITOR 300V 95U	1						
		ELEC. COMPONENTS							
					-				-
									-
									-
								L	
								L	
								L	
	<u> </u>								

DMC-FX33P/PC/PL/EB/EE/EF/EG/E/GC/GD/GK/GN/GT/SG VEP59046A / VEP58042A / VEK0L48

		30042A / VENUL40	_				I	L	
Ref.No.	Part No.	·	ocs		Ref.No.	Part No.	Part Name & Description	Po	cs Remarks
##	VEP58042A	FLASH TOP P.C.B.		(RTL) E.S.D.	R3101	ERJ2GEJ470	M.RESISTOR CH 1/16W 47		1
					R3102	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	_	1
C8004		C.CAPACITOR 630V 1000P	1		R3103	ERJ2GEJ220	M.RESISTOR CH 1/16W 22		1
C8006		C.CAPACITOR 250V 0.047U	1		R3104	ERJ2GEJ132	M.RESISTOR CH 1/16W 1.3K	_	1
C8007		C.CAPACITOR CH 10V 0.1U	1					_	
C8009		C.CAPACITOR CH 6.3V 10U	1		TH3101	D4CC11030026	NTC THERMISTORS	_	1
C8011		C.CAPACITOR CH 16V 0.01U	1					_	
C8014	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1					_	
								_	
D8002	B0EDAT000001	DIODE	1	E.S.D.				_	
			_					+	
ET8001		EARTH TERMINAL	1		-			-	
ET8002	K4BC01D00001	EARTH TERMINAL	1					+	
A =====			_					+	
		FUSE 32V 1.25A	1					+	
<u></u> F8021	ERBSE1R50U	FUSE 32V 1.5A	1					_	_
								_	_
IC8001	C0ZBZ0000937	IC	1	E.S.D.				_	_
								_	
L8001	G5F1A0000026	SURFACE MOUNTING HIGH-VOL	1					_	
1 8000	10.1000000	511 750			 			\downarrow	
LB8001	J0JCC0000415	HILÍER	1		 			\perp	
					l			1	
M8001	L0CBAA000012	MICROPHONE UNITS	1		 			1	
								1	
P8002	K4ZZ03000329	CONNECTOR 3P	1					\downarrow	
								1	
PS8001	K1KB30AA0123	CONNECTOR 30P	1						
Q8001	B1JBLP000015			E.S.D.				1	
Q8009	B1DFCG000020	TRANSISTOR	1	E.S.D.					
R8001		M.RESISTOR CH 1/16W 1.2K	1						
R8002		M.RESISTOR CH 1/10W 100K	1						
R8003	ERJ3GEYJ560	M.RESISTOR CH 1/10W 56	1						
R8006	ERJ8GEYJ105V	M.RESISTOR CH 1/8W 1M	1						
R8008	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1						
R8009	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1						
R8010	ERJ2GEJ752X	M.RESISTOR CH 1/16W 7.5K	1						
R8011	ERJ2GEJ123	M.RESISTOR CH 1/16W 12K	1						
R8012	D0YAR0000007	M.RESISTOR CH 1/16W 0	1						
R8013	ERJ2RHD153X	M.RESISTOR CH 1/16W 15K	1						
R8021	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1						
R8032	ERJ6RED105	M.RESISTOR CH 1/16W 1M	1						
R8033	ERJ6RED105	M.RESISTOR CH 1/16W 1M	1						
R8034	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1						
R8035	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1						
R8036	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1						
S8001	K0F212A00003	SWITCH	1					Ι	
S8002	K0D112B00145	SWITCH	1					T	
S8003	K0L1CB000003	SWITCH	1					T	
S8005	K0G188A00003	SWITCH	1						
								J	
T8001	G5D1A0000060	TRANSFORMER	1					Ι	
								Γ	
VA8001	D4ED18R00008	VARISTORS	1						
								Ι	
##	VEP59046A	AF ASSIST LED P.C.B.		(RTL) E.S.D.				J	
D9901	B3ADB0000057	DIODE	_1	E.S.D.				I	
								Ι	
FP9901	K1MY04BA0246	CONNECTOR 4P	1					Τ	
								T	
								J	
##	VEK0L48	CCD UNIT		E.S.D.				T	
								T	
C3101	F1H1A225A051	C.CAPACITOR CH 10V 2.2U	1					T	
C3102	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1					T	
								T	
Q3101	UP05C8B00L	TRANSISTOR	1	E.S.D.				t	1
								T	
						1		Ť	
								T	
					I B	•	•		

1	
VEPS9046A	
3 VEPS0045A	
1	
5	
6 VKF4160 JACK DOOR 1 1 7 VMB3982 BATTERY LOCK SPRING 1 9 VMB4020 BATTERY LOCK SPRING 1 1 1 1 VMP8989 BATTERY ODOR SPRING 1 1 1 VMP8989 FRAME 1 1 1 VMP8989 FRAME 1 1 1 1 VMP8989 SMTTERY DOOR SHAFT 1 1 1 1 VMP8989 BATTERY DOOR SHAFT 1 1 1 1 VMP8989 BATTERY DOOR SHAFT 1 1 1 1 VMP8989 BATTERY DOOR SHAFT 1 1 1 1 VMP8989 TOP OF READ SMTTERY DOOR SHAFT 1 1 1 1 VMP8989 TOP OF READ SMTTERY DOOR SHAFT 1 1 1 1 VMP8989 TOP OF READ SMTTERY DOOR SHAFT 1 1 1 1 VMP8989 TOP OF READ SMTTERY DOOR SHAFT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
7	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24 VYQ4121 MODE DIAL UNIT 1 25 ML421S/ZT BUTTON BATTERY 1 [MBI](B9801) 26 VGQ9282 PCB SPACER 1 27 VMP8780 TRIPOD 1 28 VMP8896 FRAME PLATE 1 29 VMP8991 SIDE-ORNAMENT L 1 30 VYK2F62 SIDE-ORNAMENT R 1 31 VYK2F80 FRONT CASE UNIT 1 (-K) 32 VYK2F80 FRONT CASE UNIT 1 (-K) 32 VYK2F81 FRONT CASE UNIT 1 (-W) 32 VYK2F84 FRONT CASE UNIT 1 (-W) 32 VYK2F84 FRONT CASE UNIT 1 (-W) 32 VYK2F84 FRONT CASE UNIT 1 (-W) 33 VYK2F91 REAR CASE UNIT 1 (-A) 33 VYK2F91 REAR CASE UNIT 1 (-K) 33 VYK2F92 REAR CASE UNIT 1 (-W) 33 VYK2F95 REAR CASE UNIT 1 (-P) 33	
25	
26 VGQ9282 PCB SPACER 1 27 VMP8780 TRIPOD 1 28 VMP8896 FRAME PLATE 1 29 VMP8901 SIDE-ORNAMENT L 1 30 VYK2F62 SIDE-ORNAMENT R 1 32 VYK2F79 FRONT CASE UNIT 1 (-K) 32 VYK2F80 FRONT CASE UNIT 1 (-T) 32 VYK2F82 FRONT CASE UNIT 1 (-W) 32 VYK2F83 FRONT CASE UNIT 1 (-W) 32 VYK2F84 FRONT CASE UNIT 1 (-P) 32 VYK2F81 FRONT CASE UNIT 1 (-P) 33 VYK2F94 FRAC CASE UNIT 1 (-R) 33 VYK2F991 REAR CASE UNIT 1 (-T) 33 VYK2F94 REAR CASE UNIT 1 (-T) 33 VYK2F95 REAR CASE UNIT 1 (-P) 33 VYK2F95 REAR CASE UNIT 1 (-P) 33-1 VGL1230 REAR PANEL LIGHT 1 35-1	
27	
28	
29	
30	
32	
32	
32	
32	
32	
32	
33	
33	
33	
33	
33	
33	
33-1	
33-2	
34 VYK2F97 LCD UNIT 1 35 VGK3353 MODE COLLAR 1 (-S) 35 VGK3367 MODE COLLAR 1 (-K) 35 VGK3369 MODE COLLAR 1 (-T) 35 VGK3371 MODE COLLAR 1 (-W) 35 VGK3370 MODE COLLAR 1 (-P) 35 VGK3368 MODE COLLAR 1 (-A) 36 VGQ9684 SHEET 1 37 VGQ9684 SHEET 1	
35	
35	
35	
35 VGK3370 MODE COLLAR 1 (-P) 35 VGK3368 MODE COLLAR 1 (-A) 36 VGQ9684 SHEET 1 37 VGQ9684 SHEET 1	
35 VGK3370 MODE COLLAR 1 (-P) 35 VGK3368 MODE COLLAR 1 (-A) 36 VGQ9684 SHEET 1 37 VGQ9684 SHEET 1	
35 VGK3368 MODE COLLAR 1 (-A) 36 VGQ9684 SHEET 1 37 VGQ9684 SHEET 1	
36 VGQ9684 SHEET 1 37 VGQ9684 SHEET 1	
38 V/GO9641 FPC SHFFT 1	
VO VOKOVTI II V OILLEI II	
B1 VHD1876 SCREW 1	
B2 VHD1876 SCREW 1	
B3 VHD1694 SCREW 1	
B4 VHD1564 SCREW 1	
B5 VHD1564 SCREW 1	
B6 VHD1915 SCREW 1	
B7 VHD1928 SCREW 1	
B8 VHD1928 SCREW 1	
B9 VHD1928 SCREW 1	
B10 VHD1928 SCREW 1	
B11 VHD1928 SCREW 1	
B12 XQN16+BJ5FN SCREW 1	
B13 XQN16+BJ5FN SCREW 1	
B14 XQN16+BJ5FN SCREW 1	

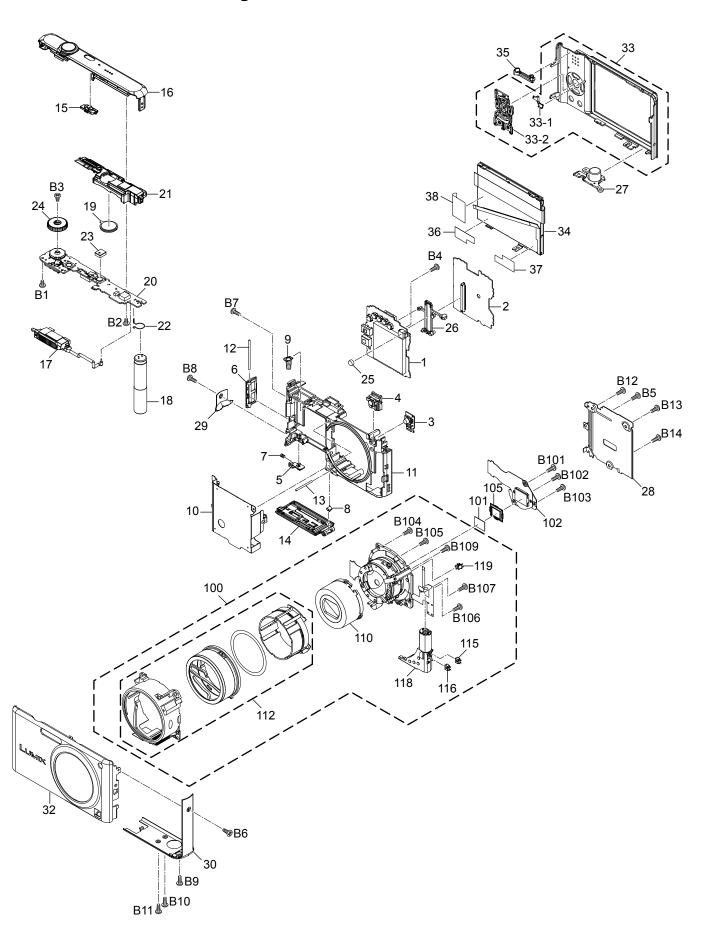
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
		r archamo a Boompaon	. 00	romano	11010.		r art rame a 2000 pro-		T Community
100		LENS UNIT (W/O CCD)	1						
101	VDL1921	OPTICAL FILTER	1						
102 105	VEK0L48 VMX3587	CCD UNIT CCD CUSHION RUBBER	1						
110	VXP2704	1ST LENS FRAME UNIT	1						
112	VXP2852	DIRECT/DRIVE/FIX FRAME U	1						
115	B3NAA0000091 B3NAA0000091	PHOTO SENSOR PHOTO SENSOR	1						
116 118	L6DA8BFC0002	ZOOM MOTOR	1						
119	B3NAA0000132	PHOTO SENSOR	1						
B101 B102		SCREW SCREW	1						
B102 B103		SCREW	1						
B104	XQN14+CJ4FJ	SCREW	1						
B105	XQN14+CJ4FJ	SCREW	1						
B106 B107		SCREW SCREW	1						
B109		SCREW	1						
								_	
-									
								-	
								_	
					<u> </u>				
								\vdash	
								\vdash	
								-	
								\vdash	
								_	
-									
<u> </u>	1						<u> </u>		I

⚠ 203 DE-A39BA BATTERY CHARGER 1 PL ⚠ 203 DE-A40AA BATTERY CHARGER 1 EE ⚠ 203 DE-A40BA BATTERY CHARGER 1 EE ⚠ 203 DE-A40CA BATTERY CHARGER 1 EE ⚠ 204 ———— BATTERY 1 (EE 205 K1HA08CD0013 USB CABLE WIPLUG 1 (EE 206 K1HA08CD0014 AV CABLE WIPLUG 1 (EE 207 VFC4090 HAND STRAP 1 (EE 208 VFF0377-S CD-ROM (OVERSEAS) 1 (EE 209 VPK3372 PACKING CASE 1 (-K 209 VPK3372 PACKING CASE 1 (-K 209 VPK3381 PACKING CASE 1 (-K 209 VPK3385 PACKING CASE 1 (-K 209 VPK3390 PACKING CASE 1 (-K 209 VPK3337 PACKING CASE 1 (-K 209 VPK3382 PACKING CASE 1 (-K 209 VPK33381 PACKING CASE 1 (-K	B,EF,EG,E,GN E,GC,GD,GK,SG IT EXCEPT P/PC) EXCEPT P,PC) EXCEPT P,PC EXCEPT	215 215 215 215 215	VQT1L12 VQT1L16 VQT1L19 VQT1L18 VQT1L17 RJA0078-1X K2CA2CA00020 K2CA2CA00027 K2CJ2DA00008 K2CT3CA00004 K2CQ2CA00006	Part Name & Description O/I SOFTWARE (GERMAN/FRENCH/ITALIAN/ DUTCH/SPANISH/PORTUGUESE) O/I SOFTWARE (SWEDISH/DANISH/POLISH/ CZECH/HUNGARIAN) O/I SOFTWARE (ENGLISH/ARABIC/PERSIAN/ CHINESE(TRADITIONAL)) O/I SOFTWARE (KOREAN) O/I SOFTWARE (CHINESE(SIMPLIFIED)) O/I SOFTWARE (CHINESE(SIMPLIFIED)) O/I SOFTWARE (CHINESE(SIMPLIFIED)) AC CORD WPLUG AC CORD WP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EG E GC,SG GD GK GT GD GK GT GB GK GT GB EB,GC,SG EE,EF,EG,E,GC,SG
⚠ 203 DE-A39BA BATTERY CHARGER 1 PL ⚠ 203 DE-A40AA BATTERY CHARGER 1 EE ⚠ 203 DE-A40BA BATTERY CHARGER 1 EE ⚠ 203 DE-A40CA BATTERY CHARGER 1 EE ⚠ 204 ———— BATTERY 1 (E 205 KIHA08CD0013 USB CABLE WIPLUG 1 (E 206 KIHA08CD0014 AV CABLE WIPLUG 1 (E 207 VFC4090 HAND STRAP 1 (E 208 VFF0377-S CD-ROM (OVERSEAS) 1 (E 209 VPK3372 PACKING CASE 1 (-S 209 VPK3372 PACKING CASE 1 (-K 209 VPK3381 PACKING CASE 1 (-K 209 VPK3385 PACKING CASE 1 (-K 209 VPK3394 PACKING CASE 1 (-K 209 VPK3387 PACKING CASE 1 (-K 209 VPK3387 PACKING CASE 1 (-K 209 VPK3388 PACKING CASE 1 (-K <t< td=""><td>L B,EF,EG,E,GN E,GC,GD,GK,SG IT EXCEPT P/PC) EXCEPT P,PC) EXCEPT P,PC LEG,E,GC,SG L</td><td>215 215 215 215 215 4. 216 4. 217 4. 217 4. 218 4. 219 4. 220</td><td>VQT1L16 VQT1L19 VQT1L18 VQT1L17 RJA0078-1X K2CA2CA00020 K2CA2CA00027 K2CJ2DA00008 K2CT3CA00004 K2CQ2CA00006</td><td>DUTCH/ISPANISH/PORTUGUESE) O/I SOFTWARE (SWEDISH/DANISH/POLISH/ CZECH/HUNGARIAN) O/I SOFTWARE (ENGLISH/ARABIC/PERSIAN/ CHINESE(TRADITIONAL)) O/I SOFTWARE (KOREAN) O/I SOFTWARE (CHINESE(SIMPLIFIED)) O/I SOFTWARE (CHINESE(TRADITIONAL)) AC CORD WIPLUG AC CORD WIPLUG</td><td>1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>GC,SG GD GK GT GD GK GT GN EB,GC,SG EE,EF,EG,E,GC,SG</td></t<>	L B,EF,EG,E,GN E,GC,GD,GK,SG IT EXCEPT P/PC) EXCEPT P,PC) EXCEPT P,PC LEG,E,GC,SG L	215 215 215 215 215 4. 216 4. 217 4. 217 4. 218 4. 219 4. 220	VQT1L16 VQT1L19 VQT1L18 VQT1L17 RJA0078-1X K2CA2CA00020 K2CA2CA00027 K2CJ2DA00008 K2CT3CA00004 K2CQ2CA00006	DUTCH/ISPANISH/PORTUGUESE) O/I SOFTWARE (SWEDISH/DANISH/POLISH/ CZECH/HUNGARIAN) O/I SOFTWARE (ENGLISH/ARABIC/PERSIAN/ CHINESE(TRADITIONAL)) O/I SOFTWARE (KOREAN) O/I SOFTWARE (CHINESE(SIMPLIFIED)) O/I SOFTWARE (CHINESE(TRADITIONAL)) AC CORD WIPLUG	1 1 1 1 1 1 1 1 1 1 1 1 1	GC,SG GD GK GT GD GK GT GN EB,GC,SG EE,EF,EG,E,GC,SG
⚠ 203 DE-A40AA BATTERY CHARGER 1 EE ⚠ 203 DE-A40BA BATTERY CHARGER 1 EE ⚠ 203 DE-A40CA BATTERY CHARGER 1 GE ⚠ 204 ————————————————————————————————————	B,EF,EG,E,GN E,GC,GD,GK,SG IT EXCEPT P/PC) EXCEPT P,PC) EXCEPT P,PC EXCEPT	215 215 215 215 215 4. 216 4. 217 4. 217 4. 218 4. 219 4. 220	VQT1L16 VQT1L19 VQT1L18 VQT1L17 RJA0078-1X K2CA2CA00020 K2CA2CA00027 K2CJ2DA00008 K2CT3CA00004 K2CQ2CA00006	O/I SOFTWARE (SWEDISH/DANISH/POLISH/ CZECH/HUNGARIAN) O/I SOFTWARE (ENGLISH/ARABIC/PERSIAN/ CHINESE(TRADITIONAL)) O/I SOFTWARE (KOREAN) O/I SOFTWARE (CHINESE(SIMPLIFIED)) O/I SOFTWARE (CHINESE(SIMPLIFIED)) O/I SOFTWARE (CHINESE(TRADITIONAL)) AC CORD W/PLUG	1 1 1 1 1 1 1 1 1 1 1 1 1	GC,SG GD GK GT GD GK GT GN EB,GC,SG EE,EF,EG,E,GC,SG
⚠ 203 DE-A40BA BATTERY CHARGER 1 EE ⚠ 203 DE-A40CA BATTERY CHARGER 1 GT ⚠ 204 ————————————————————————————————————	E,GC,GD,GK,SG IT EXCEPT P/PC) EXCEPT P,PC) EXCEPT P,PC EXCEPT P,P	215 215 215 215 215 4. 216 4. 217 4. 217 4. 218 4. 219 4. 220	VQT1L16 VQT1L19 VQT1L18 VQT1L17 RJA0078-1X K2CA2CA00020 K2CA2CA00027 K2CJ2DA00008 K2CT3CA00004 K2CQ2CA00006	(SWEDISH/DANISH/POLISH/ CZECH/HUNGARIAN) O/I SOFTWARE (ENGLISH/ARABIC/PERSIAN/ CHINESE(TRADITIONAL)) O/I SOFTWARE (KOREAN) O/I SOFTWARE (KOREAN) O/I SOFTWARE (CHINESE(SIMPLIFIED)) O/I SOFTWARE (CHINESE(TRADITIONAL)) AC CORD W/PLUG	1 1 1 1 1 1 1 1 1 1 1 1 1	GC,SG GD GK GT GD GK GT GN EB,GC,SG EE,EF,EG,E,GC,SG
M 203 DE-A40CA BATTERY CHARGER 1 GT M 204	IT EXCEPT P/PC) EXCEPT P,PC) EXCEPT E,EG,E	215 215 215 215 <u>A</u> 216 <u>A</u> 217 <u>A</u> 217 <u>A</u> 217 <u>A</u> 218 <u>A</u> 219 <u>A</u> 220	VQT1L19 VQT1L18 VQT1L17 RJA0078-1X K2CA2CA00020 K2CA2CA00027 K2CJ2DA00008 K2CT3CA00004 K2CQ2CA00006	CZECH/HUNGARIAN) O/I SOFTWARE (ENGLISH/ARABIC/PERSIAN/ CHINESE(TRADITIONAL)) O/I SOFTWARE (KOREAN) O/I SOFTWARE (CHINESE(SIMPLIFIED)) O/I SOFTWARE (CHINESE(SIMPLIFIED)) AC CORD WIPLUG	1 1 1 1 1 1 1 1 1 1 1 1	GD GK GT GD GK GT GN EB,GC,SG EE,EF,EG,E,GC,SG
⚠ 204 ————————————————————————————————————	EXCEPT P/PC) EXCEPT P,PC) EXCEPT P/PC)	215 215 215 215 <u>A</u> 216 <u>A</u> 217 <u>A</u> 217 <u>A</u> 217 <u>A</u> 218 <u>A</u> 219 <u>A</u> 220	VQT1L19 VQT1L18 VQT1L17 RJA0078-1X K2CA2CA00020 K2CA2CA00027 K2CJ2DA00008 K2CT3CA00004 K2CQ2CA00006	O/I SOFTWARE (ENGLISH/ARABIC/PERSIAN/ CHINESE(TRADITIONAL)) O/I SOFTWARE (KOREAN) O/I SOFTWARE (CHINESE(SIMPLIFIED)) O/I SOFTWARE (CHINESE(SIMPLIFIED)) AC CORD WPLUG	1 1 1 1 1 1 1 1 1 1 1 1	GD GK GT GD GK GT GN EB,GC,SG EE,EF,EG,E,GC,SG
205 K1HA08CD0013 USB CABLE W/PLUG 1 (E) 206 K1HA08CD0014 AV CABLE W/PLUG 1 (E) 207 VFC4090 HAND STRAP 1 (E) 208 VFF0377-S CD-ROM (OVERSEAS) 1 (E) 209 VPK3372 PACKING CASE 1 (S) 209 VPK3381 PACKING CASE 1 (S) 209 VPK3385 PACKING CASE 1 (S) 209 VPK3385 PACKING CASE 1 (S) 209 VPK3390 PACKING CASE 1 (S) 209 VPK3390 PACKING CASE 1 (S) 209 VPK3394 PACKING CASE 1 (S) 209 VPK3394 PACKING CASE 1 (S) 209 VPK3387 PACKING CASE 1 (S) 209 VPK3387 PACKING CASE 1 (S) 209 VPK3388 PACKING CASE 1 (S) 209 VPK3381 PACKING CASE 1 (S) 209 VPK3391 PACKING CASE 1 (S) 209 VPK3391 PACKING CASE 1 (S) 210 VPN6597 CUSHION 1 (E) 211 VY03914 BATTERY PROTECTION CASE U (E) 212 VPF1294 BAG, POLYETHYLENE 1 (E) Δ 213 VFF0393 CD-ROM (INSTRUCTION BOOK) 1 PL Δ 214 VQT1J85 SIMPLIFIED O/I 1 PL (ENGLISH/SPANISH) Δ 214 VQT1J86 (ENGLISH) Δ 214 VQT1J94 (INSTRUCTION BOOK) 1 EE Δ 214 VQT1J94 (INSTRUCTION BOOK) 1 EE	EXCEPT P.PC)	215 215 215 215 <u>A</u> 216 <u>A</u> 217 <u>A</u> 217 <u>A</u> 217 <u>A</u> 218 <u>A</u> 219 <u>A</u> 220	VQT1L19 VQT1L18 VQT1L17 RJA0078-1X K2CA2CA00020 K2CA2CA00027 K2CJ2DA00008 K2CT3CA00004 K2CQ2CA00006	(ENGLISH/ARABIC/PERSIAN/ CHINESE(TRADITIONAL)) O/I SOFTWARE (KOREAN) O/I SOFTWARE (CHINESE(SIMPLIFIED)) O/I SOFTWARE (CHINESE(TRADITIONAL)) AC CORD WPLUG	1 1 1 1 1 1 1 1 1 1 1 1	GD GK GT GD GK GT GN EB,GC,SG EE,EF,EG,E,GC,SG
206 K1HA08CD014 AV CABLE W/PLUG 1 (E) 207 VFC4090 HAND STRAP 1 (E) 208 VFF0377-S CD-ROM (OVERSEAS) 1 (E) 209 VPK3372 PACKING CASE 1 (-S) 209 VPK3381 PACKING CASE 1 (-F) 209 VPK3385 PACKING CASE 1 (-F) 209 VPK3386 PACKING CASE 1 (-F) 209 VPK3390 PACKING CASE 1 (-F) 209 VPK3394 PACKING CASE 1 (-F) 209 VPK3387 PACKING CASE 1 (-F) 209 VPK3387 PACKING CASE 1 (-F) 209 VPK3388 PACKING CASE 1 (-F) 209 VPK3389 PACKING CASE 1 (-F) 209 VPK3389 PACKING CASE 1 (-F) 209 VPK3380 PACKING CASE 1 (-F) 209 VPK3381 PACKING CASE 1 (-F) 209 VPK3382 PACKING CASE 1 (-F) 209 VPK3388 PACKING CASE 1 (-F) 209 VPK3389 PACKING CASE 1 (-F) 210 VPN6597 CUSHION 1 (-F) 211 VY03914 BATTERY PROTECTION CASE U (-F) 212 VPF1294 BAG, POLYETHYLENE 1 (-F) 213 VFF0393 CD-ROM (INSTRUCTION BOOK) 1 PL 214 VQT1J85 SIMPLIFIED O/I 1 PL (ENGLISH)SPANISH) Δ 214 VQT1J86 SIMPLIFIED O/I 1 PL (ENGLISH)SPANISH) Δ 214 VQT1J94 INSTRUCTION BOOK 1 EE	EXCEPT P.PC)	215 215 A 216 A 217 A 217 A 218 A 219 A 220	VQT1L18 VQT1L17 RJA0078-1X K2CA2CA00020 K2CA2CA00027 K2CJ2DA00008 K2CT3CA00004 K2CQ2CA00006	CHINESE(TRADITIONAL)) O/I SOFTWARE (KOREAN) O/I SOFTWARE (CHINESE(SIMPLIFIED)) O/I SOFTWARE (CHINESE(SIMPLIFIED)) O/I SOFTWARE (CHINESE(SIMPLIFIED)) ACI SOFTWARE (CHINESE(TRADITIONAL)) AC CORD W/PLUG	1 1 1 1 1 1 1 1 1 1 1	GK GT GD GK GT GN EB,GC,SG EE,EF,EG,E,GC,SG
207 VFC4090 HAND STRAP 1 (E) 208 VFF0377-S CD-ROM (OVERSEAS) 1 (E) 209 VPK3372 PACKING CASE 1 (S) 209 VPK3381 PACKING CASE 1 (S) 209 VPK3381 PACKING CASE 1 (S) 209 VPK3385 PACKING CASE 1 (S) 209 VPK3390 PACKING CASE 1 (S) 209 VPK3390 PACKING CASE 1 (S) 209 VPK3391 PACKING CASE 1 (S) 209 VPK3387 PACKING CASE 1 (S) 209 VPK3387 PACKING CASE 1 (S) 209 VPK3388 PACKING CASE 1 (S) 209 VPK3391 PACKING CASE 1 (S) 210 VPN6597 CUSHION 1 (E) 211 VYQ3914 BATTERY PROTECTION CASE U 1 (E) 212 VPF1294 BAG, POLYETHYLENE 1 (E) Δ 213 VFF0393 CD-ROM (INSTRUCTION BOOK) 1 PL Δ 214 VQT1J85 SIMPLIFIED O/I 1 PL (ENGLISH) Δ 214 VQT1J86 SIMPLIFIED O/I 1 PL (ENGLISH)	EXCEPT P.PC) EXCEPT P.PC) ee "Notes" S) PL.EB.EE,EF,EG,E SC.GD,GN,GT,SG K) PL,EB.EE,EF,EG,E SC.GD,GN,GT,SG A) PL,EE,EG,E P) EB,GC,GT,SG T) EE,EF,EG,E W) GC,GT,SG S) GK K) GK W) GK P) GK EXCEPT P/PC) EXCEPT P/PC) L,EG,E,GC,SG L	215 215 A 216 A 217 A 217 A 218 A 219 A 220	VQT1L18 VQT1L17 RJA0078-1X K2CA2CA00020 K2CA2CA00027 K2CJ2DA00008 K2CT3CA00004 K2CQ2CA00006	O/I SOFTWARE (KOREAN) O/I SOFTWARE (CHINESE(SIMPLIFIED)) O/I SOFTWARE (CHINESE(SIMPLIFIED)) O/I SOFTWARE (CHINESE(TRADITIONAL)) AC CORD W/PLUG	1 1 1 1 1 1 1 1 1 1 1	GK GT GD GK GT GN EB,GC,SG EE,EF,EG,E,GC,SG
Se 209	ee "Notes" S) PL,EB,EE,EF,EG,E GC,GD,GN,GT,SG K) PL,EB,EE,EF,EG,E GC,GD,GN,GT,SG A) PL,EB,EG,E P) EB,GC,GT,SG T) EE,EF,EG,E W) GC,GT,SG S) GK K) GK W) GK P) GK EXCEPT P/PC) EXCEPT P/PC) EXCEPT P/PC) L,EG,E,GC,SG L	215 ⚠ 216 ⚠ 217 ⚠ 217 ⚠ 218 ⚠ 219 ⚠ 220	VQT1L17 RJA0078-1X K2CA2CA00020 K2CA2CA00027 K2CJ2DA00008 K2CT3CA00004 K2CQ2CA00006	O/I SOFTWARE (CHINESE(SIMPLIFIED)) O/I SOFTWARE (CHINESE(TRADITIONAL)) AC CORD WIPLUG	1 1 1 1 1 1	GT GD GK GT GN EB,GC,SG EE,EF,EG,E,GC,SG
209 VPK3372 PACKING CASE 1 (-S 209 VPK3381 PACKING CASE 1 (-K 209 VPK3385 PACKING CASE 1 (-F 209 VPK3390 PACKING CASE 1 (-F 209 VPK3394 PACKING CASE 1 (-F 209 VPK3387 PACKING CASE 1 (-F 209 VPK3373 PACKING CASE 1 (-F 209 VPK3382 PACKING CASE 1 (-F 209 VPK3388 PACKING CASE 1 (-F 209 VPK3391 PACKING CASE 1 (-F 210 VPK3381 PACKING CASE 1 (-F 211 VYR3391 PACKING CASE 1 (-F 211 VYR3391 BATTERY PROTECTION CASE U 1 (-F 211 VYQ3914 BATTERY PROTECTION CASE U 1 (-F 212 VPF1294 BAG, POLYETHYLENE 1 (-F 213 VFF0393 CD-ROM (INSTRUCTION BOOK) 1 PL 214 VQT1J85 SIMPLIFIED O/I 1 PL	S) PL,EB,EE,EF,EG,E GC,GD,GN,GT,SG K) PL,EB,EE,EF,EG,E GC,GD,GN,GT,SG A) PL,EE,EG,E P) EB,GC,GT,SG T) EE,EF,EG,E W) GC,GT,SG S) GK K) GK W) GK P) GK EXCEPT P/PC) EXCEPT P/PC) LEG,E,GC,SG L	215 ⚠ 216 ⚠ 217 ⚠ 217 ⚠ 218 ⚠ 219 ⚠ 220	VQT1L17 RJA0078-1X K2CA2CA00020 K2CA2CA00027 K2CJ2DA00008 K2CT3CA00004 K2CQ2CA00006	(CHINESE(SIMPLIFIED)) O/I SOFTWARE (CHINESE(TRADITIONAL)) AC CORD WIPLUG	1 1 1 1 1 1	GT GD GK GT GN EB,GC,SG EE,EF,EG,E,GC,SG
Correction Co	SC,GD,GN,GT,SG K) PL,EB,EE,EF,EG,E SC,GD,GN,GT,SG A) PL,EE,EG,E P) EB,GC,GT,SG T) EE,EF,EG,E W) GC,GT,SG S) GK K) GK W) GK P) GK EXCEPT P/PC) EXCEPT P/PC) LEG,E,GC,SG L	⚠ 216 ⚠ 217 ⚠ 217 ⚠ 218 ⚠ 219 ⚠ 220	RJA0078-1X K2CA2CA00020 K2CA2CA00027 K2CJ2DA00008 K2CT3CA00004 K2CQ2CA00006	O/I SOFTWARE (CHINESE(TRADITIONAL)) AC CORD WPLUG	1 1 1 1 1	GD GK GT GN EB,GC,SG EE,EF,EG,E,GC,SG
209 VPK3381 PACKING CASE 1 (-K 209 VPK3385 PACKING CASE 1 (-F 209 VPK3390 PACKING CASE 1 (-F 209 VPK3394 PACKING CASE 1 (-F 209 VPK3387 PACKING CASE 1 (-F 209 VPK3387 PACKING CASE 1 (-F 209 VPK3382 PACKING CASE 1 (-F 209 VPK3388 PACKING CASE 1 (-F 210 VPK6597 CUSHION 1 (-F 211 VY03391 BATTERY PROTECTION CASE U 1 (-F 212 VPF1294 BAG, POLYETHYLENE 1 (-F 213 VFF0393 CD-ROM (INSTRUCTION BOOK) 1 PL 214 VQT1J85 SIMPLIFIED O/I 1 PL (ENGLISH/SPANISH) ⚠ 214 VQT1J86 SIMPLIFIED O/I 1 PL (ENGLISH/SPANISH) (ENGLISH) ⚠ 214 VQT1J94 INSTRUCTION BOOK 1 EE	K) PL,EB,EE,EF,EG,E GC,GD,GN,GT,SG A) PL,EE,EG,E P) EB,GC,GT,SG T) EE,EF,EG,E W) GC,GT,SG S) GK K) GK W) GK P) GK EXCEPT P/PC) EXCEPT P/PC) L,EG,E,GC,SG L	⚠ 216 ⚠ 217 ⚠ 217 ⚠ 218 ⚠ 219 ⚠ 220	RJA0078-1X K2CA2CA00020 K2CA2CA00027 K2CJ2DA00008 K2CT3CA00004 K2CQ2CA00006	(CHINESE(TRADITIONAL)) AC CORD WIPLUG	1 1 1 1 1	GD GK GT GN EB,GC,SG EE,EF,EG,E,GC,SG
G G G G G G G G	CC,GD,GN,GT,SG A) PL,EE,EG,E P) EB,GC,GT,SG T) EE,EF,EG,E W) GC,GT,SG S) GK K) GK W) GC,GT,SG S) GK K) GK EXCEPT P/PC) EXCEPT P/PC) L,EG,E,GC,SG L	⚠ 217 ⚠ 217 ⚠ 218 ⚠ 219 ⚠ 220	K2CA2CA00020 K2CA2CA00027 K2CJ2DA00008 K2CT3CA00004 K2CQ2CA00006	AC CORD WIPLUG	1 1 1 1	GK GT GN EB,GC,SG EE,EF,EG,E,GC,SG
209 VPK3385 PACKING CASE 1 (-A 209 VPK3390 PACKING CASE 1 (-T 209 VPK3394 PACKING CASE 1 (-T 209 VPK3387 PACKING CASE 1 (-Y 209 VPK3373 PACKING CASE 1 (-Y 209 VPK3382 PACKING CASE 1 (-Y 209 VPK3388 PACKING CASE 1 (-Y 209 VPK3391 PACKING CASE 1 (-Y 210 VPN6597 CUSHION 1 (-E 211 VYQ3914 BATTERY PROTECTION CASE U 1 (-E 212 VPF1294 BAG, POLYETHYLENE 1 (-E 213 VFF0393 CD-ROM (INSTRUCTION BOOK) 1 PL 214 VQT1J85 SIMPLIFIED O/I 1 PL (ENGLISH/SPANISH) (-ENGLISH/SPANISH) 1 PL 4 214 VQT1J94 INSTRUCTION BOOK 1 EE 4 214 VQT1J94 INSTRUCTION BOOK 1 EE	A) PL,EE,EG,E P) EB,GC,GT,SG T) EE,EF,EG,E W) GC,GT,SG S) GK K) GK W) GK P) GK EXCEPT P/PC) EXCEPT P/PC) L,EG,E,GC,SG L	⚠ 217 ⚠ 217 ⚠ 218 ⚠ 219 ⚠ 220	K2CA2CA00020 K2CA2CA00027 K2CJ2DA00008 K2CT3CA00004 K2CQ2CA00006	AC CORD WIPLUG	1 1 1 1	GK GT GN EB,GC,SG EE,EF,EG,E,GC,SG
209 VPK3390 PACKING CASE 1 (-F 209 VPK3394 PACKING CASE 1 (-T 209 VPK3387 PACKING CASE 1 (-Y 209 VPK3373 PACKING CASE 1 (-F 209 VPK3382 PACKING CASE 1 (-F 209 VPK3388 PACKING CASE 1 (-F 210 VPN6597 CUSHION 1 (-F 211 VYQ3914 BATTERY PROTECTION CASE U 1 (-F 212 VPF1294 BAG, POLYETHYLENE 1 (-F 4 213 VFF0393 CD-ROM (INSTRUCTION BOOK) 1 PL 4 214 VQT1J85 SIMPLIFIED O/I 1 PL (ENGLISH/SPANISH) (-FORTUGUESE)	P) EB,GC,GT,SG T) EE,EF,EG,E W) GC,GT,SG S) GK K) GK W) GK P) GK EXCEPT P/PC) EXCEPT P/PC) L,EG,E,GC,SG L	<u>^</u> 217 <u>^</u> 218 <u>^</u> 219 <u>^</u> 220	K2CA2CA00027 K2CJ2DA00008 K2CT3CA00004 K2CQ2CA00006	AC CORD W/PLUG AC CORD W/PLUG AC CORD W/PLUG AC CORD W/PLUG	1 1 1	GT GN EB,GC,SG EE,EF,EG,E,GC,SG
209 VPK3394 PACKING CASE 1 (-T 209 VPK3387 PACKING CASE 1 (-V 209 VPK3373 PACKING CASE 1 (-K 209 VPK3382 PACKING CASE 1 (-K 209 VPK3388 PACKING CASE 1 (-K 209 VPK3391 PACKING CASE 1 (-F 210 VPN6597 CUSHION 1 (-E 211 VYQ3914 BATTERY PROTECTION CASE U 1 (-E 212 VPF1294 BAG, POLYETHYLENE 1 (-E ⚠ 213 VFF0393 CD-ROM (INSTRUCTION BOOK) 1 PL (ENGLISH/SPANISH) (ENGLISH/SPANISH) № 214 VQT1J86 SIMPLIFIED O/I 1 PL (FORTUGUESE) (ENGLISH) 1 EE	T) EE,EF,EG,E W) GC,GT,SG S) GK K) GK W) GK P) GK EXCEPT P/PC) EXCEPT P/PC) L,EG,E,GC,SG L	<u>^</u> 218 <u>^</u> 219 <u>^</u> 220	K2CT3CA00004 K2CQ2CA00006	AC CORD W/PLUG AC CORD W/PLUG	1	EB,GC,SG EE,EF,EG,E,GC,SG
209 VPK3373 PACKING CASE 1 (-K 209 VPK3382 PACKING CASE 1 (-K 209 VPK3388 PACKING CASE 1 (-K 209 VPK3391 PACKING CASE 1 (-F 210 VPN6597 CUSHION 1 (-E 211 VY03914 BATTERY PROTECTION CASE U 1 (-E 212 VPF1294 BAG, POLYETHYLENE 1 (-E ▲ 213 VFF0393 CD-ROM (INSTRUCTION BOOK) 1 PL (ENGLISH/SPANISH) (ENGLISH/SPANISH) ▲ 214 VQT1J86 SIMPLIFIED O/I 1 PL (FORTUGUESE) (FORTUGUESE) (ENGLISH)	S) GK K) GK W) GK P) GK EXCEPT P/PC) EXCEPT P/PC) L,EG,E,GC,SG L	<u></u> 220	K2CQ2CA00006	AC CORD W/PLUG	1	EE,EF,EG,E,GC,SG
209 VPK3382 PACKING CASE 1 (-K 209 VPK3388 PACKING CASE 1 (-V 209 VPK3391 PACKING CASE 1 (-F 210 VPN6597 CUSHION 1 (E 211 VYQ3914 BATTERY PROTECTION CASE U 1 (E ½ 212 VPF1294 BAG, POLYETHYLENE 1 (E ½ 213 VFF0393 CD-ROM (INSTRUCTION BOOK) 1 PL ½ 214 VQT1J85 SIMPLIFIED O/I 1 PL (ENGLISH/ISPANISH) (PORTUGUESE) 1 PL ½ 214 VQT1J94 INSTRUCTION BOOK 1 EE (ENGLISH) 1 EE (ENGLISH)	K) GK W) GK P) GK EXCEPT P/PC) EXCEPT P/PC) LEG.E.GC,SG					
209 VPK3388 PACKING CASE 1 (-V 209 VPK3391 PACKING CASE 1 (-F 210 VPN6597 CUSHION 1 (E 211 VY03914 BATTERY PROTECTION CASE U 1 (E Δ 212 VPF1294 BAG, POLYETHYLENE 1 (E Δ 213 VFF0393 CD-ROM (INSTRUCTION BOOK) 1 PL (ENGLISH/SPANISH) (ENGLISH/SPANISH) 1 PL Δ 214 VQT1J86 SIMPLIFIED O/I 1 PL (PORTUGUESE) (ENGLISH) 1 EE Δ 214 VQT1J94 INSTRUCTION BOOK 1 EE	W) GK P) GK EXCEPT P/PC) EXCEPT P/PC) EXCEPT P/PC) L,EG,E,GC,SG L	221	VQL1G34	OPERATION LABEL	1	
209 VPK3391 PACKING CASE 1 (-F 210 VPN6597 CUSHION 1 (E 211 VYQ3914 BATTERY PROTECTION CASE U 1 (E 212 VPF1294 BAG, POLYETHYLENE 1 (E ⚠ 213 VFF0393 CD-ROM (INSTRUCTION BOOK) 1 PL ⚠ 214 VQT1J85 SIMPLIFIED O/I 1 PL (ENGLISH/SPANISH) (PORTUGUESE) 1 PL ⚠ 214 VQT1J94 INSTRUCTION BOOK 1 EE (ENGLISH) (ENGLISH)	P) GK EXCEPT P/PC) EXCEPT P/PC) EXCEPT P/PC) L,EG,E,GC,SG L				l	GT
210 VPN6597 CUSHION 1 (E 211 VYQ3914 BATTERY PROTECTION CASE U 1 (E 212 VPF1294 BAG, POLYETHYLENE 1 (E ⚠ 213 VFF0393 CD-ROM (INSTRUCTION BOOK) 1 PL ⚠ 214 VQT1J85 SIMPLIFIED O/I 1 PL (ENGLISH/SPANISH) (ENGLISH/SPANISH) 1 PL (PORTUGUESE) (PORTUGUESE) (ENGLISH)	EXCEPT P/PC) EXCEPT P/PC) EXCEPT P/PC) L,EG,E,GC,SG L				Г	
211 VYQ3914 BATTERY PROTECTION CASE U 1 (E 212 VPF1294 BAG, POLYETHYLENE 1 (E ⚠ 213 VFF0393 CD-ROM (INSTRUCTION BOOK) 1 PL № 214 VQT1J85 SIMPLIFIED O/I 1 PL (ENGLISH/SPANISH) INPLIFIED O/I 1 PL (PORTUGUESE) (PORTUGUESE) 1 EE № 214 VQT1J94 INSTRUCTION BOOK 1 EE (ENGLISH) (ENGLISH)	EXCEPT P/PC) EXCEPT P/PC) L,EG,E,GC,SG L				-	
212 VPF1294 BAG, POLYETHYLENE 1 (E ⚠ 213 VFF0393 CD-ROM (INSTRUCTION BOOK) 1 PL ⚠ 214 VQT1J85 SIMPLIFIED O/I 1 PL (ENGLISH/SPANISH) (ENGLISH/SPANISH) 1 PL № 214 VQT1J86 SIMPLIFIED O/I 1 PL (PORTUGUESE) (PORTUGUESE) 1 EE № 214 VQT1J94 INSTRUCTION BOOK 1 EE (ENGLISH) (ENGLISH)	EXCEPT P/PC) L,EG,E,GC,SG L		,			
⚠ 213 VFF0393 CD-ROM (INSTRUCTION BOOK) 1 PL ⚠ 214 VQT1J85 SIMPLIFIED 0/I 1 PL (ENGLISH/SPANISH) (ENGLISH/SPANISH) 1 PL (PORTUGUESE) (PORTUGUESE) 1 PL Д 214 VQT1J94 INSTRUCTION BOOK 1 EE (ENGLISH) (ENGLISH)	L,EG,E,GC,SG L					
⚠ 214 VQT1J85 SIMPLIFIED 0/I 1 PL (ENGLISH/SPANISH) (ENGLISH/SPANISH) ⚠ 214 VQT1J86 SIMPLIFIED 0/I 1 PL (PORTUGUESE) (PORTUGUESE) ⚠ 214 VQT1J94 INSTRUCTION BOOK 1 EE (ENGLISH)	L					
(ENGLISH/SPANISH) ⚠ 214 VQT1J86 SIMPLIFIED O/I 1 PL (PORTUGUESE) ⚠ 214 VQT1J94 INSTRUCTION BOOK 1 EE (ENGLISH)						1
(PORTUGUESE) ⚠ 214 VQT1J94 INSTRUCTION BOOK 1 EB (ENGLISH)	L					
<u>A</u> 214 VQT1J94 INSTRUCTION BOOK 1 EE (ENGLISH)	I .					
(ENGLISH)						
	В					
	F					
⚠ 214 VQT1J95 INSTRUCTION BOOK 1 EE (RUSSIAN)	E					
(RUSSIAN) A 214 VQT1J96 INSTRUCTION BOOK 1 EE	F					
(UKRAINIAN)	_					
⚠ 214 VQT1J93 INSTRUCTION BOOK 1 EF	F					
(FRENCH)						
⚠ 214 VQT1J87 SIMPLIFIED O/I 1 EG	G					
(GERMAN/FRENCH)						
⚠ 214 VQT1J88 SIMPLIFIED O/I 1 EG	G					
(ITALIAN/DUTCH) ⚠ 214 VQT1J89 SIMPLIFIED O/I 1 EG	0					
⚠ 214 VQT1J89 SIMPLIFIED O/I 1 EG (SPANISH/PORTUGUESE)	G					
↑ 214 VQT1J90 SIMPLIFIED O/I 1 E						
(SWEDISH/DANISH)						
⚠ 214 VQT1J91 SIMPLIFIED O/I 1 E						
(POLISH/CZECH)						
<u>↑</u> 214 VQT1J92 SIMPLIFIED O/I 1 E						
(HUNGARIAN)						_
	C,SG					1
(ENGLISH/ CHINESE(TRADITIONAL))						
	ic,sg				H	+
(ARABIC/PERSIAN)	,					
⚠ 214 VQT1K02 INSTRUCTION BOOK 1 GE	iD .					†
(KOREAN)						
⚠ 214 VQT1K00 INSTRUCTION BOOK 1 GH	K					
(CHINESE(SIMPLIFIED))					L	
⚠ 214 VQT1K01 INSTRUCTION BOOK 1 GN	N					<u> </u>
(ENGLISH)	т					+
⚠ 214 VQT1J99 INSTRUCTION BOOK 1 GT (CHINESE(TRADITIONAL))	"					+
215 VQT1L10 O/I SOFTWARE 1 PL	L					+
(ENGLISH/SPANISH/	-					
PORTUGUESE)						1
· · · · · · · · · · · · · · · · · · ·	B,GN					
(ENGLISH)	-					
215 VQT1L15 O/I SOFTWARE 1 EE	E				L	
(RUSSIAN/UKRAINIAN)						<u> </u>
215 VQT1L13 O/I SOFTWARE 1 EF	F				-	
(FRENCH)					-	-
						+
					<u> </u>	i contract of the contract of

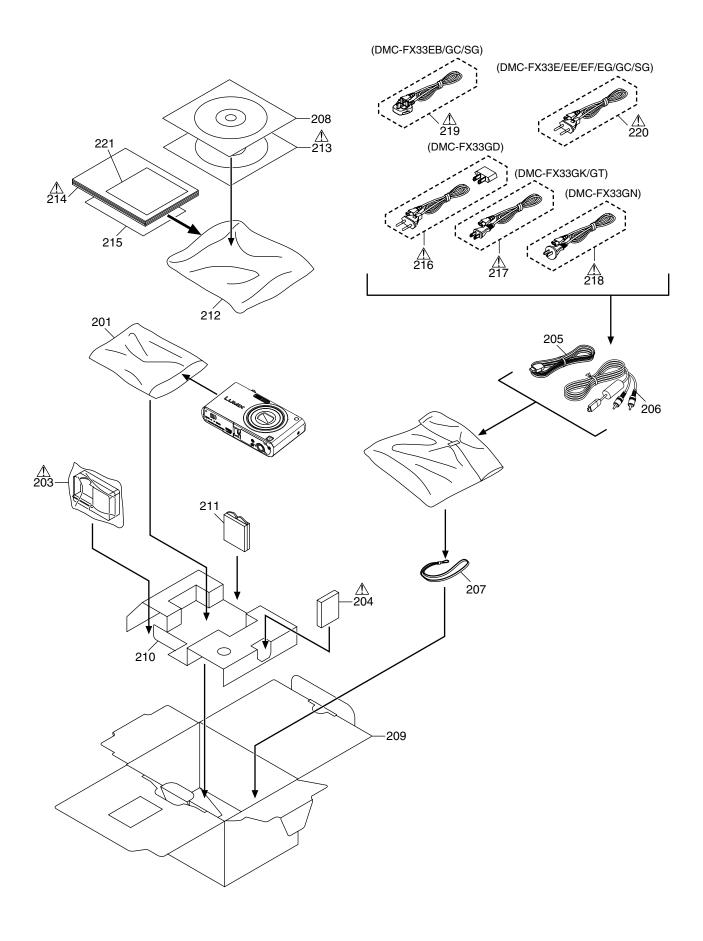
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
		CAMERA BAG		P,PC					
<u></u> 303 <u></u> 304		BATTERY CHARGER BATTERY		P,PC P,PC					
305	K1HA08CD0013	USB CABLE W/PLUG		P,PC					
306		AV CABLE W/PLUG		P,PC					
307		HAND STRAP		P,PC					
308	VFF0376-S	CD-ROM (USA)		P,PC					
309	VPK3371	PACKING CASE	1	See "Notes" (-S) P,PC					
		PACKING CASE	1	(-K) P,PC					
309		PACKING CASE		(-T) P					
		PACKING CASE		(-A) P,PC					
	VPN6442	CUSHION		P,PC					
		BATTERY PROTECTION CASE U BAG, POLYETHYLENE		P,PC P,PC					
<u>312</u> <u></u>		INSTRUCTION BOOK		P,PC					
717 010	VQ11002	(ENGLISH)	·	1,10					
<u></u> 314	VQT1J83	INSTRUCTION BOOK	1	P					
		(SPANISH)							
<u></u> 314	VQT1J84	INSTRUCTION BOOK	1	PC					
315		(CANADIAN FRENCH) O/I SOFTWARE	4	P,PC					
313		(ENGLISH/CANADIAN FRENCH)	-	∪ ار ا					
316		OPERATION LABEL	1	PC					
					-				
			-					-	
			-					-	
			-					-	
			-					-	
			_						
			-					H	
								L	
				·					

S7. Exploded View

S7.1. Frame and Casing Section



S7.2. Packing Parts and Accessories Section (1)



S7.3. Packing Parts and Accessories Section (2)

