

Service Manual

Digital Camera/Body/Lens Kit/Double Zoom Lens Kit

LUMIX



Model No. **DMC-G5PP**

DMC-G5PC

DMC-G5EB

DMC-G5EF

DMC-G5EG

DMC-G5GC

DMC-G5GH

DMC-G5GN

DMC-G5GT

DMC-G5KPP

DMC-G5KPC

DMC-G5KEB

DMC-G5KEC

DMC-G5KEE

DMC-G5KEF

DMC-G5KEG

DMC-G5KGC

DMC-G5KGD

DMC-G5KGK

DMC-G5KGN

DMC-G5XPP

DMC-G5XPC

DMC-G5XEB

Panasonic[®]

DMC-G5XEC
DMC-G5XEE
DMC-G5XEF
DMC-G5XEG
DMC-G5XGC
DMC-G5XGH
DMC-G5XGK
DMC-G5XGN
DMC-G5XGT

DMC-G5WEB
DMC-G5WEC
DMC-G5WEF
DMC-G5WEG
DMC-G5WGC
DMC-G5WGH
DMC-G5WGK
DMC-G5WGN
DMC-G5WGT

Colour

[DMC-G5]

(K).....Black Type
(S).....Silver Type (only PP/PC)
(W).....White Type (only PP/PC/GH/GT)

[DMC-G5X]

(K).....Black Type
(S).....Silver Type (except EB/EC)
(W).....White Type (except EB/EC)

[DMC-G5K]

(K).....Black Type
(S).....Silver Type (except EC/GD)
(W).....White Type (except EB/EC)

[DMC-G5W]

(K).....Black Type
(S).....Silver Type (except EB/EC/EF/EG)
(W).....White Type (except EB/EC/EF/EG)

DMC-G5K series: Interchangeable Lens (H-FS014042) is bundled.

DMC-G5X series: Interchangeable Lens (H-PS14042) is bundled.

DMC-G5W series: Interchangeable Lens (H-FS014042/H-FS45150) are bundled.

 **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.

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1 Safety Precautions

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.
4. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
5. 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 $1\text{ M}\Omega$ and $5.2\text{ M}\Omega$. 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 $1.5\text{ k}\Omega$, 10 W resistor, in parallel with a $0.15\text{ }\mu\text{F}$ 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 $1\text{ k}\Omega/\text{V}$ 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 $1/2\text{ mA}$. 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

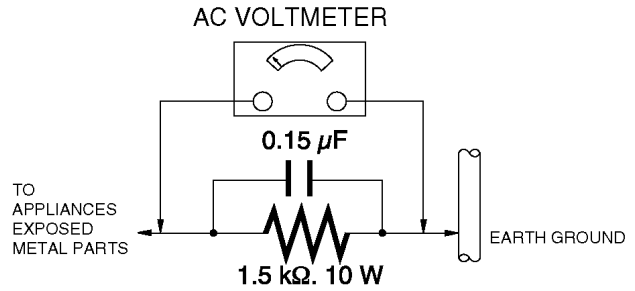


Figure. 1

1.4. How to Discharge the E. Capacitor on Flash P.C.B.

CAUTION:

1. Be sure to discharge the E. Capacitor on FLASH P.C.B..
2. Be careful of the high voltage circuit on FLASH P.C.B. when servicing.

[Discharging Procedure]

1. Remove the Battery Capacitor Cover.
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 E. Capacitor on FLASH P.C.B. for approx. 5 seconds.
4. After discharging, confirm that the E. Capacitor voltage is lower than 10V by using a voltmeter.

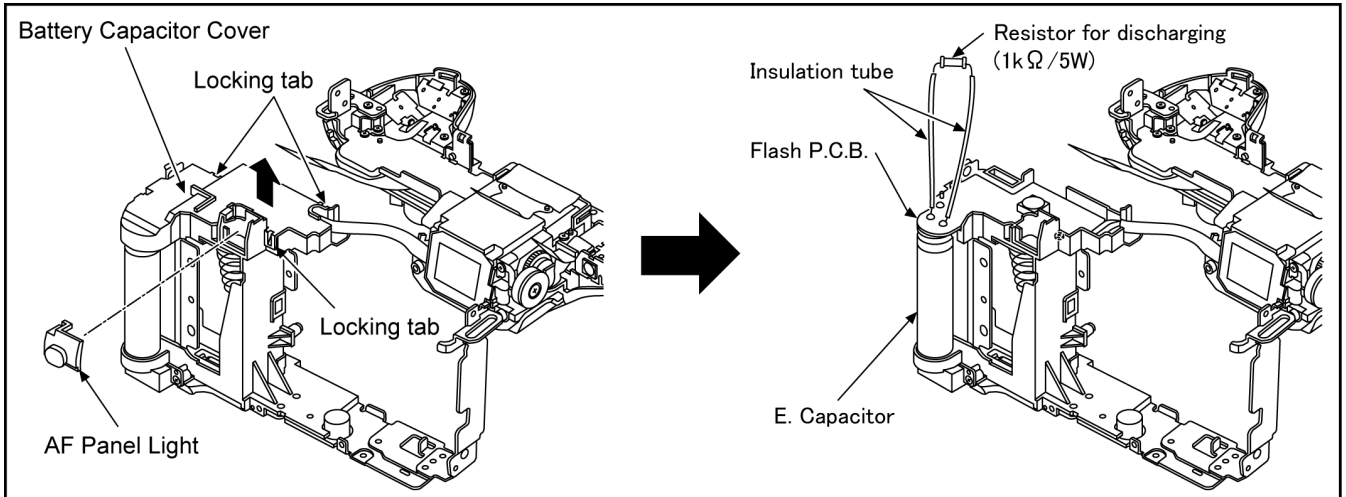


Fig. F1

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 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 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 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/GH)

2.3.1. Information for Your Safety

IMPORTANT

Your attention is drawn to the fact that recording of pre-recorded 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 ASTA 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 safely.

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.

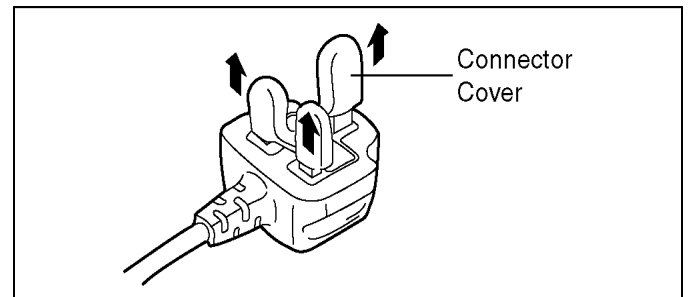
The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

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.



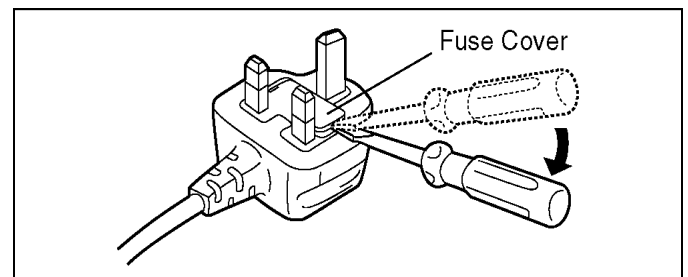
2.3.2.2. Before Use

Remove the Connector Cover as follows.

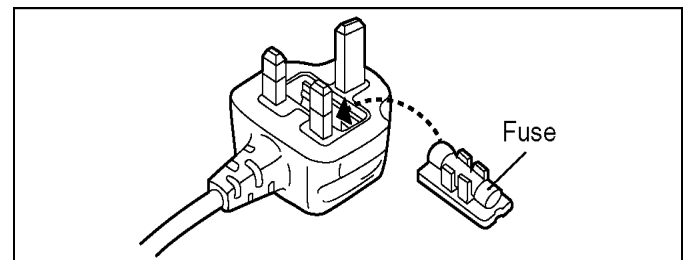


2.3.2.3. How to Replace the Fuse

1. Remove the Fuse Cover with a screwdriver.



2. Replace the fuse and attach the Fuse cover.



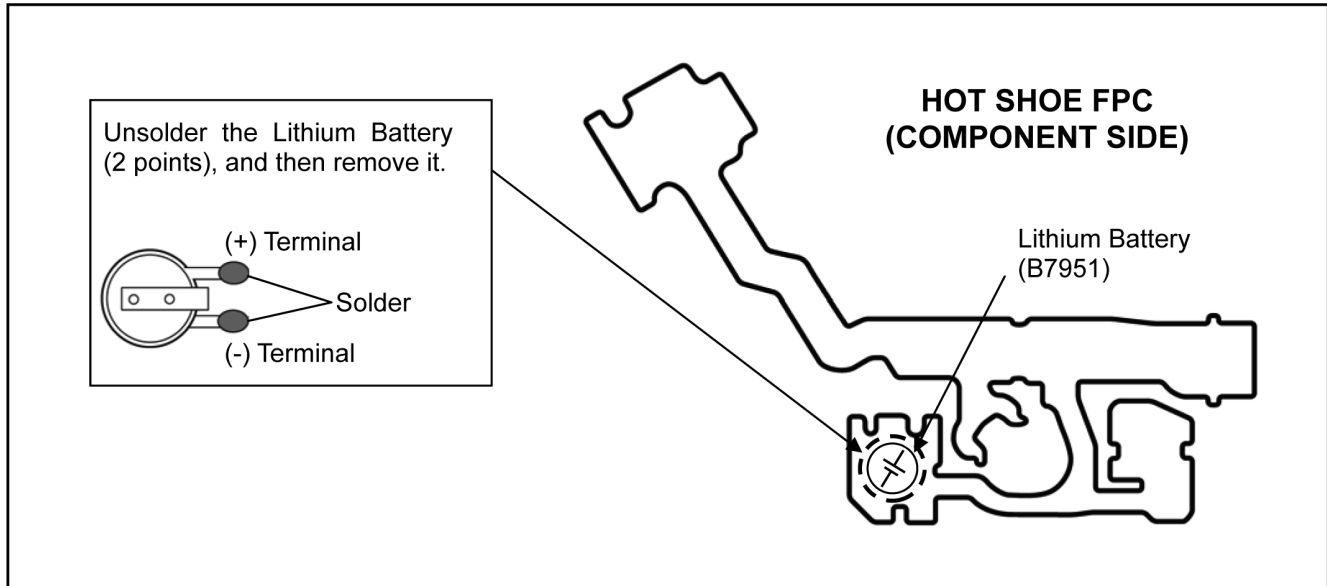
2.4. How to Replace the Lithium Battery

2.4.1. Replacement Procedure

1. Remove the HOT SHOE FPC (Refer to Disassembly Procedures.)
2. Unsolder the each soldering point of electric lead terminal for Lithium battery (Ref. No. "B7951" at component side of HOT SHOE FPC) and remove the Lithium battery together with electric lead terminal. Then replace it into new one.

NOTE:

The Type No. ML421 includes electric lead terminals.



NOTE:

This Lithium battery is a critical component.

(Type No.: ML421 **Manufactured by Energy Company, Panasonic Corporation.**)

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 type recommended by the manufacturer.
- When disposing the batteries, please contact your local authorities or dealer and ask for the correct method of disposal.

(For German)

ACHTUNG

- Explosionsgefahr bei falschem Anbringen der Batterie. Ersetzen Sie die Batterie nur durch den vom Hersteller empfohlenen Typ.
- Wenden Sie sich zur Entsorgung der Batterien an die lokalen Behörden oder erfragen Sie die richtige Vorgehensweise zur Entsorgung.

(For French)

MISE EN GARDE

- Il y a un danger d'explosion si la batterie n'est pas correctement remplacée. Remplacez-la uniquement par le type recommandé par le fabricant.
- Pour vous débarrasser des batteries, veuillez contacter les autorités locales ou votre revendeur afin de connaître la procédure d'élimination à suivre.

NOTE:

Above caution is applicable for a battery pack which is for DMC-G5/G5K/G5X/G5W 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. Important Notice

*When servicing, it is recommended dealing with Clean box. (Refer to "8.2. Clean Box" section of this service manual for details.)

3.2.1. Camera Body Unit

3.2.1.1. About Mount Box Unit (Ref. 4)

1. This Service Manual does not contain the following repair service information for "MOUNT BOX UNIT"(Ref.4), because it requires special facilities and equipment.
 - a. Schematic diagram, Block diagram and P.C.B. layout.
 - b. Parts list for individual parts.
2. If the "MOUNT BOX UNIT" is confirmed as defective, exchange the "MOUNT BOX UNIT" as a unit (supplied as service parts size).
3. Before exchanging the "MOUNT BOX UNIT", the performances must be carefully checked, by following the "7.Troubleshooting Guide" section of this service manual.

Important:

1. After replacing the MOUNT BOX UNIT, the mount box data has to be stored to the unit. The mount box unit supplied as service parts has affix the label of own configure data. By inputting these data into the adjustment software and writing these data to FLASH-ROM (IC9999), the shutter adjustment becomes needless. In addition, the adjustment software can read data encoded to QR code by using WEB camera with a close-up function. Refer to the adjustment instruction in the adjustment software for details.

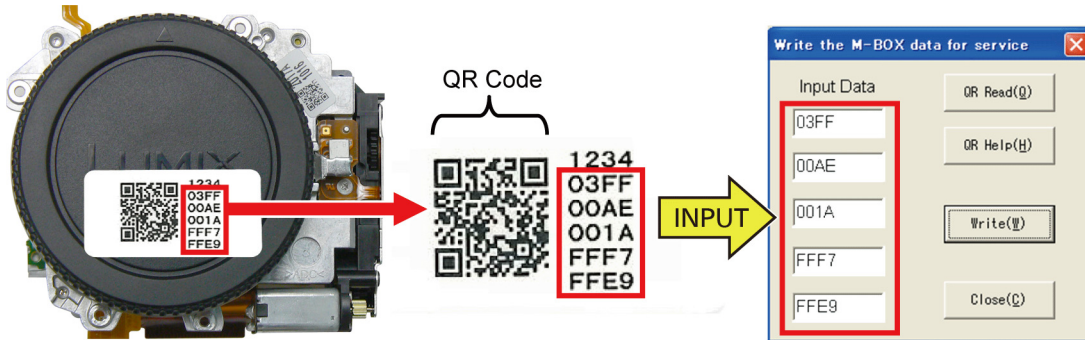


Fig. S1

2. The full adjustment must be performed after replacing the "MOUNT BOX UNIT", otherwise picture quality can not be meet with specification.

3.2.1.2. About Flexible Cable and Connector

Do not touch carelessly so that the foreign body should not adhere to the terminal part of flexible cable and connector. Wipe off with a clean cloth and the cotton bud, etc. when the terminal part is dirty.

3.2.1.3. About Main P.C.B. (Ref. 1) & Flash-ROM(IC9999)

Important:

1. Before exchanging the "MAIN P.C.B.", the performances must be carefully checked, by following the "7.Troubleshooting Guide" section of this service manual.
2. Before replacing the "MAIN P.C.B. and/or Flash-ROM", proceed the EEPROM data backup from the unit.
After replacing the MAIN P.C.B. and/or Flash-ROM, overwrite the EEPROM data with backup data from the unit first, then proceed the adjustment /inspection.Refer to the adjustment instruction in the adjustment software for details.
3. The full adjustment must be performed after replacing the "MAIN P.C.B. and/or Flash-ROM", otherwise Picture quality can not be met with specification.

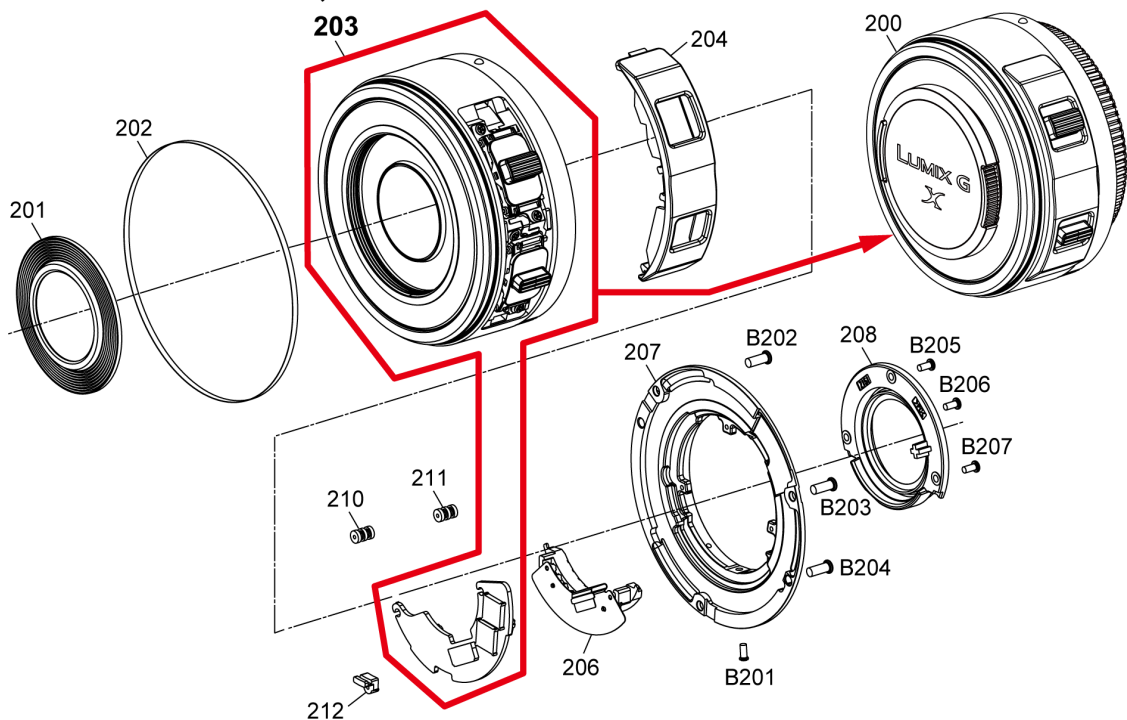
3.2.2. Lens Unit (Interchangeable Lens: H-PS14042)

3.2.2.1. About Lens MAIN Block unit (Ref. 203)

1. LENS MAIN BLOCK UNIT (Ref. 203) is not supplied due to difficulty of the transportation issue (Fragile, Dust-free packing), and requires critical lens adjustments.
Therefore, any needs of the "LENS MAIN BLOCK UNIT" (Ref. 203), carefully confirm its performance in advance.
2. Once "LENS MAIN BLOCK UNIT" (Ref. 203) is confirmed as defective, place order "LENS Unit" (Ref. 200).

• When the "Ref.203" is necessary to be replaced, replace as a "Ref.200".

When a colour of camera body **isn't S/W**,
a colour of LENS MAIN BLOCK UNIT(Ref.203) is **black**.
When a colour of camera body **is S/W**,
a colour of LENS MAIN BLOCK UNIT(Ref.203) is **silver**.



NOTE:

Keep covering the lens unit with Lens caps (front & rear), other than necessary cases.

Fig. S2

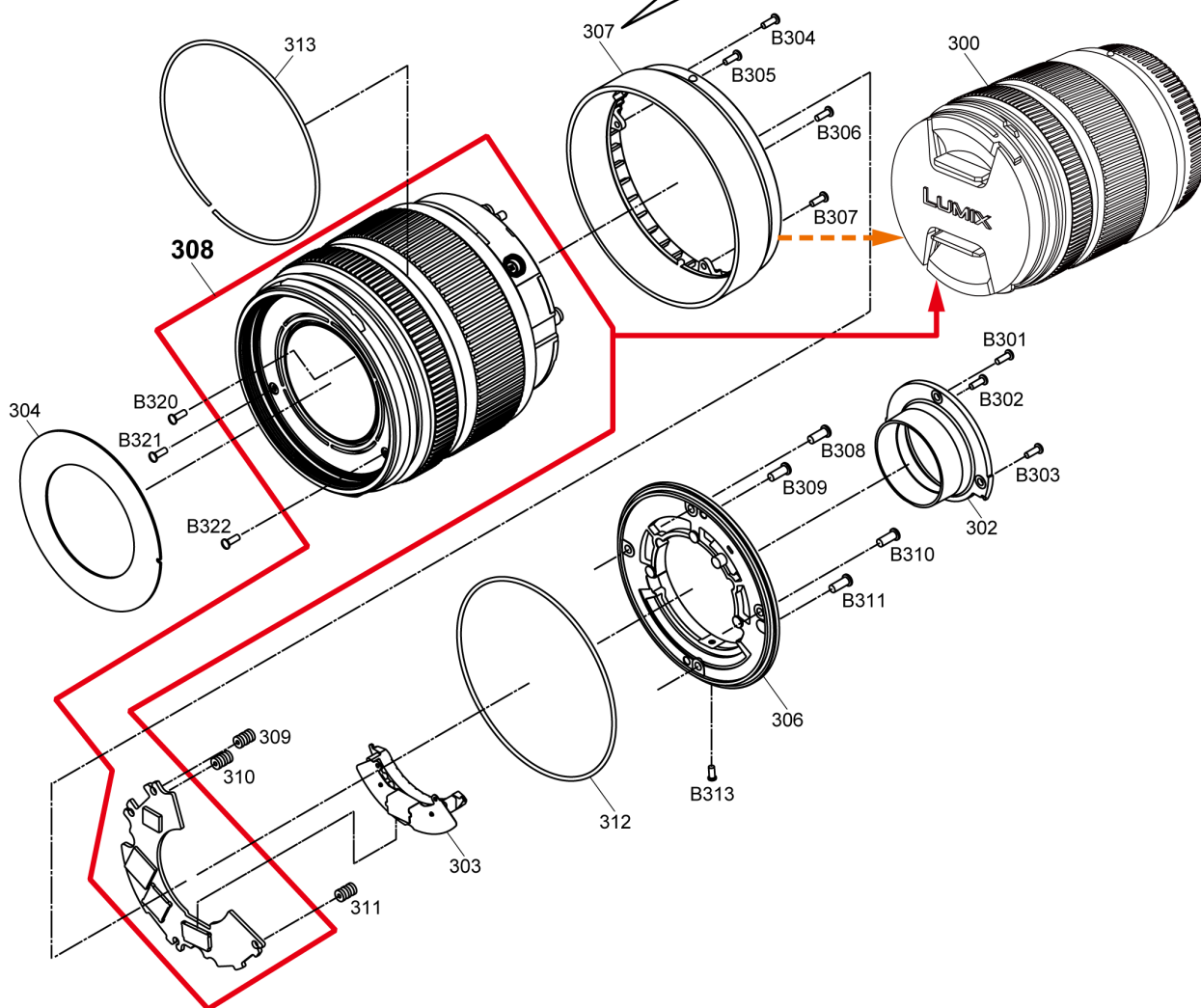
3.2.3. Lens Unit (Interchangeable Lens: H-FS014042)

3.2.3.1. About Lens Main Block Unit (Ref. 308)

1. LENS MAIN BLOCK UNIT (Ref. 308) is not supplied due to difficulty of the transportation issue (Fragile, Dust-free packing), and requires critical lens adjustments.
Therefore, any needs of the "LENS MAIN BLOCK UNIT" (Ref. 308), carefully confirm its performance in advance.
2. Once "LENS MAIN BLOCK UNIT" (Ref. 308) is confirmed as defective, place order "LENS Unit" (Ref. 300) and replace REAR FRAME UNIT (Ref. 307), to maintain Serial number of owner's original lens.

- When the "Ref.308" is necessary to be replaced, replace as a "Ref.300".
- However, replace "Ref.307", to maintain Serial number of original lens

When a colour of camera body **isn't S/W**,
a colour of REAR FRAME UNIT(Ref.307) is **black**.
When a colour of camera body **is S/W**,
a colour of REAR FRAME UNIT(Ref.307) is **silver**.



NOTE:

Keep covering the lens unit with Lens caps (front & rear), other than necessary cases.

Fig. S3

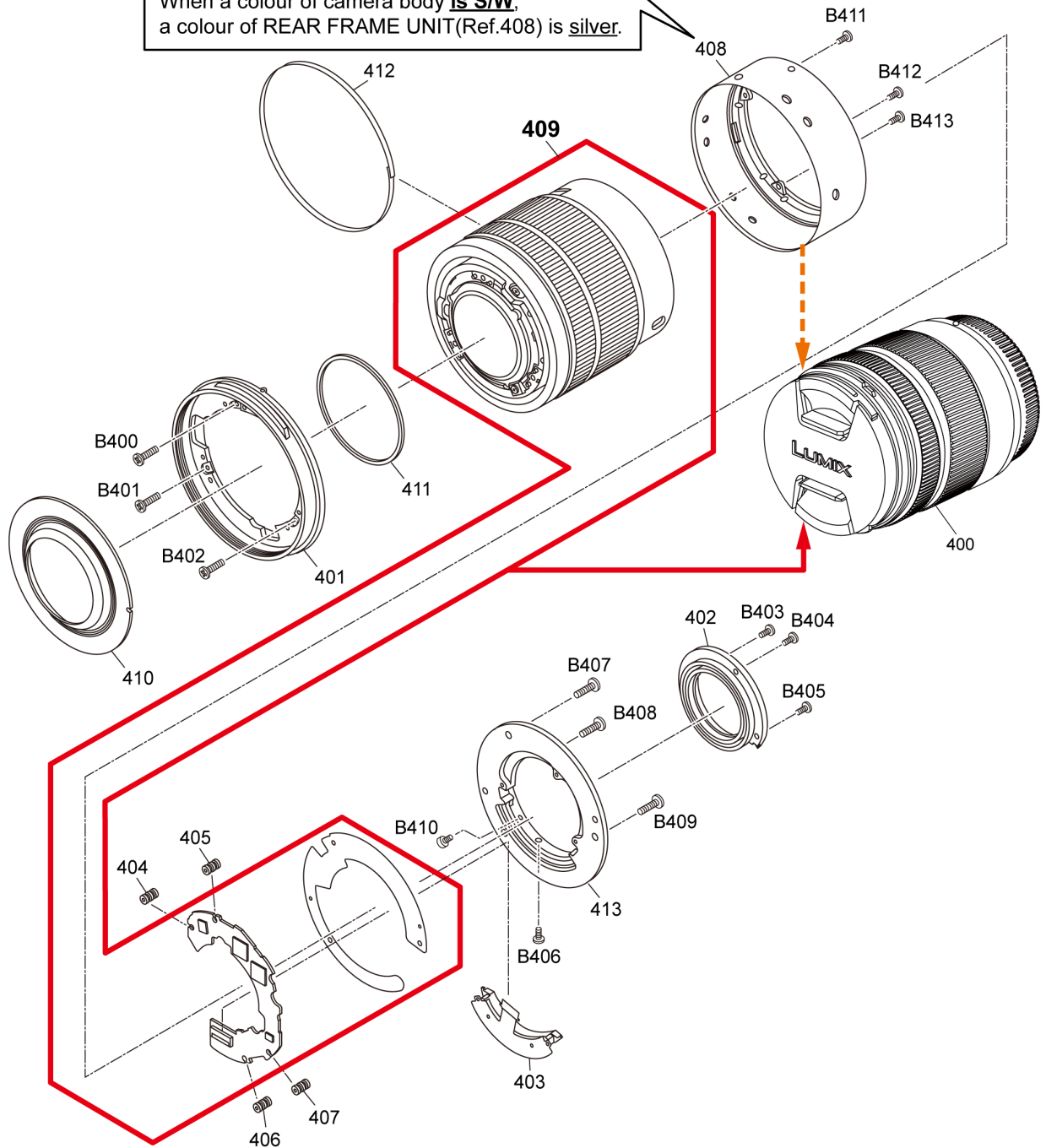
3.2.4. Lens Unit (Interchangeable Lens: H-FS45150)

3.2.4.1. About Lens Main Block Unit (Ref. 409)

1. LENS MAIN BLOCK UNIT (Ref. 409) is not supplied due to difficulty of the transportation issue (Fragile, Dust-free packing), and requires critical lens adjustments.
Therefore, any needs of the "LENS MAIN BLOCK UNIT" (Ref. 409), carefully confirm its performance in advance.
2. Once "LENS MAIN BLOCK UNIT" (Ref. 409) is confirmed as defective, place order "LENS Unit" (Ref. 400) and replace REAR FRAME UNIT (Ref. 408), to maintain Serial number of owner's original lens.

• When the "Ref.409" is necessary to be replaced, replace as a "Ref.400".
• However, replace "Ref.408", to maintain Serial number of original lens

When a colour of camera body **isn't S/W**,
a colour of REAR FRAME UNIT(Ref.408) is **black**.
When a colour of camera body **is S/W**,
a colour of REAR FRAME UNIT(Ref.408) is **silver**.



NOTE:
Keep covering the lens unit with Lens caps (front & rear), other than necessary cases.

Fig. S4

3.3. 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 P.C.B. Lead Free Solder being used

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

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 P.C.B. 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 P.C.B. 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.
RFKZ03D01KS------(0.3mm 100g Reel)
RFKZ06D01KS------(0.6mm 100g Reel)
RFKZ10D01KS------(1.0mm 100g Reel)

Note

* 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 eight kinds of DMC-G5 (Camera body unit), regardless of the colours.

- a) DMC-G5 (Japan domestic model)
- b) DMC-G5PP/PC
- c) DMC-G5EB/EC/EF/EG/GH/GN
- d) DMC-G5EE
- e) DMC-G5GK
- f) DMC-G5GT
- g) DMC-G5GD
- h) DMC-G5GC

What is the difference is that the "INITIAL SETTINGS" data which is stored in Flash-ROM mounted on MAIN P.C.B..

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.

<p>a) DMC-G5 (Japan domestic model) The nameplate for this model shows the following Safety registration mark.</p> 
<p>b) DMC-G5PP/PC The nameplate for these models show the following Safety registration mark.</p> 
<p>c) DMC-G5EB/EC/EF/EG/GH/GN The nameplate for these models show the following Safety registration mark.</p> 
<p>d) DMC-G5EE The nameplate for this model shows the following Safety registration mark.</p> 
<p>e) DMC-G5GK The nameplate for this model shows the following Safety registration mark.</p> 
<p>f) DMC-G5GT The nameplate for this model shows the following Safety registration mark.</p> 
<p>g) DMC-G5GD The nameplate for this model shows the following Safety registration mark.</p> 
<p>h) DMC-G5GC The nameplate for this model does not show any above Safety registration mark.</p>

NOTE:

After replacing the MAIN P.C.B., be sure to achieve adjustment.
Refer to the adjustment instruction in the adjustment software for details.

3.4.2. INITIAL SETTINGS:

After replacing the MAIN P.C.B., make 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, make sure to read the following CAUTION.

CAUTION:(INITIAL SETTINGS)

---AFTER REPLACING THE MAIN P.C.B. ---

[Except "EG, EB, EC and EF" models : (VEP56168A is used as a Main P.C.B.)]

*. The model suffix can be chosen **JUST ONE TIME.**

(Effective model suffix : " PP/PC/EE/GC/GD/GH/GK/GN/GT and NONE(JAPAN)")

*. Once one of the model suffix has been chosen, the model suffix lists will not be displayed, thus, it can not be changed.

[Only for "EG, EB, EC and EF" models : (VEP56168B is used as a Main P.C.B.)]

*. From the beginning, only "EG, EB, EC and EF" are displayed as model suffix lists, and these are displayed from the second times as well.

2. PROCEDURES:

• **Precautions:** Read the above "CAUTION" carefully.

• **Preparation:**

Attach the fully charged Battery, and insert the SD memory card.

Confirm that it is not intelligent auto mode [iA] or intelligent auto plus mode [iA+].

NOTE:

If the unit is intelligent auto mode [iA] or intelligent auto plus mode [iA+], it does not display the initial settings menu.

• **Step 1. The temporary cancellation of "INITIAL SETTINGS":**

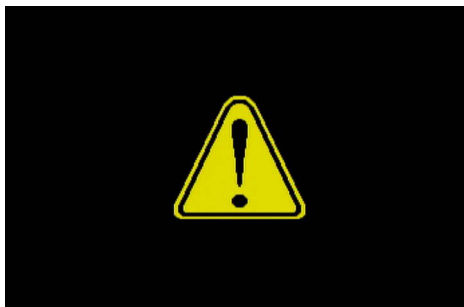
While keep pressing [DISP.], [AF/AE LOCK] and "[RIGHT] of Cursor buttons" simultaneously, turn the Power on.

• **Step 2. The cancellation of "INITIAL SETTINGS":**

Press the [Playback] button, then playback the picture.

Press [AF/AE LOCK] and "[UP] of Cursor buttons" simultaneously, then turn the Power off.

The LCD displays the " ! " mark before the unit powers down.



• **Step 3. Turn the Power on:**

Set the mode dial to [P] (Program AE Mode), then turn the Power on.

• **Step 4. Display the INITIAL SETTING:**

While keep pressing [MENU/SET] and “[RIGHT] of Cursor buttons” simultaneously, turn the Power off.

The “INITIAL SETTINGS” menu is displayed.

There are two kinds of “INITIAL SETTINGS” menu form as follows:

[CASE 1. After replacing MAIN P.C.B.]

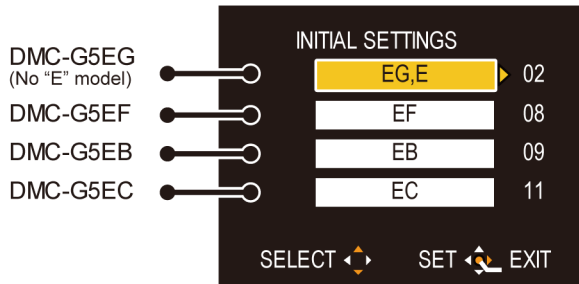
[Except “EG, EB, EC and EF” models : (VEP56168A is used as a Main P.C.B.)]

When MAIN P.C.B. has just been replaced, all of the model suffix are displayed as follows. (three pages in total)



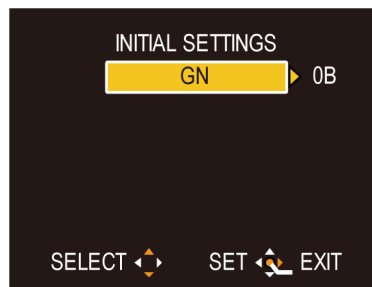
[Only for “EG, EB, EC and EF” models : (VEP56168B is used as a Main P.C.B.)]

When MAIN P.C.B. has just been replaced, only 4 model suffix are displayed as follows.

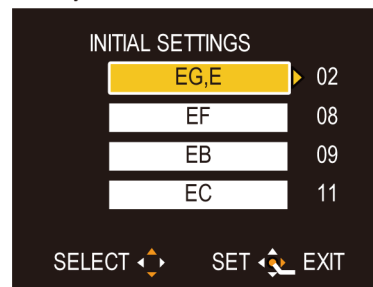


[CASE 2. Other than “After replacing MAIN P.C.B.”]

< Other than “EG/EB/EC/EF” models >



< Only “EG/EB/EC/EF” models >



• **Step 5. Choose the model suffix in “INITIAL SETTINGS”:** (Refer to “CAUTION”)

[Caution: After replacing MAIN P.C.B.]

The model suffix can be chosen, **JUST ONE TIME**.

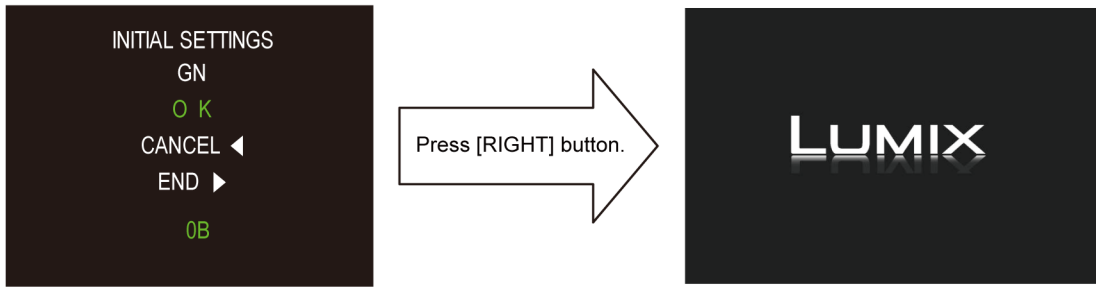
Once one of the model suffix have been chosen, the model suffix lists will not be displayed, thus, it can be changed.

Therefore, select the area carefully.

Select the area with pressing “[UP] / [DOWN] of Cursor buttons”.

• **Step 6. Set the model suffix in “INITIAL SETTINGS”:**

- Press the “[RIGHT] of Cursor buttons”.
- The only set area is displayed, and then press the “[RIGHT] of Cursor buttons” after confirmation.
(The unit is powered off automatically.)



• **Step 7. CONFIRMATION:**

Confirm the display of “PLEASE SET THE CLOCK” in concerned language when the unit is turned 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, major default setting condition is as shown in the following table.

• **Default setting (After “INITIAL SETTINGS”)**

	MODEL	VIDEO OUTPUT	LANGUAGE	DATE	REMARKS
a)	DMC-G5 (Japan domestic model)	NTSC	Japanese	Year/Month/Date	
b)	DMC-G5PP	NTSC	English	Month/Date/Year	
c)	DMC-G5PC	NTSC	English	Month/Date/Year	
d)	DMC-G5EB	PAL	English	Date/Month/Year	
e)	DMC-G5EC	PAL	English	Date/Month/Year	
f)	DMC-G5EE	PAL	Russian	Date/Month/Year	
g)	DMC-G5EF	PAL	French	Date/Month/Year	
h)	DMC-G5EG	PAL	English	Date/Month/Year	
i)	DMC-G5GC	PAL	English	Date/Month/Year	
j)	DMC-G5GD	NTSC	Korean	Year/Month/Date	
k)	DMC-G5GH	PAL	English	Date/Month/Year	
l)	DMC-G5GK	PAL	Chinese (simplified)	Year/Month/Date	
m)	DMC-G5GN	PAL	English	Date/Month/Year	
n)	DMC-G5GT	NTSC	Chinese (Traditional)	Year/Month/Date	

4 Specifications

The following specification is for DMC-G5PP/G5KPP/G5XPP.

Some specifications may differ depending on model suffix.

Power Source:	DC 8.4 V
Power Consumption:	2.9 W (When recording with LCD Monitor) [When the Interchangeable lens (H-PS14042) is used] 3.0 W (When recording with LCD Monitor) [When the Interchangeable lens (H-FS014042) is used] 2.5 W (When playing back with LCD Monitor) [When the Interchangeable lens (H-PS14042) is used] 2.6 W (When playing back with LCD Monitor) [When the Interchangeable lens (H-FS014042) is used]

Camera effective pixels	16,050,000 pixels
Image sensor	4/3" Live MOS sensor, total pixel number 18,310,000 pixels, Primary color filter
Digital Zoom	Max. 4×
Extra Tele Conversion	When taking still pictures: Max. 2× (When a picture size of [S] (4 M), aspect ratio of [4:3] is selected.) When recording motion pictures: ON/OFF simple enlargement (compatible with lenses from other manufacturers)
Focus	Auto Focus/Manual Focus, Face Detection/AF Tracking/23-area-focusing/1-area-focusing/Pinpoint (Touch focus area selection possible)
Shutter system	Focal-plane shutter
Burst recording	
Burst speed	20 pictures/second (Super high speed), 6 pictures/second (High speed), 3.7 pictures/second (Middle speed), 2 pictures/second (Low speed)
Number of recordable pictures	Max. 9 pictures (when there are RAW files) Depends on the capacity of the card (when there are no RAW files)
ISO sensitivity (Standard Output Sensitivity)	AUTO/100/160/200/400/800/1600/3200/6400/12800 (1/3 EV step change possible)

Minimum Illumination	Approx. 9 lx (when i-Low light is used, the shutter speed is 1/30th of a second) [When the Interchangeable lens (H-PS14042) is used] Approx. 9 lx (when i-Low light is used, the shutter speed is 1/30th of a second) [When the Interchangeable lens (H-FS014042) is used]
Shutter speed	B (Bulb) (Max. approx. 120 seconds), 60 seconds to 1/4000th of a second Taking still pictures during motion picture recording Motion picture priorities: 1/30th of a second to 1/16000th of a second Still picture priorities: B (Bulb) (Max. approx. 120 seconds), 60 seconds to 1/4000th of a second
Metering range	EV 0 to EV 18
White Balance	Auto White Balance/Daylight/Cloudy/Shade/Incandescent lights/Flash/White set1/White set2/White Balance K set
Exposure (AE)	Program AE (P)/Aperture-priority AE (A)/Shutter-priority AE (S)/Manual exposure (M)/AUTO Exposure Compensation (1/3 EV Step, -5 EV to +5 EV)
Metering Mode	Multiple/Center weighted/Spot
LCD monitor	3.0" TFT LCD (3:2) (Approx. 920,000 dots) (field of view ratio about 100%) Touch screen
Viewfinder	Color LCD Viewfinder (Approx. 1,440,000 dots) (field of view ratio about 100%) (with diopter adjustment -4 to +4 diopter)
Flash	Built-in pop up flash GN 10.5 equivalent (ISO160·m) Flash range: Approx. 30 cm (0.99 feet) to 9.4 m (30.8 feet) [When the Interchangeable lens (H-PS14042) is mounted, WIDE, [ISO AUTO] is set] Flash range: Approx. 50 cm (1.65 feet) to 9.4 m (30.8 feet) [When the Interchangeable lens (H-FS014042) is mounted, WIDE, [ISO AUTO] is set] AUTO, AUTO/Red-Eye Reduction, Forced ON, Forced ON/Red-Eye Reduction, Slow Sync., Slow Sync./Red-Eye Reduction, Forced OFF
Flash synchronization speed	Equal to or smaller than 1/160th of a second
Microphone	Stereo
Speaker	Monaural
Recording media	SD Memory Card/SDHC Memory Card/SDXC Memory Card

Picture size	
Still picture	When the aspect ratio setting is [4:3] 4608×3456 pixels, 3264×2448 pixels, 2336×1752 pixels When the aspect ratio setting is [4:2] 4608×3072 pixels, 3264×2176 pixels, 2336×1560 pixels When the aspect ratio setting is [16:9] 4608×2592 pixels, 3264×1840 pixels, 1920×1080 pixels When the aspect ratio setting is [1:1] 3456×3456 pixels, 2448×2448 pixels, 1744×1744 pixels
Recording quality	
Motion pictures	[AVCHD] When set to [PSH]: 1920×1080 pixels (60p recording/ Approx. 28 Mbps)/ When set to [FSH]: 1920×1080 pixels (60i recording/ Approx. 17 Mbps)/ When set to [FPH]: 1920×1080 pixels (30p recording/ Approx. 17 Mbps)/ When set to [SH]: 1280×720 pixels (60p recording/ Approx. 17 Mbps) [MP4] When set to [FHD]: 1920×1080 pixels (30 frames/sec., Approx. 20 Mbps)/ When set to [HD]: 1280×720 pixels (30 frames/sec., Approx. 10 Mbps)/ When set to [VGA]: 640×480 pixels (30 frames/sec., Approx. 4 Mbps)
Quality	RAW/RAW+ Fine/RAW+ Standard/Fine/Standard/MPO+ Fine/ MPO+ Standard
Recording file format	
Still Picture	RAW/JPEG (based on "Design rule for Camera File system", based on "Exif 2.3" standard, DPOF corresponding)/MPO
Motion pictures	AVCHD/MP4
Audio compression	AVCHD Dolby® Digital (2 ch) MP4 AAC (2 ch)
Interface	
Digital	"USB 2.0" (High Speed)
Analog video/audio	NTSC Audio line output (monaural)
Terminal	
[REMOTE]	φ 2.5 mm jack
[AV OUT/DIGITAL]	Dedicated jack (8 pin)
[HDMI]	MiniHDMI TypeC

Dimensions	Approx. 119.9 mm (W)×83.2 mm (H)×70.8 mm (D) [4.72" (W)×3.28"(H)×2.79" (D)] (excluding the projecting parts)
Mass (weight)	Approx. 396 g/0.87 lb [with the card and battery] Approx. 346 g/0.76 lb (camera body) Approx. 491 g/1.08 lb [with the Interchangeable lens (H-PS14042), card and battery] Approx. 561 g/1.24 lb [with the Interchangeable lens (H-FS014042), card and battery]
Operating temperature	0 °C to 40 °C (32 °F to 104 °F)
Operating humidity	10%RH to 80%RH
Language select	[ENGLISH]/[ESPAÑOL]/[PORTUGUÊS]

Battery Charger (Panasonic DE-A79B):

Information for your safety

Input:	~ 110 V to 240 V, 50/60 Hz, 0.2 A
Output:	===8.4 V, 0.65 A

Equipment mobility: Movable

Battery Pack (lithium-ion) (Panasonic DMW-BLC12PP):

Information for your safety

Voltage/capacity:	7.2 V/1200 mAh
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Interchangeable Lens (H-PS14042)

“LUMIX G X VARIO PZ 14–42 mm/F3.5–5.6 ASPH./POWER O.I.S.”

Focal length	f=14 mm to 42 mm (35 mm film camera equivalent: 28 mm to 84 mm)
Aperture type	7 diaphragm blades/circular aperture diaphragm
Aperture range	F3.5 (Wide) to F5.6 (Tele)
Minimum aperture value	F22
Lens construction	9 elements in 8 groups (4 aspherical lenses, 2 ED Lens)
Nano surface coating	Yes
In focus distance	0.2 m (0.66 feet) (Wide to focal length 20 mm) to ∞ (from the focus distance reference line), 0.3 m (0.99 feet) (focal length 21 mm to Tele) to ∞ (from the focus distance reference line)
Maximum image magnification	0.17× (35 mm film camera equivalent: 0.34×)
Optical Image Stabiliser	Available
[O.I.S.] switch	None (Setting of the [Stabilizer] is done in [Rec] menu.)
Mount	“Micro Four Thirds Mount”
Angle of view	75° (Wide) to 29° (Tele)
Filter diameter	37 mm (1.46 inch)
Max. diameter	Approx. 61 mm (2.40 inch)
Overall length	Approx. 26.8 mm (1.06 inch) (from the tip of the lens to the base side of the lens mount when the lens barrel is recessed)
Mass (weight)	Approx. 95 g/0.21 lb

Interchangeable Lens (H-FS014042)

“LUMIX G VARIO 14–42 mm/F3.5–5.6 ASPH./MEGA O.I.S.”

Focal length	f=14 mm to 42 mm (35 mm film camera equivalent: 28 mm to 84 mm)
Aperture type	7 diaphragm blades/circular aperture diaphragm
Aperture range	F3.5 (Wide) to F5.6 (Tele)
Minimum aperture value	F22
Lens construction	12 elements in 9 groups (1 aspherical lens)
In focus distance	0.3 m (0.99 feet) to ∞ (from the focus distance reference line)
Maximum image magnification	0.16× (35 mm film camera equivalent: 0.32×)
Optical Image Stabiliser	Available
[O.I.S.] switch	None (Setting of the [Stabilizer] is done in [Rec] menu.)
Mount	“Micro Four Thirds Mount”
Angle of view	75° (Wide) to 29° (Tele)
Filter diameter	52 mm (2.05 inch)
Max. diameter	Approx. 60.6 mm (2.39 inch)
Overall length	Approx. 63.6 mm (2.50 inch) (from the tip of the lens to the base side of the lens mount)
Mass (weight)	Approx. 165 g/0.36 lb

Interchangeable Lens (H-FS45150)

“LUMIX G VARIO 45–150 mm/F4.0–5.6 ASPH./MEGA O.I.S.”

Focal length	f=45 mm to 150 mm (35 mm film camera equivalent: 90 mm to 300 mm)
Aperture type	7 diaphragm blades/circular aperture diaphragm
Aperture range	F4.0 (Wide) to F5.6 (Tele)
Minimum aperture value	F22
Lens construction	12 elements in 9 groups (2 aspherical lenses, 1 UHR Lens)
In focus distance	0.9 m (3.0 feet) to ∞ (from the focus distance reference line)
Maximum image magnification	0.17× (35 mm film camera equivalent: 0.35×)
Optical Image Stabiliser	Available
[O.I.S.] switch	None (Setting of the [Stabilizer] is done in [Rec] menu.)
Mount	“Micro Four Thirds Mount”
Angle of view	27° (Wide) to 8.2° (Tele)
Filter diameter	52 mm (2.05 inch)
Max. diameter	Approx. 62 mm (2.44 inch)
Overall length	Approx. 73 mm (2.87 inch) (from the tip of the lens to the base side of the lens mount)
Mass	Approx. 200 g/0.44 lb

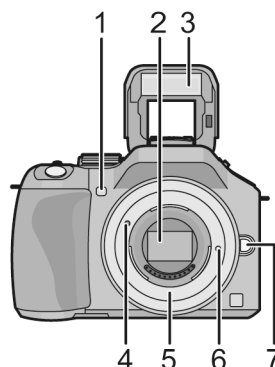
5 Location of Controls and Components

The following description is for DMC-G5PP/G5KPP/G5XPP.

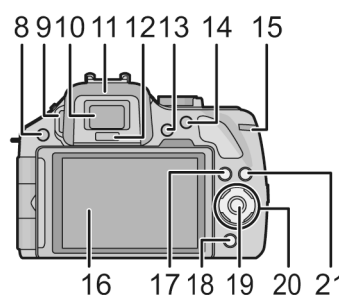
Some descriptions may differ depending on model suffix.

■ Camera body

- 1 Self-timer indicator/
AF Assist Lamp
- 2 Sensor
- 3 Flash
- 4 Lens fitting mark
- 5 Mount
- 6 Lens lock pin
- 7 Lens release button



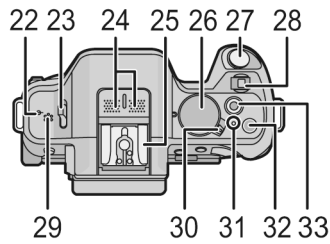
- 8 [LVF/LCD] button/
[Fn3] button
- 9 Diopter adjustment dial
- 10 Viewfinder
- 11 Eye Cup
- 12 Eye sensor
 - When [LVF/LCD Auto] of [Eye Sensor] in the [Custom] menu is set to [ON] and your eye or an object is brought close to the viewfinder, the display automatically switches to the viewfinder display.



- 13 [Q.MENU] button
- 14 [AF/AE LOCK] button/
[Fn1] button
- 15 Rear dial
- 16 Touch screen/LCD monitor
- 17 Playback button
- 18 button/
[Fn2] button
- 19 [MENU/SET] button
- 20 Cursor buttons
 - ▲/ISO button
 - ▶/WB (White Balance)
 - ◀/AF Mode button
 - ▼/[Drive Mode] button

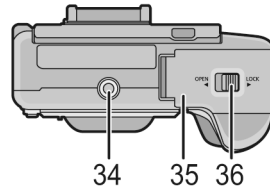
This button in picture record mode will allow the user to select between the following options.
Single/Burst/Auto bracket/Self-timer
- 21 [DISP.] button

- 22 Focus distance reference mark
- 23 Flash open lever
- 24 Stereo microphone
 - Be careful not to cover the microphone with your finger. Doing so may make sound difficult to record.



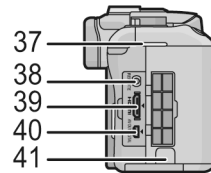
- 25 Hot shoe
- 26 Mode dial
- 27 Shutter button
- 28 Function lever
- 29 Speaker
 - Be careful not to cover the speaker with your finger. Doing so may make sound difficult to hear.

- 30 Camera ON/OFF switch
- 31 Status indicator
- 32 Intelligent Auto button
- 33 Motion picture button
- 34 Tripod mount
 - A tripod with a screw length of 5.5 mm (0.22 inch) or more may damage this unit if attached.
- 35 Card/Battery door
- 36 Release lever



- 37 Shoulder strap eyelet
 - Be sure to attach the shoulder strap when using the camera to ensure that you will not drop it.

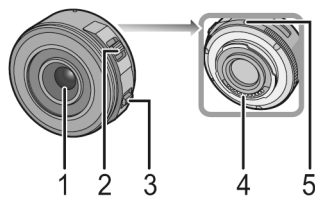
- 38 [REMOTE] socket
- 39 [HDMI] socket
- 40 [AV OUT/DIGITAL] socket
- 41 DC coupler cover



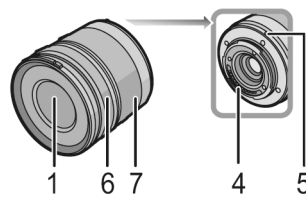
- When using an AC adaptor, ensure that the Panasonic DC coupler (DMW-DCC8: optional) and AC adaptor (DMW-AC8PP: optional) are used.
- Always use a genuine Panasonic AC adaptor (DMW-AC8PP: optional).
- It is recommended to use a fully charged battery or AC adaptor when recording motion pictures.
- If while recording motion pictures using the AC adaptor and the power supply is cut off due to a power outage or if the AC adaptor is disconnected etc., the motion picture will not be recorded.

■ Lens

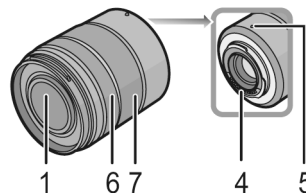
H-PS14042



H-FS014042



H-FS45150



- 1 Lens surface
- 2 Zoom lever
- 3 Focus lever
- 4 Contact point
- 5 Lens fitting mark
- 6 Focus ring
- 7 Zoom ring

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.

(i.e., when the unit is powered on by the battery, the battery is pulled out)

The error code is memorized to Flash-ROM when the unit has just before powered off.

2. How to display

The error code can be displayed by ordering the following procedure:

• Preparation

Attach the fully charged Battery, and insert the SD memory card.

• Step 1. The temporary cancellation of "INITIAL SETTINGS":

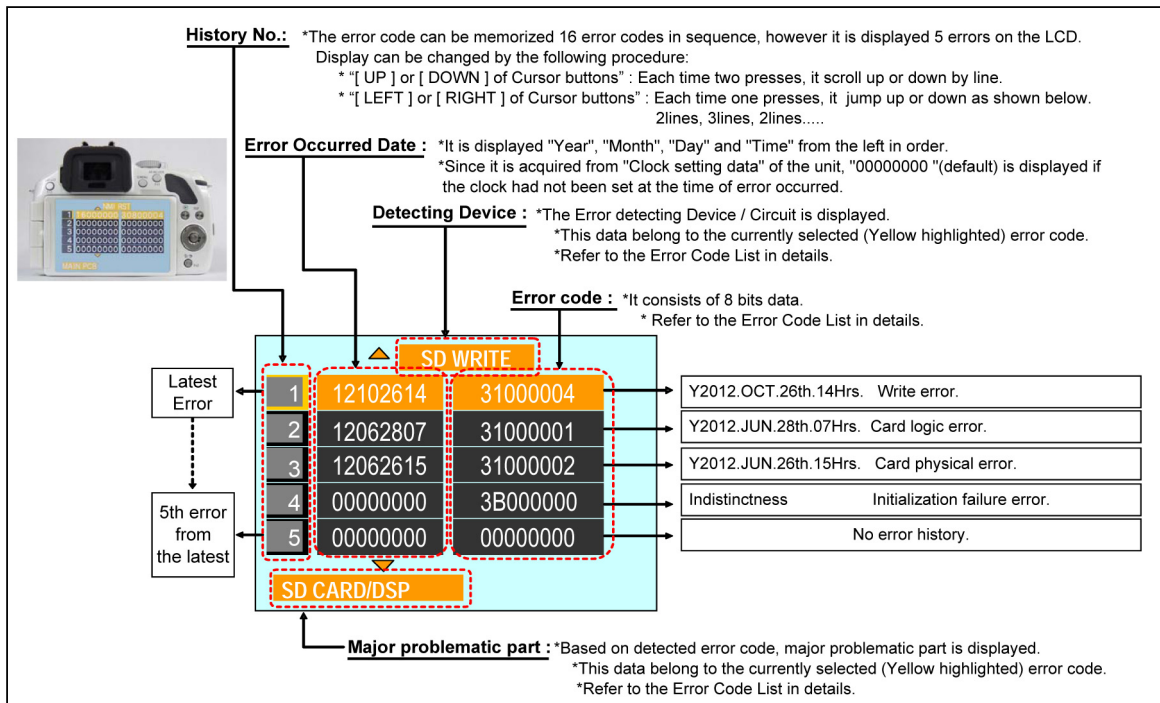
While keep pressing [DISP.], [AF/AE LOCK] and "[RIGHT] of Cursor buttons" simultaneously, turn the Power on.

• Step 2. Execute the error code display mode:

Press [MENU/SET], "[LEFT] of Cursor buttons" and [AF/AE LOCK] simultaneously with the step 1 condition.

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

Normal display → Error code display → Camera information display → Normal display →



Example of Error Code Display

3. Error Code List:

The error code consists of 8 bit data and it shows the following information.

Attribute	Main item	Sub item	Error code		Contents (Upper line)	Error Indication	
			High 4 bits	Low 4 bits		Detecting device	Problematic Part/Circuit
HARD	VENUS A/D FLASH ROM	Flash	28*0	0000	Flash charging capacitor did not been fully charged within 20 seconds.	STRB CHG	STRB PCB/FPC
		Data Area	2B*0	0001	Flash ROM data reading error is detected when the unit turns ON.	FROM RE	FROM
		Program Area		0002	Flash ROM data writing error is detected when the unit turns OFF.	FROM WR	FROM
	SYSTEM IC	Initialization	2C*0	0001	Clock IC initialization failure error.	(No indication)	(No indication)
SOFT	CPU	Reset	30*0	0001	System error (NMI reset).	SYS INIT	MAIN PCB
				0007		NMI RST	MAIN PCB
	Recording Media	SD Memory Card	31*0	0001	SD memory card logic error. SD memory card format error. When it is detected, [MEMORY CARD ERROR FORMAT THIS CARD?] is displayed on the screen.	SD CARD	SD CARD/DSP
				0002	SD memory card physical error. During formatting the SD memory card, there is no response from the card. If the mini-SD memory card is used,check the SD memory card adaptor.		SD CARD/DSP
				0004	SD memory card writing error. Check the SD memory card. It might be damage one.	SD WRITE	SD CARD/DSP
	Lens	Communication	3C11 3C70 3C91 3CF0	****	Lens communication error.	ZOOM	ZOOMm/LENSu

	Camera	System	3B*0 3E*0	0000	Initialization failure error.	INIT	(No indication)
				0001	Exposure charging operation failure.(Mount Box Unit)	(No indication)	(No indication)
				0002	Failure of the returning operation to the home position.(Mount Box Unit)		
0003				Failure of the mecha shutter sensor.(Mount Box Unit)			
Recording	Motion Image Recording	3F*0	0001	File time out error in recording motion image.			
			0002	File data cue send error in recording motion image.			

Important notice about “Error Code List”

About “*” indication:

The third digit from the left is different as follows.

- In case of 0 (example: 2B001000)

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: 2B801000)

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.

4. How to exit from Error Code display mode:

Simply, turn the power off. (Since Error Code display mode is executed under the condition of temporary cancellation of “INITIAL SETTINGS”, it wake up with normal condition when turn off the power.)

NOTE:

The error code can not be initialized.

7 Troubleshooting Guide

7.1. Checking Method of Body and Interchangeable Lens

1. INITIAL (DEFAULT) STATUS OF THE LENS UNIT

The Lens unit which is supplied as a standard accessory for this camera unit (H-PS14042, H-FS014042, H-FS45150) shows the following status when the Lens is detached from the Camera unit.

NOTE: Although the lens unit is attached it shows the same condition when the Camera turns off.

H-PS14042 (Included in DMC-G5X):

- [1]. ZOOM RING As H-PS14042 is an electric-powered zoom lens, there is no zoom ring.
(The lens barrel is retracted.)
- [2]. FOCUS RING There is no focus ring.

H-FS014042 (Included in DMC-G5K and DMC-G5W):

- [1]. ZOOM RING When the Zoom ring is rotated, Zoom condition is changing accordingly.
(The 1st lens frame moves.)
[Focal length : 14mm to 42mm [35mm film camera equivalent: 28mm to 84mm]]
- [2]. FOCUS RING The Focus condition does not changed although Focus ring is rotated. (Free rotation.)

H-FS45150 (Included in DMC-G5W):

- [1]. ZOOM RING When the Zoom ring is rotated, Zoom condition is changing accordingly.
(The 1st lens frame moves.)
[Focal length : 45mm to 150mm [35mm film camera equivalent: 90mm to 300mm]]
- [2]. FOCUS RING The Focus condition does not changed although Focus ring is rotated. (Free rotation.)

2. INITIAL INSPECTION TIPS (BEFORE DETERMINE THE UNIT BEING FAULTY/DEFECTIVE) :

Since this unit is equipped with various functions/settings, some phenomenon/effect might be caused by miss usage of function and/or settings. It might be made a miss-judgement caused by miss usage of function & settings although the unit is working properly without fault.

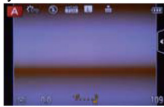

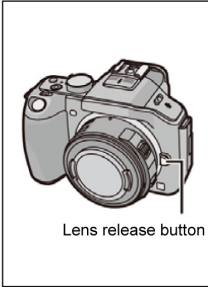

Therefore, check/confirm the followings before concluding/determine the unit being faulty/defective.

NOTE: Refer to the Operating Instructions carefully.

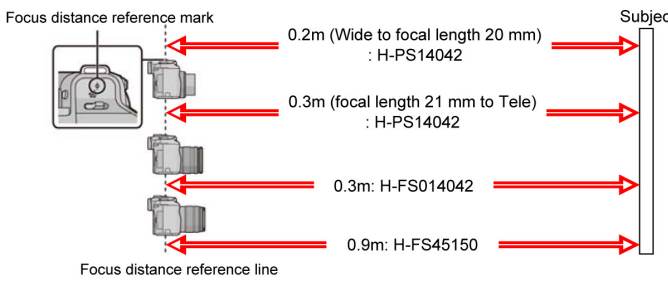


Also, useful hint/tips for this unit is available at following URL, and is updated frequently.
<http://panasonic.jp/support/global/cs/dsc/>




If it is hard to determine whether the resolution is out of specification or not, proceed the "RESOLUTION INSPECTION", before replacing the LENS MAIN BLOCK UNIT and/or MOUNT BOX UNIT. (The unit might be mishandling, dropping or others.)

[1]. [LENS RELATIVES]

TITLE	ITEMS	DESCRIPTION
LENS	Aperture size does not changed. (Although aperture value is changed, the physical size of aperture is never changed.)	*Although aperture value is changed, the physical size of aperture is never changed (It keeps the maximum aperture condition) until the shutter release button is fully released. (There is no "aperture stopping down" button. But instead, there are aperture effect preview function and shutter speed effect preview function.) ⇒ [Custom Menu] (1/8) ----- [Fn Button Set] (PREVIEW)
	The Aperture condition does not changed. (Aperture value shows "A0.0")	*The Lens & Body are communicating (serial communication) through mount contacts (11pins). *Confirm that lens & body mount contacts are not dirty. *While keep pressing the [Lens release] button, it makes same situation that Lens does not attached. *Although lens is attached to the body, the Aperture value shows "0.0" when the communication error is occurred. Also, when the firmware version confirmation mode is executed, the [- -] is displayed as Lens firmware version.  Aperture value is fixed at [0.0]  Firmware version shows [LENS FIRMWARE : - -]  Lens release button
	Although the Focus ring is rotating, it does not change the Focus condition.	*The Focus condition is never changed although focus ring is rotated when the Focus mode is set to AFS or AFC. (When the [AF + MF] is set to [ON], it is able to fine adjust the focus manually by rotating the focus ring while AF lock.) ⇒ [Custom Menu] (5/8) ----- [AF + MF] (ON/OFF)
	No released without lens attachment.	*It is able to release the shutter button without attaching the lens unit. ⇒ [Custom Menu] (8/8) ----- [Shoot w/o Lens] (ON/OFF)
	The Dusty and/or dirty of the Lens	*Define the location of the dirt / dust of the lens first, whether it is outside surface of the lens or not. If it is outside surface of the lens, order the following procedure in steps. STEP-1. Blow off the dust certainly with Hand Blower. STEP-2. Clean and wipe up the Lens surface by using the Lens cleaning Kit (VFK1900BK). *Refer to the "11 Maintenance" of this manual.  [Wiping up the lens surface] Like drawing the circle, wipe up the lens surface centre towards to outside slowly.
It does not become the Shutter speed [B] (Bulb) mode.	*It is only able to select the shutter speed to [B](Bulb) when mode is set to [M] (Manual) and drive mode is set to [SINGLE]. ([B] mode: the shutter stays open while the shutter button is pressed fully (up to about 4 minutes). The shutter closes if you release the shutter button.)	






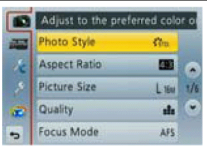
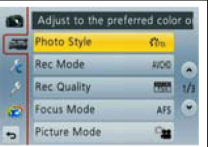

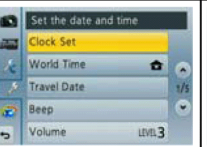
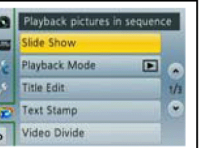
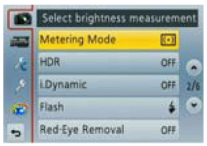
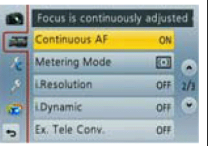
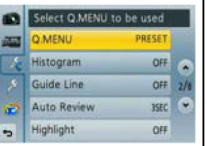
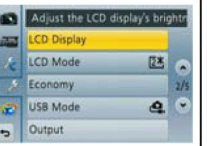
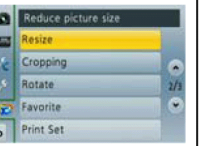

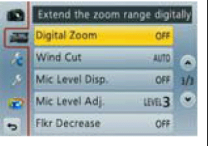
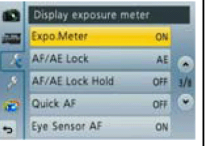
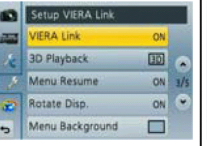
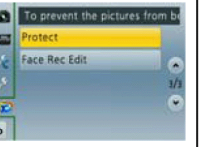
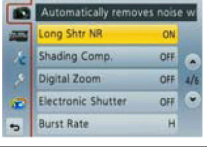
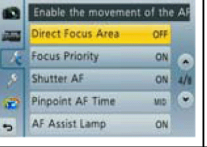
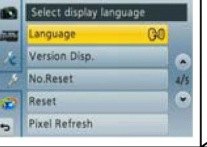
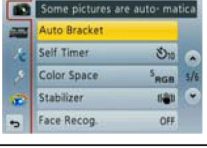
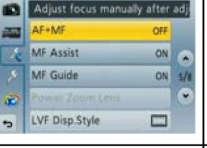
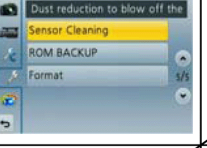
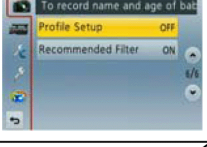
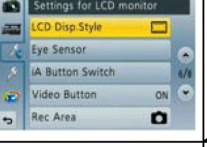
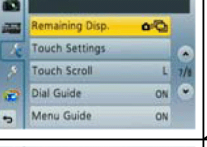
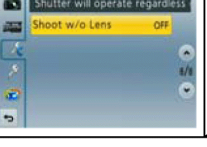
[2]. [BODY RELATIVES]

TITLE	ITEMS	DESCRIPTION
FOCUS	The picture is out of focus although the focus is adjusted in MF mode at once.	<p>*In the following conditions, the focus may be out of focus, no matter the kind of subject. Therefore, adjust the focus again by rotating the Focus ring.</p> <p>*After "in-focus" condition, Zoom condition has been changed.</p> <p>*Power switch is turned OFF and ON again.</p> <p>*After releasing the Power save.</p>
	Focus does not become in focus condition.	<p>*If the shooting distance is less than the Minimum requirement distance for focus, the focus may not be brought into focus, no matter the kind of subject.</p> 
	MF(Manual Focus)ASSIST does not work.	<p>*The MF assist function is that the certain area image is able to enlarge 4/5/10 times to make easier to focus. (It can be changed enlarged value by rotating the rear dial or clicking the loupe icons on display.)</p> <p>*It does not activated if the [Focus Mode] is set to other than [MF] mode.</p> <p>*It does not activated when using the Digital Zoom.</p> <p>*It does not activated if [MF Assist] is set to OFF.</p> <p>⇒ [Custom Menu] (5/8) ----- [MF Assist] (ON/OFF)</p> <p>(To display the MF assist, press Left cursor button then press [MENU/SET].)</p> 
	Face detection does not work.	<p>*Select AF mode to face detection. (In [iA]mode, it is automatically assigned according with scene.) (Press the left side cursor button to display the AF mode menu.)</p> <p>*It does not activated when using the Digital Zoom.</p> <p>*It does not activated if the focus mode is set to MF.</p>
	The subject is not focused properly.	<p>*When get a fingerprint, dirt on the lens surface, resulting in the subject being out of focus.</p> <p>*The subject is beyond the focus range of the camera.</p> <p>*There is camera shake (jitter) or the subject is moving slightly.</p> <p>*The focus indication green mark is lights at the top right hand corner on the LCD when the subject is focused.</p> <p>*The shutter speed will become slower and the optical image stabilizer function may not work properly when taking pictures especially in dark places.</p>
	Focus does not change.	<p>*Focus & Exposure condition is locked when the [AF / AE LOCK] button is pressed under the condition of [AF/AE Lock Hold] is "On".</p> <p>⇒ [Custom Menu] (3/8) ----- [AF/AE Lock Hold] (ON/OFF)</p> <p>*It can be reset when [AF / AE LOCK] button is pressed again.</p>
	Although [AF/AE LOCK] button is pressed, it does not hold the Focus, only Exposure is locked.	<p>*Focus does not hold even if [AF/AE LOCK] button is pressed if the [AF/AE Lock] is selected [AE].</p> <p>⇒ [Custom Menu] (3/8) ----- [AF/AE Lock] (AE, AF, AF/AE)</p> <p>*In the Manual Focus condition, It is only worked as [AE lock] function.</p>
	It does not turn to the "AFC" mode. (Motion prediction does not work.)	<p>*Confirm the setting of the focus mode (AFS / AFF / AFC / MF).</p> <p>*Although AFC is effective with burst mode, the focus is fixed on the first picture when subject is dark.</p>
Flash	Some of the Flash setting(s) are not able to select.	<p>*In accordance with the [REC] mode and [Flash Synchro] mode, selectable flash settings may be differ.</p>
	[AUTO BRACKET] does not work.	<p>*Only one picture can be taken when the Flash is fired.</p>
	The subject is too bright / too dark with Flash.	<p>*Confirm that the picture is taken within Flash range or not.</p> <p>*Confirm that flash output settings.</p> <p>⇒ [Rec] (3/5) ----- [Flash Adjust.] (1/3 EV Step, -2EV to +2EV)</p>
	The Flash adjustment does not effect.	<p>*Confirm that the picture is taken within Flash range or not.</p>
	White round spots appear on the recording picture	<p>*If you take a picture with flash in a dark place or indoors, white round spots may be appear on the picture caused by the flash reflecting of particles of dust in air. This is not a malfunction.</p> <p>*A characteristic of this is that the number of round spots and their position differ in every picture.</p> 

TITLE	ITEMS	DESCRIPTION
Flash	Colour is strange when the Flash is fired.	<p>*The colour of the subject which is other than Flash reachable distance is not coverage of white balance.</p> <p>*Confirm that [WB Adjustment] setting condition. (Press the cursor [RIGHT] (WB) button, then press the cursor [DOWN] button, in order to execute the [WB ADJUST.] screen.</p> <p>*It also effects to the Flash recording mode as well.</p> 
	The appearance of the light source is strange. (The light source appears ahead the subject.)	<p>*Normally, the light source appears ahead the subject. (This is the effect of the 1st curtain synchro.)</p> <p>*The Flash synchro mode can be selected. ⇒ [Rec] (3/5) ----- [Flash Synchro] (1ST / 2ND)</p> 
EXPOSURE	The Exposure condition can not be changed	<p>*Focus & Exposure condition is locked when the [AF/AE LOCK] button is pressed under the condition of [AF/AE Lock Hold] is "On". ⇒ [Custom Menu] (3/8) ----- [AF/AE Lock Hold] (ON/OFF)</p> <p>*It can be reset when [AF/AE LOCK] button is pressed again.</p>
	Although [AF/AE LOCK] button is pressed, only focus is locked. (AE is not locked)	<p>*Focus does not hold even if [AF/AE LOCK] button is pressed if the [AF/AE Lock] is set to [AF]. ⇒ [Custom Menu] (3/8) ----- [AF/AE Lock] (AE, AF, AF/AE)</p> <p>*In the Manual Focus condition, It is only worked as [AE lock] function, regardless any settings.</p>
	The pictures recorded with [AUTO BRACKET] function are too dark/bright.	<p>*The [AUTO BRACKET] is selected after setting the [EXPOSURE COMPENSATION], the compensated value is effected for its reference value.</p>
	The Exposure condition is changed extremely.	<p>*Spot metering mode is measuring only the limited narrow area on the centre of the screen.</p> <p>*Confirm the setting condition of [EXPOSURE COMPENSATION] (1/3 EV Step, -3EV to +3EV)</p>
CAPTURING	Although shutter is released, no picture is captured.	<p>*Although the shutter button is fully pressed, it can not take a picture until the subject is not focused. (It is able to take a picture when the Focus Priority turns [OFF] although focus condition does not perfect.) OFF is gives priority to the best time to take a picture.</p> <p>*A picture is not taken until the subject is brought into focus, because [Focus Priority] is fixed to [ON] in Intelligent Auto Mode. ⇒ [Custom Menu] (4/8) ----- [Focus Priority] (ON/OFF)</p>
	[AUTO BRACKET] does not work.	<p>*Only single picture is able to captured when flash is fired.</p> <p>*It can not be used in My colour mode.</p> <p>*The exposure may not be compensated with auto bracket depending on the brightness of the subject.</p>
COLOUR REPRODUCTION	Colour is strange.	<p>*There is a possibility that [Finely adjusting the white balance] is selected/shifted.</p> <p>*Confirm that [WB Adjustment] setting condition. (Press the cursor [RIGHT] (WB) button, then after choosing the WB mode press the cursor [DOWN] button, in order to execute the [WB ADJUST.] screen.)</p> <p>*It is resumed/memorized although power turns off/on.</p> 
	Colour is strange. (With Flash)	<p>*The flash light does not reach enough to the subject due to the over than flash reachable distance. In this case, white balance may be other than its coverage.</p>
	The colour is strange (On PC monitor/ Printout image.)	<p>*There is a possibility that the picture is captured with [AdobeRGB] setting. ⇒ [Rec] (5/6) ----- [Color Space] (sRGB/AdobeRGB)</p> <p>*To proceed proper colour reproduction for AdobeRGB, the AdobeRGB capable PC and Printer are necessary.</p> <p>*In accordance with PC environment, it may not be displayed properly when the picture is re-sized with business software.</p>
POWER	The Power is turned off.	<p>*Confirm that the setting condition of [Sleep Mode]. (If the camera has not been used for the time selected on the setting, the power turns off automatically.) ⇒ [Setup] (2/5) ----- [Economy] [Sleep Mode] (OFF/1MIN./2 MIN./5 MIN./10 MIN.)</p>
DISPLAY	Abnormal Picture Effect. Certain part of the picture is flashing in Black & White.	<p>*Confirm that the setting condition of [Highlight]. ⇒ [Custom Menu] (2/8) ----- [Highlight] (ON/OFF)</p> <p>The white saturated areas appear blinking in Black and White.</p>
	Firmware version	<p>*Confirm that the firmware versions of the body and lens to be checked. ⇒ [Setup] (4/5) ----- [Version Disp.]</p>

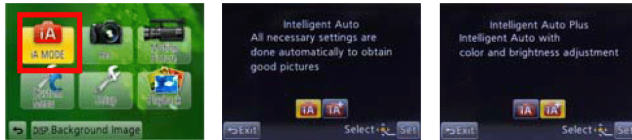
MENU LIST (Quick Reference)

The following menu items are displayed on the LCD monitor.

	 [Rec]	 [Motion Picture]	 [Custom Menu]	 [Setup]	 [Playback]
1st Page					
2nd Page					
3rd Page					
4th Page		/			/
5th Page		/			/
6th Page		/		/	/
7th Page	/	/		/	/
8th Page	/	/		/	/

REMARKS:

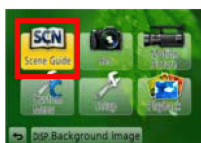
*When pressing the [iA] button and having been illuminated the button, extra-menu groups are displayed. [Intelligent Auto Mode] or [Intelligent Auto Plus Mode] can be selected.



*When the [Intelligent Auto Mode] and [Intelligent Auto Plus Mode], as for [Rec], [Motion Picture] and [Custom Menu], only the basic item is selected. (The menu item which can not be chosen is displayed in gray. When the menu page has no items can be chosen, the page is skipped display.)

	[Rec]	[Motion Picture]	[Custom Menu]	[Setup]	[Playback]
1st Page				Menu items of [Setup] mode are same as Normal.	Menu items of [Playback] mode are same as Normal.
2nd Page					
3rd Page					
4th Page					
5th Page					
6th Page					
7th Page					
8th Page					

*When the mode dial is set to [Scene mode(SCN)], extra-menu groups are displayed.



NOTE:

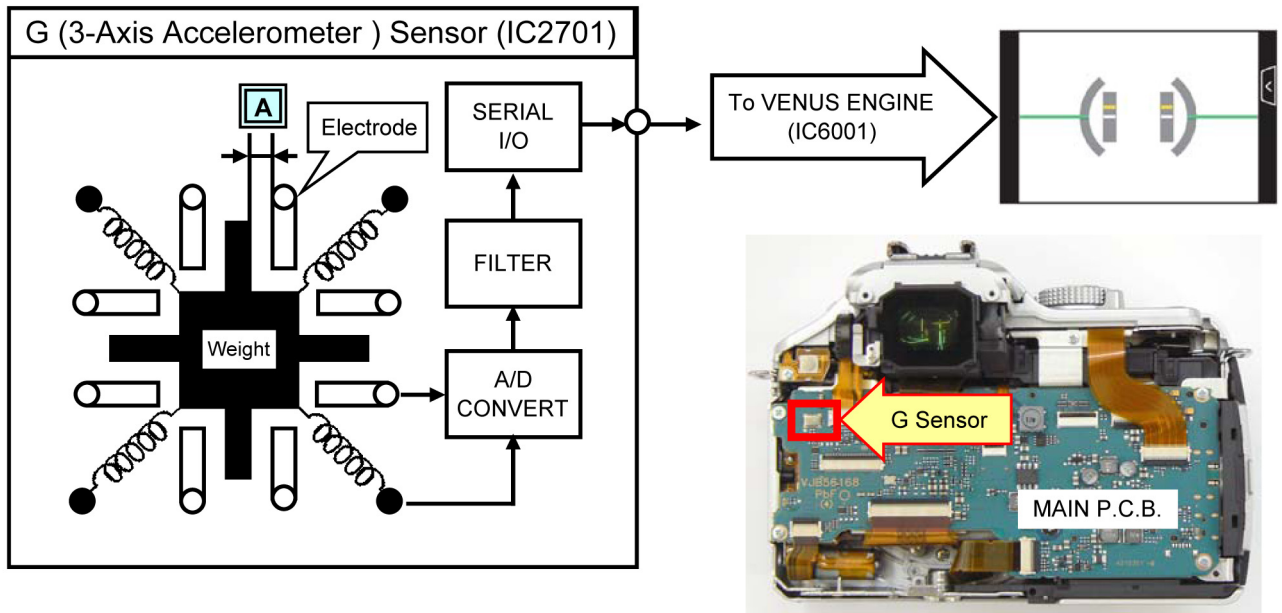
*When set [Menu Resume] in the [Setup] menu to [ON], the screen shows the last selected menu item when the camera is turned off.
⇒ [Setup] (3/5) ----- [Menu Resume] (ON/OFF)

7.2. About Electronic Level

The unit has the electronic level function using G (3-axis accelerometer) sensor inside the unit.

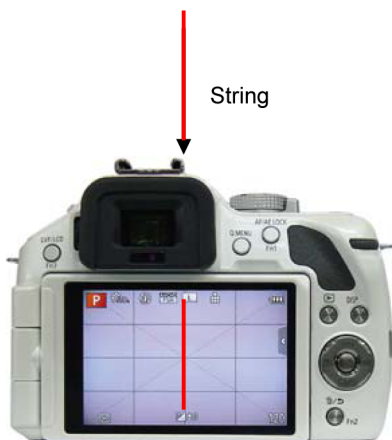
[Principle of Operation]

1. Movement of "Weight" is detected by capacitance. ----- [A]
2. Each acceleration of the X/Y/Z axis is converted into data and they are output.
3. The VENUS ENGINE converts the data into a horizontal angle and an angle of inclination, and displays them to screen.



[Purpose of the adjustment]

- Correct the camera as the horizontal angle and an angle of inclination become within ± 1 degree for a live-view picture.
 1. When the mount box unit or IC9999 (or Main P.C.B.) is replaced, readjustment is necessary.
 2. When the mount box unit, Main P.C.B. or the exterior of the camera is replaced, please confirm following;
 - a. Switch to display the Guidelines in LCD.
 - b. Confirm that the vertical lines in LCD are parallel with string hanging down perpendicularly. If they are significantly shifted, readjustment is necessary.
 - Refer to the adjustment software for procedure of adjustment.
- No special fixture is required. The adjustment can be performed with a table as possible horizontal, the string which hanging down perpendicularly and a general-purpose tripod.



[Test of the G-Sensor working]

- G-Sensor working can be confirmed by G-Sensor data change on the “Edit Memory”.

[Operation]

- (1)-----When you acquire the data of the G-sensor continually, put a checkmark here.
- (2)-----Raw data of G- sensor is displayed.
- (3)-----Roll angle (Horizontal Level) and Pitch angle (Tilt) are displayed.
- (4)-----A posture state of the camera is displayed.



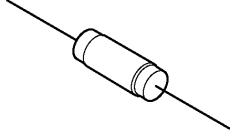
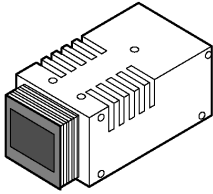

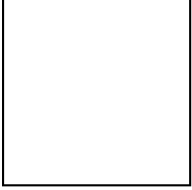
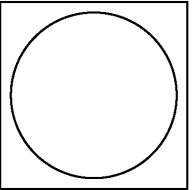
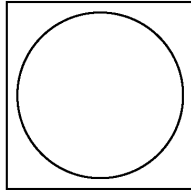
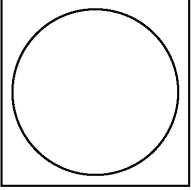
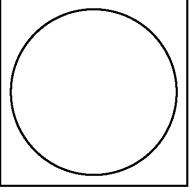

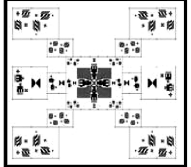
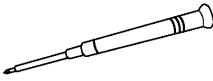



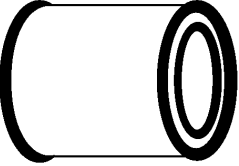
[Confirmation]

1. Put a checkmark in four portions of marked (1) each.
2. Move the camera and confirm the change of each data of (2) and (3).
Above value is one example. The value changes according to dispersion of each G-sensor.
3. When the value (3) is matched with the posture of the camera, G-sensor itself is normal.
If they are significantly different, G-sensor may be defective.

8 Service Fixture & Tools

8.1. Service Fixture and Tools

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

<p>Resistor for Discharging (1k Ω/5W) ERG5SJ102</p>  <p>*An equivalent type of Resistor may be used.</p>	<p>LIGHT BOX RFKZ0523</p>  <p>*VFK1164TDVLB can be used.</p>	<p>ND FILTER 1 VFK1164ND09</p> 
<p>ND FILTER 2 RFKZ0513</p> 	<p>CC FILTER 1 RFKZ0511</p> 	<p>CC FILTER 2 RFKZ0512</p> 
<p>LB FILTER 1 RFKZ0520</p> 	<p>LB FILTER 2 RFKZ0521</p> 	<p>GRAY CARD RFKZ0506</p> 
<p>RESOLUTION CHART RFKZ0510</p>  <p>*Supplied as divided chart parts. (Assemble it before use.)</p>	<p>DRIVER VFK1390</p> 	<p>TORQUE DRIVER RFKZ0456</p>  <p>*Spec.:2-30cN.m (Equiv.0.2-3kgf/cm)</p>
<p>DMC-G1K</p>  <p>*Correspond by the marketed commodity. (It does not supply as service fixture and tools.)</p>	<p>Lens Cleaning Kit (BK) VFK1900BK</p>  <p>*Only supplied 10 set/box.</p>	<p>TOUCH PEN VGQ0C14</p>  <p>*VYQ4370 can be used.</p>
<p>NAME RING FIXTURE RFKZ0507</p> 		

8.2. Clean Box

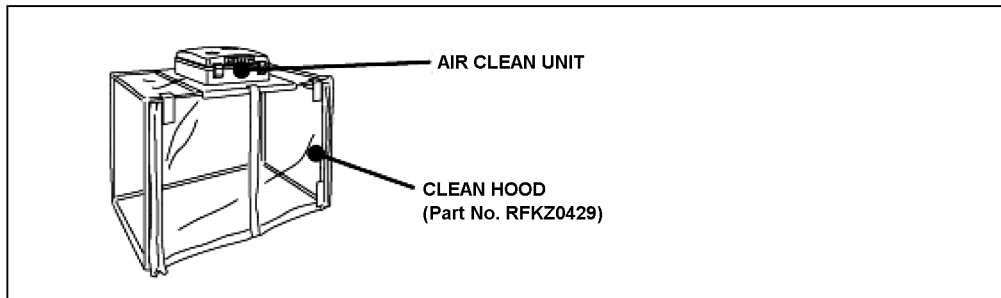
- The repair quality is considered, and it is recommended working in the environment of satisfied clean level less than class 10,000 (Federal Standard 209D).

(When remove the 1st lens frame, it is indispensable.)

[NOTE]

- Work in the environment of satisfied clean level less than class 10,000 (Federal Standard 209D) when remove the 1st lens frame for cleaning.

*Refer to “11.2. General description (Lens cleaning: Interchangeable Lens/H-FS014042)”, “11.3. General description (Lens cleaning: Interchangeable Lens/H-FS45150)”, “11.4. General description (Interchangeable Lens/H-PS14042)” section of this service manual for details.

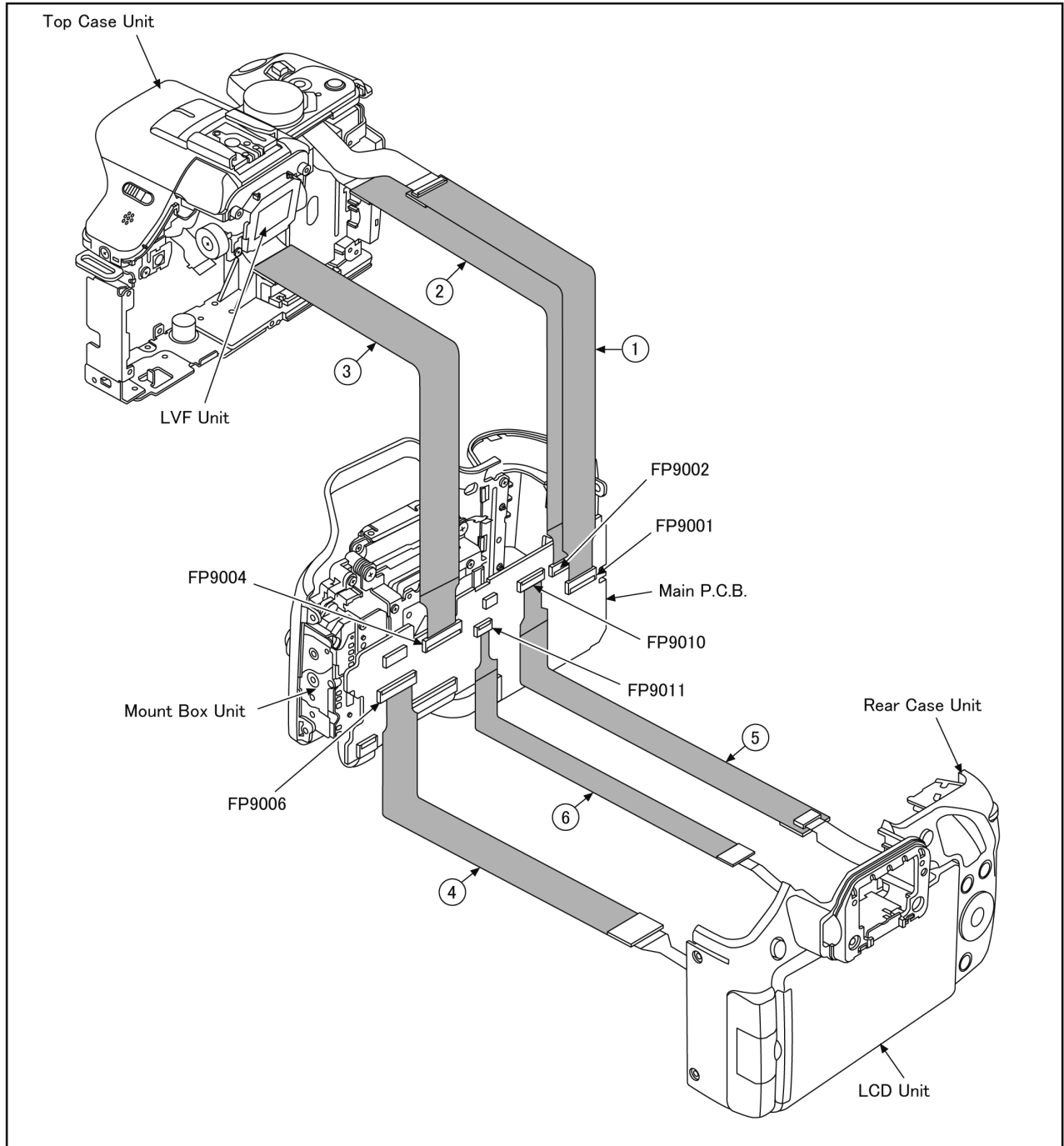


8.3. Service Position

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	VFK1950	FP9001(MAIN) - TOP OPERATION FPC - FP4202(MIC)	33pin 0.3 FFC
2	VFK0977	FP9002(MAIN) - FLASH FPC - FP8501(FLASH)	20pin 0.5 FFC
3	RFKZ0477	FP9004(MAIN) - LVF FPC - LVF UNIT	45pin 0.3 FFC
4	RFKZ0477	FP9006(MAIN) - HINGE FPC - FP7201(LCD IF)	45pin 0.3 FFC
5	VFK1175	FP9010(MAIN) - REAR OPERATION FPC	16pin 0.5 FFC
6	VFK1441	FP9011(MAIN) - EYE FPC - EYE SENSOR	8pin 0.5 FFC



CAUTION-1. (When servicing FLASH P.C.B.)

1. Be sure to discharge the E.capacitor on FLASH P.C.B..
Refer to "HOW TO DISCHARGE THE E.CAPACITOR ON FLASH P.C.B.".
The E.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 P.C.B..
3. DO NOT allow other parts to touch the high voltage circuit on FLASH P.C.B..

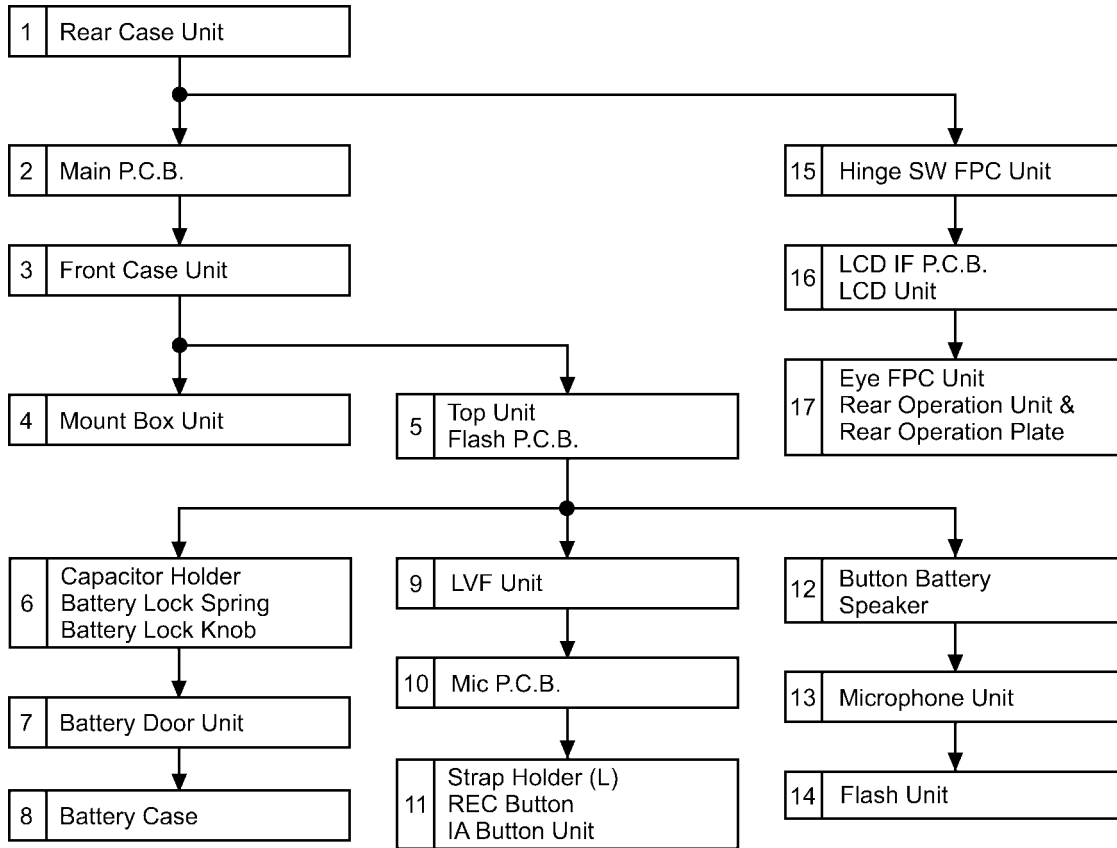
9 Disassembly and Assembly Instructions

9.1. Camera Body Part

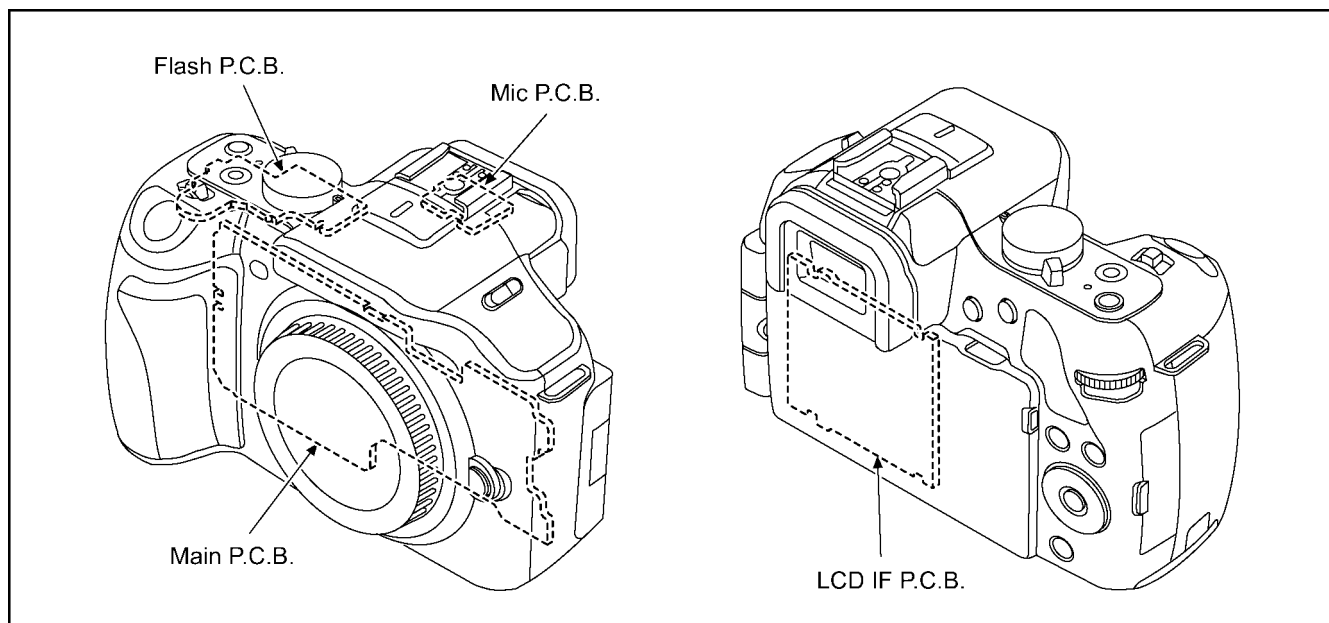
9.1.1. Disassembly Flow Chart

This is a disassembling chart.

When assembling, perform this chart conversely.



9.1.2. P.C.B. Location



9.1.3. Disassembly Procedure

No.	Item	Fig	Removal
1	Rear Case Unit	(Fig. D1)	Card
			Battery
			4 Screws (A)
			4 Screws (B)
		(Fig. D2)	Eye Cup Unit
			2 Screws (C)
			FP9006 (Flex)
			FP9010 (Flex)
			FP9011 (Flex)
			Rear Case Unit
			Main P.C.B.
2	Main P.C.B.	(Fig. D3)	FP9001 (Flex)
			FP9002 (Flex)
			FP9003 (Flex)
			FP9004 (Flex)
			FP9005 (Flex)
			FP9007 (Flex)
			FP9008 (Flex)
			FP9009 (Flex)
			1 Screw (D)
			3 Screws (E)
			1 Screw (F)
Main P.C.B.			
3	Front Case Unit	(Fig. D4)	4 Screws (G)
			Main Heat Sink
			1 Screw (H)
			2 Screws (I)
		(Fig. D5)	Jack Door
			Front Case Unit
		(Fig. D6)	When Installing
4	Mount Box Unit	(Fig. D7)	4 Screws (J)
			Mount Box Unit
		(Fig. D8)	Important Notice
5	Top Unit Flash P.C.B.	(Fig. D9)	2 Screws (K)
			1 Locking Tab
		(Fig. D10)	AF Panel Light
			3 Locking Tabs
			Battery Capacitor Cover
		(Fig. D11)	1 Screw (L)
			1 Screw (M)
			4 Solders
	Top Unit		
	Flash P.C.B.		
6	Capacitor Holder Battery Lock Spring Battery Lock Knob	(Fig. D12)	1 Screw (N)
			1 Locking Tab
			Capacitor Holder
			Battery Lock Spring
			Battery Lock Knob
7	Battery Door Unit	(Fig. D13)	Battry Door Shaft
			Battery Door Spring
			Battery Door Unit
8	Battery Case	(Fig. D14)	1 Locking Tab
			Battery Case
9	LVF Unit	(Fig. D15)	2 Screws (O)
			LVF Unit
10	Mic P.C.B.	(Fig. D16)	FP4201 (Flex)
			FP4202 (Flex)
			1 Screw (P)
			Mic P.C.B.

No.	Item	Fig	Removal	
11	Strap Holder (L) REC Button IA Button Unit	(Fig. D17)	1 Screw (Q)	
			4 Screws (R)	
			Flex	
		(Fig. D18)	Strap Holder (L)	
			3 Ribs	
			Top Frame L Unit	
			REC Button	
			IA Button Unit	
			Power LED Panel	
			Lever Rotor	
12	Button Battery Speaker	(Fig. D19)	2 Screws (S)	
			1 Screw (T)	
			Top Frame R	
			1 Rib	
			1 Locking Tab	
		(Fig. D20)	Top Case	
			SP Holder	
			2 Solders	
			Speaker	
			2 Solders	
13	Microphone Unit	(Fig. D21)	Shoe Spring	
			4 Screws (U)	
		(Fig. D22)	Hot Shoe FPC	
			Hot Shoe Plate	
			4 Solders	
			Top Earth Plate	
			Mic Cushion (C)	
			Microphone Unit	
			Mic Cushion (B)	
			Mic Cushion (A)	
Hot Shoe Unit				
14	Flash Unit	(Fig. D23)	2 Screws (V)	
			Flash Case Top	
			Flash Unit	
15	Hinge SW FPC Unit	(Fig. D24)	2 Screws (W)	
			1 Screw (X)	
			Battery FPC Sheet	
			Hinge Arm Cover	
			2 Screws (Y)	
			Hinge Plate	
		(Fig. D25)	4 Solders	
			1 Screw (Z)	
	7 Ribs			
	Hinge SW FPC Unit			
16	LCD IF P.C.B. LCD Unit	(Fig. D26)	2 Screws (a)	
			2 Screws (b)	
			6 Locking Tabs	
			LCD Case Bottom	
			FP7201 (Flex)	
			LCD Hinge Unit	
			FP7203 (Flex)	
			(Fig. D27)	LCD P.C.B. Sheet
				FP7202 (Flex)
				1 Locking Tab
LCD IF P.C.B.				
	LCD BL Bezel Sheet			
	LCD Unit			

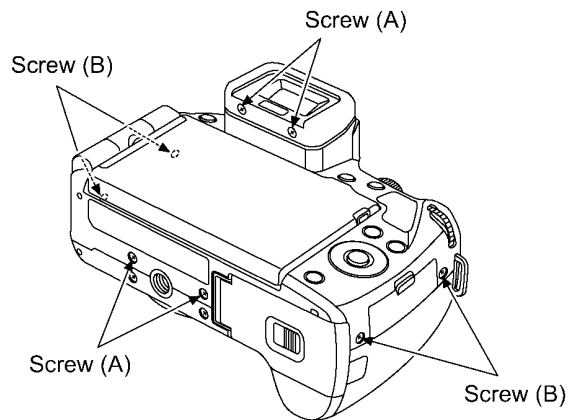
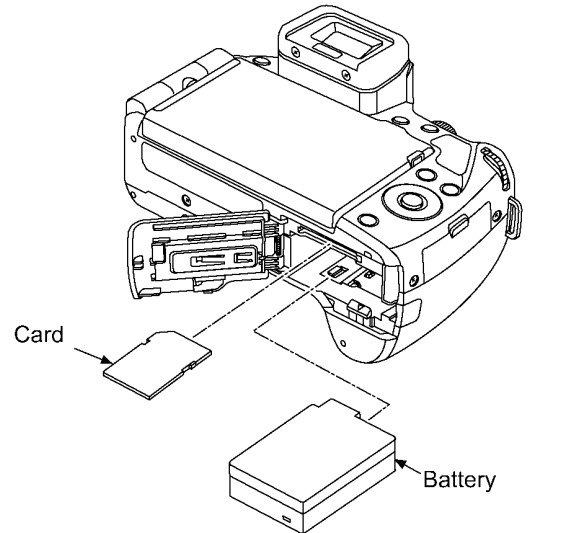
No.	Item	Fig	Removal
17	Eye FPC Unit Rear Operation Unit & Rear Operation Plate	(Fig. D28)	2 Screws (c)
			Rear Earth Plate
			1 Screw (d)
			Eye FPC Unit
			2 Screws (e)
			3 Screws (f)
	(Fig. D29)	Rear Operation Unit & Rear Operation Plate	
		LCD Lock Spring	
		LCD Lock Piece	
		Dial Earth Plate	
		Menu Button Rear Operation Button	



9.1.3.1. Removal of the Rear Case Unit

NOTE:

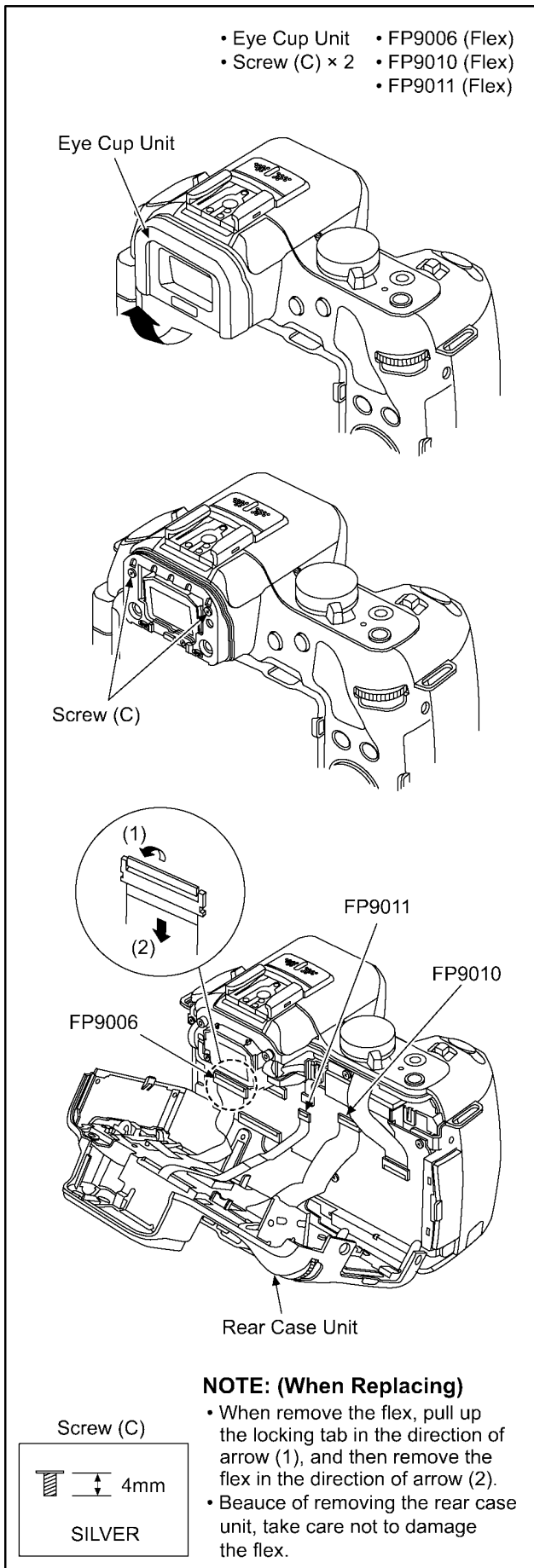
When servicing and reassembling, remove the card and battery from the unit.

- Card
- Battery
- Screw (A) × 4
- Screw (B) × 4

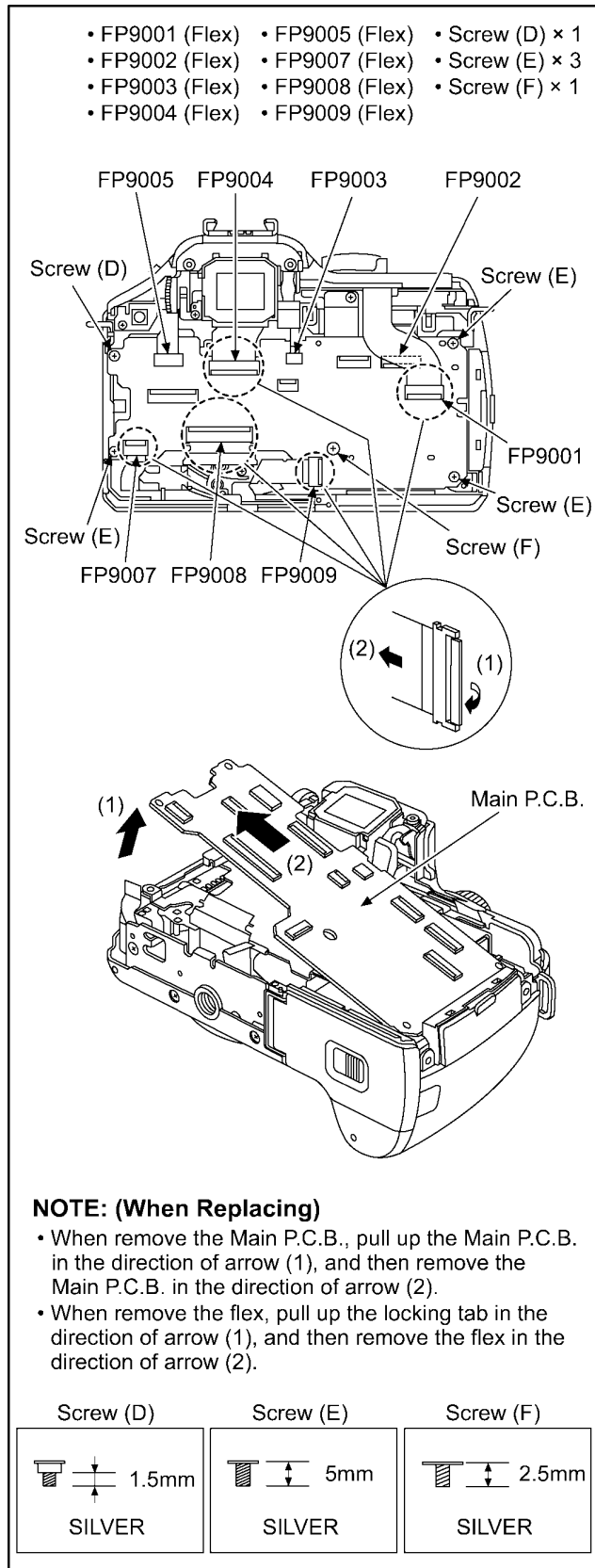


Screw (A)	Screw (B)
 3mm	 4.5mm
Ⓚ: BLACK	Ⓚ: BLACK
ⓈⓌ: SILVER	ⓈⓌ: SILVER

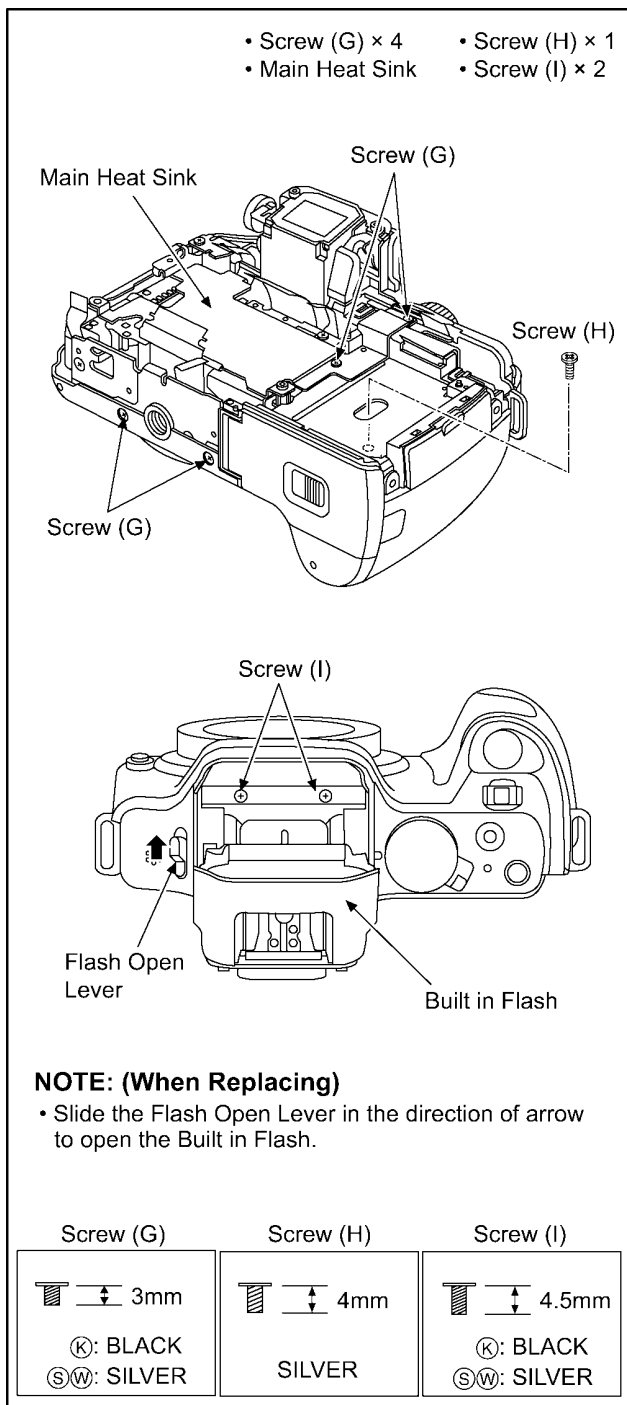
(Fig. D1)



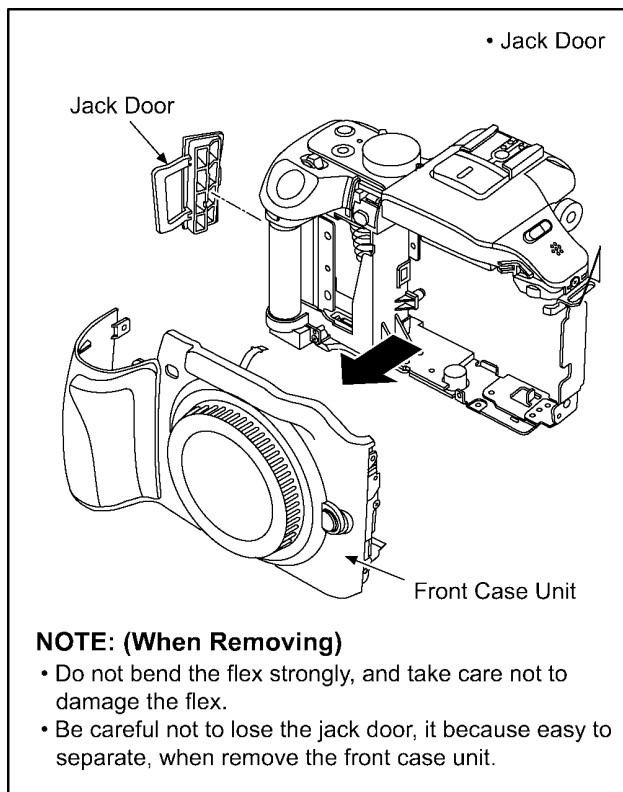
9.1.3.2. Removal of the Main P.C.B.



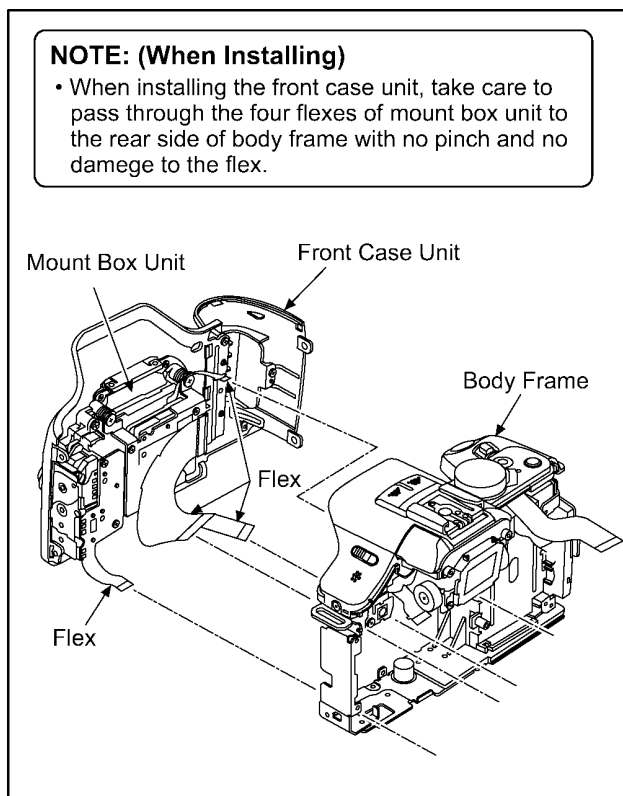
9.1.3.3. Removal of the Front Case Unit



(Fig. D4)

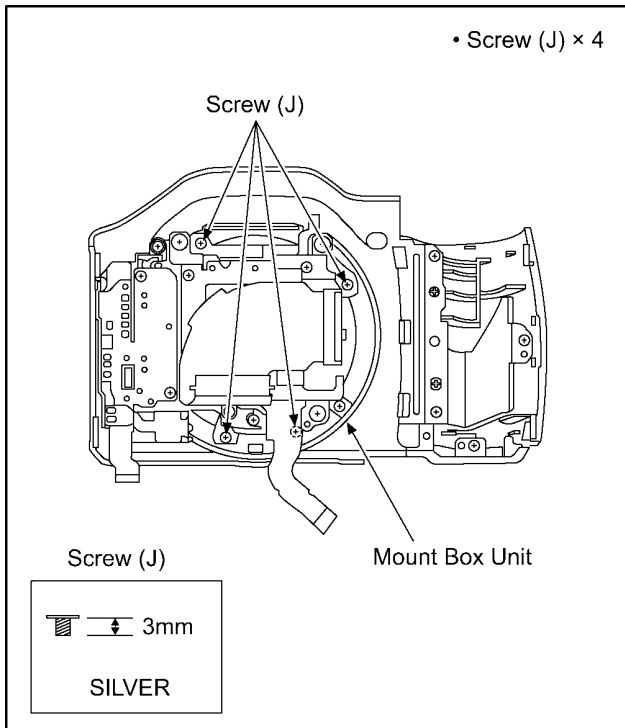


(Fig. D5)



(Fig. D6)

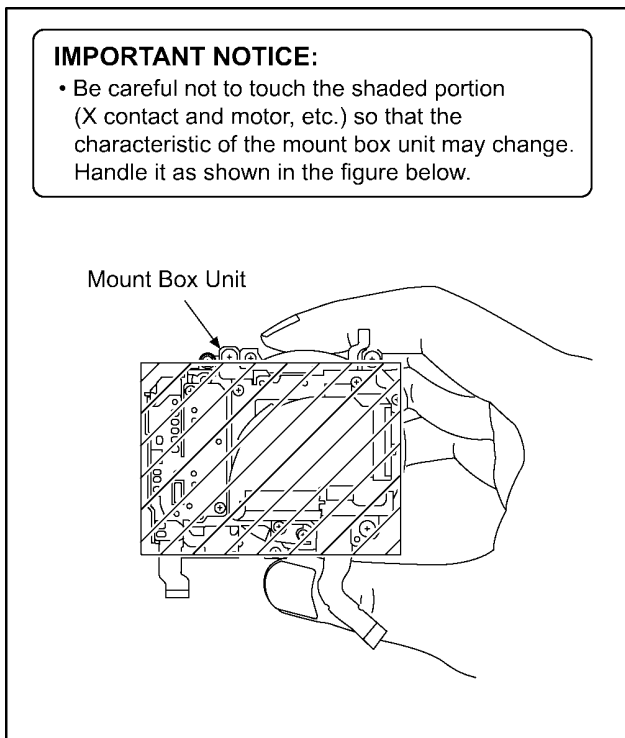
9.1.3.4. Removal of the Mount Box Unit



(Fig. D7)

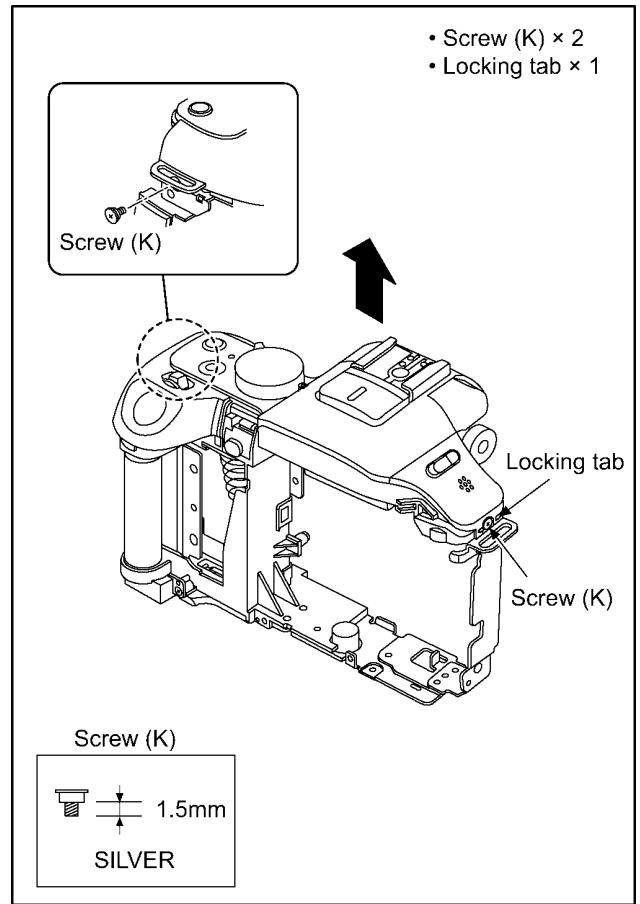
IMPORTANT NOTICE:

- Be careful not to touch the shaded portion (X contact and motor, etc.) so that the characteristic of the mount box unit may change. Handle it as shown in the figure below.



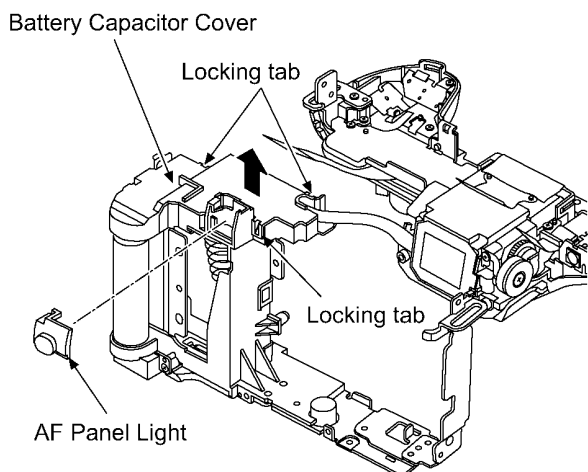
(Fig. D8)

9.1.3.5. Removal of the Top Unit and Flash P.C.B.



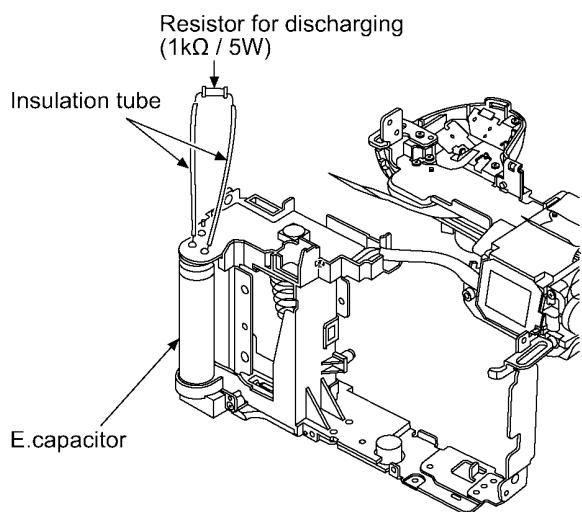
(Fig. D9)

- AF Panel Light
- Battery Capacitor Cover
- Locking tab × 3



NOTE: (When Removing)

- Be careful not to lose the AF panel light, it because easy to separate, when remove the top unit.



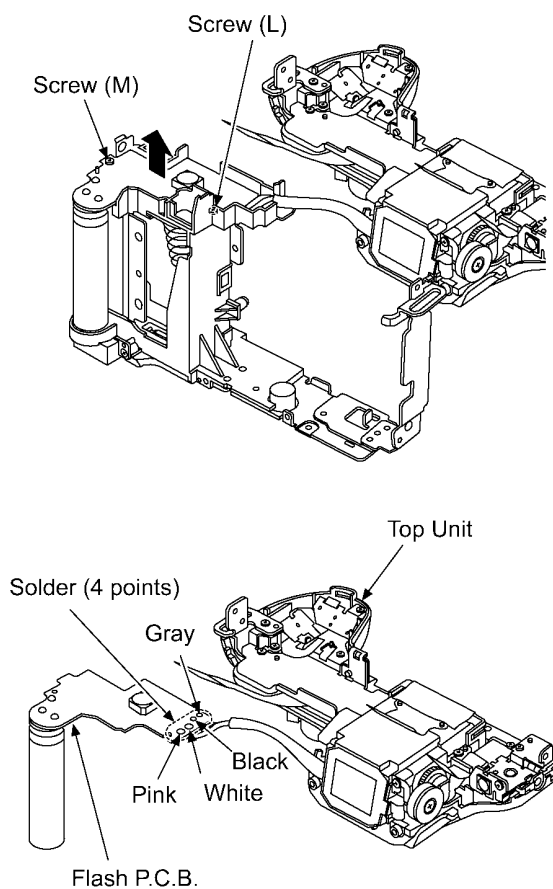
CAUTION



Be sure to discharge the E. capacitor before disassembling.

1. Remove the Battery Capacitor Cover.
2. Put the insulation tube on the lead part of resistor (ERG5SJ102: 1kΩ / 5W).
3. Put the resistor between both terminals of E. capacitor unit for approx. 5 seconds.

(Fig. D10)

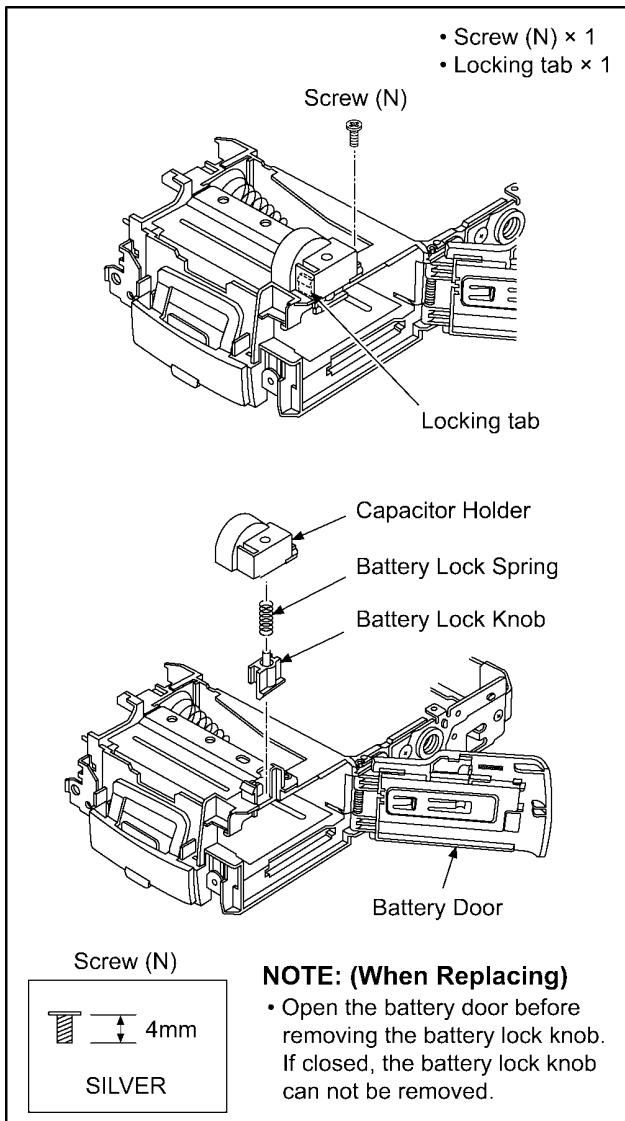
- Screw (L) × 1
- Solder × 4 points
- Screw (M) × 1



Screw (L)	Screw (M)
 4mm	 3mm
SILVER	SILVER

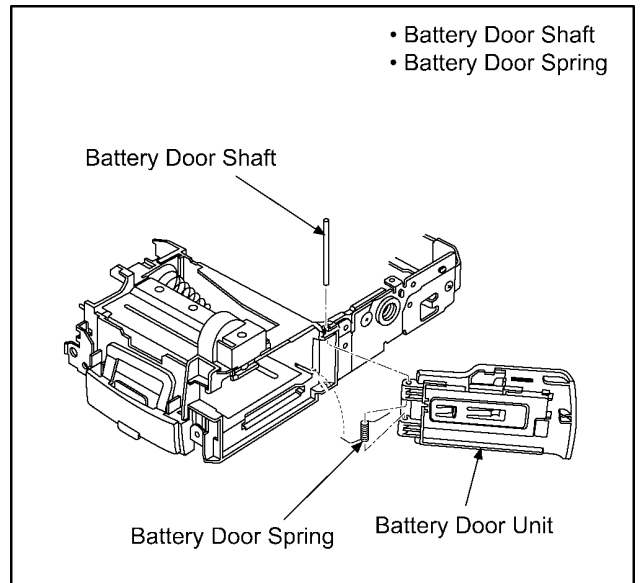
(Fig. D11)

9.1.3.6. Removal of the Capacitor Holder, Battery Lock Spring and Battery Lock Knob



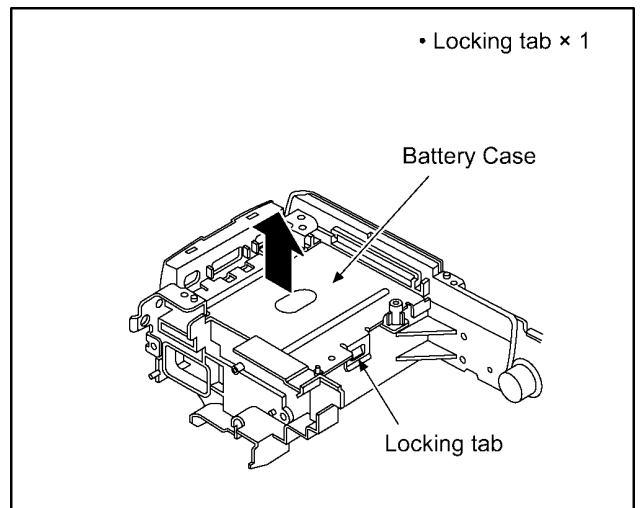
(Fig. D12)

9.1.3.7. Removal of the Battery Door Unit



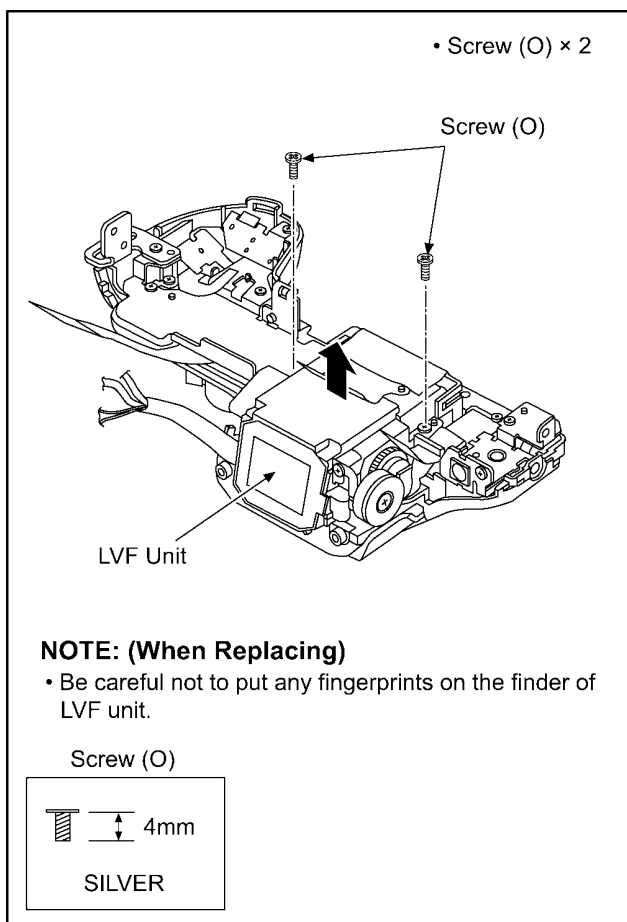
(Fig. D13)

9.1.3.8. Removal of the Battery Case



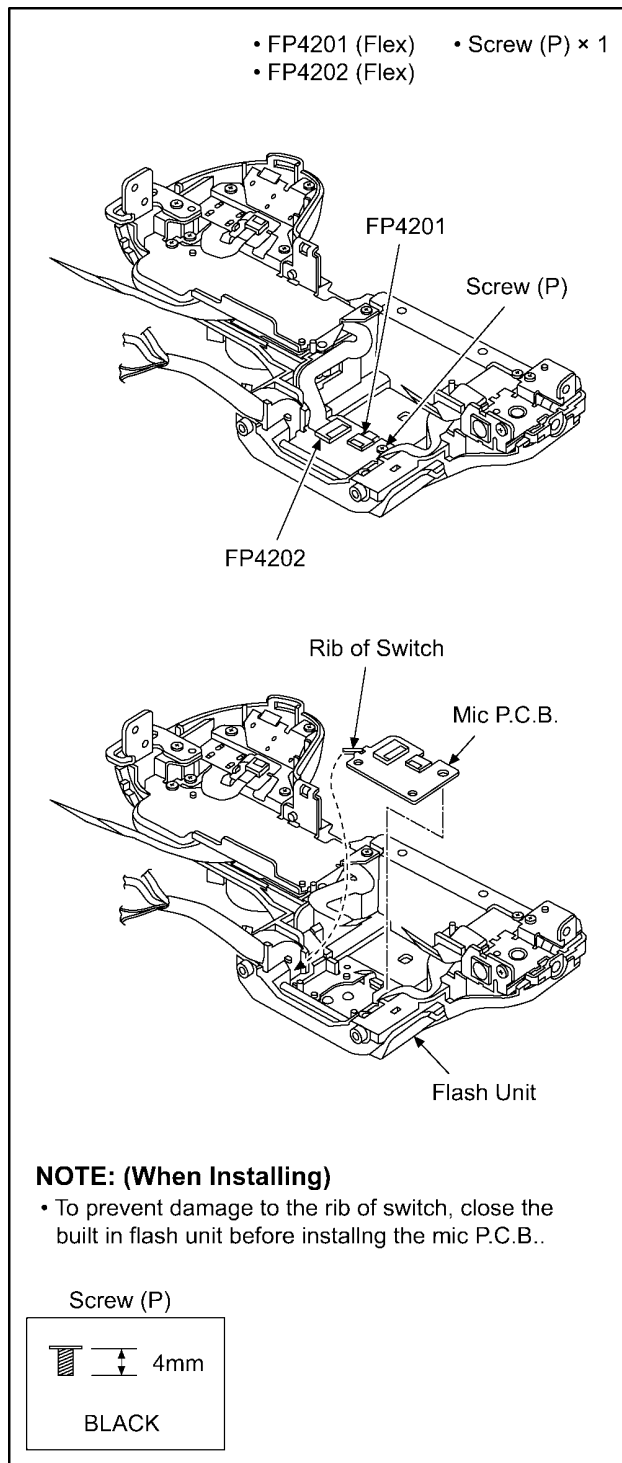
(Fig. D14)

9.1.3.9. Removal of the LVF Unit



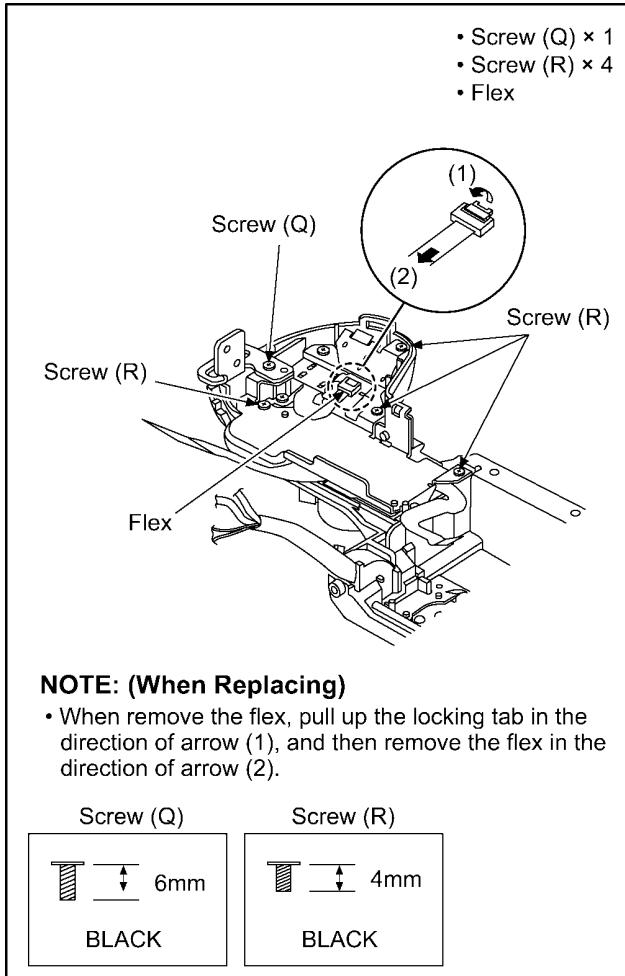
(Fig. D15)

9.1.3.10. Removal of the Mic P.C.B.

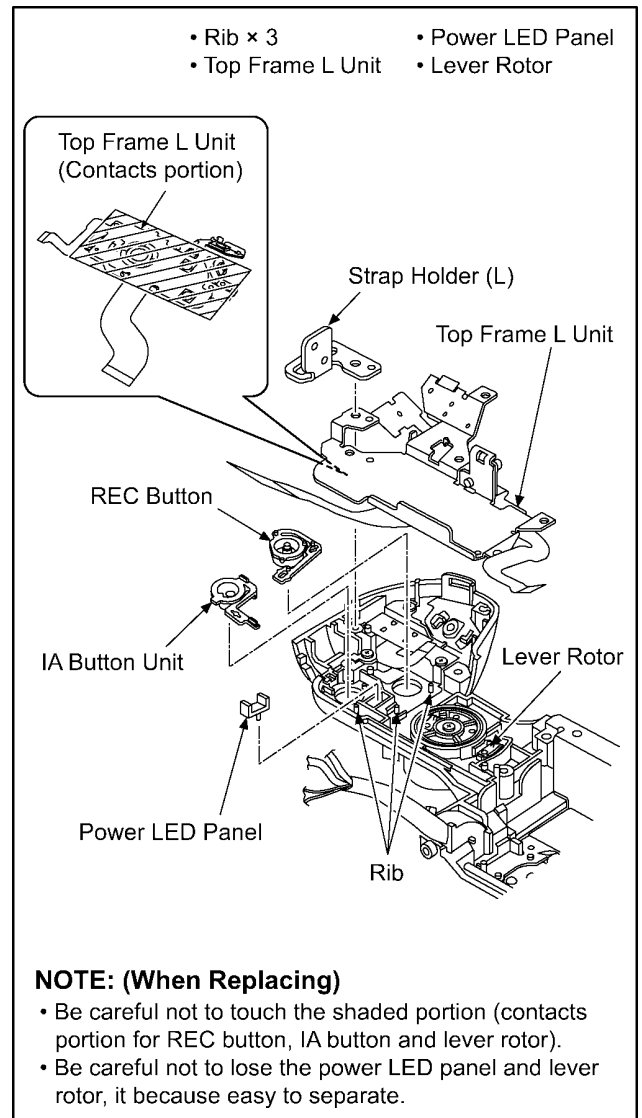


(Fig. D16)

9.1.3.11. Removal of the Strap Holder (L), REC Button and IA Button Unit

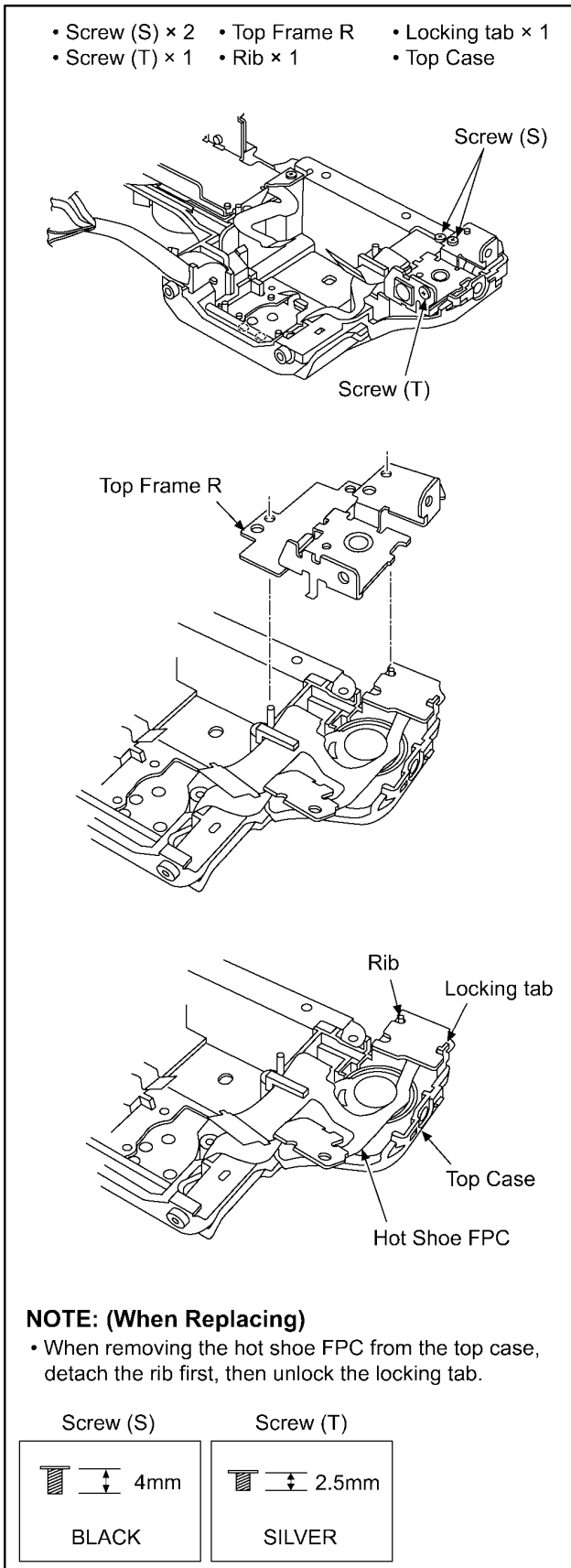


(Fig. D17)

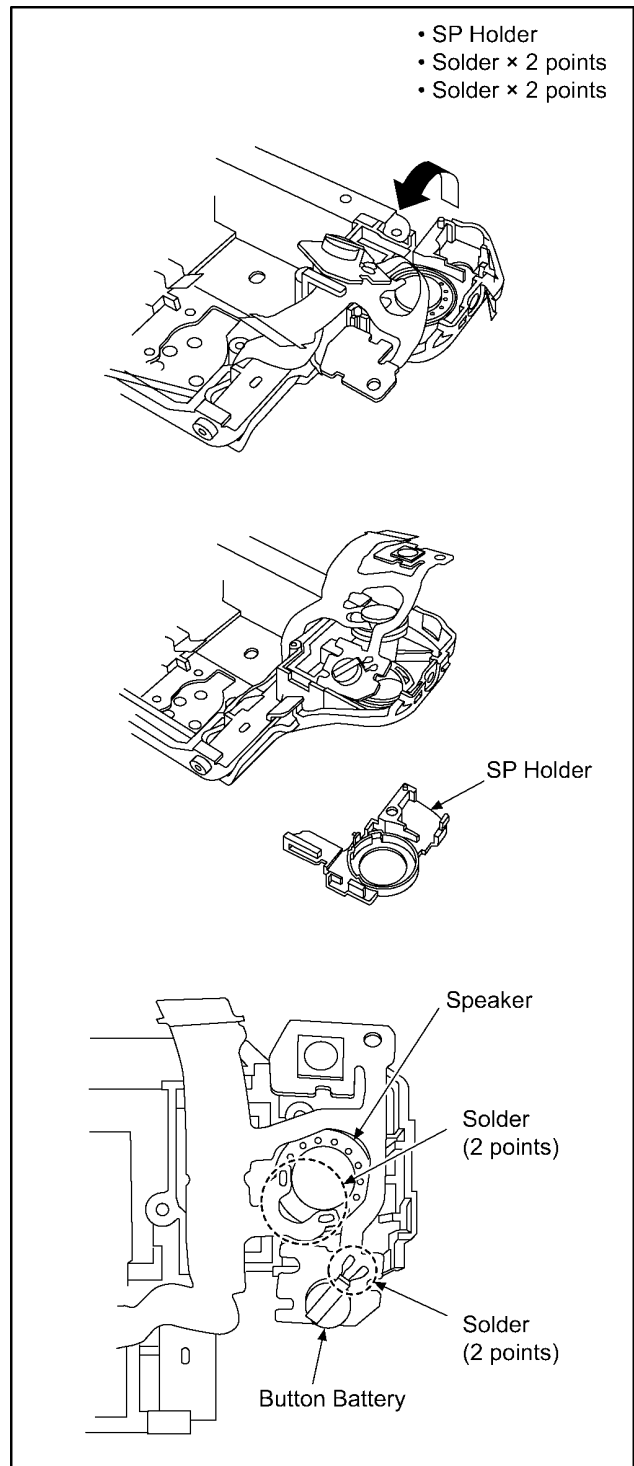


(Fig. D18)

9.1.3.12. Removal of the Button Battery and Speaker

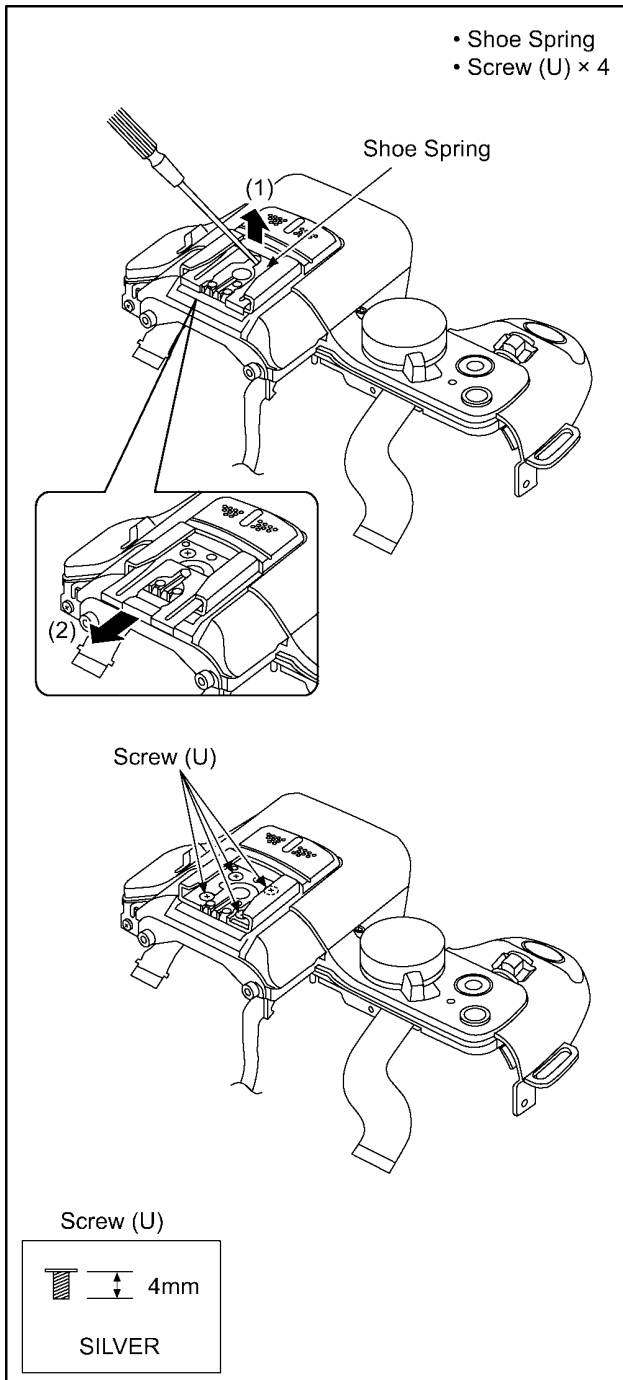


(Fig. D19)

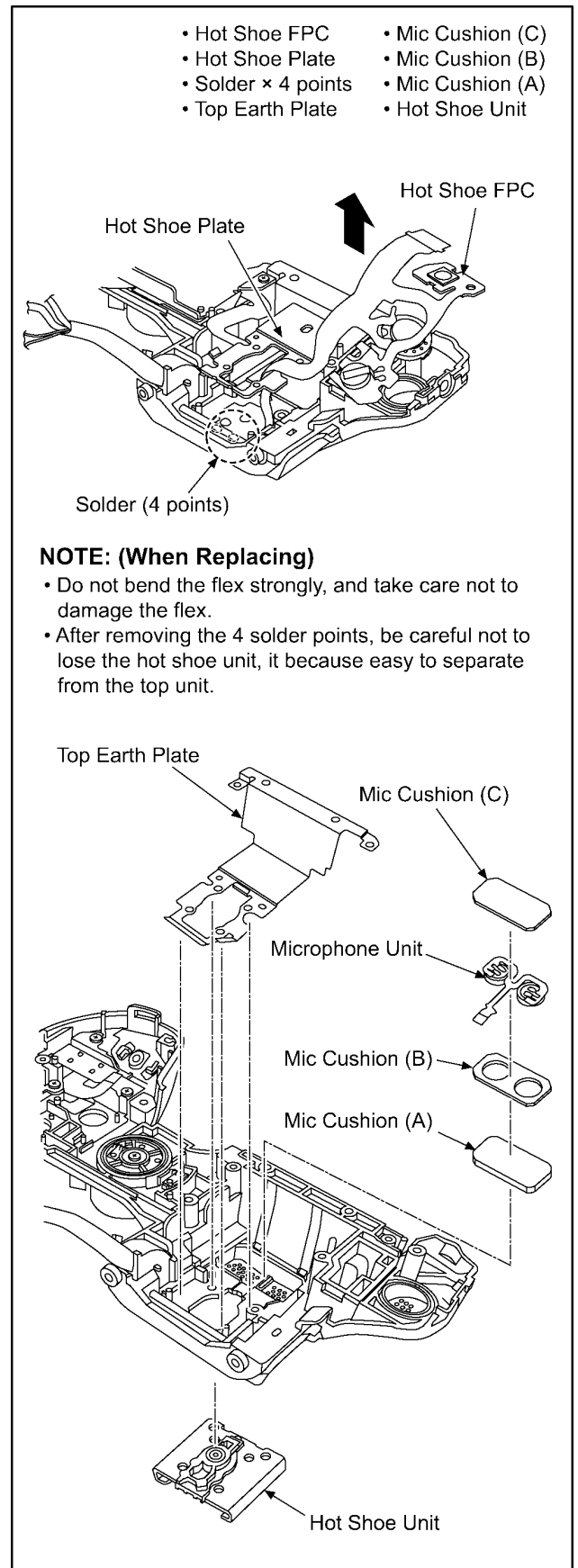


(Fig. D20)

9.1.3.13. Removal of the Microphone Unit

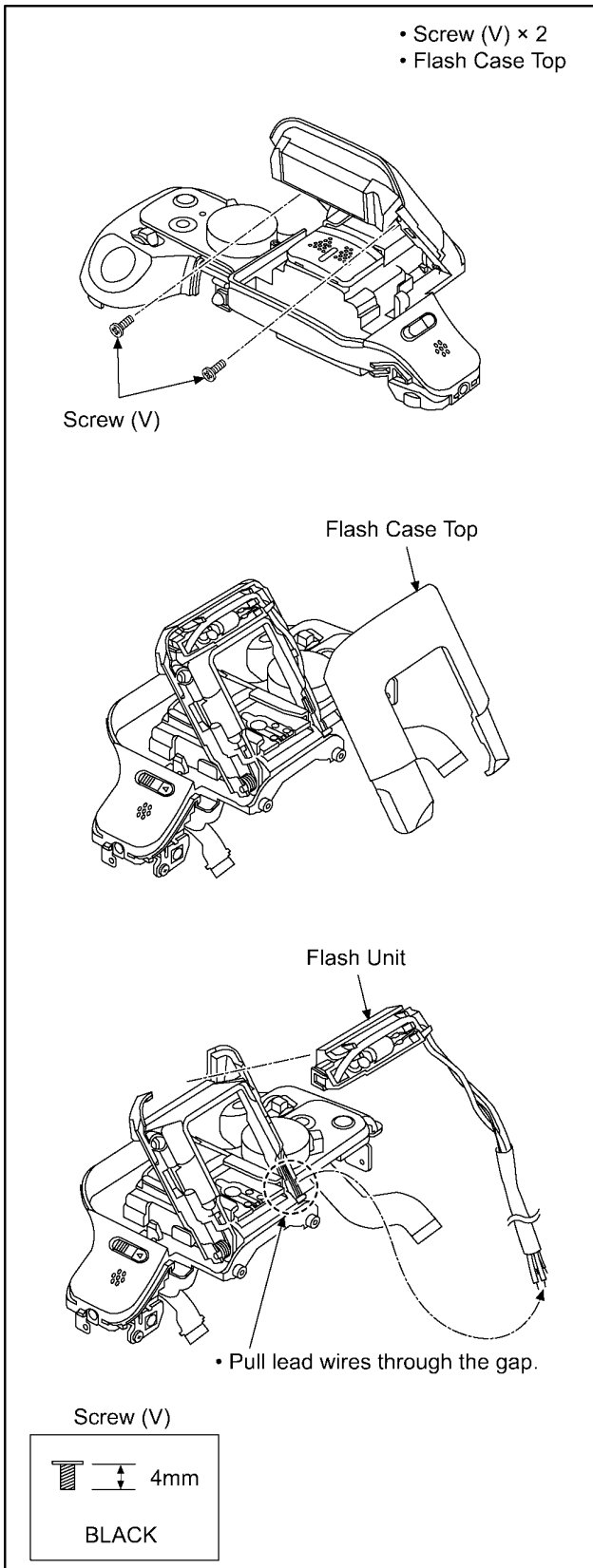


(Fig. D21)



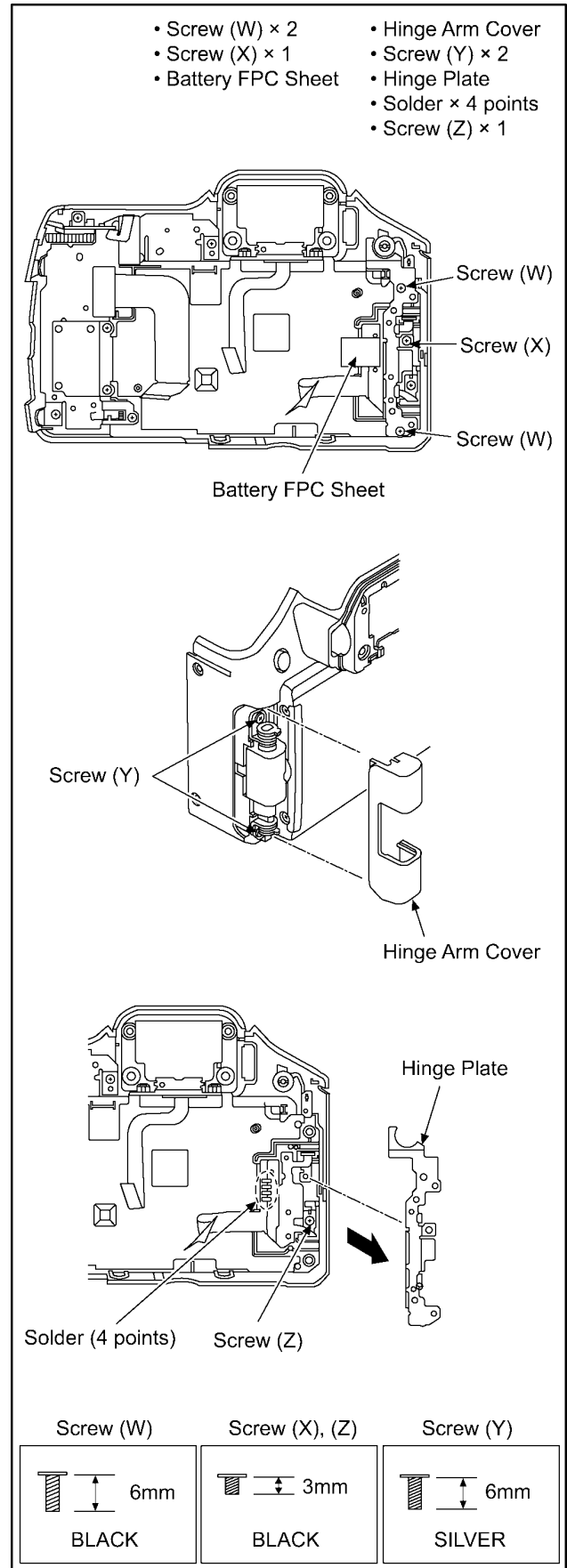
(Fig. D22)

9.1.3.14. Removal of the Flash Unit

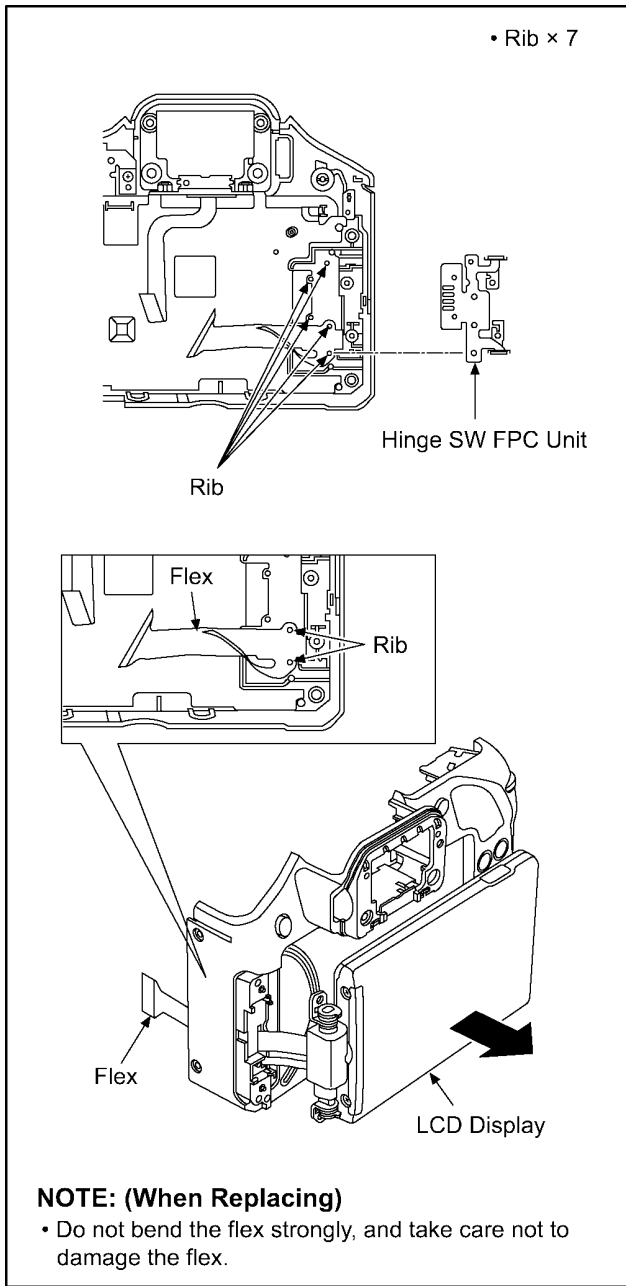


(Fig. D23)

9.1.3.15. Removal of the Hinge SW FPC Unit

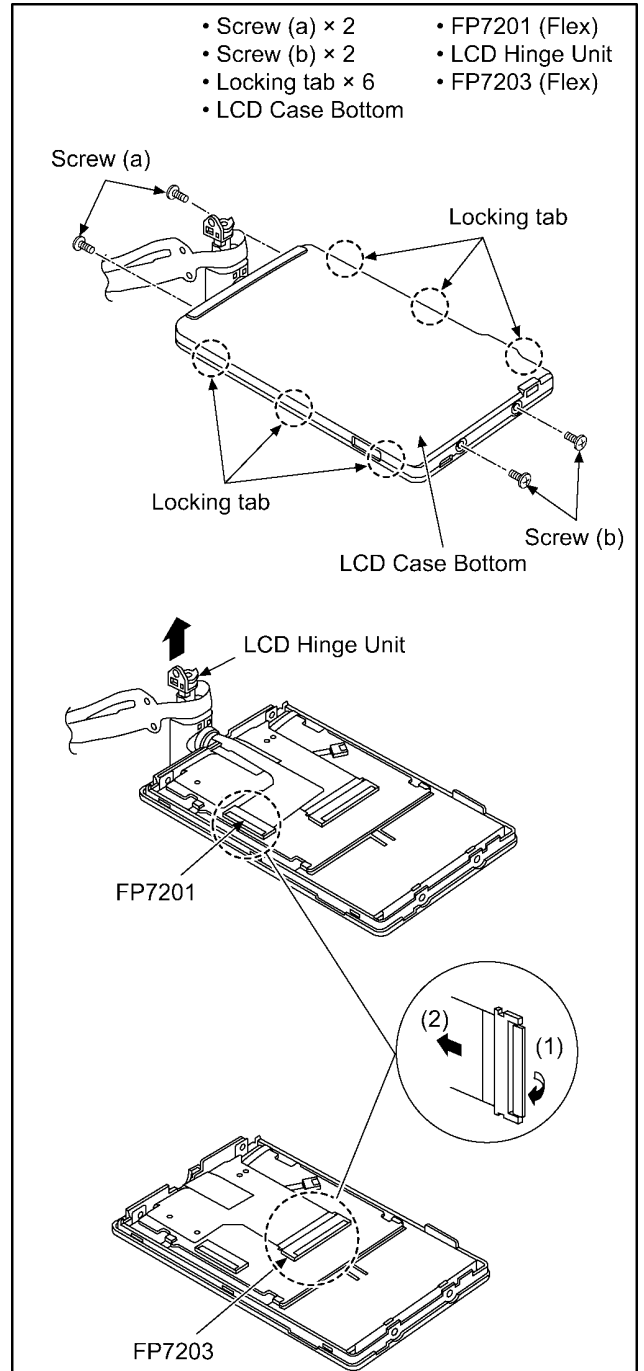


(Fig. D24)





(Fig. D25)

9.1.3.16. Removal of the LCD IF P.C.B. and LCD Unit

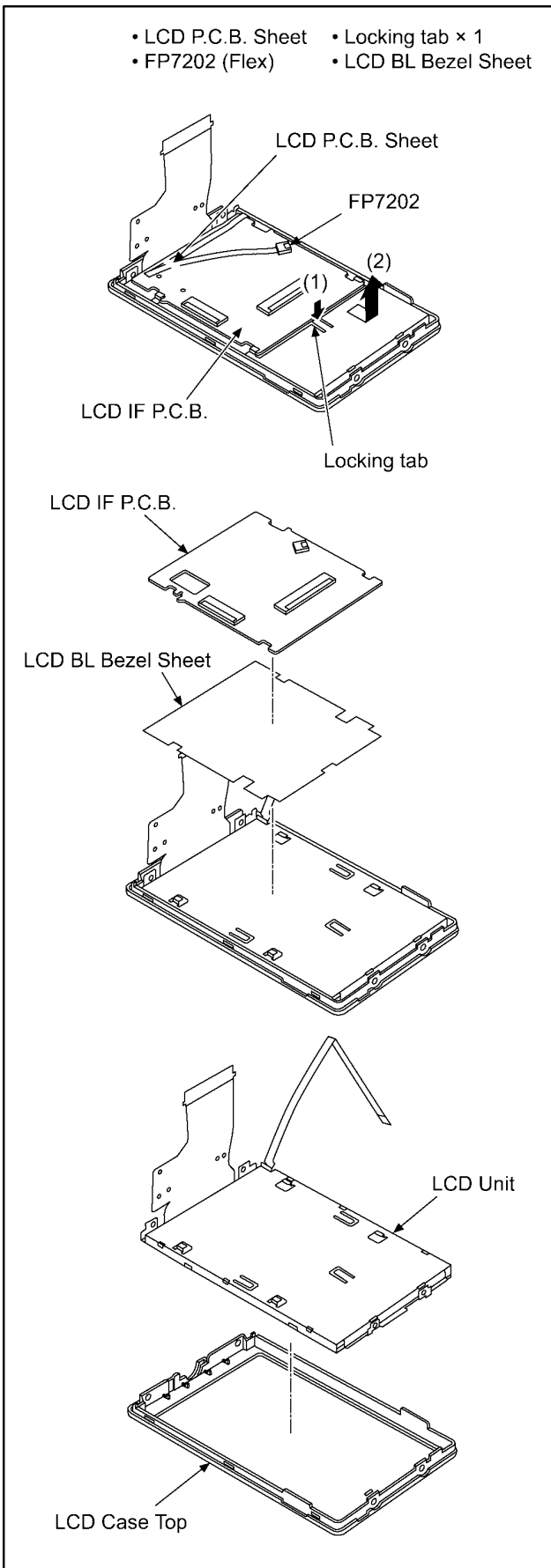


NOTE: (When Replacing)

- 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).

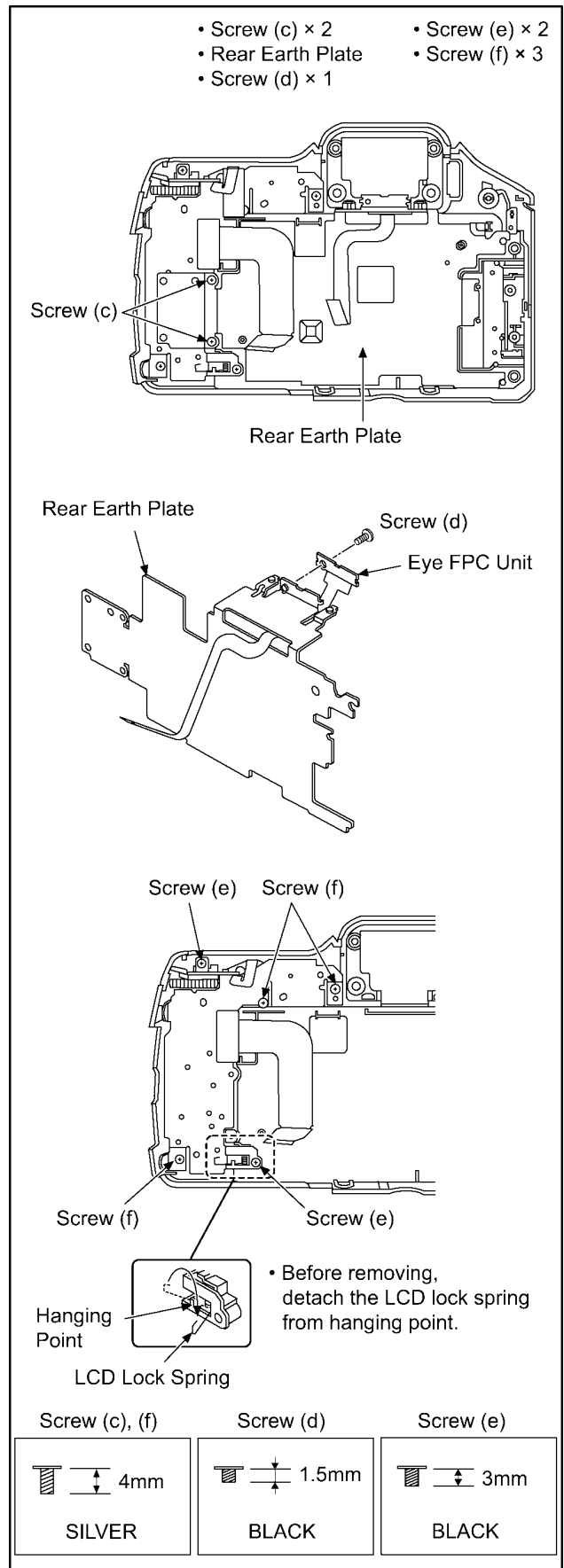
Screw (a)	Screw (b)
 4mm	 2.5mm
Ⓚ: BLACK	Ⓚ: BLACK
Ⓢ: SILVER	Ⓢ: SILVER

(Fig. D26)

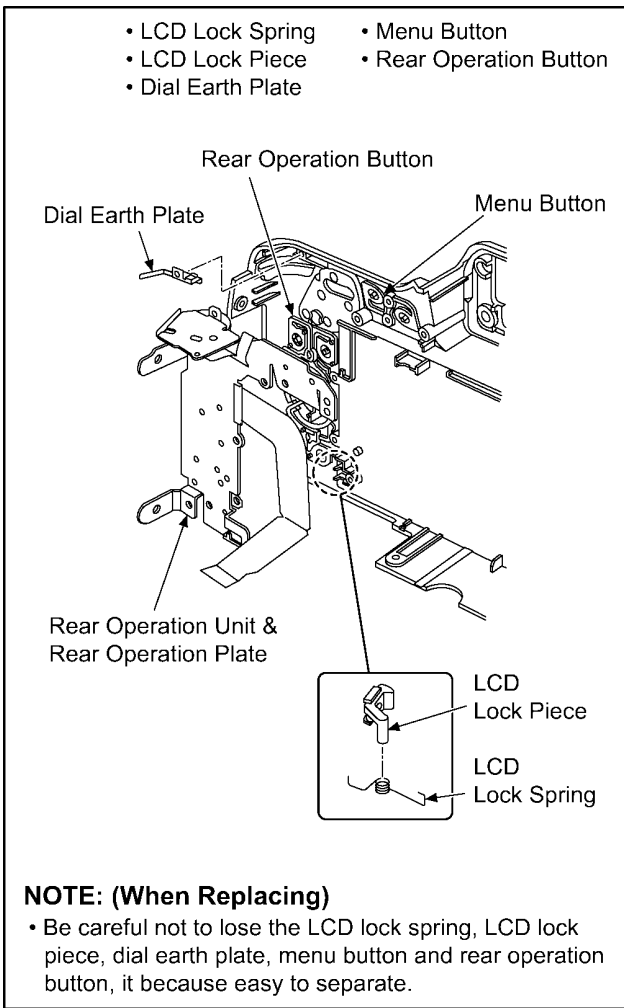


(Fig. D27)

9.1.3.17. Removal of the Eye FPC Unit and Rear Operation Unit & Rear Operation Plate



(Fig. D28)



(Fig. D29)

NOTE: (When Installing)

Make sure to confirm the following points when installing:

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

9.2. Disassembly and Assembly Procedure for the Lens (H-PS14042)

Proceed disassemble and assemble, by referring the following table Fig. X1.

Important:

1. It is recommended dealing with Clean box, to keep maintaining the dustproof environment.
(Refer to "8.2. Clean Box" section of this service manual for details.)
2. To minimize the possibilities/risk of getting the dust/dirt on the lens surface, keep covering the lens unit with lens caps (front & rear), other than necessary cases.
3. Do not touch the surface of the lens glasses with your fingers.
4. Blow off the dust on the surface of the lens with a blower brush.
5. Use lens cleaning KIT (BK)(VFK1900BK).

NOTE:

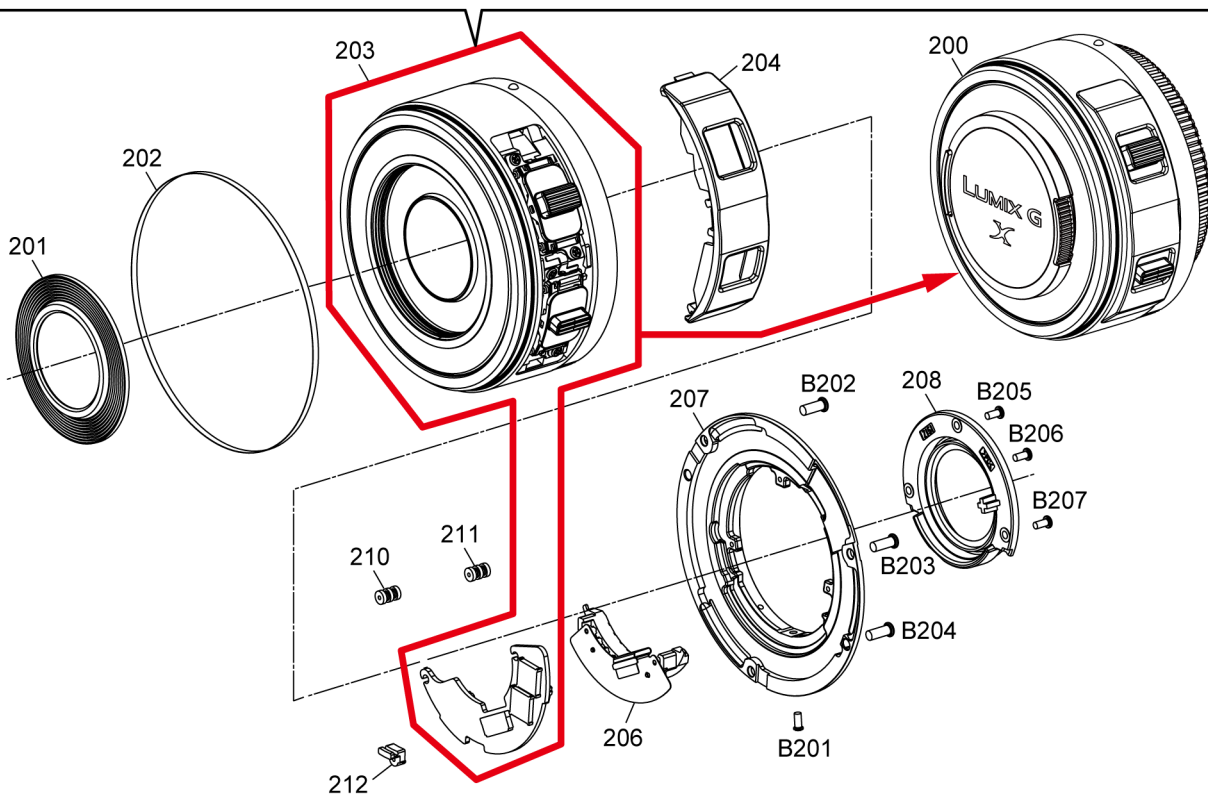
1. When tightening screws, use a torque driver (RFKZ0456) with specified torque mentioned in each step.

Caution:

Keep covering the lens unit with Lens caps (front & rear), other then necessary cases.

Concerned parts		Screws					Remarks
Parts Name	Ref. No.	Ref. No.	Colour	Length (mm)	Order	Torque value	
SHADING FRAME	208	B205	Black	3.0 mm	1	10±1.0 N·cm	
		B206	Black	3.0 mm	2	10±1.0 N·cm	
		B207	Black	3.0 mm	3	10±1.0 N·cm	
L MOUNT UNIT	207	B202	Silver	5.0 mm	1	20±1.2 N·cm	
		B203	Silver	5.0 mm	3	20±1.2 N·cm	
		B204	Silver	5.0 mm	2	20±1.2 N·cm	
MOUNT CONTACT UNIT	206	B201	Silver	3.0 mm	1	8±1.0 N·cm	

Refer to the "11.4.1. Precautions for Disassembly and Assembly" of the "11 Maintenance", when disassemble and assemble this part.



(Fig. X1)

9.3. Disassembly and Assembly Procedure for the Lens (H-FS014042)

It is recommended dealing with clean box, to keep maintaining the dustproof environment.
(Refer to “8.2. Clean Box” section of this service manual for details.)

Important:

1. When servicing the enclosure part (refer to Fig. K1), it must be performed inside of satisfied clean level.
(Satisfied clean level: Less than class 10,000 (Federal Standard 209D))
As for procedure, refer to the “11 Maintenance” for details.
2. To minimize the possibilities/risk of getting the dust/dirt on the lens surface, keep covering the lens unit with lens caps (front & rear), other than necessary cases.
3. Do not touch the surface of the lens glasses with your fingers.
4. Blow off the dust on the surface of the lens with a blower brush.
5. Use lens cleaning KIT (BK)(VFK1900BK).

Proceed disassemble/assemble, by referring the following table and Fig. K1.

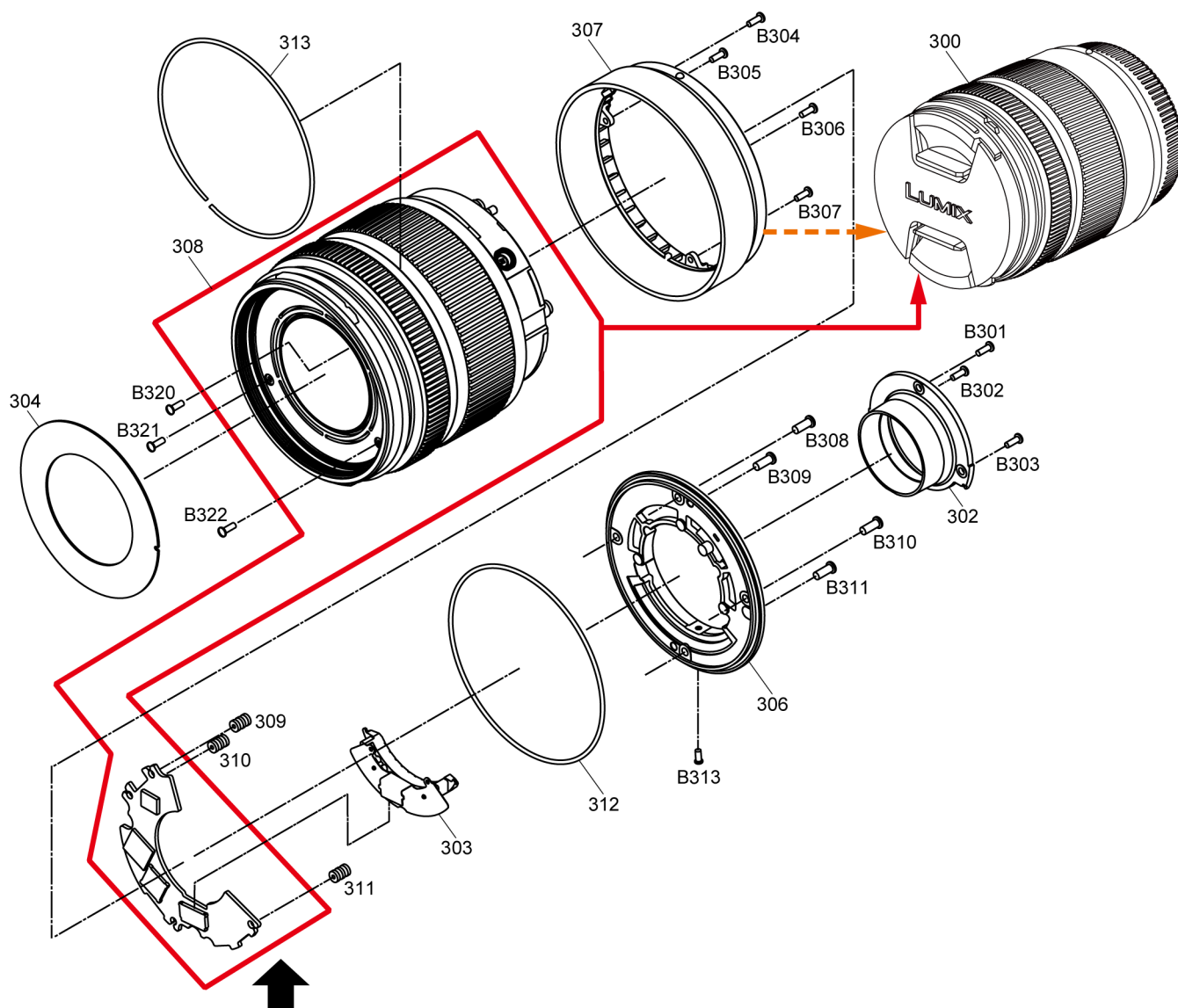
NOTE:

1. When installing the screws, be sure to use the torque driver (RFKZ0456) and tighten the screws with specified torque, mentioned on the above table.
2. The Ref.B313 is no need to remove/install for disassembly and assembly.
If necessary, use VFK1390 (small driver) when screwing it.

Interchangeable Lens (H-FS014042)

Caution:
Keep covering the lens unit with Lens caps (front & rear), other then necwssary cases.

Concerned parts		screws					Remarks
Part name	Ref. No.	Ref. No.	Color	Length (mm)	Order	Torque value	
SHADING FRAME	302	B301	Black	4.0 mm	[1]	7±0.5 N·cm	
		B302	Black	4.0 mm	[2]	7±0.5 N·cm	
		B303	Black	4.0 mm	[3]	7±0.5 N·cm	
L MOUNT UNIT	306	B308	Black	5.0 mm	[2]	15±1.2 N·cm	
		B309	Black	5.0 mm	[4]	15±1.2 N·cm	
		B310	Black	5.0 mm	[3]	15±1.2 N·cm	
		B311	Black	5.0 mm	[1]	15±1.2 N·cm	
		B313	Black	3.0 mm	---	---	Use Small Driver (VFK1390)
REAR FRAME UNIT	307	B304	Black	4.0 mm	[1]	7±0.5 N·cm	
		B305	Black	4.0 mm	[4]	7±0.5 N·cm	
		B306	Black	4.0 mm	[3]	7±0.5 N·cm	
		B307	Black	4.0 mm	[2]	7±0.5 N·cm	



* When servicing the surrounding part with thick line, refer to the "11.2. General description".
 * It must be performed inside of satisfied clean level.
 (Satisfied clean level: Less than class 10,000 Federal Standard 209D).

(Fig. K1)

9.4. Disassembly and Assembly Procedure for the Lens (H-FS45150)

It is recommended dealing with clean box, to keep maintaining the dustproof environment.
(Refer to "8.2. Clean Box" section of this service manual for details.)

Important:

- When servicing the enclosure part (refer to Fig. W1), it must be performed inside of satisfied clean level.
(Satisfied clean level: Less than class 10,000 (Federal Standard 209D))
As for procedure, refer to the "11 Maintenance" for details.
- To minimize the possibilities/risk of getting the dust/dirt on the lens surface, keep covering the lens unit with lens caps (front & rear), other than necessary cases.
- Do not touch the surface of the lens glasses with your fingers.
- Blow off the dust on the surface of the lens with a blower brush.
- Use lens cleaning KIT (BK)(VFK1900BK).

Proceed disassemble/assemble, by referring the following table and Fig. W1.

NOTE:

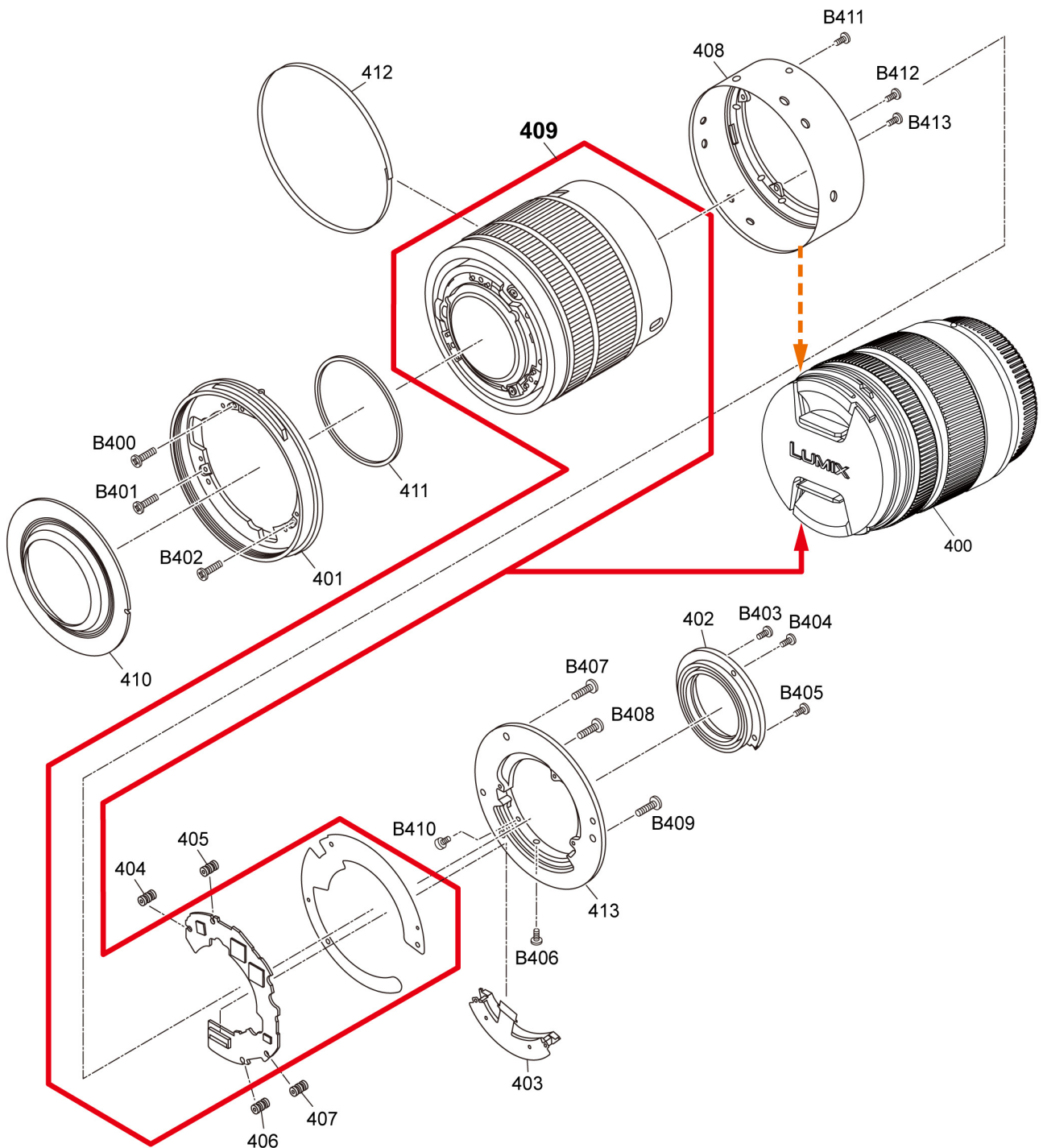
- When installing the screws, be sure to use the torque driver (RFKZ0456) and tighten the screws with specified torque, mentioned on the above table.
- The Ref.B406 is no need to remove/install for disassembly and assembly.
If necessary, use VFK1390 (small driver) when screwing it.

Interchangeable Lens (H-FS45150)

Caution :

Keep covering the lens unit with Lens caps (front & rear) other than necessary cases.

Concerned parts		screws					Remarks
Part name	Ref. No.	Ref. No.	Color	Length (mm)	Order	Torque value	
FILTER RING	401	B400	Silver	5.0 mm	1	10±1.0 N·cm	
		B401	Silver	5.0 mm	3	10±1.0 N·cm	
		B402	Silver	5.0 mm	2	10±1.0 N·cm	
SHADING FRAME	402	B403	Black	3.0 mm	2	10±1.0 N·cm	
		B404	Black	3.0 mm	1	10±1.0 N·cm	
		B405	Black	3.0 mm	3	10±1.0 N·cm	
L MOUNT UNIT	413	B406	Silver	3.0 mm	4	8±1.0 N·cm	Use Small Driver (VFK1390)
		B407	Silver	5.0 mm	1	20±1.2 N·cm	
		B408	Silver	5.0 mm	2	20±1.2 N·cm	
		B409	Silver	5.0 mm	3	20±1.2 N·cm	
REAR FRAME UNIT	408	B411	Black	4.0 mm	1	7±1.0 N·cm	
		B412	Black	4.0 mm	3	7±1.0 N·cm	
		B413	Black	4.0 mm	2	7±1.0 N·cm	



* When servicing the surrounding part with thick line, refer to the "11.3. General description".
 * It must be performed inside of satisfied clean level.
 (Satisfied clean level: Less than class 10,000 Federal Standard 209D).

(Fig. W1)

10 Measurements and Adjustments

10.1. 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.

NOTE:

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

After updates it to the latest firmware, the adjustment is executed.

Adjustment Item		Mount Box Unit (*3)	Main P.C.B. (*2)	VENUS ENGINE (IC6001)	Flash-ROM (IC9999) (*2)	Eye sensor	G sensor (IC2701)	LCDu	T. Panel Driver (IC7201)	
S e c o d i o n	C a m e r a	VENUS-ZOOM Inspection	----	○	○	○	----	----	----	
		ISO sensitivity adjustment (ISO)	○	○	----	○	----	----	----	
		High brightness coloration inspection (SEN)	○	○	----	○	----	----	----	
		Offset gain adjustment (SAT)	○	○	----	○	----	----	----	
		AWB adjustment (WBL/WBM)(*5)	○	○	----	○	----	----	----	
		IMAGE SENSOR white scratch compensation (WKI)	○	○	----	○	----	----	----	
		IMAGE SENSOR black scratch compensation (BKI)	○	○	----	○	----	----	----	
		Low illumination image quality correction (VSJ)	○	○	----	○	----	----	----	
		Eye sensor sensitivity (EYE)	----	○	----	○	○	----	----	----
		G sensor (*6)	○	○	----	○	----	○	----	----
		Mount Box Adjustment data writing	○	----	----	----	----	----	----	----
		Mount box u readjustment	----	○	----	○	----	----	----	----
		AVCHD function inspect	----	○(*4)	○(*4)	○(*4)	----	----	----	----
	Display	Touch panel adjustment (TPC)	----	○	----	○	----	○	○	
Defect Part Division /Inspection	Resolution inspection (*1)	○	----	----	----	----	----	----		

- *1**
- Inspect it, not only corresponding part is replaced, but also camera body is shocked and/or dropped.
 - The Panasonic camera body in accordance with the Micro Four Thirds system (DMC-G1 unit, DMC-GH1 unit or DMC-GF1 unit etc. marketed commodity: operates normal) and a standard zoom lens H-FS014045 (marketed commodity: operates normal) is required as a reference machine.
 - Refer to the adjustment instruction in the adjustment software for details.

***2 NOTE: (When exchange the MAIN P.C.B.)**

IMPORTANT NOTICE (After replacing the MAIN P.C.B.)

After replacing the MAIN P.C.B., make sure to perform the "INITIAL SETTINGS" first, then release the "INITIAL SETTINGS" in order to proceed the electrical adjustment.

NOTE:

- If electrical adjustment or data re-writing is executed before "INITIAL SETTINGS", suffix code list is never displayed, and it cannot be chosen suitable suffix code.
- Never remove the battery during initial setting in process.

- Correspond by either the following when exchange the MAIN P.C.B. unavoidably by destruction and damage etc. of MAIN P.C.B..
 - When it can turn on power, and the adjustment software can communicate with the camera body:
 - Before replacing, proceed the Flash-ROM (IC9999) data backup from the unit. After replacing, overwrite the Flash-ROM (IC9999) data with backup data from the unit, before proceeding the main body adjustment.

2. When it cannot turn on power, or the adjustment software cannot communicate with the camera body:

- The readjustment of mount box unit etc. are necessary.
- Refer to the adjustment instruction in the adjustment software for details.

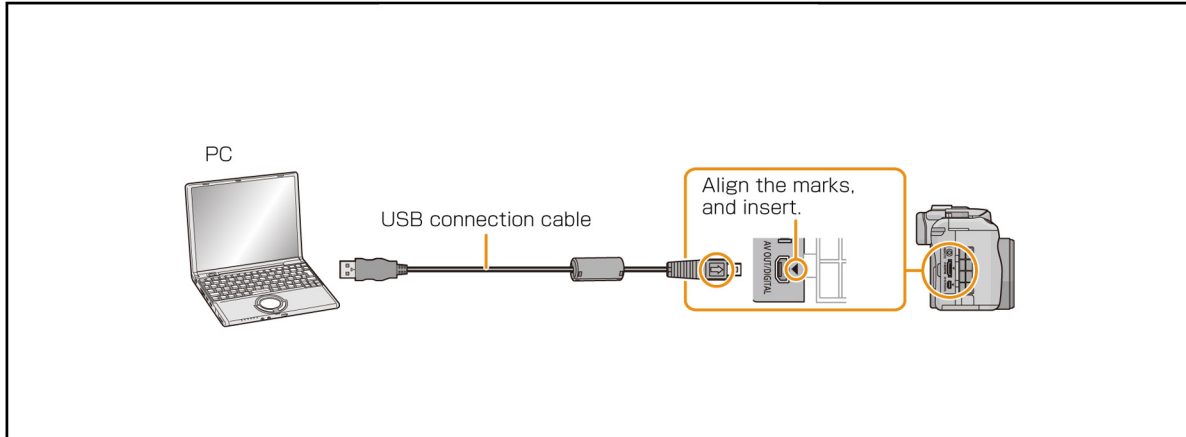
***3 NOTE: (After exchange the mount box unit)**

- Execute the resolution inspection by the comparison with the standard model (DMC-G1K etc.: operates normal).
- Refer to the adjustment instruction in the adjustment software for details.

***4**

- Confirm self recording/playback motion picture of AVCHD mode by the LCD.
- Confirm it on the TV with HDMI socket when repair HDMI relation.

* There are no LCD adjustment model.



***5 NOTE: (When AWB adjustment)**

- After change to WB adjustment mode for service with software, the adjustment is executed.
After adjusting the AWB adjustment, to cancel the WB adjustment mode for service.
- Details, refer to the instructions in the adjustment software.

***6 About the G sensor adjustment**

- Offset adjustment for built in electronic level (tilt sensor).
Refer to the adjustment instruction in the adjustment software for details.

About the 3D interchangeable lens (H-FT012) correspondence

This unit has no special structure (circuit or part) for the 3D interchangeable lens correspondence, only by software is processed the 3D interchangeable lens correspondence.

Therefore, if taken with other lenses as usual, the 3D interchangeable lens is no problem for operation.

11 Maintenance

11.1. Notice in external cleaning

11.1.1. ABOUT THE BODY

NOTE:

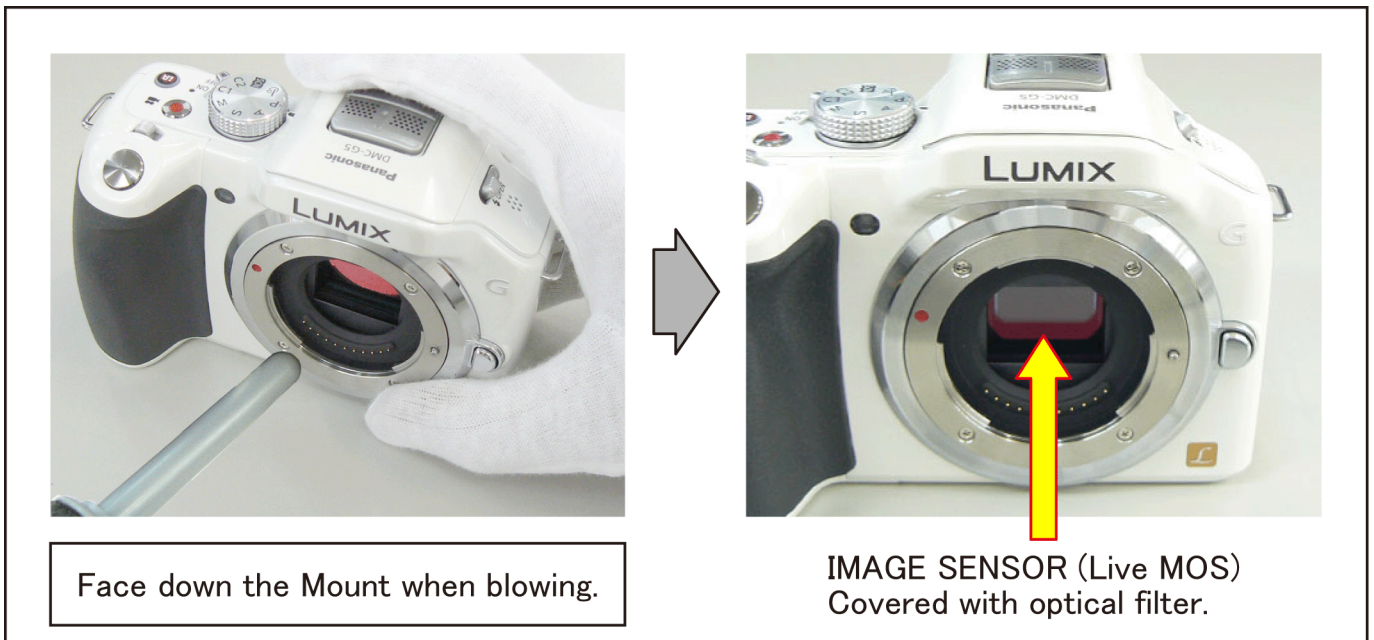
Before cleaning the camera, remove the battery and/or disconnect power plug from the outlet.
Also, remove the SD Memory card and lens unit.

11.1.1.1. DUST/DIRT ON THE OUTER CASING PART (S)

1. Blow off the dust first, then sweep out the dust from narrower spaces with soft cleaning brush.
2. Wipe up fingerprint and/or dirt on the Outer casing part with the dry fuzz-free cloth.

11.1.1.2. DUST/DIRT ON THE IMAGE SENSOR

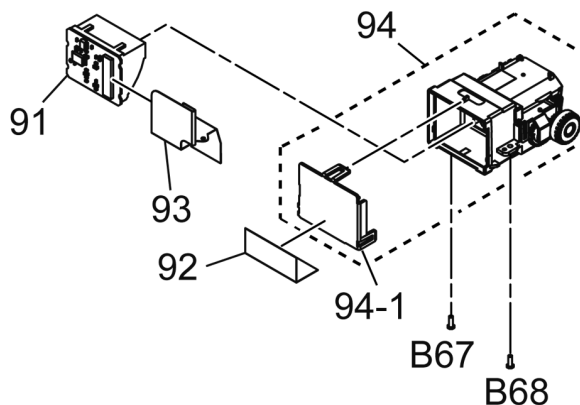
1. Blow off the dust on the surface of the Image sensor with the Blower. (Refer to the following Figure.)
 - Keep the Mount Facing down condition towards to floor when cleaning.
 - Do not put the Blower further inside than the lens mount.
 - Be careful not to blow too strongly.
2. Wipe off the dirt on the image sensor surface with Lens cleaning KIT(BK)(VFK1900BK).



11.1.1.3. ABOUT THE LVF UNIT

[PROCEDURES]

1. By referring the Disassembly & Assembly procedures and remove the LVF unit.
2. Disassemble the LVF unit as follows, then blow off the dust with blower.
3. Wipe off the dirt on the surface of glasses with Lens Cleanig KIT (VFK1900BK), if necessary.



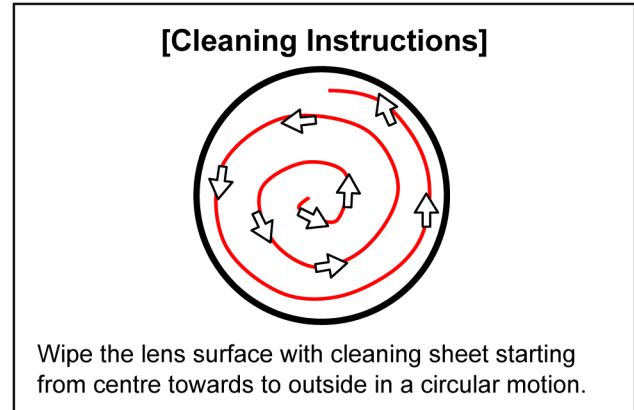
11.1.2. ABOUT THE LENS

11.1.2.1. DUST/DIRT ON THE OUTER CASING PART(S)

1. Blow off the dust first, then sweep out the dust from narrower spaces with soft cleaning brush.
2. Wipe up the Outer casing part with the dry fuzz-free cloth.

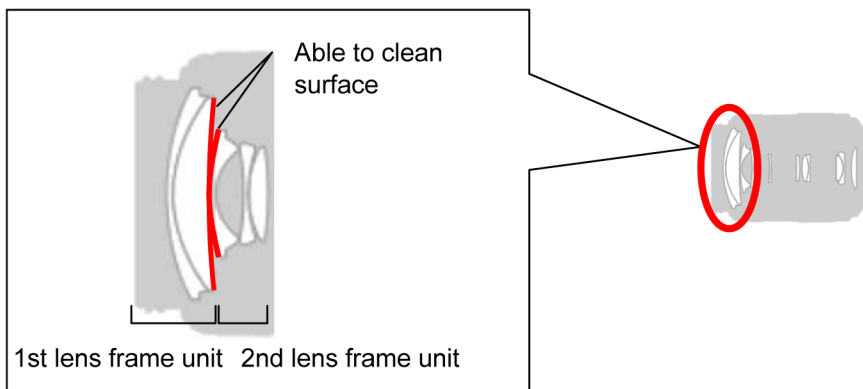
11.1.2.2. DUST/DIRT ON THE LENS GLASSES

- Define the location of the dust/dirt first, whether it is outside lens surface or not.
 1. When it is outside surface of the lens:
 - When the dust and/or dirt gets on the outer side surface of the Lens glasses, order the following procedures.
 - a. Blow off the dust on the Lens glass surface with the Blower, gently. (Do not Blow too strongly.)
 - b. Wipe out the dirt on the lens glass surface with Lens cleaning KIT(BK) (VFK1900BK) if necessary. (Consult the Instruction sheet which is included in the Lens cleaning KIT(BK) in details.)
 2. When it is inside of the lens:
 - Refer to the “11.2. General description (Lens cleaning: Interchangeable Lens/H-FS014042)”, “11.3. General description (Lens cleaning: Interchangeable Lens/H-FS45150)” section of this service manual.



11.2. General description (Lens cleaning: Interchangeable Lens/H-FS014042)

When there is a dust/dirt inside surface of the 1st lens frame unit and/or subject side surface of the 2nd lens frame unit, remove it by referring the following procedures.



CAUTION

*DO NOT REMOVE 1st LENS FRAME UNIT OTHER THAN INSIDE OF SPECIFIED CLEAN LEVEL.
(Specified clean level: Less than class 10,000 (Federal Standard 209D))

Important:

1. When removing the 1st lens frame unit, it has to be proceed inside of satisfied clean level. (Less than class 10,000 (Federal Standard 209D))
As for clean box, refer to the “8.2. Clean Box”, in details.
2. When tighten the screws (A), use torque driver (RFKZ0456) with specified torque.
3. To keep the Lens performance, use only the 1st lens frame unit which was fitted as it was.
Therefore, the 1st lens frame unit is not supplied as spare parts.
Also do not exchange the 1st lens unit taking from others.

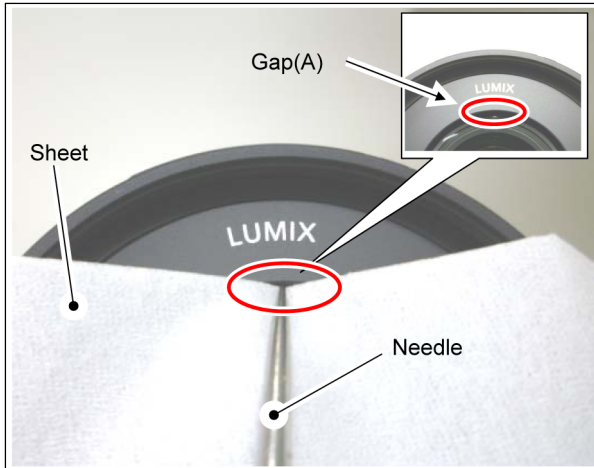
11.2.1. Disassembly procedure

Important:

It must be performed inside of satisfied clean level.
(Satisfied clean level: Less than class 10,000 (Federal Standard 209D))

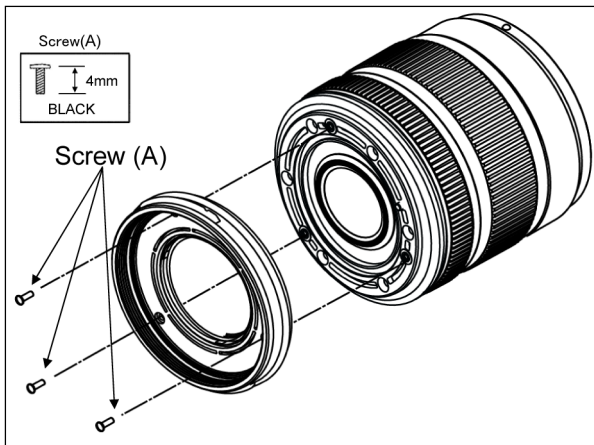
11.2.1.1. Removal of the Decoration Ring

1. Decoration ring is stuck on the 1st lens frame unit.
2. Put the sheet so that the lens glass is fully covered.
3. Insert the needle to Gap (A) (between the decoration ring and lens glass), and peel off the decoration ring gently.



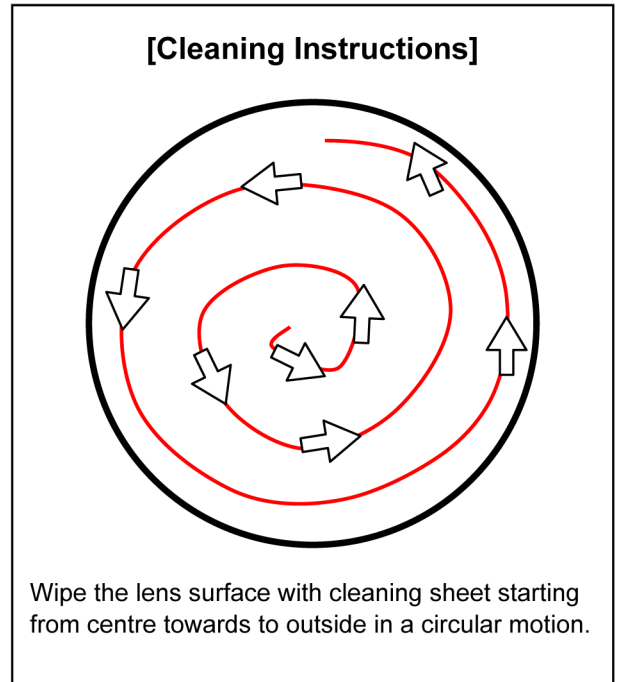
11.2.1.2. Removal of the 1st Lens Frame Unit

1. Remove the 3 screws (A).



11.2.1.3. Removal of a dust /dirt

1. Blow off the dust on the surface of the lens with a blower brush.
2. Use lens cleaning KIT(BK) (VFK1900BK), if necessary.



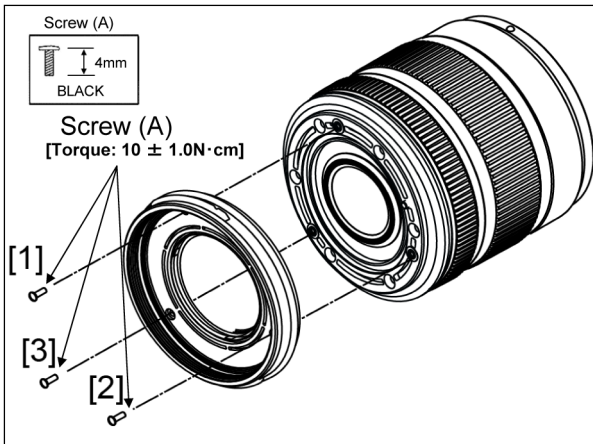
11.2.2. Assembly procedure

Important:

When tightening the screw, use a torque driver (RFKZ0456) by ordering the screwing order with specified torque described in each step.

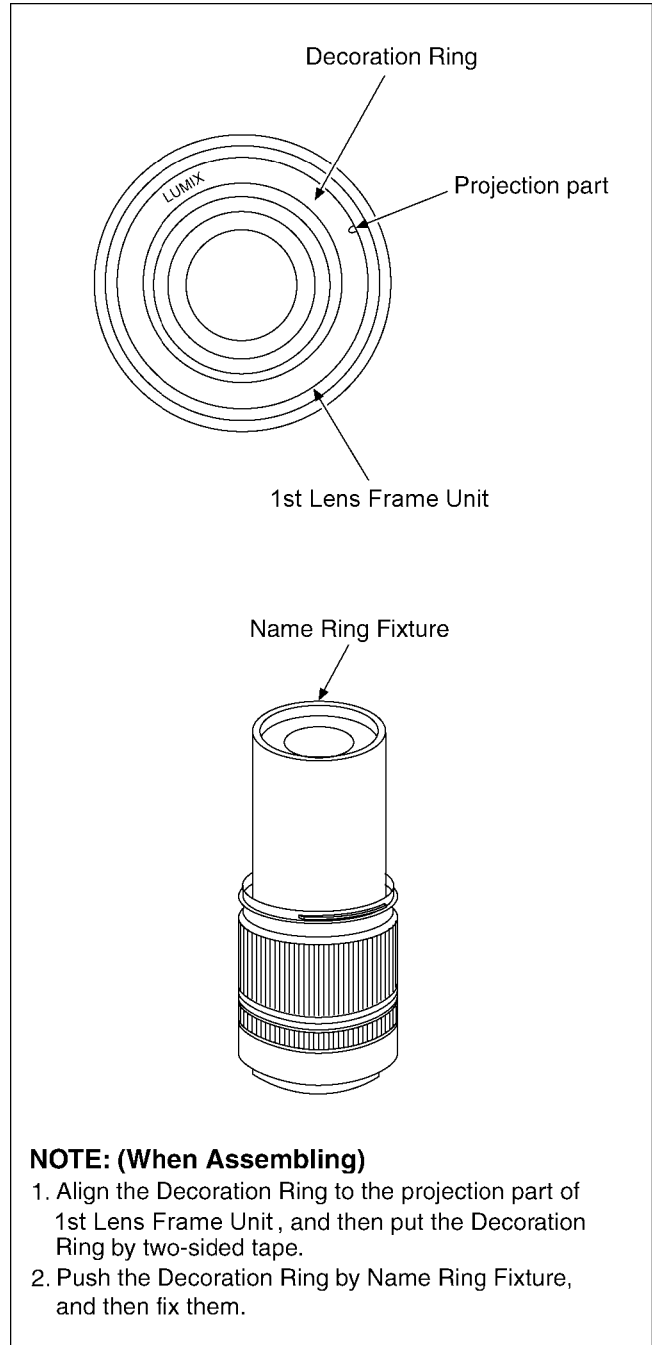
11.2.2.1. Installation of the 1st lens frame unit

1. Tighten the 3 screws (A) with specified torque in numerical order.
(Torque Driver: RFKZ0456)
(Torque: 10 ± 1.0 N·cm)



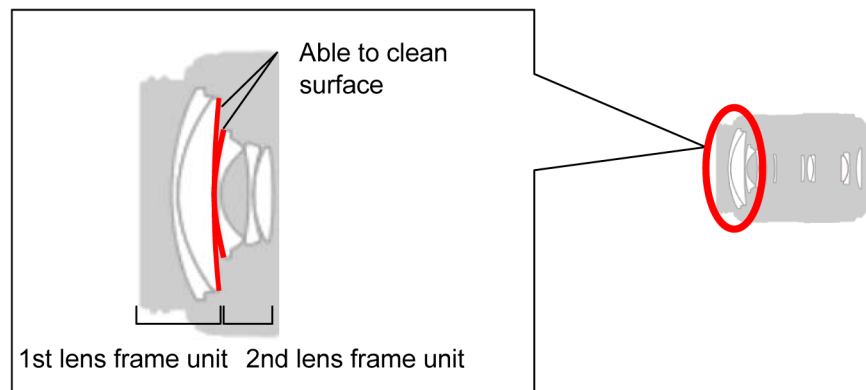
11.2.2.2. Installation of the Decoration Ring

1. Use the Name Ring fixture (RFKZ0507)
2. Use new Decoration ring. (Do not use the one which is removed.)



11.3. General description (Lens cleaning: Interchangeable Lens/H-FS45150)

When there is a dust/dirt inside surface of the 1st lens frame unit and/or subject side surface of the 2nd lens frame unit, remove it by referring the following procedures.



CAUTION

*DO NOT REMOVE 1st LENS FRAME UNIT OTHER THAN INSIDE OF SPECIFIED CLEAN LEVEL.
(Specified clean level: Less than class 10,000 (Federal Standard 209D))

Important:

1. When removing the 1st lens frame unit, it has to be proceed inside of satisfied clean level.
(Less than class 10,000 (Federal Standard 209D))
As for clean box, refer to the "8.2. Clean Box", in details.
2. When tighten the screws (A), use torque driver (RFKZ0456) with specified torque.
3. To keep the Lens performance, use only the 1st lens frame unit which was fitted as it was.
Therefore, the 1st lens frame unit is not supplied as spare parts.
Also do not exchange the 1st lens unit taking from others.

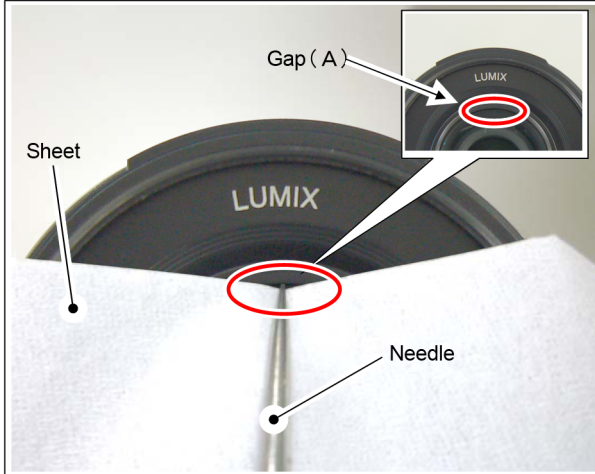
11.3.1. Disassembly procedure

Important:

It must be performed inside of satisfied clean level.
(Satisfied clean level: Less than class 10,000 (Federal Standard 209D))

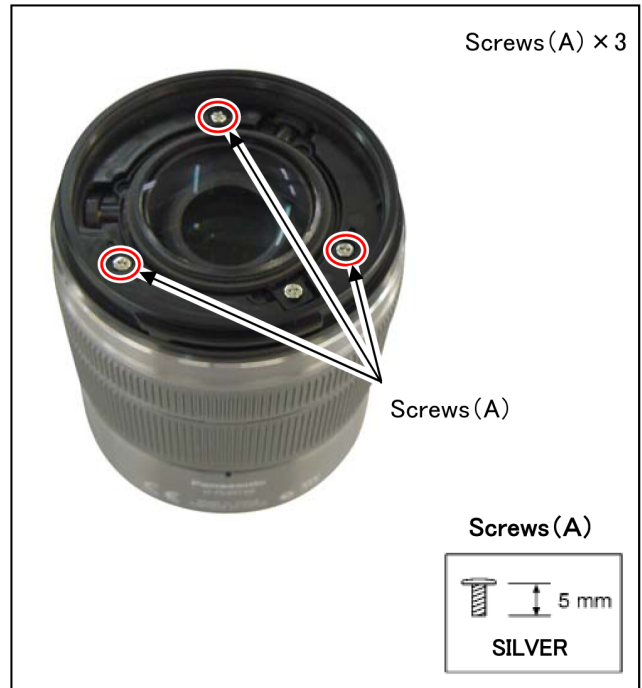
11.3.1.1. Removal of the Decoration Ring

1. Decoration ring is stuck on the 1st lens frame unit.
2. Put the sheet so that the lens glass is fully covered.
3. Insert the needle to Gap (A) (between the decoration ring and lens glass), and peel off the decoration ring gently.



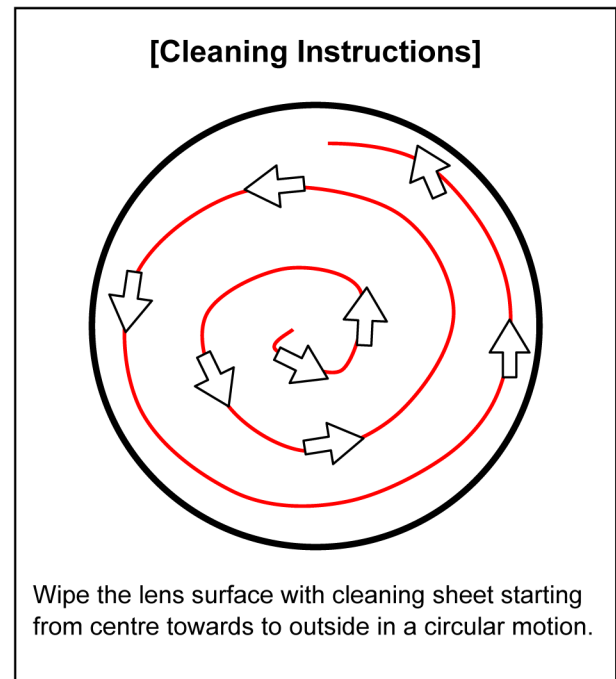
11.3.1.2. Removal of the 1st Lens Frame Unit

1. Remove the 3 screws (A).



11.3.1.3. Removal of a dust /dirt

1. Blow off the dust on the surface of the lens with a blower brush.
2. Use lens cleaning KIT(BK) (VFK1900BK), if necessary.



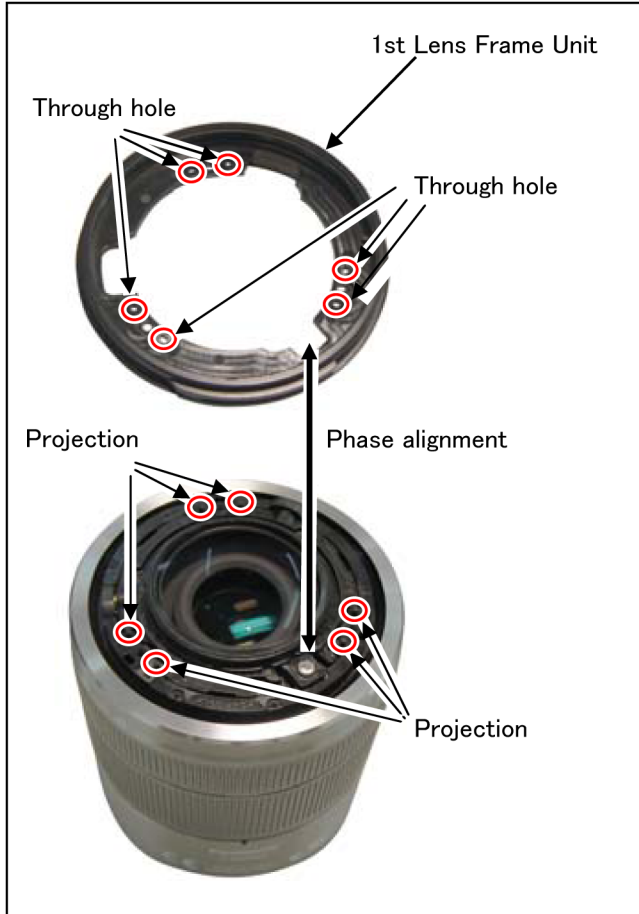
11.3.2. Assembly procedure

Important:

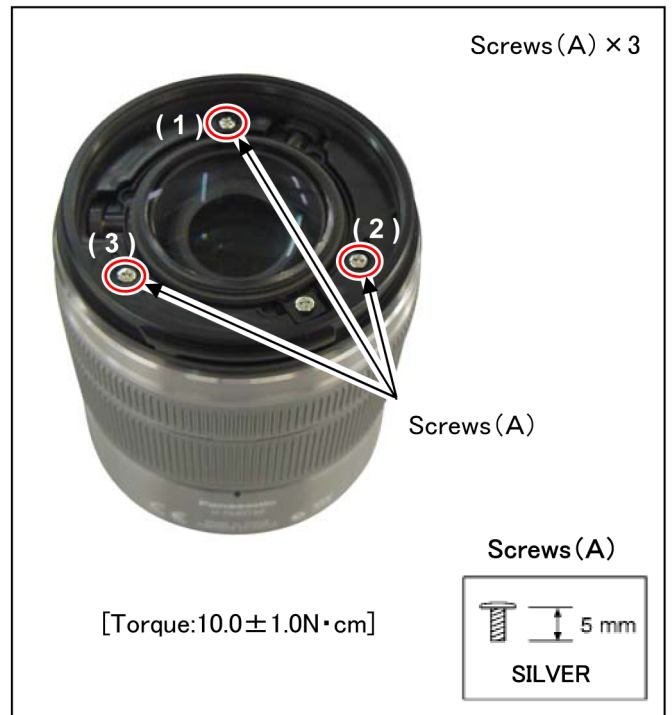
When tightening the screw, use a torque driver (RFKZ0456) by ordering the screwing order with specified torque described in each step.

11.3.2.1. Installation of the 1st lens frame unit

1. Install the 1st lens frame unit onto the lens unit to meet the through hole (A) with projection (A).

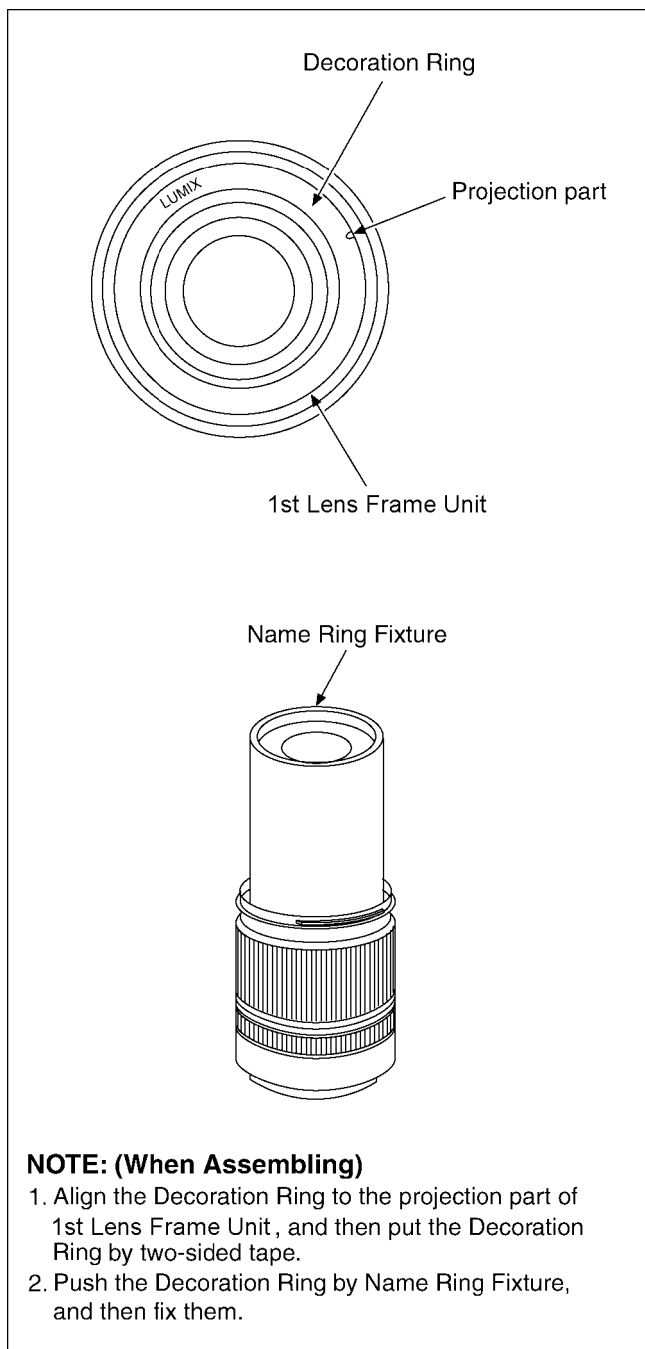


2. Tighten the 3 screws (A) with specified torque in numerical order.
(Torque Driver: RFKZ0456)
(Torque: 10.0 ± 1.0 N-cm)



11.3.2.2. Installation of the Decoration Ring

1. Use the Name Ring fixture (RFKZ0507)
2. Use new Decoration ring. (Do not use the one which is removed.)



NOTE: (When Assembling)

1. Align the Decoration Ring to the projection part of 1st Lens Frame Unit, and then put the Decoration Ring by two-sided tape.
2. Push the Decoration Ring by Name Ring Fixture, and then fix them.

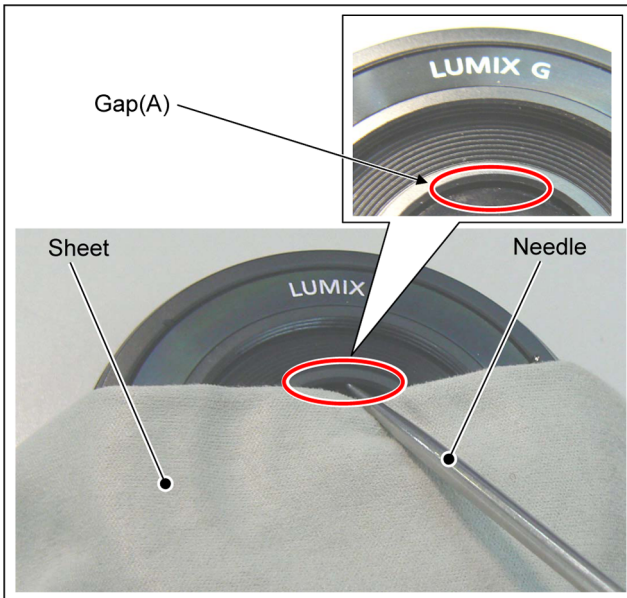
11.4. General description (Interchangeable Lens/H-PS14042)

- The interchangeable lens: H-PS14042 does not support cleaning of the inner surface of lens (inside the lens barrel).
- For cleaning of the outer surface of lens (the outer lens barrel), refer to the "11.1.2.2. DUST/DIRT ON THE LENS GLASSES".

11.4.1. Precautions for Disassembly and Assembly

11.4.1.1. Removal of the Decoring

1. Decoring is stuck on the lens(1).
2. Put the sheet so that the lens glass is fully covered.
3. Insert the needle to Gap (A) (between the Decoring and lens glass), and peel off the Decoring gently.



11.4.1.2. Installation of the Decoring

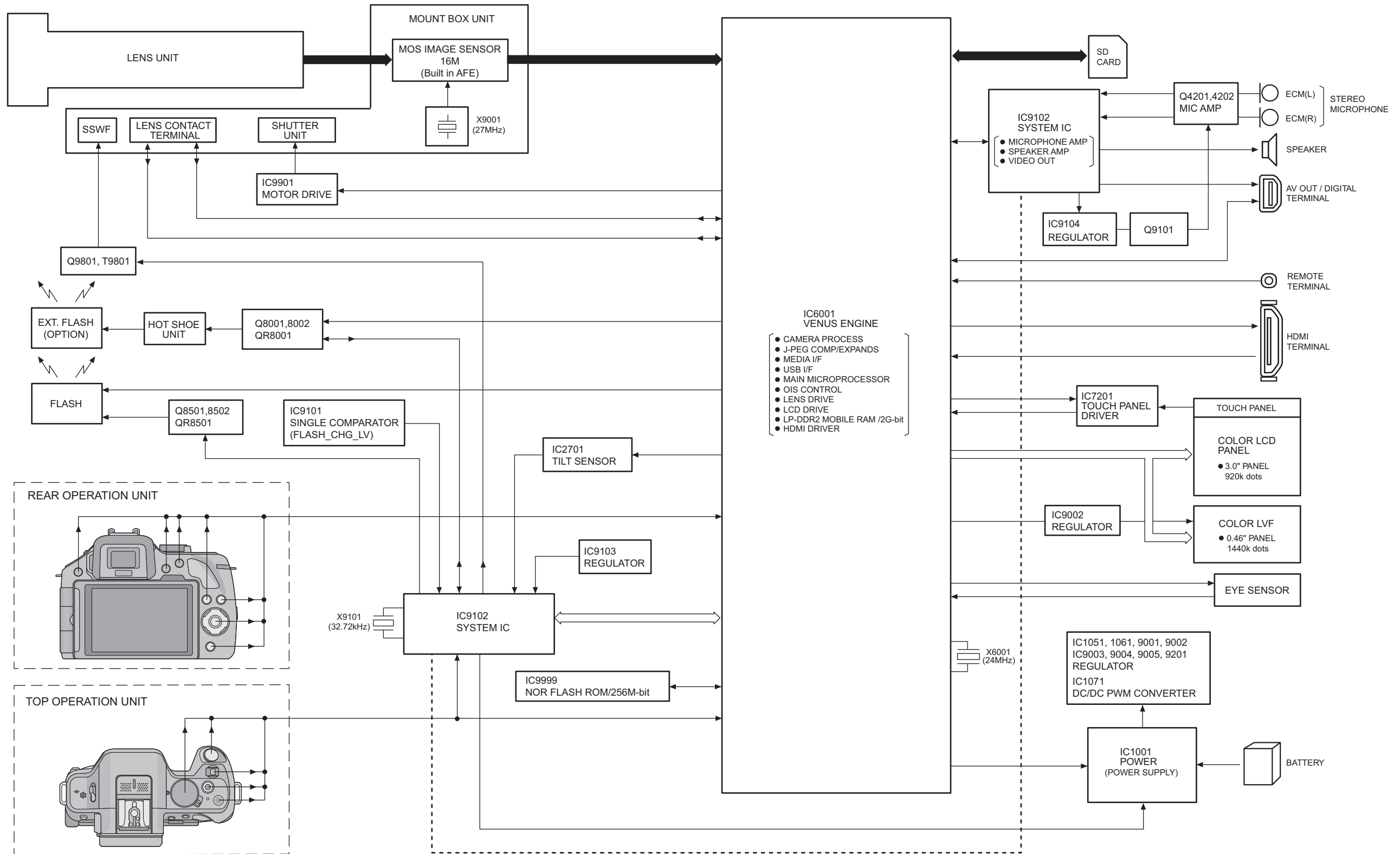
1. Align the hole of Decoring and the character "LUMIX G", and then stick them.
- Use new Decoring. (Do not use the one which is removed.) After installing the Decoring, press the Decoring with your finger.



12 Block Diagram

12.1. Overall Block Diagram

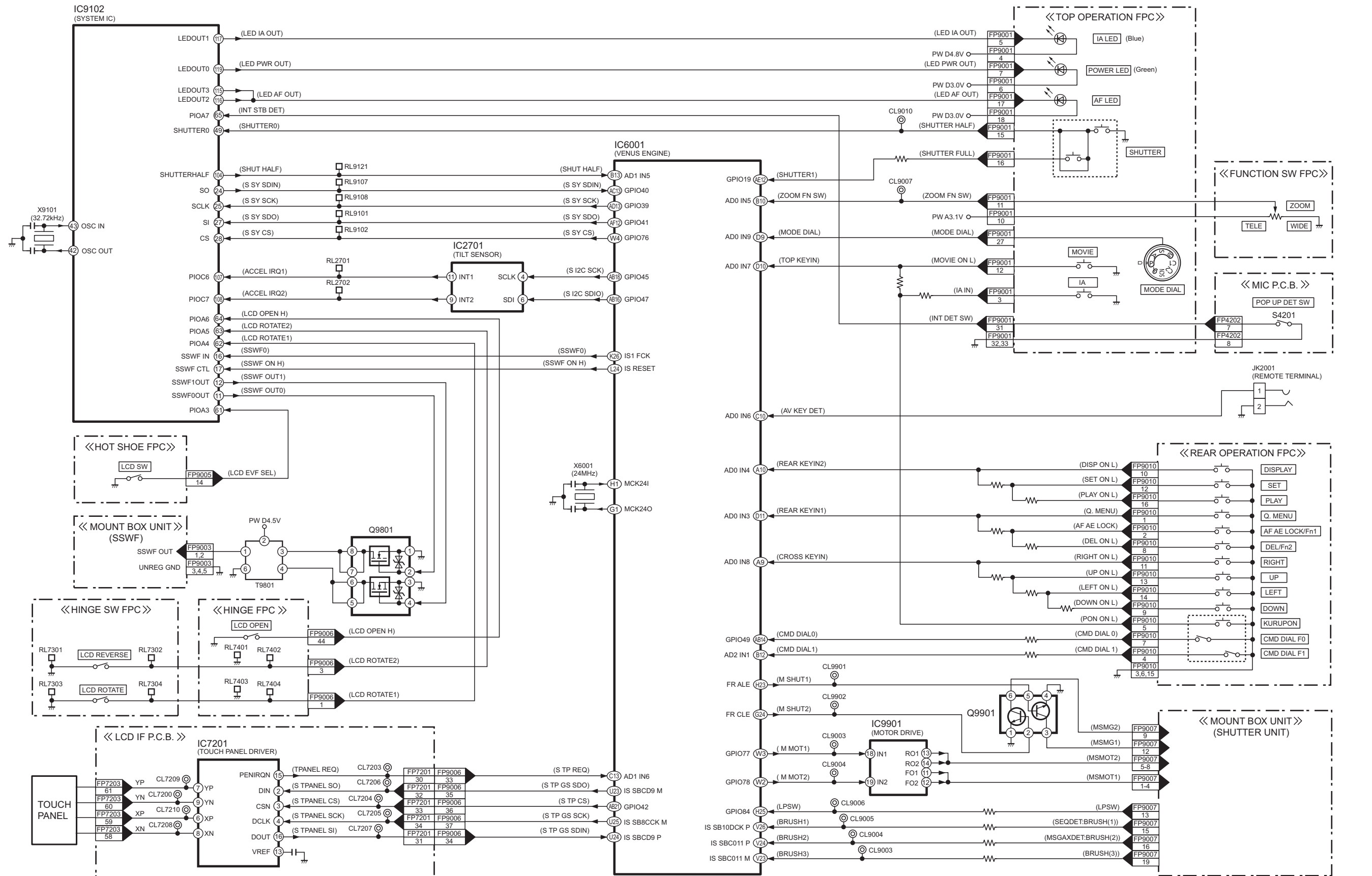
OVERALL BLOCK DIAGRAM



DMC-G5 OVERALL BLOCK DIAGRAM

12.2. System Control Block Diagram

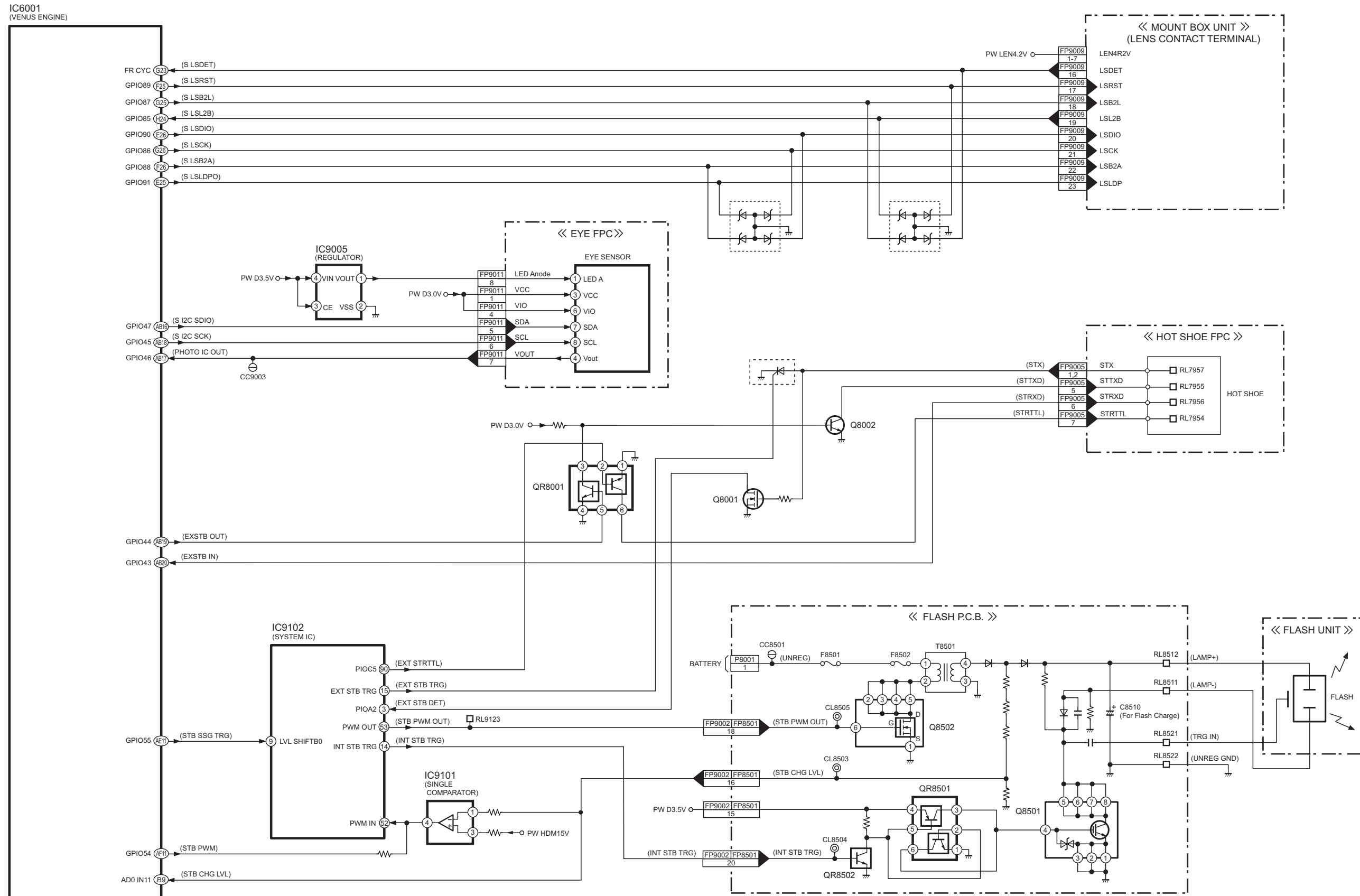
SYSTEM CONTROL BLOCK DIAGRAM



DMC-G5 SYSTEM CONTROL BLOCK DIAGRAM

12.4. Eye Sensor/Lens/Flash Block Diagram

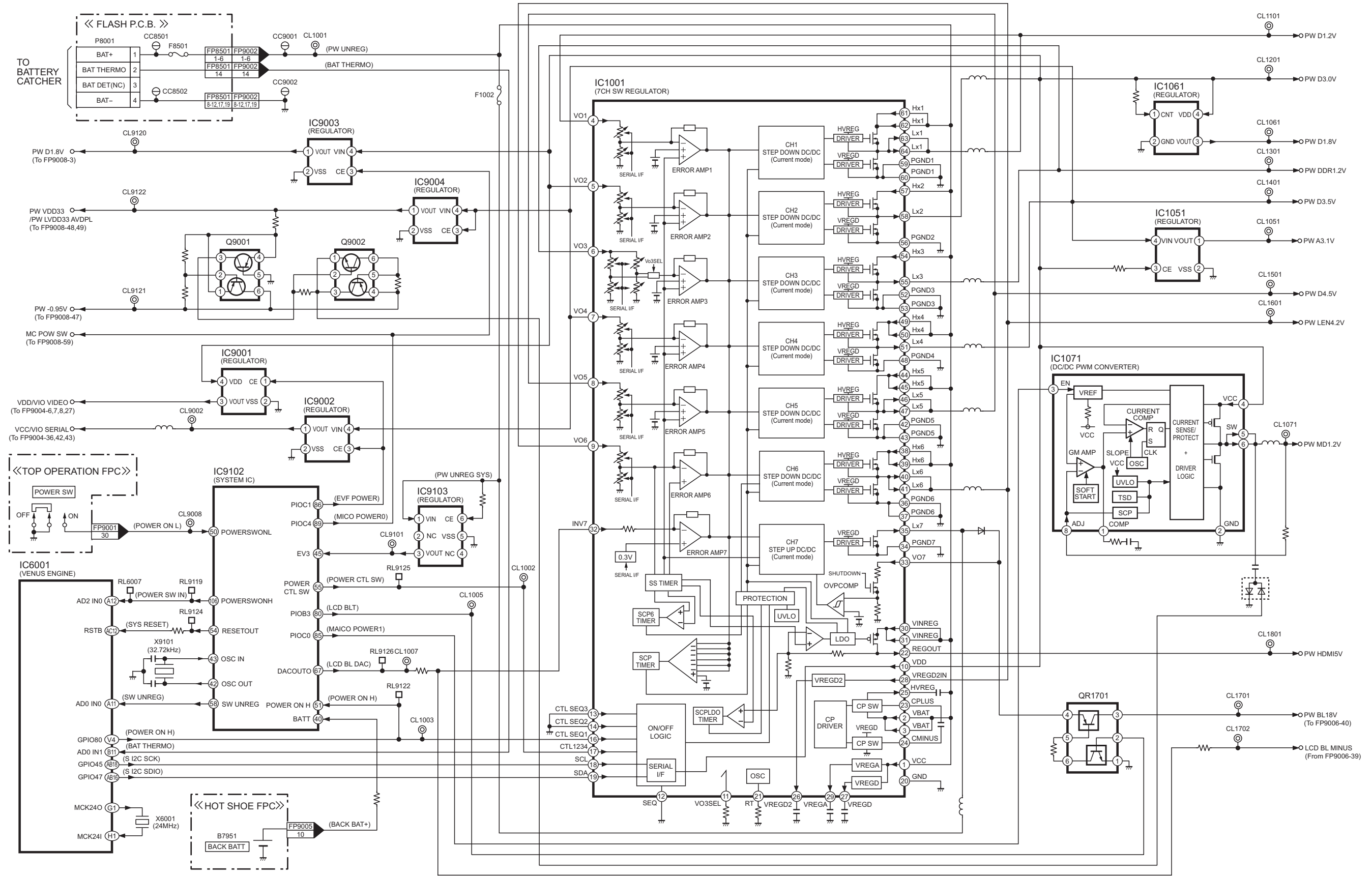
◆ EYE SENSOR/LENS/FLASH BLOCK DIAGRAM



DMC-G5 EYE SENSOR/LENS/FLASH BLOCK DIAGRAM

12.5. Power Block Diagram

POWER BLOCK DIAGRAM

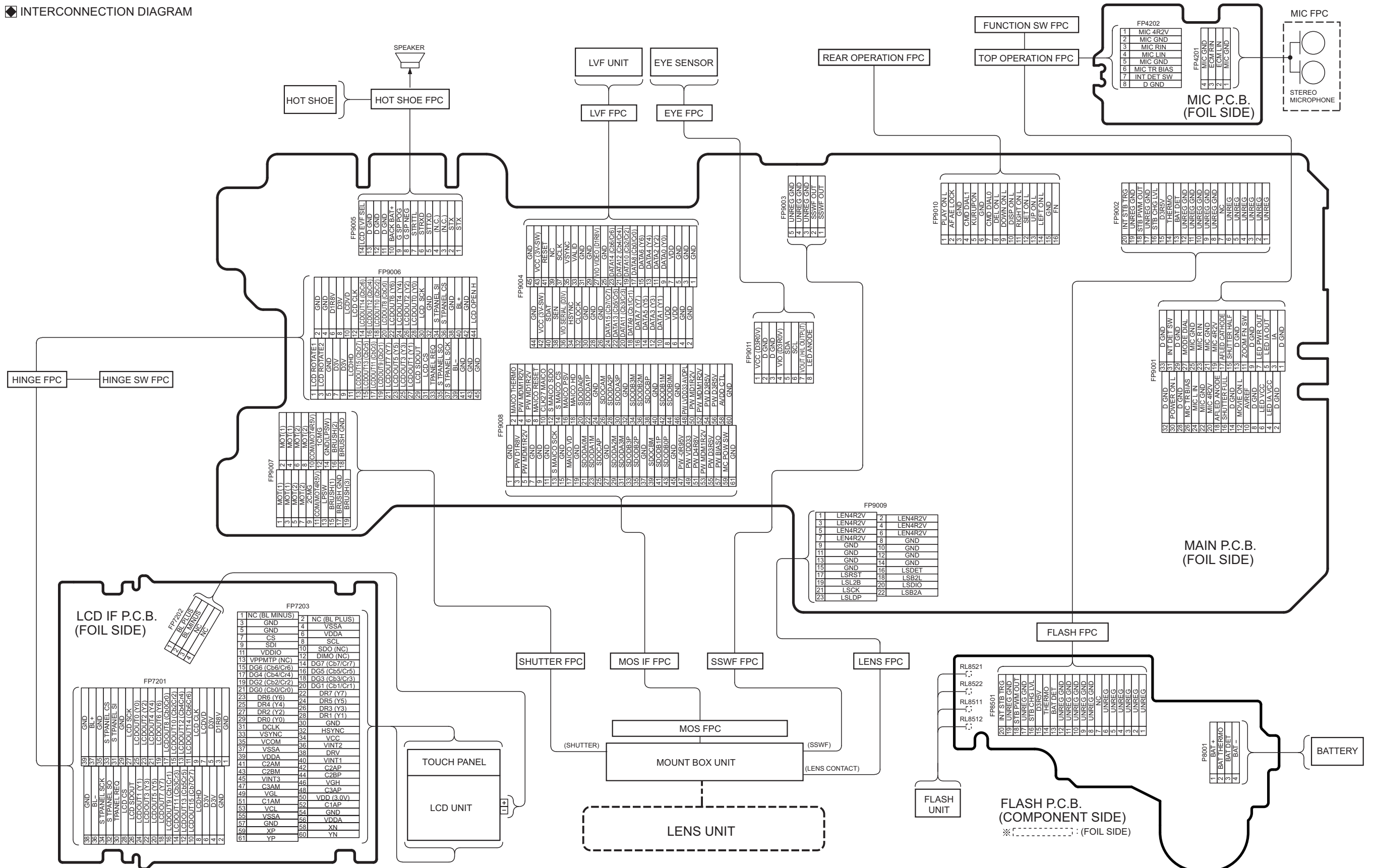


DMC-G5 POWER BLOCK DIAGRAM

13 Wiring Connection Diagram

13.1. Interconnection Diagram

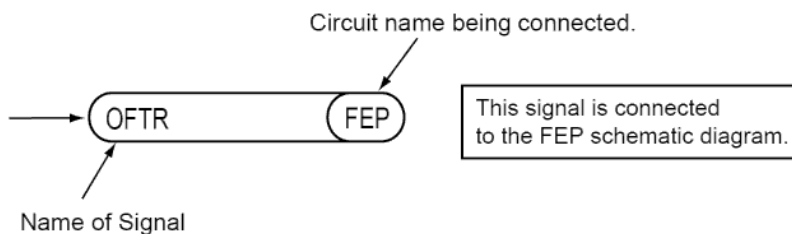
◆ INTERCONNECTION DIAGRAM



IMPORTANT SAFETY NOTICE:

COMPONENTS IDENTIFIED WITH THE MARK ⚠ 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. Use the parts number indicated on the Replacement Parts List .
4. Indication on Schematic diagrams:



5. It might be taking time for display and/or access of the Schematic Diagrams & P. C. B having the heavy data volume.

Model No. : DMC-G5/G5K/G5X/G5W Parts List Note

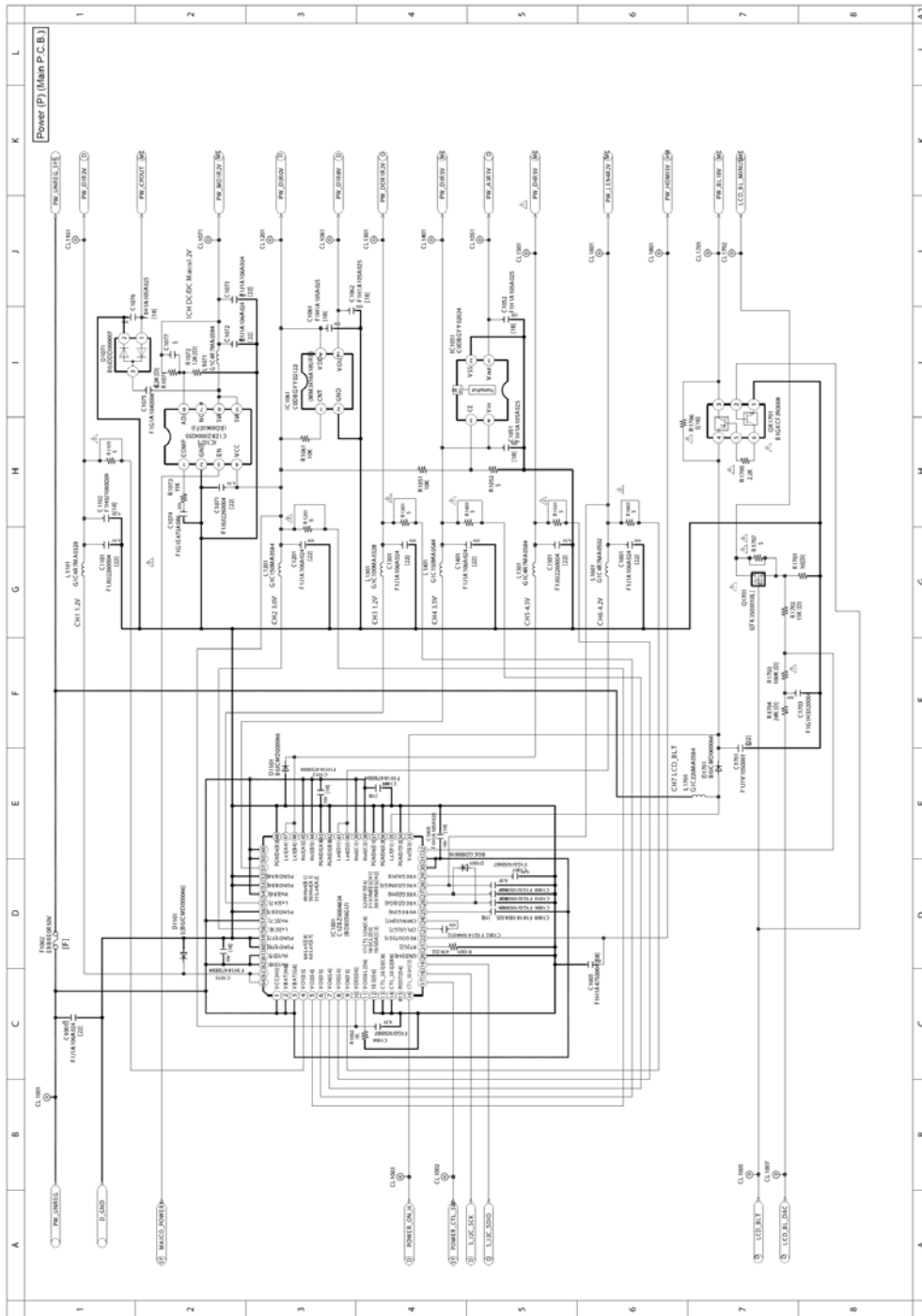
- Note:
1. * Be sure to make your orders of replacement parts according to this list.
 2. IMPORTANT SAFETY NOTICE
Components identified with the mark \triangle have the special characteristics for safety.
When replacing any of these components, use only the same type.
 3. Unless otherwise specified,
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.
 5. Supply of CD-ROM, in accordance with license protection, is allowable as replacement parts only for customers who accidentally damaged or lost their own.

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

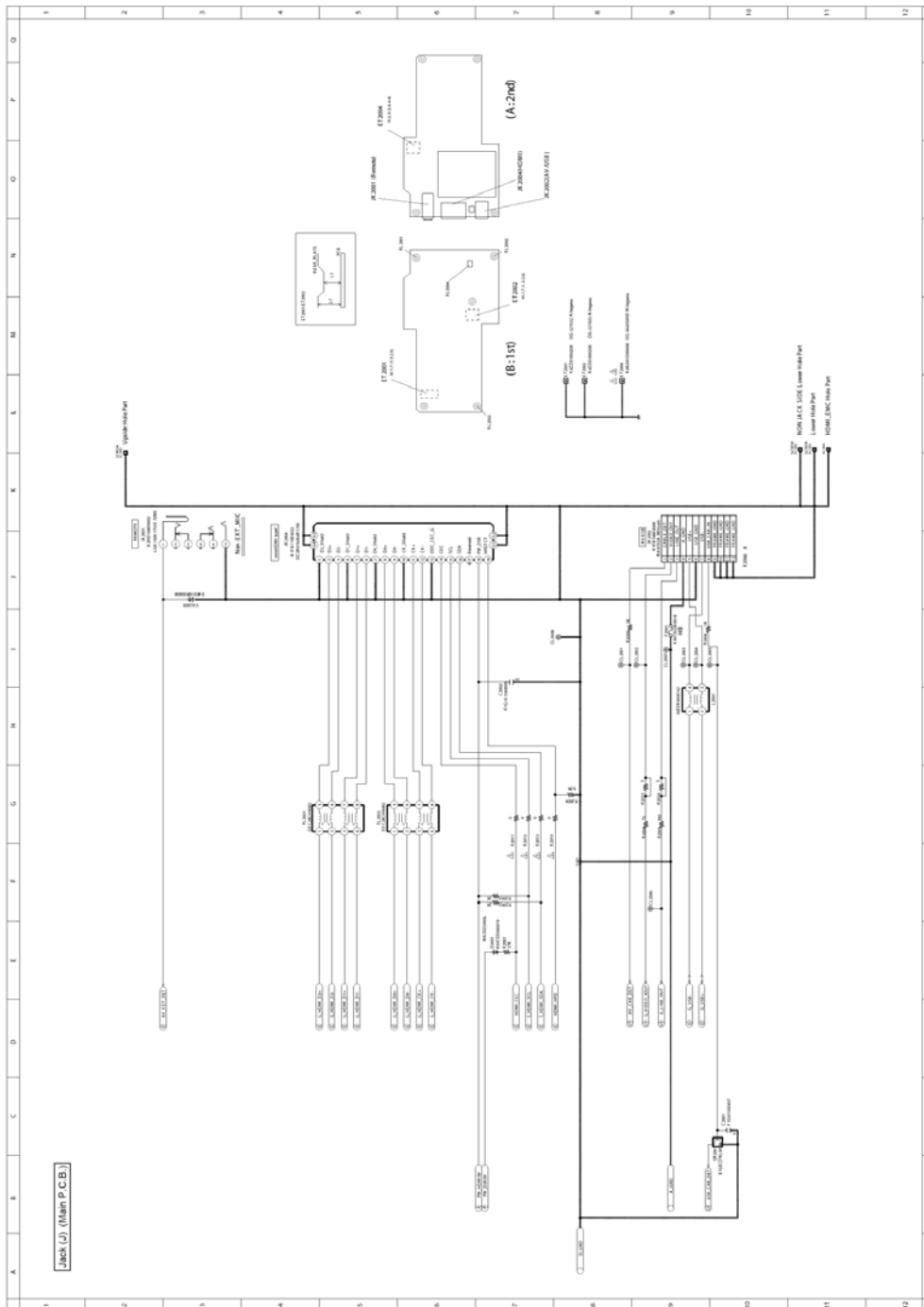
Definition of Parts supplier:

1. Parts marked with [ENERGY] in the remarks column are supplied from Panasonic Corporation Energy Company.
2. Parts marked with [SPC] in the remarks column are supplied from AVC-CSC-SPC. Others are supplied from PAVCX.

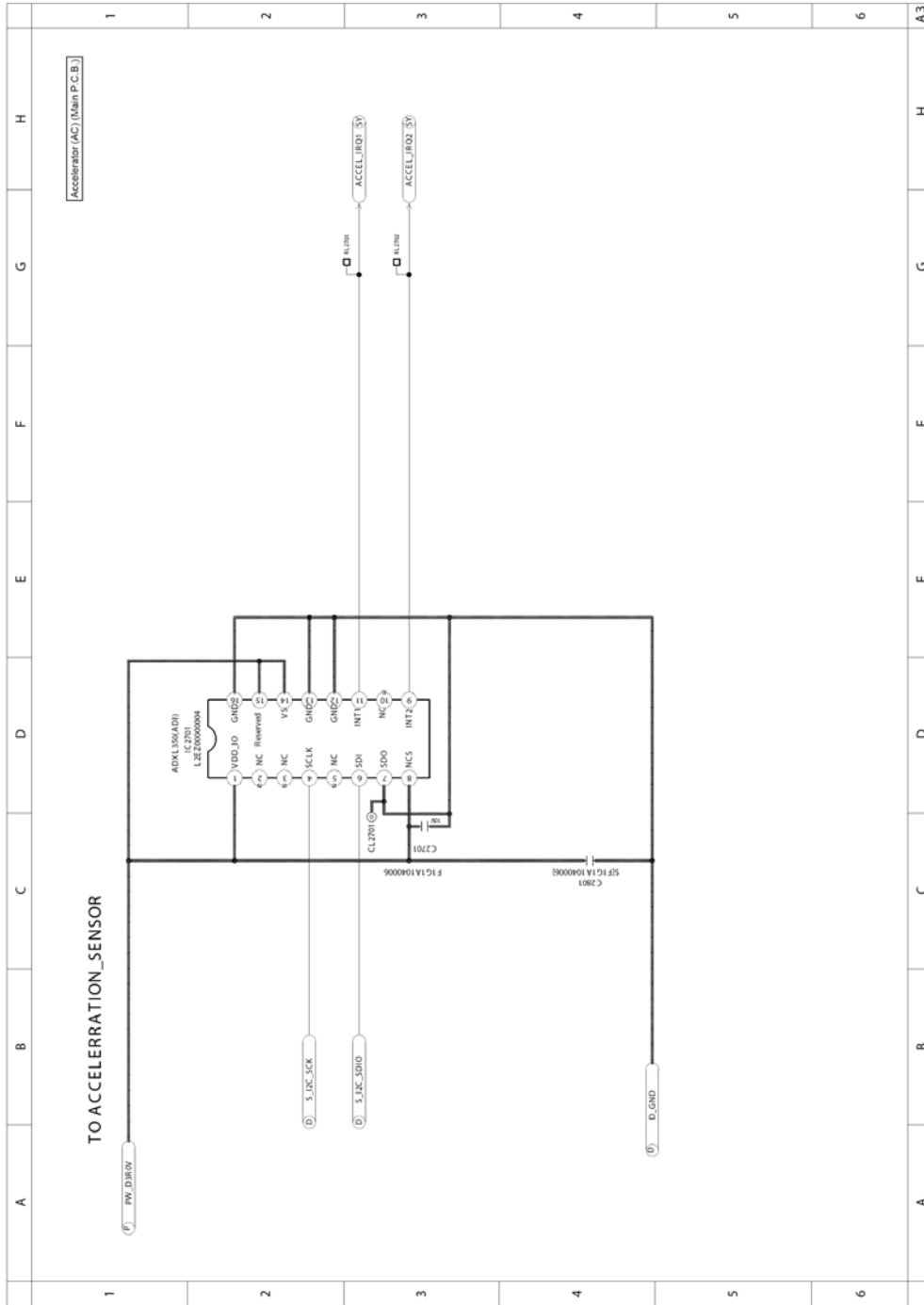
Model No. : DMC-G5/G5K/G5X/G5W Power (P) (Main P.C.B.)



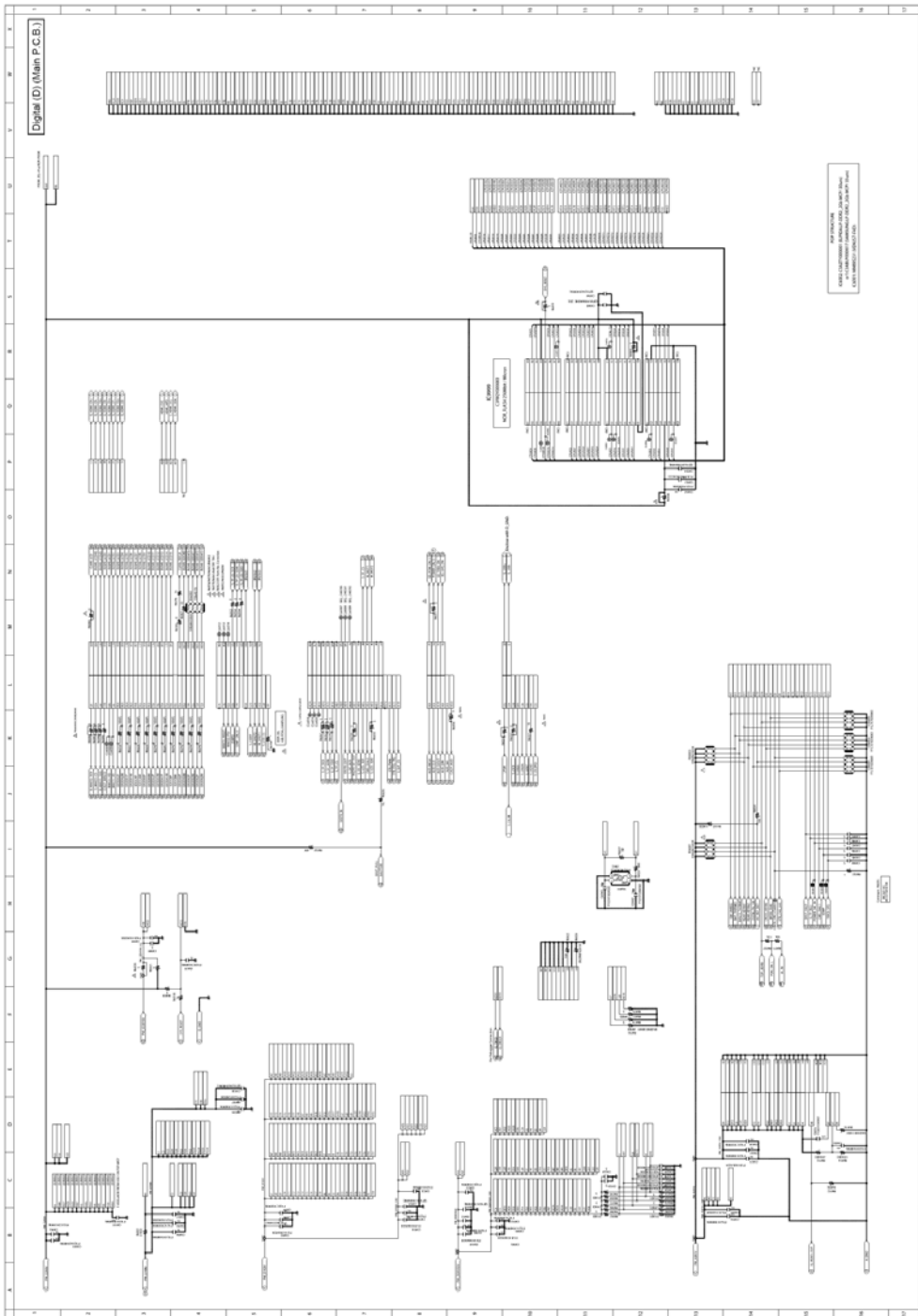
Model No. : DMC-G5/G5K/G5X/G5W Jack (J) (Main P.C.B.)



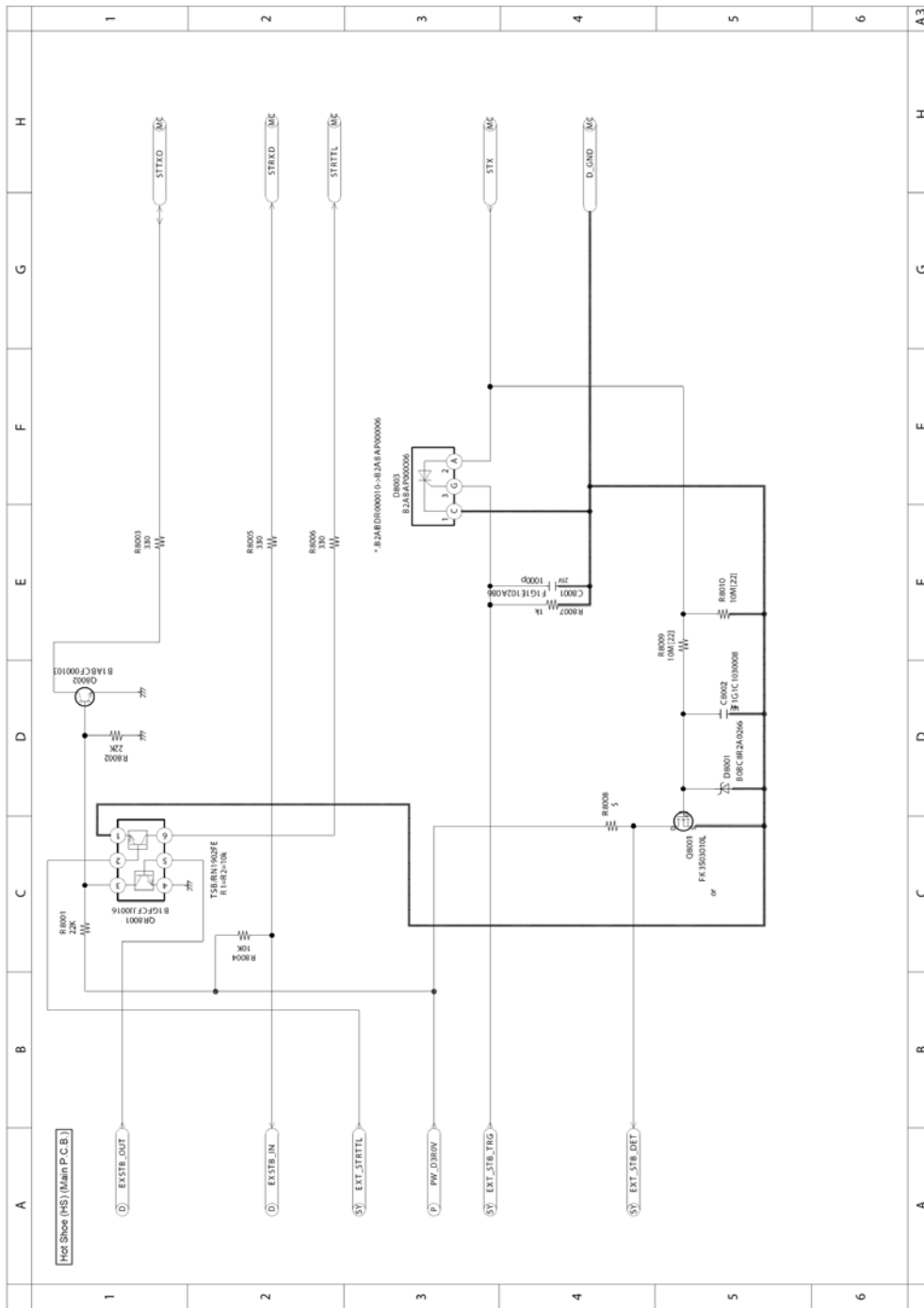
Model No. : DMC-G5/G5K/G5X/G5W Accelerator (AC) (Main P.C.B.)



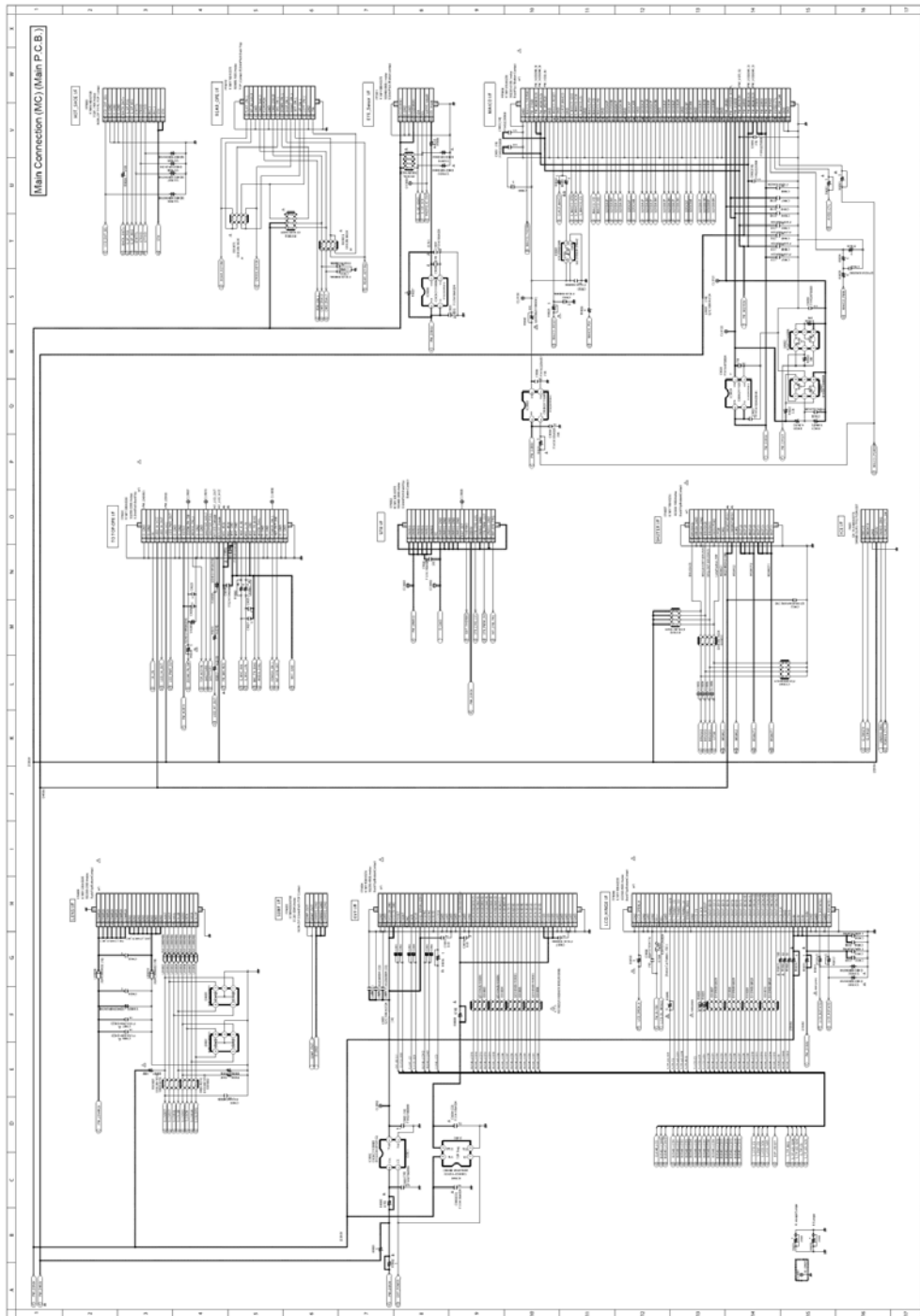
Model No. : DMC-G5/G5K/G5X/G5W Digital (D) (Main P.C.B.)



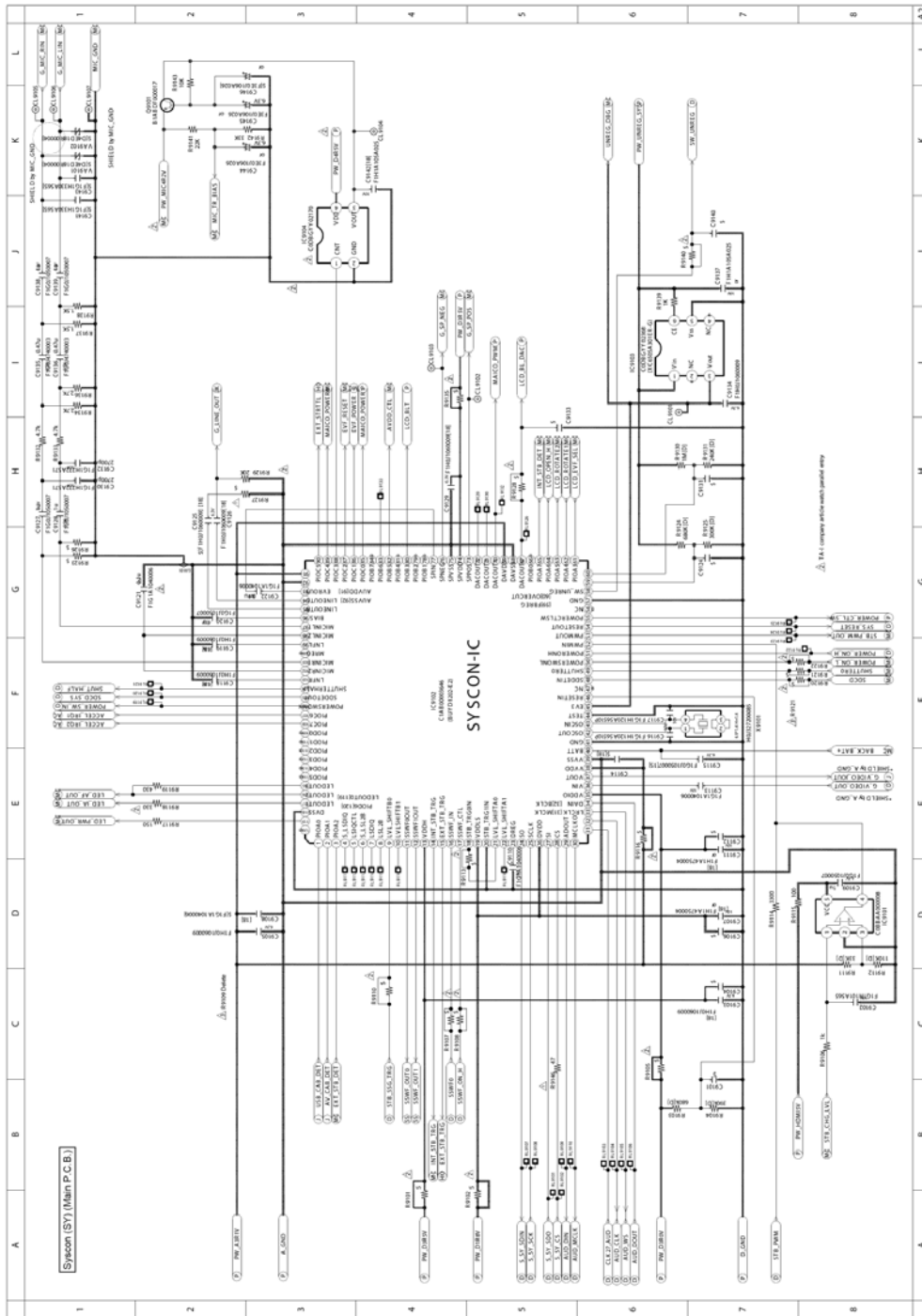
Model No. : DMC-G5/G5K/G5X/G5W Hot Shoe (HS) (Main P.C.B.)



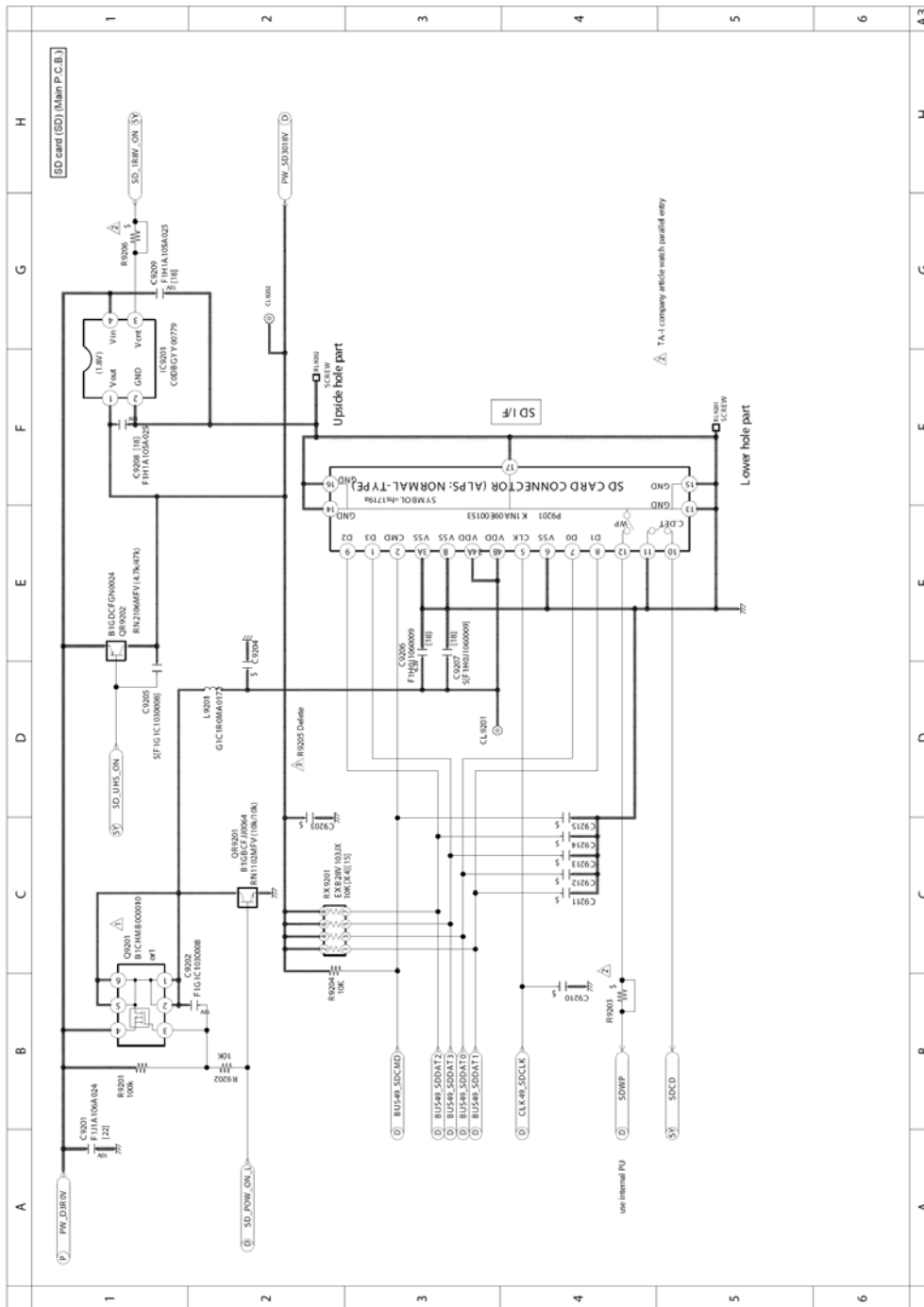
Model No. : DMC-G5/G5K/G5X/G5W Main Connection (MC) (Main P.C.B.)



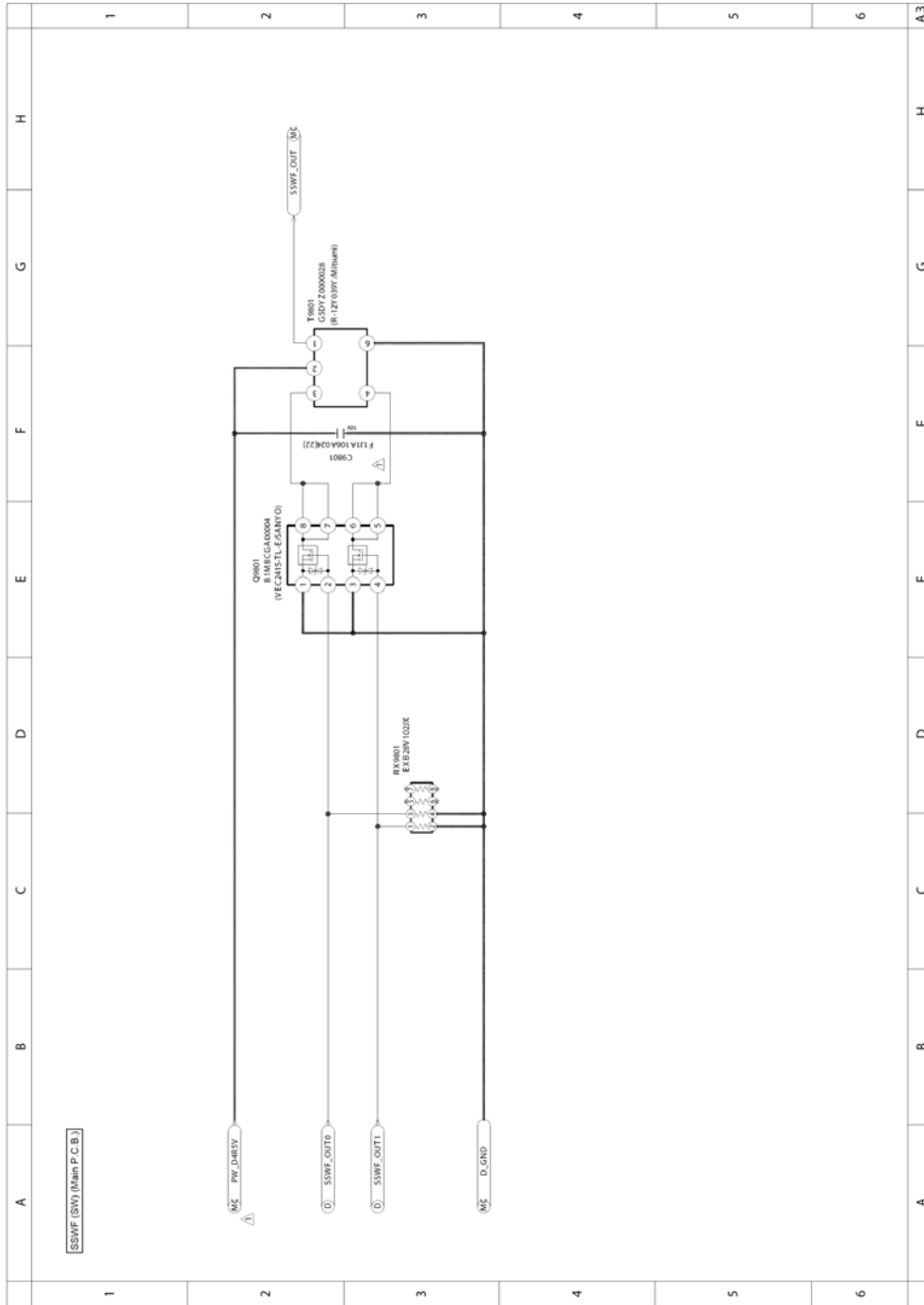
Model No. : DMC-G5/G5K/G5X/G5W Syscon (SY) (Main P.C.B.)



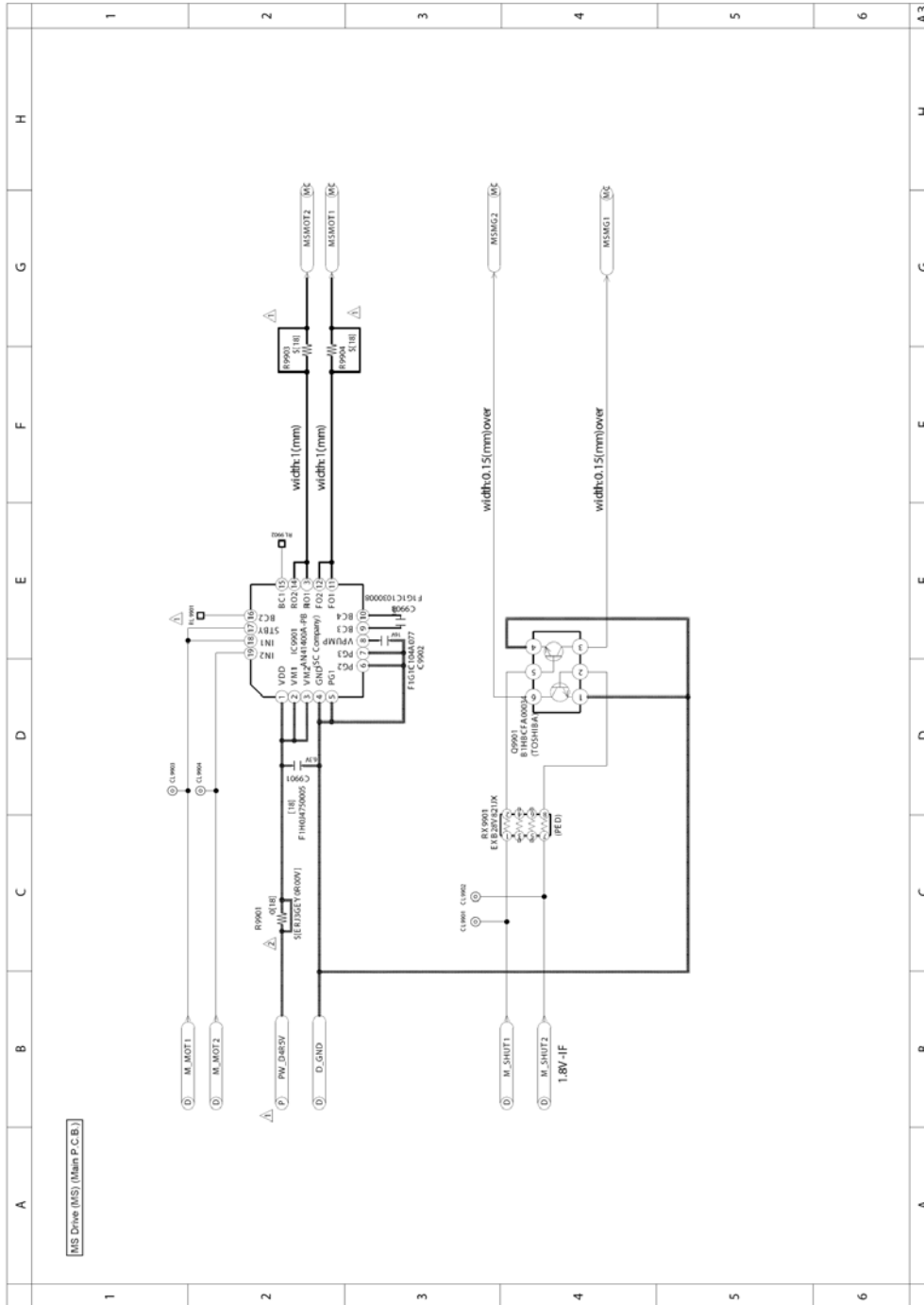
Model No. : DMC-G5/G5K/G5X/G5W SD card (SD) (Main P.C.B.)



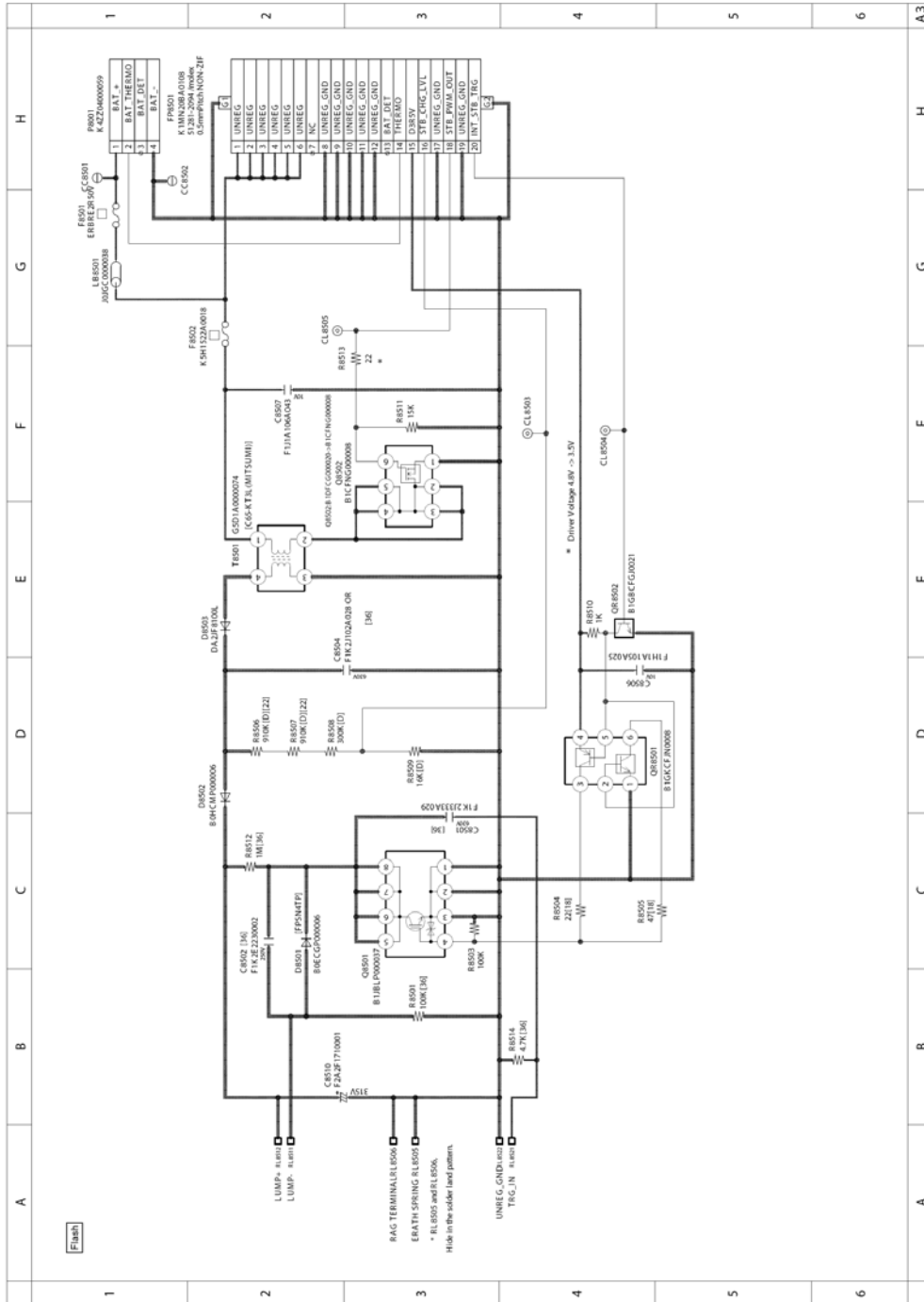
Model No. : DMC-G5/G5K/G5X/G5W SSWF (SW) (Main P.C.B.)



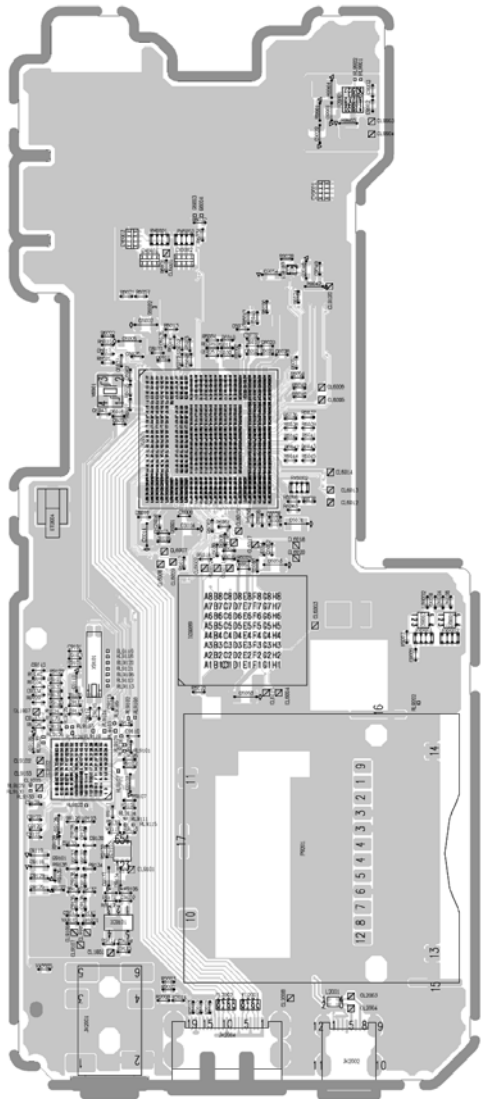
Model No. : DMC-G5/G5K/G5X/G5W MS Drive (MS) (Main P.C.B.)



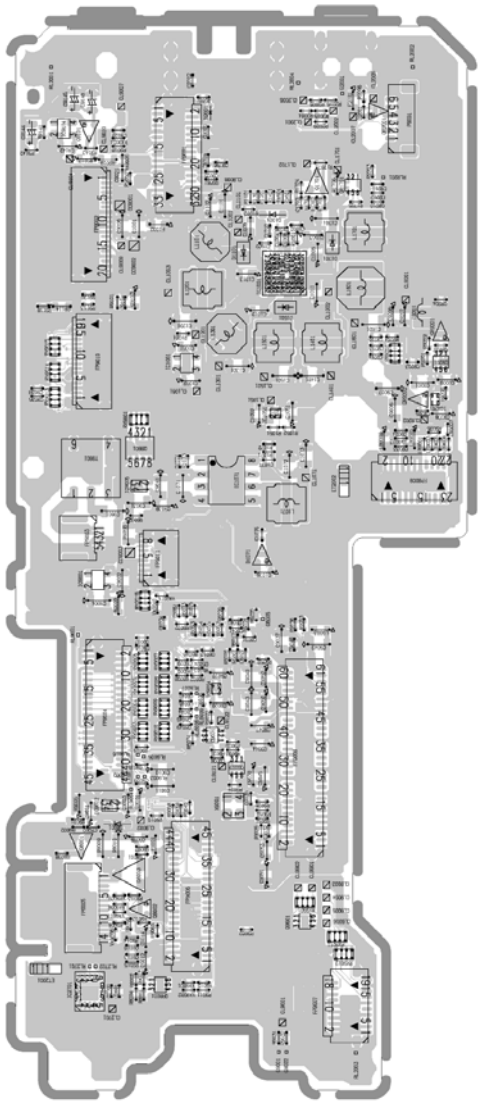
Model No. : DMC-G5/G5K/G5X/G5W Flash



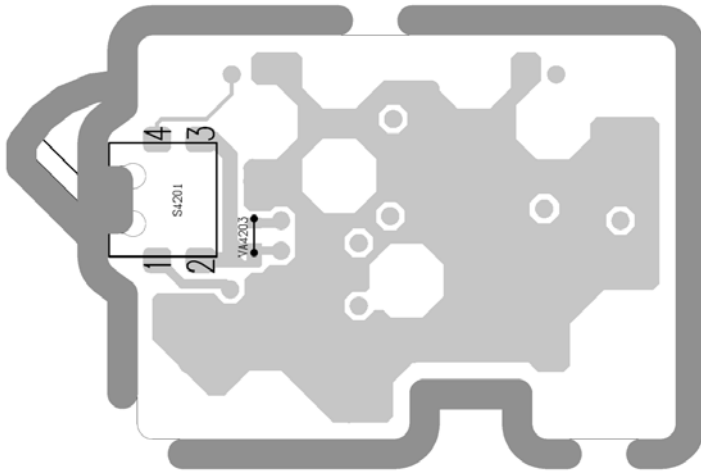
Model No. : DMC-G5/G5K/G5X/G5W Main P.C.B. (Component Side)



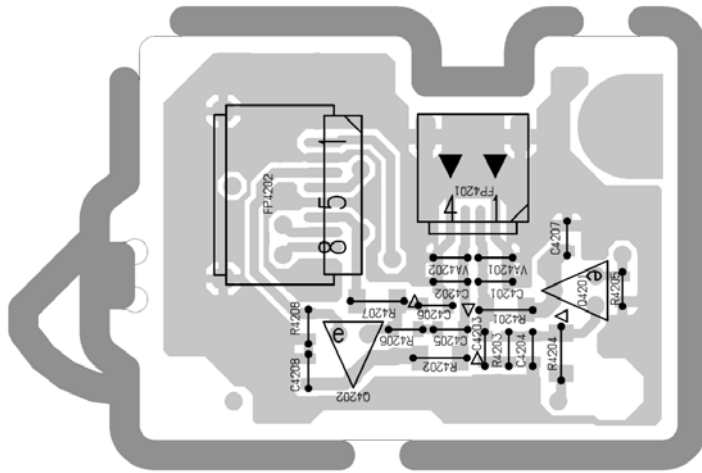
Model No. : DMC-G5/G5K/G5X/G5W Main P.C.B. (Foil Side)



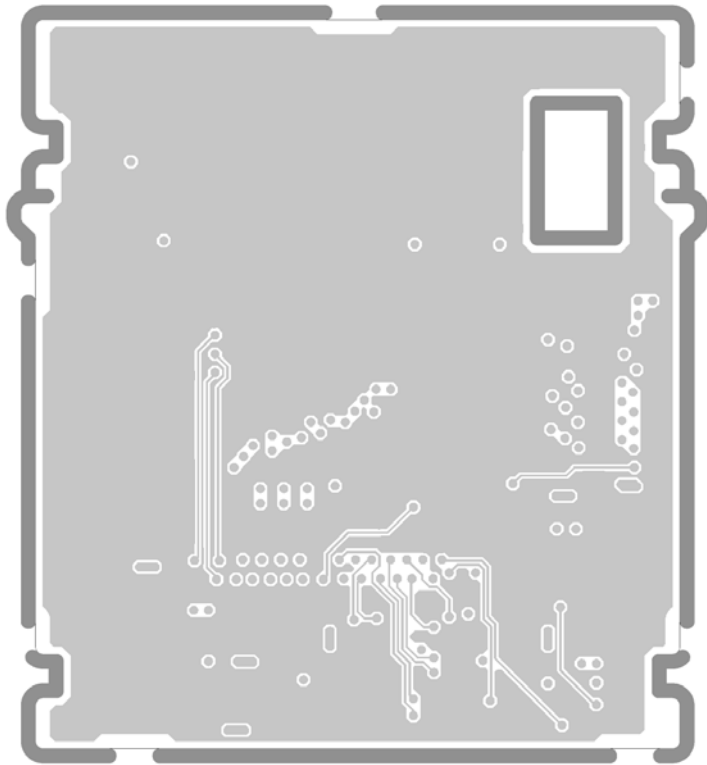
Model No. : DMC-G5/G5K/G5X/G5W Mic P.C.B. (Component Side)



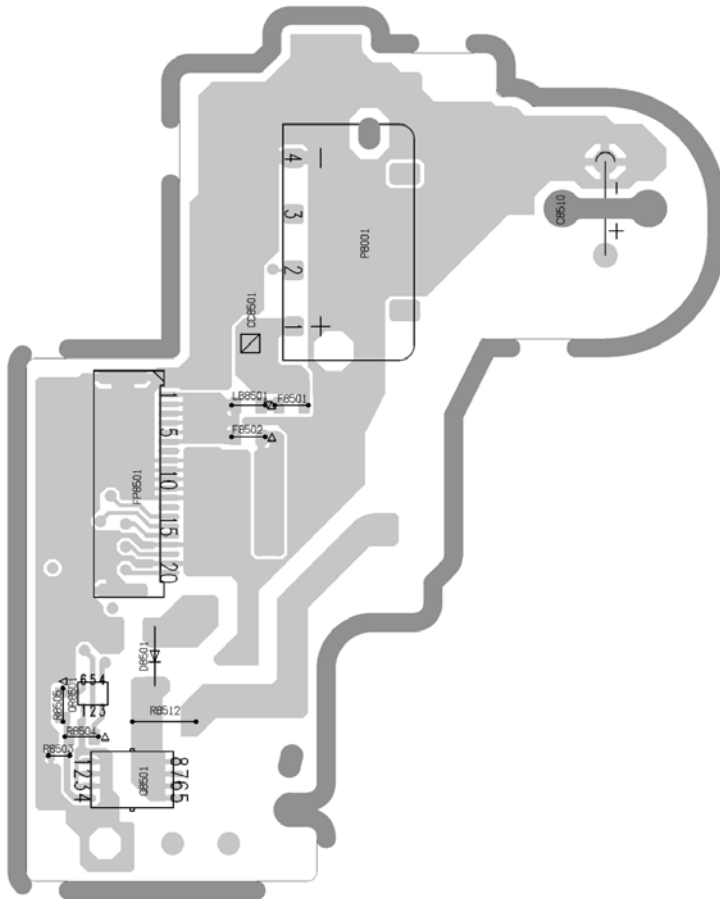
Model No. : DMC-G5/G5K/G5X/G5W Mic P.C.B. (Foil Side)



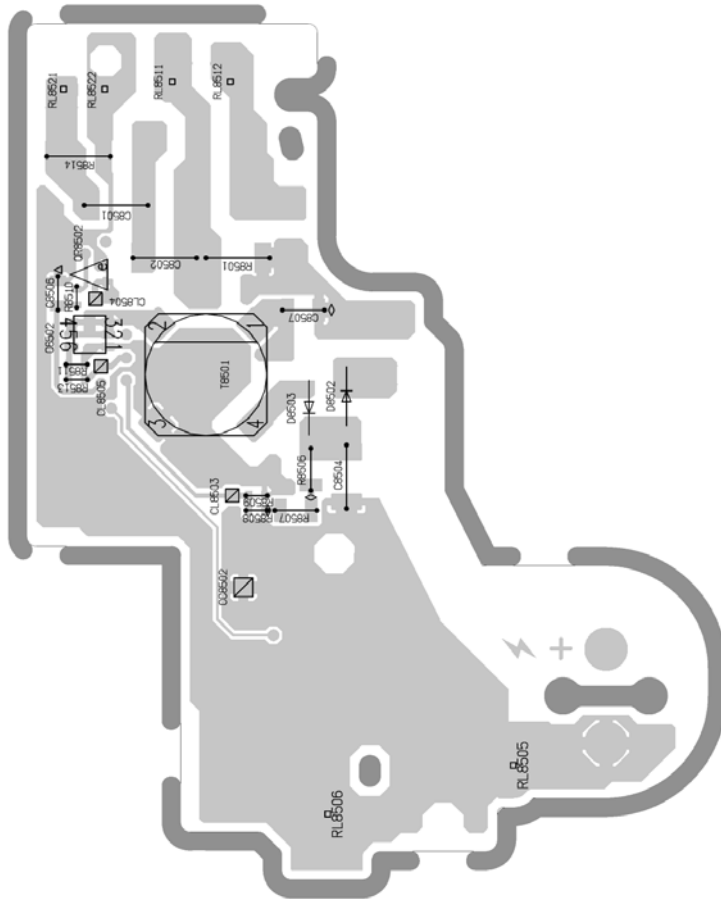
Model No. : DMC-G5/G5K/G5X/G5W LCD IF P.C.B. (Component Side)

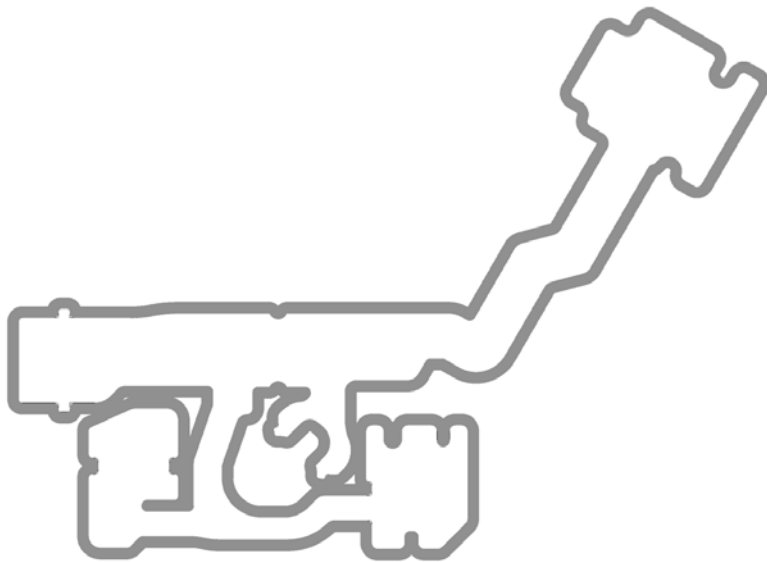


Model No. : DMC-G5/G5K/G5X/G5W Flash P.C.B. (Component Side)



Model No. : DMC-G5/G5K/G5X/G5W Flash P.C.B. (Foil Side)





Model No. : DMC-G5/G5K/G5X/G5W Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C1001	F1J1A106A024	C.CAPACITOR CH 10V 10U	1	
		C1002	F1G1A104A012	C.CAPACITOR CH 10V 0.1U	1	
		C1003	F1H1A105A025	C.CAPACITOR CH 10V 1U	1	
		C1004	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C1005	F1H1A4750004	C.CAPACITOR CH 10V 4.7U	1	
		C1006	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C1007	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C1008	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C1009	F1H1A105A025	C.CAPACITOR CH 10V 1U	1	
		C1010	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C1011	F1H1A4750004	C.CAPACITOR CH 10V 4.7U	1	
		C1012	F1H1A4750004	C.CAPACITOR CH 10V 4.7U	1	
		C1013	F1H1A4750004	C.CAPACITOR CH 10V 4.7U	1	
		C1051	F1H0J1060009	C.CAPACITOR CH 6.3V 10U	1	
		C1052	F1H1A105A025	C.CAPACITOR CH 10V 1U	1	
		C1061	F1H1A105A025	C.CAPACITOR CH 10V 1U	1	
		C1062	F1H1A105A025	C.CAPACITOR CH 10V 1U	1	
		C1071	F1J0J2260004	C.CAPACITOR CH 6.3V 22U	1	
		C1072	F1J1A106A024	C.CAPACITOR CH 10V 10U	1	
		C1073	F1J1A106A024	C.CAPACITOR CH 10V 10U	1	
		C1074	F1G1E472A086	C.CAPACITOR CH 25V 4700P	1	
		C1075	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C1076	F1H1A105A025	C.CAPACITOR CH 10V 1U	1	
		C1101	F1J0J2260004	C.CAPACITOR CH 6.3V 22U	1	
		C1102	F1H0J1060009	C.CAPACITOR CH 6.3V 10U	1	
		C1201	F1J1A106A024	C.CAPACITOR CH 10V 10U	1	
		C1301	F1J1A106A024	C.CAPACITOR CH 10V 10U	1	
		C1401	F1J0J2260004	C.CAPACITOR CH 6.3V 22U	1	
		C1501	F1J0J2260004	C.CAPACITOR CH 6.3V 22U	1	
		C1601	F1J1A106A024	C.CAPACITOR CH 10V 10U	1	
		C1701	F1J1V1050001	C.CAPACITOR CH 35V 1U	1	
		C1703	F1G1H3320004	C.CAPACITOR CH 50V 3300P	1	
		C2001	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C2002	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C2701	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C4203	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C4205	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C4207	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C4208	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C6001	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C6002	F1J1A106A024	C.CAPACITOR CH 10V 10U	1	
		C6003	F1G1C1030008	C.CAPACITOR CH 16V 0.01U	1	
		C6004	F1J1A106A024	C.CAPACITOR CH 10V 10U	1	
		C6005	F1J1A106A024	C.CAPACITOR CH 10V 10U	1	
		C6006	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C6007	F1G1H3310003	C.CAPACITOR CH 50V 330P	1	
		C6008	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C6009	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C6010	F1G1C1030008	C.CAPACITOR CH 16V 0.01U	1	
		C6011	F1G1C1030008	C.CAPACITOR CH 16V 0.01U	1	
		C6013	F1G1C1030008	C.CAPACITOR CH 16V 0.01U	1	
		C6014	F1J1A106A024	C.CAPACITOR CH 10V 10U	1	
		C6015	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C6016	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C6017	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C6018	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C6020	F1G1C1030008	C.CAPACITOR CH 16V 0.01U	1	
		C6022	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C6023	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C6024	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C6027	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C6029	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	






Model No. : DMC-G5/G5K/G5X/G5W Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C6031	F1J1A106A024	C.CAPACITOR CH 10V 10U	1	
		C6032	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C6033	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C6034	F1G1C1030008	C.CAPACITOR CH 16V 0.01U	1	
		C6035	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C6036	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C6037	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C6039	F1G1C1030008	C.CAPACITOR CH 16V 0.01U	1	
		C6041	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C6042	F1G1H100A565	C.CAPACITOR CH 50V 10P	1	
		C6043	F1G1H100A565	C.CAPACITOR CH 50V 10P	1	
		C6052	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C6053	F1J1A106A024	C.CAPACITOR CH 10V 10U	1	
		C7200	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C7204	F1H0J2250003	C.CAPACITOR CH 6.3V 2.2U	1	
		C7206	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C7207	F1G1E102A086	C.CAPACITOR CH 25V 1000P	1	
		C7208	F1G1E102A086	C.CAPACITOR CH 25V 1000P	1	
		C7209	F1G1E102A086	C.CAPACITOR CH 25V 1000P	1	
		C7210	F1G1E102A086	C.CAPACITOR CH 25V 1000P	1	
		C7211	F1H1A105A036	C.CAPACITOR CH 10V 1U	1	
		C7212	F1H1A4750004	C.CAPACITOR CH 10V 4.7U	1	
		C7213	F1H1A4750004	C.CAPACITOR CH 10V 4.7U	1	
		C7214	F1H1A4750004	C.CAPACITOR CH 10V 4.7U	1	
		C7215	F1G1C1030008	C.CAPACITOR CH 16V 0.01U	1	
		C7216	F1H0J4750005	C.CAPACITOR CH 6.3V 4.7U	1	
		C7218	F1H1E105A144	C.CAPACITOR CH 25V 1U	1	
		C7219	F1H1E105A144	C.CAPACITOR CH 25V 1U	1	
		C7220	F1H1C105A095	C.CAPACITOR CH 16V 1U	1	
		C7221	F1H0J2250003	C.CAPACITOR CH 6.3V 2.2U	1	
		C7222	F1H1A4750004	C.CAPACITOR CH 10V 4.7U	1	
		C7223	F1H1A4750004	C.CAPACITOR CH 10V 4.7U	1	
		C7224	F1H0J2250003	C.CAPACITOR CH 6.3V 2.2U	1	
		C7225	F1H0J2250003	C.CAPACITOR CH 6.3V 2.2U	1	
		C7226	F1H1C105A095	C.CAPACITOR CH 16V 1U	1	
		C7227	F1H1E105A144	C.CAPACITOR CH 25V 1U	1	
		C7228	F1H1C105A095	C.CAPACITOR CH 16V 1U	1	
		C7229	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C8001	F1G1E102A086	C.CAPACITOR CH 25V 1000P	1	
		C8002	F1G1C1030008	C.CAPACITOR CH 16V 0.01U	1	
		C8501	F1K2J333A029	C.CAPACITOR 630V 0.033U	1	
		C8502	F1K2E2230002	C.CAPACITOR 250V 0.022U	1	
		C8504	F1K2J102A028	C.CAPACITOR 630V 1000P	1	
		C8506	F1H1A105A025	C.CAPACITOR CH 10V 1U	1	
		C8507	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C9001	F1H0J1060009	C.CAPACITOR CH 6.3V 10U	1	
		C9002	F1J1A106A024	C.CAPACITOR CH 10V 10U	1	
		C9003	F1H0J1060009	C.CAPACITOR CH 6.3V 10U	1	
		C9004	F1J1A106A024	C.CAPACITOR CH 10V 10U	1	
		C9005	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C9006	F1J1A106A024	C.CAPACITOR CH 10V 10U	1	
		C9007	F1J1A106A024	C.CAPACITOR CH 10V 10U	1	
		C9008	F1H1E105A116	C.CAPACITOR CH 25V 1U	1	
		C9009	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C9010	F1J0J2260004	C.CAPACITOR CH 6.3V 22U	1	
		C9011	F1J0J2260004	C.CAPACITOR CH 6.3V 22U	1	
		C9013	F1G1C1030008	C.CAPACITOR CH 16V 0.01U	1	
		C9015	F1G1C1030008	C.CAPACITOR CH 16V 0.01U	1	
		C9016	F1G1C1030008	C.CAPACITOR CH 16V 0.01U	1	
		C9017	F1G1C1030008	C.CAPACITOR CH 16V 0.01U	1	
		C9018	F1G1C1030008	C.CAPACITOR CH 16V 0.01U	1	
		C9019	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	

Model No. : DMC-G5/G5K/G5X/G5W Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C9026	F1J1A106A024	C.CAPACITOR CH 10V 10U	1	
		C9027	F1H1A105A025	C.CAPACITOR CH 10V 1U	1	
		C9028	F1G1E102A086	C.CAPACITOR CH 25V 1000P	1	
		C9029	F1H1A4750004	C.CAPACITOR CH 10V 4.7U	1	
		C9030	F1H0J4750005	C.CAPACITOR CH 6.3V 4.7U	1	
		C9031	F1J1A106A024	C.CAPACITOR CH 10V 10U	1	
		C9032	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C9035	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C9036	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C9037	F1J0J2260004	C.CAPACITOR CH 6.3V 22U	1	
		C9038	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C9040	F1J1A106A024	C.CAPACITOR CH 10V 10U	1	
		C9041	F1J1A106A024	C.CAPACITOR CH 10V 10U	1	
		C9042	F1J1A106A024	C.CAPACITOR CH 10V 10U	1	
		C9043	F1J1A106A024	C.CAPACITOR CH 10V 10U	1	
		C9046	F1H1A225A051	C.CAPACITOR CH 10V 2.2U	1	
		C9048	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C9050	F1H0J2250008	C.CAPACITOR CH 6.3V 2.2U	1	
		C9051	F1H0J2250008	C.CAPACITOR CH 6.3V 2.2U	1	
		C9052	F1H0J2250008	C.CAPACITOR CH 6.3V 2.2U	1	
		C9053	F1H0J2250008	C.CAPACITOR CH 6.3V 2.2U	1	
		C9054	F1H1A105A025	C.CAPACITOR CH 10V 1U	1	
		C9056	F1G1H101A565	C.CAPACITOR CH 50V 100P	1	
		C9102	F1G1H101A565	C.CAPACITOR CH 50V 100P	1	
		C9103	F1H0J1060009	C.CAPACITOR CH 6.3V 10U	1	
		C9105	F1H0J1060009	C.CAPACITOR CH 6.3V 10U	1	
		C9107	F1H1A4750004	C.CAPACITOR CH 10V 4.7U	1	
		C9109	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C9110	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C9111	F1H1A4750004	C.CAPACITOR CH 10V 4.7U	1	
		C9113	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C9115	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C9116	F1G1H120A565	C.CAPACITOR CH 50V 12P	1	
		C9117	F1G1H120A565	C.CAPACITOR CH 50V 12P	1	
		C9118	F1H0J1060009	C.CAPACITOR CH 6.3V 10U	1	
		C9119	F1H0J1060009	C.CAPACITOR CH 6.3V 10U	1	
		C9120	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C9121	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C9122	F1G1A1040006	C.CAPACITOR CH 10V 0.1U	1	
		C9126	F1H0J1060009	C.CAPACITOR CH 6.3V 10U	1	
		C9127	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C9128	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C9129	F1H0J1060009	C.CAPACITOR CH 6.3V 10U	1	
		C9130	F1G1H272A571	C.CAPACITOR CH 50V 2700P	1	
		C9132	F1G1H272A571	C.CAPACITOR CH 50V 2700P	1	
		C9134	F1H0J1060009	C.CAPACITOR CH 6.3V 10U	1	
		C9135	F1G0J4740003	C.CAPACITOR CH 6.3V 0.47U	1	
		C9136	F1G0J4740003	C.CAPACITOR CH 6.3V 0.47U	1	
		C9137	F1H1A105A025	C.CAPACITOR CH 10V 1U	1	
		C9138	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C9139	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C9142	F1H1A105A025	C.CAPACITOR CH 10V 1U	1	
		C9144	F3E0J106A026	CAPACITY	1	
		C9145	F3E0J106A026	CAPACITY	1	
		C9201	F1J1A106A024	C.CAPACITOR CH 10V 10U	1	
		C9202	F1G1C1030008	C.CAPACITOR CH 16V 0.01U	1	
		C9206	F1H0J1060009	C.CAPACITOR CH 6.3V 10U	1	
		C9208	F1H1A105A025	C.CAPACITOR CH 10V 1U	1	
		C9209	F1H1A105A025	C.CAPACITOR CH 10V 1U	1	
		C9801	F1J1A106A024	C.CAPACITOR CH 10V 10U	1	
		C9901	F1H0J4750005	C.CAPACITOR CH 6.3V 4.7U	1	
		C9902	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	

Model No. : DMC-G5/G5K/G5X/G5W Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C9903	F1G1C1030008	C.CAPACITOR CH 16V 0.01U	1	
		CX6001	F1L1E103A065	C.CAPACITOR CH 25V 0.01U	1	
		CX6002	F1L1E103A065	C.CAPACITOR CH 25V 0.01U	1	
		CX6003	F1L1E103A065	C.CAPACITOR CH 25V 0.01U	1	
		CX9001	F5A84104A021	CAPACITOR NETWORKS	1	
		D1001	B0JCGD000016	DIODE	1	E.S.D.
		D1071	B0JDDD000007	DIODE	1	E.S.D.
		D1501	B0JCMD000066	DIODE	1	E.S.D.
		D1701	B0JCMD000066	DIODE	1	E.S.D.
		D2001	B0JCDD000019	DIODE	1	E.S.D.
		D7201	DB3S406F0L	DIODE	1	E.S.D.
		D7202	DB3S406F0L	DIODE	1	E.S.D.
		D7203	DB3S406F0L	DIODE	1	E.S.D.
		D7204	DB3S406F0L	DIODE	1	E.S.D.
		D7209	B0JCFC000004	DIODE	1	E.S.D.
		D7210	B0JCFC000004	DIODE	1	E.S.D.
		D7211	B0JCFC000004	DIODE	1	E.S.D.
		D7212	B0JCDD000003	DIODE	1	E.S.D.
		D8001	B0BC8R2A0266	DIODE	1	E.S.D.
		D8003	B2ABAP000006	DIODE	1	E.S.D.
		D8501	B0ECGP000006	DIODE	1	E.S.D.
		D8502	B0HCMP000006	DIODE	1	E.S.D.
		D8503	DA2JF8100L	DIODE	1	E.S.D.
		D9001	B0BD6R800011	DIODE	1	E.S.D.
		D9003	B0BD6R800011	DIODE	1	E.S.D.
		ET2001	K4ZZ01000208	EARTH TERMINAL	1	
		ET2002	K4ZZ01000208	EARTH TERMINAL	1	
		ET2004	K4AD01D00008	EARTH TERMINAL	1	
		F1002	ERBRE0R50V	FUSE 32V 0.5A	1	
		F2001	K5H1522A0018	FUSE 32V 1.5A	1	
		F8501	ERBRE2R50V	FUSE 32V 2.5A	1	
		F8502	K5H1522A0018	FUSE 32V 1.5A	1	
		F9001	K5H1512A0024	FUSE 50V 0.15A	1	
		FL2001	EXC28CH900U	FILTER	1	
		FL2002	EXC28CH900U	FILTER	1	
		FP4201	K1MY04BA0370	CONNECTOR 4P	1	
		FP4202	K1MN08BA0208	CONNECTOR 8P	1	
		FP7201	K1MY39BA0575	CONNECTOR 39P	1	
		FP7202	K1MN04BA0208	CONNECTOR 4P	1	
		FP7203	K1MY61BA0575	CONNECTOR 61P	1	
		FP8501	K1MN20BA0108	CONNECTOR 20P	1	
		FP9001	K1MY33BA0235	CONNECTOR 33P	1	
		FP9002	K1MY20BA0370	CONNECTOR 20P	1	
		FP9003	K1MN05BA0108	CONNECTOR 5P	1	
		FP9004	K1MY45BA0575	CONNECTOR 45P	1	
		FP9005	K1MN14BA0108	CONNECTOR 14P	1	
		FP9006	K1MY45BA0575	CONNECTOR 45P	1	
		FP9007	K1MY19BA0235	CONNECTOR 19P	1	
		FP9008	K1MY61BA0575	CONNECTOR 61P	1	
		FP9009	K1MY23BA0575	CONNECTOR 23P	1	
		FP9010	K1MY16BA0370	CONNECTOR 16P	1	
		FP9011	K1MY08BA0370	CONNECTOR 8P	1	
		IC1001	C1ZBZ0004634	IC	1	E.S.D.
		IC1051	C0DBGYY02024	IC	1	E.S.D.
		IC1061	C0DBGYY02122	IC	1	E.S.D.
		IC1071	C1ZBZ0004255	IC	1	E.S.D.
		IC2701	L2EZ00000004	IC	1	E.S.D.
		IC6001	VSG1013	IC	1	E.S.D. [SPC]
		IC7201	C1ZBZ0003885	IC	1	E.S.D. [SPC]
		IC9001	C0DBGYY02122	IC	1	E.S.D.
		IC9002	C0CBCYY00080	IC	1	E.S.D.
		IC9003	C0DBGYY02497	IC	1	E.S.D.

Model No. : DMC-G5/G5K/G5X/G5W Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		IC9004	C0DBGYY02527	IC	1	E.S.D.
		IC9005	C0CBCYY00086	IC	1	E.S.D.
		IC9101	C0BBAA00008	IC	1	E.S.D.
		IC9102	C1AB00003646	IC	1	E.S.D.
		IC9103	C0DBGYY02368	IC	1	E.S.D.
		IC9104	C0DBGYY02170	IC	1	E.S.D.
		IC9201	C0DBGYY00779	IC	1	E.S.D.
		IC9901	AN41400A-PB	IC	1	E.S.D.
		IC9999	RS10357	IC	1	E.S.D.
		JK2001	K2HD104D0002	JACK	1	
		JK2002	K1FB108E0008	JACK, AV/USB	1	
		JK2004	K1FA119E0022	JACK, HDMI	1	
		L1071	G1C4R7MA0584	CHIP INDUCTOR 4.7UH	1	
		L1101	G1C4R7MA0328	CHIP INDUCTOR 4.7UH	1	
		L1201	G1C150MA0584	CHIP INDUCTOR 15UH	1	
		L1301	G1C100MA0328	CHIP INDUCTOR 10UH	1	
		L1401	G1C150MA0584	CHIP INDUCTOR 15UH	1	
		L1501	G1C4R7MA0584	CHIP INDUCTOR 4.7UH	1	
		L1601	G1C4R7MA0502	CHIP INDUCTOR 4.7UH	1	
		L1701	G1C220MA0584	CHIP INDUCTOR 22UH	1	
		L2001	J0ZZB0000142	FILTER	1	
		L7201	G1C150MA0392	CHIP INDUCTOR 15UH	1	
		L9001	G1C100KA0124	CHIP INDUCTOR 10UH	1	
		L9003	G1C100KA0124	CHIP INDUCTOR 10UH	1	
		L9201	G1C1R0MA0172	CHIP INDUCTOR 1UH	1	
		LB8501	J0JGC0000038	FILTER	1	
		LB9001	J0JCC0000408	FILTER	1	
		LB9002	J0JCC0000408	FILTER	1	
		LB9003	J0JCC0000408	FILTER	1	
		LB9004	J0JCC0000408	FILTER	1	
		LB9005	J0JCC0000408	FILTER	1	
		LB9006	J0JCC0000408	FILTER	1	
		LB9007	J0JCC0000408	FILTER	1	
		LB9008	J0JCC0000408	FILTER	1	
		LB9009	J0JHC0000032	FILTER	1	
		LB9010	J0JHC0000032	FILTER	1	
		P8001	K4ZZ04000059	SHIELD FINGER	1	
		P9201	K1NA09E00153	SD CARD SLOT	1	
		Q4201	B1ABDF000017	TRANSISTOR	1	E.S.D.
		Q4202	B1ABDF000017	TRANSISTOR	1	E.S.D.
		Q7201	B1ABMD000012	TRANSISTOR	1	E.S.D.
		Q8001	FK3503010L	TRANSISTOR	1	E.S.D.
		Q8002	B1ABCF000103	TRANSISTOR	1	E.S.D.
		Q8501	B1JBLP000037	TRANSISTOR	1	E.S.D.
		Q8502	B1CFNG000008	TRANSISTOR	1	E.S.D.
		Q9001	B1HDCFA00004	TRANSISTOR	1	E.S.D.
		Q9002	B1HFCA000005	TRANSISTOR	1	E.S.D.
		Q9101	B1ABDF000017	TRANSISTOR	1	E.S.D.
		Q9201	B1CHMB000010	TRANSISTOR	1	E.S.D.
		Q9801	B1MBCGA00004	TRANSISTOR	1	E.S.D.
		Q9901	B1HBCFA000034	TRANSISTOR	1	E.S.D.
		QR1701	B1GKCFJN0008	TRANSISTOR-RESISTOR	1	E.S.D.
		QR2001	B1GBCFNL0020	TRANSISTOR-RESISTOR	1	E.S.D.
		QR8001	B1GFCFJJ0016	TRANSISTOR-RESISTOR	1	E.S.D.
		QR8501	B1GKCFJN0008	TRANSISTOR-RESISTOR	1	E.S.D.
		QR8502	B1GBCFGJ0021	TRANSISTOR-RESISTOR	1	E.S.D.
		QR9201	B1GBCFJJ0064	TRANSISTOR-RESISTOR	1	E.S.D.
		QR9202	B1GDCCFN0024	TRANSISTOR-RESISTOR	1	E.S.D.
		R1001	ERJ2RHD473X	M.RESISTOR CH 1/16W 47K	1	
		R1002	DOGA102JA023	RESISTOR	1	
		R1051	DOGA103JA023	RESISTOR	1	
		R1061	DOGA103JA023	RESISTOR	1	

Model No. : DMC-G5/G5K/G5X/G5W Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R1071	ERJ2RHD622X	M.RESISTOR CH 1/16W 6.2K	1	
		R1072	ERJ2RHD123X	M.RESISTOR CH 1/16W 12K	1	
		R1073	D0GA153JA023	RESISTOR	1	
		R1701	ERJ2RKD100X	M.RESISTOR CH 1/16W 10	1	
		R1702	ERJ2RHD153X	M.RESISTOR CH 1/16W 15K	1	
		R1703	ERJ2RHD104X	M.RESISTOR CH 1/16W 100K	1	
		R1704	ERJ2RHD243X	M.RESISTOR CH 1/16W 24K	1	
		R1705	D0GA222JA023	RESISTOR	1	
		R2001	D0GA273JA023	RESISTOR	1	
		R2002	D0GA202JA023	RESISTOR	1	
		R2003	D0GA202JA023	RESISTOR	1	
		R2004	D0GA750JA023	RESISTOR	1	
		R2005	D0GA561JA023	RESISTOR	1	
		R2006	D0GA102JA023	RESISTOR	1	
		R2008	D0GA682JA023	RESISTOR	1	
		R2009	D0GA102JA023	RESISTOR	1	
		R2011	D0GAR00J0005	RESISTOR	1	
		R2012	D0GAR00J0005	RESISTOR	1	
		R2013	D0GAR00J0005	RESISTOR	1	
		R2014	D0GAR00J0005	RESISTOR	1	
		R4201	ERA3YED392V	M.RESISTOR 1/16W 3.9K	1	
		R4202	ERA3YED392V	M.RESISTOR 1/16W 3.9K	1	
		R4203	D0GA102JA023	RESISTOR	1	
		R4204	ERA3YKD104V	M.RESISTOR 1/16W 100K	1	
		R4205	D0GA102JA023	RESISTOR	1	
		R4206	D0GA102JA023	RESISTOR	1	
		R4207	ERA3YKD104V	M.RESISTOR 1/16W 100K	1	
		R4208	D0GA102JA023	RESISTOR	1	
		R6001	ERJ2RHD511X	M.RESISTOR CH 1/16W 510	1	
		R6002	ERJ2RHD511X	M.RESISTOR CH 1/16W 510	1	
		R6003	ERJ2RHD511X	M.RESISTOR CH 1/16W 510	1	
		R6006	ERJ2RHD511X	M.RESISTOR CH 1/16W 510	1	
		R6007	ERJ2RHD511X	M.RESISTOR CH 1/16W 510	1	
		R6008	ERJ2RHD511X	M.RESISTOR CH 1/16W 510	1	
		R6009	ERJ2RHD511X	M.RESISTOR CH 1/16W 510	1	
		R6012	ERJ2RHD561X	M.RESISTOR CH 1/16W 560	1	
		R6013	ERJ2RHD222X	M.RESISTOR CH 1/16W 2.2K	1	
		R6014	ERJ2RHD122X	M.RESISTOR CH 1/16W 1.2K	1	
		R6015	ERJ2RKF1183X	M.RESISTOR CH 1/16W 118K	1	
		R6016	ERJ2RKF2800X	M.RESISTOR CH 1/16W 28	1	
		R6017	ERJ2RHD241X	M.RESISTOR CH 1/16W 240	1	
		R6018	D0GA102JA023	RESISTOR	1	
		R6022	D0GA103JA023	RESISTOR	1	
		R6023	ERJ2RKF6201X	M.RESISTOR CH 1/16W 6.2K	1	
		R6025	D0GA681JA023	RESISTOR	1	
		R6026	ERJ2GEJ102X	M.RESISTOR CH 1/16W 1K	1	
		R6027	D0GA105JA023	RESISTOR	1	
		R6031	D0GA473JA023	RESISTOR	1	
		R6032	ERJ2RHD103X	M.RESISTOR CH 1/16W 10K	1	
		R6034	D0GA101JA023	RESISTOR	1	
		R6035	ERJ2GEJ103X	M.RESISTOR CH 1/10W 10K	1	G5EG,G5EF,G5EB,G5KEG, G5KEC,G5KEF ,G5KEB,G5XEG, G5XEC,G5XEF,G5XEB,G5WEG, G5WEC,G5WEF,G5WEB
		R6036	ERJ2RKF1000X	M.RESISTOR CH 1/16W 1K	1	
		R6037	ERJ2RKF1000X	M.RESISTOR CH 1/16W 1K	1	
		R6038	ERJ2RKF1000X	M.RESISTOR CH 1/16W 1K	1	
		R6039	ERJ2RKF1000X	M.RESISTOR CH 1/16W 1K	1	
		R6040	ERJ2RKF1000X	M.RESISTOR CH 1/16W 1K	1	
		R6041	ERJ2RKF1000X	M.RESISTOR CH 1/16W 1K	1	
		R6042	ERJ2RKF1000X	M.RESISTOR CH 1/16W 1K	1	
		R6043	ERJ2RKF1000X	M.RESISTOR CH 1/16W 1K	1	
		R6044	ERJ2RKF1000X	M.RESISTOR CH 1/16W 1K	1	

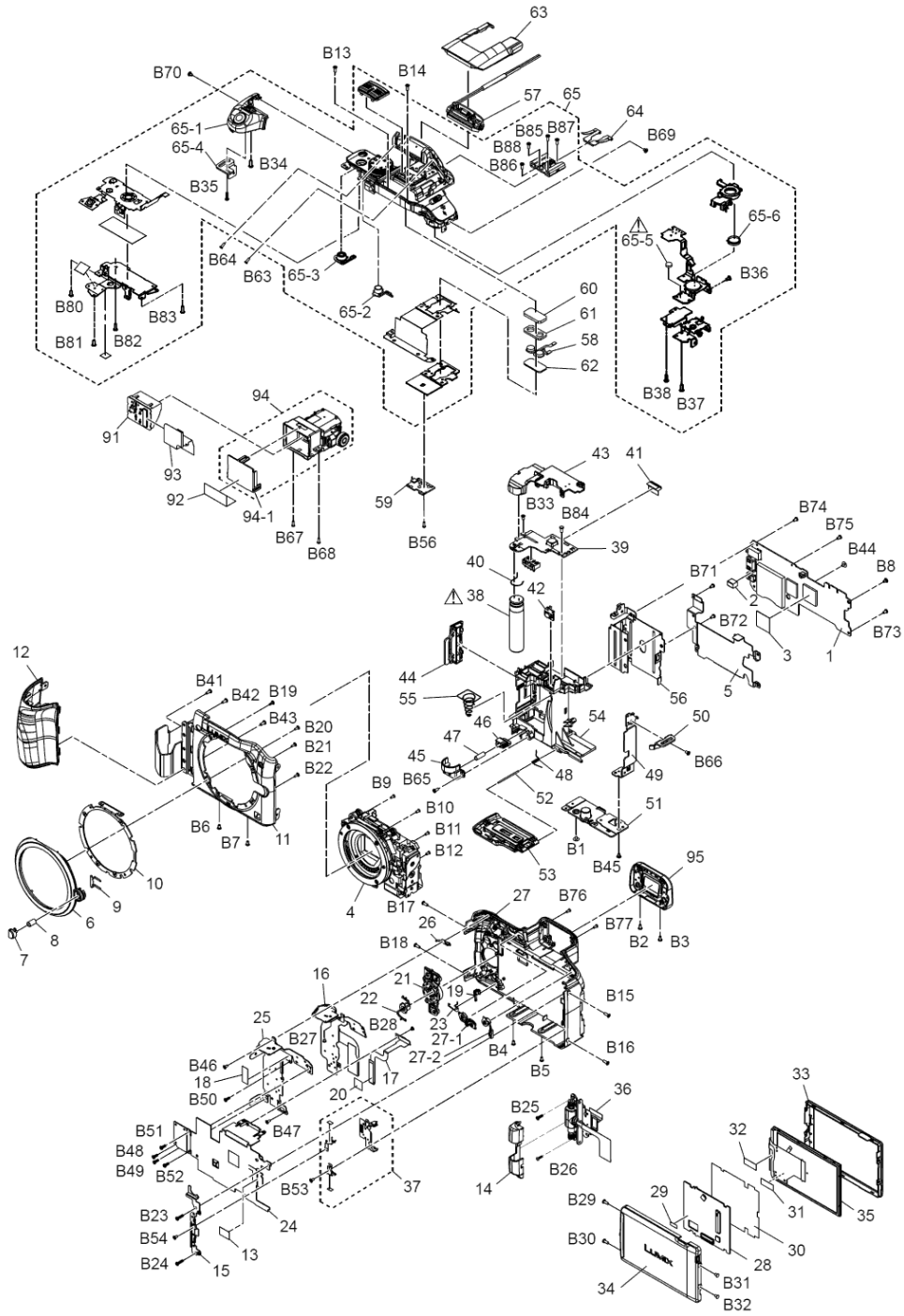
Model No. : DMC-G5/G5K/G5X/G5W Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R6045	ERJ2RKF1000X	M.RESISTOR CH 1/16W 1K	1	
		R6051	D0GA102JA023	RESISTOR	1	
		R6052	D0GAR00J0005	RESISTOR	1	
		R6053	D0GAR00J0005	RESISTOR	1	
		R6054	D0GAR00J0005	RESISTOR	1	
		R6057	D0GA752JA023	RESISTOR	1	
		R6058	D0GAR00J0005	RESISTOR	1	
		R6063	D0GA330JA023	RESISTOR	1	
		R6071	D0GA103JA023	RESISTOR	1	
		R6078	D0GA150JA023	RESISTOR	1	
		R6100	D0GAR00J0005	RESISTOR	1	G5EG,G5EF,G5EB,G5KEG, G5KEC,G5KEF,G5KEB,G5XEG, G5XEC,G5XEF,G5XEB,G5WEG, G5WEC,G5WEF,G5WEB
		R7203	ERJ2GE0R00X	M.RESISTOR CH 1/10W 0	1	
		R7205	ERJ2GEJ102X	M.RESISTOR CH 1/16W 1K	1	
		R8001	D0GA223JA023	RESISTOR	1	
		R8002	D0GA223JA023	RESISTOR	1	
		R8003	D0GA331JA023	RESISTOR	1	
		R8004	D0GA103JA023	RESISTOR	1	
		R8005	D0GA331JA023	RESISTOR	1	
		R8006	D0GA331JA023	RESISTOR	1	
		R8007	D0GA102JA023	RESISTOR	1	
		R8009	ERJ6GEYJ106V	M.RESISTOR CH 1/10W 10M	1	
		R8010	ERJ6GEYJ106V	M.RESISTOR CH 1/10W 10M	1	
		R8501	ERJ8GEYJ104V	M.RESISTOR CH 1/4W 100K	1	
		R8503	D0GA104JA023	RESISTOR	1	
		R8504	D0GB220JA065	RESISTOR	1	
		R8505	D0GB101JA065	RESISTOR	1	
		R8506	ERJ6RED914V	CHIP RESISTOR	1	
		R8507	ERJ6RED914V	CHIP RESISTOR	1	
		R8508	ERJ2RKD304X	M.RESISTOR CH 1/16W 300K	1	
		R8509	ERJ2RHD163X	M.RESISTOR CH 1/16W 16K	1	
		R8510	D0GA102JA023	RESISTOR	1	
		R8511	D0GA153JA023	RESISTOR	1	
		R8512	ERJ8GEYJ105V	M.RESISTOR CH 1/4W 1M	1	
		R8513	D0GA220JA023	RESISTOR	1	
		R8514	ERJ8GEYJ472V	M.RESISTOR CH 1/4W 4.7K	1	
		R9006	D0GA104JA023	RESISTOR	1	
		R9007	D0GA104JA023	RESISTOR	1	
		R9008	D0GA104JA023	RESISTOR	1	
		R9013	D0GA101JA023	RESISTOR	1	
		R9017	D0GB8R2JA065	RESISTOR	1	
		R9019	D0GB8R2JA065	RESISTOR	1	
		R9020	ERJ2RHD622X	M.RESISTOR CH 1/16W 6.2K	1	
		R9021	ERJ2RKF1541X	CHIP RESISTOR	1	
		R9022	D0GA332JA023	RESISTOR	1	
		R9023	D0GA393JA023	RESISTOR	1	
		R9024	D0GA393JA023	RESISTOR	1	
		R9026	D0GAR00J0005	RESISTOR	1	
		R9031	D0GAR00J0005	RESISTOR	1	G5PP,G5PC,G5GC,G5GH, G5GT,G5GN,G5KPP,G5KPC, G5KEE,G5KGC,G5KGK,G5KGN,G5KGD,G5XPP,G5XPC,G5XEE, G5XGC,G5XGH,G5XGT,G5XGK, G5XGN,G5WGC,G5WGH,G5WGT, G5WGK,G5WGN
		R9032	D0GAR00J0005	RESISTOR	1	G5EG,G5EF,G5EB,G5KEG, G5KEC,G5KEF,G5KEB,G5XEG, G5XEC,G5XEF,G5XEB,G5WEG, G5WEC,G5WEF,G5WEB
		R9051	D0GAR00J0005	RESISTOR	1	
		R9054	D0GA512JA023	RESISTOR	1	
		R9056	ERJ6GEYJ6R8V	M.RESISTOR CH 1/10W 6.8	1	
		R9062	D0GA820JA023	RESISTOR	1	
		R9063	D0GA560JA023	RESISTOR	1	

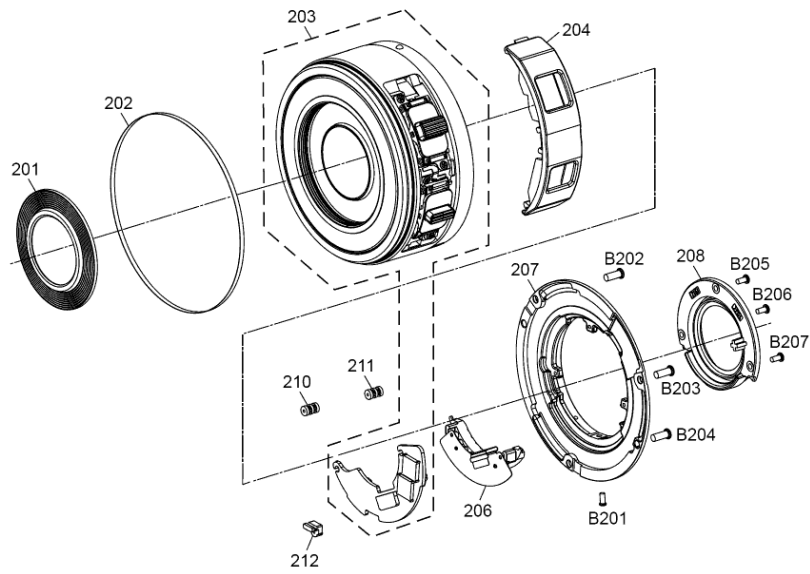
Model No. : DMC-G5/G5K/G5X/G5W Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R9103	ERJ2RKD684X	M.RESISTOR CH 1/16W 680K	1	
		R9104	ERJ2RKD394X	M.RESISTOR CH 1/16W 390K	1	
		R9106	D0GA102JA023	RESISTOR	1	
		R9111	ERJ2RHD333X	M.RESISTOR CH 1/16W 33K	1	
		R9112	ERJ2RKD114X	M.RESISTOR CH 1/16W 110K	1	
		R9114	D0GA332JA023	RESISTOR	1	
		R9115	D0GA101JA023	RESISTOR	1	
		R9117	D0GA151JA023	RESISTOR	1	
		R9118	D0GA331JA023	RESISTOR	1	
		R9119	D0GA431JA023	RESISTOR	1	
		R9124	ERJ2RKD684X	M.RESISTOR CH 1/16W 680K	1	
		R9125	ERJ2RKD304X	M.RESISTOR CH 1/16W 300K	1	
		R9129	D0GA203JA023	RESISTOR	1	
		R9130	ERJ2RKD105X	M.RESISTOR CH 1/16W 1M	1	
		R9131	ERJ2RKD244X	M.RESISTOR CH 1/16W 240K	1	
		R9132	D0GA472JA023	RESISTOR	1	
		R9133	D0GA472JA023	RESISTOR	1	
		R9134	D0GA272JA023	RESISTOR	1	
		R9136	D0GA272JA023	RESISTOR	1	
		R9137	D0GA152JA023	RESISTOR	1	
		R9138	D0GA152JA023	RESISTOR	1	
		R9139	D0GA102JA023	RESISTOR	1	
		R9141	D0GA223JA023	RESISTOR	1	
		R9142	D0GA333JA023	RESISTOR	1	
		R9143	D0GA103JA023	RESISTOR	1	
		R9146	D0GA470JA023	RESISTOR	1	
		R9201	D0GA104JA023	RESISTOR	1	
		R9202	D0GA103JA023	RESISTOR	1	
		R9204	ERJ2GEJ103X	M.RESISTOR CH 1/10W 10K	1	
		RX6001	D1H81034A042	RESISTOR	1	
		RX6002	EXB28V330JX	RESISTOR	1	
		RX6003	D1H81034A042	RESISTOR	1	
		RX9001	EXB28V101JX	RESISTOR	1	
		RX9002	EXB28V101JX	RESISTOR	1	
		RX9007	EXBN8V680JX	RESISTOR	1	
		RX9008	EXBN8V680JX	RESISTOR	1	
		RX9009	EXBN8V680JX	RESISTOR	1	
		RX9010	EXBN8V680JX	RESISTOR	1	
		RX9011	EXB28V102JX	RESISTOR	1	
		RX9012	D1H81034A042	RESISTOR	1	
		RX9013	EXB28V392JX	RESISTOR	1	
		RX9014	D1H81034A042	RESISTOR	1	
		RX9015	EXB28V392JX	RESISTOR	1	
		RX9016	EXB28V182JX	RESISTOR	1	
		RX9201	D1H81034A042	RESISTOR	1	
		RX9801	EXB28V102JX	RESISTOR	1	
		RX9901	EXB28V821JX	RESISTOR	1	
		S4201	K0L1BA000159	SWITCH	1	
		T8501	G5D1A0000074	TRANSFORMER	1	
		T9801	G5DYZ0000028	TRANSFORMER	1	
		VA2005	D4ED18R00008	VARISTOR	1	
		VA9001	D4ED18R0A014	VARISTOR	1	
		VA9002	D4ED18R0A014	VARISTOR	1	
		VA9008	D4ED18R0A014	VARISTOR	1	
		VA9010	D4ED18R00003	VARISTOR	1	
		VA9011	D4ED18R00003	VARISTOR	1	
		X6001	H0J240500053	CRYSTAL OSCILLATOR	1	
		X9001	H1A2705B0049	CRYSTAL OSCILLATOR	1	
		X9101	H0J327200085	CRYSTAL OSCILLATOR	1	

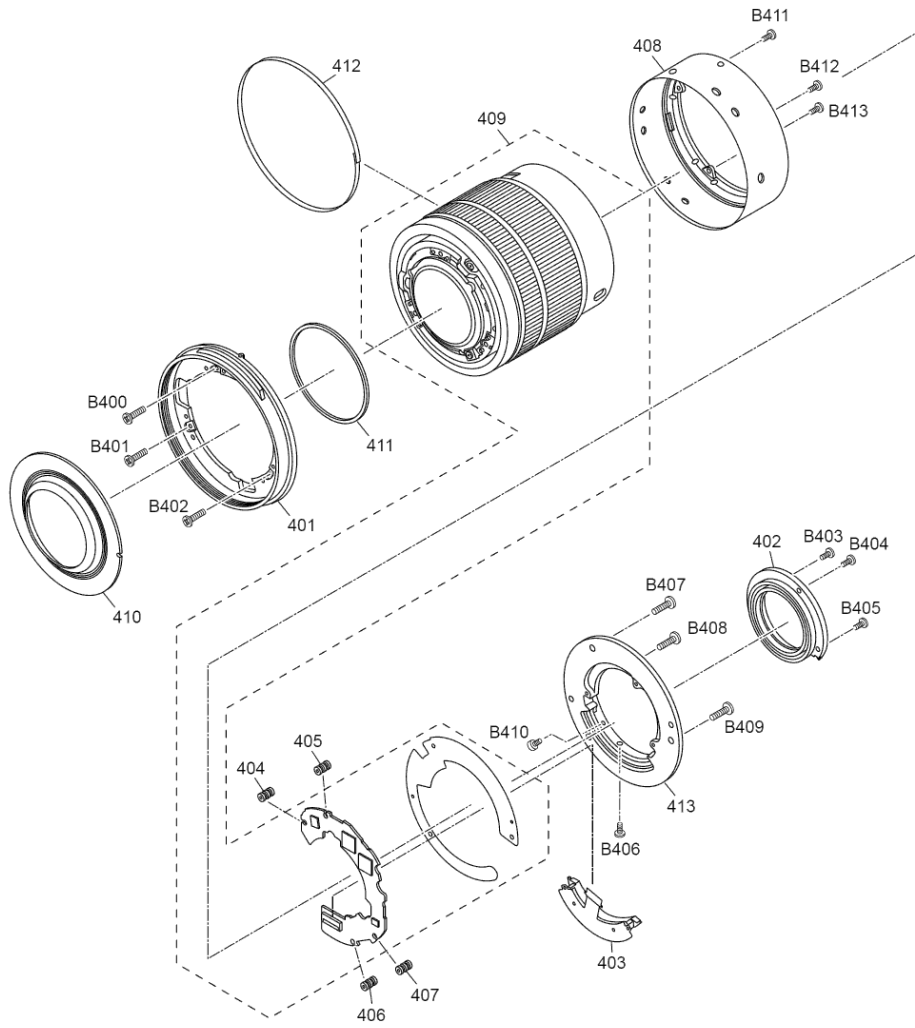
Model No. : DMC-G5/G5K/G5X/G5W Frame and Casing Section



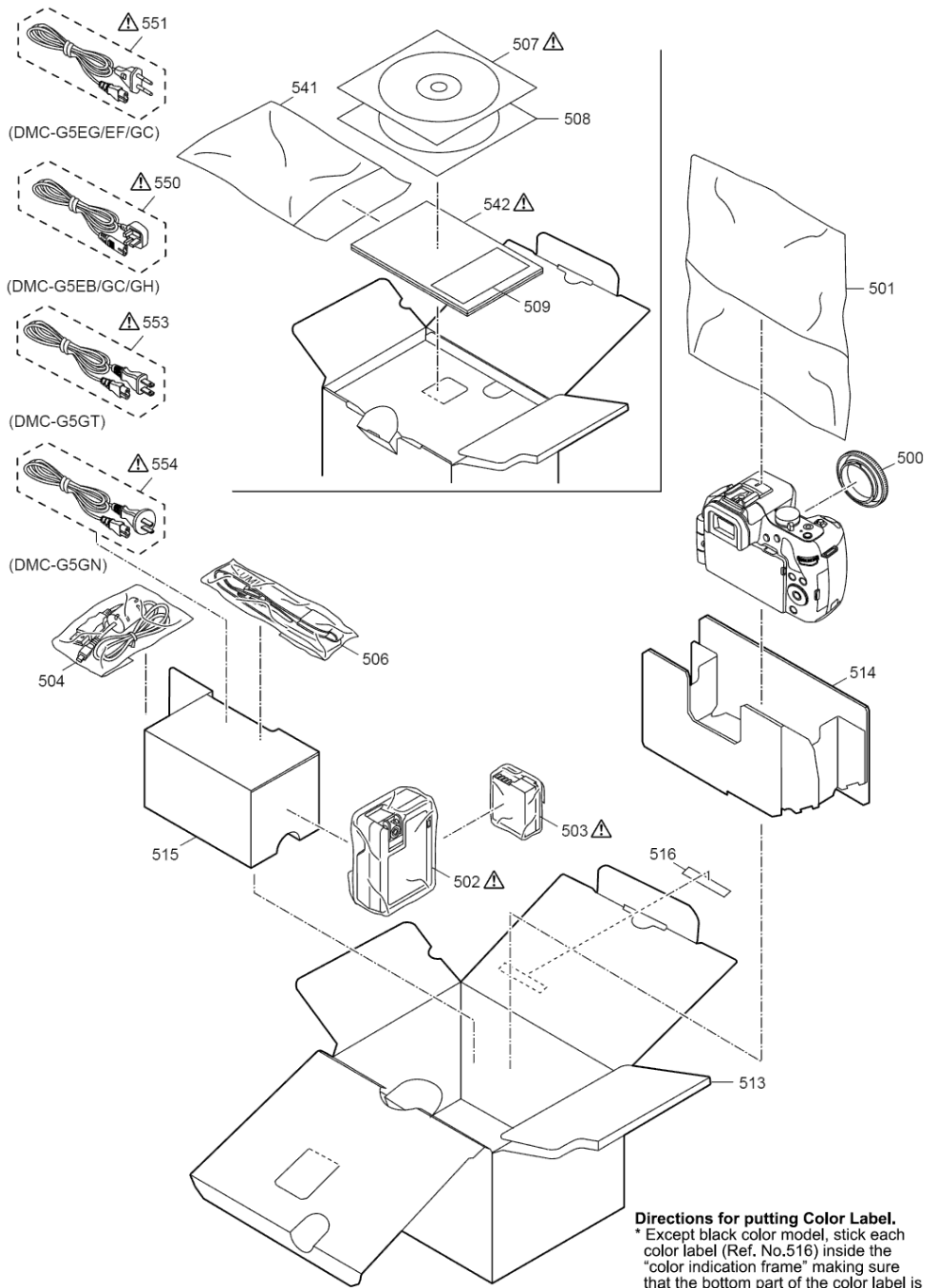
Model No. : DMC-G5/G5K/G5X/G5W Camera Lens section (1)



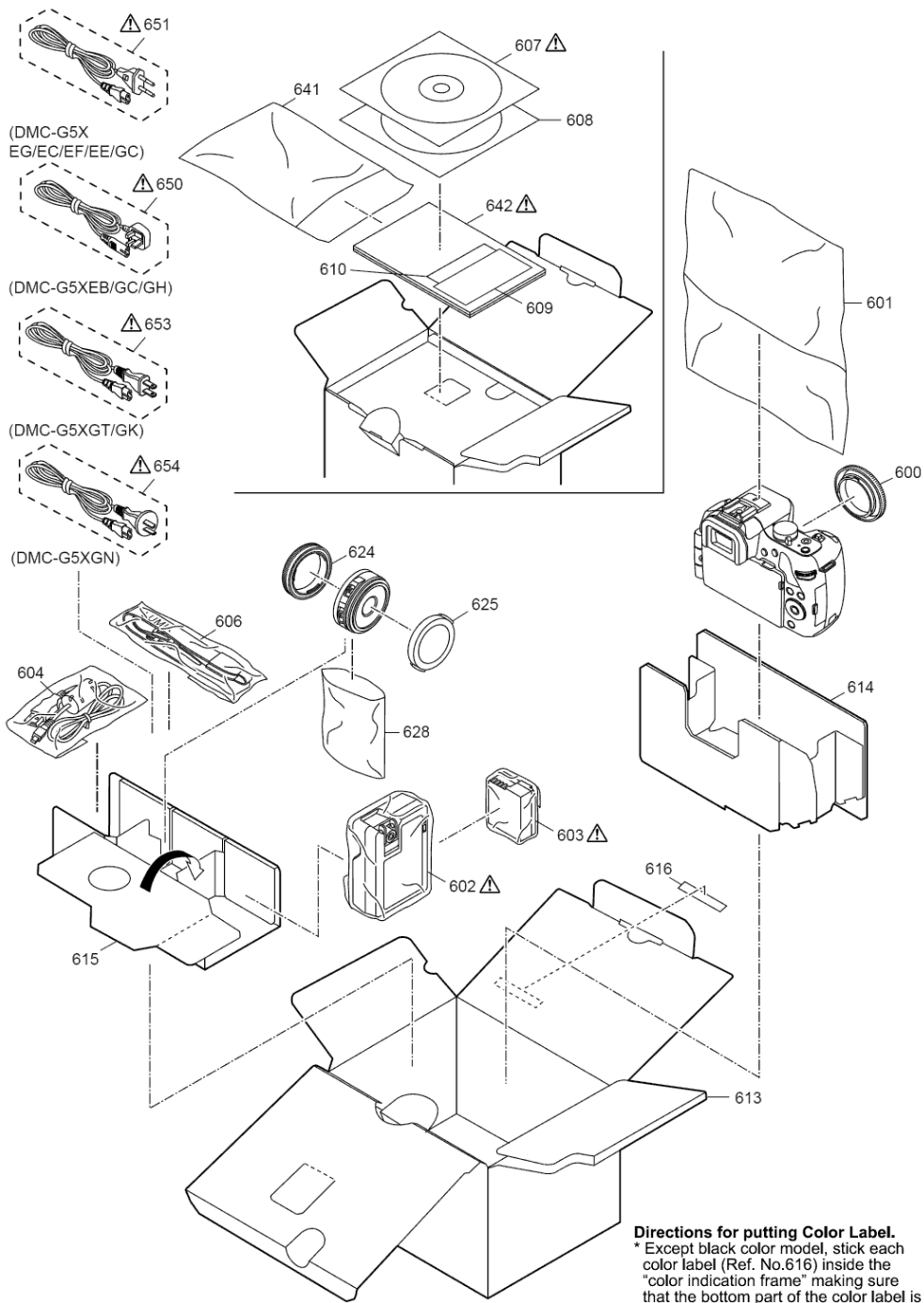
Model No. : DMC-G5/G5K/G5X/G5W Camera Lens section (3)



Model No. : DMC-G5/G5K/G5X/G5W Packing Parts and Accessories Section (1)

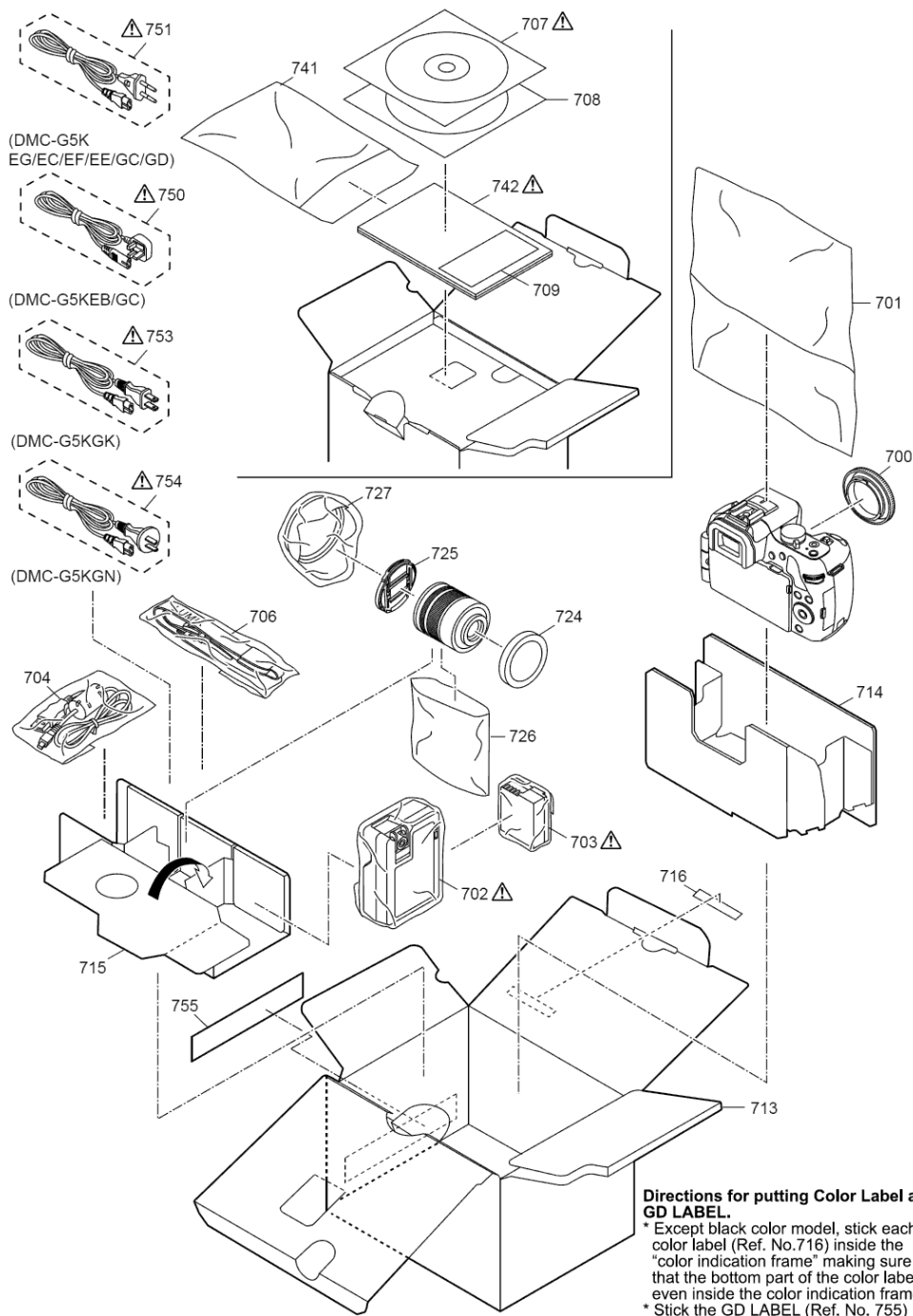


Model No. : DMC-G5/G5K/G5X/G5W Packing Parts and Accessories Section (2)



Directions for putting Color Label.
 * Except black color model, stick each color label (Ref. No.616) inside the "color indication frame" making sure that the bottom part of the color label is even inside the color indication frame.

Model No. : DMC-G5/G5K/G5X/G5W Packing Parts and Accessories Section (3)



Model No. : DMC-G5/G5K/G5X/G5W Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		1	VEP56168B	MAIN P.C.B.	1	(RTL) E.S.D. G5EG,G5EF, G5EB,G5KE G,G5KEC,G5KEF, G5KEB,G5XEG,G5XEC, G5XEF, G5XEB,G5WEG,G5WEC,G5WEF, G5WEB
		1	VEP56168A	MAIN P.C.B.	1	(RTL) E.S.D. G5PP,G5PC, G5GC,G5GH ,G5GT,G5GN, G5KPP,G5KPC,G5KEE,G5K GC, G5KGK,G5KGN,G5KGD,G5XPP, G5 XPC,G5XEE,G5XGC,G5XGH, G5XGT,G5XG K,G5XGN,G5WGC, G5WGH,G5WGT,G5W GK, G5WGN
		2	VGQ1G90	GASKET	1	
		3	VGQ1H21	SHEET	1	
		4	VXQ2276	MOUNT BOX UNIT	1	
		5	VSC6427	MAIN HEAT SINK	1	
		6	VGK3949	FRONT RING	1	(-K)
		6	VGK3950	FRONT RING	1	(-S,-W)
		7	VGU0J48	LENS RELEASE BUTTON	1	(-K)
		7	VGU0K13	LENS RELEASE BUTTON	1	(-S,-W)
		8	VMB4504	LENS RELEASE BUTTON SPRING	1	
		9	VMP9970	LENS RELEASE FIX PLATE	1	
		10	VMP9995	MOUNT RING PLATE	1	
		11	VYK5X47	FRONT CASE UNIT	1	(-K)
		11	VYK5X48	FRONT CASE UNIT	1	(-S)
		11	VYK5X49	FRONT CASE UNIT	1	(-W)
		12	VYQ7936	GRIP FRONT UNIT	1	(-K)
		12	VYQ7937	GRIP FRONT UNIT	1	(-S)
		12	VYQ7938	GRIP FRONT UNIT	1	(-W)
		13	VGQ0T64-A	BATTERY FPC SHEET	1	
		14	VKM0C03	HINGE ARM COVER	1	(-K)
		14	VKM0C04	HINGE ARM COVER	1	(-S)
		14	VKM0C05	HINGE ARM COVER	1	(-W)
		15	VMP0D20	HINGE PLATE	1	
		16	K0RE01300019	REAR OPERATION UNIT	1	
		17	VEP52084A	EYE FPC UNIT	1	
		18	VGQ0Y62	FPC PROTECTION SHEET	1	
		19	VGQ1E23	LCD LOCK PIECE	1	
		20	VGQ1H22	EYE FPC BUSTERAID SHEET	1	
		21	VGU0M17	REAR OPERATION BUTTON	1	
		22	VGU0M18	MENU BUTTON	1	
		23	VMB4206	LCD LOCK SPRING	1	
		24	VMP0D21	REAR EARTH PLATE	1	
		25	VMP0D22	REAR OPERATION PLATE	1	
		26	VMP0D39	DIAL EARTH PLATE	1	
		27	VYK5X56	REAR CASE UNIT	1	(-K)
		27	VYK5X57	REAR CASE UNIT	1	(-S)
		27	VYK5X58	REAR CASE UNIT	1	(-W)
		27-1	VGU0M15	PLAY BUTTON	1	(-K)
		27-1	VGU0M16	PLAY BUTTON	1	(-S,-W)
		27-2	VGU0M27	LVF/LCD BUTTON	1	(-K)
		27-2	VGU0M28	LVF/LCD BUTTON	1	(-S,-W)
		28	VEP59117A	LCD IF P.C.B.	1	(RTL) E.S.D.
		29	VGQ0Y08	LCD PCB SHEET	1	
		30	VGQ1E26	LCD BL BEZEL SHEET	1	
		31	VGQ1H78	FPC SHEET	1	
		32	VGQ1H78	FPC SHEET	1	
		33	VKM0B94	LCD CASE TOP	1	(-K)
		33	VKM0B95	LCD CASE TOP	1	(-S)
		33	VKM0B96	LCD CASE TOP	1	(-W)
		34	VKM0B97	LCD CASE BOTTOM	1	(-K)
		34	VKM0B98	LCD CASE BOTTOM	1	(-S)
		34	VKM0B99	LCD CASE BOTTOM	1	(-W)
		35	VYK5X65	LCD UNIT	1	

Model No. : DMC-G5/G5K/G5X/G5W Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		36	VYK5X66	LCD HINGE UNIT	1	(-K)
		36	VYK5X67	LCD HINGE UNIT	1	(-S)
		36	VYK5X68	LCD HINGE UNIT	1	(-W)
		37	VYQ7939	HINGE SW FPC UNIT	1	
	⚠	38	F2A2F1710001	E.CAPACITOR	1	(C8510)
		39	VEP58182A	FLASH P.C.B.	1	(RTL) E.S.D.
		40	VMB4508	CAPACITOR EARTH SPRING	1	
		41	VWJ2356	FLASH FPC	1	
		42	VGL1437	AF PANEL LIGHT	1	
		43	VGQ1E18	BATTERY CAPACITOR COVER	1	
		44	VKF5080	JACK DOOR	1	(-K)
		44	VKF5081	JACK DOOR	1	(-S)
		44	VKF5082	JACK DOOR	1	(-W)
		45	VGQ1E17	CAPACITOR HOLDER	1	
		46	VGUOM45	BATTERY LOCK KNOB	1	
		47	VMB4199	BATTERY LOCK SPRING	1	
		48	VMB4616	BATTERY DOOR SPRING	1	
		49	VMP0D28	SIDE FRAME (R)	1	
		50	VMP0D29	STRAP HOLDER (R)	1	
		51	VMP9957	TRIPOD	1	
		52	VMS8177	BATTERY DOOR SHAFT	1	
		53	VYF3490	BATTERY DOOR UNIT	1	(-K)
		53	VYF3491	BATTERY DOOR UNIT	1	(-S)
		53	VYF3492	BATTERY DOOR UNIT	1	(-W)
		54	VKM0B90	BATTERY FRAME	1	
		55	VMB4409	BATTERY OUT SPRING	1	
		56	VMP0D17	BATTERY CASE	1	
		57	VEK0T11	FLASH UNIT	1	
		58	VEK0T28	MICROPHONE UNIT	1	
		59	VEP54031A	MIC P.C.B.	1	(RTL) E.S.D.
		60	VGQ1E29	MIC CUSHION (A)	1	
		61	VGQ1E30	MIC CUSHION (B)	1	
		62	VGQ1E31	MIC CUSHION (C)	1	
		63	VKM0C09	FLASH CASE TOP	1	(-K)
		63	VKM0C10	FLASH CASE TOP	1	(-S)
		63	VKM0C11	FLASH CASE TOP	1	(-W)
		64	VMC2111	SHOE SPRING	1	
		65	VYK5X78	TOP UNIT	1	(-K)
		65	VYK5X79	TOP UNIT	1	(-S)
		65	VYK5X80	TOP UNIT	1	(-W)
		65-1	VYQ7940	GRIP TOP UNIT	1	(-K)
		65-1	VYQ7941	GRIP TOP UNIT	1	(-S)
		65-1	VYQ7942	GRIP TOP UNIT	1	(-W)
		65-2	VYK5W43	IA BUTTON UNIT	1	
		65-3	VGUOM25	REC BUTTON	1	
		65-4	VMP0D23	STRAP HOLDER (L)	1	
	⚠	65-5	ML-421S/DN	BUTTON BATTERY	1	(B7951), [ENERGY]
		65-6	L0AA01A00130	SPEAKER	1	
		91	L5EDDY00255	LVF MODULE	1	
		92	VGQ0W20	LVF FPC FIX TAPE	1	
		93	VYQ7944	LVF FPC UNIT	1	
		94	VYQ7945	LVF UNIT	1	
		94-1	VKM9429	LVF COVER	1	
		95	VYQ7935	EYE CUP UNIT	1	
		B1	VHD1996	SCREW	1	
		B2	VHD2149	SCREW	1	
		B3	VHD2149	SCREW	1	
		B4	VHD2149	SCREW	1	(-K)
		B4	VHD2019	SCREW	1	(-S, -W)
		B5	VHD2149	SCREW	1	(-K)
		B5	VHD2019	SCREW	1	(-S, -W)
		B6	VHD2149	SCREW	1	(-K)

Model No. : DMC-G5/G5K/G5X/G5W Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		B6	VHD2019	SCREW	1	(-S, -W)
		B7	VHD2149	SCREW	1	(-K)
		B7	VHD2019	SCREW	1	(-S, -W)
		B8	VHD2286-A	SCREW	1	
		B9	VHD2331-A	SCREW	1	
		B10	VHD2331-A	SCREW	1	
		B11	VHD2331-A	SCREW	1	
		B12	VHD2331-A	SCREW	1	
		B13	VHD2337	SCREW	1	(-K)
		B13	VHD2338	SCREW	1	(-S, -W)
		B14	VHD2337	SCREW	1	(-K)
		B14	VHD2338	SCREW	1	(-S, -W)
		B15	VHD2337	SCREW	1	(-K)
		B15	VHD2338	SCREW	1	(-S, -W)
		B16	VHD2337	SCREW	1	(-K)
		B16	VHD2338	SCREW	1	(-S, -W)
		B17	VHD2337	SCREW	1	(-K)
		B17	VHD2338	SCREW	1	(-S, -W)
		B18	VHD2337	SCREW	1	(-K)
		B18	VHD2338	SCREW	1	(-S, -W)
		B19	VHD2332	SCREW	1	
		B20	VHD2332	SCREW	1	
		B21	VHD2332	SCREW	1	
		B22	VHD2332	SCREW	1	
		B23	VHD2091	SCREW	1	
		B24	VHD2091	SCREW	1	
		B25	VHD2251-B	SCREW	1	
		B26	VHD2251-B	SCREW	1	
		B27	VHD2284	SCREW	1	
		B28	VHD2284	SCREW	1	
		B29	VHD2179	SCREW	1	(-K)
		B29	VHD2200	SCREW	1	(-S, -W)
		B30	VHD2179	SCREW	1	(-K)
		B30	VHD2200	SCREW	1	(-S, -W)
		B31	VHD2333	SCREW	1	(-K)
		B31	VHD2102	SCREW	1	(-S, -W)
		B32	VHD2333	SCREW	1	(-K)
		B32	VHD2102	SCREW	1	(-S, -W)
		B33	VHD2019	SCREW	1	
		B34	XQN14+BJ4FJK	SCREW	1	
		B35	VHD2091	SCREW	1	
		B36	XQN16+B2FJ	SCREW	1	
		B37	XQN14+BJ4FJK	SCREW	1	
		B38	XQN14+BJ4FJK	SCREW	1	
		B41	XQN16+BJ4FN	SCREW	1	
		B42	XQN16+BJ4FN	SCREW	1	
		B43	XQN16+BJ4FN	SCREW	1	
		B44	VHD1996	SCREW	1	
		B45	VHD2286-A	SCREW	1	
		B46	VHD1909	SCREW	1	
		B47	VHD1909	SCREW	1	
		B48	XQN16+BJ4FN	SCREW	1	
		B49	XQN16+BJ4FN	SCREW	1	
		B50	XQN16+BJ4FN	SCREW	1	
		B51	XQN16+BJ4FN	SCREW	1	
		B52	XQN16+BJ4FN	SCREW	1	
		B53	VHD1909	SCREW	1	
		B54	VHD1909	SCREW	1	
		B56	XQN14+BJ4FJK	SCREW	1	
		B63	XQN14+BJ4FJK	SCREW	1	
		B64	XQN14+BJ4FJK	SCREW	1	
		B65	XQN16+BJ4FN	SCREW	1	

Model No. : DMC-G5/G5K/G5X/G5W Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		B66	VHD2019	SCREW	1	
		B67	XQN14+BJ4FJK	SCREW	1	
		B68	XQN14+BJ4FJK	SCREW	1	
		B69	VHD2286-A	SCREW	1	
		B70	VHD2286-A	SCREW	1	
		B71	XQN16+B3FJ	SCREW	1	
		B72	XQN16+B3FJ	SCREW	1	
		B73	XQN16+B3FJ	SCREW	1	
		B74	XQN16+B3FJ	SCREW	1	
		B75	XQN16+B3FJ	SCREW	1	
		B76	XQN16+BJ4FN	SCREW	1	
		B77	XQN16+BJ4FN	SCREW	1	
		B80	XQN14+BJ4FJK	SCREW	1	
		B81	XQN14+BJ4FJK	SCREW	1	
		B82	XQN14+BJ4FJK	SCREW	1	
		B83	XQN14+BJ4FJK	SCREW	1	
		B84	XQN16+BJ4FN	SCREW	1	
		B85	VHD2200	SCREW	1	
		B86	VHD2200	SCREW	1	
		B87	VHD2200	SCREW	1	
		B88	VHD2200	SCREW	1	
		201	VGH5246	DECORATION RING	1 (G5X) [SPC]	
		202	VGQ0X41	SILVER RING TAPE	1 (G5X) [SPC]	
		203	----	LENS MAIN BLOCK UNIT	1 (G5X)(NOT SUPPLIED) [SPC]	
		204	VGQ0X42	LEVER COVER	1 (G5X) [SPC]	
		206	VEJ2327	MOUNT CONTACT UNIT	1 (G5X) [SPC]	
		207	VXQ2135	L MOUNT UNIT	1 (G5X) [SPC]	
		208	VDW2321	SHADING FRAME	1 (G5X) [SPC]	
		210	VMG2007	FLOATING RUBBER	1 (G5X) [SPC]	
		211	VMG2007	FLOATING RUBBER	1 (G5X) [SPC]	
		212	VMT2208	PCB CUSHION	1 (G5X) [SPC]	
		B201	VHD2298	SCREW	1 (G5X) [SPC]	
		B202	VHD2299	SCREW	1 (G5X) [SPC]	
		B203	VHD2299	SCREW	1 (G5X) [SPC]	
		B204	VHD2299	SCREW	1 (G5X) [SPC]	
		B205	VHD2246	SCREW	1 (G5X) [SPC]	
		B206	VHD2246	SCREW	1 (G5X) [SPC]	
		B207	VHD2246	SCREW	1 (G5X) [SPC]	
		302	VDW2023	SHADING FRAME	1 (G5K,G5W) [SPC]	
		303	VEJ2295	MOUNT CONTACT UNIT	1 (G5K,G5W) [SPC]	
		304	VGH5186	DECORATION RING	1 (G5K,G5W) [SPC]	
		306	VDW2024	L MOUNT UNIT	1 (G5K,G5W) [SPC]	
		307	---	REAR FRAME UNIT	1 (G5K,G5W)(NOT SUPPLIED) [SPC]	
		308	---	LENS MAIN BLOCK UNIT	1 (G5K,G5W)(NOT SUPPLIED) [SPC]	
		309	VMG1855	FLOATING RUBBER	1 (G5K,G5W) [SPC]	
		310	VMG1855	FLOATING RUBBER	1 (G5K,G5W) [SPC]	
		311	VMG1855	FLOATING RUBBER	1 (G5K,G5W) [SPC]	
		312	VMG1847	DUST PROOF RING	1 (G5K,G5W) [SPC]	
		313	VGQ0Y87	SILVER RING TAPE 1	1 (G5K,G5W) [SPC]	
		B301	XQN14+BJ4FNK	SCREW	1 (G5K,G5W) [SPC]	
		B302	XQN14+BJ4FNK	SCREW	1 (G5K,G5W) [SPC]	
		B303	XQN14+BJ4FNK	SCREW	1 (G5K,G5W) [SPC]	
		B304	XQN14+BJ4FNK	SCREW	1 (G5K,G5W) [SPC]	
		B305	XQN14+BJ4FNK	SCREW	1 (G5K,G5W) [SPC]	
		B306	XQN14+BJ4FNK	SCREW	1 (G5K,G5W) [SPC]	
		B307	XQN14+BJ4FNK	SCREW	1 (G5K,G5W) [SPC]	
		B308	XQN2+AJ5FNK	SCREW	1 (G5K,G5W) [SPC]	
		B309	XQN2+AJ5FNK	SCREW	1 (G5K,G5W) [SPC]	
		B310	XQN2+AJ5FNK	SCREW	1 (G5K,G5W) [SPC]	
		B311	XQN2+AJ5FNK	SCREW	1 (G5K,G5W) [SPC]	
		B313	XQN14+AJ3FNK	SCREW	1 (G5K,G5W) [SPC]	
		B320	XQN16+BJ5FNK	SCREW	1 (G5K,G5W) [SPC]	

Model No. : DMC-G5/G5K/G5X/G5W Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		B321	XQN16+BJ5FNK	SCREW	1	(G5K,G5W) [SPC]
		B322	XQN16+BJ5FNK	SCREW	1	(G5K,G5W) [SPC]
		401	VDW2510	FILTER RING	1	(G5W)
		402	VDW2511	SHADING FRAME	1	(G5W)
		403	VEJ2333	LENS MOUNT CONTACT UNIT	1	(G5W)
		404	VMG1855	FLOATING RUBBER	1	(G5W)
		405	VMG1855	FLOATING RUBBER	1	(G5W)
		406	VMG1855	FLOATING RUBBER	1	(G5W)
		407	VMG1855	FLOATING RUBBER	1	(G5W)
		408	-----	REAR FRAME UNIT	1	(G5W) (NOT SUPPLIED)
		409	-----	LENS MAIN BLOCK UNIT	1	(G5W) (NOT SUPPLIED)
		410	VGH5307	DECORATION RING	1	(G5W)
		411	VMF0608	DUST PROOF RING	1	(G5W)
		412	VGQ1E57	SILVER RING	1	G5WEG-K, G5WEC-K, G5WEF-K, G5WEB-K, G5WGC-K, G5WGH-K, G5WGT-K, G5WKG-K, G5WGN-K
		412	VGQ1G91	SILVER RING	1	G5WGC-S, G5WGC-W, G5WGH-S, G5WGH-W, G5WGT-S, G5WGT-W, G5WKG-S, G5WKG-W, G5WGN-S, G5WGN-W
		413	VXQ2283	L MOUNT UNIT	1	(G5W)
		B400	VHD2096	SCREW	1	(G5W)
		B401	VHD2096	SCREW	1	(G5W)
		B402	VHD2096	SCREW	1	(G5W)
		B403	VHD2246	SCREW	1	(G5W)
		B404	VHD2246	SCREW	1	(G5W)
		B405	VHD2246	SCREW	1	(G5W)
		B406	VHD2298	SCREW	1	(G5W)
		B407	VHD2299	SCREW	1	(G5W)
		B408	VHD2299	SCREW	1	(G5W)
		B409	VHD2299	SCREW	1	(G5W)
		B410	VHD1868	SCREW	1	(G5W)
		B411	VHD2296	SCREW	1	(G5W)
		B412	VHD2296	SCREW	1	(G5W)
		B413	VHD2296	SCREW	1	(G5W)
		500	VKF4971	BODY CAP	1	(G5)
		501	VPF1316A	CAMERA BAG	1	(G5)
	⚠	502	DE-A80AC/SX	BATTERY CHARGER	1	G5EG, G5EF, G5EB, G5GN
	⚠	502	DE-A79BB/SX	BATTERY CHARGER	1	G5PP, G5PC
	⚠	502	DE-A80BD/SX	BATTERY CHARGER	1	G5GC, G5GH
	⚠	502	DE-A80CB/SX	BATTERY CHARGER	1	G5GT
	⚠	503	-----	BATTERY PACK	1	(G5)
		504	K1HY08YY0025	USB CABLE W/PLUG	1	(G5)
		506	VFC4765	SHOULDER STRAP	1	(G5)
	⚠	507	VFF1027	CD-ROM (INSTRUCTION BOOK)	1	G5EG, G5EF, G5EB
	⚠	507	VFF1026	CD-ROM (INSTRUCTION BOOK)	1	G5PP, G5PC
	⚠	507	VFF1028	CD-ROM (INSTRUCTION BOOK)	1	G5GC, G5GH, G5GN
	⚠	507	VFF1029	CD-ROM (INSTRUCTION BOOK)	1	G5GT
		508	VFF1019-C	CD-ROM (SOFTWARE)	1	(G5)
		509	VQL2C67-2A	OPERATING LABEL	1	G5PC
		509	VQL2C68-1A	OPERATING LABEL	1	G5GT
		513	VPK5383	PACKING CASE	1	G5EG, G5EF, G5EB, G5GC, G5GH, G5GT, G5GN
		513	VPK5384	PACKING CASE	1	G5PP, G5PC
		514	VPN7413	PAD A	1	(G5)
		515	VPN7414	PAD B	1	(G5)
		516	VQL2T97	COLOR LABEL	1	G5PP-S, G5PC-S
		516	VQL2T98	COLOR LABEL	1	G5PP-W, G5PC-W, G5GH-W, G5GT-W
		541	VPF1100	BAG, POLYETHYLENE	1	(G5)
	⚠	542	VQT4G97	BASIC O/I (GERMAN/FRENCH)	1	G5EG
	⚠	542	VQT4G98	BASIC O/I (ITALIAN/DUTCH)	1	G5EG
	⚠	542	VQT4G94	BASIC O/I (ENGLISH/SPANISH)	1	G5PP
	⚠	542	VQT4G95	BASIC O/I (PORTUGUESE)	1	G5PP

Model No. : DMC-G5/G5K/G5X/G5W Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		542	VQT4G96	BASIC O/I (ENGLISH/CANADIAN FRENCH)	1	G5PC
		542	VQT4H03	BASIC O/I (FRENCH)	1	G5EF
		542	VQT4H04	BASIC O/I (ENGLISH)	1	G5EB
		542	VQT4H06	BASIC O/I (ENGLISH/CHINESE(TRADITIONAL))	1	G5GC,G5GH
		542	VQT4H07	BASIC O/I (ARABIC/VIETNAMESE)	1	G5GC
		542	VQT4H08	BASIC O/I (CHINESE(TRADITIONAL))	1	G5GT
		542	VQT4H10	BASIC O/I (ENGLISH)	1	G5GN
		550	K2CT3YY00034	AC CORD W/PLUG	1	G5EB,G5GC,G5GH
		551	K2CQ2YY00082	AC CORD W/PLUG	1	G5EG,G5EF,G5GC
		553	K2CA2YY00129	AC CORD W/PLUG	1	G5GT
		554	K2CJ2YY00052	AC CORD W/PLUG	1	G5GN
		600	VKF4971	BODY CAP	1	(G5X)
		601	VPF1316A	CAMERA BAG	1	(G5X)
		602	DE-A80AC/SX	BATTERY CHARGER	1	G5XEG,G5XEC,G5XEF, G5XEB,G5XEE,G5XGN
		602	DE-A79BB/SX	BATTERY CHARGER	1	G5XPP,G5XPC
		602	DE-A80BD/SX	BATTERY CHARGER	1	G5XGC,G5XGH,G5XGK
		602	DE-A80CB/SX	BATTERY CHARGER	1	G5XGT
		603	-----	BATTERY PACK	1	(G5X)
		604	K1HY08YY0025	USB CABLE W/PLUG	1	(G5X)
		606	VFC4765	SHOULDER STRAP	1	(G5X)
		607	VFF1030	CD-ROM (INSTRUCTION BOOK)	1	G5XGK
		607	VFF1027	CD-ROM (INSTRUCTION BOOK)	1	G5XEG,G5XEC,G5XEF,G5XEB
		607	VFF1026	CD-ROM (INSTRUCTION BOOK)	1	G5XPP,G5XPC
		607	VFF1028	CD-ROM (INSTRUCTION BOOK)	1	G5XEE,G5XGC,G5XGH,G5XGN
		607	VFF1029	CD-ROM (INSTRUCTION BOOK)	1	G5XGT
		608	VFF1020-C	CD-ROM (SOFTWARE)	1	G5XGK
		608	VFF1019-C	CD-ROM (SOFTWARE)	1	(EXCEPT G5XGK)
		609	VQL2C67-2A	OPERATING LABEL	1	G5XPC
		609	VQL2C68-1A	OPERATING LABEL	1	G5XGT
		610	VQL2N81-A	OPERATING SHEET	1	G5XPC,G5XGT
		613	VPK5386	PACKING CASE	1	G5XPP,G5XPC
		613	VPK5385	PACKING CASE	1	G5XEG,G5XEC,G5XEF, G5XEB,G5XEE,G5XGC, G5XGH,G5XGT,G5XGN
		613	VPK5387	PACKING CASE	1	G5XGK
		614	VPN7413	PAD A	1	(G5X)
		615	VPN7415	PAD C	1	(G5X)
		616	VQL2V11	COLOR LABEL	1	G5XGK-S
		616	VQL2T99	COLOR LABEL	1	G5XGK-W
		616	VQL2T97	COLOR LABEL	1	G5XPP-S,G5XPC-S,G5XEG-S,G5XEF-S,G5XEE-S,G5XGC-S,G5XGH-S,G5XGT-S,G5XGN-S
		616	VQL2T98	COLOR LABEL	1	G5XPP-W,G5XPC-W,G5XEG-W,G5XEF-W,G5XEE-W,G5XGC-W,G5XGH-W,G5XGT-W,G5XGN-W
		624	VFC4605	LENS REAR CAP	1	(G5X)
		625	VYF3443	LENS CAP	1	(G5X) [SPC]
		628	VPF1473	LENS BAG	1	(G5X)
		641	VPF1100	BAG, POLYETHYLENE	1	(G5X)
		642	VQT4H00	BASIC O/I (SPANISH/PORTUGUESE)	1	G5XEC
		642	VQT4H01	BASIC O/I (SWEDISH/DANISH)	1	G5XEC
		642	VQT4H02	BASIC O/I (FINNISH)	1	G5XEC
		642	VQT4H05	BASIC O/I (RUSSIAN/UKRAINIAN)	1	G5XEE
		642	VQT4H09	BASIC O/I (CHINESE(SIMPLIFIED))	1	G5XGK
		642	VQT4G97	BASIC O/I (GERMAN/FRENCH)	1	G5XEG
		642	VQT4G98	BASIC O/I (ITALIAN/DUTCH)	1	G5XEG
		642	VQT4G94	BASIC O/I (ENGLISH/SPANISH)	1	G5XPP
		642	VQT4G95	BASIC O/I (PORTUGUESE)	1	G5XPP
		642	VQT4G96	BASIC O/I (ENGLISH/CANADIAN FRENCH)	1	G5XPC
		642	VQT4H03	BASIC O/I (FRENCH)	1	G5XEF
		642	VQT4H04	BASIC O/I (ENGLISH)	1	G5XEB

Model No. : DMC-G5/G5K/G5X/G5W Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	⚠	642	VQT4H06	BASIC O/I (ENGLISH/CHINESE(TRADITIONAL))	1	G5XGC,G5XGH
	⚠	642	VQT4H07	BASIC O/I (ARABIC/VIETNAMESE)	1	G5XGC
	⚠	642	VQT4H08	BASIC O/I (CHINESE(TRADITIONAL))	1	G5XGT
	⚠	642	VQT4H10	BASIC O/I (ENGLISH)	1	G5XGN
	⚠	650	K2CT3YY00034	AC CORD W/PLUG	1	G5XEB,G5XGC,G5XGH
	⚠	651	K2CQ2YY00082	AC CORD W/PLUG	1	G5XEG,G5XEC,G5XEF, G5XEE,G5XGC
	⚠	653	K2CA2YY00130	AC CORD W/PLUG	1	G5XGK
	⚠	653	K2CA2YY00129	AC CORD W/PLUG	1	G5XGT
	⚠	654	K2CJ2YY00052	AC CORD W/PLUG	1	G5XGN
		700	VKF4971	BODY CAP	1	(G5K)
		701	VPF1316A	CAMERA BAG	1	(G5K)
	⚠	702	DE-A80AC/SX	BATTERY CHARGER	1	G5KEG,G5KEC,G5KEF, G5KEB,G5KEE,G5KGN
	⚠	702	DE-A79BB/SX	BATTERY CHARGER	1	G5KPP,G5KPC
	⚠	702	DE-A80BD/SX	BATTERY CHARGER	1	G5KGC,G5KGG,G5KGD
	⚠	703	-----	BATTERY PACK	1	(G5K)
		704	K1HY08YY0025	USB CABLE W/PLUG	1	(G5K)
		706	VFC4765	SHOULDER STRAP	1	(G5K)
	⚠	707	VFF1027	CD-ROM (INSTRUCTION BOOK)	1	G5KEG,G5KEC,G5KEF,G5KEB
	⚠	707	VFF1026	CD-ROM (INSTRUCTION BOOK)	1	G5KPP,G5KPC
	⚠	707	VFF1028	CD-ROM (INSTRUCTION BOOK)	1	G5KEE,G5KGC,G5KGN
	⚠	707	VFF1029	CD-ROM (INSTRUCTION BOOK)	1	G5KGD
	⚠	707	VFF1030	CD-ROM (INSTRUCTION BOOK)	1	G5KGG
		708	VFF1019-C	CD-ROM (SOFTWARE)	1	(EXCEPT G5KGG)
		708	VFF1020-C	CD-ROM (SOFTWARE)	1	G5KGG
		709	VQL2C67-2A	OPERATING LABEL	1	G5KPC
		713	VPK5388	PACKING CASE	1	G5KPP,G5KPC
		713	VPK5392	PACKING CASE	1	G5KEG,G5KEC,G5KEF, G5KEB,G5KEE,G5KGC, G5KGN,G5KGD
		713	VPK5389	PACKING CASE	1	G5KGG
		714	VPN7413	PAD A	1	(G5K)
		715	VPN7416	PAD D	1	(G5K)
		716	VQL2T97	COLOR LABEL	1	G5KPP-S,G5KPC-S,G5KEG-S,G5KEF-S,G5KEB-S,G5KEE-S,G5KGC-S,G5KGN-S
		716	VQL2T98	COLOR LABEL	1	G5KPP-W,G5KPC-W,G5KEG-W,G5KEF-W,G5KEE-W,G5KGC-W,G5KGN-W,G5KGD-W
		716	VQL2V11	COLOR LABEL	1	G5KGG-S
		716	VQL2T99	COLOR LABEL	1	G5KGG-W
		724	VFC4315	LENS REAR CAP	1	(G5K) [SPC]
		725	VYF3201	LENS CAP	1	(G5K)
		726	VPF1438	LENS BAG	1	(G5K) [SPC]
		727	VYC1009	LENS HOOD UNIT	1	(G5K) [SPC]
		741	VPF1100	BAG, POLYETHYLENE	1	(G5K)
	⚠	742	VQT4H11	BASIC O/I (KOREAN)	1	G5KGD
	⚠	742	VQT4G97	BASIC O/I (GERMAN/FRENCH)	1	G5KEG
	⚠	742	VQT4G98	BASIC O/I (ITALIAN/DUTCH)	1	G5KEG
	⚠	742	VQT4G94	BASIC O/I (ENGLISH/SPANISH)	1	G5KPP
	⚠	742	VQT4G95	BASIC O/I (PORTUGUESE)	1	G5KPP
	⚠	742	VQT4G96	BASIC O/I (ENGLISH/CANADIAN FRENCH)	1	G5KPC
	⚠	742	VQT4H03	BASIC O/I (FRENCH)	1	G5KEF
	⚠	742	VQT4H04	BASIC O/I (ENGLISH)	1	G5KEB
	⚠	742	VQT4H06	BASIC O/I (ENGLISH/CHINESE(TRADITIONAL))	1	G5KGC
	⚠	742	VQT4H07	BASIC O/I (ARABIC/VIETNAMESE)	1	G5KGC
	⚠	742	VQT4H10	BASIC O/I (ENGLISH)	1	G5KGN
	⚠	742	VQT4H00	BASIC O/I (SPANISH/PORTUGUESE)	1	G5KEC
	⚠	742	VQT4H01	BASIC O/I (SWEDISH/DANISH)	1	G5KEC
	⚠	742	VQT4H02	BASIC O/I (FINNISH)	1	G5KEC
	⚠	742	VQT4H05	BASIC O/I (RUSSIAN/UKRAINIAN)	1	G5KEE
	⚠	742	VQT4H09	BASIC O/I (CHINESE(SIMPLIFIED))	1	G5KGG
	⚠	750	K2CT3YY00034	AC CORD W/PLUG	1	G5KEB,G5KGC

Model No. : DMC-G5/G5K/G5X/G5W Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		751	K2CR2YY00026	AC CORD W/PLUG	1	G5KGD
		751	K2CQ2YY00082	AC CORD W/PLUG	1	G5KEG,G5KEC,G5KEF, G5KEE,G5KGC
		753	K2CA2YY00130	AC CORD W/PLUG	1	G5K GK
		754	K2CJ2YY00052	AC CORD W/PLUG	1	G5KGN
		755	VQL2J61	GD LABEL	1	G5KGD
		800	VKF4971	BODY CAP	1	(G5W)
		801	VPF1316A	CAMERA BAG	1	(G5W)
		802	DE-A80AC/SX	BATTERY CHARGER	1	G5WEG,G5WEC,G5WEF, G5WEB,G5WGN
		802	DE-A80BD/SX	BATTERY CHARGER	1	G5WGC,G5WGH,G5W GK
		802	DE-A80CB/SX	BATTERY CHARGER	1	G5WGT
		803	-----	BATTERY PACK	1	(G5W)
		804	K1HY08YY0025	USB CABLE W/PLUG	1	(G5W)
		806	VFC4765	SHOULDER STRAP	1	(G5W)
		807	VFF1027	CD-ROM (INSTRUCTION BOOK)	1	G5WEG,G5WEC,G5WEF,G5WEB
		807	VFF1028	CD-ROM (INSTRUCTION BOOK)	1	G5WGC,G5WGH,G5WGN
		807	VFF1029	CD-ROM (INSTRUCTION BOOK)	1	G5WGT
		807	VFF1030	CD-ROM (INSTRUCTION BOOK)	1	G5W GK
		808	VFF1019-C	CD-ROM (SOFTWARE)	1	(EXCEPT G5W GK)
		808	VFF1020-C	CD-ROM (SOFTWARE)	1	G5W GK
		809	VQL2C68-1A	OPERATING LABEL	1	G5WGT
		813	VPK5390	PACKING CASE	1	G5WEG,G5WEC,G5WEF, G5WEB,G5WGC,G5WGH, G5WGT,G5WGN
		813	VPK5391	PACKING CASE	1	G5W GK
		814	VPN7417	PAD D	1	(G5W)
		815	VPN7418	PAD E	1	(G5W)
		816	VPN7419	PAD F	1	(G5W)
		817	VPN7492	PAD G	1	(G5W)
		818	VQL2T97	COLOR LABEL	1	G5WGC-S,G5WGH-S,G5WGT-S,G5WGN-S
		818	VQL2T98	COLOR LABEL	1	G5WGC-W,G5WGH-W,G5WGT-W,G5WGN-W
		818	VQL2V11	COLOR LABEL	1	G5W GK-S
		818	VQL2T99	COLOR LABEL	1	G5W GK-W
		824	VFC4315	LENS REAR CAP	1	(G5W:FS014042) [SPC]
		825	VYF3201	LENS CAP	1	(G5W:FS014042)
		826	VPF1438	LENS BAG	1	(G5W:FS014042) [SPC]
		827	VYC1009	LENS HOOD UNIT	1	(G5W:FS014042) [SPC]
		828	VFC4605	LENS REAR CAP	1	(G5W:FS45150)
		829	VYF3201	LENS CAP	1	(G5W:FS45150)
		830	VPF1475	LENS BAG	1	(G5W:FS45150)
		831	VYC1090	LENS HOOD UNIT	1	(G5W:FS45150)
		841	VPF1100	BAG, POLYETHYLENE	1	(G5W)
		842	VQT4G97	BASIC O/I (GERMAN/FRENCH)	1	G5WEG
		842	VQT4G98	BASIC O/I (ITALIAN/DUTCH)	1	G5WEG
		842	VQT4H03	BASIC O/I (FRENCH)	1	G5WEF
		842	VQT4H04	BASIC O/I (ENGLISH)	1	G5WEB
		842	VQT4H06	BASIC O/I (ENGLISH/CHINESE(TRADITIONAL))	1	G5WGC,G5WGH
		842	VQT4H07	BASIC O/I (ARABIC/VIETNAMESE)	1	G5WGC
		842	VQT4H08	BASIC O/I (CHINESE(TRADITIONAL))	1	G5WGT
		842	VQT4H10	BASIC O/I (ENGLISH)	1	G5WGN
		842	VQT4H00	BASIC O/I (SPANISH/PORTUGUESE)	1	G5WEC
		842	VQT4H01	BASIC O/I (SWEDISH/DANISH)	1	G5WEC
		842	VQT4H02	BASIC O/I (FINNISH)	1	G5WEC
		842	VQT4H09	BASIC O/I (CHINESE(SIMPLIFIED))	1	G5W GK
		850	K2CT3YY00034	AC CORD W/PLUG	1	G5WEB,G5WGC,G5WGH
		851	K2CQ2YY00082	AC CORD W/PLUG	1	G5WEG,G5WEC,G5WEF,G5WGC
		853	K2CA2YY00129	AC CORD W/PLUG	1	G5WGT
		853	K2CA2YY00130	AC CORD W/PLUG	1	G5W GK
		854	K2CJ2YY00052	AC CORD W/PLUG	1	G5WGN