

Service Manual

High Definition Video Camera

Model No. **HC-X900MP**

HC-X900MPC

HC-X900MPU

HC-X900MEG

HC-X900MEP

HC-X900MEB

HC-X900MGC

HC-X900MEE

HC-X900MGN

HC-X900MGK

HC-X900EG

HC-X900EF

HC-X900EP

HC-X900EB

HC-X900GC

HC-X900EE

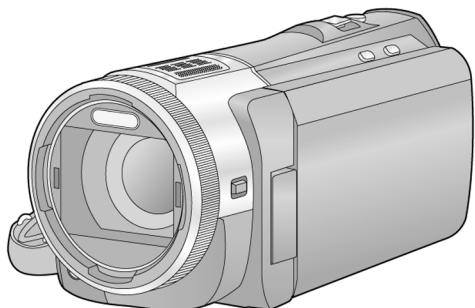
HC-X900GN

HC-X909EG

Colour

(K).....Black Type

(S).....Silver Type (only HC-X909EG)



Panasonic®

© Panasonic Corporation 2012 Unauthorized copying and distribution is a violation of law.

⚠ WARNING

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

TABLE OF CONTENTS

	PAGE
1 Safety Precautions -----	3
1.1. General Guidelines -----	3
1.2. Leakage Current Cold Check -----	3
1.3. Leakage Current Hot Check (See Figure 1.)-----	3
1.4. How to Discharge the Capacitor on Flash P.C.B.-----	4
2 Warning -----	5
2.1. Prevention of Electrostatic Discharge (ESD) to Electrostatically Sensitive (ES) Devices -----	5
2.2. How to Recycle the Lithium Ion Battery (U.S. Only)-----	5
2.3. Caution for AC Cord (For E/GC) -----	6
2.4. How to Replace the Lithium Battery-----	7
3 Service Navigation-----	8
3.1. Introduction -----	8
3.2. General Description About Lead Free Solder (PbF) -----	8
3.3. Important Notice 1:(Other than U.S.A. and Canadian Market)-----	8
3.4. How to Define the Model Suffix (NTSC or PAL model)-----	8
3.5. Formatting-----	10
4 Specifications -----	11
5 Location of Controls and Components -----	15
6 Service Mode -----	18
6.1. Built-in Memory Self Check Execution (HC-X900M only) -----	19
6.2. Lock Search History Indication -----	19
6.3. Power ON Self Check Result Display-----	20
6.4. Forced full flash emission -----	21
6.5. Erasing the lock histories -----	21
6.6. Camera data indications while the video playback -----	22
7 Service Fixture & Tools -----	23
7.1. When Replacing the Main P.C.B. -----	23
7.2. Service Position -----	23
8 Disassembly and Assembly Instructions -----	25
8.1. Disassembly Flow Chart for the Unit -----	25
8.2. P.C.B. Location -----	25
8.3. Disassembly Procedure for the Unit-----	26
9 Measurements and Adjustments -----	45
9.1. Electric Adjustment -----	45
10 Factory Setting-----	47
10.1. How To Turn On The Factory Settings?-----	47
10.2. What is The Factory Settings?-----	48
11 Block Diagram -----	49
11.1. Overall Block Diagram -----	49
11.2. System Control Block Diagram -----	50
11.3. Video/Audio Process Block Diagram (1/2)-----	51
11.4. Video/Audio Process Block Diagram (2/2)-----	52
11.5. Camera Block Diagram-----	53
	54
	55
12 Wiring Connection Diagram -----	56
12.1. Interconnection Diagram-----	56

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

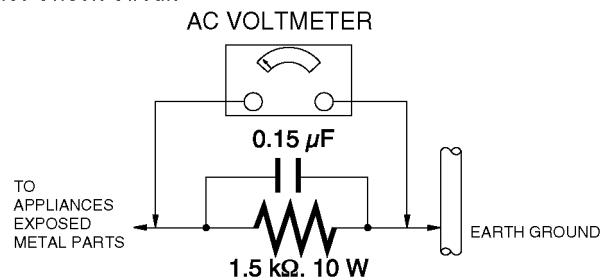


Figure. 1

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

CAUTION:

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

Before disassembling, perform "6.4. Forced full flash emission" for discharging capacitor.
The capacitor also can be discharged according to the following procedures.

[Discharging Procedure]

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

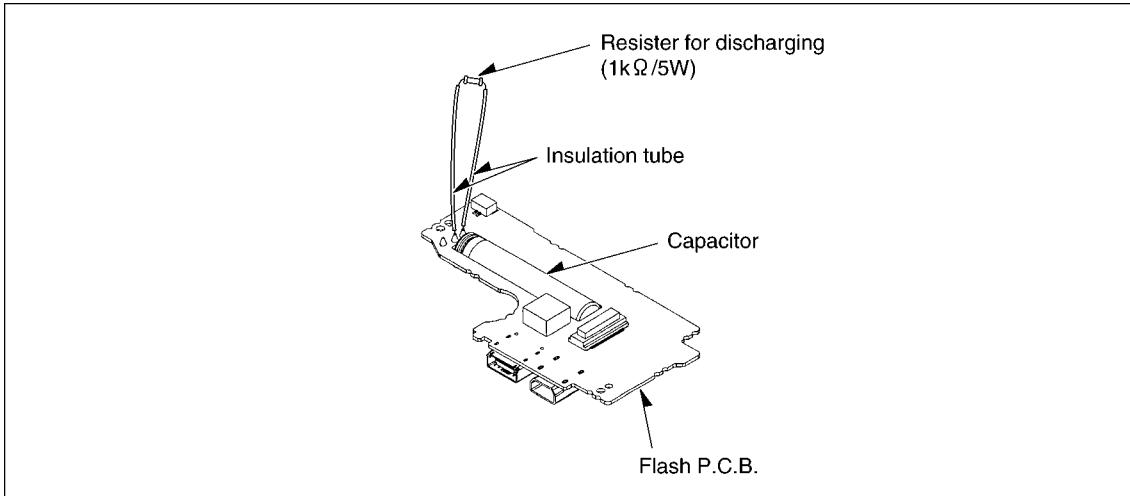


Fig. F1

2 Warning

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

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are 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).

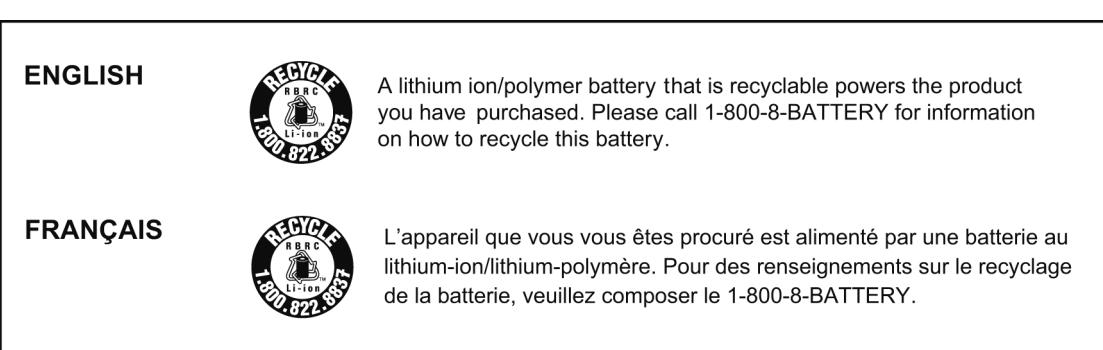
1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior 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)



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

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:

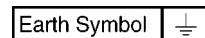
Blue	Neutral
Brown	Live

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.

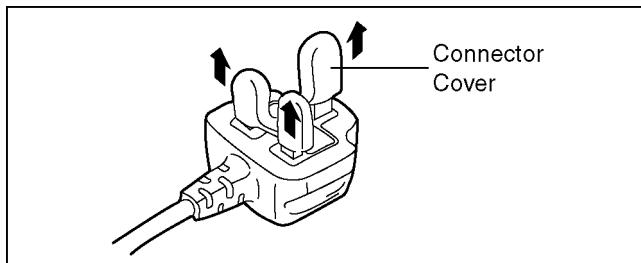
The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

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.



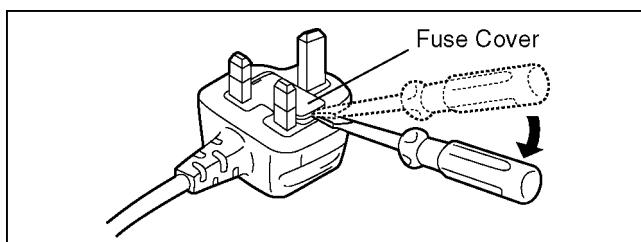
2.3.2.2. Before Use

Remove the Connector Cover as follows.

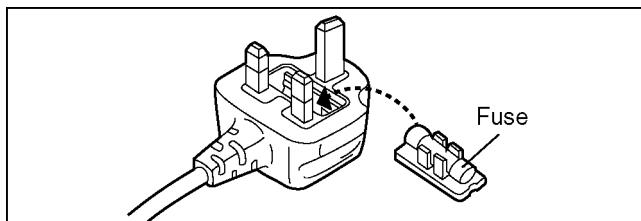


2.3.2.3. How to Replace the Fuse

1. Remove the Fuse Cover with a screwdriver.



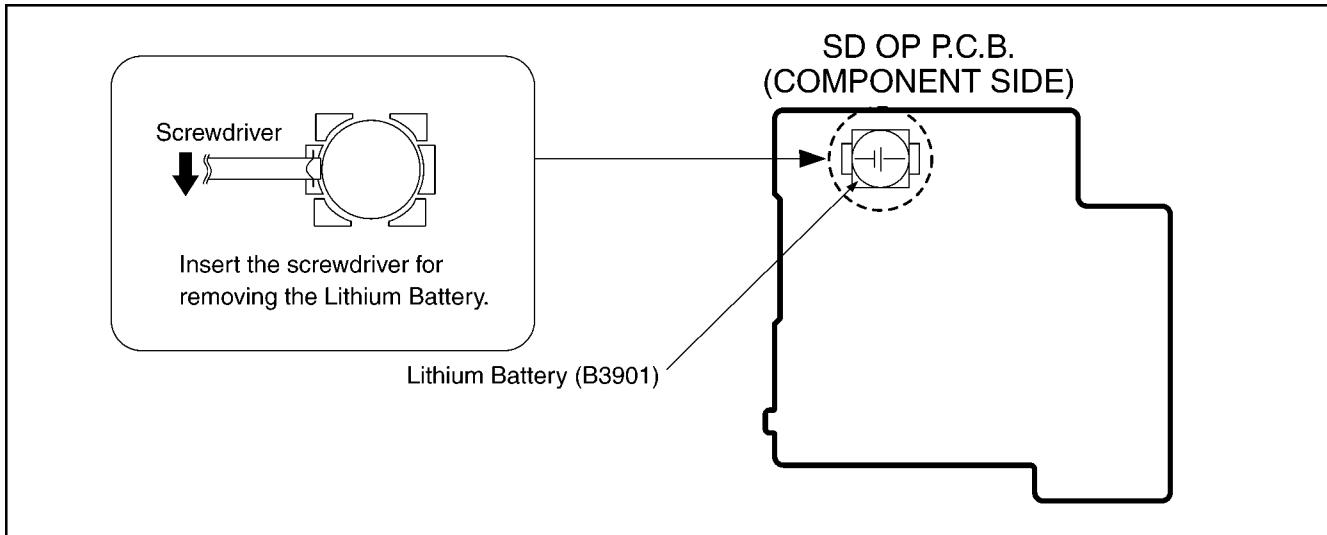
2. Replace the fuse and attach the Fuse cover.



2.4. How to Replace the Lithium Battery

2.4.1. Replacement Procedure

1. Remove the SD OP P.C.B.. (Refer to Disassembly Procedures.)
2. Remove the Lithium battery (Ref. No. "B3901" at component side of SD OP P.C.B.) and then replace it into new one.



NOTE:

This Lithium battery is a critical component.

(Type No.: ML-614 **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 same or equivalent type recommended by the manufacturer.

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

(For German)

ACHTUNG

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

Behandeln Sie gebrauchte Batterien nach den Anweisungen des Herstellers.

(For French)

MISE EN GARDE

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

NOTE:

Above caution is applicable for a battery pack which is for HC-900M / 900 / X909 series, as well.

1. Battery Pack for this model.

3 Service Navigation

3.1. Introduction

This service manual contains technical information, which allow service personnel's to understand and service this model.

Please place orders using the parts list and not the drawing reference numbers.

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

3.2. General Description About Lead Free Solder (PbF)

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

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

Distinction of 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%

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

The following category is /are recycle module part. Please send it/them to Central Repair Center.

- MAIN P.C.B. (VEP03J23B: HC-X900M)
- MAIN P.C.B. (VEP03J23C: HC-X900 / X909)

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

There are six kinds of HC-X900M / X900 / X909.

- a) HC-X900MP
- b) HC-X900MPC
- c) HC-X900MEG / MEB / MEP / MGN, X900EG / EB / EF / EP / GN, X909EG
- d) HC-X900MEE, X900EE
- e) HC-X900MGK
- f) HC-X900MGC / MPU, X900GC

What is the difference is that the "INITIAL SETTING" 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 rating label and caution label which are putted on the Unit.

a) HC-X900MP

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



b) HC-X900MPC

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



c) HC-X900MEG/MEB/MEP/MGN, X900EG/EB/EF/EP/GN, X909EG

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



d) HC-X900MEE, X900EE

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



e) HC-X900MGK

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



f) HC-X900MGC/MPU, X900GC

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

NOTE:

After replacing the MAIN P.C.B., be sure to achieve adjustment.

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

3.5. Formatting

[HC-X900] [HC-X909]
[FORMAT CARD]

Please be aware that if a medium is formatted, then all the data recorded on the medium will be erased and cannot be restored. Back up important data on a PC, DVD disc etc.

- When formatting is complete, touch [EXIT] to exit the message screen.
- Perform a physical formatting of the SD card when the SD card is to be disposed/transferred.

- Do not turn this unit off or remove the SD card, while formatting. Do not expose the unit to vibrations or shock.

Use this unit to format media.

Do not format an SD card using any other equipment such as a PC. Otherwise it may not be possible to use the card on this unit.

[HC-X900M]
[FORMAT MEDIA]

Please be aware that if a medium is formatted, then all the data recorded on the medium will be erased and cannot be restored. Back up important data on a PC, DVD disc etc.

1 Touch [FORMAT MEDIA].

2 Touch [SD CARD] or [Built-inMemory].

- When formatting is complete, touch [EXIT] to exit the message screen.
- Perform a physical formatting of the SD card when the SD card is to be disposed/transferred.
- Perform a physical formatting of the built-in memory when this unit is to be disposed/transferred.

- Do not turn this unit off or remove the SD card, while formatting. Do not expose the unit to vibrations or shock.

Use this unit to format media.

Formatting built-in memory is only available with this unit.

Do not format an SD card using any other equipment such as a PC. Otherwise it may not be possible to use the card on this unit.

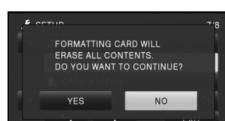
About the SD card

When disposing of or giving away the SD card, note that:

- Formatting and deletion of this unit or computer only changes the file management information and does not completely delete the data in the SD card.
- It is recommended that the SD card is physically destroyed or the SD card is physically formatted using this unit when disposing of or giving away the SD card.

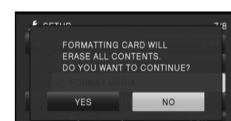
[HC-X900] [HC-X909]

To physically format the SD card, connect the unit via the AC adaptor, select [SETUP] → [FORMAT CARD] → [YES] from the menu, and then press and hold the recording start/stop button on the screen below for about 3 seconds. When the SD card data deletion screen appears, select [YES], and then follow the on-screen instructions.



[HC-X900M]

To physically format the SD card, connect the unit via the AC adaptor, select [SETUP] → [FORMAT MEDIA] → [SD CARD] from the menu, and then press and hold the recording start/stop button on the screen below for about 3 seconds. When the SD card data deletion screen appears, select [YES], and then follow the on-screen instructions.



- The customer is responsible for the management of the data in the SD card.

4 Specifications

Specifications

High Definition Video Camera Information for your safety

Power source:	DC 9.3 V (When using AC adaptor)	
	DC 7.2 V (When using battery)	
Power consumption:	Recording; 8.9 W	Charging; 10.3 W

Motion picture recording format:

[AVCHD]; AVCHD format version 2.0 compliant (AVCHD 3D/Progressive)
[iFrame]; MPEG-4 AVC file format compliant (.MP4)

Motion picture compression:

MPEG-4 AVC/H.264
MPEG-4 MVC/H.264 (AVCHD 3D)

Audio compression:

[AVCHD];
Dolby Digital/5.1 ch (built-in microphone), 2 ch (built-in microphone/external microphone)
[iFrame], [MP4]; AAC/2 ch

Recording mode and transfer rate:

[1080/50p]; Maximum 28 Mbps (VBR)

[HA]; Average 17 Mbps (VBR)

[HG]; Average 13 Mbps (VBR)

[HX]; Average 9 Mbps (VBR)

[HE]; Average 5 Mbps (VBR)

[iFrame]; Maximum 28 Mbps (VBR)

[AVCHD 3D]; Maximum 28 Mbps (VBR)

[Sbs 3D]; Average 17 Mbps (VBR)

Refer to page 165 for the picture size and recordable time of motion picture.

Still picture recording format:

JPEG (Design rule for Camera File system, based on Exif 2.2 standard)

MPO format compatible (3D still picture)

Recording media:

SD Memory Card (FAT12 and FAT16 system compliant)

SDHC Memory Card (FAT32 system compliant)

SDXC Memory Card (exFAT system compliant)

HC-X900M

Built-in memory; 32 GB

Image sensor:

1/4.1 type (1/4.1") 3MOS image sensor

Total; 3050 K×3

Effective pixels;

Motion picture; 2190 K to 2070 K × 3 (16:9)

Still picture; 2290 K×3 (4:3), 2370 K×3 (3:2), 2190 K to 2070 K × 3 (16:9)

Lens:

Auto Iris, 12× Optical Zoom, F1.5 to F2.8

Focal length; 2.84 mm to 34.1 mm

Macro (Full range AF)

35 mm equivalent;

Motion picture; 29.8 mm to 368.8 mm (16:9)

Still picture; 31 mm to 372 mm (4:3), 29.8 mm to 357.7 mm (3:2), 29.8 mm to 368.8 mm (16:9)

Minimum focus distance;

Normal; Approx. 3.5 cm (Wide)/Approx. 1.2 m (Tele)

Tele Macro; Approx. 95 cm (Tele)

Intelligent Auto Macro; Approx. 1 cm (Wide)/Approx. 95 cm (Tele)

Filter diameter:

49 mm

Zoom:

12× optical zoom, 23× i.Zoom, 30×/700× digital zoom

Image stabilizer function:

Optical (Hybrid Optical Image Stabilizer, Active Mode (Rotation correction), Optical Image Stabilizer Lock function)

Monitor:

8.8 cm (3.5") wide LCD monitor (Approx. 1152 K dots)

Viewfinder:

0.61 cm (0.24") wide EVF (Approx. 263 K dots equivalent)

Microphone:

5.1 channel surround microphone (with a zoom microphone/focus microphone functions)/
Stereo microphone

Speaker:

1 round speaker, dynamic type

White balance adjustment:

Auto tracking white balance system

Standard illumination:

1,400 lx

Minimum required illumination:

Approx. 1.6 lx (1/25 with Low Light mode in the Scene Mode)

Approx. 1 lx with the Colour Night View function

AV multi connector video output level:

Component video out put level;

Y; 1.0 Vp-p, 75 Ω

Pb; 0.7 Vp-p, 75 Ω

Pr; 0.7 Vp-p, 75 Ω

AV video output level;

1.0 Vp-p, 75 Ω, PAL system

HDMI mini connector video output level:

HDMI™ (x.v.Colour™) 1080p/1080i/576p

AV multi connector audio output level (Line):

316 mV, 600 Ω, 2 ch

Headphone output:

77 mV, 32 Ω (Stereo mini jack)

HDMI mini connector audio output level:

[AVCHD]; Dolby Digital/Linear PCM

[iFrame], [MP4]; Linear PCM

MIC input:

-70 dBV (Mic sensitivity -50 dB equivalent, 0 dB=1 V/Pa, 1 kHz)
(Stereo mini jack)

USB:

Reader function

SD card; Read only (No copyright protection support)

HC-X900

Built-in memory; Read only

Hi-Speed USB (USB 2.0), USB terminal Type Mini AB

USB host function (for DVD burner)

Flash:

Available range; Approx. 1.0 m to 2.5 m

Dimensions:

67 mm (W)×72 mm (H)×150 mm (D) (including projecting parts)

Mass:

HC-X900 (**HC-X909**)

Approx. 425 g [without battery (supplied) and an SD card (optional)]

HC-X900M

Approx. 425 g [without battery (supplied)]

Mass in operation:

HC-X900 (**HC-X909**)

Approx. 485 g [with battery (supplied) and an SD card (optional)]

HC-X900M

Approx. 485 g [with battery (supplied)]

Operating temperature:

0 °C to 40 °C

Operating humidity:

10%RH to 80%RH

AC adaptor

Information for your safety

Power source: AC 110 V to 240 V, 50/60 Hz

Power consumption: 16 W

DC output: DC 9.3 V, 1.2 A

Dimensions:

52 mm (W)×26 mm (H)×86.3 mm (D)

Mass:

Approx. 115 g

■ 3D Conversion Lens (optional)**Lens:**

F2.0 (f = 1.64 mm)

35 mm equivalent; 33 mm

Minimum recording distance; Approx. 1.2 m

Minimum illumination:

Approx. 12 lx (1/25 with Low Light Mode in the Scene Mode)

Charging and recording time

■ Charging/Recording time

- Temperature: 25 °C/humidity: 60%RH
- When using the viewfinder (times in parentheses are when using the LCD monitor)

Battery model number [Voltage/Capacity (minimum)]	Charging time	Recording mode	Maximum continuous recordable time	Actual recordable time
Supplied battery/ VW-VBN130 (optional) [7.2 V/1250 mAh]	2 h 30 min	[1080/50p], [AVCHD 3D]*	1 h 25 min (1 h 15 min)	55 min (45 min)
		[HA], [HG], [HX], [HE]	1 h 30 min (1 h 20 min)	55 min (50 min)
		[iFrame], [SbS 3D]*	1 h 35 min (1 h 20 min)	55 min (50 min)
VW-VBN260 (optional) [7.2 V/2500 mAh]	4 h 30 min	[1080/50p], [AVCHD 3D]*	3 h 5 min (2 h 45 min)	1 h 55 min (1 h 40 min)
		[HA], [HG], [HX], [HE]	3 h 15 min (2 h 50 min)	2 h (1 h 45 min)
		[iFrame]	3 h 20 min (2 h 55 min)	2 h (1 h 45 min)
		[SbS 3D]*	3 h 15 min (2 h 55 min)	2 h (1 h 45 min)

* This will be the recording mode when the 3D Conversion Lens (optional) is attached.

Recording modes/approximate recordable time

- SD cards are only mentioned with their main memory size. The stated times are the approximate recordable times for continuous recording.



Recording mode	[1080/50p]	[HA]	[HG]	[HX]	[HE]
Picture size/ Frame rate	1920×1080/ 50p	1920×1080/ 50i	1920×1080/ 50i	1920×1080/ 50i	1920×1080/ 50i
SD card	4 GB	19 min	30 min	40 min	1 h
	16 GB	1 h 20 min	2 h	2 h 40 min	4 h 10 min
	64 GB	5 h 20 min	8 h 30 min	11 h	16 h 50 min
HC-X900M Built-in memory	32 GB	2 h 40 min	4 h 10 min	5 h 30 min	8 h 20 min
					13 h 40 min

- A Favours image quality
B Favours Recording time

Recording mode	[iFrame]	[AVCHD 3D]	[SbS 3D]
Picture size/ Frame rate	960×540/ 25p	1920×1080/ 50i	1920×1080/ 50i
SD card	4 GB	19 min	19 min
	16 GB	1 h 20 min	1 h 20 min
	64 GB	5 h 20 min	5 h 20 min
HC-X900M Built-in memory	32 GB	2 h 40 min	2 h 40 min
			4 h 10 min

- If recording for long periods, prepare batteries for 3 or 4 times the period you wish to record for.
- The default setting is [HG] mode.
- Maximum continuously recordable time for one scene: 6 hours
- The recording is paused once when the recording time for one scene exceeds 6 hours, and the recording will automatically resume after a few seconds.
- The recordable time may be reduced if recording with a lot of action is recorded or recording of short scene is repeated.
- Use time in the row of 4 GB in above table as a guideline for the time that can be copied onto one DVD disc (4.7 GB).

Approximate number of recordable pictures

- SD cards are only mentioned with their main memory size. The stated number is the approximate number of recordable pictures.

Picture size		[15.1M] 4480×3360	[8.6M] 3392×2544	[5.8M] 2784×2088	[0.3M] 640×480
Aspect ratio		[4:3]			
SD card	4 GB	450	800	1200	28000
	16 GB	1900	3300	5000	118000
	64 GB	7500	13000	20000	475000
HC-X900M Built-in memory	32 GB	3900	6500	10000	237000

Picture size		[16M] 4896×3264	[8.6M] 3600×2400	[6.1M] 3024×2016
Aspect ratio		[3:2]		
SD card	4 GB	400	800	1100
	16 GB	1800	3300	4700
	64 GB	7000	13000	18500
HC-X900M Built-in memory	32 GB	3700	6500	9000

Picture size		[14.7M] 5120×2880	[8.3M] 3840×2160	[5.8M] 3200×1800	[2.1M] 1920×1080
Aspect ratio		[16:9]			
SD card	4 GB	450	850	1200	3100
	16 GB	1900	3500	5000	13000
	64 GB	7500	14000	20000	52000
HC-X900M Built-in memory	32 GB	4000	7000	10000	26000

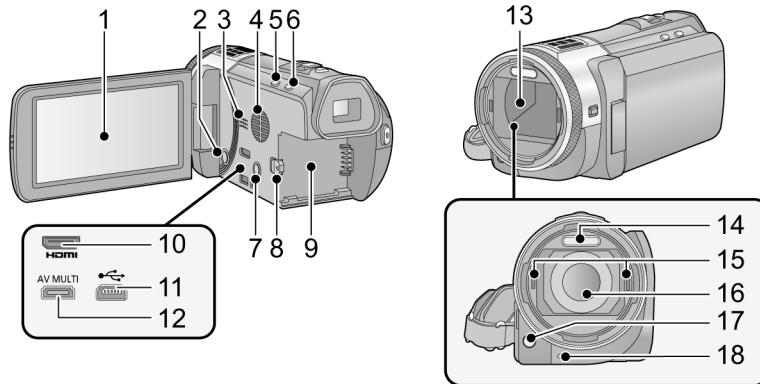
When recording 3D still picture

Picture size		[2.1M] 1920×1080
Aspect ratio		[16:9]
SD card	4 GB	1000
	16 GB	4300
	64 GB	17500
HC-X900M Built-in memory	32 GB	8500

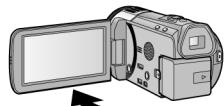
- The number of recordable pictures depends on the subject being recorded.
- When recording a 3D still picture, the equivalent 2D still picture is recorded as well; therefore, the number of recordable pictures will be reduced accordingly.
- Maximum number of recordable pictures that can be displayed is 9999. If the number of recordable pictures exceeds 9999, R 9999+ is displayed. The number will not change when the picture is taken until the number of recordable pictures gets 9999 or less.
- The memory capacity indicated on the label of an SD card is the total of the capacity for copyright protection and management and the capacity which can be used on the unit, a PC etc.

5 Location of Controls and Components

Names and Functions of Main Parts



1 LCD monitor (Touch screen)



- It can open up to 90°.



- It can rotate up to 180° A towards the lens or 90° B towards the opposite direction.

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

2 Power button [\odot/\mid]

3 Speaker

4 Inlet (cooling fan)

5 Intelligent auto/Manual button [IA/MANUAL]

6 Optical image stabilizer button [(OIS)]

7 1080/50p button [1080/50p]

8 Battery release lever [BATT]

9 Battery holder

10 HDMI mini connector [HDMI]

11 USB terminal [\leftarrow]

12 AV multi connector [AV MULTI]

- Use the AV multi cable (only the supplied cable).

13 Lens cover

• The lens cover opens in Motion Picture Recording Mode or Still Picture Recording Mode.

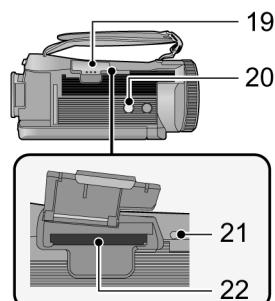
14 Built-in flash

15 3D Conversion Lens attachment part (concave)

16 Lens (LEICA DICOMAR)

17 AF assist lamp

18 Recording lamp



19 SD card cover

20 Tripod receptacle

- If you attach a tripod which has 5.5 mm screw or larger, it may damage this unit.

21 Access lamp [ACCESS]

22 Card slot

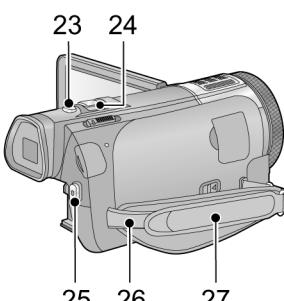
23 Photoshot button []

24 Zoom lever [W/T] (In Motion Picture Recording Mode or Still Picture Recording Mode)

Thumbnail display switch [/]

Volume lever [-VOL+] (In Playback Mode)

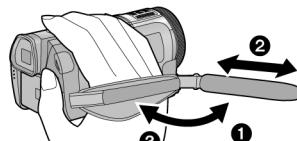
25 Recording start/stop button



26 Shoulder strap fixture

27 Grip belt

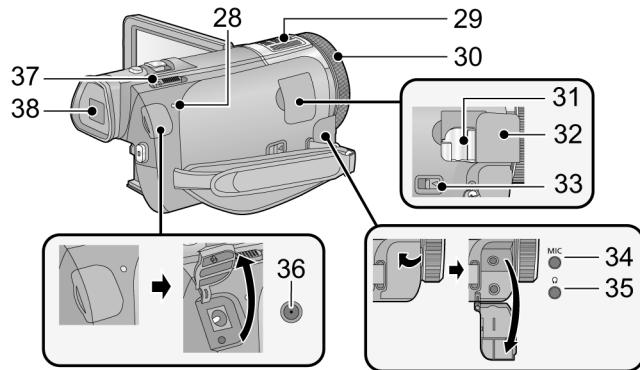
Adjust the length of the grip belt so that it fits your hand.



- ① Flip the belt.

- ② Adjust the length.

- ③ Replace the belt.



28 Status indicator

29 Internal microphones

30 Multi manual ring

31 Shoe adaptor mounting part

32 Shoe adaptor cover

**33 Shoe adaptor release lever
[SHOE ADAPTOR RELEASE]**

34 Microphone terminal [MIC]

- A compatible plug-in powered microphone can be used as an external microphone.

- Audio will be stereo (2 ch) with the external microphone input.

- (Microphone input level meter) is displayed when the external microphone is connected.

- When the unit is connected with the AC adaptor, sometimes noise may be heard depending on the microphone type. In this case, please switch to the battery for the power supply and the noise will stop.

35 Headphone terminal []

- Excessive sound pressure from earphones and headphones can cause hearing loss.

- Listening at full volume for long periods may damage the user's ears.

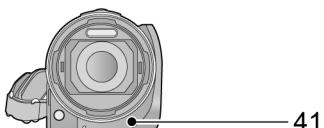
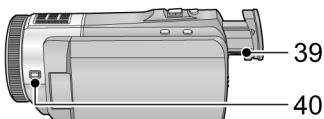
36 DC input terminal [DC IN]

- Do not use any other AC adaptors except the supplied one.

37 Mode switch

38 Viewfinder

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



39 Eyepiece corrector dial

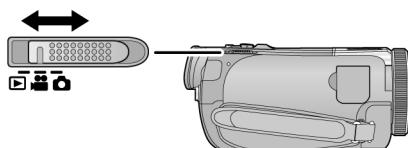
**40 Camera function button
[CAMERA FUNCTION]**

41 Remote control sensor

Selecting a mode

Change the mode to recording or playback.

Operate the mode switch to change the mode to , or .



	Motion Picture Recording Mode
	Still Picture Recording Mode
	Playback Mode

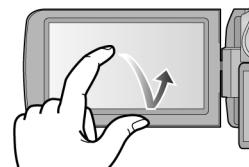
How to use the touch screen

You can operate by directly touching the LCD monitor (touch screen) with your finger.

■ Touch

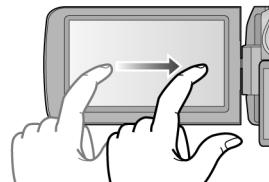
Touch and release the touch screen to select icon or picture.

- Touch the centre of the icon.
- Touching the touch screen will not operate while you are touching another part of the touch screen.



■ Slide while touching

Move your finger while pressing on the touch screen.



About the Touch Menu

Touch \triangleleft (left side)/ \triangleright (right side) of on the Touch Menu to switch the operation icons.

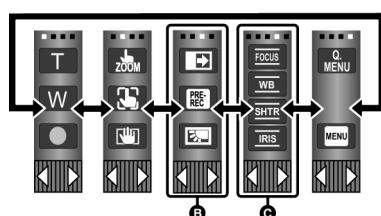
Touch \triangleleft (left side)/ \triangleright (right side) of on the Touch Menu.

- It is also possible to switch the operation icons by sliding the Touch Menu right or left while touching it.

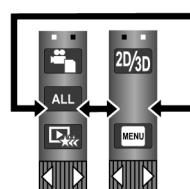
A Touch Menu



Recording Mode



Playback Mode



* Above image is example of display for HC-X900/HC-X900M.

B Operation icons to display can be changed.

C Displayed only during the Manual Mode.

■ To display the Touch Menu



Display of the Touch Menu will disappear when no touch operation is performed for a specific period of time. To display it again, touch .

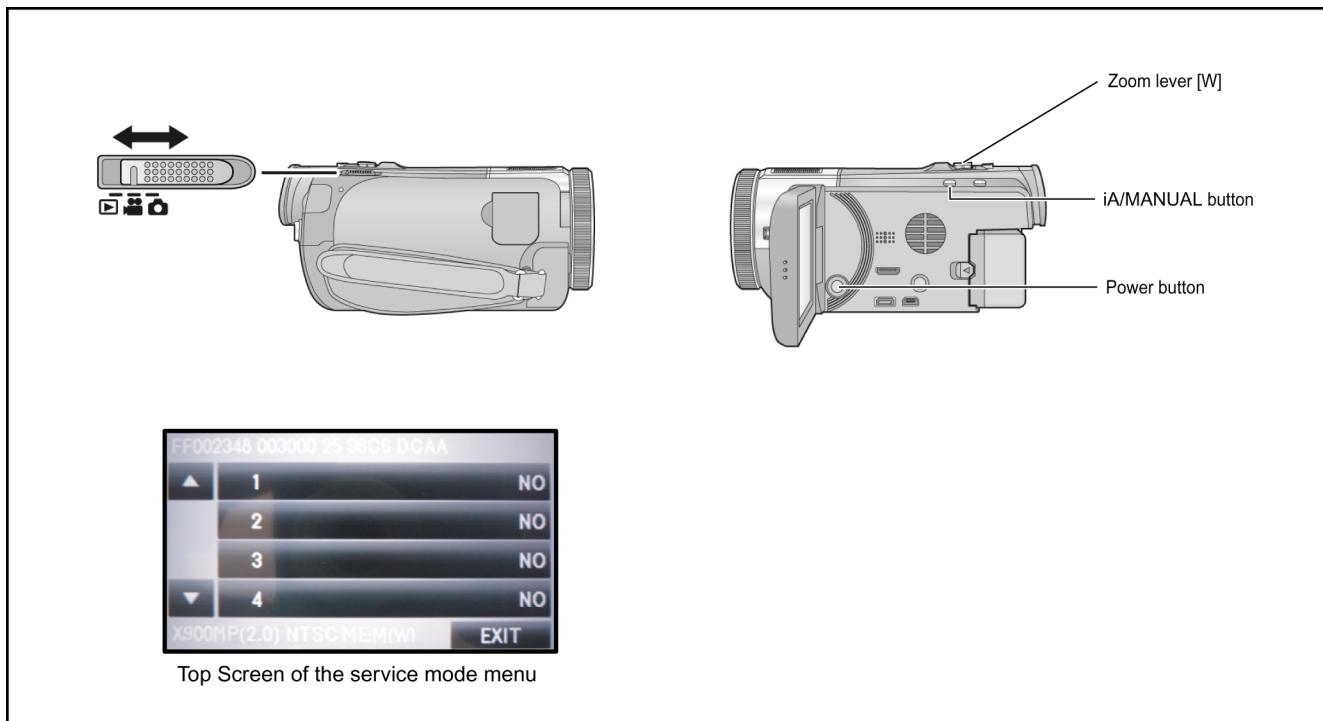
- Do not touch on the LCD monitor with hard pointed tips, such as ball point pens.

6 Service Mode

1. Indication method of the service menu

Set the mode switch "Motion Picture Recording" mode.

2. While the power is turned OFF, keep pressing the "POWER" button, "Zoom lever" to W side and "iA/Manual" button for more than 3 seconds until the top screen of the Service Mode Menu being displayed.



Service mode menu

Screen display	Contents	Function
1	Factory settings	Function to throw a product up in a factory shipment state
3	Built-in memory self check execution (HC-X900M only)	Function to check self as for the state of Built-in memory
4	Lock search history indication	Display the camera system error cord for three histories saved in EEPROM
5	Power ON self check result display	Power ON self check (function to diagnose correct function of the device and interface between devices) result display
9	Forced full flash emission	Forced full flash emission for discharging the capacitor on FLASH P.C.B. and set to prohibit charge
10	Erasing the lock histories	Erasing the error histories (working time is not erased)
12	Camera data indications while the video playback	Display the camera informations (Shutter speed, Iris value, White balance and focal length) while playing recorded video

NOTE:

Do not using service mode except above table of Service mode menu.

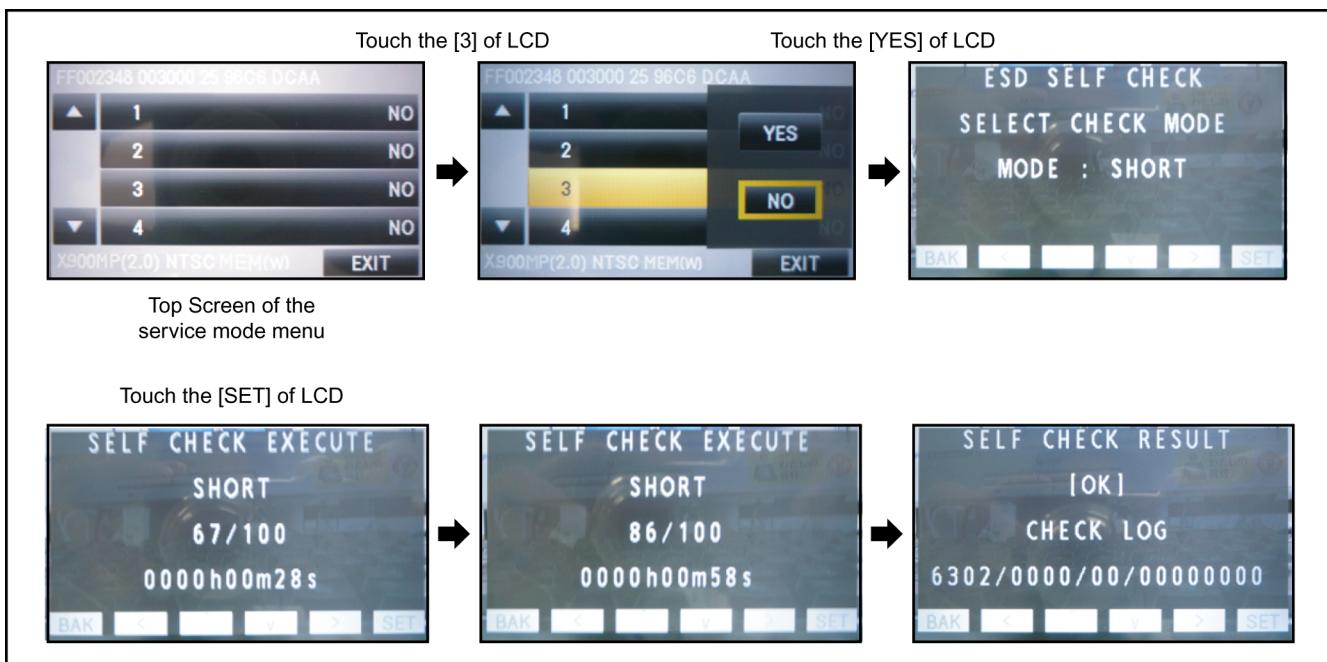
3. End method of the top screen of the service mode menu

Touch the [EXIT] of LCD to end the service mode, and then POWER OFF.

6.1. Built-in Memory Self Check Execution (HC-X900M only)

Touch the [3] of LCD, select Built-in memory self check execution.

Operation specifications



Indication contents

- Built-in memory self check result display

Display the Built-in memory self check execution.

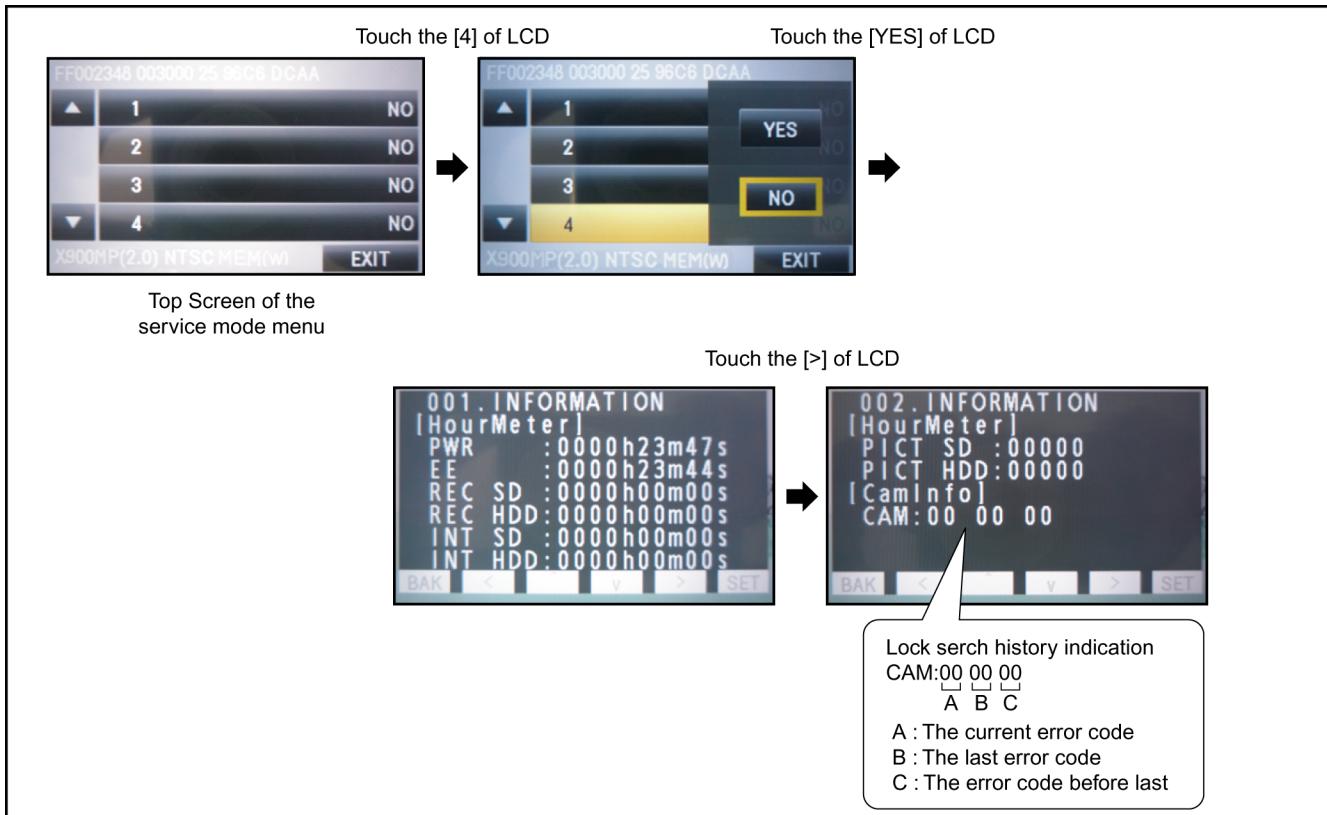
Displays other than "OK" are abnormalities of Built-in memory.

Touch the [BAK] of LCD to end the service mode, and then POWER OFF.

6.2. Lock Search History Indication

Touch the [4] of LCD, select Lock search history indication.

Operation specifications



Indication contents

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

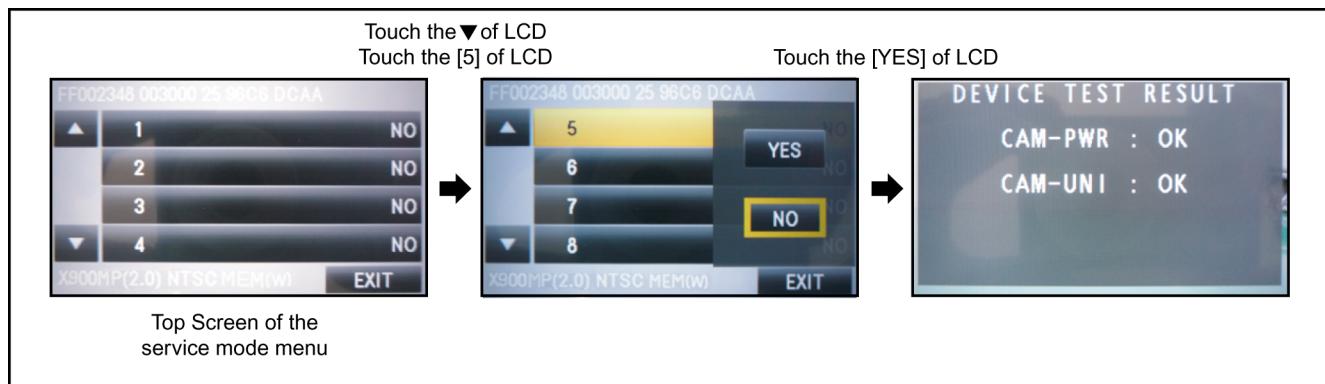
Error	code Function
51	Focus control is abnormal
52	Zoom control is abnormal
53	OIS lens control is abnormal
71	Lens cover open/close is abnormal
72	Cooling fan is abnormal
73	High temperature is abnormal

Touch the [BAK] of LCD to end the service mode, and then POWER OFF.

6.3. Power ON Self Check Result Display

Touch the [5] of LCD, select Power ON self check result display.

Operation specifications



Indication contents

- Power ON self check result display
Function to diagnose correct function of the device and interface between devices result display.

Display the following communication test result.

-CAM-PWR : Communication test between IC3401 to IC2304

-CAM-UNI : IC3401 internal communication test.

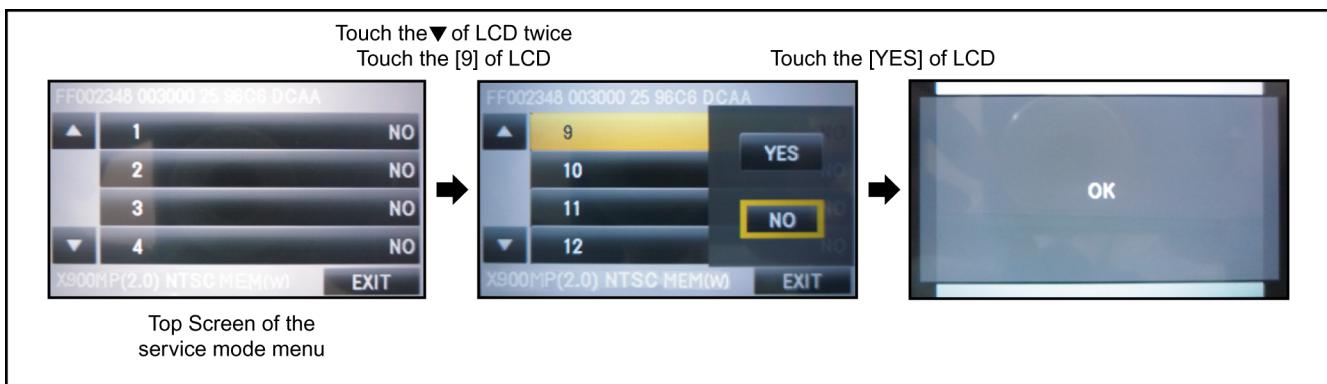
Display other than "OK" are abnormalities of each lines.

Cutting of battery connection or AC power supply connection to end the service mode.

6.4. Forced full flash emission

Touch the [9] of LCD, select Forced full flash execution.

Operation specifications



Indication contents

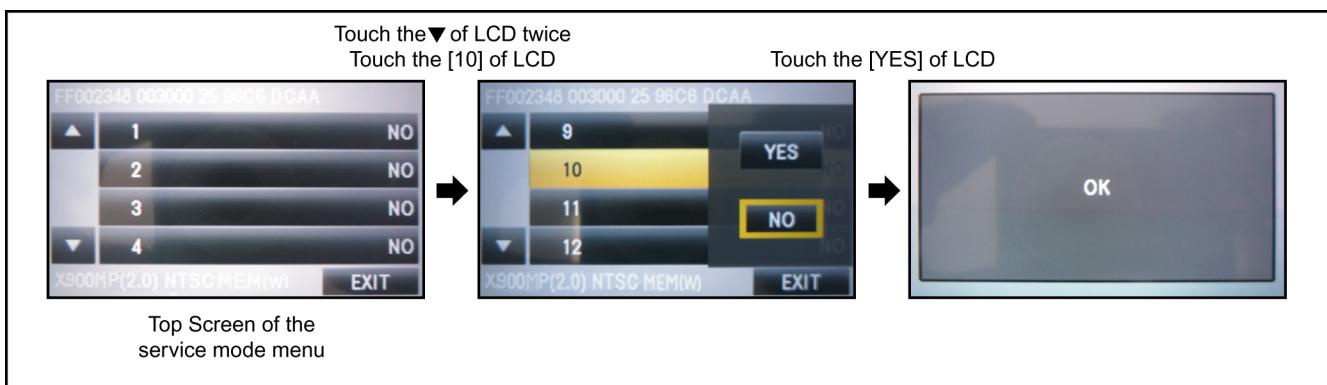
- Discharging the capacitor without using register.
Forced full flash emission for charge capacitor completely discharge.
To prevent electric shock, we recommend enforcement before disassembling.

Cutting of battery connection or AC power supply connection to end the service mode.

6.5. Erasing the lock histories

Touch the [10] of LCD, select erasing the lock histories execution.

Operation specifications



Indication contents

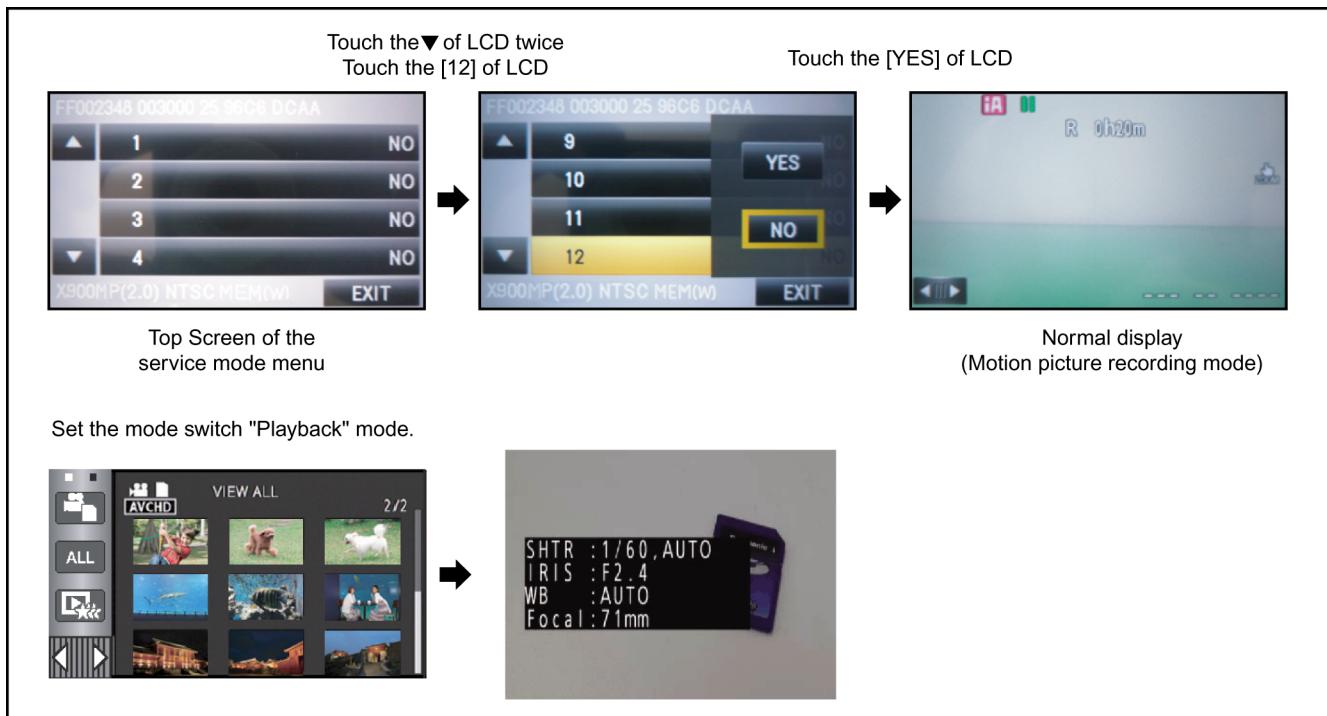
- Erasing the error histories stored in EEPROM. (working time is not erased)

Cutting of battery connection or AC power supply connection to end the service mode.

6.6. Camera data indications while the video playback

Touch the [12] of LCD, select indicating the camera informations while playing back the recorded video.

Operation specifications



Indication contents

- While playing back the recorded videos, the camera informations (Shutter speed, Iris value, White balance and focal length) are superimposed on the LCD screen.

Press the power button and turn off.

7 Service Fixture & Tools

7.1. When Replacing the Main P.C.B.

After replacing the MAIN P.C.B., be sure to achieve adjustment.

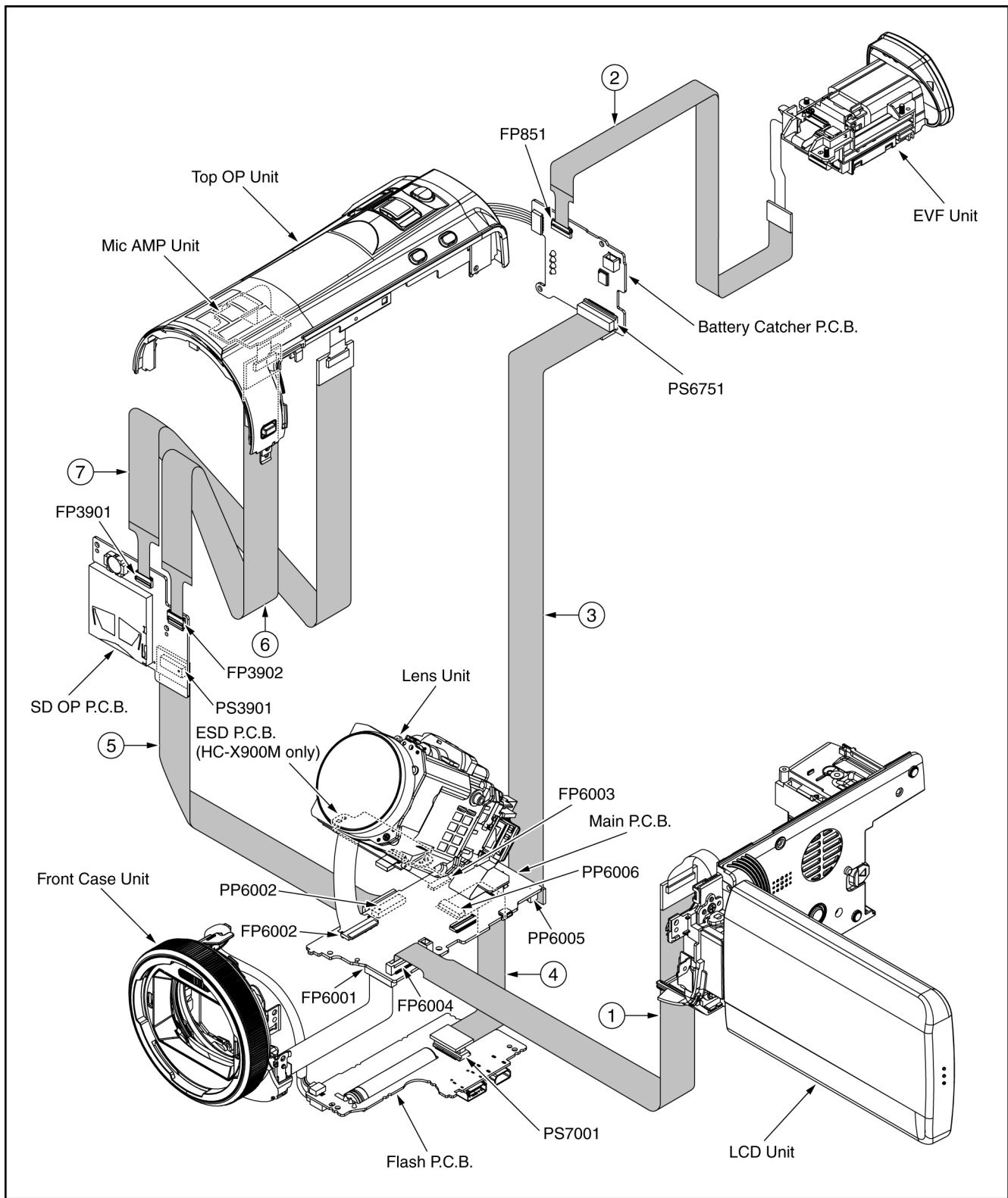
The adjustment instruction is available at “software download” on the “Support Information from NWBG/VDBG-AVC” web-site in “TSN system”, together with Maintenance software.

7.2. Service Position

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

Table S1 Extension Cable List

No.	Parts No.	Connection	Form
1	VFK1951	FP6004 (MAIN) - MONITOR FPC	39PIN 0.3 FFC
2	RFKZ0564	FP851 (BATTERY CATCHER) - EVF UNIT	23PIN 0.3 FFC
3	RFKZ0444	PP6005 (MAIN) - PS6751 (BATTERY CATCHER)	50PIN 0.5 B to B
4	VFK1895	PP6006 (MAIN) - PS7001 (FLASH)	40PIN 0.5 B to B
5	VFK1895	PP6002 (MAIN) - PS3901 (SD OP)	40PIN 0.5 B to B
6	VFK1582A1225 or VFK1388	FP3902 (SD OP) - MIC AMP UNIT	12PIN 0.5 FFC
7	VFK1582A1225 or VFK1388	FP3901 (SD OP) - TOP OP UNIT	12PIN 0.5 FFC



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

1. Be sure to discharge the capacitor on Flash P.C.B..

Refer to "How to Discharge the Capacitor on Flash P.C.B.".

The capacitor voltage is not lowered soon even if the AC Cord is unplugged or the battery is removed.

2. Be careful of the high voltage circuit on Flash P.C.B..

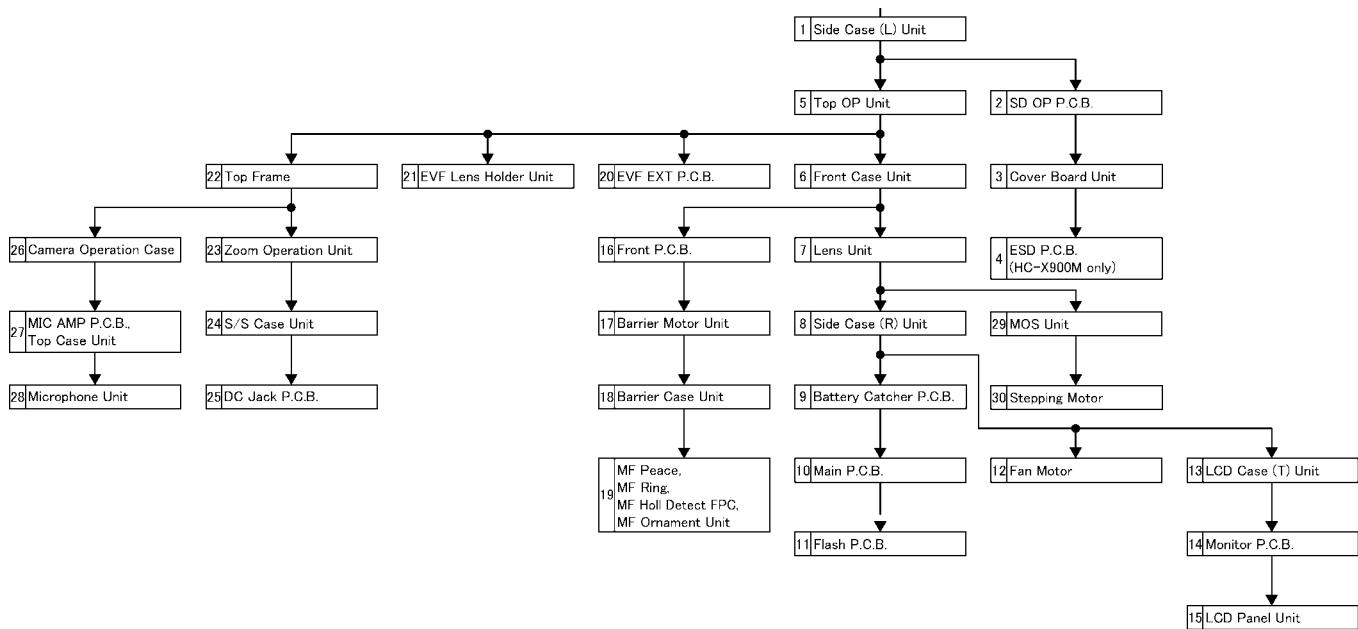
3. DO NOT allow other parts to touch the high voltage circuit on Flash P.C.B..

8 Disassembly and Assembly Instructions

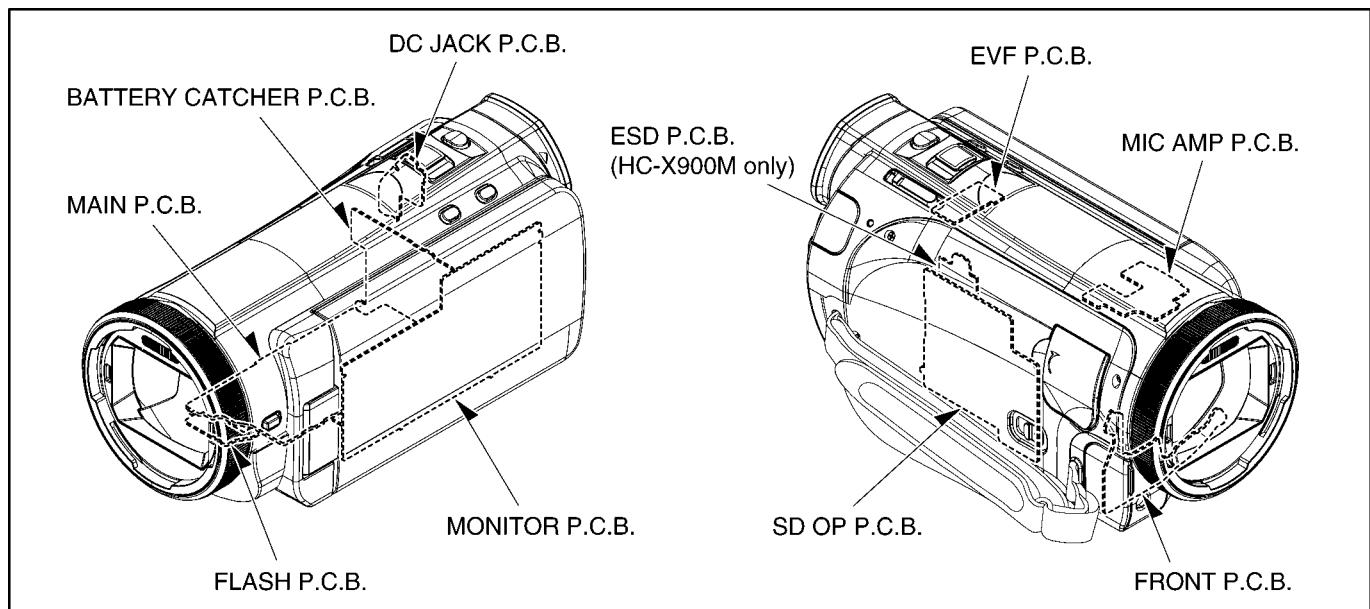
8.1. Disassembly Flow Chart for the Unit

This is a disassembling chart.

When assembling, perform this chart conversely.



8.2. P.C.B. Location



8.3. Disassembly Procedure for the Unit

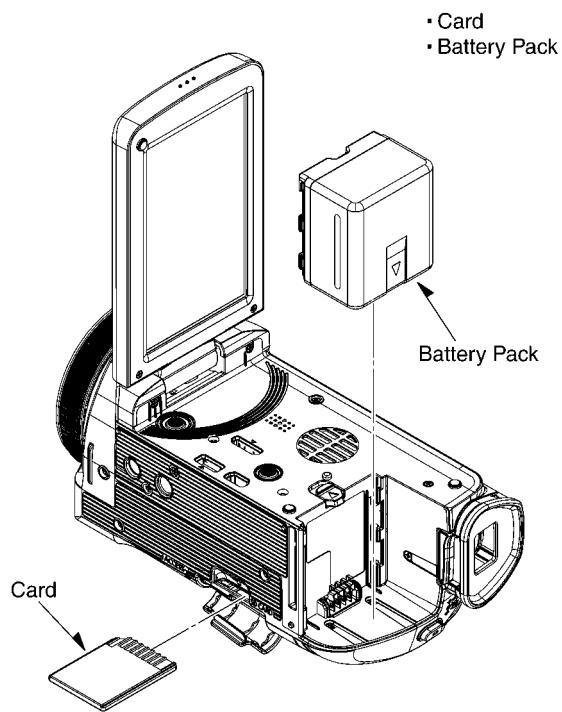
No.	Item	Fig.	Removal
1	Side Case L Unit	(Fig. D1)	2 Screws (A) 2 Screws (B) 2 Locking Tabs
			5 Screws (C) 2 Locking Tabs
		(Fig. D2)	2 Screws (D) 1 Hanging part FP3901 (Flex) FP3902 (Flex) PS3901 (Connector)
2	SD OP P.C.B.	(Fig. D3)	
3	Cover Board Unit	(Fig. D4)	3 Screws (E) 1 Screw (F)
4	ESD P.C.B. (HC-X900M only)	(Fig. D5)	1 Screw (G) 1 Screw (H) FP3201 (Flex) ESD Angle
5	Top Case Unit	(Fig. D6)	1 Screw (I) 2 Screws (J) 1 Screw (K) 1 Locking Tab Sensor Window
			1 Screw (L) FP851 (Flex) P6752 (Connector)
6	Front Case Unit	(Fig. D8)	1 Screw (M) FP6403 (Flex) P7001 (Connector) P7002 (Connector)
7	Lens Unit	(Fig. D9)	FP6002 (Flex) PS6011 (Connecto)
8	Side Case R Unit	(Fig. D10)	4 Screws (N) 2 Screws (O) FP6004 (Flex) P6001 (Connector) P6302 (Connector) Rear Frame
9	Battery. Catcher P.C.B.	(Fig. D11)	PP6005 (Connector) PS6751 (Connector) Heat Radiation Sheet A
10	Main P.C.B.	(Fig. D12)	2 Screws (P) 3 Screws (Q) FP6402 (Flex) HDMI FPC Main Heat Radiation Board
			FP6001 (Flex) FP6003 (Flex) PP6006 (Connector) PS7001 (Connector)
		(Fig. D13)	ESD FPC Front FPC
11	Flash P.C.B.	(Fig. D14)	2 Screws (R) Bottom Frame Unit
12	Fan Motor	(Fig. D15)	1 Screw (S) Fan Frame Fan Damper
13	LCD Case T Unit	(Fig. D16)	2 Screws (T)
			2 Screws (U)
		(Fig. D18)	6 Locking Tabs FP901 (Flex) FP902 (Flex) Side Case R Unit

No.	Item	Fig.	Removal
14	Monitor P.C.B.	(Fig. D19)	FP903 (Flex) FP904 (Flex) FP906 (Flex) 3 Ribs LCD Frame
			Reflection Sheet Light Guide Plate
		(Fig. D20)	
			Diffusion Sheet Prism Sheet (B) Prism Sheet (A)
			LGP Holder TP Spacer LCD Case(B) Unit
15	LCD Panel Unit	(Fig. D21)	
16	Front P.C.B.	(Fig. D22)	1 Screw (V) 1 Screw (W) FP6400 (Flex) FP6402 (Flex)
			1 Screw (X)
			4 Screws (Y)
		(Fig. D26)	4 Hooks MF Ornament Unit
			3 Hooks Flash
17	Barrier Motor Unit	(Fig. D24)	
18	Barrier Case Unit	(Fig. D25)	8 Hooks
			2 Screws (Z) 1 Screw (a)
		(Fig. D26)	FP801 (Flex) EVF FPC
			3 Locking Tabs EVF Slide Frame EVF Slide Case
			1 Screw (b) FP802 (Flex) 2 Locking Tabs
19	MF Peace / MF Ring / MF Holl Detect FPC / MF Front Case	(Fig. D27)	EVF-LCD Peace LCD
			2 Screws (c)
		(Fig. D32)	1 Locking Tab EYES Cap EVF Case EVF Angle Knob
			EVF Lens (C) EVF Lens Spacer (BC) EVF Lens (B) EVF Lens Spacer (AB) EVF Lens (A)
20	EVF EXT P.C.B.	(Fig. D28)	
21	EVF Lens Holder	(Fig. D33)	5 Screws (d)
			3 Screws (e)
			1 Screw (f)
			1 Screw (g)
			Photo Cushion
		(Fig. D34)	2 Screws (h) 1 Locking Tab
22	TOP Frame	(Fig. D35)	
23	Zoom Operation Unit	(Fig. D36)	3 Screws (e)
			1 Screw (f)
		(Fig. D37)	1 Screw (g)
			Photo Cushion
24	S/S Case Unit	(Fig. D38)	
25	DC Jack P.C.B.	(Fig. D39)	2 Locking Tabs S/S Button
			1 Screw (i)
		(Fig. D40)	1 Locking Tab P6801 (Connector)
			DC Battery. Wire

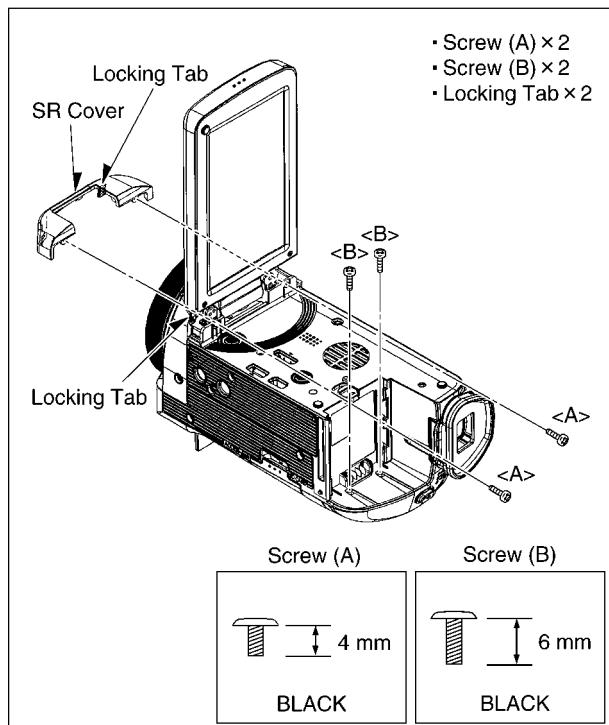
No.	Item	Fig.	Removal
26	Camera Operation Case	(Fig. D41)	4 Locking Tabs 1 Rib FP4804 (Flex) Camera Operation Button Camera Damper Sheet Cam Func FPC Camera Operation Angle
27	MIC AMP P.C.B./Top Case Unit	(Fig. D42)	2 Locking Tabs FP4801 (Flex) FP4803 (Flex) MIC AMP FPC
28	Microphone Unit	(Fig. D43)	MIC Two-Side Tape MIC Cushion (A) MIC Cushion (B) MIC Cushion (C) MIC Case
29	MOS Unit	(Fig. D44)	2 Screws (j) Optical Filter
30	Stepping Motor	(Fig. D45)	2 Screws (k)

NOTE:

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

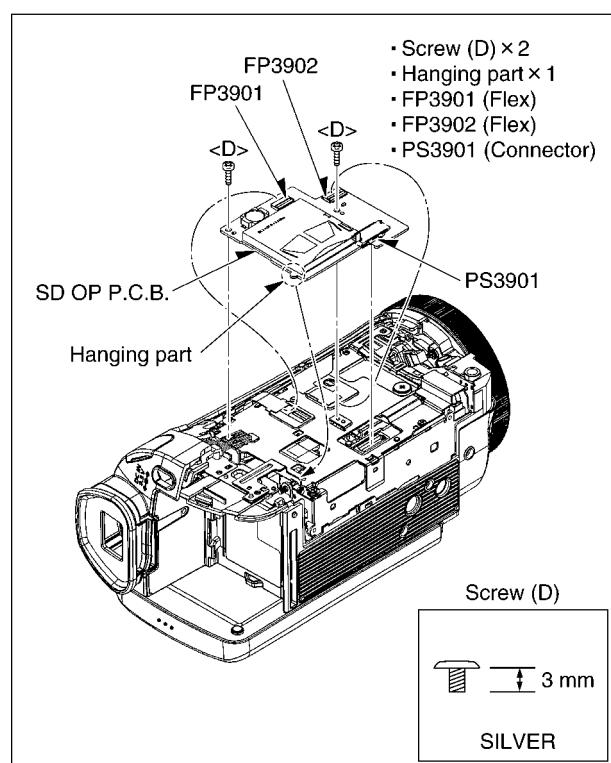


8.3.1. Removal of the Side Case (L) Unit



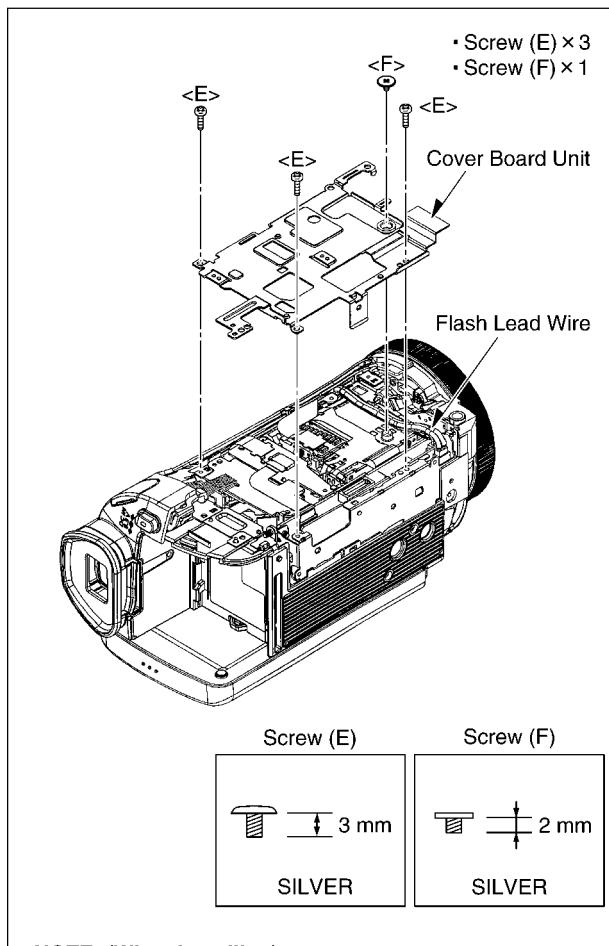
(Fig. D1)

8.3.2. Removal of the SD OP P.C.B.



(Fig. D3)

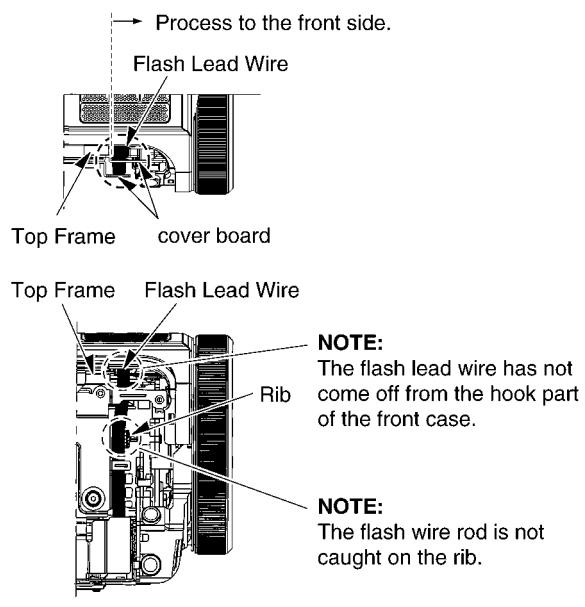
8.3.3. Removal of the Cover Board Unit



NOTE: (When installing)

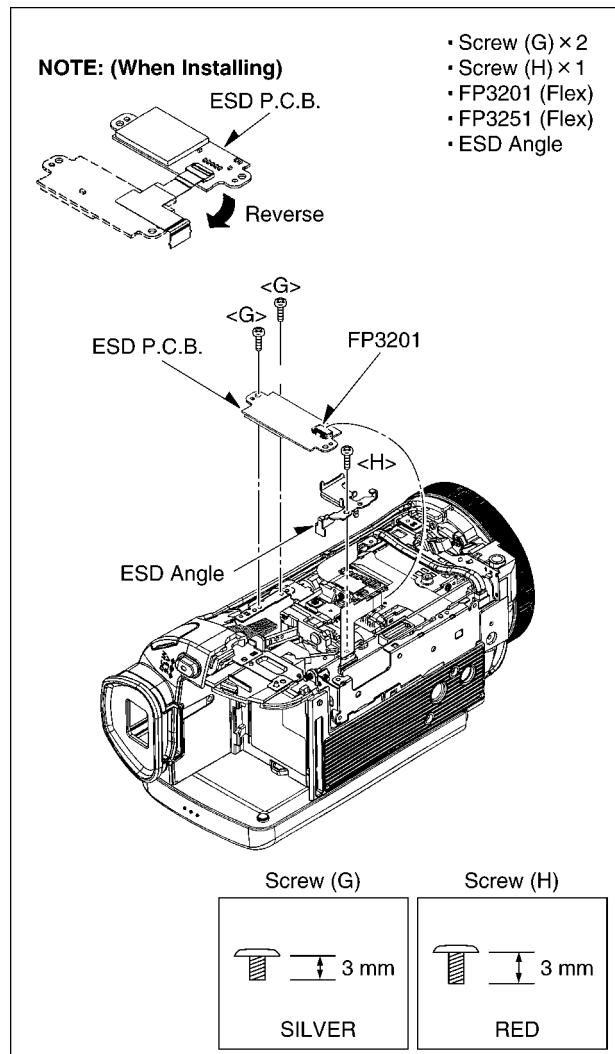
Process the flash lead wire from the plate bending part of the cover board at the front side.

And, keep the cover board and the top frame from biting. Process the flash lead wire under the cover board (lens side).



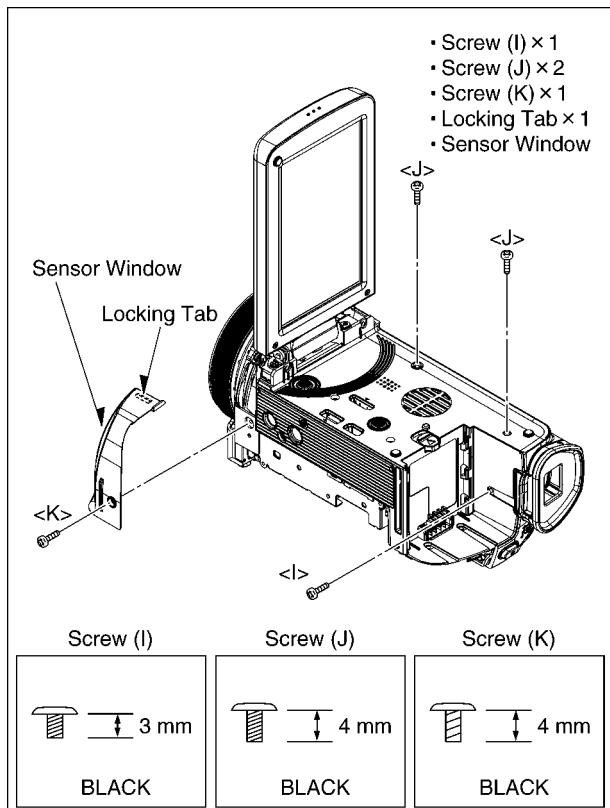
(Fig. D4)

8.3.4. Removal of the ESD P.C.B. (HC-X900M only)

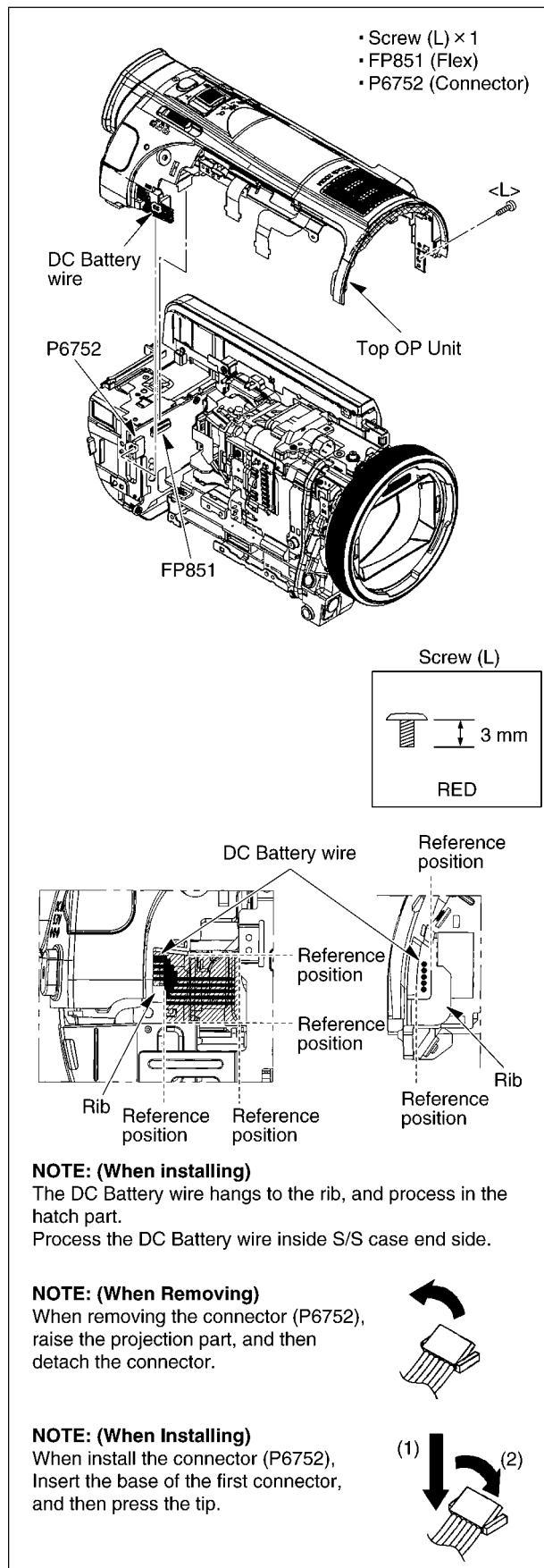


(Fig. D5)

8.3.5. Removal of the Top OP Unit

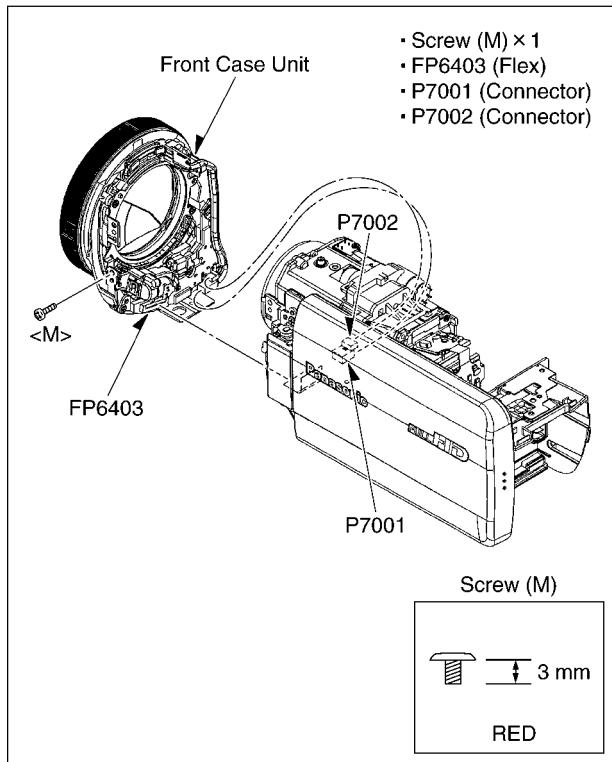


(Fig. D6)



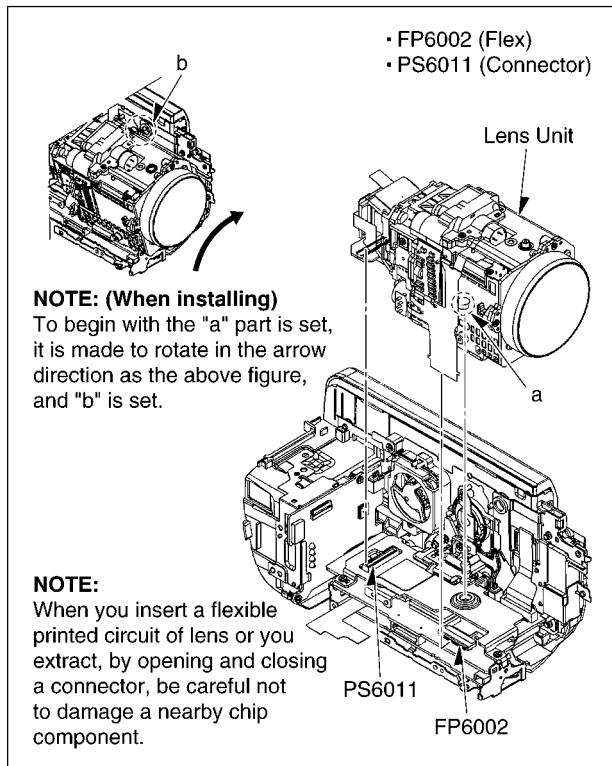
(Fig. D7)

8.3.6. Removal of the Front Case Unit



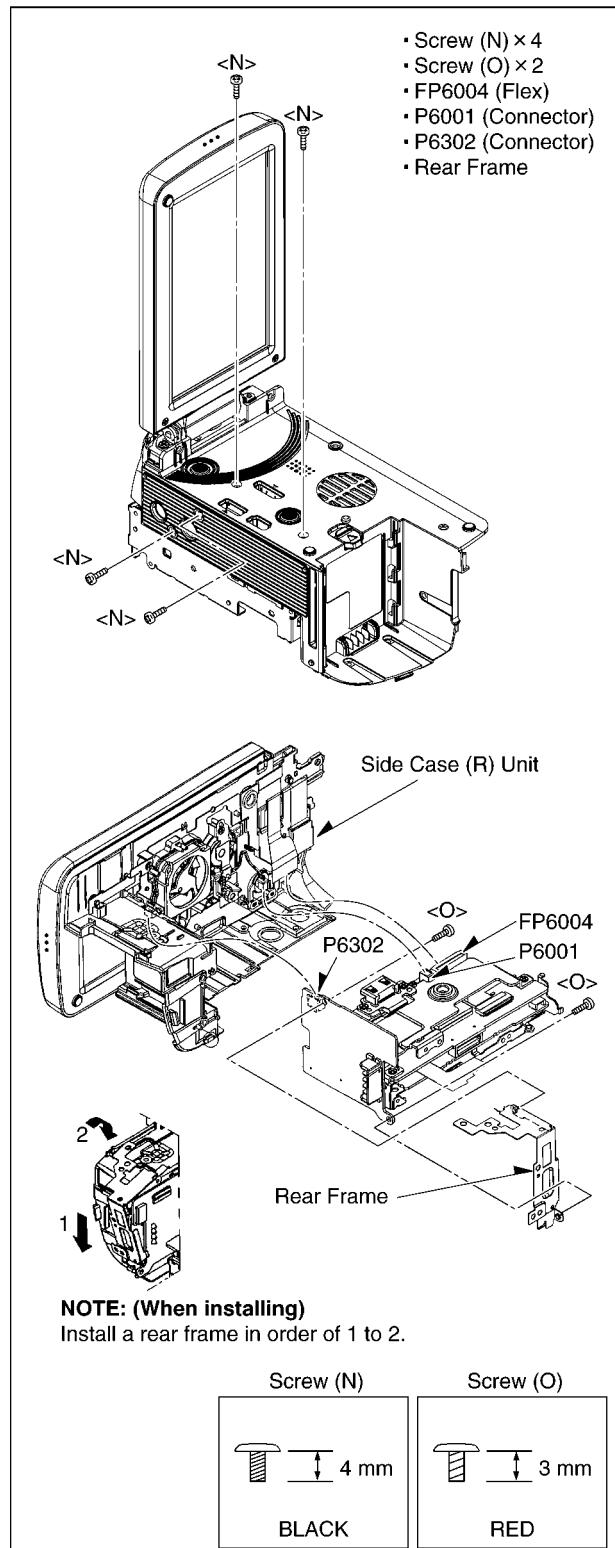
(Fig. D8)

8.3.7. Removal of the Lens Unit



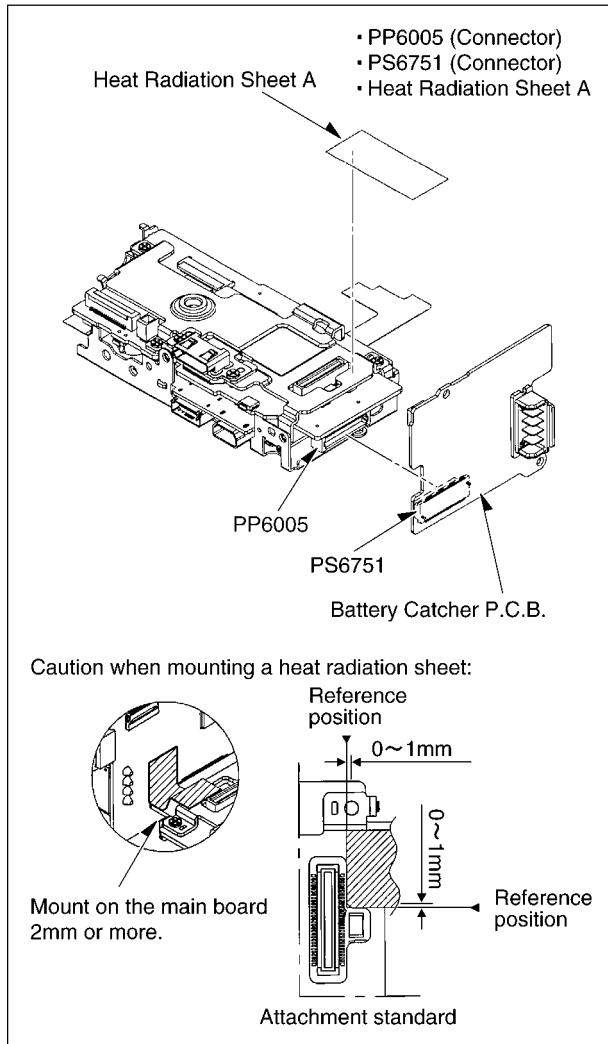
(Fig. D9)

8.3.8. Removal of the Side Case (R) Unit



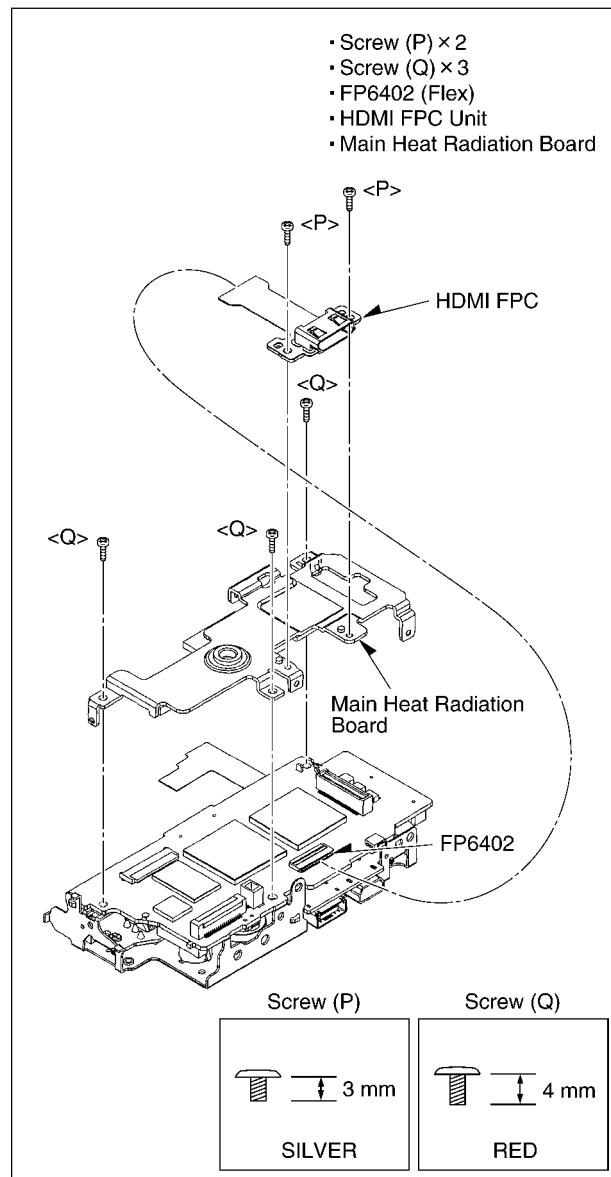
(Fig. D10)

8.3.9. Removal of the Battery Catcher P.C.B.



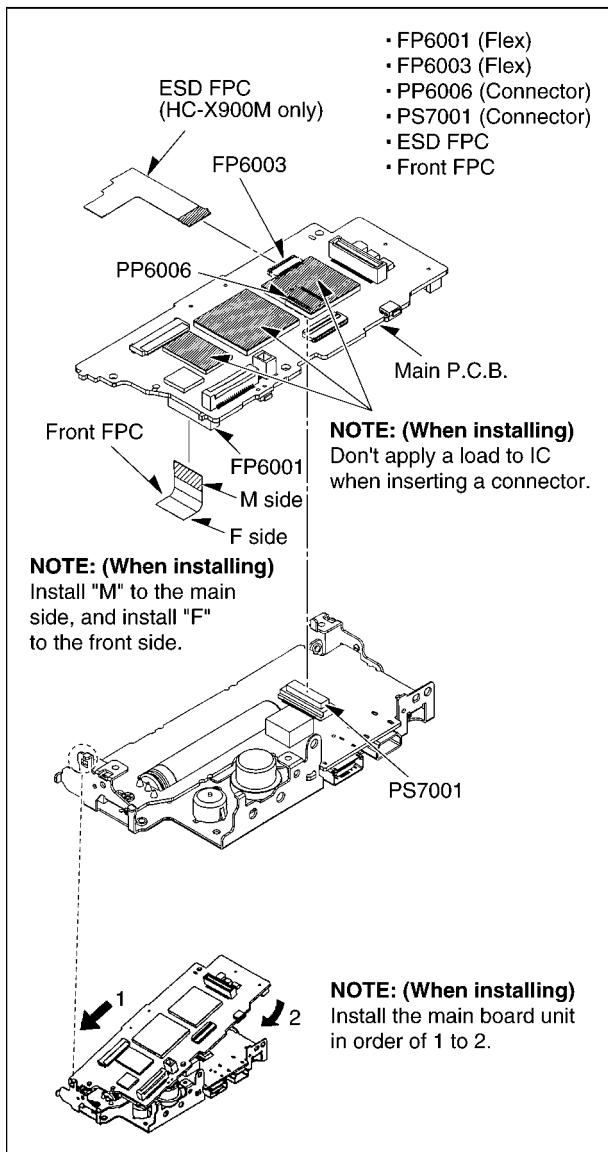
(Fig. D11)

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

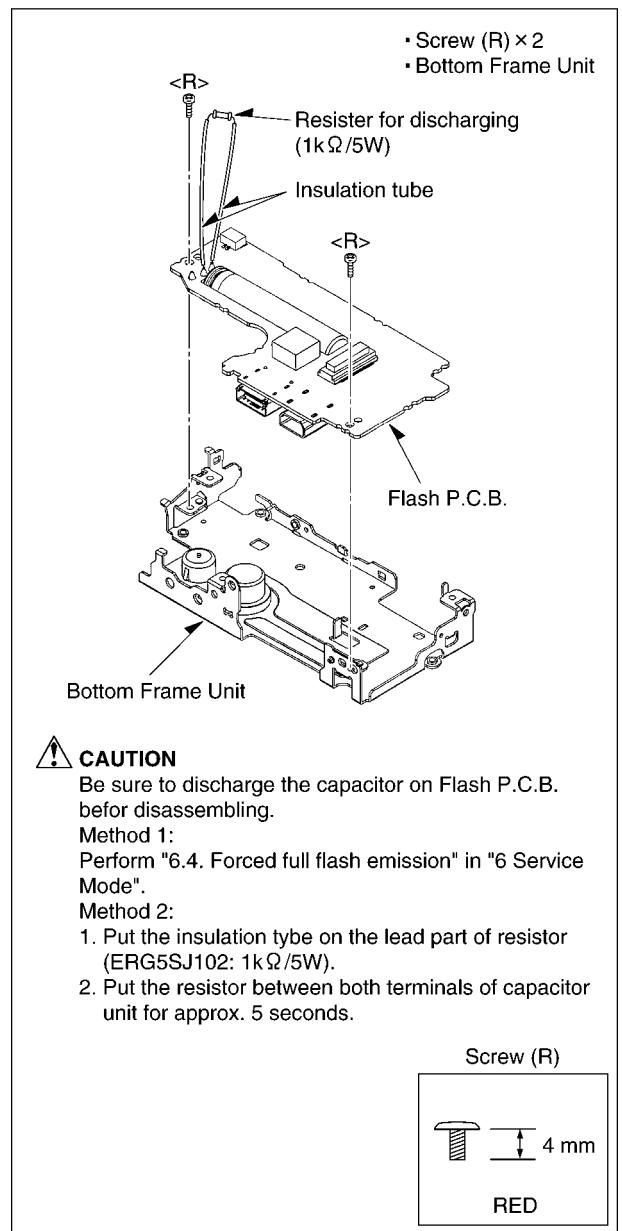


(Fig. D12)

8.3.11. Removal of the Flash P.C.B.

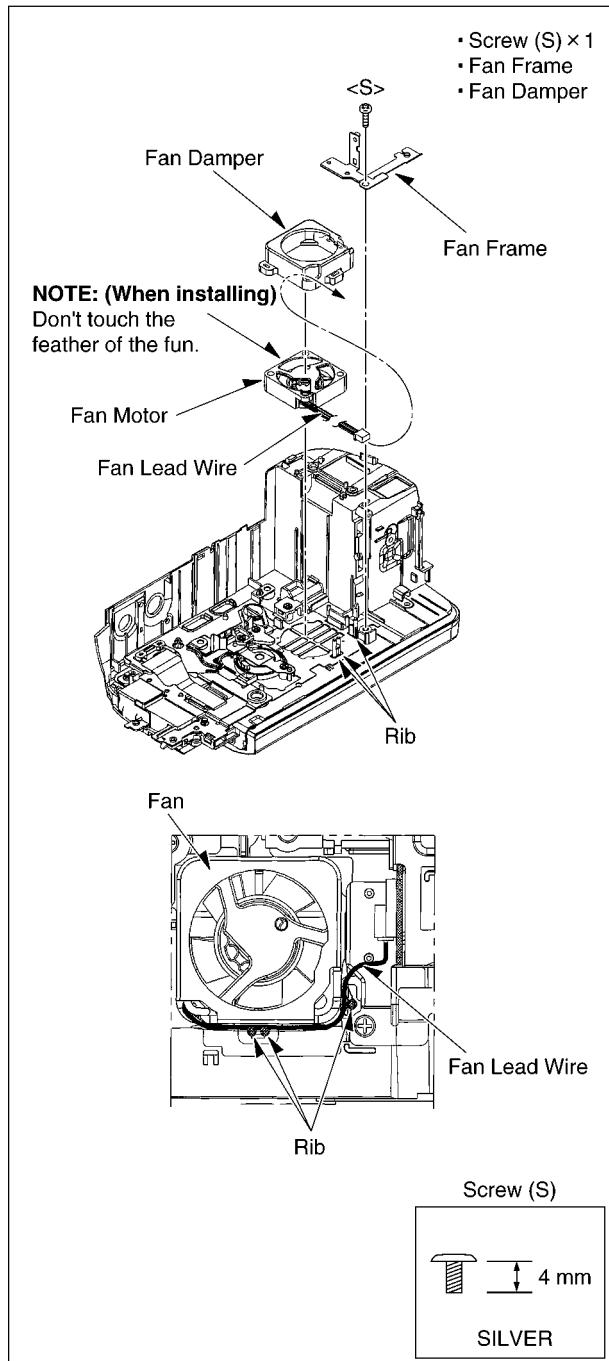


(Fig. D13)



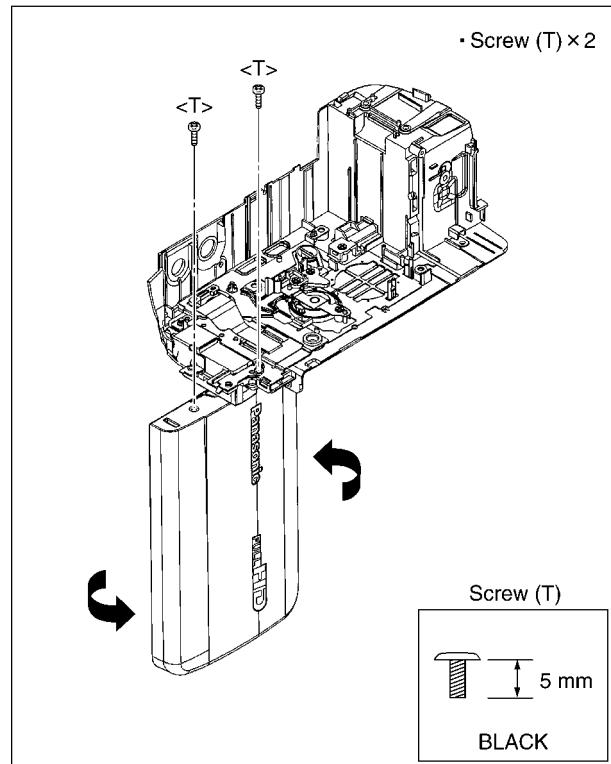
(Fig. D14)

8.3.12. Removal of the Fan Motor

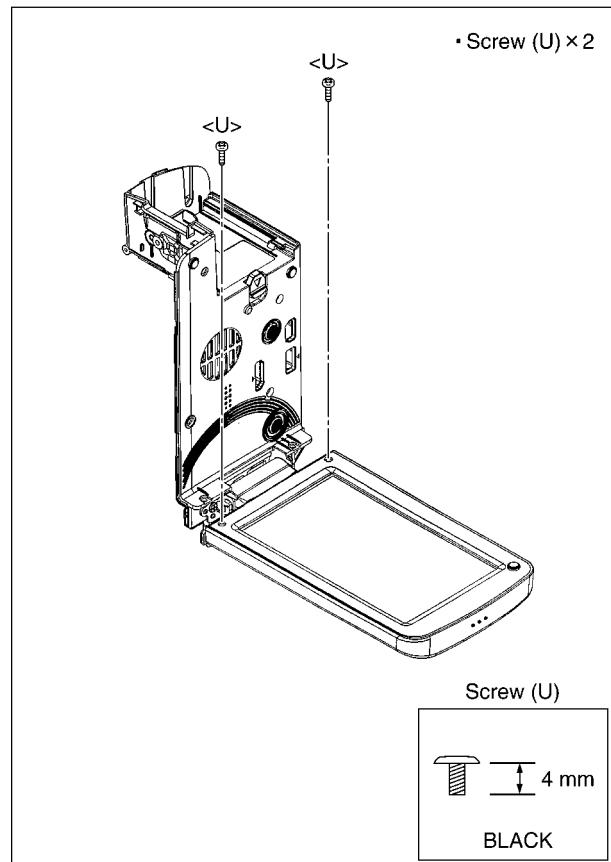


(Fig. D15)

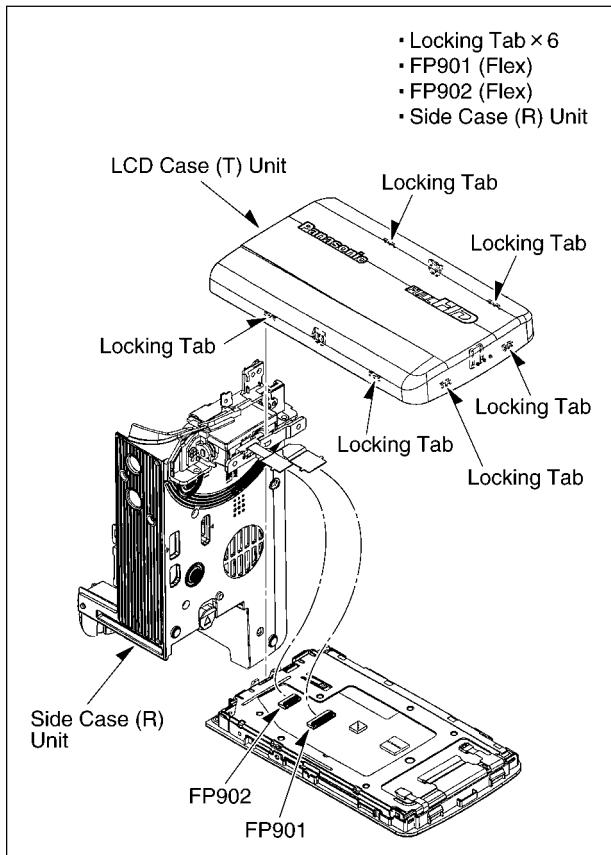
8.3.13. Removal of the LCD Case (T) Unit



(Fig. D16)

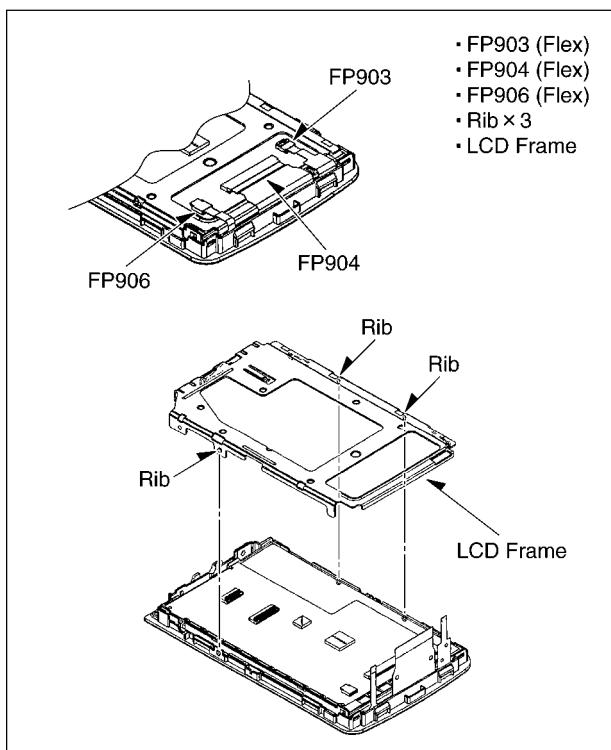


(Fig. D17)

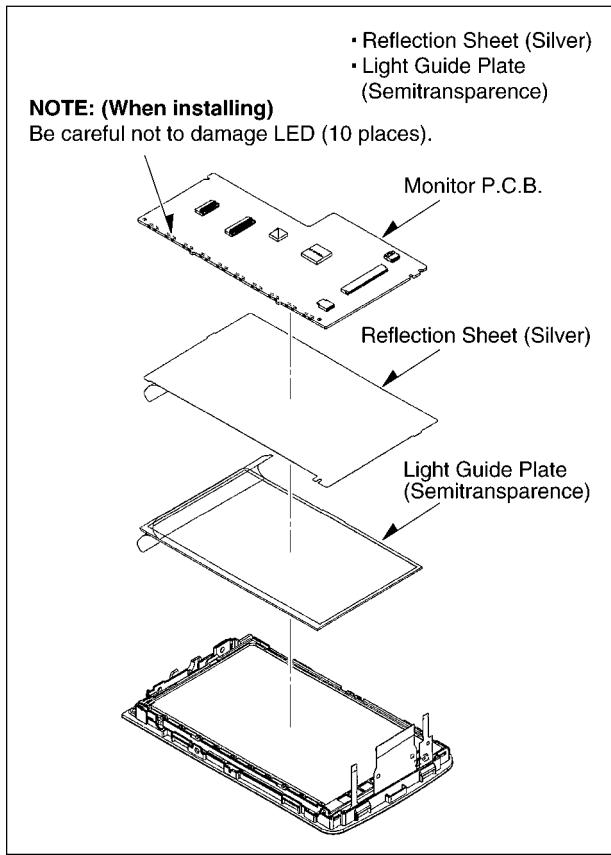


(Fig. D18)

8.3.14. Removal of the Monitor P.C.B.

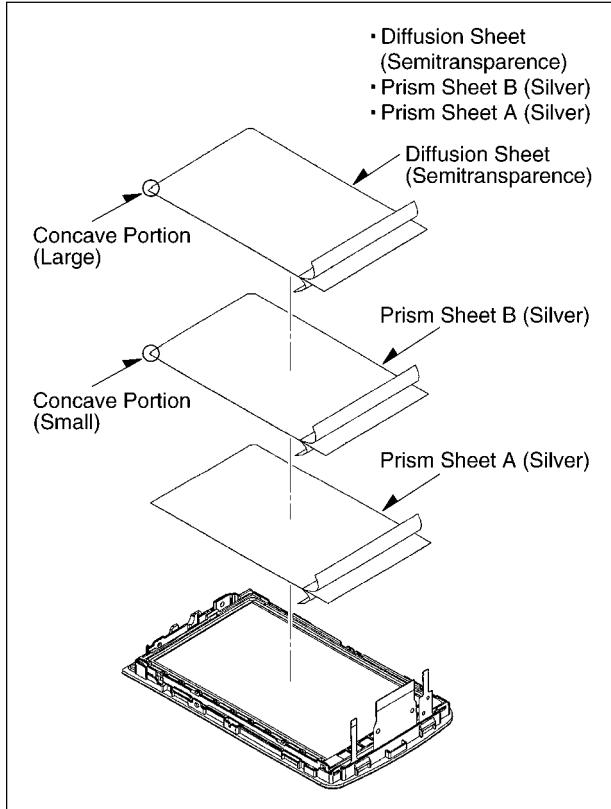


(Fig. D19)



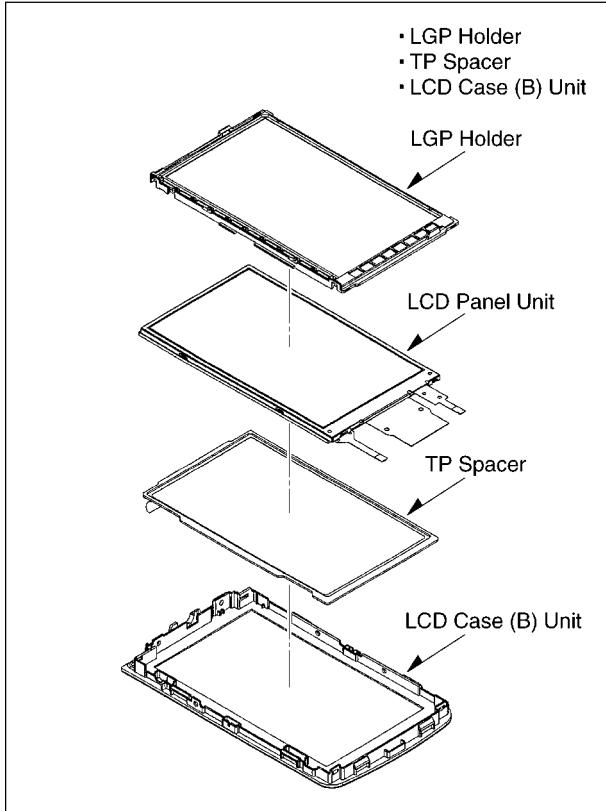
(Fig. D20)

8.3.15. Removal of the LCD Panel Unit



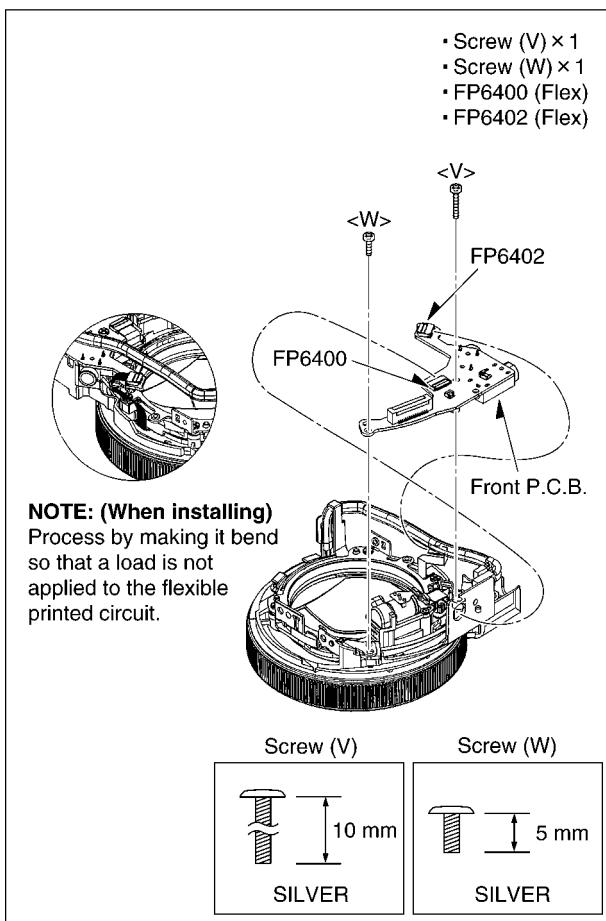
(Fig. D21)

8.3.17. Removal of the Barrier Motor Unit

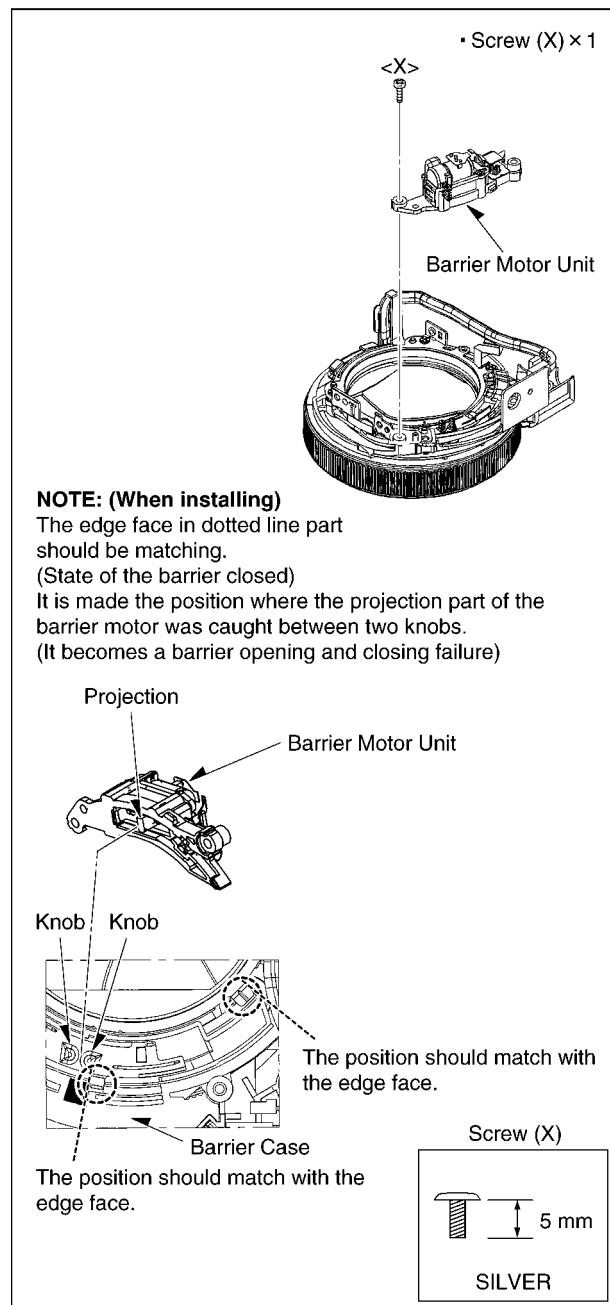


(Fig. D22)

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

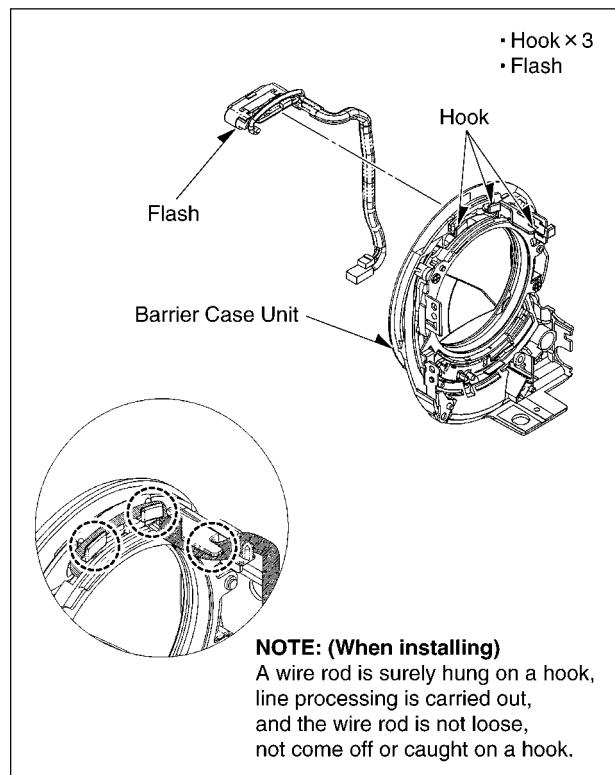
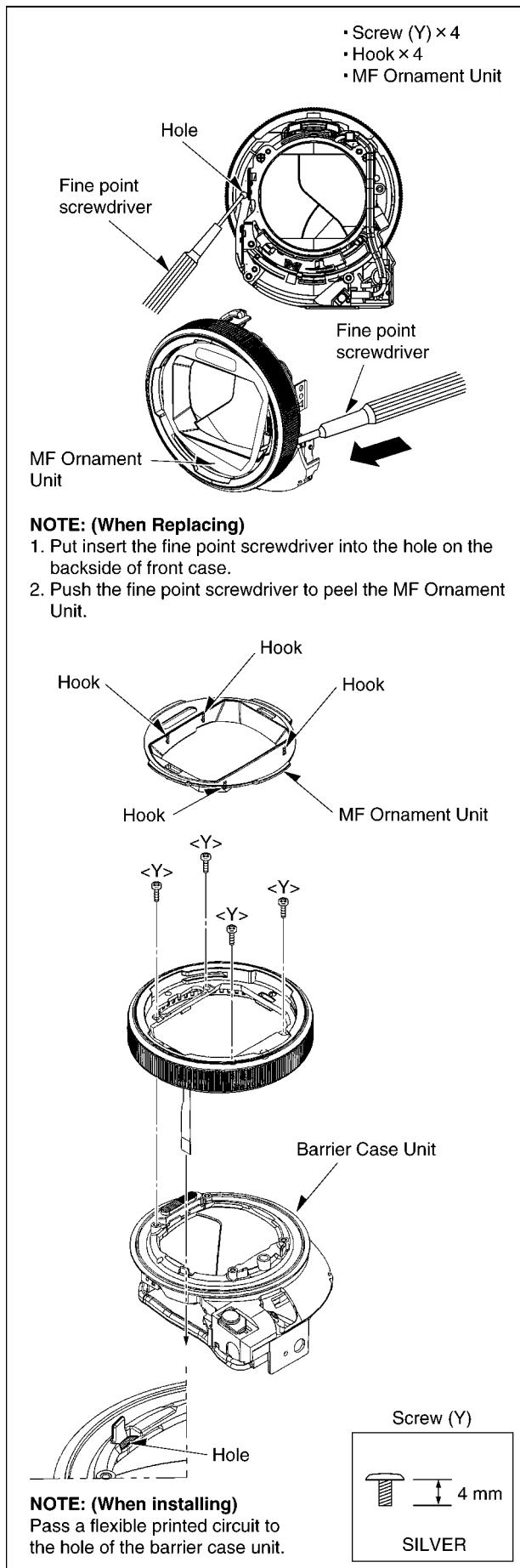


(Fig. D23)



(Fig. D24)

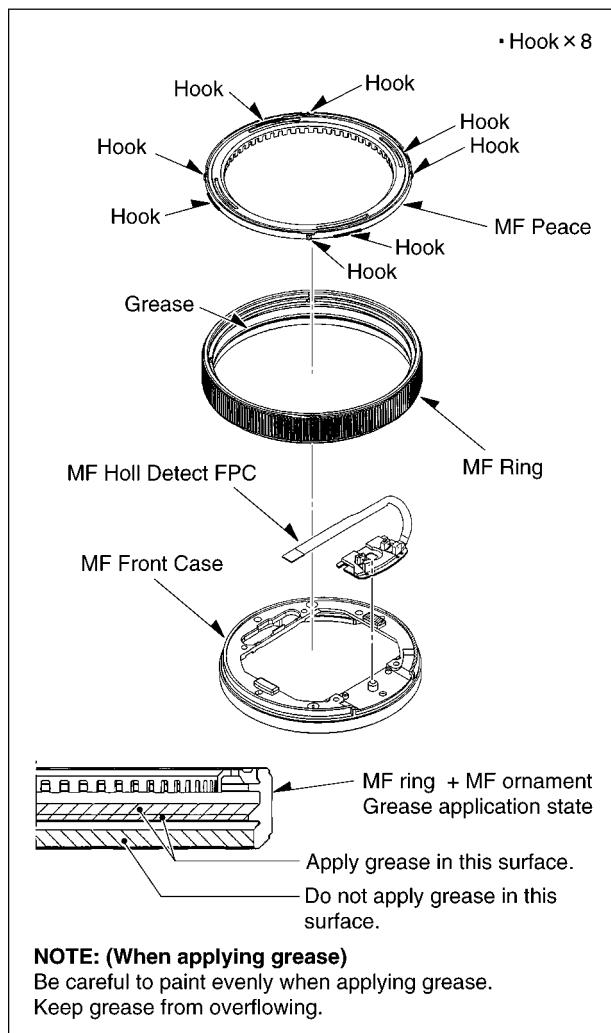
8.3.18. Removal of the Barrier Case Unit



(Fig. D26)

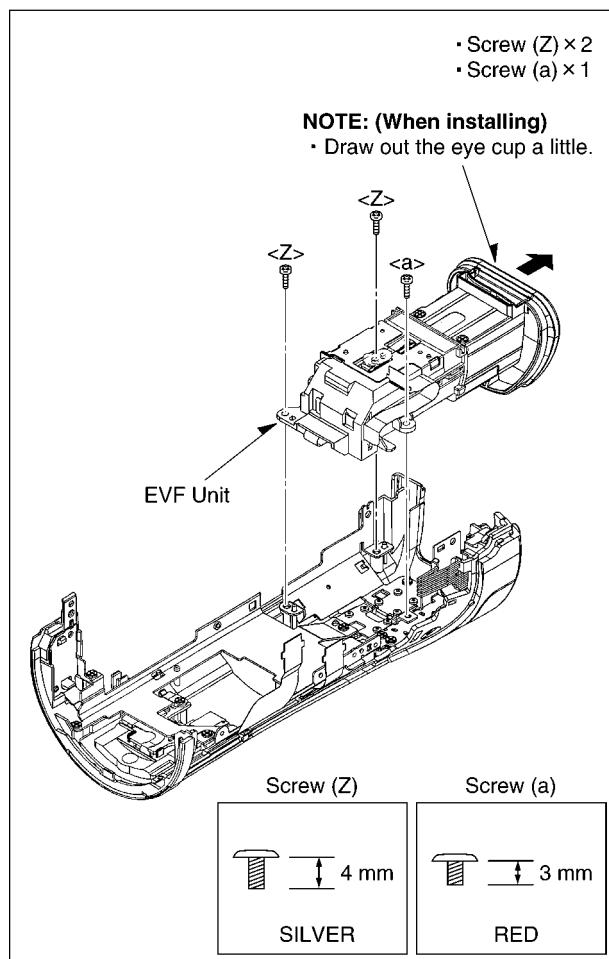
(Fig. D25)

8.3.19. Removal of the MF Peace / MF Ring / MF Holl Detect FPC / MF Front Case

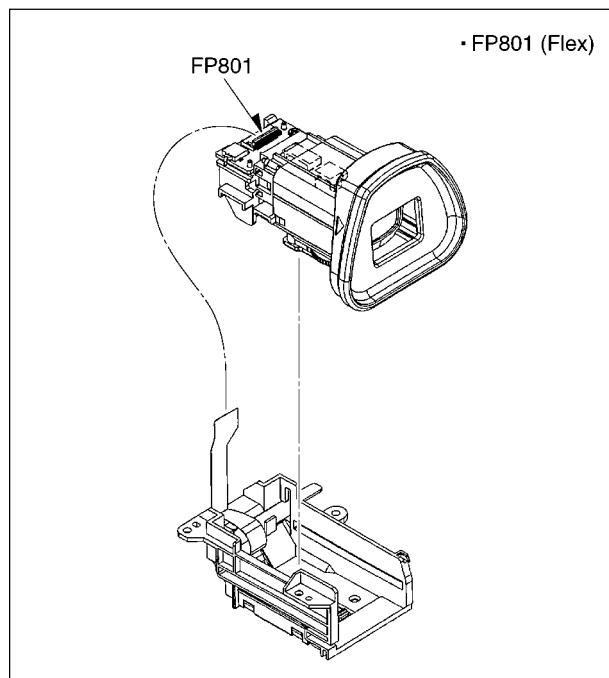


(Fig. D27)

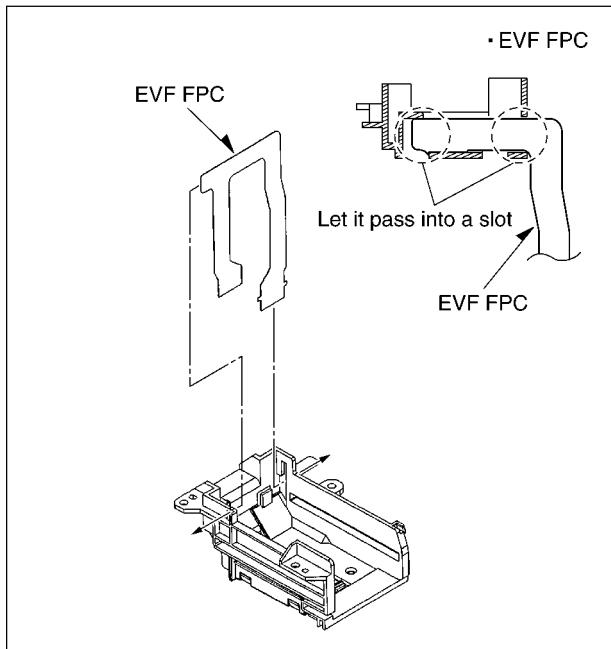
8.3.20. Removal of the EVF EXT P.C.B.



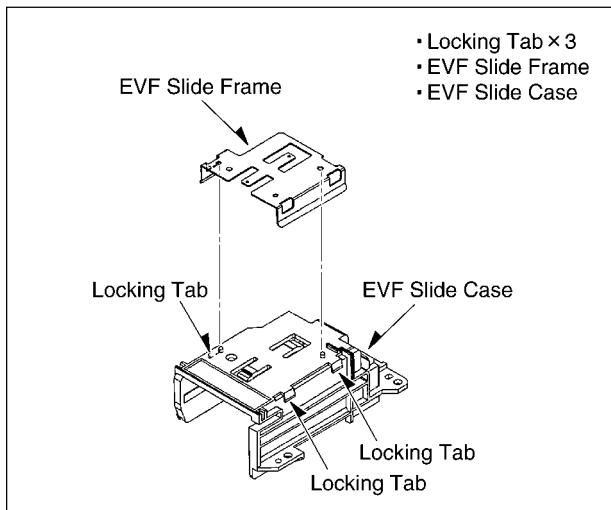
(Fig. D28)



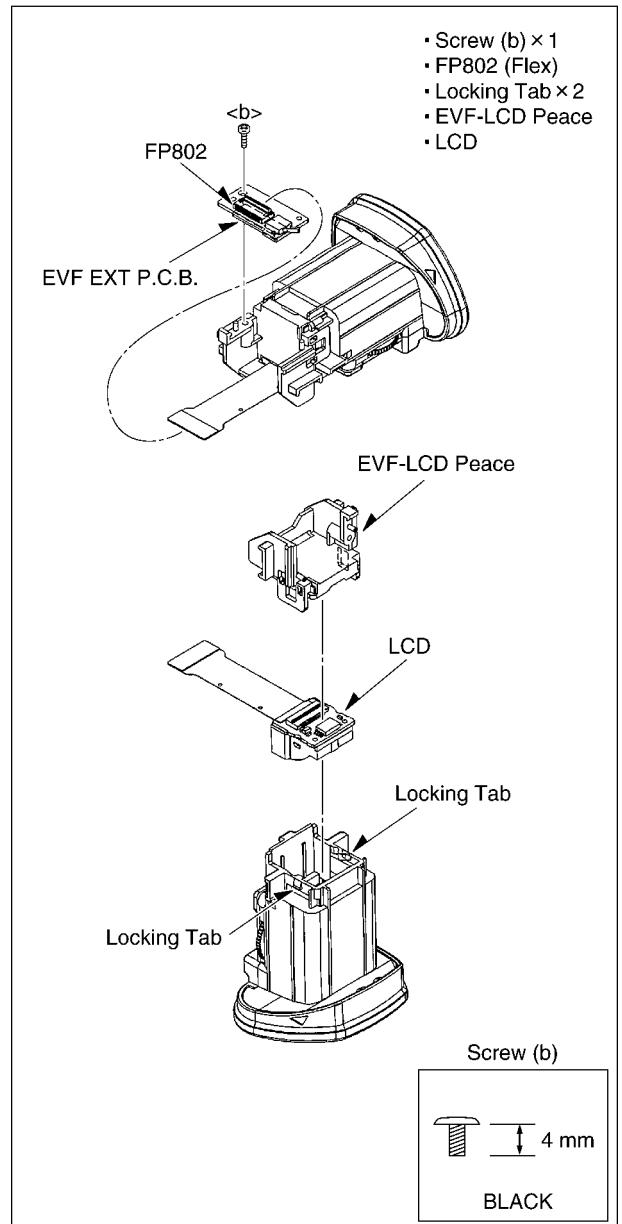
(Fig. D29)



(Fig. D30)

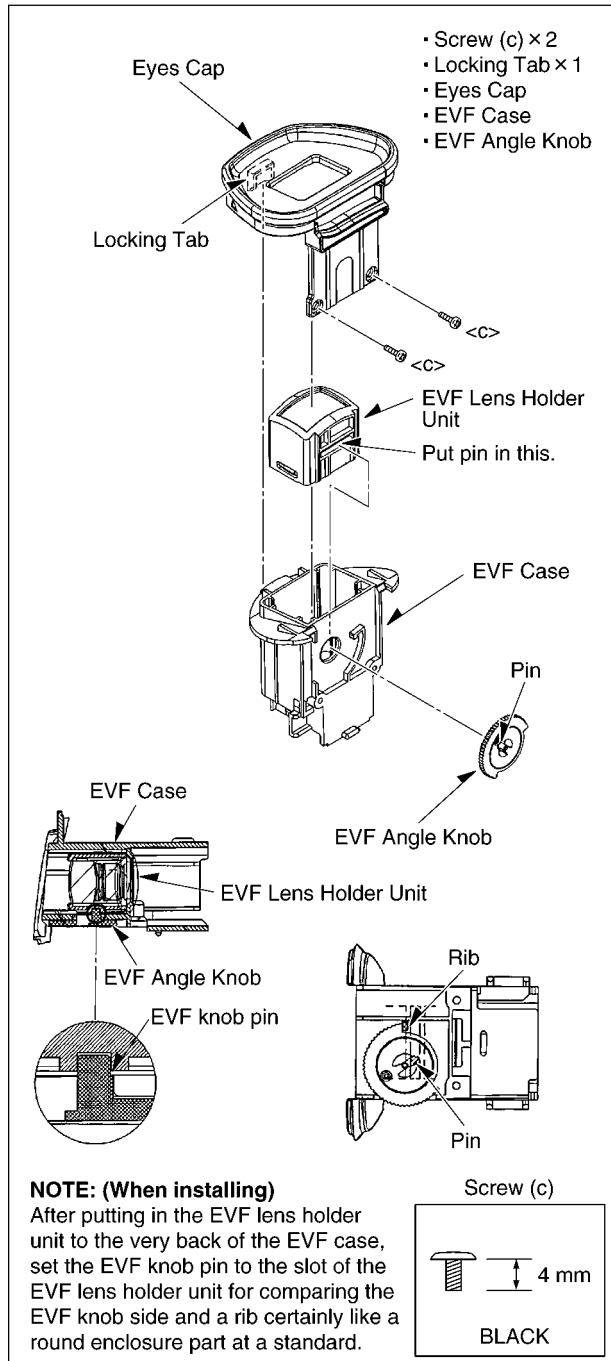


(Fig. D31)

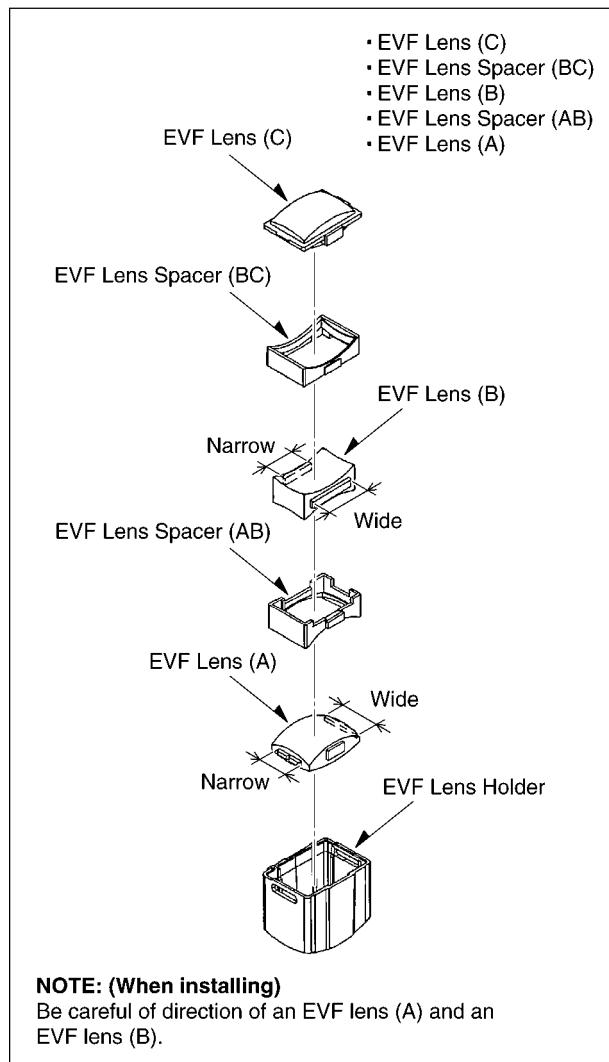


(Fig. D32)

8.3.21. Removal of the EVF Lens Holder Unit

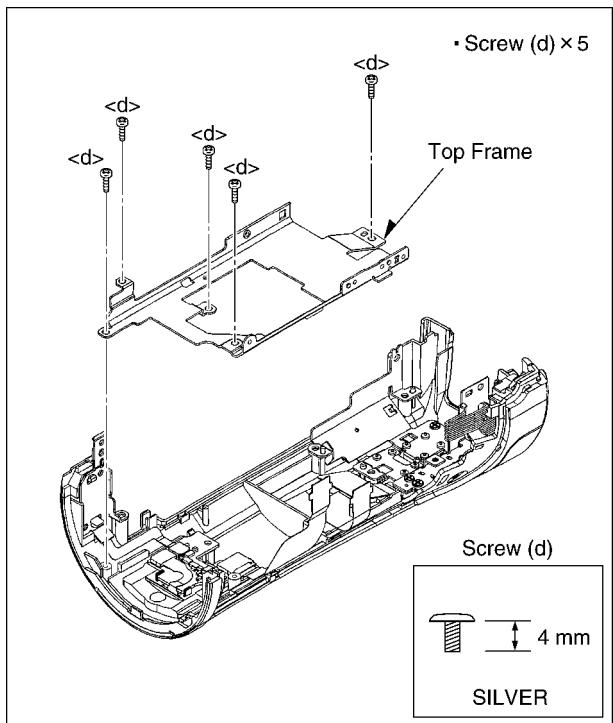


(Fig. D33)



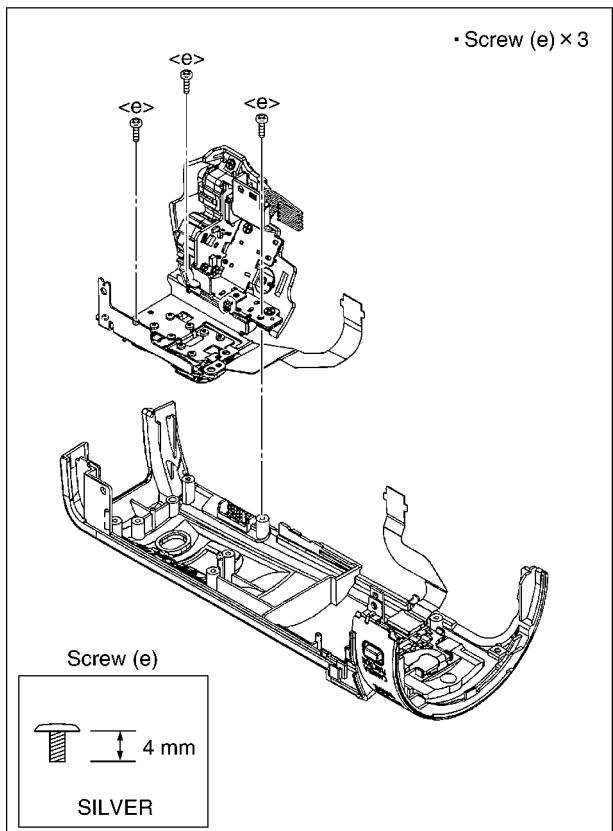
(Fig. D34)

8.3.22. Removal of the Top Frame



(Fig. D35)

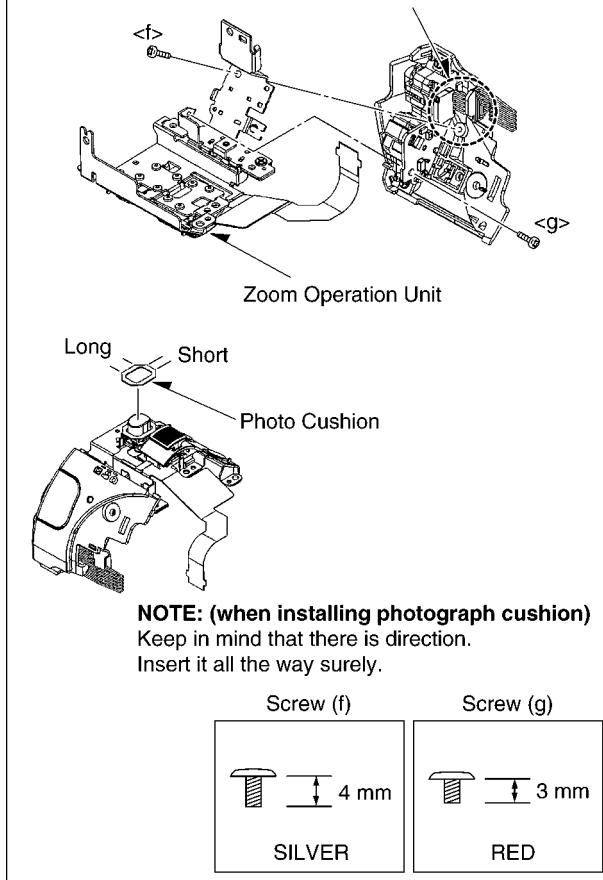
8.3.23. Removal of the Zoom Operation Unit



(Fig. D36)

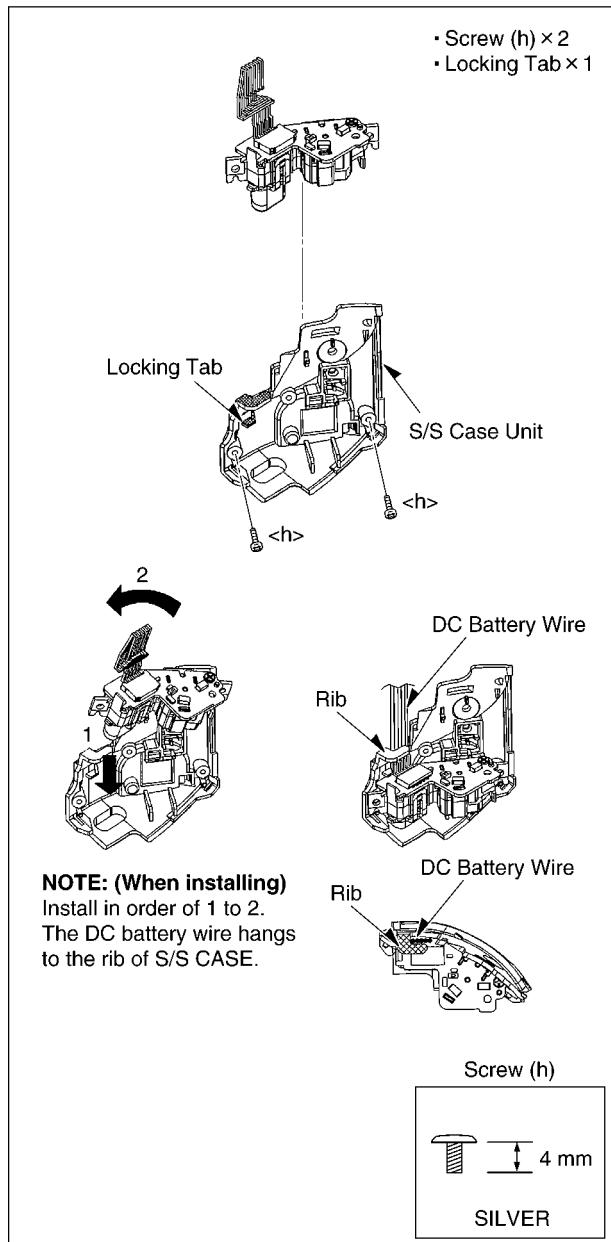
- Screw (f) × 1
- Screw (g) × 1
- Photo Cushion

NOTE: (When installing)
Keep the zoom operation unit and the line from biting.



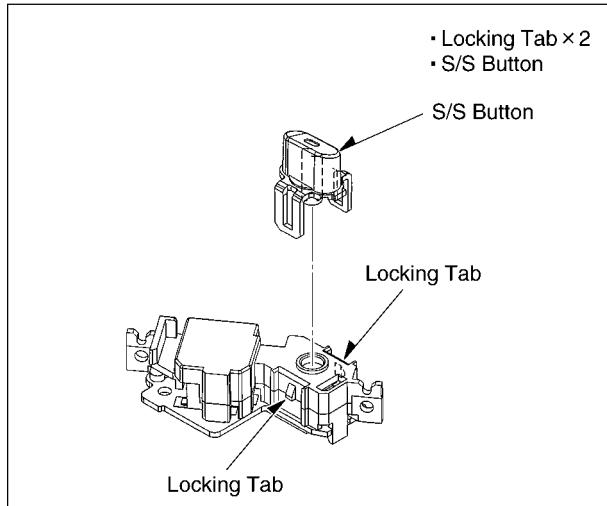
(Fig. D37)

8.3.24. Removal of the S/S Case Unit

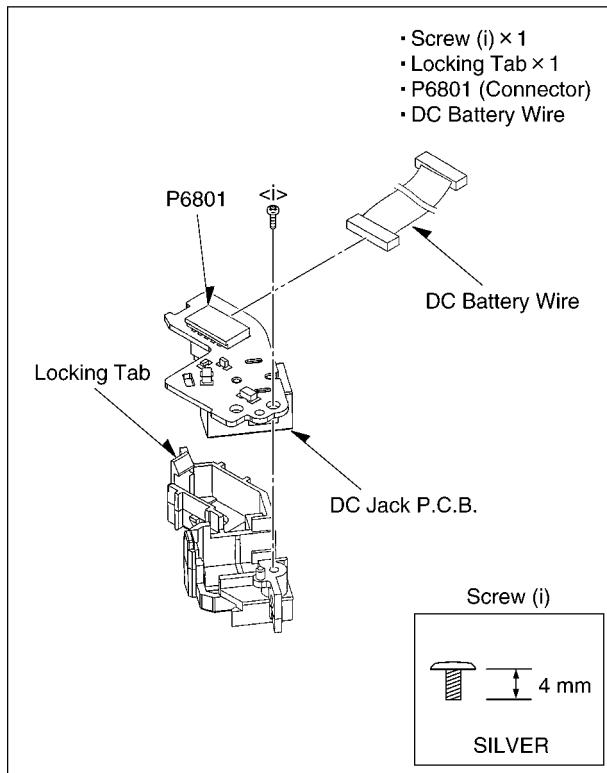


(Fig. D38)

8.3.25. Removal of the DC Jack P.C.B.

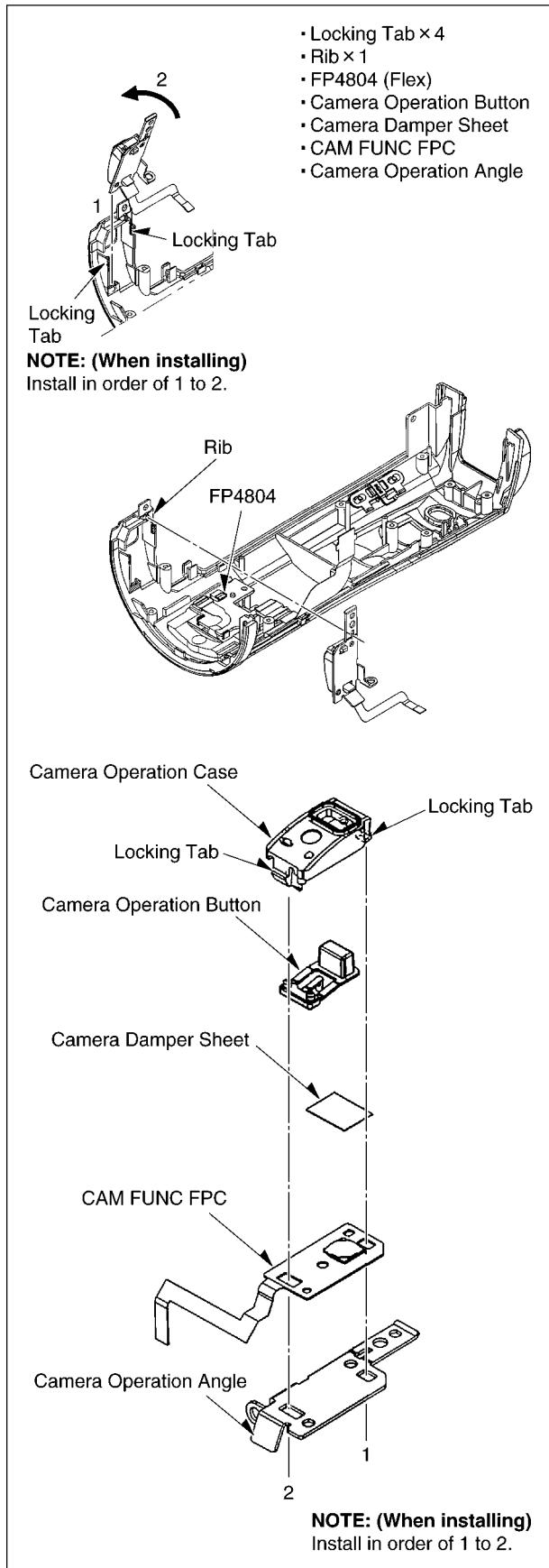


(Fig. D39)



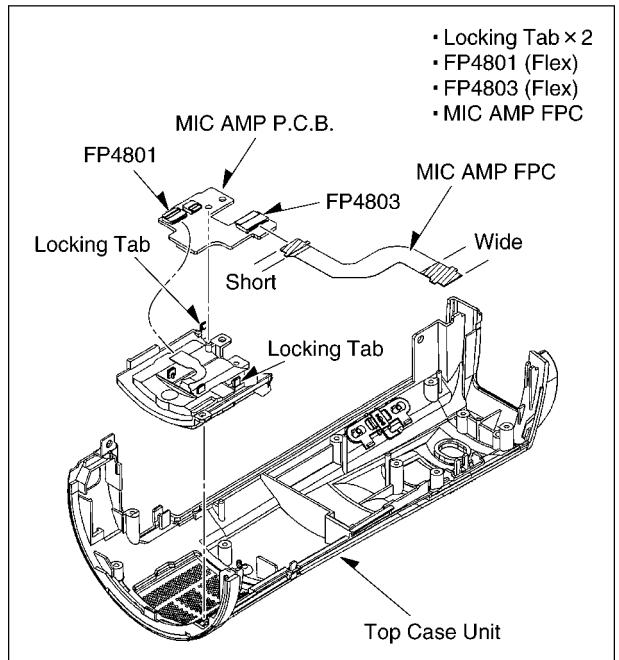
(Fig. D40)

8.3.26. Removal of the Camera Operation Case



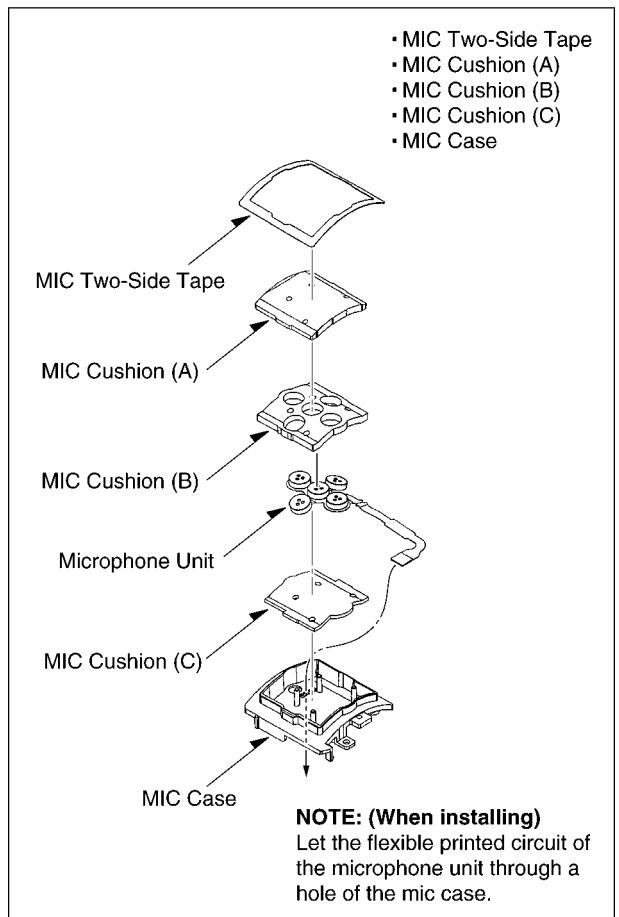
(Fig. D41)

8.3.27. Removal of the MIC AMP P.C.B. / Top Case Unit



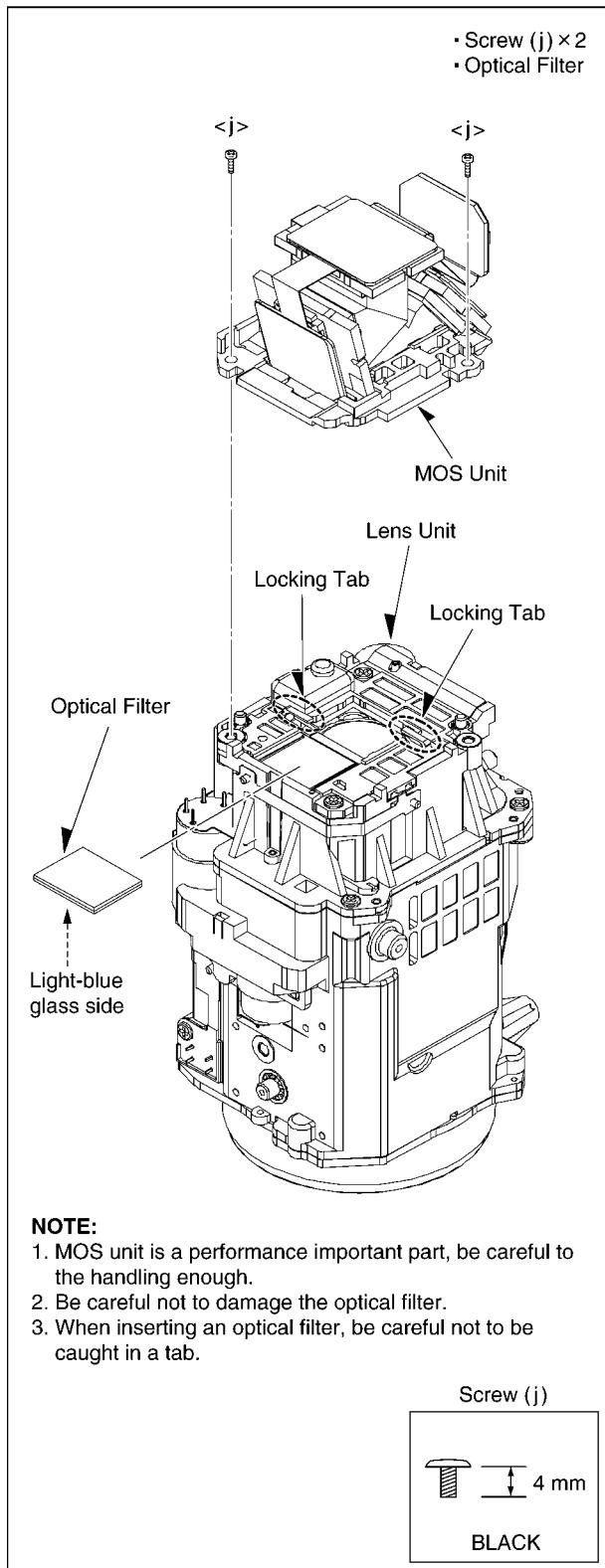
(Fig. D42)

8.3.28. Removal of the Microphone Unit



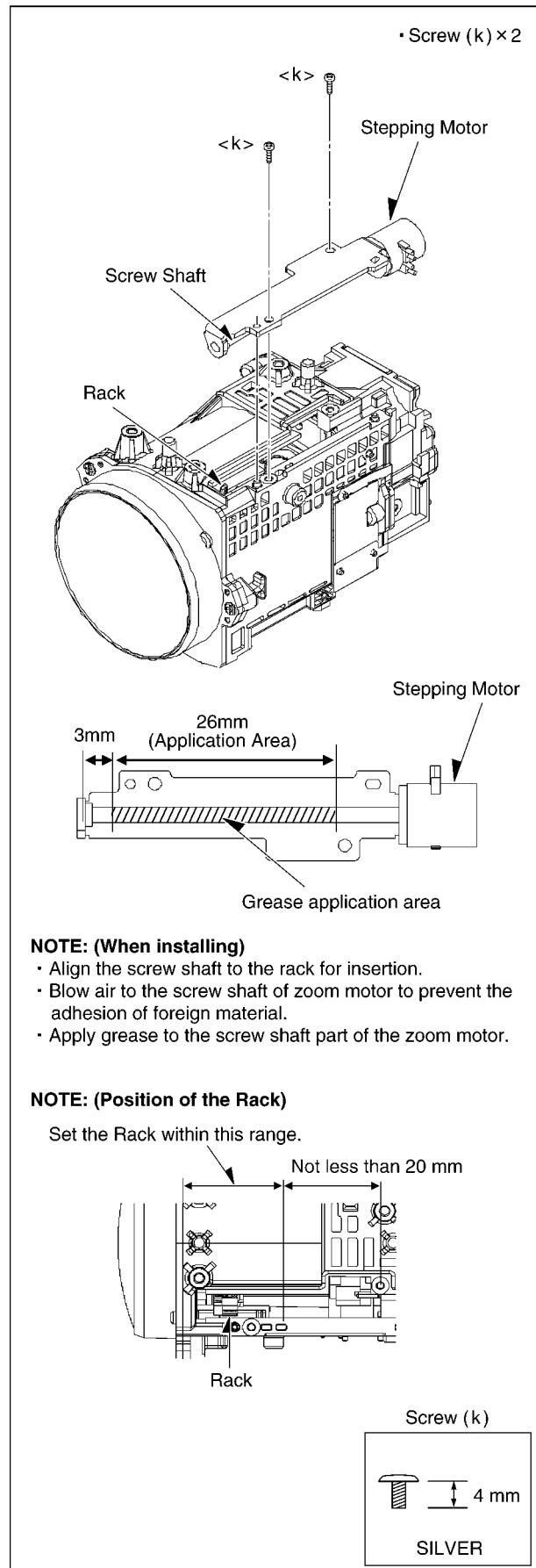
(Fig. D43)

8.3.29. Removal of the MOS Unit



(Fig. D44)

8.3.30. Removal of the Stepping Motor



(Fig. D45)

9 Measurements and Adjustments

9.1. Electric Adjustment

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

9.1.1. Adjustment Procedure

- Connect the main unit to PC with USB.

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

Figure of connection

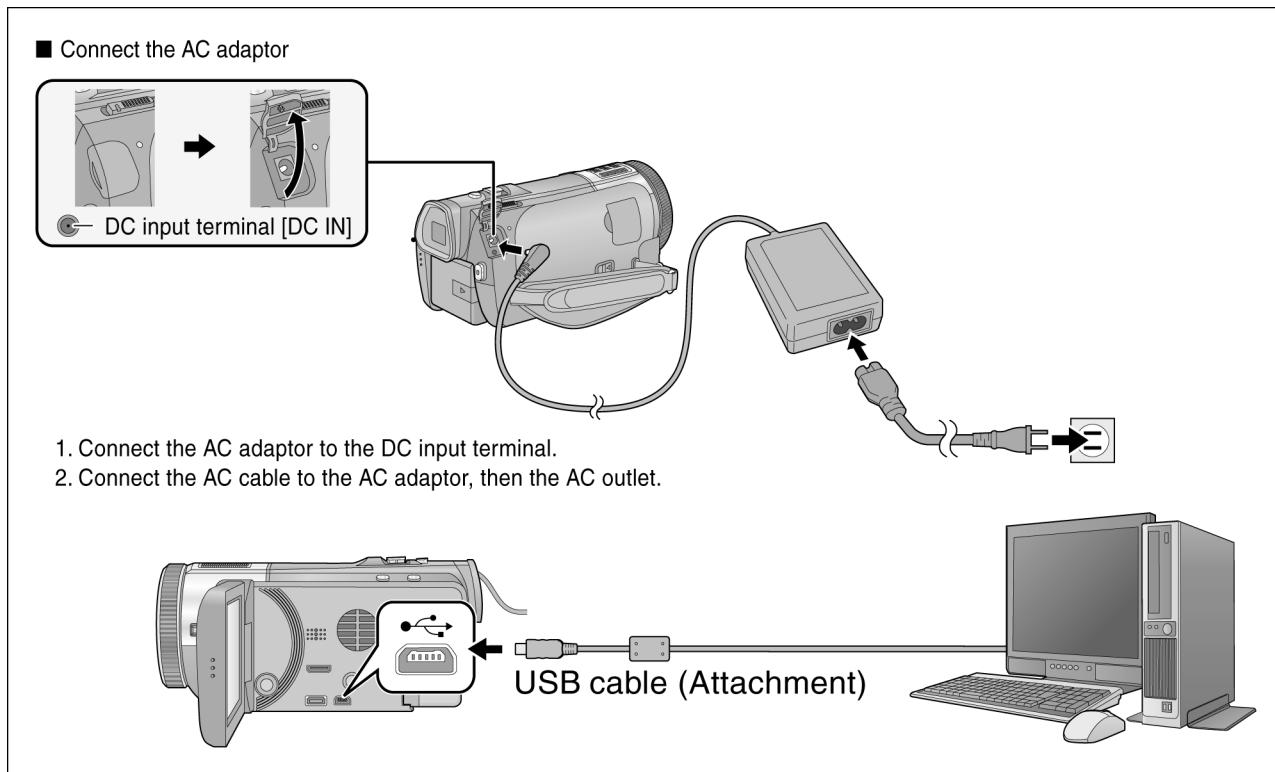
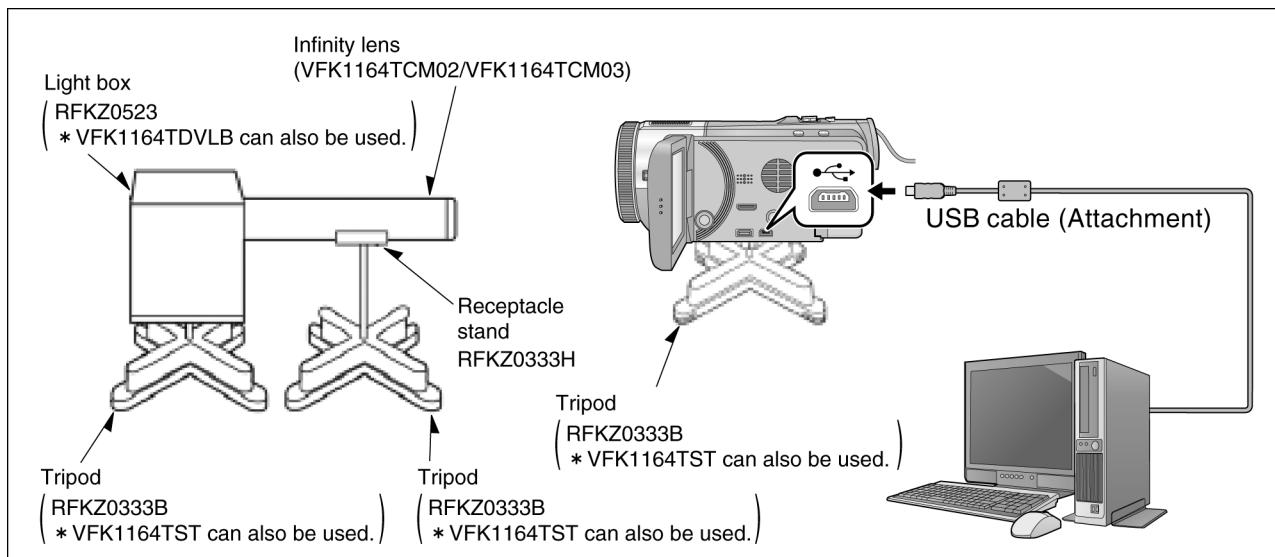


Figure of image when adjustment



Part Number of jig

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

No.	Part Name	Part Number	Remarks
1	PC	-----	
2	AC Adaptor	-----	
3	USB Cable	-----	
5	Adjustment Software (Tatsujin)	-----	
6	C4 Filter	VFK1164LBB4	The same as C12 Filter(VFK1164LBB12)
7	C8 Filter	VFK1164LBB8	
8	ND Filter 0.1	VFK1164ND01	
9	ND Filter 0.6	VFK1164ND06	

Adjustment Items

- Adjustment item as follows.

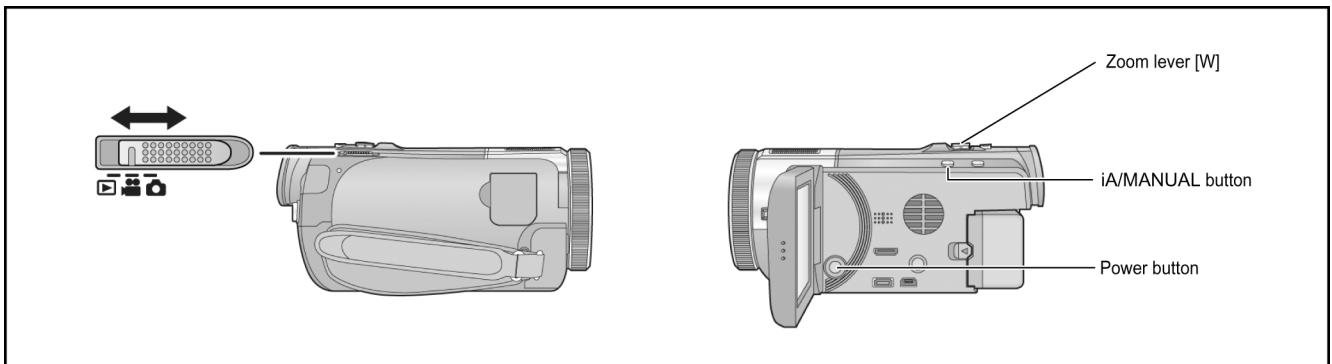
The adjustment instruction is available at "Software download" on the "Support Information from NWBG/VDBG-AVC" web-site in "TSN System".

	Adjustment item	Replacement part		Main P.C.B.	IC3403 (FLASH ROM)	Lens Unit	MOS Unit	IC701	IC6301 IC6351
Camera Part	●CAM IRIS (automatic)	<input type="radio"/>							
	●CAM OIS G sensor (automatic)	<input type="radio"/>							
	●CAM Tracking & De-focus (automatic)	<input type="radio"/>							
	●CAM Flaw correction of MOS sensor (automatic)	<input type="radio"/>							
	●CAM AWB 3100 (automatic)	<input type="radio"/>							
	●CAM AWB 5100 (automatic)	<input type="radio"/>							
	●CAM Gain among Channels (automatic)	<input type="radio"/>							

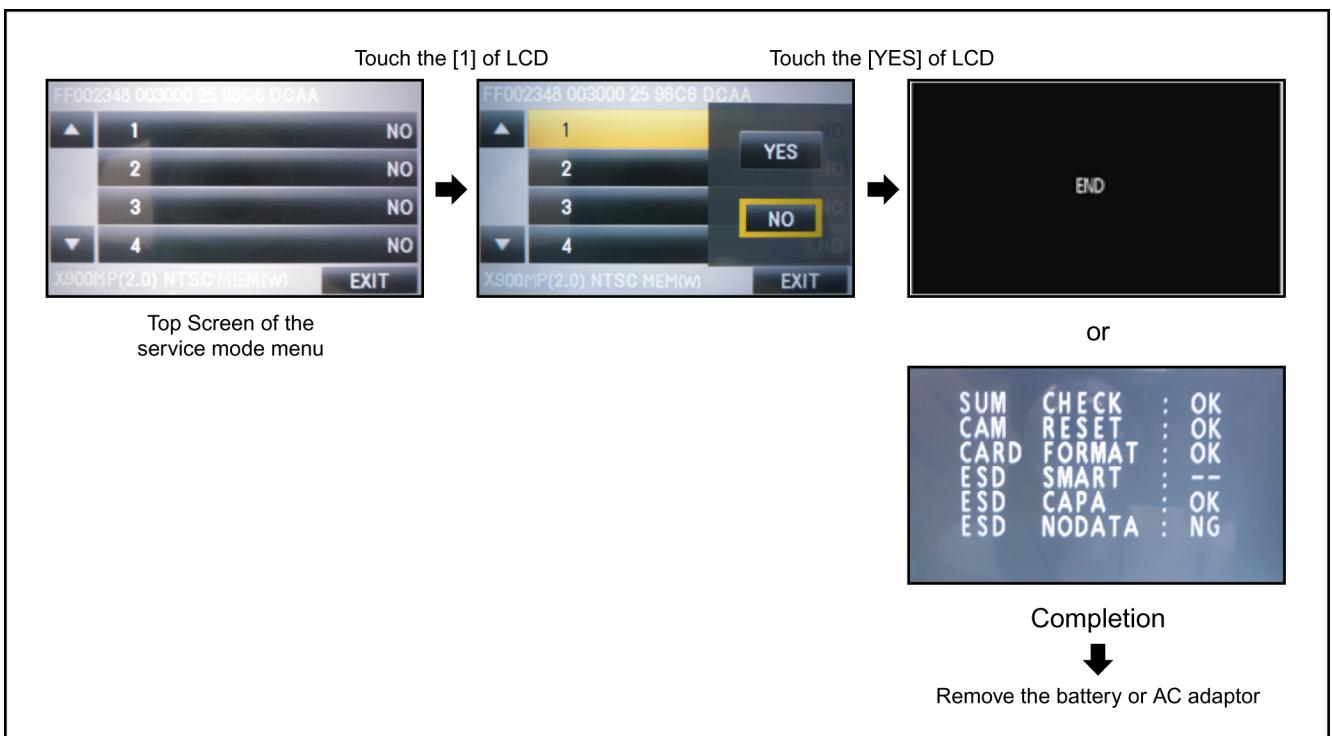
10 Factory Setting

10.1. How To Turn On The Factory Settings?

1. Set the mode switch "Motion Picture Recording" mode.
2. While the power is turned OFF, keep pressing the "POWER" button, "Zoom lever" to W side and "iA/Manual" button for more than 3 seconds until the top screen of the Service Mode Menu being displayed.



3. Touch the [1] of LCD.
4. Touch the [YES] of LCD.
5. After few seconds "END" is displayed or "ESD NODATA" as "NG" is displayed on LCD monitor. Cutting of battery connection or AC power supply connection as a completion of the "FACTORY SETTINGS".
(After recording at least once, even if the physical format of the build-in memory will be performed, "ESD NODATA" as "NG" is indicated, but "FACTORY SETTINGS" is completed.)



10.2. What is The Factory Settings?

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

1. MENU, MODE, ADJUSTMENT VALUE.
2. SD card format.
3. Reset the folder number and file number of still pictures.
(Setting the folder number is 100, and file number is 0.)
4. Clear the mechanism lock information.
5. Clear the service mode information contents.
6. Clear the setting date.
7. Close the lens cover.
8. Initialize the VIERA Link Physical Address.
9. Rewriting lock setup of destination information.

(HC-X900M)

If the "Factory Settings" is completed, physical format of the build-in memory is not performed, execute physical format according to the following procedure.

To physically format the built-in memory, connect the unit via the AC adaptor, select [SETUP] → [FORMAT MEDIA] → [Built-inMemory] from the menu, and then press and hold the recording start/stop button on the screen below for about 3 seconds. When the built-in memory data deletion screen appears, select [YES], and then follow the on-screen instructions.

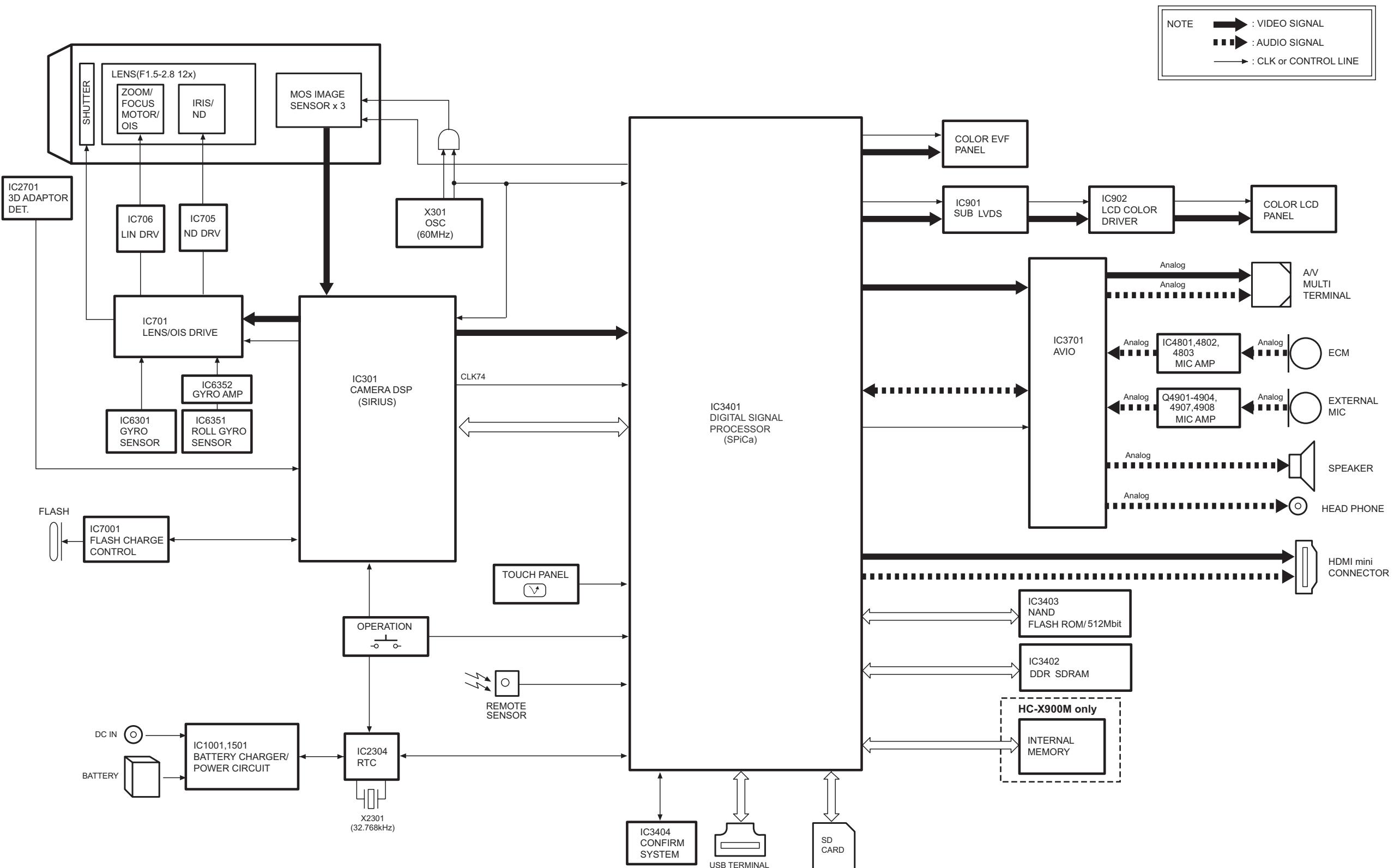


The setting position of factory settings:

Name	Setting position
Mode Switch	Motion Picture Recording Mode
Eyepiece corrector dial	Nearsightedness end

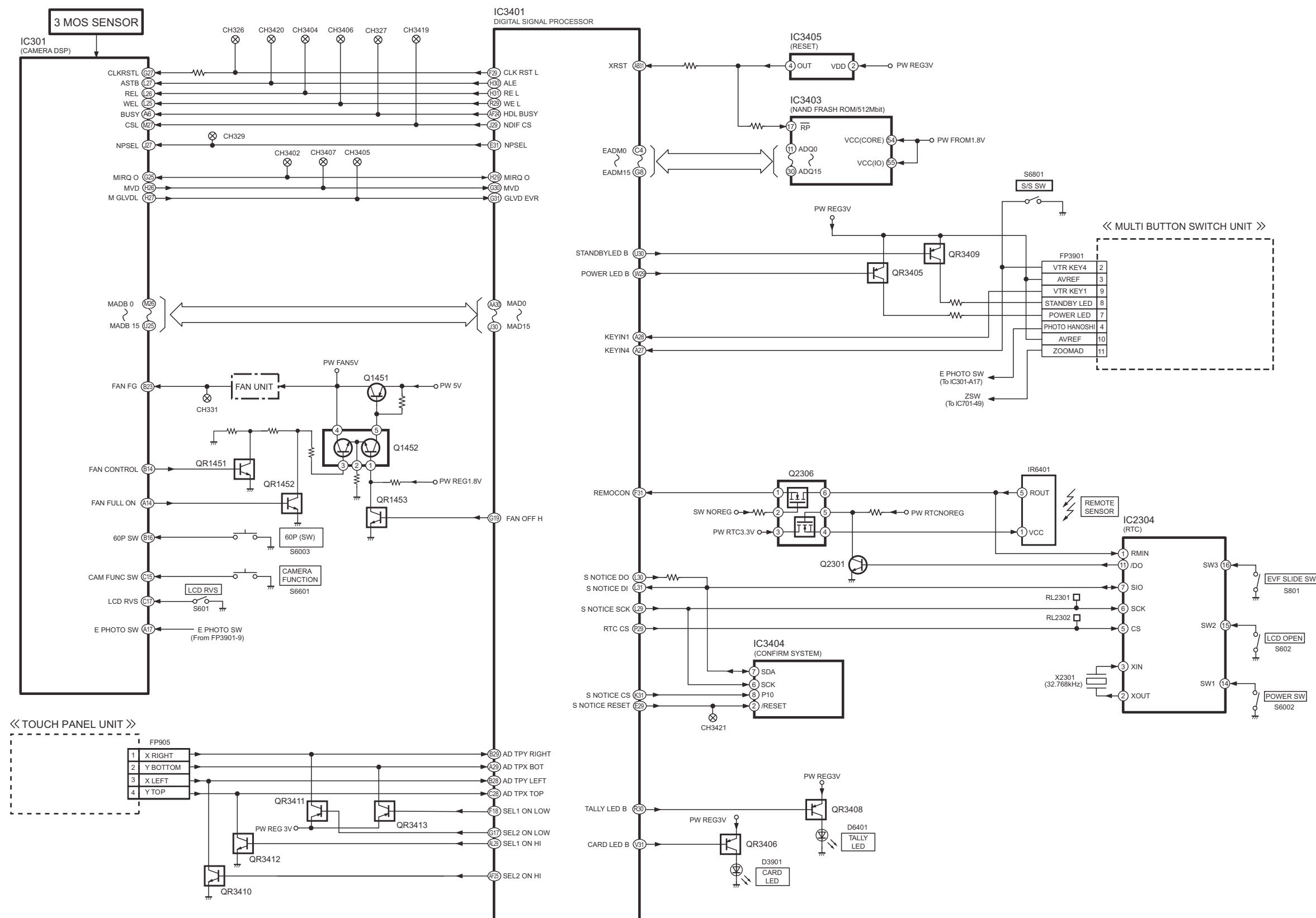
11 Block Diagram

11.1. Overall Block Diagram



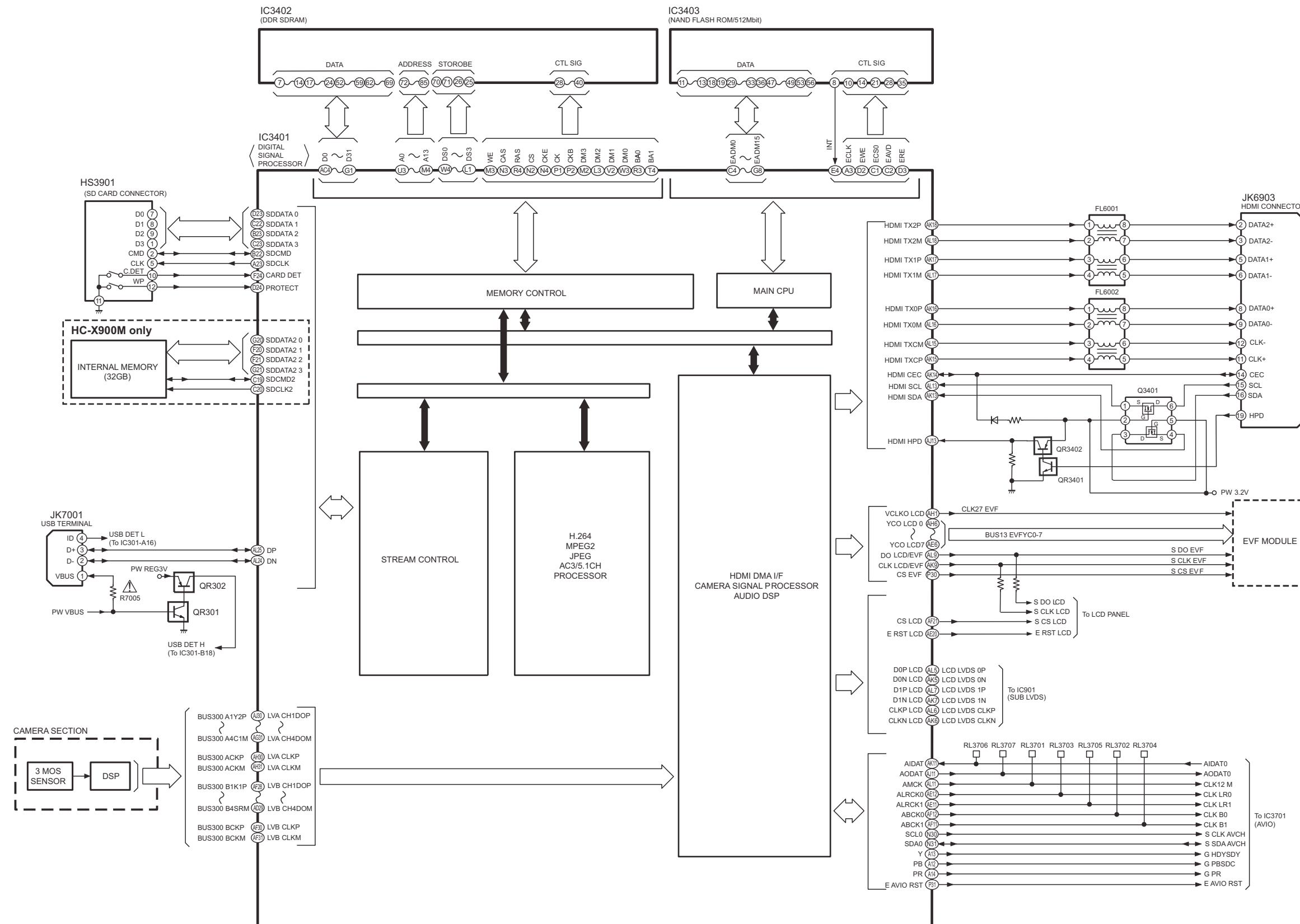
HC-X900 / HC-X909 OVERALL BLOCK DIAGRAM

11.2. System Control Block Diagram



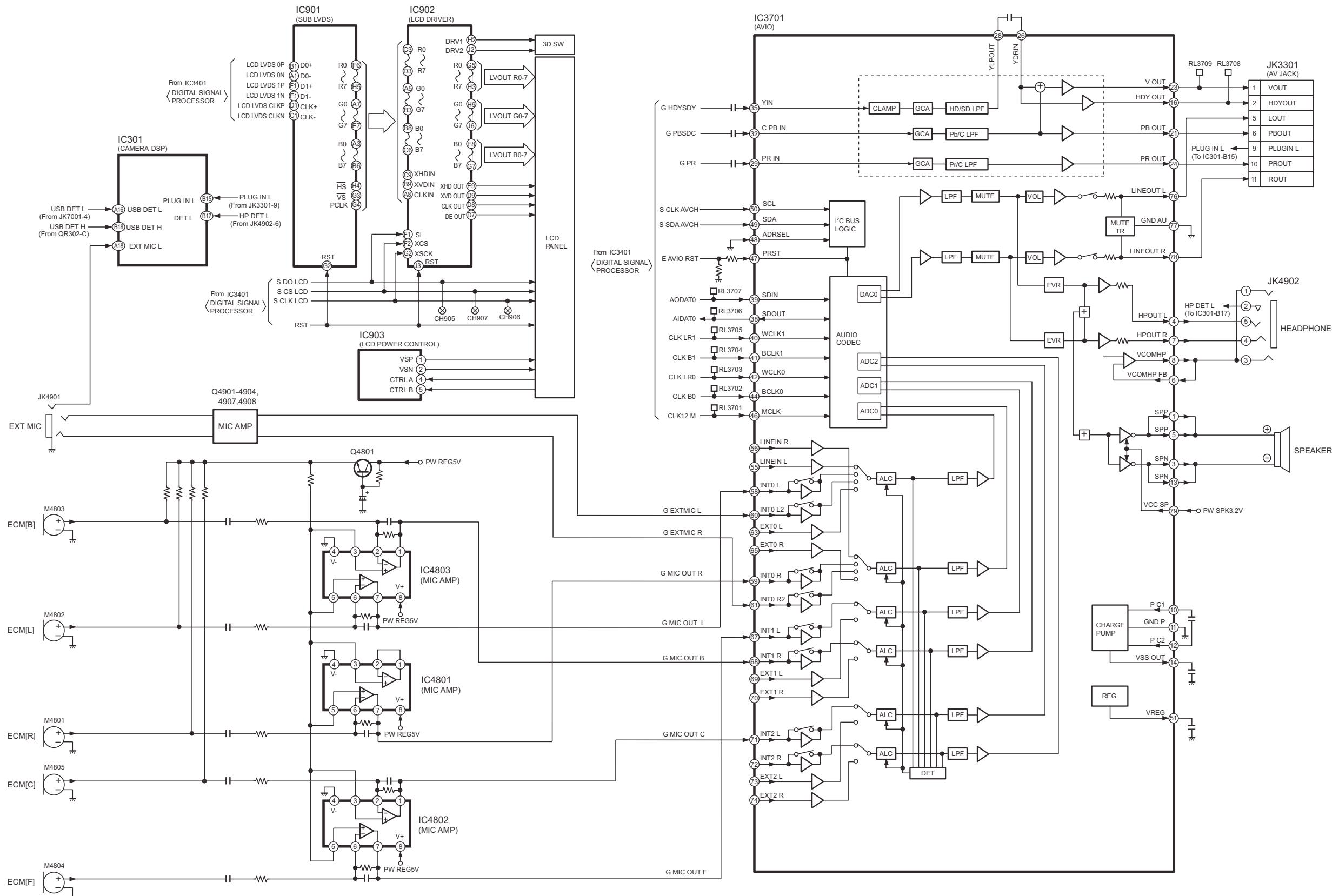
HC-X900 / HC-X909 SYSTEM CONTROL CIRCUIT BLOCK DIAGRAM

11.3. Video/Audio Process Block Diagram (1/2)



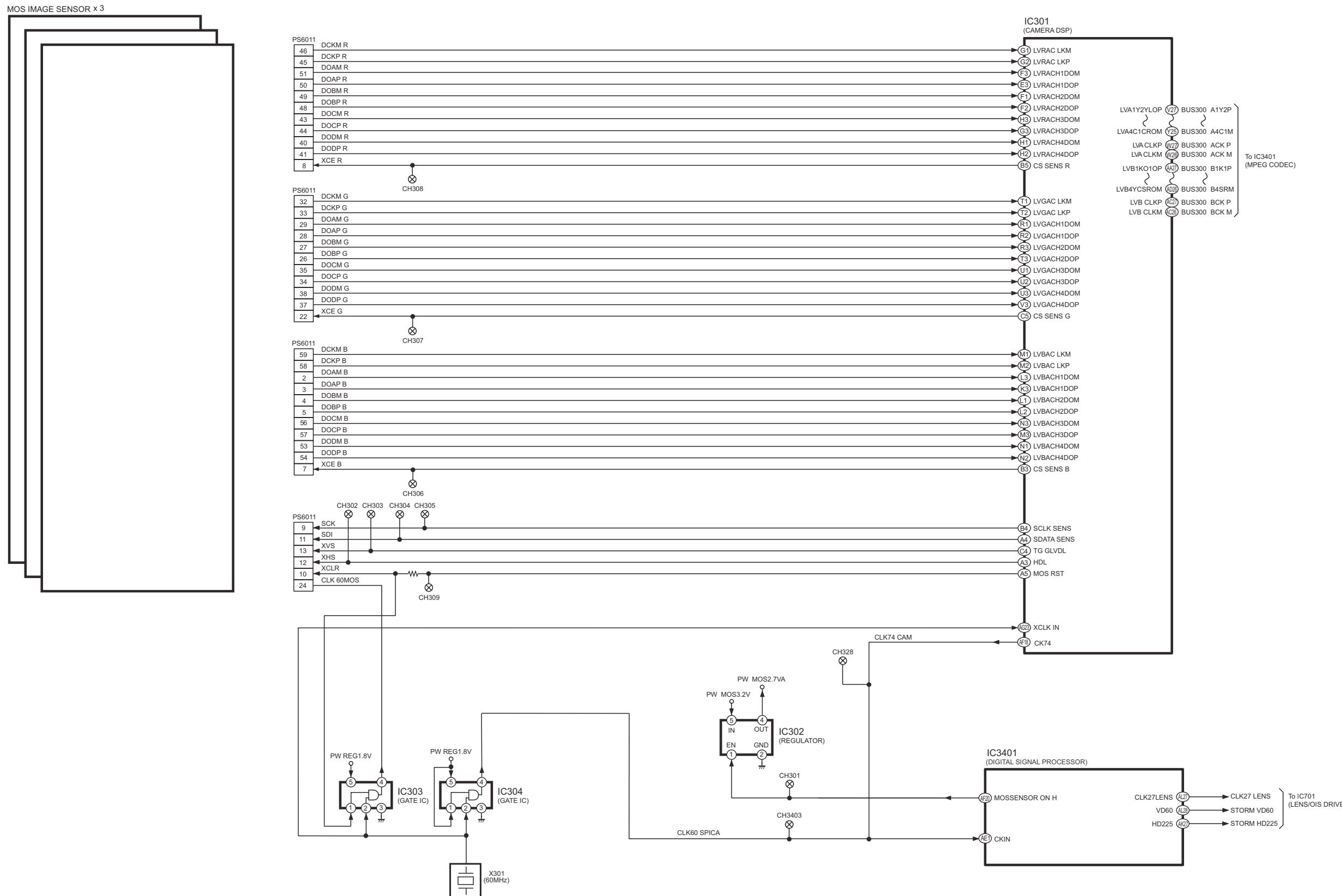
HC-X900 / HC-X909 VIDEO/AUDIO SIGNAL PROCESS(1) CIRCUIT BLOCK DIAGRAM

11.4. Video/Audio Process Block Diagram (2/2)



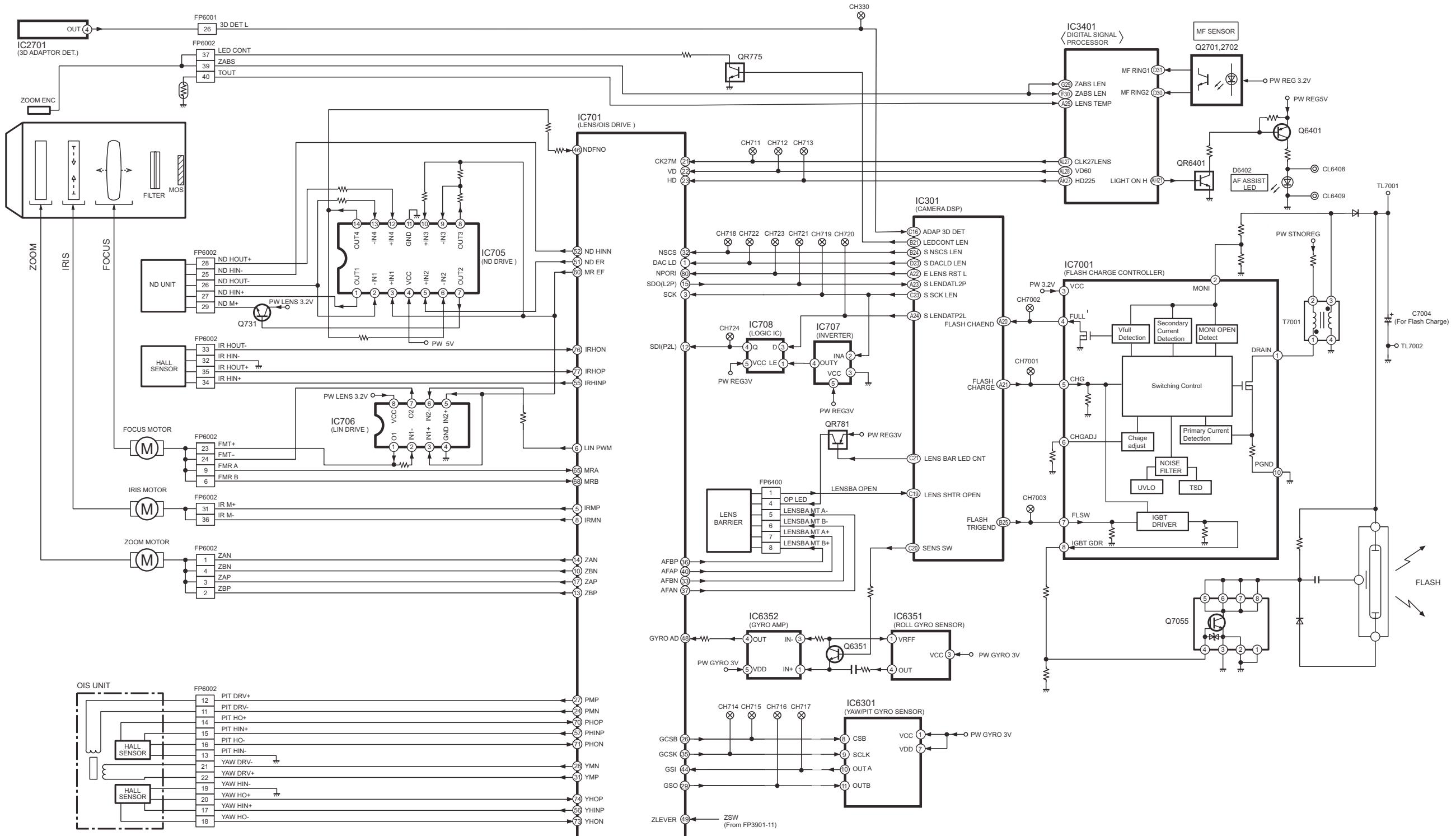
HC-X900 / HC-X909 VIDEO/AUDIO SIGNAL PROCESS(2) CIRCUIT BLOCK DIAGRAM

11.5. Camera Block Diagram



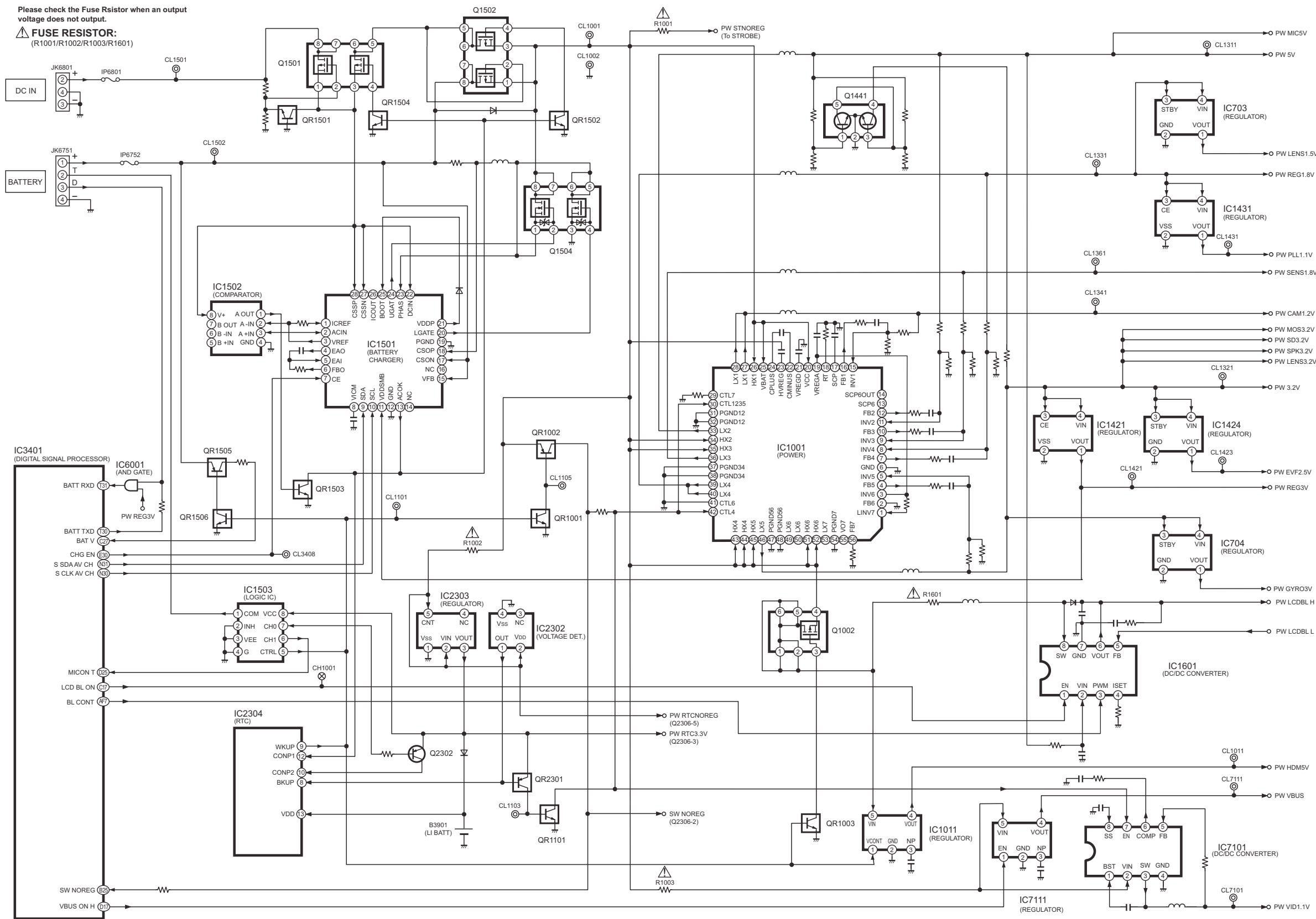
HC-X900 / HC-X909 CAMERA CIRCUIT BLOCK DIAGRAM

11.6. Lens Drive Block Diagram



HC-X900 / HC-X909 LENS DRIVE CIRCUIT BLOCK DIAGRAM

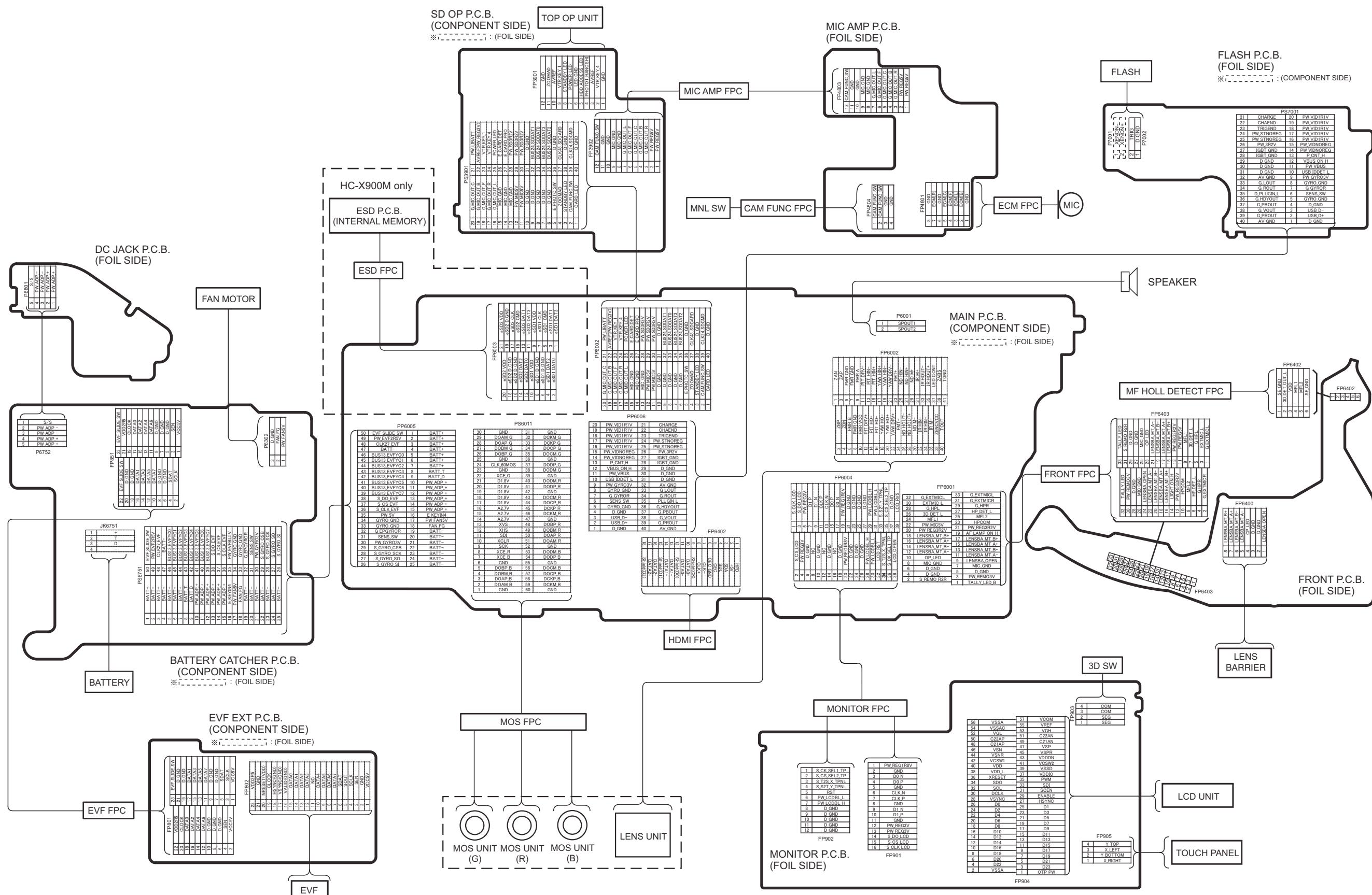
11.7. Power Block Diagram



HC-X900 / HC-X909 POWER SUPPLY CIRCUIT BLOCK DIAGRAM

12 Wiring Connection Diagram

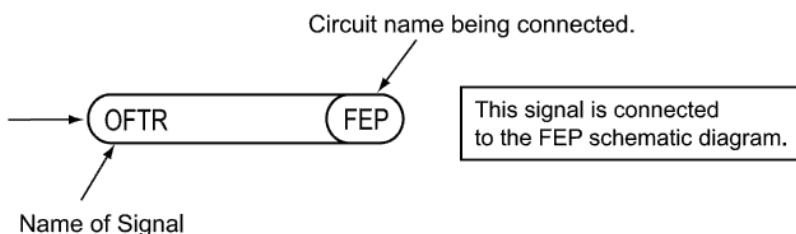
12.1. Interconnection Diagram



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:



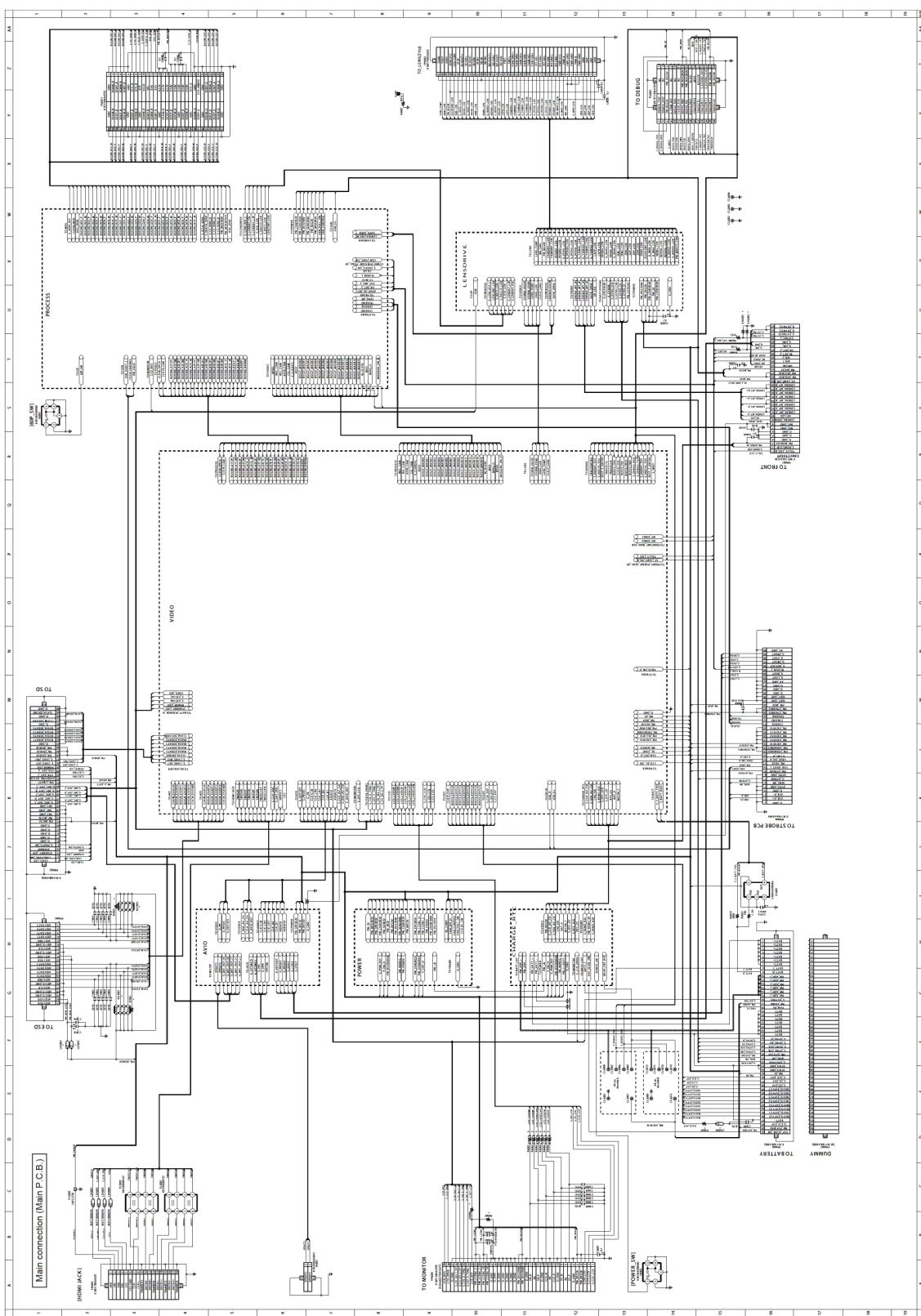
5. It might be taking time for display and/or access of the Schematic Diagrams & P. C. B having the heavy data volume.

Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Parts List Note

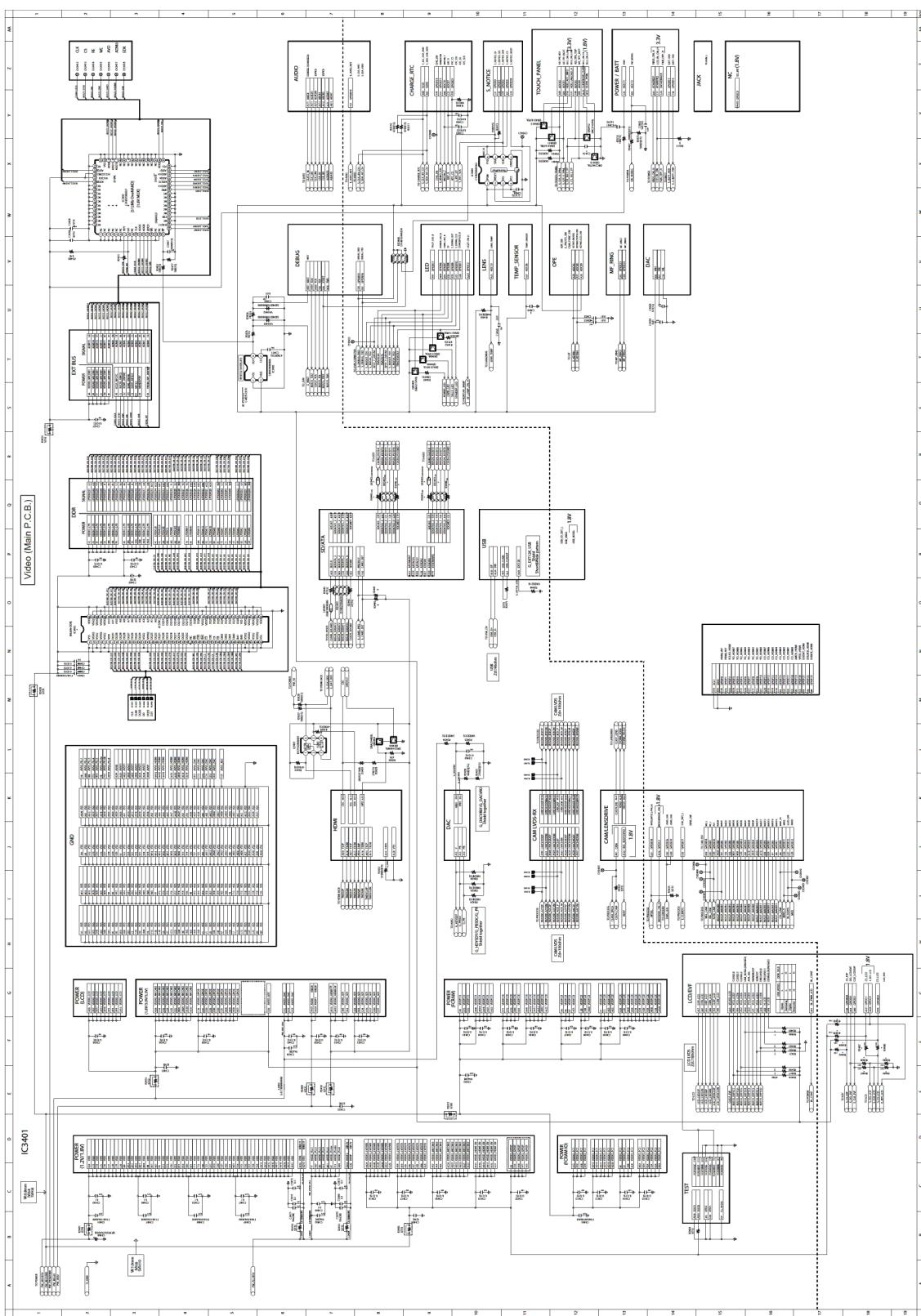
- Note:
- 1.* Be sure to make your orders of replacement parts according to this list.
 2. **IMPORTANT SAFETY NOTICE**
Components identified with the mark Δ have the special characteristics for safety.
When replacing any of these components, use only the same type.
 3. Unless otherwise specified,
All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

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

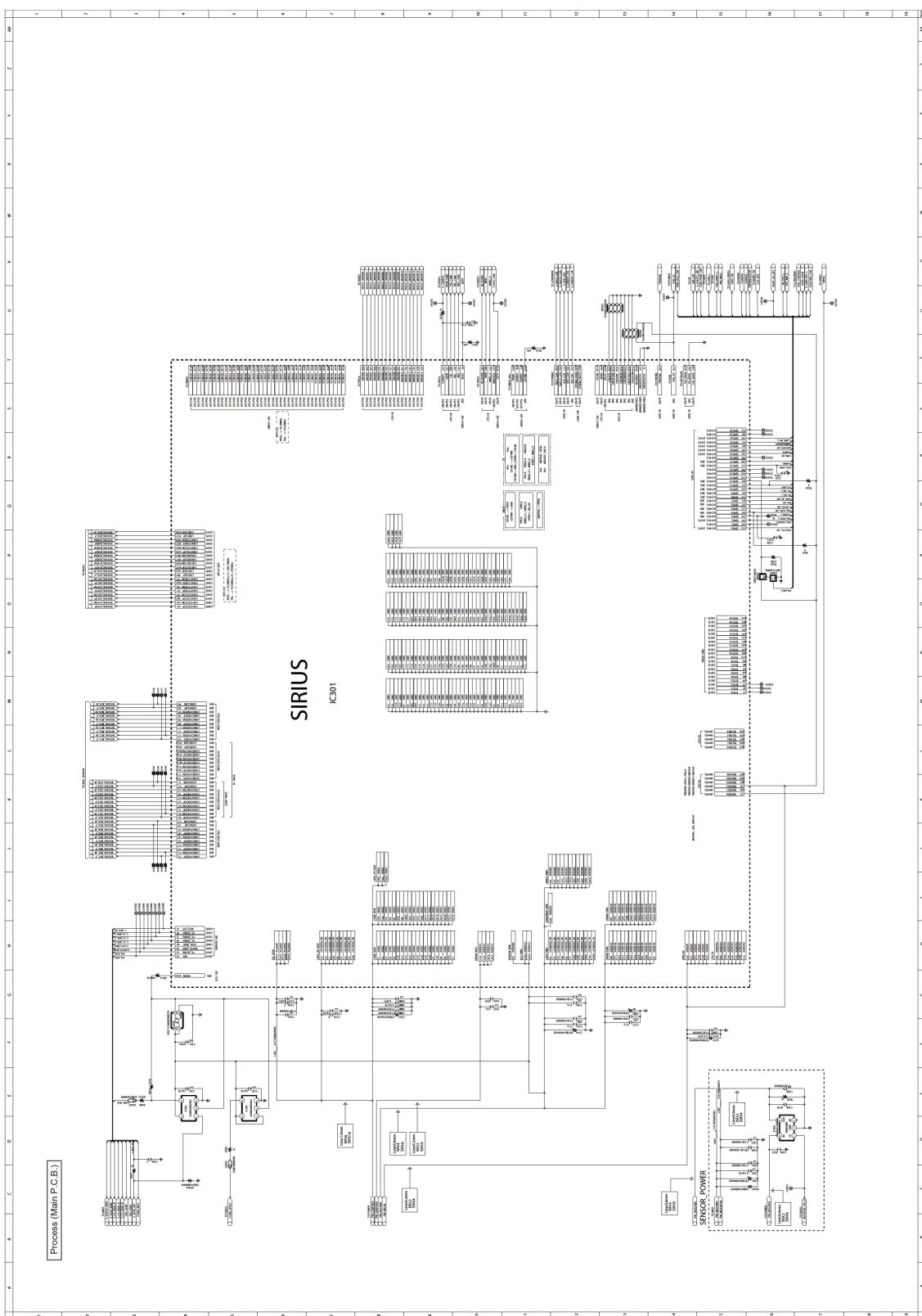
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Main connection (Main P.C.B.)



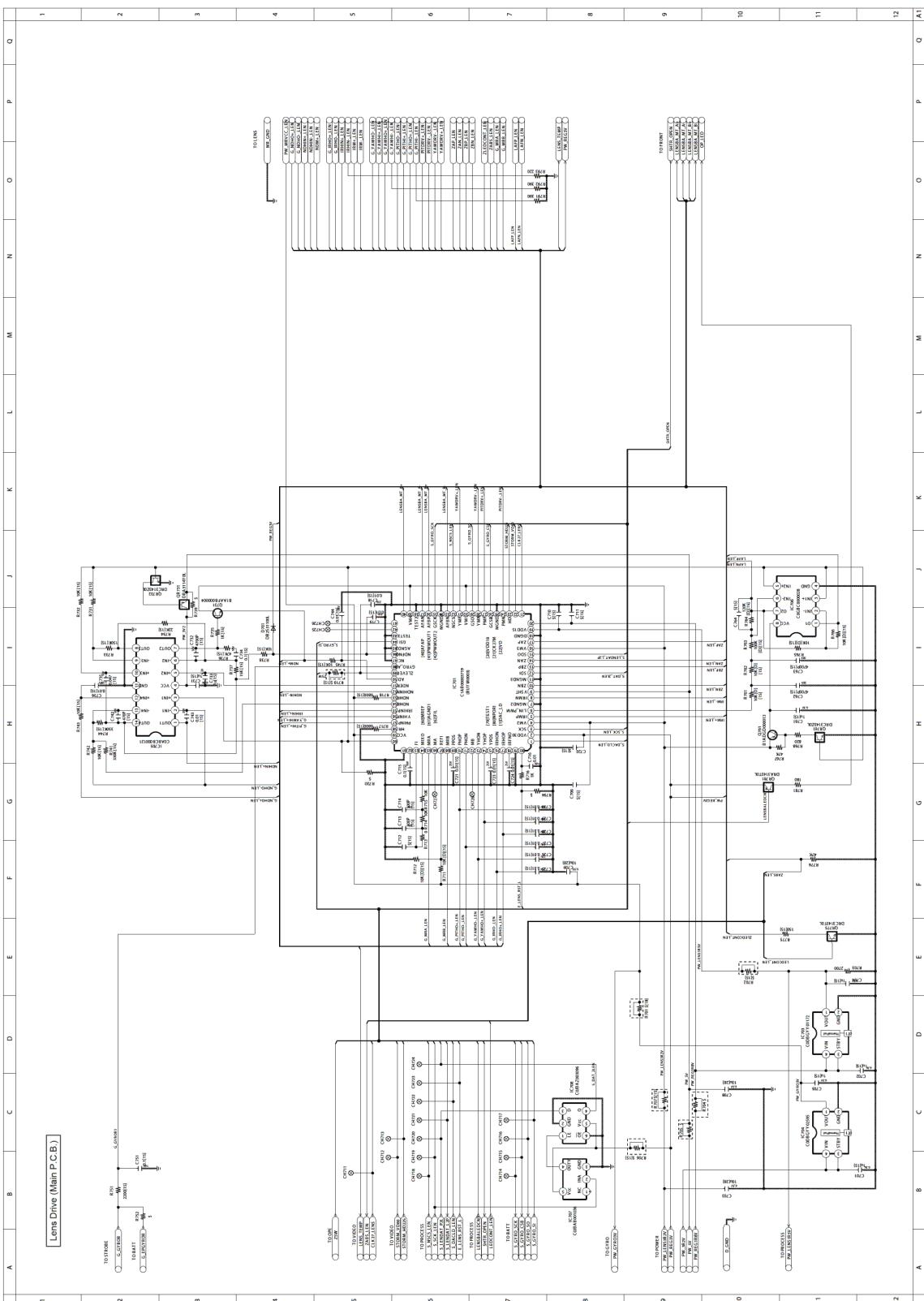
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Video (Main P.C.B.)



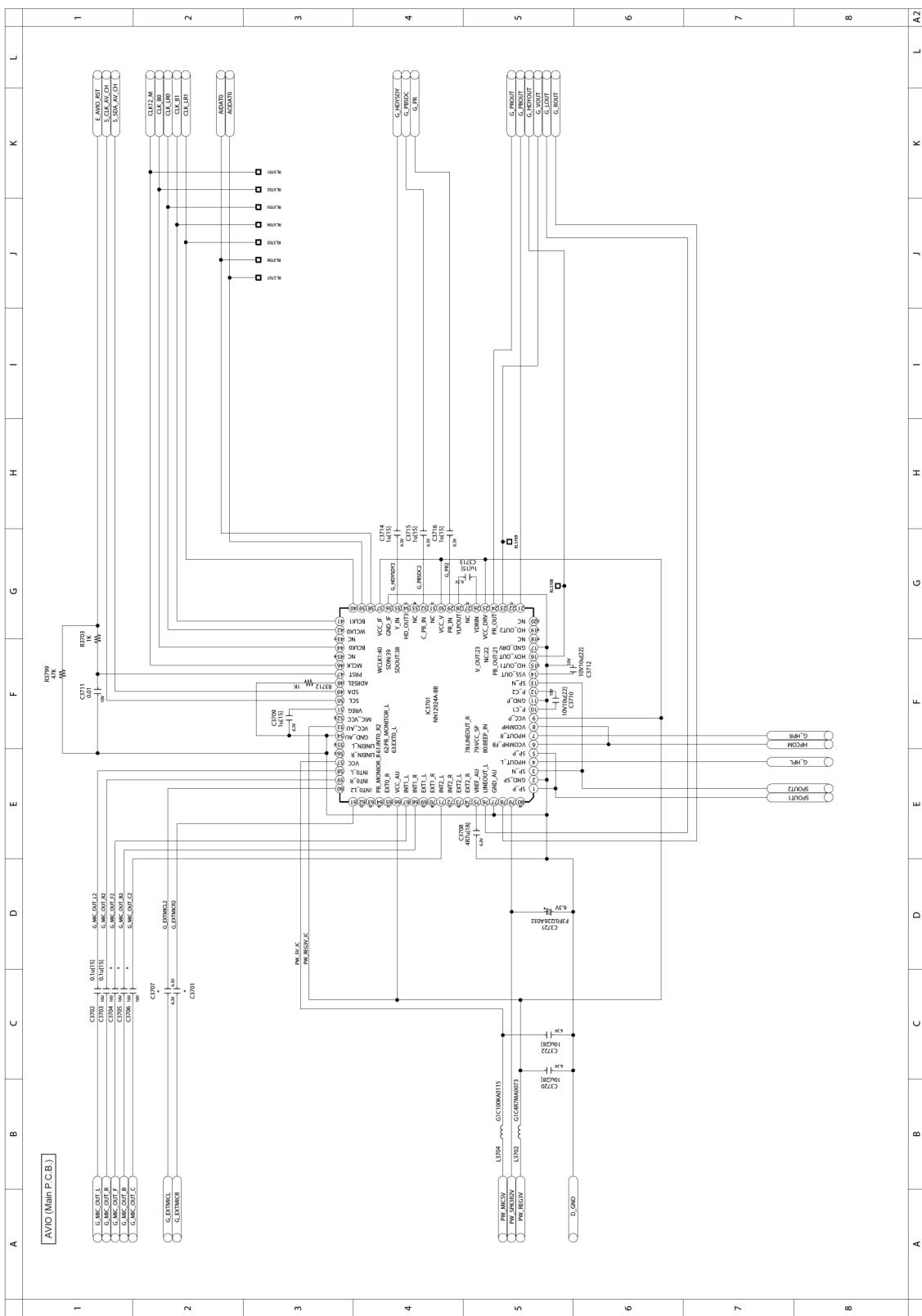
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Process (Main P.C.B.)



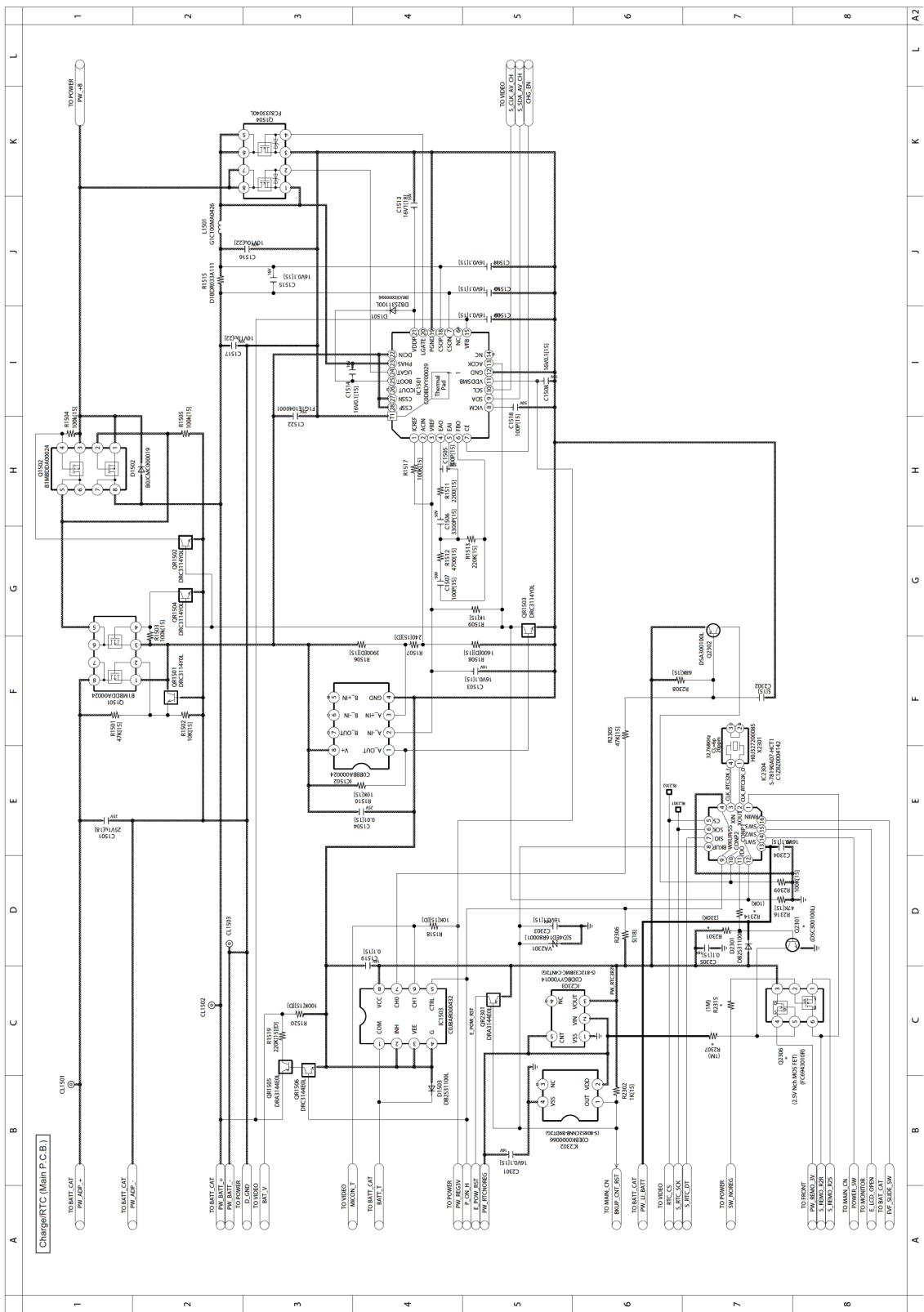
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Lens Drive (Main P.C.B.)



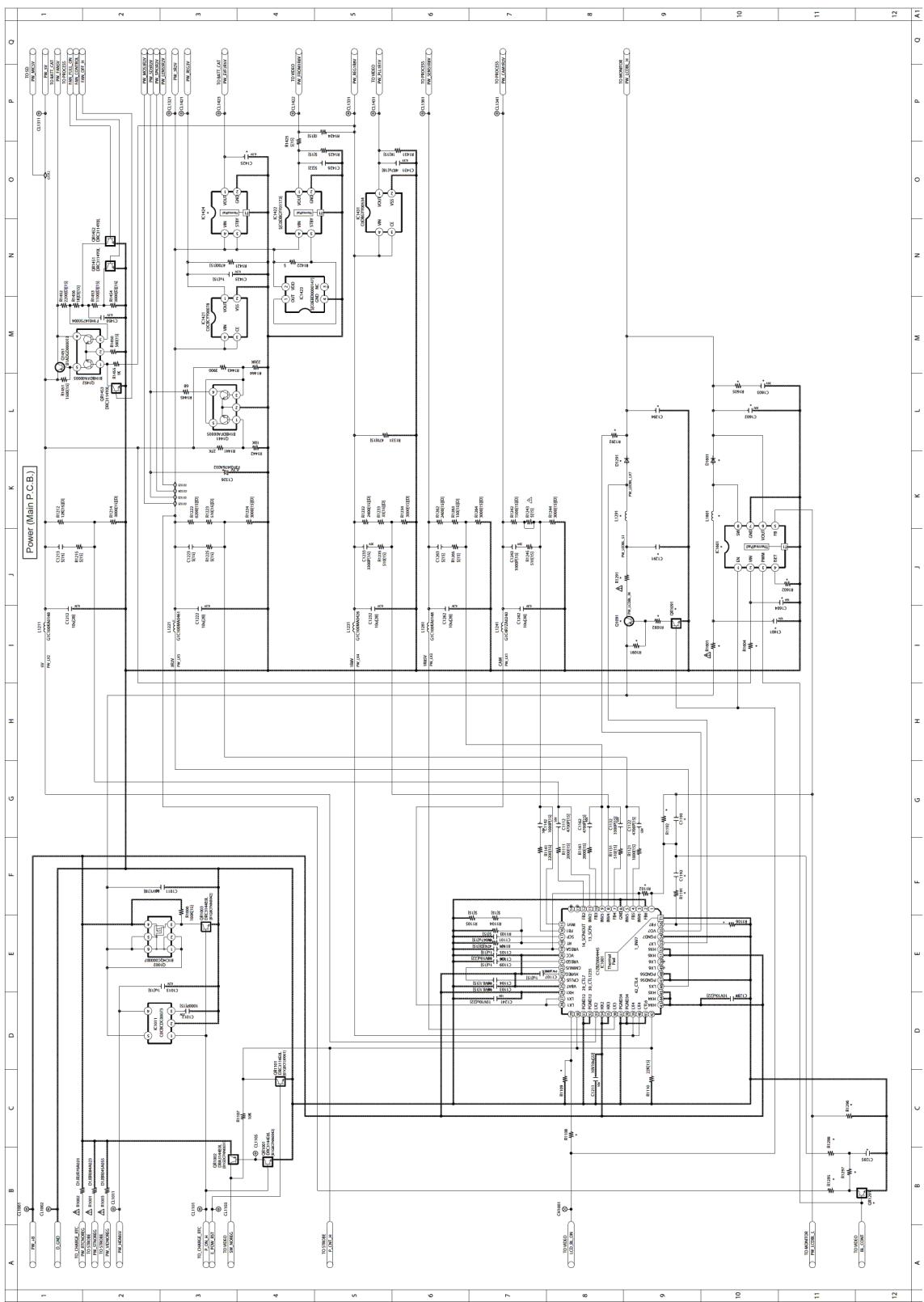
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG AVIO (Main P.C.B.)



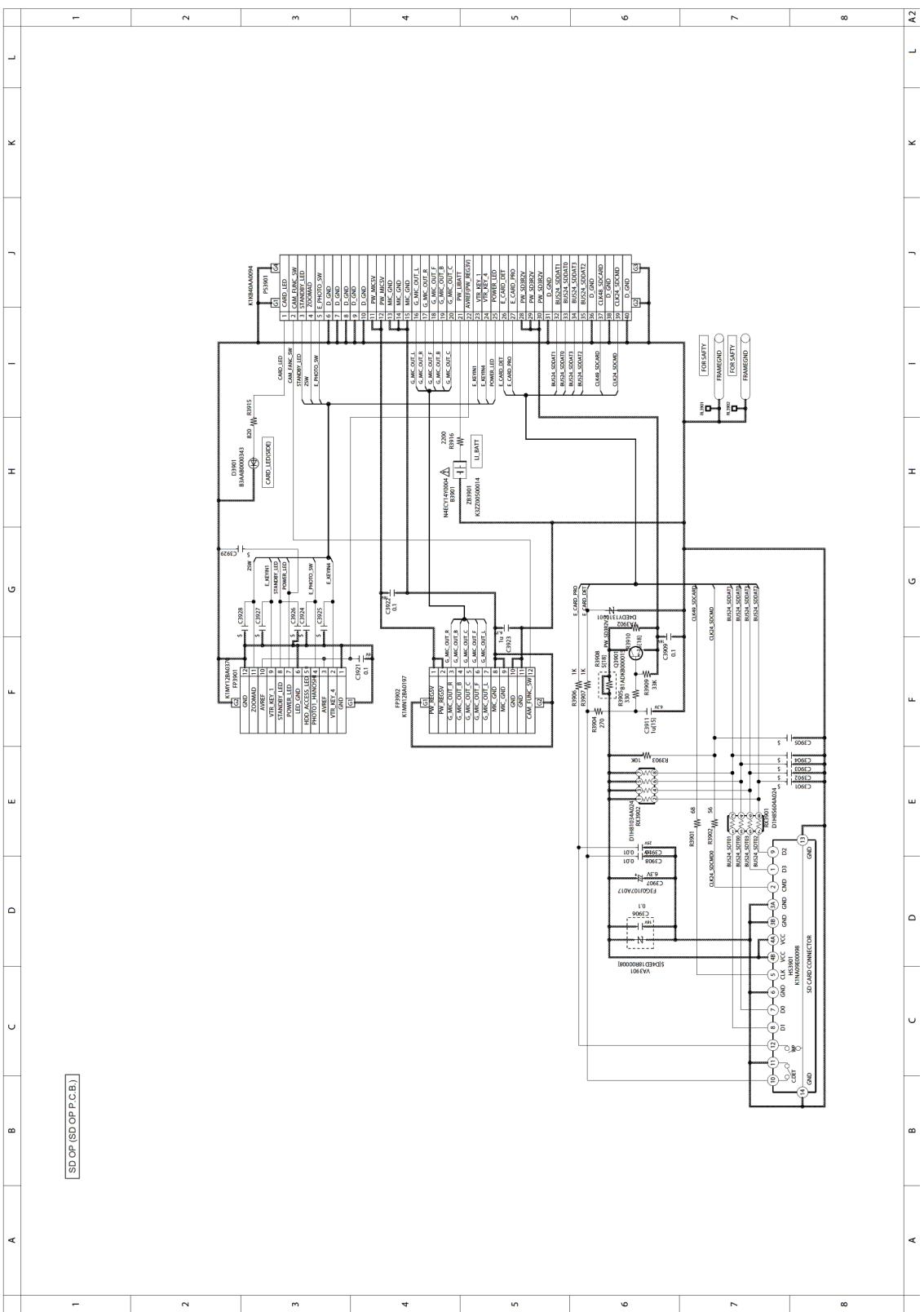
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Charge/RTC (Main P.C.B.)



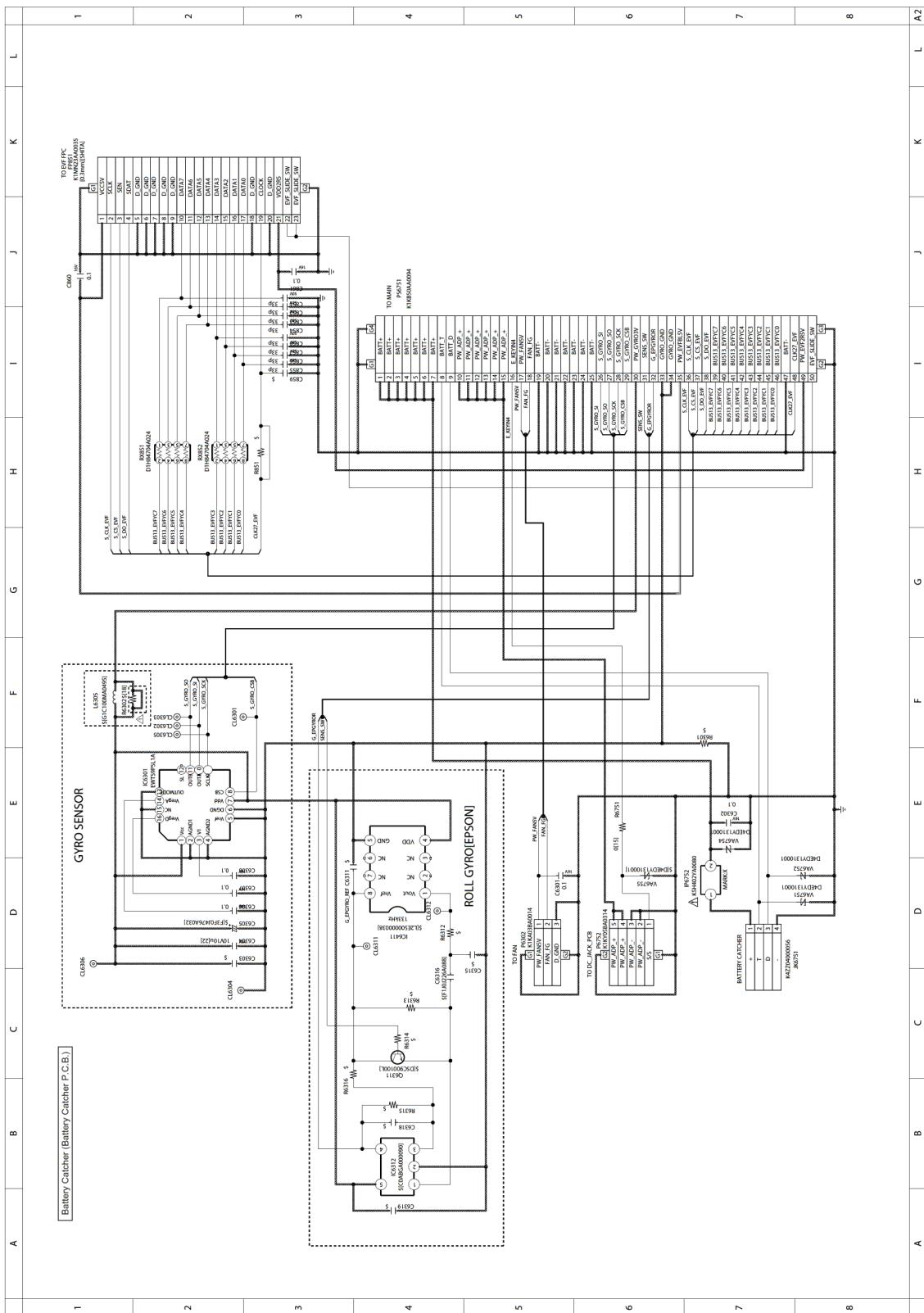
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Power (Main P.C.B.)



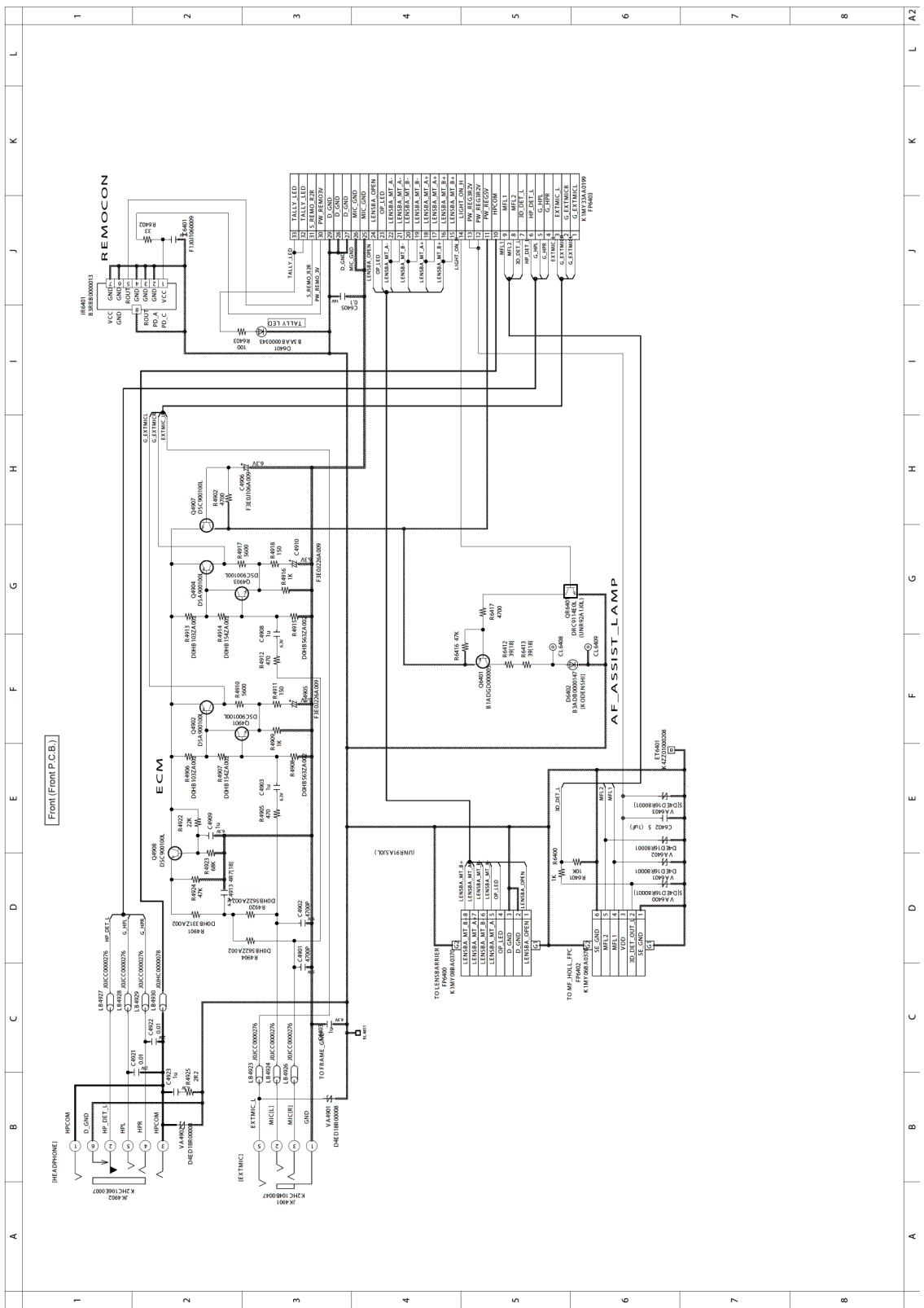
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG SD OP (SD OP P.C.B.)



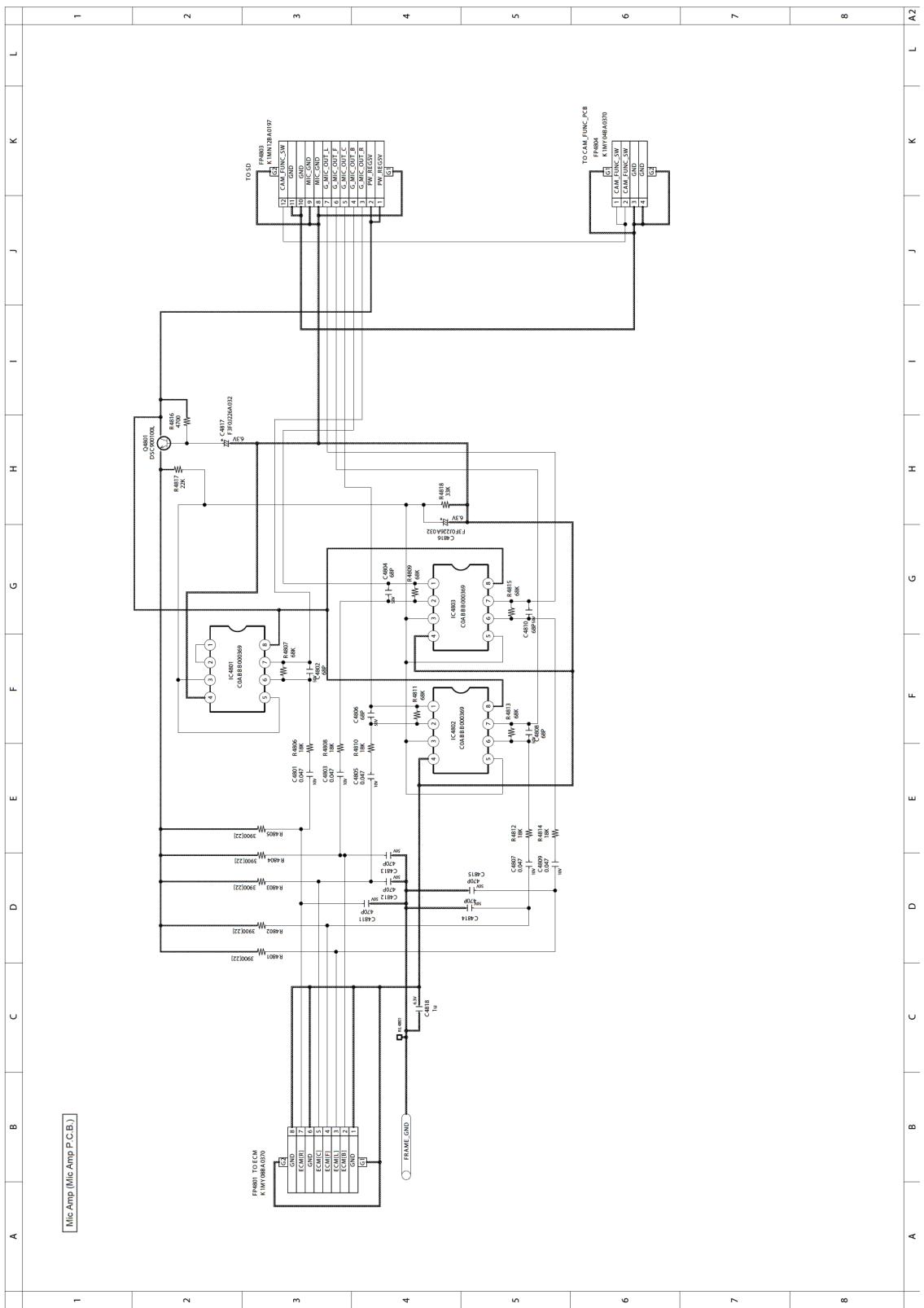
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Battery Catcher (Battery Catcher P.C.B.)



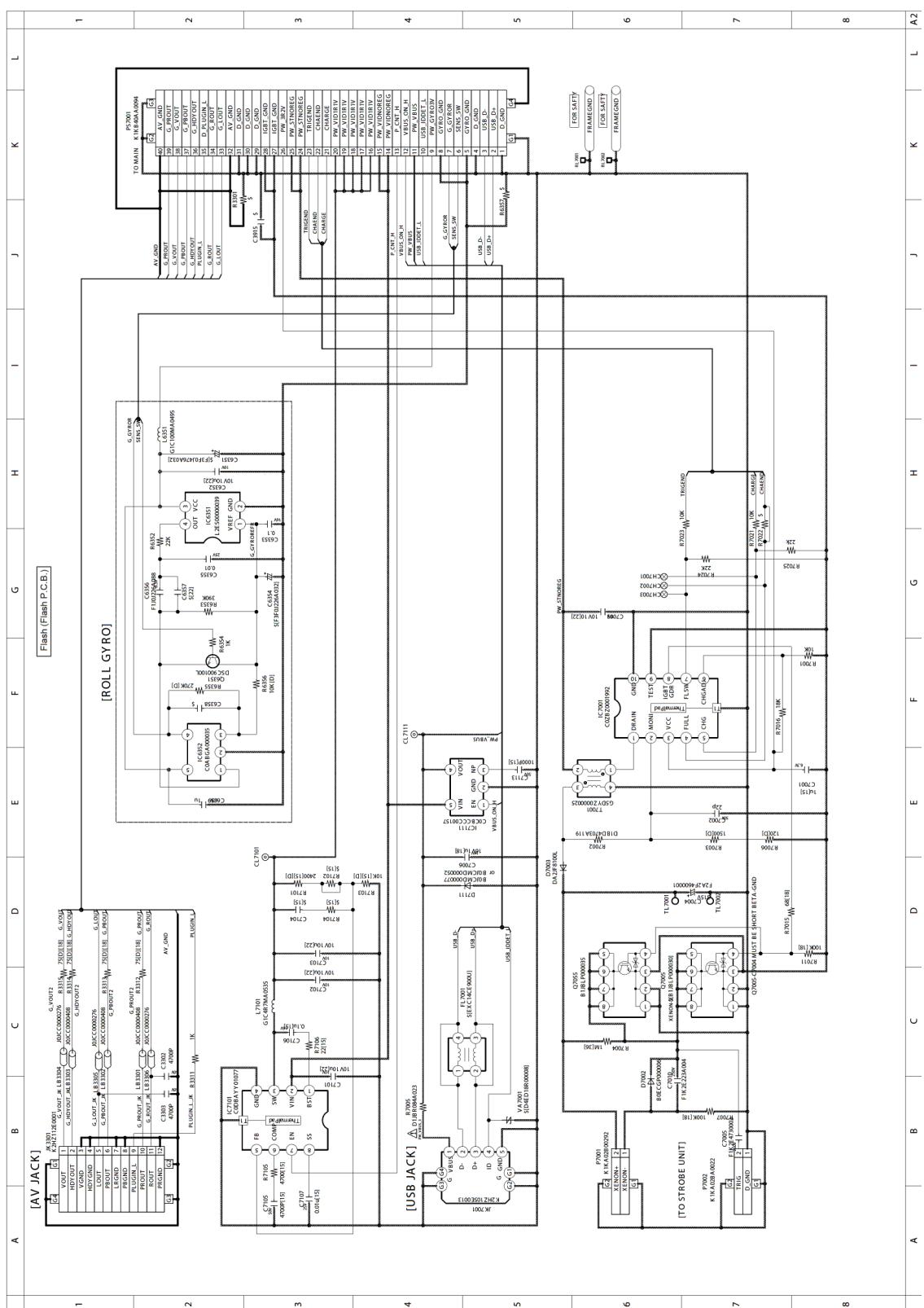
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Front (Front P.C.B.)



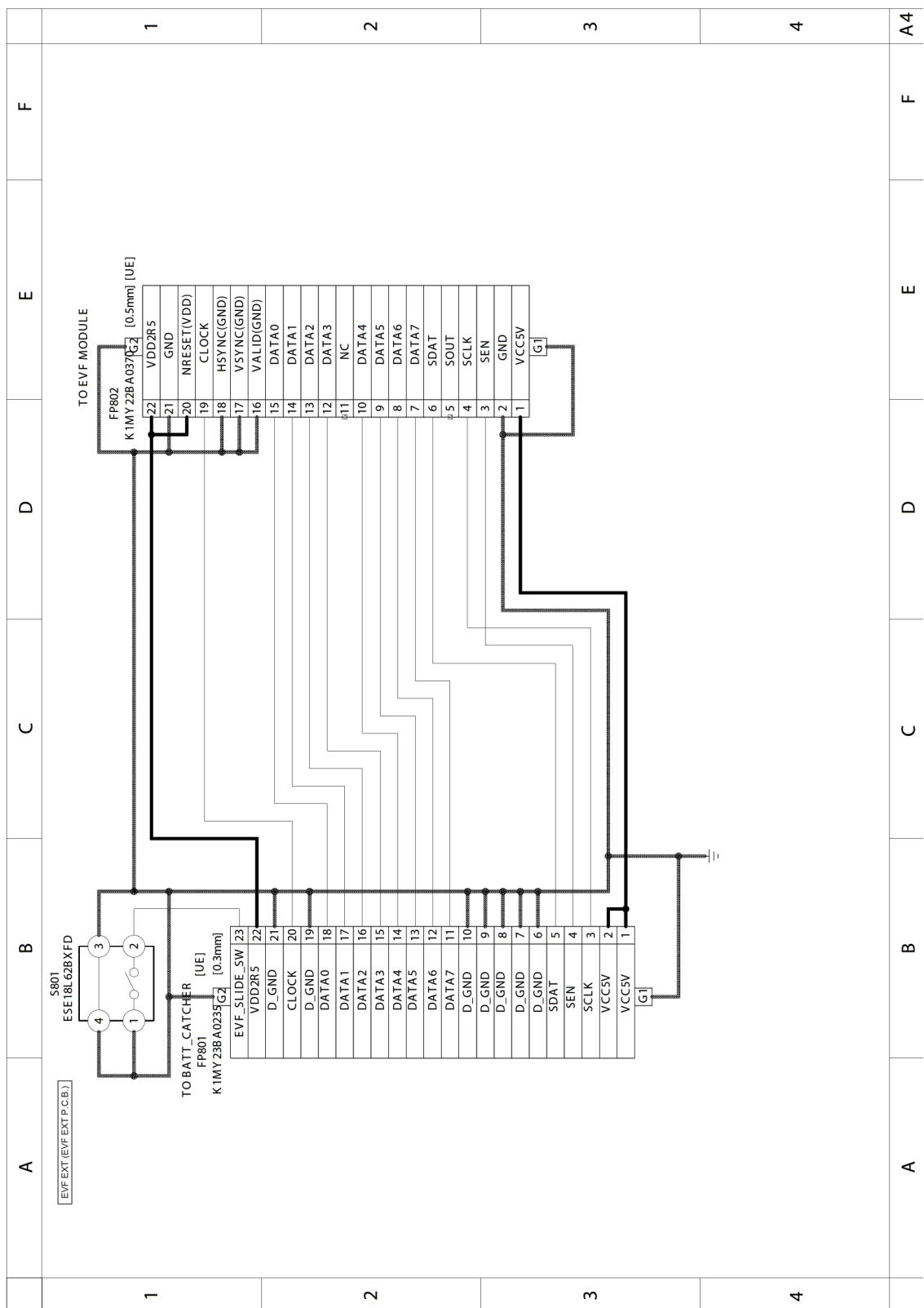
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Mic Amp (Mic Amp P.C.B.)



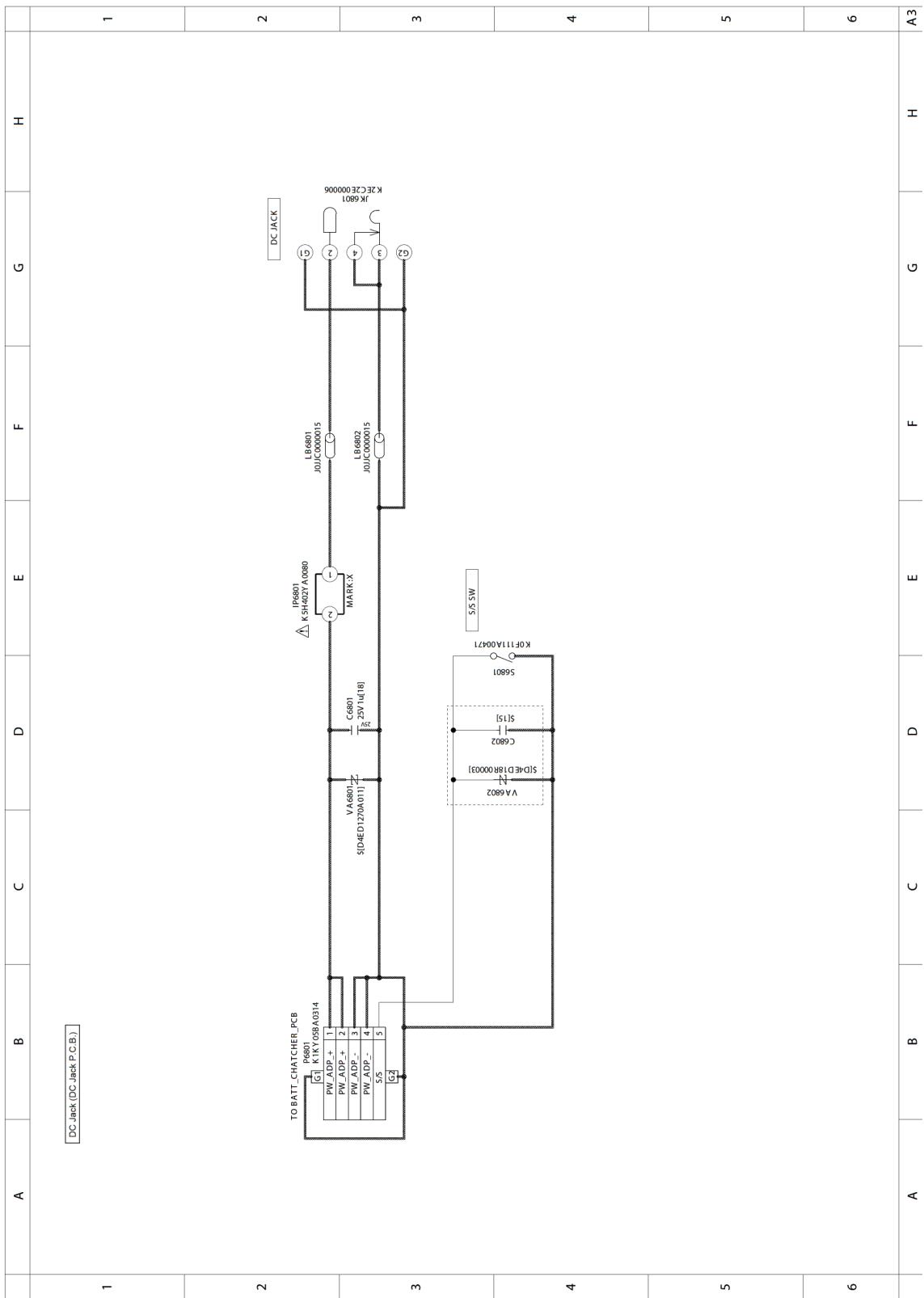
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Flash (Flash P.C.B.)



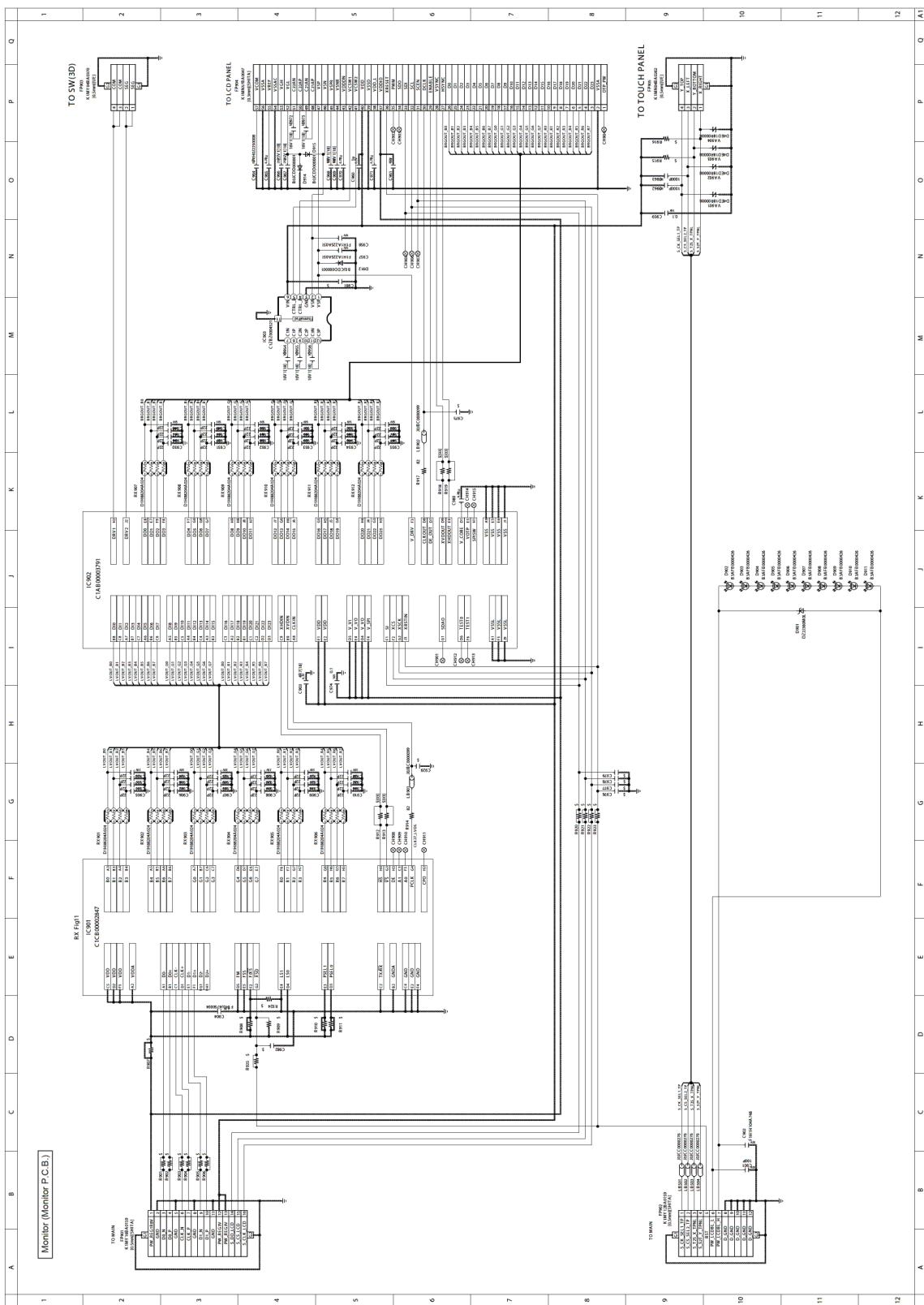
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG EVF EXT (EVF EXT P.C.B.)



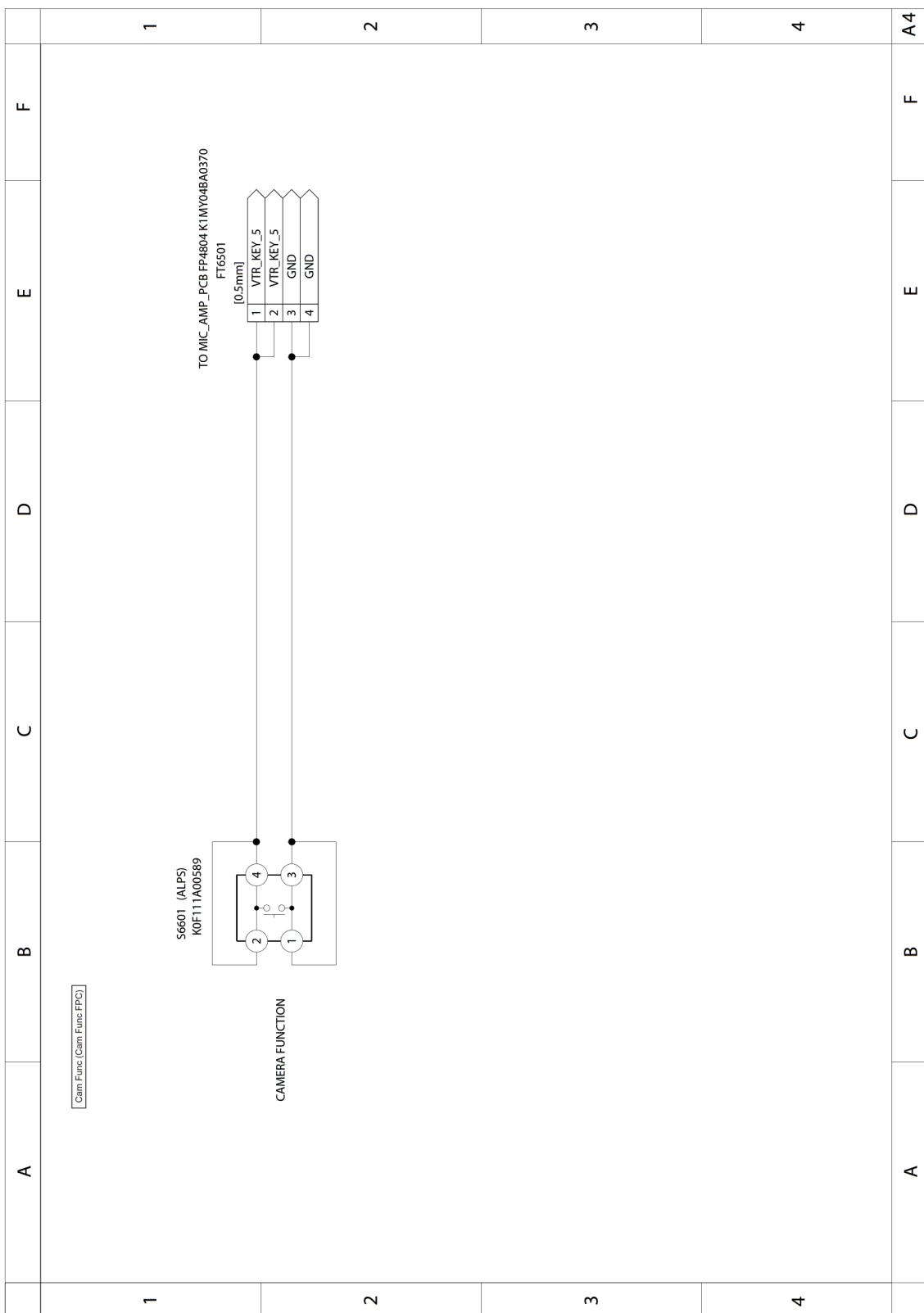
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG DC Jack (DC Jack P.C.B.)



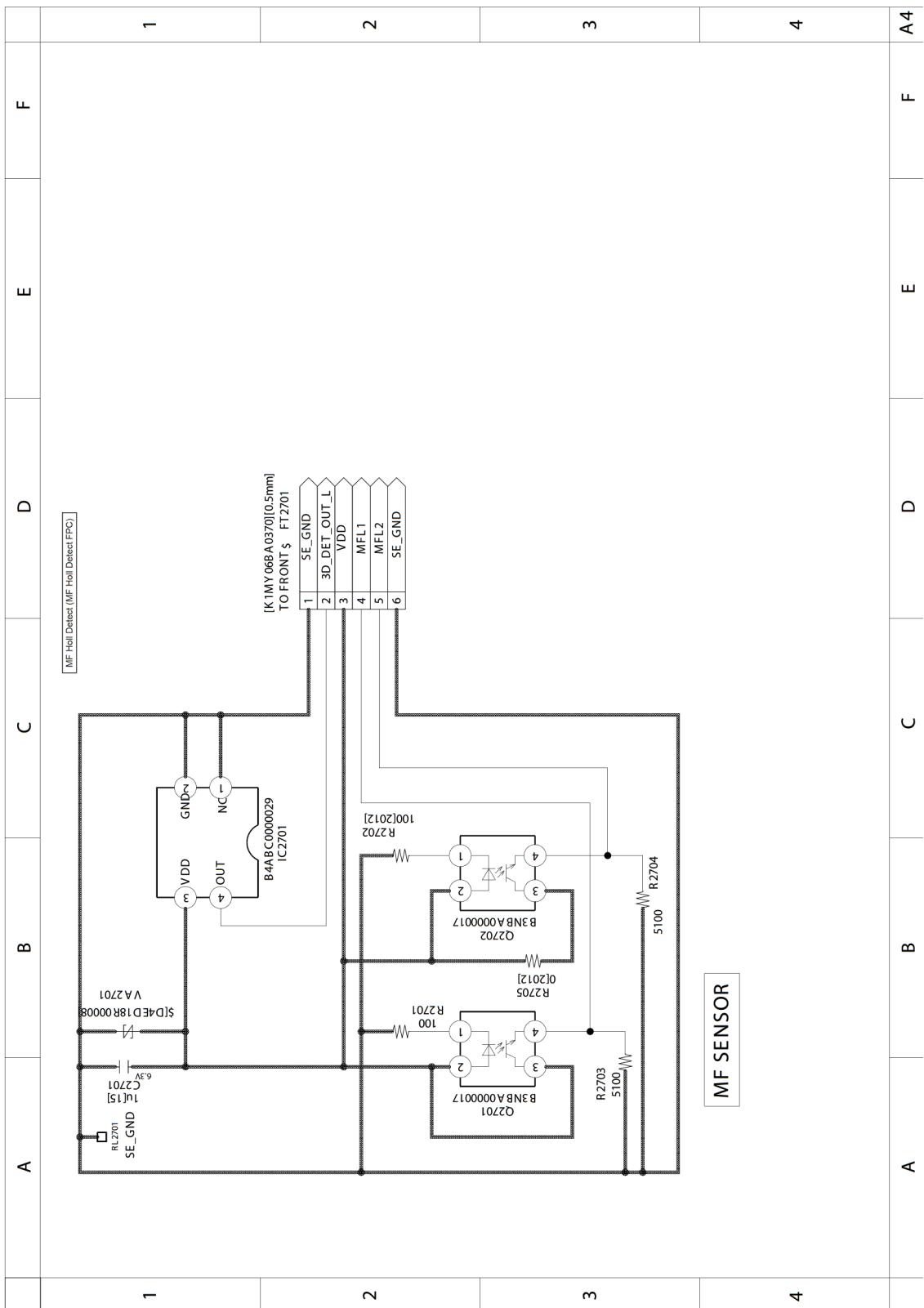
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Monitor (Monitor P.C.B.)



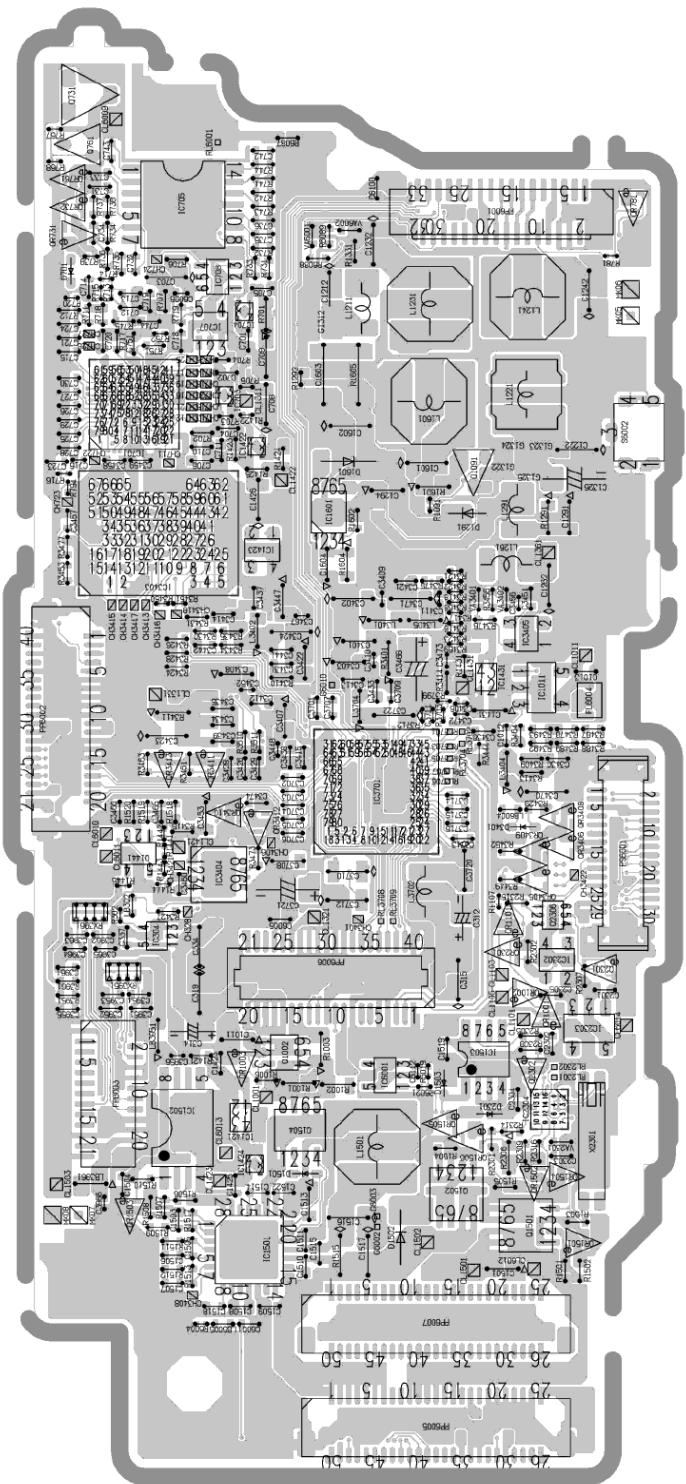
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Cam Func (Cam Func FPC)



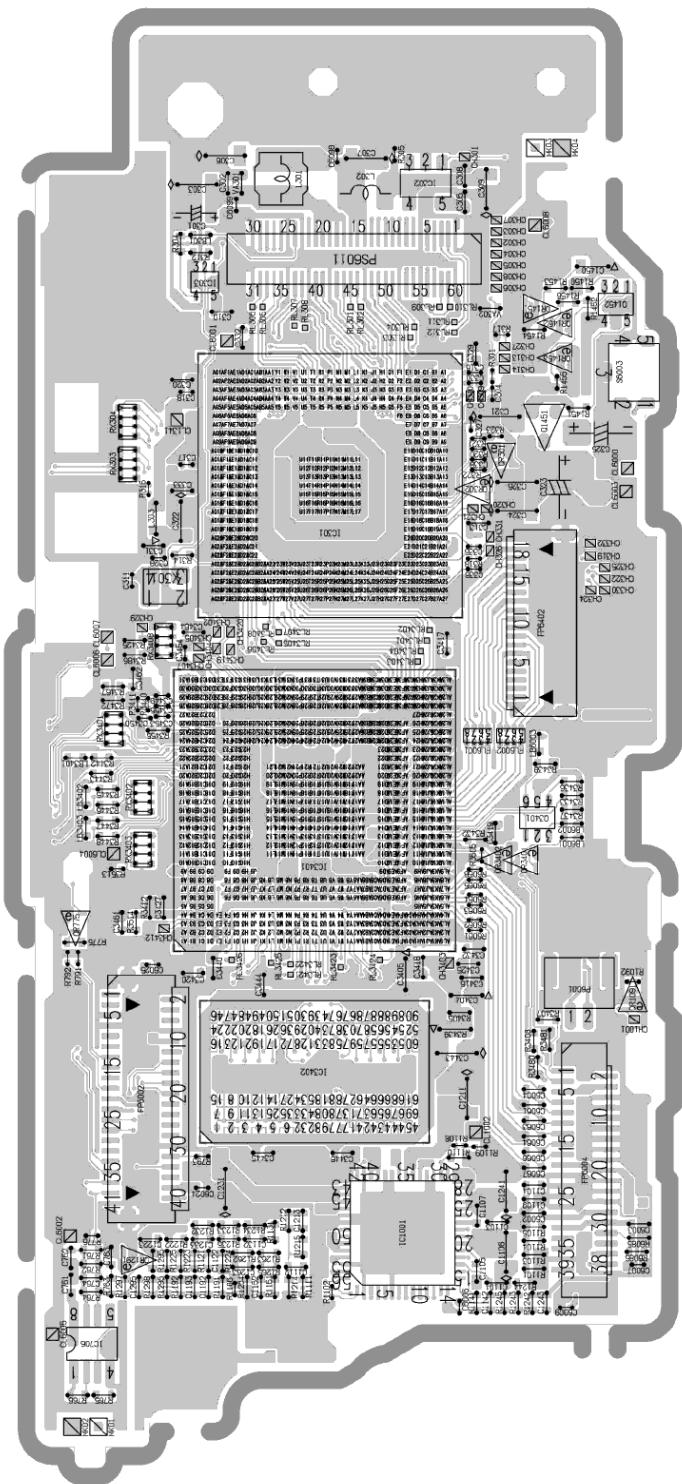
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG MF Holl Detect (MF Holl Detect FPC)



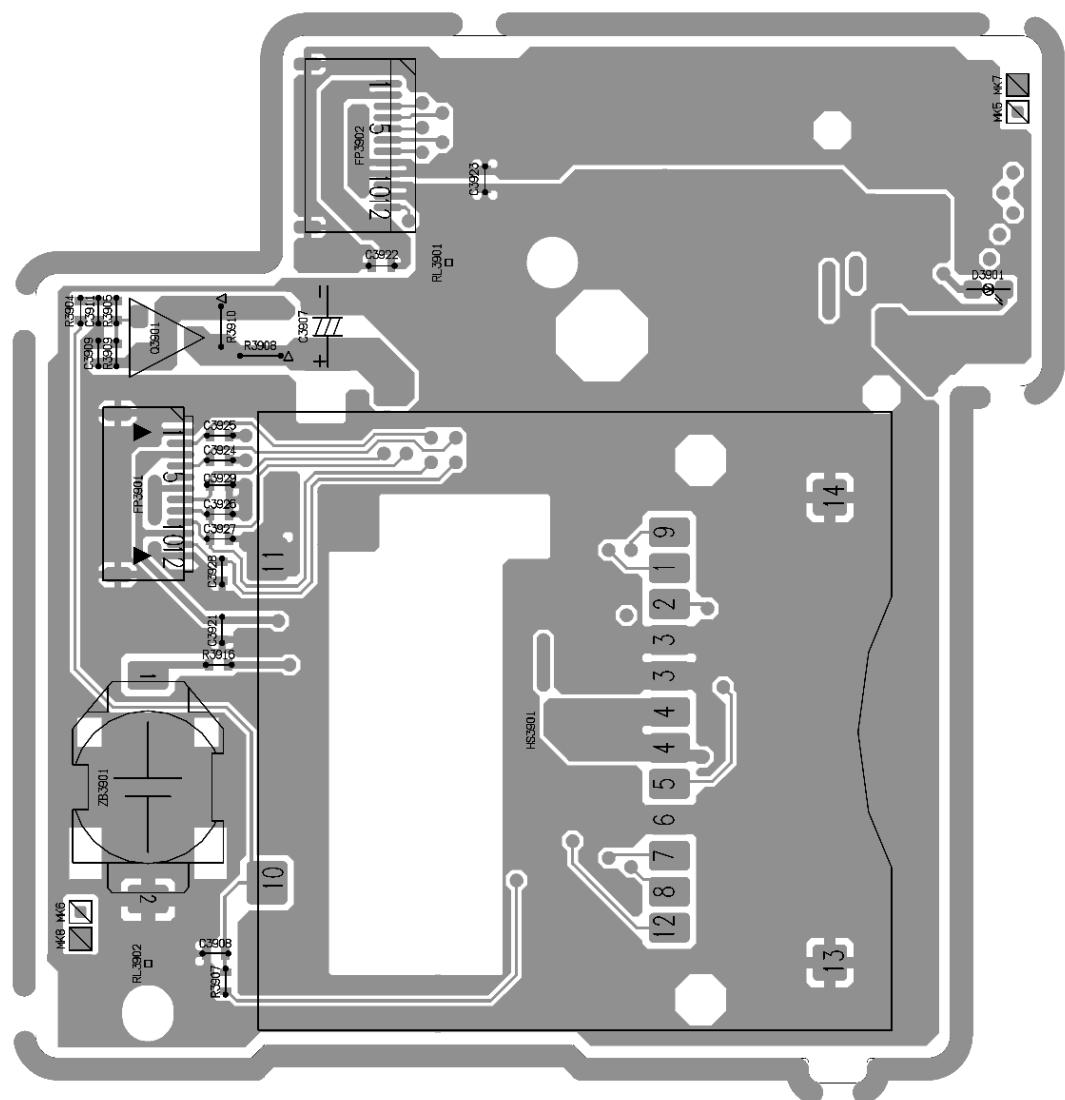
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Main P.C.B.(Component Side)



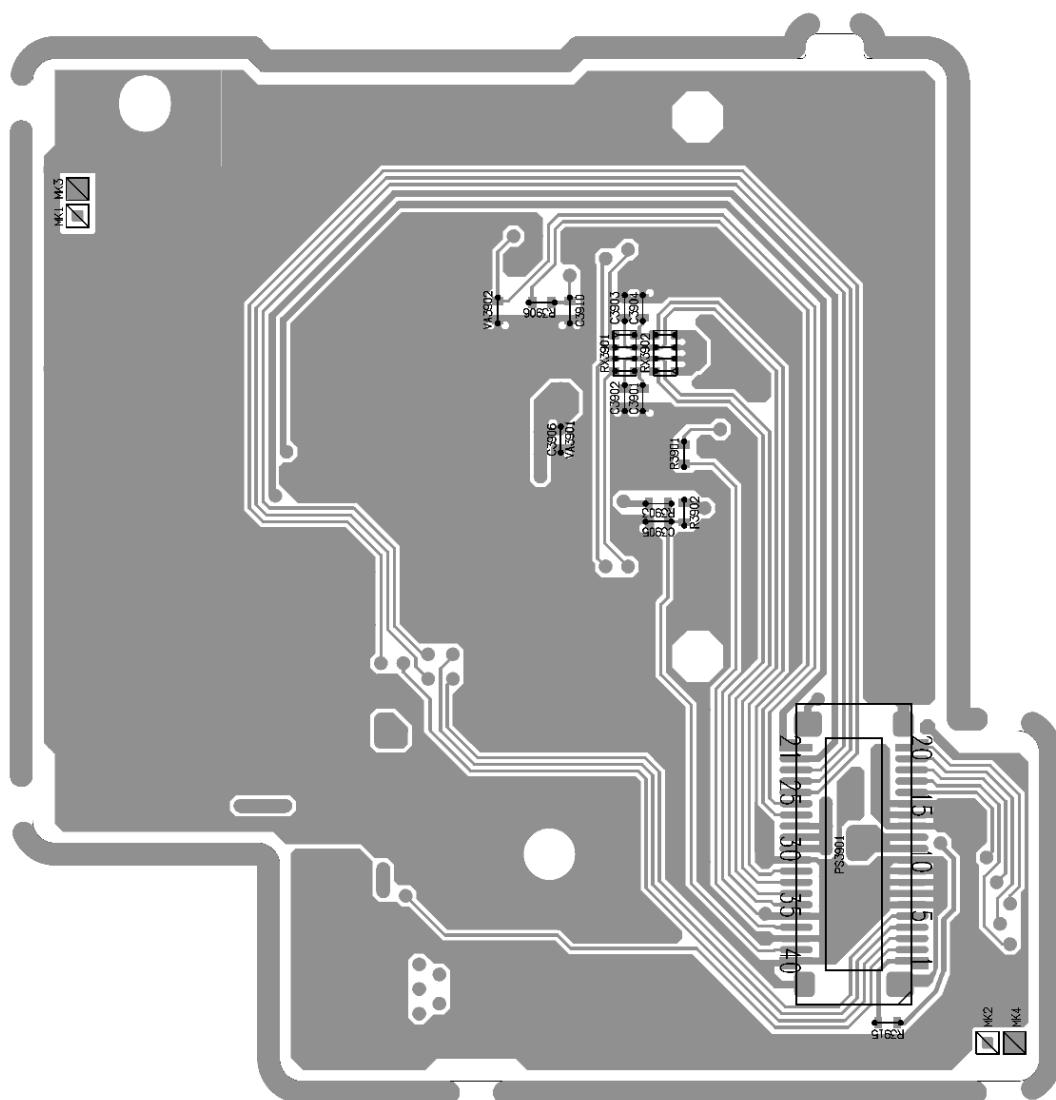
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Main P.C.B.(Foil Side)



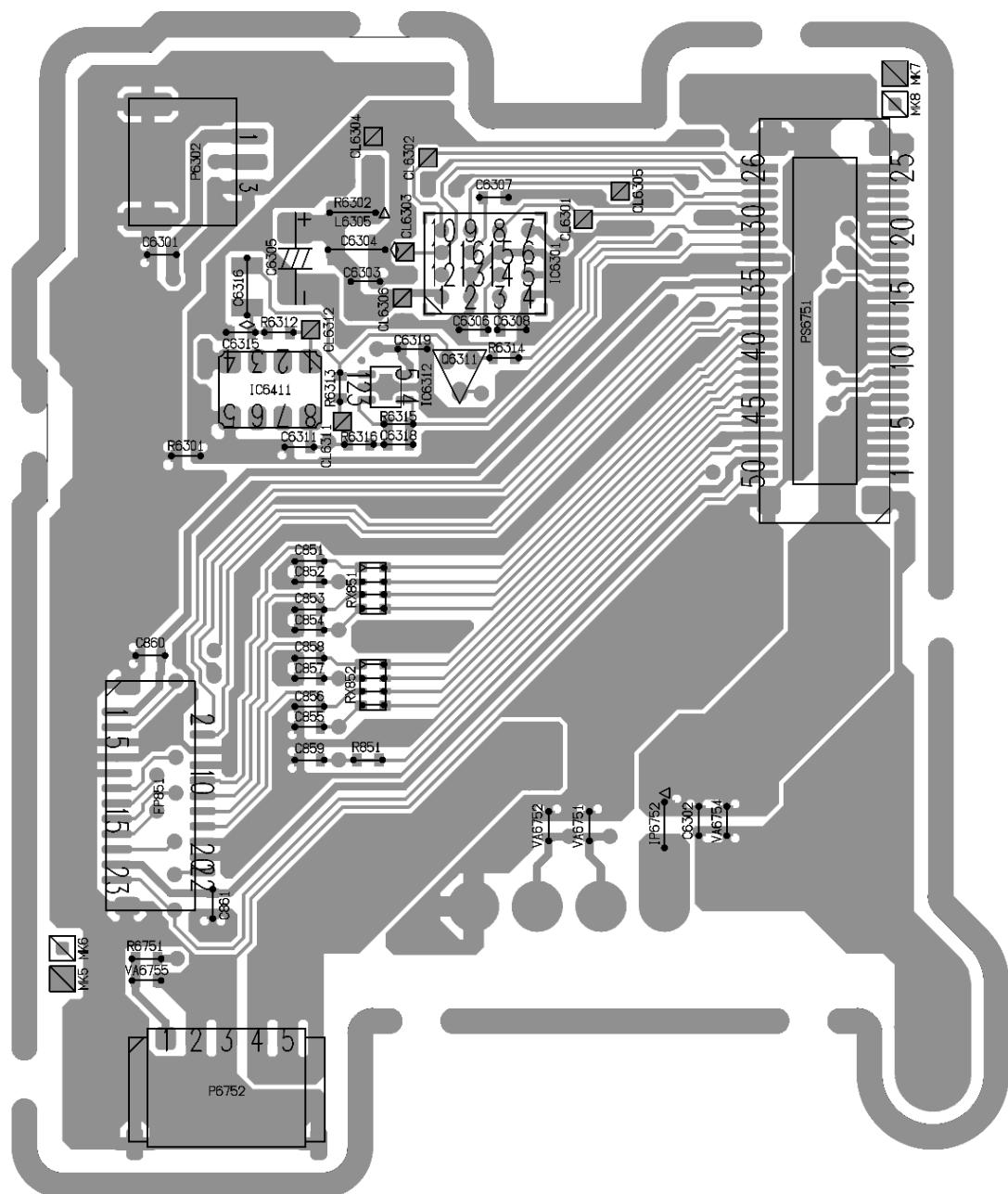
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG SD OP P.C.B.(Component Side)



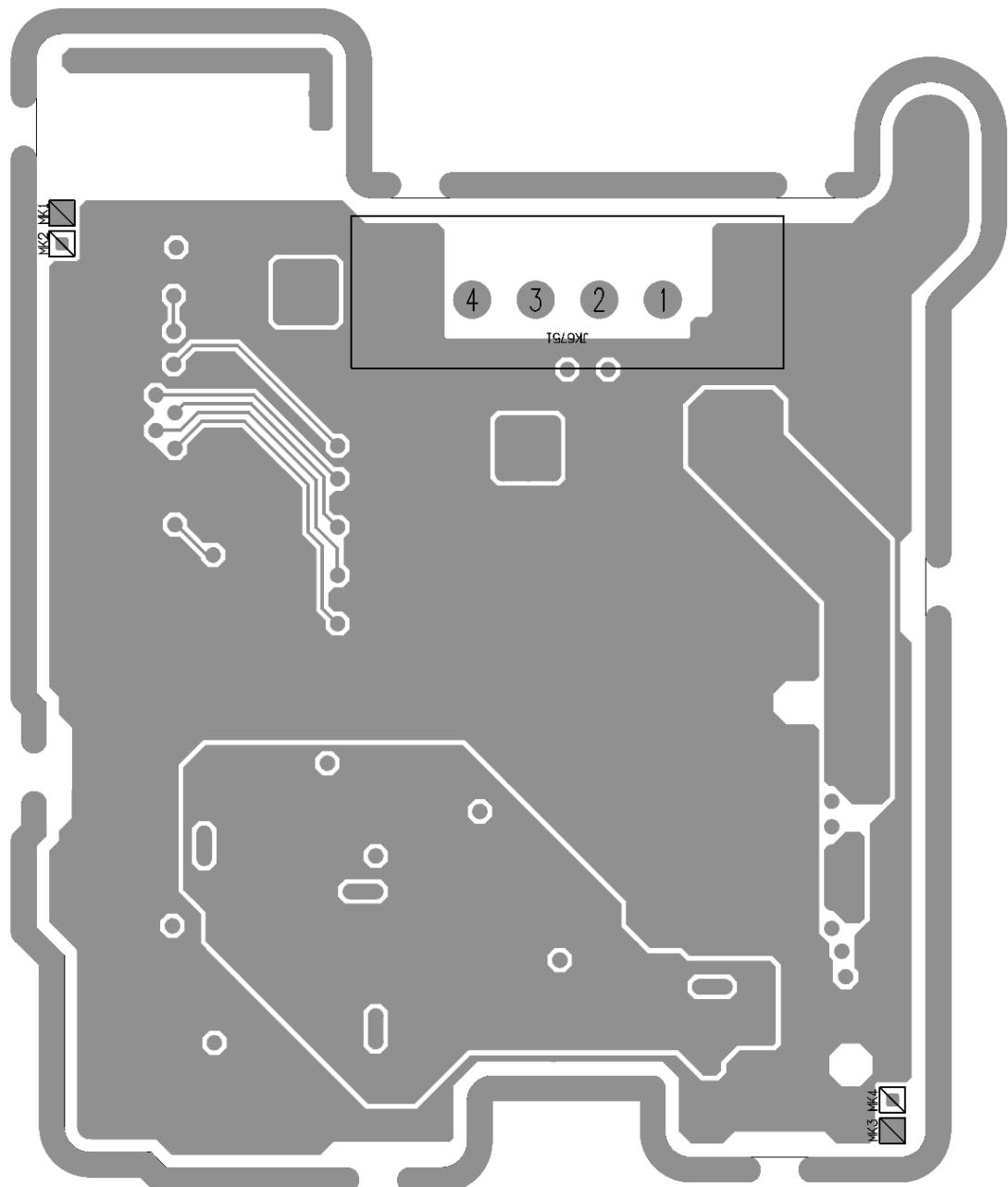
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG SD OP P.C.B.(Foil Side)



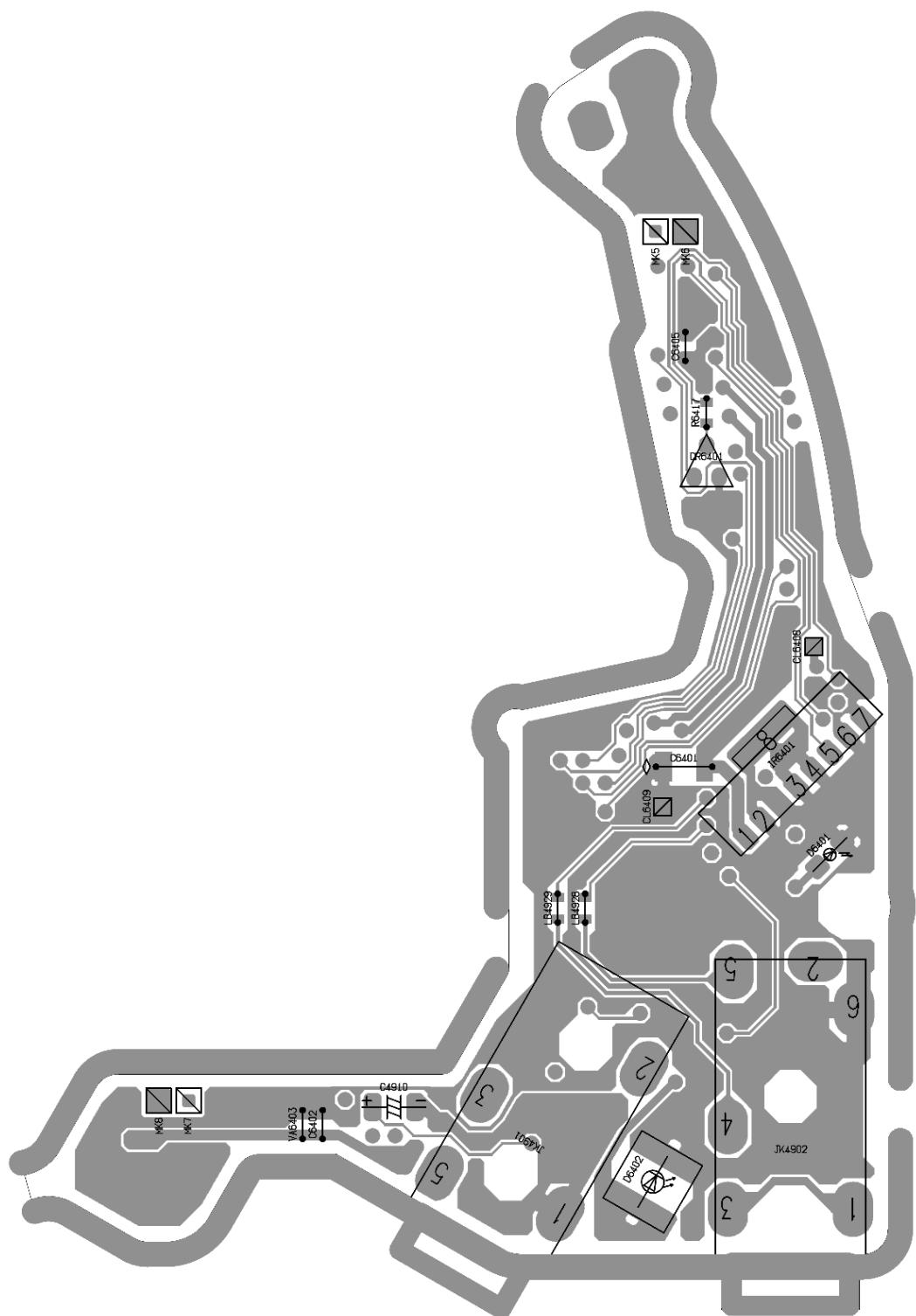
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Battery Catcher P.C.B.(Component Side)



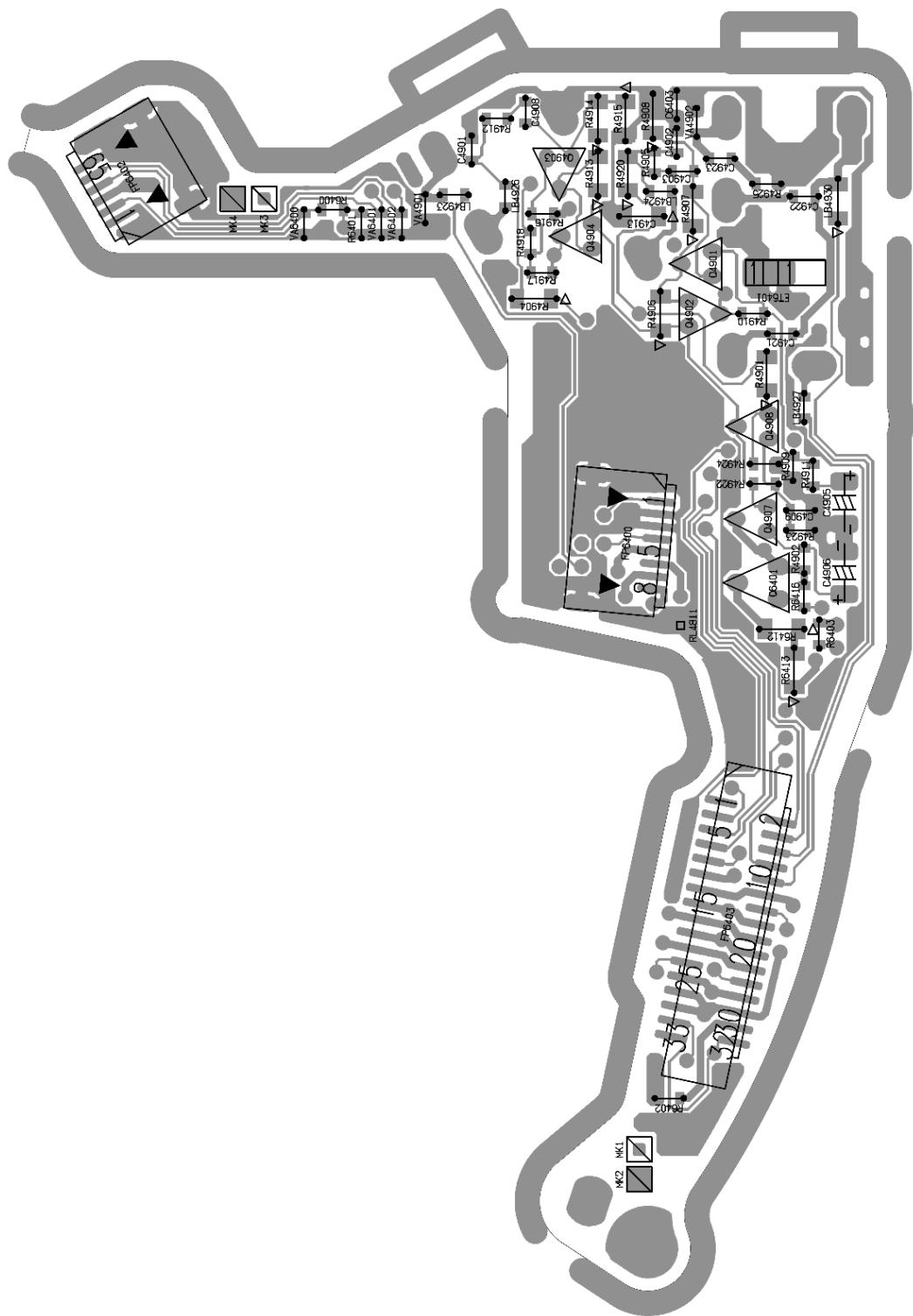
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Battery Catcher P.C.B.(Foil Side)



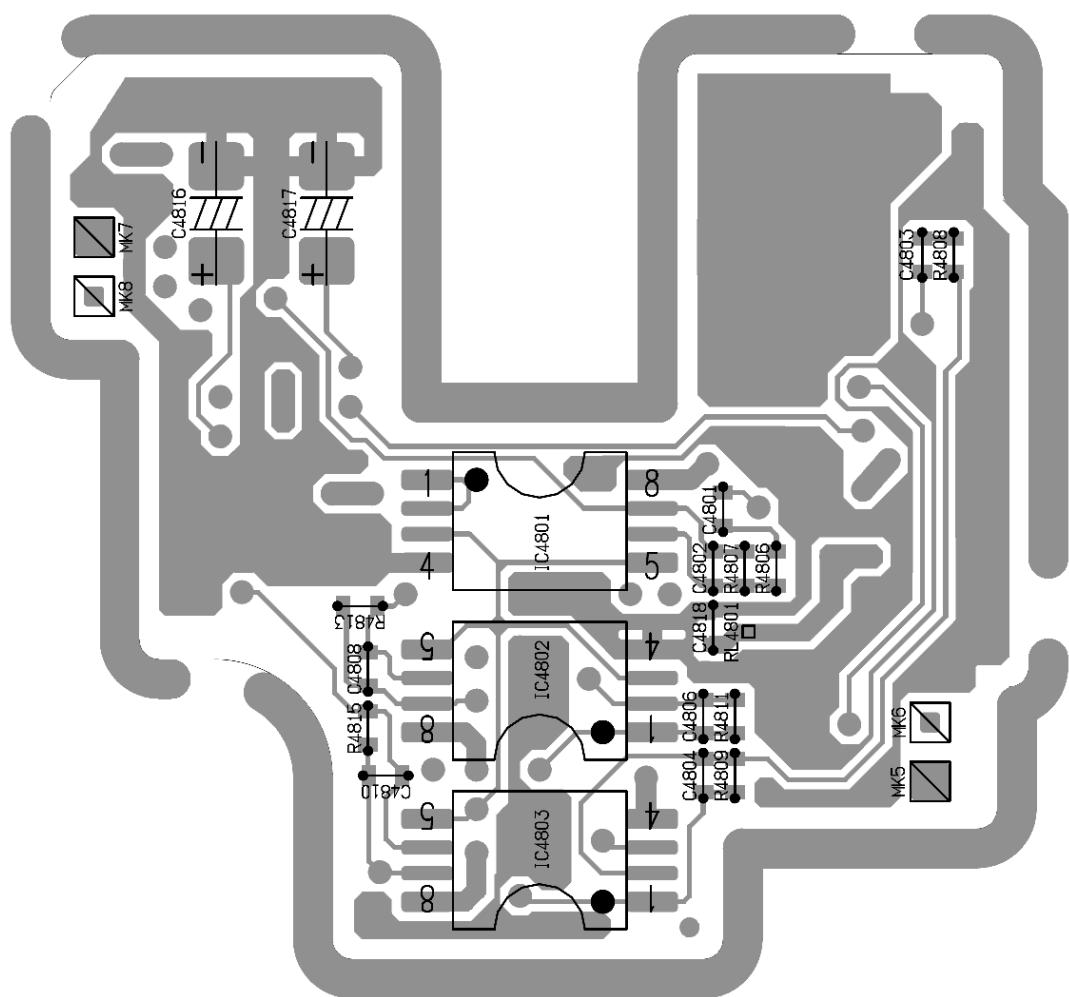
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Front P.C.B.(Component Side)



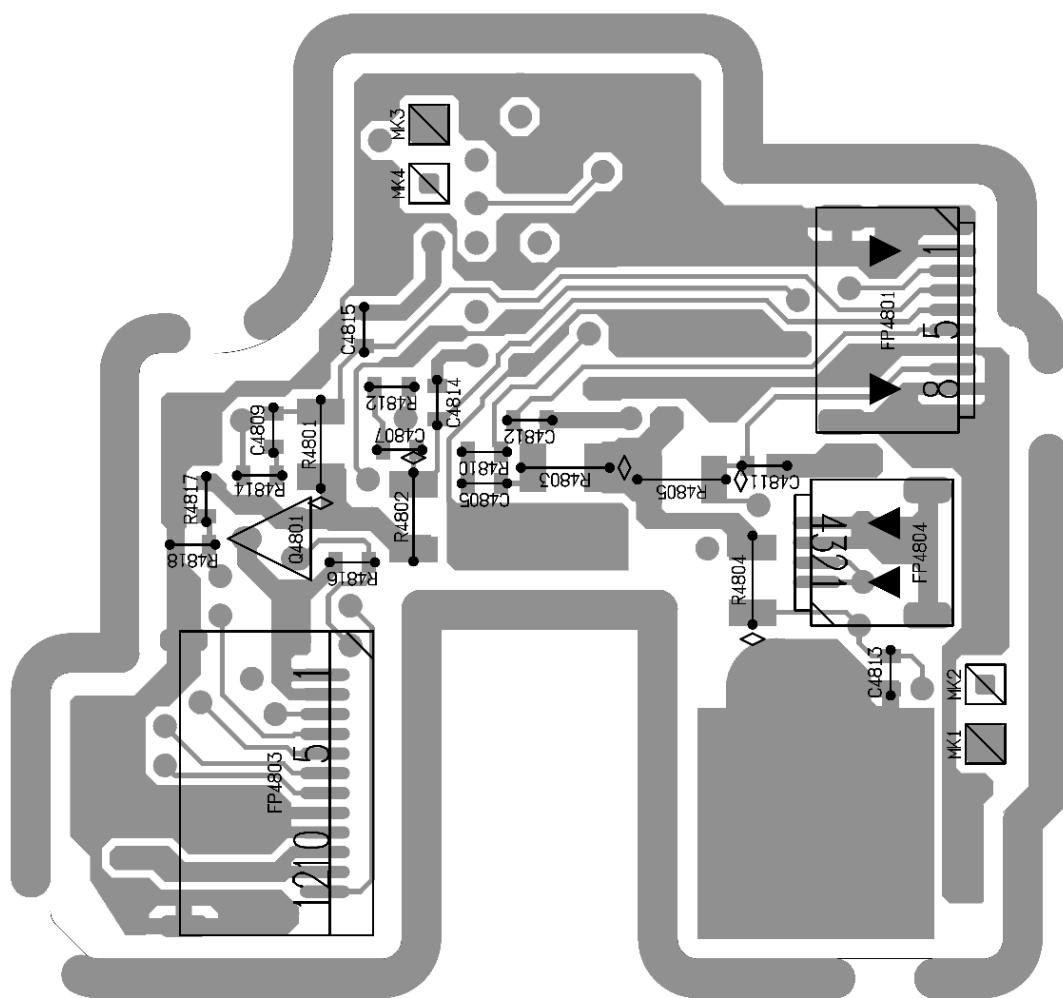
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Front P.C.B.(Foil Side)



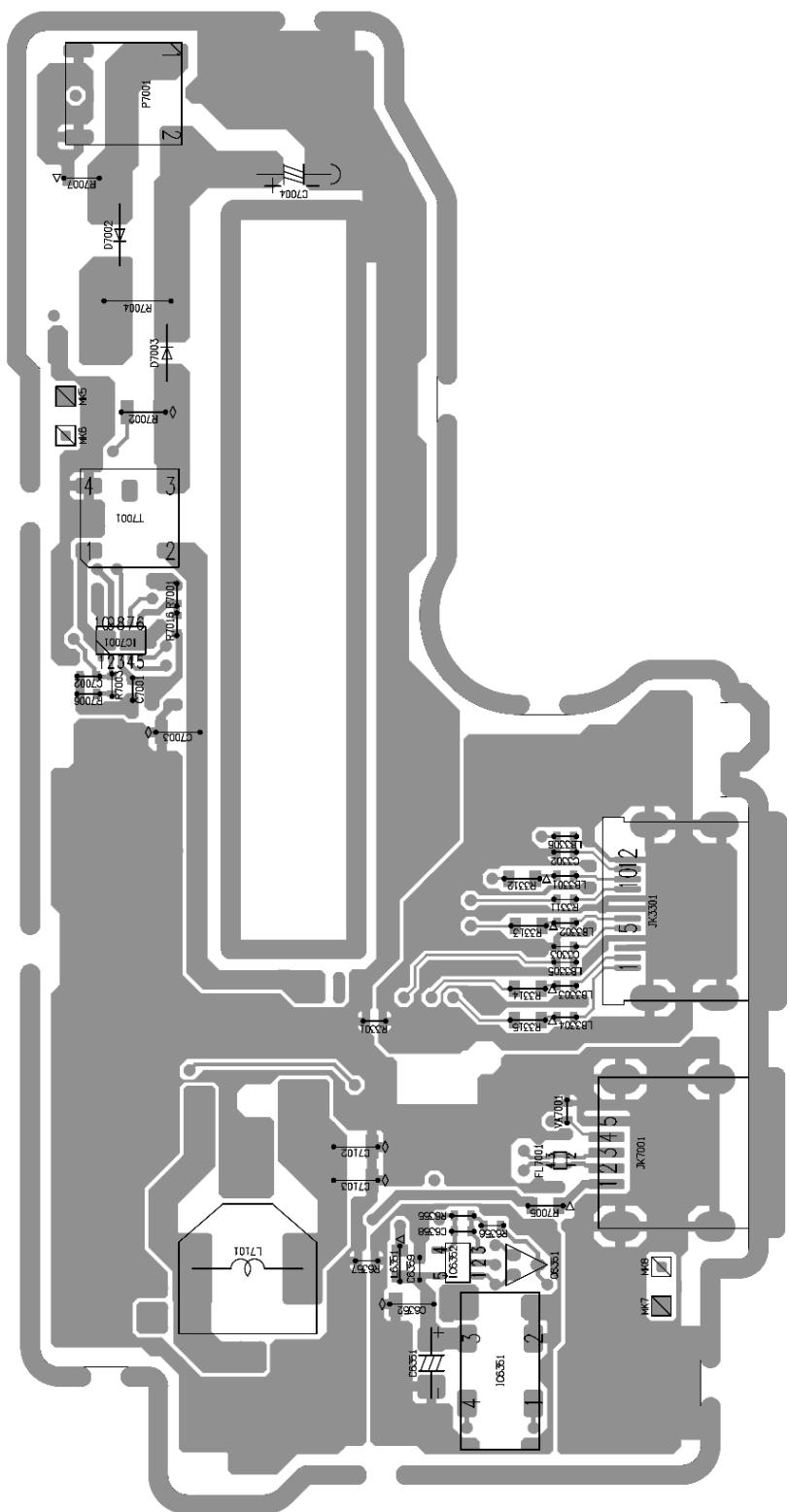
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Mic Amp P.C.B.(Component Side)



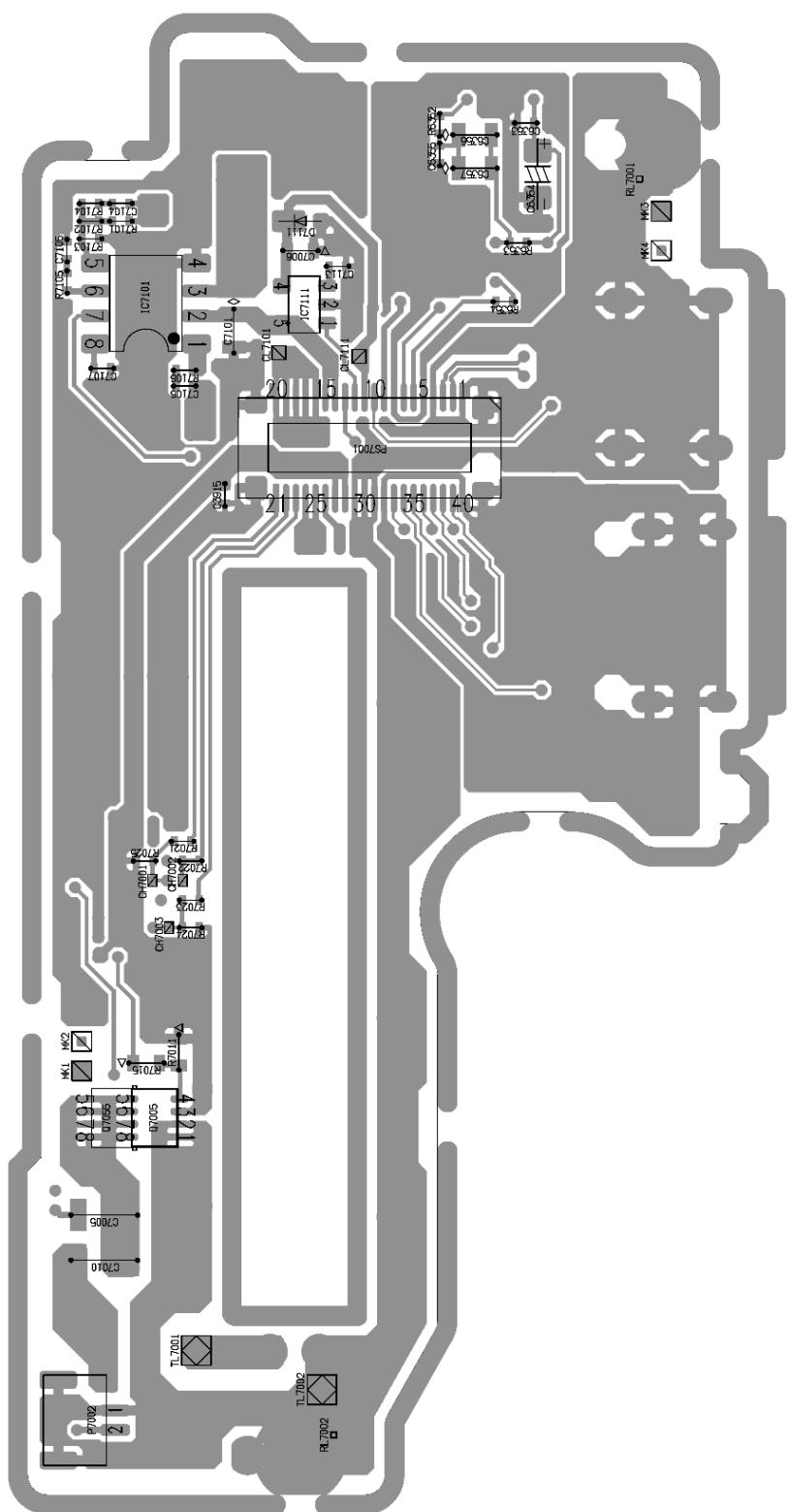
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Mic Amp P.C.B.(Foil Side)



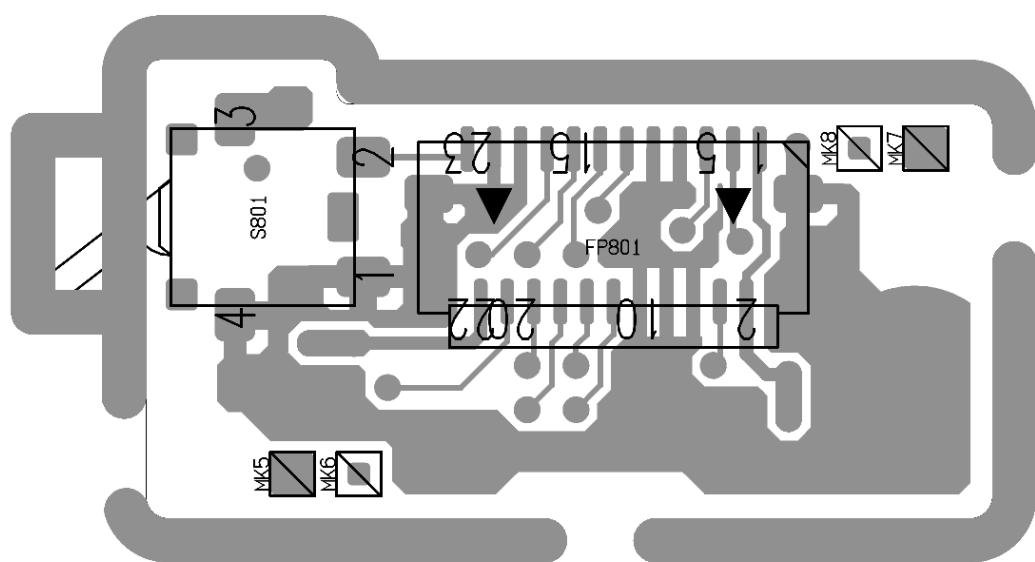
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Flash P.C.B.(Component Side)



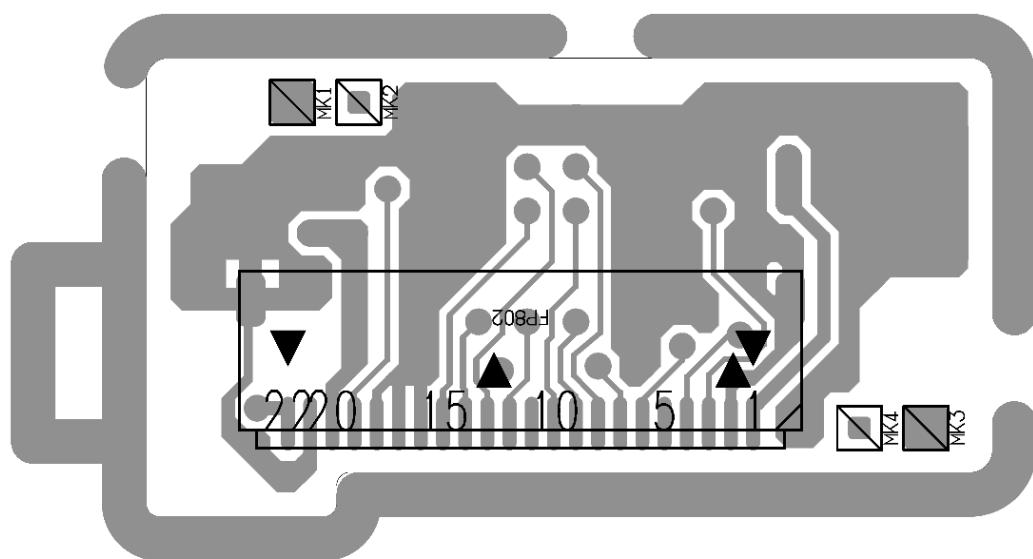
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Flash P.C.B.(Foil Side)



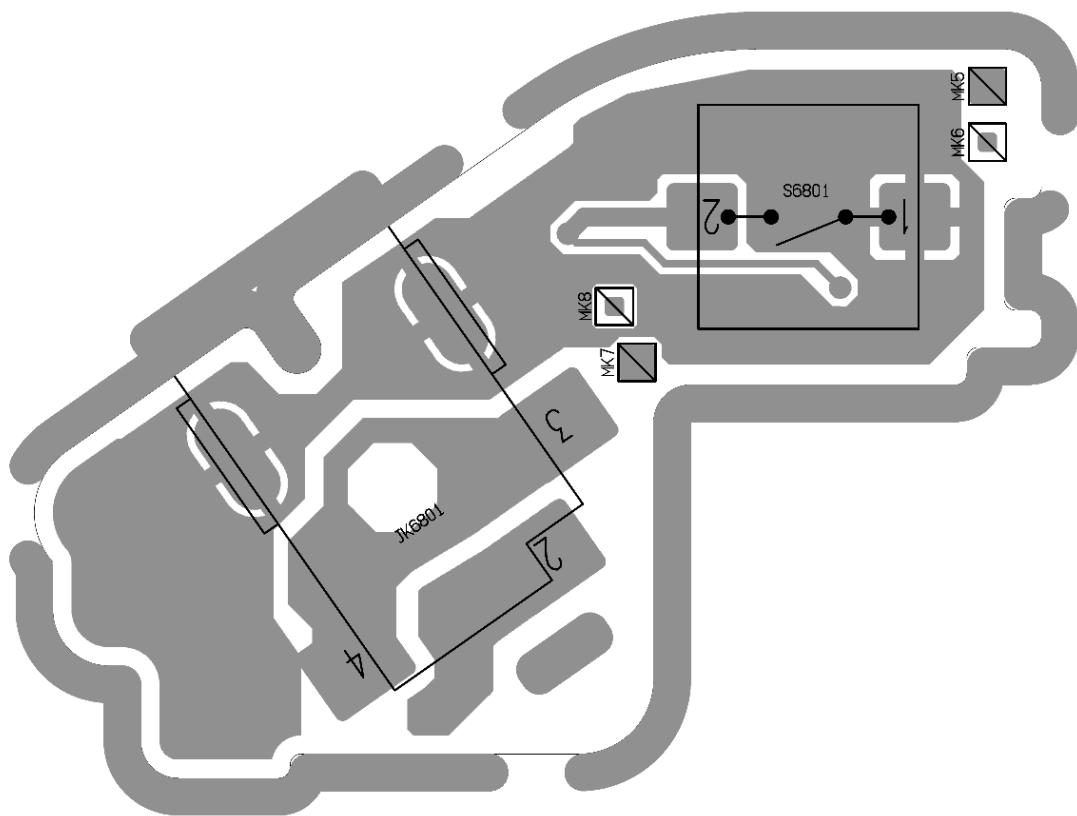
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG EVF EXT P.C.B.(Component Side)



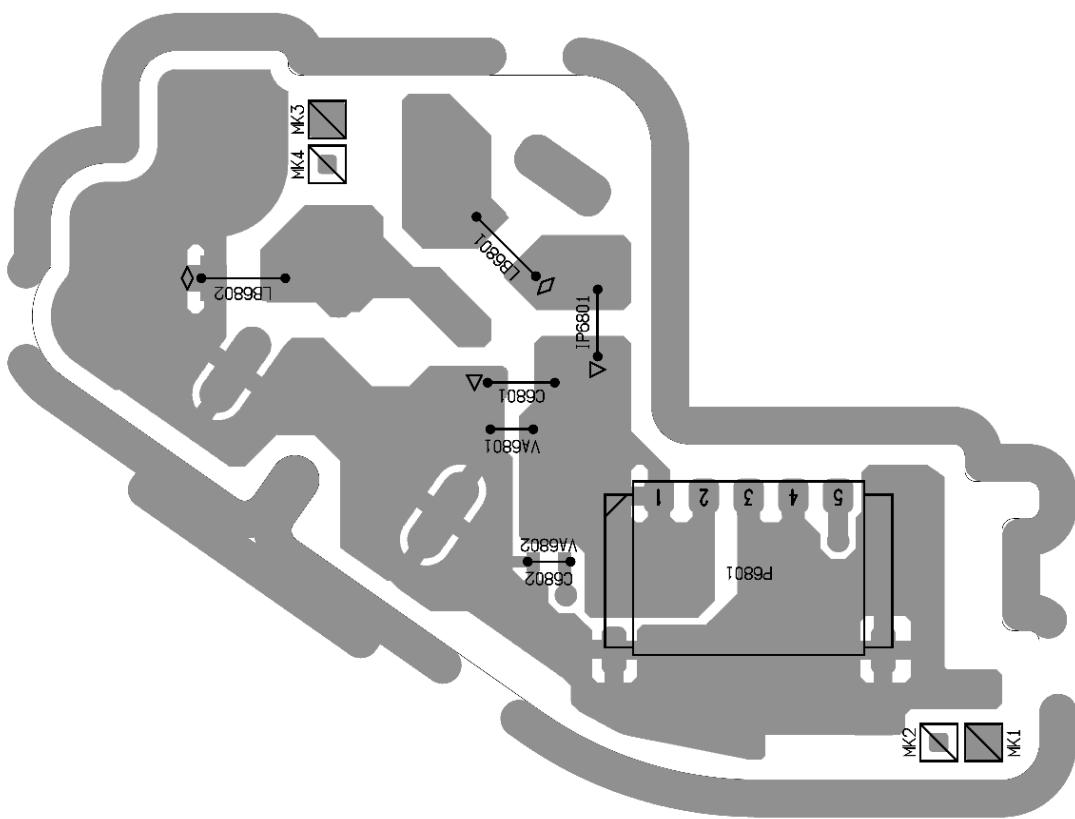
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG EVF EXT P.C.B.(Foil Side)



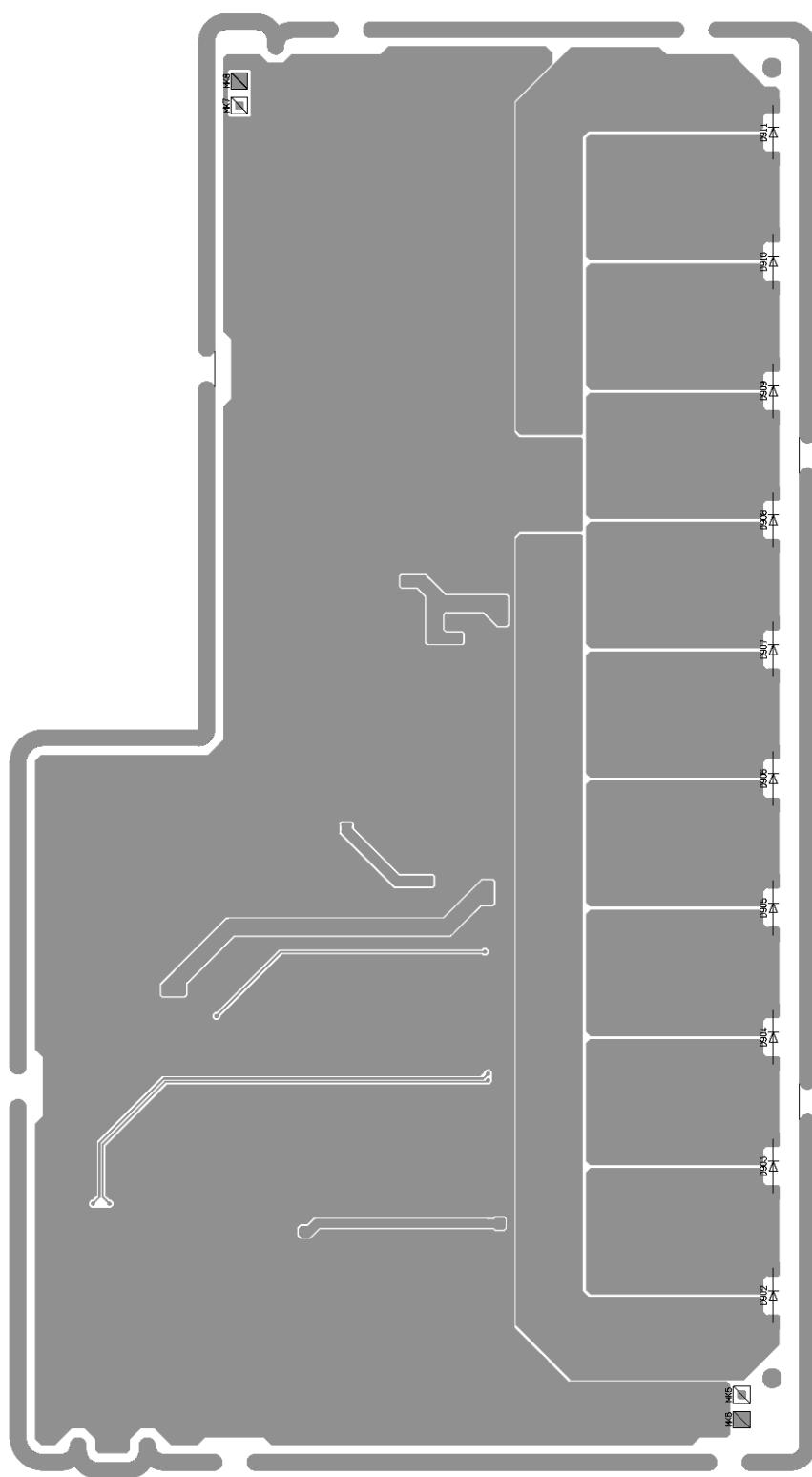
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG DC Jack P.C.B.(Component Side)



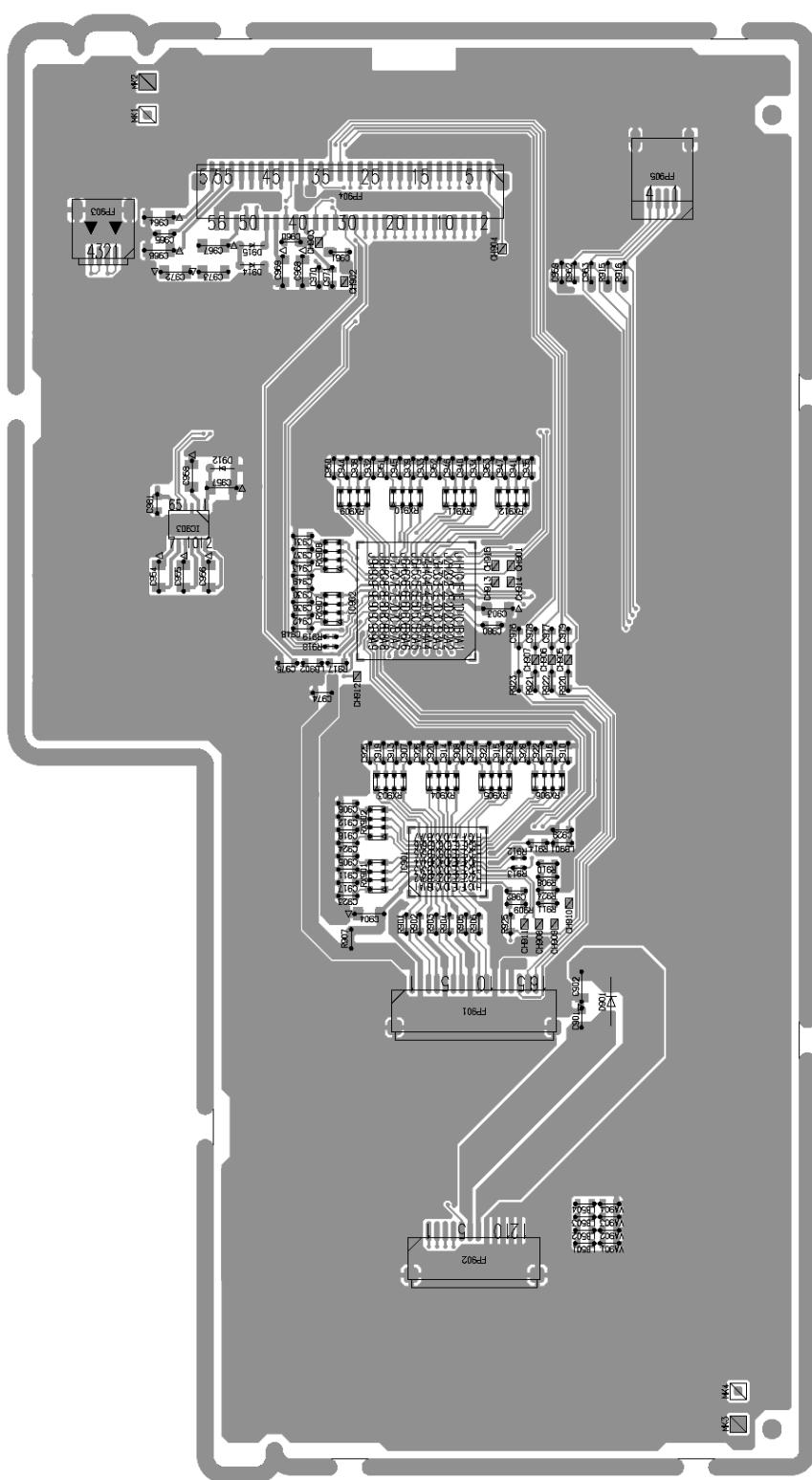
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG DC Jack P.C.B.(Foil Side)



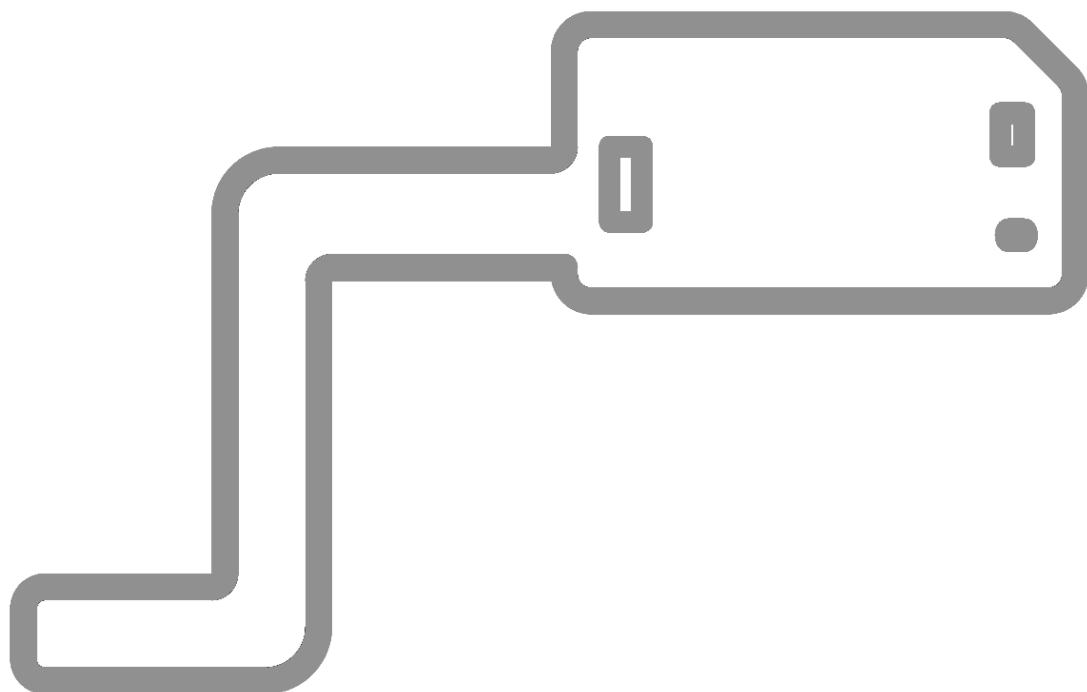
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Monitor P.C.B.(Component Side)



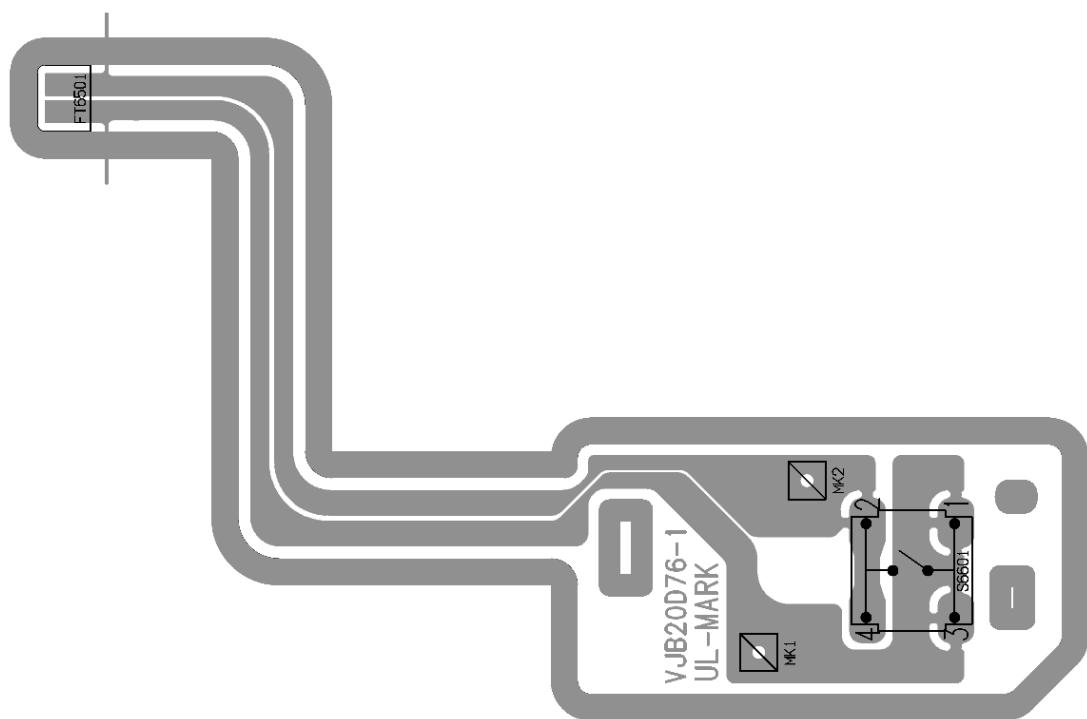
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Monitor P.C.B.(Foil Side)



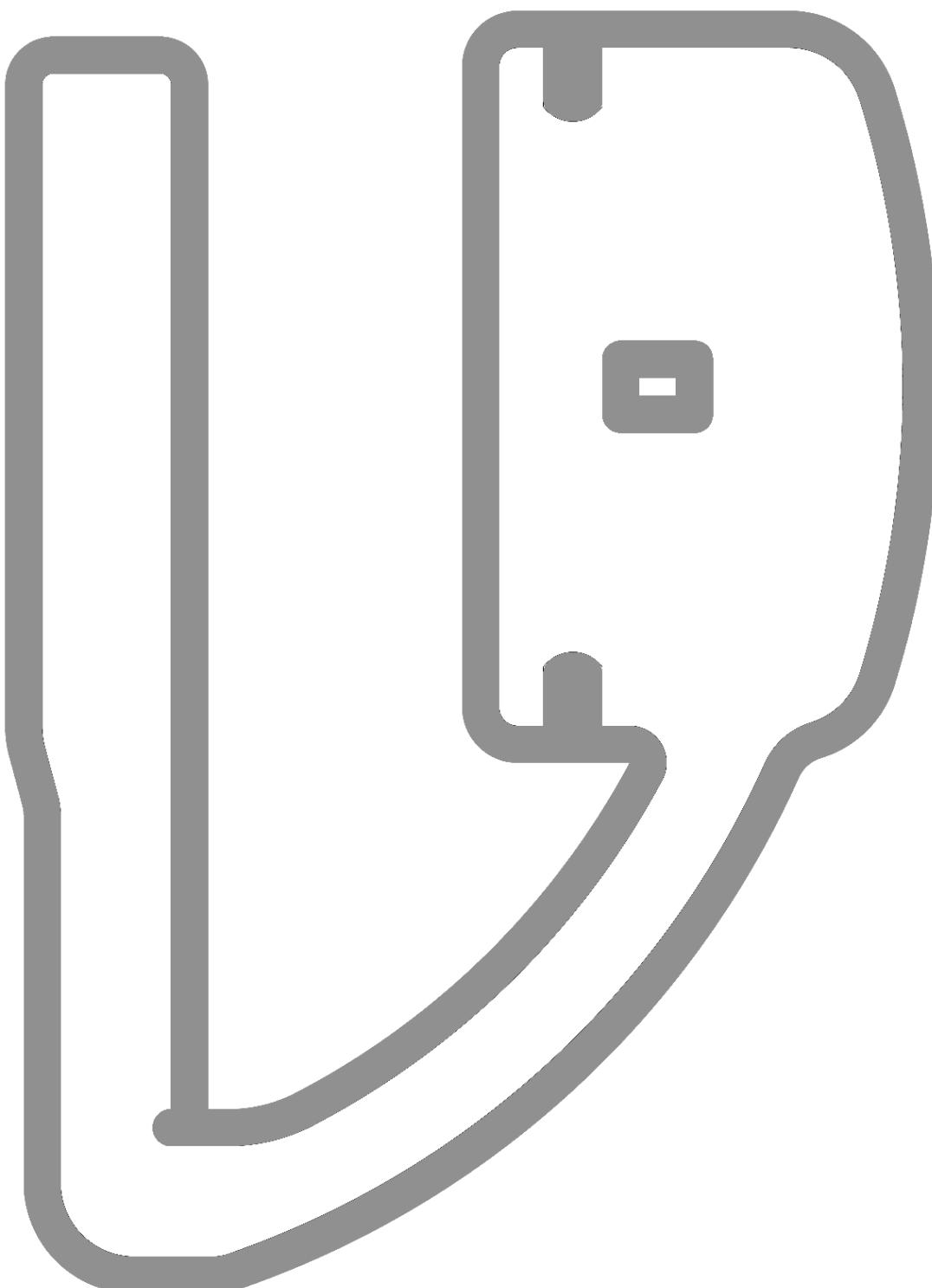
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Cam Func P.C.B.(Component Side)



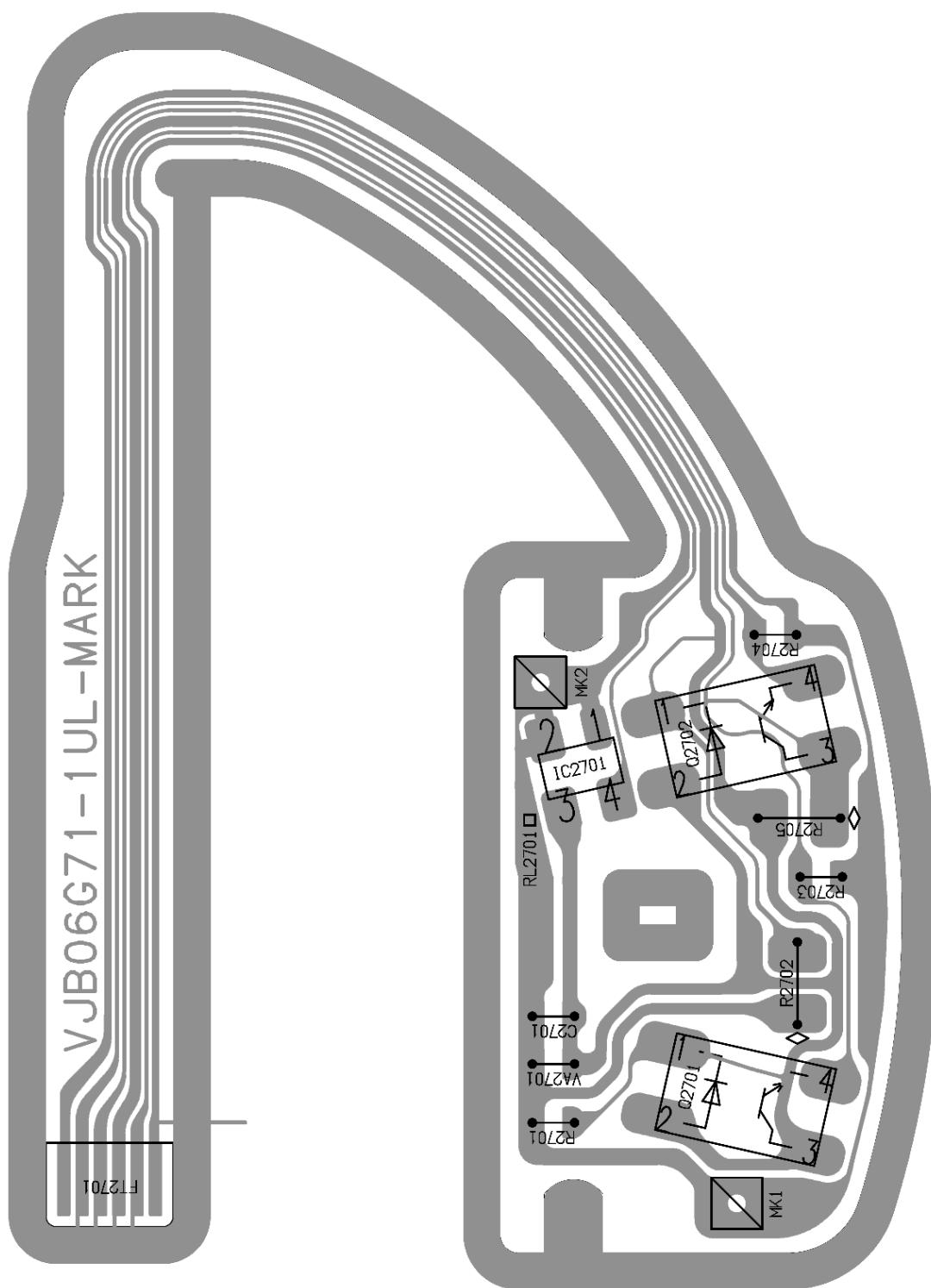
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Cam Func P.C.B.(Foil Side)



Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG MF Holl Detect P.C.B.(Component Side)



Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG MF Holl Detect P.C.B.(Foil Side)



Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
!	B3901	N4ECY14Y0004	BATTERY	1	[ENERGY]
	C302	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C303	F1J0J1060009	C.CAPACITOR CH 6.3V 10U	1	
	C307	F1J0J1060009	C.CAPACITOR CH 6.3V 10U	1	
	C309	F1J0J1060009	C.CAPACITOR CH 6.3V 10U	1	
	C310	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C311	F1L1A103A016	C.CAPACITOR CH 10V 0.01U	1	
	C313	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C315	F1J0J1060009	C.CAPACITOR CH 6.3V 10U	1	
	C316	F1L0J1040001	C.CAPACITOR CH 6.3V 0.1U	1	
	C317	F1L0J1040001	C.CAPACITOR CH 6.3V 0.1U	1	
	C319	F1J0J1060009	C.CAPACITOR CH 6.3V 10U	1	
	C320	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C321	F1J0J1060009	C.CAPACITOR CH 6.3V 10U	1	
	C322	F1J0J1060009	C.CAPACITOR CH 6.3V 10U	1	
	C323	F3F0G4760004	E.CAPACITOR CH 4V 47U	1	
	C324	F1J0J1060009	C.CAPACITOR CH 6.3V 10U	1	
	C325	F3F0G4760004	E.CAPACITOR CH 4V 47U	1	
	C326	F1J0J1060009	C.CAPACITOR CH 6.3V 10U	1	
	C327	F1L0J1040001	C.CAPACITOR CH 6.3V 0.1U	1	
	C329	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C330	F1L0J1040001	C.CAPACITOR CH 6.3V 0.1U	1	
	C331	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C332	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C334	F1J0J1060009	C.CAPACITOR CH 6.3V 10U	1	
	C335	F1L1A103A016	C.CAPACITOR CH 10V 0.01U	1	
	C336	F1L0J1040001	C.CAPACITOR CH 6.3V 0.1U	1	
	C337	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C338	F1L1A103A016	C.CAPACITOR CH 10V 0.01U	1	
	C701	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C702	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C703	F1J0J106A049	C.CAPACITOR CH 6.3V 10U	1	
	C704	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C705	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C708	F1J0J106A049	C.CAPACITOR CH 6.3V 10U	1	
	C709	F1J0J106A049	C.CAPACITOR CH 6.3V 10U	1	
	C713	F1G1H101A644	C.CAPACITOR CH 50V 100P	1	
	C714	F1G1H101A644	C.CAPACITOR CH 50V 100P	1	
	C715	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C716	F1L1A103A016	C.CAPACITOR CH 10V 0.01U	1	
	C718	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
	C719	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
	C721	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
	C723	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
	C724	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
	C725	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
	C726	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
	C727	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
	C728	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
	C729	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
	C730	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
	C731	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C732	F1G1H472A571	C.CAPACITOR CH 50V 4700P	1	
	C733	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C734	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C735	F1G1A473A032	C.CAPACITOR CH 10V 0.047U	1	
	C736	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
	C742	F1G1H471A640	C.CAPACITOR CH 50V 470P	1	
	C743	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
	C744	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
	C751	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C761	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	

Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	C762	F1G1H472A571	C.CAPACITOR CH 50V 4700P	1	
	C763	F1G1H472A571	C.CAPACITOR CH 50V 4700P	1	
	C851	F1G1H330A644	C.CAPACITOR CH 50V 33P	1	
	C852	F1G1H330A644	C.CAPACITOR CH 50V 33P	1	
	C853	F1G1H330A644	C.CAPACITOR CH 50V 33P	1	
	C854	F1G1H330A644	C.CAPACITOR CH 50V 33P	1	
	C855	F1G1H330A644	C.CAPACITOR CH 50V 33P	1	
	C856	F1G1H330A644	C.CAPACITOR CH 50V 33P	1	
	C857	F1G1H330A644	C.CAPACITOR CH 50V 33P	1	
	C858	F1G1H330A644	C.CAPACITOR CH 50V 33P	1	
	C860	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C861	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C901	F1G1H101A644	C.CAPACITOR CH 50V 100P	1	
	C902	F1H1H104A748	C.CAPACITOR CH 50V 0.1U	1	
	C903	F1H0J4750004	C.CAPACITOR CH 6.3V 4.7U	1	
	C904	F1H0J4750004	C.CAPACITOR CH 6.3V 4.7U	1	
	C905	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C906	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C907	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C908	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C909	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C910	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C911	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C912	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C913	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C914	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C915	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C916	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C917	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C918	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C919	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C920	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C921	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C922	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C923	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C924	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C925	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C926	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C927	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C928	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C930	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C931	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C932	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C933	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C934	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C935	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C936	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C937	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C938	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C939	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C940	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C941	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C942	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C943	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C944	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C945	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C946	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C947	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C948	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C949	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C950	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C951	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	

Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	C952	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C953	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C954	ECJ1VB1A105K	C.CAPACITOR CH 10V 1U	1	
	C955	ECJ1VB1A105K	C.CAPACITOR CH 10V 1U	1	
	C956	ECJ1VB1A105K	C.CAPACITOR CH 10V 1U	1	
	C957	F1H1A225A051	C.CAPACITOR CH 10V 2.2U	1	
	C958	F1H1A225A051	C.CAPACITOR CH 10V 2.2U	1	
	C959	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C960	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C961	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C962	F1G1H102A640	C.CAPACITOR CH 50V 1000P	1	
	C963	F1G1H102A640	C.CAPACITOR CH 50V 1000P	1	
	C964	F1H0J2250008	C.CAPACITOR CH 6.3V 2.2U	1	
	C965	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C966	F1H1E105A116	C.CAPACITOR CH 25V 1U	1	
	C967	F1H1E105A116	C.CAPACITOR CH 25V 1U	1	
	C968	ECJ1VB1A105K	C.CAPACITOR CH 10V 1U	1	
	C969	ECJ1VB1A105K	C.CAPACITOR CH 10V 1U	1	
	C970	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C971	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C972	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
	C973	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
	C974	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C980	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C1011	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
	C1012	F1G1H102A640	C.CAPACITOR CH 50V 1000P	1	
	C1013	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C1101	F1G1A473A032	C.CAPACITOR CH 10V 0.047U	1	
	C1103	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C1104	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C1105	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C1106	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
	C1107	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C1109	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C1112	F1G1H472A571	C.CAPACITOR CH 50V 4700P	1	
	C1122	F1G1H472A571	C.CAPACITOR CH 50V 4700P	1	
	C1132	F1G1H332A640	C.CAPACITOR CH 50V 3300P	1	
	C1142	F1G1H102A640	C.CAPACITOR CH 50V 1000P	1	
	C1162	F1G1H472A571	C.CAPACITOR CH 50V 4700P	1	
	C1211	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
	C1212	F1J0J106A049	C.CAPACITOR CH 6.3V 10U	1	
	C1222	F1J0J106A049	C.CAPACITOR CH 6.3V 10U	1	
	C1231	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
	C1232	F1J0J106A049	C.CAPACITOR CH 6.3V 10U	1	
	C1233	F1G1H332A640	C.CAPACITOR CH 50V 3300P	1	
	C1241	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
	C1242	F1J0J106A049	C.CAPACITOR CH 6.3V 10U	1	
	C1243	F1G1H102A640	C.CAPACITOR CH 50V 1000P	1	
	C1262	F1J0J106A049	C.CAPACITOR CH 6.3V 10U	1	
	C1326	F3F0J476A057	E.CAPACITOR CH 6.3V 47U	1	
	C1423	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C1425	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C1431	F1H0J4750004	C.CAPACITOR CH 6.3V 4.7U	1	
	C1450	F1H0J4750004	C.CAPACITOR CH 6.3V 4.7U	1	
	C1501	F1H1E105A116	C.CAPACITOR CH 25V 1U	1	
	C1503	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C1504	F1G1B1030005	C.CAPACITOR CH 25V 0.01U	1	
	C1505	F1G1H101A644	C.CAPACITOR CH 50V 100P	1	
	C1506	F1G1H332A640	C.CAPACITOR CH 50V 3300P	1	
	C1507	F1G1H101A644	C.CAPACITOR CH 50V 100P	1	
	C1508	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C1509	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	

Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	C1510	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C1511	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C1513	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
	C1514	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C1515	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C1516	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
	C1517	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
	C1518	F1G1H101A644	C.CAPACITOR CH 50V 100P	1	
	C1519	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C1522	F1G1E1040001	C.CAPACITOR CH 25V 0.1U	1	
	C1601	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
	C1602	F1J1H3340002	C.CAPACITOR CH 50V 0.33U	1	
	C1603	F1K1H475A256	C.CAPACITOR CH 50V 4.7U	1	
	C1604	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
	C2301	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C2303	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C2304	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C2305	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C2701	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C3302	F1G1H472A571	C.CAPACITOR CH 50V 4700P	1	
	C3303	F1G1H472A571	C.CAPACITOR CH 50V 4700P	1	
	C3401	F1H0J106A009	C.CAPACITOR CH 6.3V 10U	1	
	C3402	F1J0J106A049	C.CAPACITOR CH 6.3V 10U	1	
	C3403	F1H0J4750004	C.CAPACITOR CH 6.3V 4.7U	1	
	C3406	F1L0J1040001	C.CAPACITOR CH 6.3V 0.1U	1	
	C3407	F1H0J106A009	C.CAPACITOR CH 6.3V 10U	1	
	C3408	F1H0J106A009	C.CAPACITOR CH 6.3V 10U	1	
	C3409	F1L0J1040001	C.CAPACITOR CH 6.3V 0.1U	1	
	C3410	F1L0J1040001	C.CAPACITOR CH 6.3V 0.1U	1	
	C3411	F1L0J1040001	C.CAPACITOR CH 6.3V 0.1U	1	
	C3412	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3413	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3414	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3415	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3416	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3417	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3418	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3419	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3420	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3421	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3423	F1J0J106A049	C.CAPACITOR CH 6.3V 10U	1	
	C3424	F1J0J106A049	C.CAPACITOR CH 6.3V 10U	1	
	C3425	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3426	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3427	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3428	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3429	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3430	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3431	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3432	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3433	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3434	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3435	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3436	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3437	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3438	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3439	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3440	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3441	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3442	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3443	F1J0J1060009	C.CAPACITOR CH 6.3V 10U	1	
	C3444	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	

Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	C3445	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3446	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3447	F1H0J106A009	C.CAPACITOR CH 6.3V 10U	1	
	C3448	F1L0J1040001	C.CAPACITOR CH 6.3V 0.1U	1	
	C3450	F1L1A103A016	C.CAPACITOR CH 10V 0.01U	1	
	C3451	F1G1H472A571	C.CAPACITOR CH 50V 4700P	1	
	C3452	F1L0J1040001	C.CAPACITOR CH 6.3V 0.1U	1	
	C3453	F1L1A103A016	C.CAPACITOR CH 10V 0.01U	1	
	C3454	F1L1A103A016	C.CAPACITOR CH 10V 0.01U	1	
	C3455	F1L1A103A016	C.CAPACITOR CH 10V 0.01U	1	
	C3456	F1L1A103A016	C.CAPACITOR CH 10V 0.01U	1	
	C3457	F1G1H102A640	C.CAPACITOR CH 50V 1000P	1	
	C3459	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3460	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3461	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C3462	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C3464	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3465	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
	C3466	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
	C3467	F1L0J1040001	C.CAPACITOR CH 6.3V 0.1U	1	
	C3470	F1J0J106A049	C.CAPACITOR CH 6.3V 10U	1	
	C3471	F1J0J106A049	C.CAPACITOR CH 6.3V 10U	1	
	C3472	F1L0J1040001	C.CAPACITOR CH 6.3V 0.1U	1	
	C3473	F1L0J1040001	C.CAPACITOR CH 6.3V 0.1U	1	
	C3701	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C3702	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3703	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3704	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3705	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3706	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3707	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C3708	F1H0J4750004	C.CAPACITOR CH 6.3V 4.7U	1	
	C3709	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C3710	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
	C3711	F1L1A103A016	C.CAPACITOR CH 10V 0.01U	1	
	C3712	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
	C3713	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C3714	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C3715	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C3716	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C3720	F1J0J106A049	C.CAPACITOR CH 6.3V 10U	1	
	C3721	F3F0J226A016	T.CAPACITOR CH 6.3V 22U	1	
	C3722	F1J0J106A049	C.CAPACITOR CH 6.3V 10U	1	
	C3906	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3907	F3G0J107A011	C.CAPACITOR CH 6.3V 100U	1	
	C3908	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
	C3909	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3910	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
	C3911	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C3921	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3922	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C3923	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C3956	F1L1A103A016	C.CAPACITOR CH 10V 0.01U	1	(HC-X900M)
	C4801	F1G1A473A032	C.CAPACITOR CH 10V 0.047U	1	
	C4802	F1G1H680A644	C.CAPACITOR CH 50V 68P	1	
	C4803	F1G1A473A032	C.CAPACITOR CH 10V 0.047U	1	
	C4804	F1G1H680A644	C.CAPACITOR CH 50V 68P	1	
	C4805	F1G1A473A032	C.CAPACITOR CH 10V 0.047U	1	
	C4806	F1G1H680A644	C.CAPACITOR CH 50V 68P	1	
	C4807	F1G1A473A032	C.CAPACITOR CH 10V 0.047U	1	
	C4808	F1G1H680A644	C.CAPACITOR CH 50V 68P	1	
	C4809	F1G1A473A032	C.CAPACITOR CH 10V 0.047U	1	

Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	C4810	F1G1H680A644	C.CAPACITOR CH 50V 68P	1	
	C4811	F1G1H471A640	C.CAPACITOR CH 50V 470P	1	
	C4812	F1G1H471A640	C.CAPACITOR CH 50V 470P	1	
	C4813	F1G1H471A640	C.CAPACITOR CH 50V 470P	1	
	C4814	F1G1H471A640	C.CAPACITOR CH 50V 470P	1	
	C4815	F1G1H471A640	C.CAPACITOR CH 50V 470P	1	
	C4816	F3F0J226A016	T.CAPACITOR CH 6.3V 22U	1	
	C4817	F3F0J226A016	T.CAPACITOR CH 6.3V 22U	1	
	C4818	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C4901	F1G1H472A571	C.CAPACITOR CH 50V 4700P	1	
	C4902	F1G1H472A571	C.CAPACITOR CH 50V 4700P	1	
	C4903	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C4905	F3E0J226A027	E.CAPACITOR CH 6.3V 22U	1	
	C4906	F3H0J1060008	E.CAPACITOR CH 6.3V 10U	1	
	C4908	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C4909	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C4910	F3E0J226A027	E.CAPACITOR CH 6.3V 22U	1	
	C4913	F1H0J4750004	C.CAPACITOR CH 6.3V 4.7U	1	
	C4921	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
	C4922	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
	C4923	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C6002	F1G1H103A738	C.CAPACITOR CH 50V 0.01U	1	
	C6003	F1G1H221A640	C.CAPACITOR CH 50V 220P	1	
	C6005	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C6006	F1L0J1040001	C.CAPACITOR CH 6.3V 0.1U	1	
	C6007	F1L0J1040001	C.CAPACITOR CH 6.3V 0.1U	1	
	C6008	F1L0J1040001	C.CAPACITOR CH 6.3V 0.1U	1	
	C6009	F1L0J1040001	C.CAPACITOR CH 6.3V 0.1U	1	
	C6024	F1L0J1040001	C.CAPACITOR CH 6.3V 0.1U	1	
	C6025	F1L0J1040001	C.CAPACITOR CH 6.3V 0.1U	1	
	C6098	F1L0J1040001	C.CAPACITOR CH 6.3V 0.1U	1	
	C6099	F1L0J1040001	C.CAPACITOR CH 6.3V 0.1U	1	
	C6112	F1L0J1040001	C.CAPACITOR CH 6.3V 0.1U	1	
	C6301	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C6302	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C6304	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
	C6306	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C6307	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C6308	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C6352	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
	C6353	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C6355	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
	C6356	F1J0J226A088	C.CAPACITOR CH 6.3V 22U	1	
	C6359	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C6401	F1J0J1060009	C.CAPACITOR CH 6.3V 10U	1	
	C6403	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C6405	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C6801	F1H1E105A116	C.CAPACITOR CH 25V 1U	1	
	C7001	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
	C7002	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
	C7003	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
	C7004	F2A2F4600001	CAPACITOR	1	
	C7005	F1K2E4730005	C.CAPACITOR 250V 0.047U	1	
	C7006	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
	C7010	F1K2E223A004	C.CAPACITOR 250V 0.022U	1	
	C7101	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
	C7102	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
	C7103	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
	C7105	F1G1H472A571	C.CAPACITOR CH 50V 4700P	1	
	C7106	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
	C7107	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
	C7113	F1G1H102A640	C.CAPACITOR CH 50V 1000P	1	

Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	D701	DB2S31100L	DIODE	1	E.S.D.
	D901	DZ2J360M0L	DIODE	1	E.S.D.
	D902	B3AFB0000426	LED	1	E.S.D.
	D903	B3AFB0000426	LED	1	E.S.D.
	D904	B3AFB0000426	LED	1	E.S.D.
	D905	B3AFB0000426	LED	1	E.S.D.
	D906	B3AFB0000426	LED	1	E.S.D.
	D907	B3AFB0000426	LED	1	E.S.D.
	D908	B3AFB0000426	LED	1	E.S.D.
	D909	B3AFB0000426	LED	1	E.S.D.
	D910	B3AFB0000426	LED	1	E.S.D.
	D911	B3AFB0000426	LED	1	E.S.D.
	D912	B0JCDD000001	DIODE	1	E.S.D.
	D914	B0JCDD000001	DIODE	1	E.S.D.
	D915	B0JCDD000001	DIODE	1	E.S.D.
	D1501	DB2S31100L	DIODE	1	E.S.D.
	D1502	B0JCMC000019	DIODE	1	E.S.D.
	D1503	DB2S31100L	DIODE	1	E.S.D.
	D1601	B0JCMG000016	DIODE	1	E.S.D.
	D2301	DB2S31100L	DIODE	1	E.S.D.
	D3401	DB2S31100L	DIODE	1	E.S.D.
	D3901	B3AAB0000343	LED	1	E.S.D.
	D6401	B3AAB0000343	LED	1	E.S.D.
	D6402	B3ADB0000147	DIODE	1	E.S.D.
	D7002	B0ECGP000006	DIODE	1	E.S.D.
	D7003	DA2JF8100L	DIODE	1	E.S.D.
	D7111	B0JCMD000077	DIODE	1	E.S.D.
	ET6401	K4ZZ01000208	EARTH TERMINAL	1	
	FL6001	JOZzb0000122	FILTER	1	
	FL6002	JOZzb0000122	FILTER	1	
	FL6004	F1H0J105A037	C.CAPACITOR CH 6.3V 1U	1	
	FP801	K1MY23BA0235	CONNECTOR 23P	1	
	FP802	K1MY22BA0370	CONNECTOR 22P	1	
	FP851	K1MN23AA0035	CONNECTOR 23P	1	
	FP901	K1MY16BA0159	CONNECTOR 16P	1	
	FP902	K1MY12BA0159	CONNECTOR 12P	1	
	FP903	K1MY04BA0370	CONNECTOR 4P	1	
	FP904	K1MN57BA0047	CONNECTOR 57P	1	
	FP905	K1MN04BA0262	CONNECTOR 4P	1	
	FP3901	K1MY12BA0370	CONNECTOR 12P	1	
	FP3902	K1MN12BA0197	CONNECTOR 12P	1	
	FP4801	K1MY08BA0370	CONNECTOR 8P	1	
	FP4803	K1MN12BA0197	CONNECTOR 12P	1	
	FP4804	K1MY04BA0370	CONNECTOR 4P	1	
	FP6001	K1MY33AA0199	CONNECTOR 33P	1	
	FP6002	K1MY41BA0235	CONNECTOR 41P	1	
	FP6003	K1MY21BA0281	CONNECTOR 21P	1	(HC-X900M)
	FP6004	K1MY39AA0199	CONNECTOR 39P	1	
	FP6400	K1MY08BA0370	CONNECTOR 8P	1	
	FP6402	K1MY18BA0370	CONNECTOR 18P	1	(MAIN P.C.B.)
	FP6402	K1MY06BA0370	CONNECTOR 6P	1	(FRONT P.C.B.)
	FP6403	K1MY33AA0199	CONNECTOR 33P	1	
	HS3901	K1NA09E00098	SD CARD CONNECTOR	1	
	IC301	C1AB00003724	IC	1	E.S.D.
	IC302	C0DBGFD00022	IC	1	E.S.D.
	IC303	C0JBAA000479	IC	1	E.S.D.
	IC304	C0JBAA000479	IC	1	E.S.D.
	IC701	C1AB00003719	IC	1	E.S.D.
	IC703	C0DBGYY01172	IC	1	E.S.D.
	IC704	C0DBGYY02595	IC	1	E.S.D.
	IC705	C0ABC0000121	IC	1	E.S.D.
	IC706	C0GBC0000028	IC	1	E.S.D.

Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	IC707	C0JBAB001036	IC	1	E.S.D.
	IC708	C0JBAZ003096	IC	1	E.S.D.
	IC901	C1CB00002847	IC	1	E.S.D.
	IC902	C1AB00003791	IC	1	E.S.D.
	IC903	C1ZBZ0004521	IC	1	E.S.D.
	IC1001	VUEALLPT049	IC	1	E.S.D.
	IC1011	COBCCDC00073	IC	1	E.S.D.
	IC1421	COCBCYY00078	IC	1	E.S.D.
	IC1424	C0DBGYY01175	IC	1	E.S.D.
	IC1431	C0DBGYY00534	IC	1	E.S.D.
	IC1501	VUEALLPT046	IC	1	E.S.D.
	IC1502	C0BBA000024	IC	1	E.S.D.
	IC1503	C0JBAR000432	IC	1	E.S.D.
	IC1601	C0DBCYY00138	IC	1	E.S.D.
	IC2302	C0EBK0000066	IC	1	E.S.D.
	IC2303	C0DBGYY00014	IC	1	E.S.D.
	IC2304	C1ZBZ0004142	IC	1	E.S.D.
	IC2701	B4ABC0000029	IC	1	E.S.D.
	IC3401	C1AB00003897	IC	1	E.S.D.
	IC3402	C3ABTY000070	IC	1	E.S.D.
	IC3403	TC58RYM9E12A	IC	1	E.S.D.
	IC3404	C1ZBZ0004362	IC	1	E.S.D.
	IC3405	C0EBY0000906	IC	1	E.S.D.
	IC3701	NN12924A-BB	IC	1	E.S.D.
	IC4801	C0ABBB000369	IC	1	E.S.D.
	IC4802	C0ABBB000369	IC	1	E.S.D.
	IC4803	C0ABBB000369	IC	1	E.S.D.
	IC6001	C0JBA000362	IC	1	E.S.D.
	IC6301	EWTS9PSL1A	IC	1	E.S.D.
	IC6351	L2ES00000039	IC	1	E.S.D.
	IC6352	C0ABGA000035	IC	1	E.S.D.
	IC7001	C0ZBZ0001992	IC	1	E.S.D.
	IC7101	C0DBAYY01077	IC	1	E.S.D.
	IC7111	C0CBCCC00157	IC	1	E.S.D.
⚠	IP6752	K5H402YA0080	IC PROTECTOR	1	
⚠	IP6801	K5H402YA0080	IC PROTECTOR	1	
	IR6401	B3RBB0000013	REMOTE SENSOR	1	
	JK3301	K2HZ112E0002	JACK, AV MULTI	1	
	JK4901	K2HC104B0047	JACK, EXT MIC	1	
	JK4902	K2HC106E0007	JACK, HEADPHNE	1	
	JK6751	K4ZZ04000056	JACK, BATTERY	1	
	JK6801	K2EC2E000006	JACK, DC	1	
	JK7001	K2HZ105E0013	JACK, USB	1	
	L301	G1C4R7MA0392	CHIP INDUCTOR 4.7UH	1	
	L302	G1C100MA0072	CHIP INDUCTOR 10UH	1	
	L303	G1C100MA0495	CHIP INDUCTOR 10UH	1	
	L1211	G1C100KA0148	CHIP INDUCTOR 10UH	1	
	L1221	G1C100MA0461	CHIP INDUCTOR 10UH	1	
	L1231	G1C100MA0426	CHIP INDUCTOR 10UH	1	
	L1241	G1C4R7ZA0240	CHIP INDUCTOR 4.7UH	1	
	L1261	G1C100KA0148	CHIP INDUCTOR 10UH	1	
	L1501	G1C100MA0426	CHIP INDUCTOR 10UH	1	
	L1601	G1C100MA0426	CHIP INDUCTOR 10UH	1	
	L3401	G1C100MA0495	CHIP INDUCTOR 10UH	1	
	L3402	G1C100MA0408	CHIP INDUCTOR 10UH	1	
	L3404	G1C100MA0495	CHIP INDUCTOR 10UH	1	
	L3405	G1C100MA0495	CHIP INDUCTOR 10UH	1	
	L3702	G1C4R7MA0073	CHIP INDUCTOR 4.7UH	1	
	L3704	G1C100KA0115	CHIP INDUCTOR 10UH	1	
	L6351	G1C100MA0495	CHIP INDUCTOR 10UH	1	
	L7101	G1C4R7MA0535	CHIP INDUCTOR 4.7UH	1	
	LB301	J0JBC0000099	FILTER	1	

Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	LB302	J0JBC0000099	FILTER	1	
	LB501	J0JCC0000276	FILTER	1	
	LB502	J0JCC0000276	FILTER	1	
	LB503	J0JCC0000276	FILTER	1	
	LB504	J0JCC0000276	FILTER	1	
	LB901	J0JBC0000099	FILTER	1	
	LB902	J0JBC0000099	FILTER	1	
	LB3301	J0JCC0000408	FILTER	1	
	LB3302	J0JCC0000408	FILTER	1	
	LB3303	J0JCC0000408	FILTER	1	
	LB3304	J0JCC0000276	FILTER	1	
	LB3305	J0JCC0000276	FILTER	1	
	LB3306	J0JCC0000276	FILTER	1	
	LB3401	J0JBC0000099	FILTER	1	
	LB3402	J0JBC0000099	FILTER	1	(HC-X900M)
	LB3951	J0JGC0000059	FILTER	1	(HC-X900M)
	LB4923	J0JCC0000276	FILTER	1	
	LB4924	J0JCC0000276	FILTER	1	
	LB4926	J0JCC0000276	FILTER	1	
	LB4927	J0JCC0000276	FILTER	1	
	LB4928	J0JCC0000276	FILTER	1	
	LB4929	J0JCC0000276	FILTER	1	
	LB4930	J0JHC0000078	FILTER	1	
	LB6001	J0JCC0000276	FILTER	1	
	LB6002	J0JCC0000276	FILTER	1	
	LB6003	J0JCC0000276	FILTER	1	
	LB6004	J0JCC0000276	FILTER	1	
	LB6005	J0JBC0000115	FILTER	1	
	LB6801	J0JJC0000015	FILTER	1	
	LB6802	J0JJC0000015	FILTER	1	
	P6001	K1KA02AA0051	CONNECTOR 2P	1	
	P6302	K1KA03BA0014	CONNECTOR 3P	1	
	P6752	K1KY05BA0314	CONNECTOR 5P	1	
	P6801	K1KY05BA0314	CONNECTOR 5P	1	
	P7001	K1KA02B00292	CONNECTOR 2P	1	
	P7002	K1KA02BA0022	CONNECTOR 2P	1	
	PP6002	K1KA40BA0052	CONNECTOR 40P	1	
	PP6005	K1KY50BA0082	CONNECTOR 50P	1	
	PP6006	K1KY40AA0384	CONNECTOR 40P	1	
	PS3901	K1KB40AA0094	CONNECTOR 40P	1	
	PS6011	K1KY60AA0792	CONNECTOR 60P	1	
	PS6751	K1KB50AA0094	CONNECTOR 50P	1	
	PS7001	K1KB40AA0094	CONNECTOR 40P	1	
	Q731	B1ABGE000015	TRANSISTOR	1	E.S.D.
	Q761	B1ADGD000013	TRANSISTOR	1	E.S.D.
	Q1002	B1CHQC000007	TRANSISTOR	1	E.S.D.
	Q1441	B1HBDFA00005	TRANSISTOR	1	E.S.D.
	Q1451	B1ADGD000013	TRANSISTOR	1	E.S.D.
	Q1452	B1HBDFA00005	TRANSISTOR	1	E.S.D.
	Q1501	B1MBDDA00024	TRANSISTOR	1	E.S.D.
	Q1502	B1MBDDA00024	TRANSISTOR	1	E.S.D.
	Q1504	FC8J33040L	TRANSISTOR	1	E.S.D.
	Q2301	DSC300100L	TRANSISTOR	1	E.S.D.
	Q2302	DSA300100L	TRANSISTOR	1	E.S.D.
	Q2306	FC6943010R	TRANSISTOR	1	E.S.D.
	Q2701	B3NBA0000017	TRANSISTOR	1	E.S.D.
	Q2702	B3NBA0000017	TRANSISTOR	1	E.S.D.
	Q3401	B1CFGD000003	TRANSISTOR	1	E.S.D.
	Q3901	B1ADKB000015	TRANSISTOR	1	E.S.D.
	Q4801	DSC900100L	TRANSISTOR	1	E.S.D.
	Q4901	DSC900100L	TRANSISTOR	1	E.S.D.
	Q4902	DSA900100L	TRANSISTOR	1	E.S.D.

Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	Q4903	DSC900100L	TRANSISTOR	1	E.S.D.
	Q4904	DSA900100L	TRANSISTOR	1	E.S.D.
	Q4907	DSC900100L	TRANSISTOR	1	E.S.D.
	Q4908	DSC900100L	TRANSISTOR	1	E.S.D.
	Q6351	DSC900100L	TRANSISTOR	1	E.S.D.
	Q6401	B1ADGD000005	TRANSISTOR	1	E.S.D.
	Q7055	B1JBLP000035	TRANSISTOR	1	E.S.D.
	QR301	DRC3144W0L	TRANSISTOR-RESISTOR	1	E.S.D.
	QR302	DRA3144E0L	TRANSISTOR-RESISTOR	1	E.S.D.
	QR731	DRA3114Y0L	TRANSISTOR-RESISTOR	1	E.S.D.
	QR732	DRC3143Z0L	TRANSISTOR-RESISTOR	1	E.S.D.
	QR761	DRC3143Z0L	TRANSISTOR-RESISTOR	1	E.S.D.
	QR775	DRC3143T0L	TRANSISTOR-RESISTOR	1	E.S.D.
	QR781	DRA3143T0L	TRANSISTOR-RESISTOR	1	E.S.D.
	QR1001	DRC3144E0L	TRANSISTOR-RESISTOR	1	E.S.D.
	QR1002	DRA3144E0L	TRANSISTOR-RESISTOR	1	E.S.D.
	QR1003	DRC3144E0L	TRANSISTOR-RESISTOR	1	E.S.D.
	QR1101	DRC3114E0L	TRANSISTOR-RESISTOR	1	E.S.D.
	QR1451	DRC3114Y0L	TRANSISTOR-RESISTOR	1	E.S.D.
	QR1452	DRC3114Y0L	TRANSISTOR-RESISTOR	1	E.S.D.
	QR1453	DRC3114Y0L	TRANSISTOR-RESISTOR	1	E.S.D.
	QR1501	DRC3114Y0L	TRANSISTOR-RESISTOR	1	E.S.D.
	QR1502	DRC3114Y0L	TRANSISTOR-RESISTOR	1	E.S.D.
	QR1503	DRC3114Y0L	TRANSISTOR-RESISTOR	1	E.S.D.
	QR1504	DRC3114Y0L	TRANSISTOR-RESISTOR	1	E.S.D.
	QR1505	DRA3144E0L	TRANSISTOR-RESISTOR	1	E.S.D.
	QR1506	DRC3144E0L	TRANSISTOR-RESISTOR	1	E.S.D.
	QR2301	DRA3144E0L	TRANSISTOR-RESISTOR	1	E.S.D.
	QR3401	DRC3144W0L	TRANSISTOR-RESISTOR	1	E.S.D.
	QR3402	DRA3144E0L	TRANSISTOR-RESISTOR	1	E.S.D.
	QR3405	DRA3114Y0L	TRANSISTOR-RESISTOR	1	E.S.D.
	QR3406	DRA3114Y0L	TRANSISTOR-RESISTOR	1	E.S.D.
	QR3408	DRA3114Y0L	TRANSISTOR-RESISTOR	1	E.S.D.
	QR3409	DRA3114T0L	TRANSISTOR-RESISTOR	1	E.S.D.
	QR3410	DRC3143T0L	TRANSISTOR-RESISTOR	1	E.S.D.
	QR3411	DRA3143T0L	TRANSISTOR-RESISTOR	1	E.S.D.
	QR3412	DRC3143T0L	TRANSISTOR-RESISTOR	1	E.S.D.
	QR3413	DRA3143T0L	TRANSISTOR-RESISTOR	1	E.S.D.
	QR6401	DRC9114Y0L	TRANSISTOR-RESISTOR	1	E.S.D.
	R301	ERJ1GEJ102	M.RESISTOR CH 1/20W 1K	1	
	R302	ERJ1GEJ220	M.RESISTOR CH 1/20W 22	1	
	R304	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	1	
	R305	ERJ1GEJ102	M.RESISTOR CH 1/20W 1K	1	
	R314	ERJ2GEJ101	M.RESISTOR CH 1/10W 100	1	
	R316	ERJ1GEJ473	M.RESISTOR CH 1/20W 47K	1	
	R317	ERJ1GEJ473	M.RESISTOR CH 1/20W 47K	1	
	R318	ERJ1GEJ102	M.RESISTOR CH 1/20W 1K	1	
	R320	ERJ1GEJ102	M.RESISTOR CH 1/20W 1K	1	
	R322	ERJ1GEJ472	M.RESISTOR CH 1/20W 4.7K	1	
	R703	ERJ1GEJ272	M.RESISTOR CH 1/20W 2.7K	1	
	R711	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
	R712	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
	R713	ERJ1GE0R00C	M.RESISTOR CH 1/20W 0	1	
	R714	ERJ1GEJ103	M.RESISTOR CH 1/20W 10K	1	
	R715	ERJ1GEJ103	M.RESISTOR CH 1/20W 10K	1	
	R716	ERJ1GEJ102	M.RESISTOR CH 1/20W 1K	1	
	R717	ERJ2RHD682X	M.RESISTOR CH 1/10W 6.8K	1	
	R718	ERJ2RHD682X	M.RESISTOR CH 1/10W 6.8K	1	
	R731	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
	R732	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
	R733	ERJ2GEJ154	M.RESISTOR CH 1/16W 150K	1	
	R734	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	

Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	R735	ERJ2GEJ102Y	M.RESISTOR CH 1/10W 1K	1	
	R736	ERJ2GEJ473Y	M.RESISTOR CH 1/10W 47K	1	
	R737	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
	R738	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
	R741	ERJ2GEJ334	M.RESISTOR CH 1/16W 330K	1	
	R742	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
	R743	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
	R744	ERJ2GEJ334	M.RESISTOR CH 1/16W 330K	1	
	R745	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
	R751	ERJ2GEJ222	M.RESISTOR CH 1/10W 2.2K	1	
	R761	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
	R762	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
	R763	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
	R764	ERJ2RKD124	M.RESISTOR CH 1/16W 120K	1	
	R765	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
	R766	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
	R767	ERJ1GEJ473	M.RESISTOR CH 1/20W 47K	1	
	R768	ERJ1GEJ821	M.RESISTOR CH 1/20W 820	1	
	R775	ERJ2GEJ151	M.RESISTOR CH 1/10W 150	1	
	R776	ERJ1GEJ473	M.RESISTOR CH 1/20W 47K	1	
	R781	ERJ1GEJ181	M.RESISTOR CH 1/20W 180	1	
	R791	ERJ1GEJ391	M.RESISTOR CH 1/20W 390	1	
	R792	ERJ1GEJ391	M.RESISTOR CH 1/20W 390	1	
	R793	ERJ1GEJ221	M.RESISTOR CH 1/20W 220	1	
	R914	ERJ2GEJ820	M.RESISTOR CH 1/16W 82	1	
	R917	ERJ2GEJ820	M.RESISTOR CH 1/16W 82	1	
⚠	R1001	D1JBR084A023	FUSING RESISTOR 0.084	1	
⚠	R1002	D1JB2R70A023	FUSING RESISTOR 2.7	1	
⚠	R1003	D1JBR045A055	FUSING RESISTOR 0.045	1	
	R1006	ERJ2GEJ104	M.RESISTOR CH 1/10W 100K	1	
	R1101	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	
	R1102	ERJ1GE0R00C	M.RESISTOR CH 1/20W 0	1	
	R1106	ERJ1GE0R00C	M.RESISTOR CH 1/20W 0	1	
	R1107	ERJ1GEJ103	M.RESISTOR CH 1/20W 10K	1	
	R1109	ERJ1GE0R00C	M.RESISTOR CH 1/20W 0	1	
	R1110	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
	R1111	ERJ2GEJ202	M.RESISTOR CH 1/10W 2K	1	
	R1121	ERJ2GEJ102Y	M.RESISTOR CH 1/10W 1K	1	
	R1131	ERJ2GEJ511	M.RESISTOR CH 1/16W 510	1	
	R1141	ERJ2GEJ222	M.RESISTOR CH 1/10W 2.2K	1	
	R1161	ERJ2GEJ202	M.RESISTOR CH 1/10W 2K	1	
	R1212	ERJ2RHD123X	M.RESISTOR CH 1/16W 12K	1	
	R1214	ERJ2RHD302	M.RESISTOR CH 1/16W 3K	1	
	R1222	ERJ2RHD622	M.RESISTOR CH 1/16W 6.2K	1	
	R1223	ERJ2RHD511	M.RESISTOR CH 1/16W 510	1	
	R1224	ERJ2RHD302	M.RESISTOR CH 1/16W 3K	1	
	R1232	ERJ2RHD242	M.RESISTOR CH 1/16W 2.4K	1	
	R1233	ERJ2RKD330	M.RESISTOR CH 1/16W 33	1	
	R1234	ERJ2RHD302	M.RESISTOR CH 1/16W 3K	1	
	R1235	ERJ2GEJ511	M.RESISTOR CH 1/16W 510	1	
	R1242	ERJ2RHD152	M.RESISTOR CH 1/16W 1.5K	1	
	R1244	ERJ2RHD302	M.RESISTOR CH 1/16W 3K	1	
	R1245	ERJ2GEJ511	M.RESISTOR CH 1/16W 510	1	
	R1262	ERJ2RHD242	M.RESISTOR CH 1/16W 2.4K	1	
	R1263	ERJ2RHD151	M.RESISTOR CH 1/16W 150	1	
	R1264	ERJ2RHD302	M.RESISTOR CH 1/16W 3K	1	
	R1331	ERJ2GEJ471	M.RESISTOR CH 1/10W 470	1	
	R1421	ERJ2GEJ472	M.RESISTOR CH 1/10W 4.7K	1	
	R1424	DOYAR0000007	M.RESISTOR CH 1/10W 0	1	
	R1431	ERJ2GEJ102Y	M.RESISTOR CH 1/10W 1K	1	
	R1441	ERJ1GEJ273	M.RESISTOR CH 1/20W 27K	1	
	R1442	ERJ1GEJ103	M.RESISTOR CH 1/20W 10K	1	

Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	R1443	ERJ1GEJ392	M.RESISTOR CH 1/20W 3.9K	1	
	R1444	ERJ1GEJ224	M.RESISTOR CH 1/20W 220K	1	
	R1445	ERJ1GEJ680	M.RESISTOR CH 1/20W 68	1	
	R1450	ERJ2GEJ561	M.RESISTOR CH 1/16W 560	1	
	R1451	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
	R1452	ERJ2RHD222	M.RESISTOR CH 1/16W 2.2K	1	
	R1453	ERJ2RHD112	M.RESISTOR CH 1/16W 1.1K	1	
	R1454	ERJ2RHD302	M.RESISTOR CH 1/16W 3K	1	
	R1455	ERJ1GEJ102	M.RESISTOR CH 1/20W 1K	1	
	R1456	ERJ2RHD102X	M.RESISTOR CH 1/16W 1K	1	
	R1501	ERJ2GEJ473Y	M.RESISTOR CH 1/10W 47K	1	
	R1502	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
	R1503	ERJ2GEJ104	M.RESISTOR CH 1/10W 100K	1	
	R1504	ERJ2GEJ104	M.RESISTOR CH 1/10W 100K	1	
	R1505	ERJ2GEJ104	M.RESISTOR CH 1/10W 100K	1	
	R1506	ERJ2RHD392X	M.RESISTOR CH 1/16W 3.9K	1	
	R1507	ERJ2RHD241	M.RESISTOR CH 1/16W 240	1	
	R1508	ERJ2RHD162X	M.RESISTOR CH 1/16W 1.6K	1	
	R1509	ERJ2GEJ102Y	M.RESISTOR CH 1/10W 1K	1	
	R1510	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
	R1511	ERJ2GEJ222	M.RESISTOR CH 1/10W 2.2K	1	
	R1512	ERJ2GEJ472	M.RESISTOR CH 1/10W 4.7K	1	
	R1513	ERJ2GEJ224	M.RESISTOR CH 1/10W 220K	1	
	R1515	D1BDR033A111	RESISTOR	1	
	R1517	ERJ2GEJ104	M.RESISTOR CH 1/10W 100K	1	
	R1518	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
	R1519	ERJ2RHD224	M.RESISTOR CH 1/16W 220K	1	
	R1520	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
	R1601	D1JBR045A055	FUSING RESISTOR 0.045	1	
	R1602	ERJ2RHD203	M.RESISTOR CH 1/16W 20K	1	
	R1604	ERJ3GEYJ4R7	M.RESISTOR CH 1/10W 4.7	1	
	R1605	ERJ8GEYJ330	M.RESISTOR CH 1/8W 33	1	
	R2301	ERJ2GEJ334	M.RESISTOR CH 1/16W 330K	1	
	R2302	ERJ2GEJ102Y	M.RESISTOR CH 1/10W 1K	1	
	R2305	ERJ2GEJ473Y	M.RESISTOR CH 1/10W 47K	1	
	R2307	ERJ2GEJ105	M.RESISTOR CH 1/10W 1M	1	
	R2308	ERJ2GEJ683	M.RESISTOR CH 1/16W 68K	1	
	R2309	ERJ2GEJ104	M.RESISTOR CH 1/10W 100K	1	
	R2314	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
	R2315	ERJ2GEJ105	M.RESISTOR CH 1/10W 1M	1	
	R2316	ERJ2GEJ473Y	M.RESISTOR CH 1/10W 47K	1	
	R2701	ERJ2GEJ101	M.RESISTOR CH 1/10W 100	1	
	R2702	ERJ6GEYJ101V	M.RESISTOR CH 1/10W 100	1	
	R2703	ERJ2GEJ512X	M.RESISTOR CH 1/16W 5.1K	1	
	R2704	ERJ2GEJ512X	M.RESISTOR CH 1/16W 5.1K	1	
	R2705	ERJ6GEY0R00V	M.RESISTOR CH 1/8W 0	1	
	R3311	ERJ2GEJ102Y	M.RESISTOR CH 1/10W 1K	1	
	R3312	ERJ3RED750V	RESISTOR NETWORKS	1	
	R3313	ERJ3RED750V	RESISTOR NETWORKS	1	
	R3314	ERJ3RED750V	RESISTOR NETWORKS	1	
	R3315	ERJ3RED750V	RESISTOR NETWORKS	1	
	R3407	ERJ2GEJ681	M.RESISTOR CH 1/16W 680	1	
	R3408	ERJ2GEJ681	M.RESISTOR CH 1/16W 680	1	
	R3416	ERJ1GEJ472	M.RESISTOR CH 1/20W 4.7K	1	
	R3424	ERJ2RHD101	M.RESISTOR CH 1/16W 100	1	
	R3426	ERJ2RHD101	M.RESISTOR CH 1/16W 100	1	
	R3428	ERJ2RHD101	M.RESISTOR CH 1/16W 100	1	
	R3429	ERJ2GED273X	M.RESISTOR CH 1/10W 27K	1	
	R3430	ERJ2RHD431	M.RESISTOR CH 1/16W 430	1	
	R3431	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
	R3432	ERJ2RHD512	M.RESISTOR CH 1/16W 5.1K	1	
	R3433	ERJ2GEJ472	M.RESISTOR CH 1/10W 4.7K	1	

Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	R3434	ERJ2RHD243	M.RESISTOR CH 1/16W 24K	1	
	R3435	ERJ2RHD183	M.RESISTOR CH 1/16W 18K	1	
	R3436	ERJ2GEJ472	M.RESISTOR CH 1/10W 4.7K	1	
	R3437	ERJ2GEJ182	M.RESISTOR CH 1/10W 1.8K	1	
	R3438	ERJ2GEJ182	M.RESISTOR CH 1/10W 1.8K	1	
	R3442	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	1	
	R3443	ERJ2GEJ270	M.RESISTOR CH 1/10W 27	1	
	R3444	ERJ2RHD123X	M.RESISTOR CH 1/16W 12K	1	
	R3445	ERJ2GEJ101	M.RESISTOR CH 1/10W 100	1	(HC-X900M)
	R3446	ERJ2GEJ560X	M.RESISTOR CH 1/10W 56	1	(HC-X900M)
	R3449	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
	R3452	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	1	
	R3453	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
	R3455	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
	R3456	ERJ2GEJ102Y	M.RESISTOR CH 1/10W 1K	1	
	R3460	ERJ1GEJ473	M.RESISTOR CH 1/20W 47K	1	
	R3461	ERJ2GEJ104	M.RESISTOR CH 1/10W 100K	1	
	R3463	ERJ2GEJ104	M.RESISTOR CH 1/10W 100K	1	
	R3467	ERJ2RKD204	M.RESISTOR CH 1/16W 200K	1	
	R3472	ERJ2RHD563	M.RESISTOR CH 1/16W 56K	1	
	R3473	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1	
	R3476	ERJ2GEJ102Y	M.RESISTOR CH 1/10W 1K	1	
	R3477	ERJ2GEJ183	M.RESISTOR CH 1/10W 18K	1	
	R3478	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
	R3480	ERJ2GEJ122	M.RESISTOR CH 1/10W 1.2K	1	
	R3481	ERJ2GEJ122	M.RESISTOR CH 1/10W 1.2K	1	
	R3486	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
	R3487	ERJ2GEJ101	M.RESISTOR CH 1/10W 100	1	
	R3492	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
	R3493	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
	R3505	ERJ1GEJ473	M.RESISTOR CH 1/20W 47K	1	
	R3510	ERJ2GEJ472	M.RESISTOR CH 1/10W 4.7K	1	
	R3511	ERJ2GEJ472	M.RESISTOR CH 1/10W 4.7K	1	
	R3514	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
	R3703	ERJ1GEJ102	M.RESISTOR CH 1/20W 1K	1	
	R3712	ERJ1GEJ102	M.RESISTOR CH 1/20W 1K	1	
	R3799	ERJ1GEJ473	M.RESISTOR CH 1/20W 47K	1	
	R3901	ERJ2GEJ680	M.RESISTOR CH 1/10W 68	1	
	R3902	ERJ2GEJ560X	M.RESISTOR CH 1/10W 56	1	
	R3903	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
	R3904	ERJ2GEJ271	M.RESISTOR CH 1/10W 270	1	
	R3905	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
	R3906	ERJ2GEJ102Y	M.RESISTOR CH 1/10W 1K	1	
	R3907	ERJ2GEJ102Y	M.RESISTOR CH 1/10W 1K	1	
	R3909	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
	R3910	D0GB150JA057	M.RESISTOR CH 1/10W 15	1	
	R3915	ERJ2GEJ821	M.RESISTOR CH 1/10W 820	1	
	R3916	ERJ2GEJ222	M.RESISTOR CH 1/10W 2.2K	1	
	R3951	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	(HC-X900M)
	R4801	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
	R4802	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
	R4803	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
	R4804	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
	R4805	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
	R4806	ERJ2GEJ183	M.RESISTOR CH 1/10W 18K	1	
	R4807	ERJ2GEJ683	M.RESISTOR CH 1/16W 68K	1	
	R4808	ERJ2GEJ183	M.RESISTOR CH 1/10W 18K	1	
	R4809	ERJ2GEJ683	M.RESISTOR CH 1/16W 68K	1	
	R4810	ERJ2GEJ183	M.RESISTOR CH 1/10W 18K	1	
	R4811	ERJ2GEJ683	M.RESISTOR CH 1/16W 68K	1	
	R4812	ERJ2GEJ183	M.RESISTOR CH 1/10W 18K	1	
	R4813	ERJ2GEJ683	M.RESISTOR CH 1/16W 68K	1	

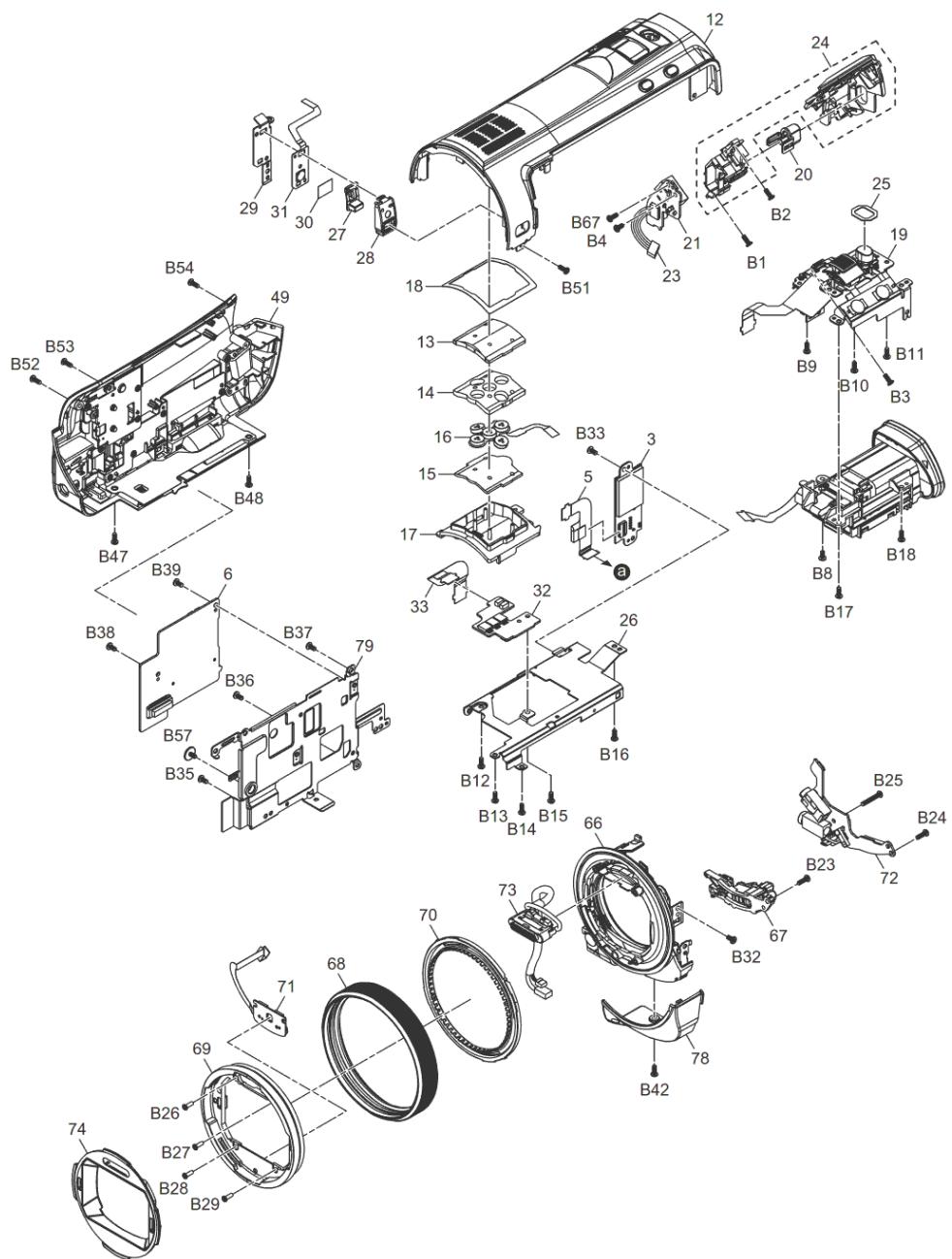
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	R4814	ERJ2GEJ183	M.RESISTOR CH 1/10W 18K	1	
	R4815	ERJ2GEJ683	M.RESISTOR CH 1/16W 68K	1	
	R4816	ERJ2GEJ472	M.RESISTOR CH 1/10W 4.7K	1	
	R4817	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
	R4818	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
	R4901	ERJ3RBD331	M.RESISTOR CH 1/10W 330	1	
	R4902	ERJ2GEJ472	M.RESISTOR CH 1/10W 4.7K	1	
	R4904	ERJ3RBD562	M.RESISTOR CH 1/10W 5.6K	1	
	R4905	ERJ2GEJ471	M.RESISTOR CH 1/10W 470	1	
	R4906	ERJ3RBD103	M.RESISTOR CH 1/10W 10K	1	
	R4907	D0HB154ZA002	M.RESISTOR CH 1/16W 150K	1	
	R4908	D0HB563ZA002	M.RESISTOR CH 1/10W 56K	1	
	R4909	ERJ2GEJ102Y	M.RESISTOR CH 1/10W 1K	1	
	R4910	ERJ2GEJ562	M.RESISTOR CH 1/10W 5.6K	1	
	R4911	ERJ2GEJ151	M.RESISTOR CH 1/10W 150	1	
	R4912	ERJ2GEJ471	M.RESISTOR CH 1/10W 470	1	
	R4913	ERJ3RBD103	M.RESISTOR CH 1/10W 10K	1	
	R4914	D0HB154ZA002	M.RESISTOR CH 1/16W 150K	1	
	R4915	D0HB563ZA002	M.RESISTOR CH 1/10W 56K	1	
	R4916	ERJ2GEJ102Y	M.RESISTOR CH 1/10W 1K	1	
	R4917	ERJ2GEJ562	M.RESISTOR CH 1/10W 5.6K	1	
	R4918	ERJ2GEJ151	M.RESISTOR CH 1/10W 150	1	
	R4920	ERJ3RBD562	M.RESISTOR CH 1/10W 5.6K	1	
	R4922	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
	R4923	ERJ2GEJ683	M.RESISTOR CH 1/16W 68K	1	
	R4924	ERJ2GEJ473Y	M.RESISTOR CH 1/10W 47K	1	
	R4925	ERJ2GEJ2R2X	M.RESISTOR CH 1/16W 2.2	1	
	R6004	ERJ1GEJ101	M.RESISTOR CH 1/20W 100	1	
	R6019	ERJ1GEJ392	M.RESISTOR CH 1/20W 3.9K	1	
	R6021	ERJ1GEJ101	M.RESISTOR CH 1/20W 100	1	
	R6086	DOYAR0000007	M.RESISTOR CH 1/10W 0	1	
	R6087	DOYAR0000007	M.RESISTOR CH 1/10W 0	1	
	R6088	ERJ2GEJ102Y	M.RESISTOR CH 1/10W 1K	1	
	R6089	ERJ2GEJ102Y	M.RESISTOR CH 1/10W 1K	1	
	R6352	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
	R6353	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
	R6354	ERJ2GEJ102Y	M.RESISTOR CH 1/10W 1K	1	
	R6355	ERJ2RKD274	M.RESISTOR CH 1/16W 270K	1	
	R6356	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
	R6400	ERJ2GEJ102Y	M.RESISTOR CH 1/10W 1K	1	
	R6401	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
	R6402	ERJ2RKD330	M.RESISTOR CH 1/16W 33	1	
	R6403	ERJ2GEJ101	M.RESISTOR CH 1/10W 100	1	
	R6412	ERJ3GEYJ390	M.RESISTOR CH 1/10W 39	1	
	R6413	ERJ3GEYJ390	M.RESISTOR CH 1/10W 39	1	
	R6416	ERJ2GEJ473Y	M.RESISTOR CH 1/10W 47K	1	
	R6417	ERJ2GEJ472	M.RESISTOR CH 1/10W 4.7K	1	
	R6751	D0YAR0000007	M.RESISTOR CH 1/10W 0	1	
	R7001	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
	R7002	D1BD4703A119	CHIP RESISTOR	1	
	R7003	ERJ2RHD152	M.RESISTOR CH 1/16W 1.5K	1	
	R7004	ERJ8GEYJ105V	M.RESISTOR CH 1/4W 1M	1	
	R7005	D1JBR084A023	FUSING RESISTOR 0.084	1	
	R7006	ERJ2RHD121	M.RESISTOR CH 1/16W 120	1	
	R7007	ERJ3GEYJ104	M.RESISTOR CH 1/10W 100K	1	
	R7011	ERJ3GEYJ104	M.RESISTOR CH 1/10W 100K	1	
	R7015	ERJ3GEYJ560	M.RESISTOR CH 1/10W 56	1	
	R7016	ERJ2GEJ183	M.RESISTOR CH 1/10W 18K	1	
	R7021	DOYAR0000007	M.RESISTOR CH 1/10W 0	1	
	R7023	DOYAR0000007	M.RESISTOR CH 1/10W 0	1	
	R7101	ERJ2RHD242	M.RESISTOR CH 1/16W 2.4K	1	
	R7103	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	

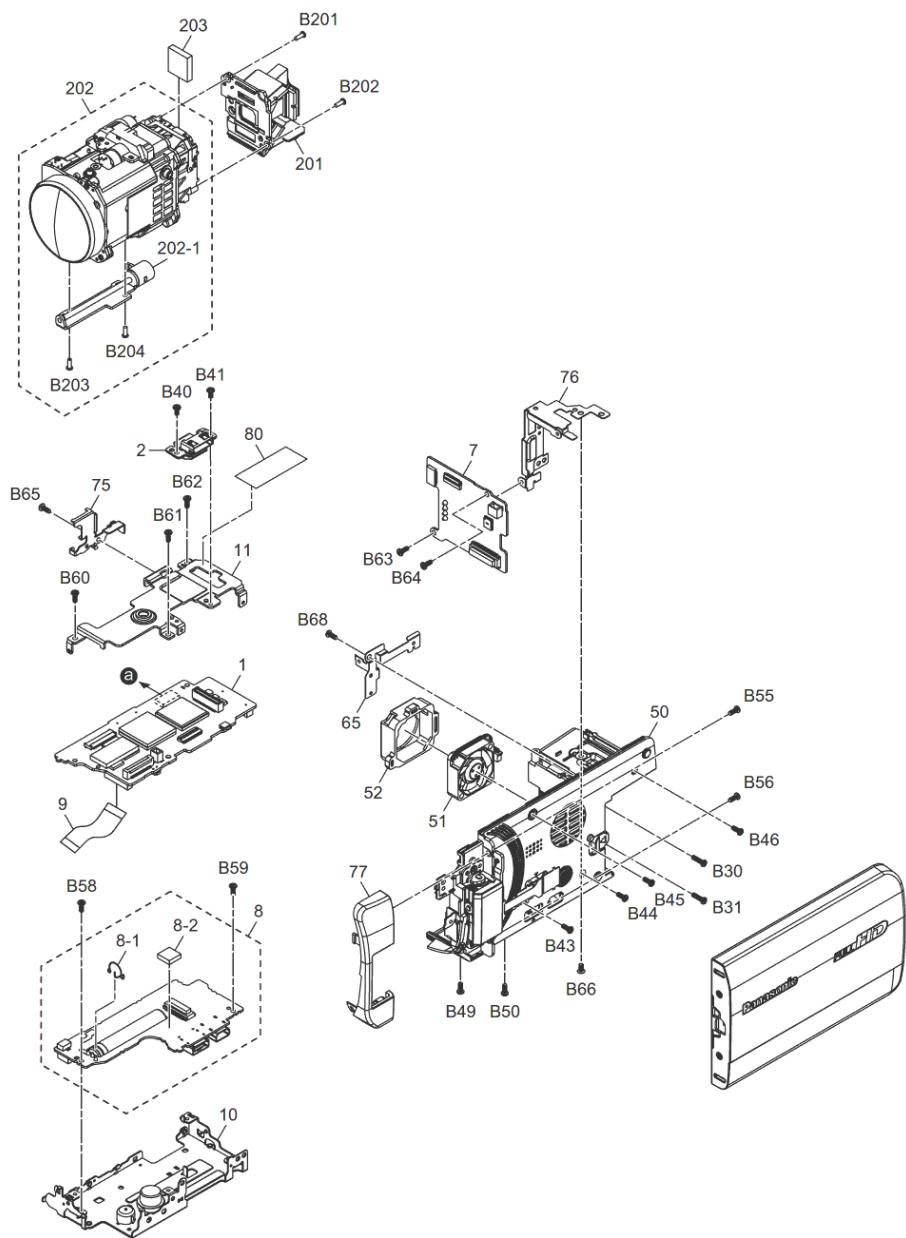
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	R7105	ERJ2GEJ472	M. RESISTOR CH 1/10W 4.7K	1	
	R7106	ERJ2GEJ220	M. RESISTOR CH 1/16W 22	1	
	RX303	D1H84734A024	RESISTOR NETWORKS	1	
	RX304	D1H84734A024	RESISTOR NETWORKS	1	
	RX851	EXB28V470JX	RESISTOR NETWORKS	1	
	RX852	EXB28V470JX	RESISTOR NETWORKS	1	
	RX901	D1H88204A024	RESISTOR NETWORKS	1	
	RX902	D1H88204A024	RESISTOR NETWORKS	1	
	RX903	D1H88204A024	RESISTOR NETWORKS	1	
	RX904	D1H88204A024	RESISTOR NETWORKS	1	
	RX905	D1H88204A024	RESISTOR NETWORKS	1	
	RX906	D1H88204A024	RESISTOR NETWORKS	1	
	RX907	D1H88204A024	RESISTOR NETWORKS	1	
	RX908	D1H88204A024	RESISTOR NETWORKS	1	
	RX909	D1H88204A024	RESISTOR NETWORKS	1	
	RX910	D1H88204A024	RESISTOR NETWORKS	1	
	RX911	D1H88204A024	RESISTOR NETWORKS	1	
	RX912	D1H88204A024	RESISTOR NETWORKS	1	
	RX3401	D1H82704A024	RESISTOR NETWORKS	1	
	RX3402	D1H85604A024	RESISTOR NETWORKS	1	(HC-X900M)
	RX3408	EXB28V103JX	RESISTOR NETWORKS	1	
	RX3901	D1H85604A024	RESISTOR NETWORKS	1	
	RX3902	EXB28V103JX	RESISTOR NETWORKS	1	
	RX3951	D1H86834A024	RESISTOR	1	(HC-X900M)
	S801	ESE18L62BXFD	SWITCH	1	
	S6002	KOH1BA000580	SWITCH	1	
	S6003	KOH1BA000580	SWITCH	1	
	S6601	KOF111A00589	SWITCH	1	
	S6801	KOF111A00471	SWITCH	1	
	T7001	G5DYZ0000025	TRANSFORMER	1	
	VA301	D4ED16R80001	VARISTOR	1	
	VA302	D4ED16R80001	VARISTOR	1	
	VA901	D4ED18R00008	VARISTOR	1	
	VA902	D4ED18R00008	VARISTOR	1	
	VA903	D4ED18R00008	VARISTOR	1	
	VA904	D4ED18R00008	VARISTOR	1	
	VA3902	D4EDY1310001	VARISTOR	1	
	VA4901	D4ED18R00008	VARISTOR	1	
	VA4902	D4ED18R00008	VARISTOR	1	
	VA6001	D4ED16R80001	VARISTOR	1	
	VA6002	D4ED16R80001	VARISTOR	1	
	VA6401	D4ED16R80001	VARISTOR	1	
	VA6402	D4ED16R80001	VARISTOR	1	
	VA6751	D4EDY1310001	VARISTOR	1	
	VA6752	D4EDY1310001	VARISTOR	1	
	VA6754	D4EDY1310001	VARISTOR	1	
	X301	H1A6005B0019	CRYSTAL OSCILLATOR	1	
	X2301	H0J327200085	CRYSTAL OSCILLATOR	1	
	ZB3901	K3ZZ00500014	BATTERY HOLDER	1	

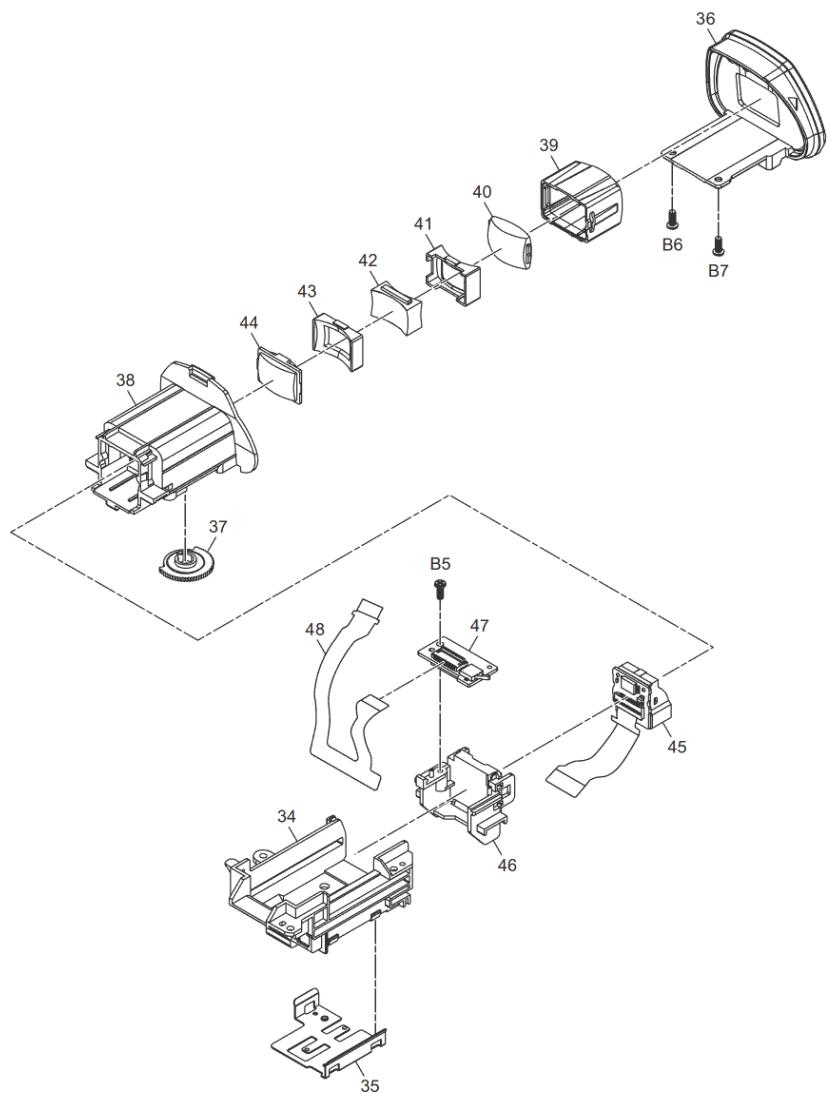
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Frame and Casing Section (1)



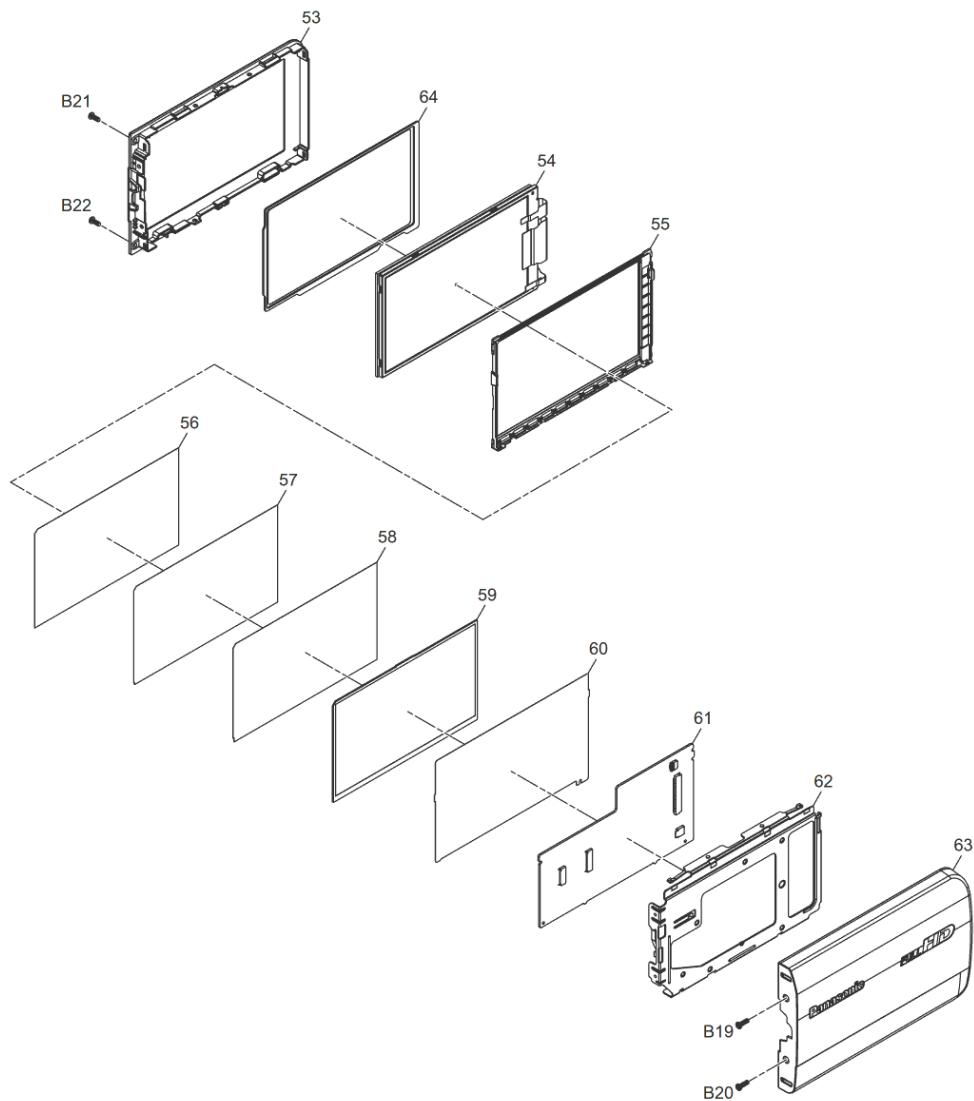
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Frame and Casing Section (2)



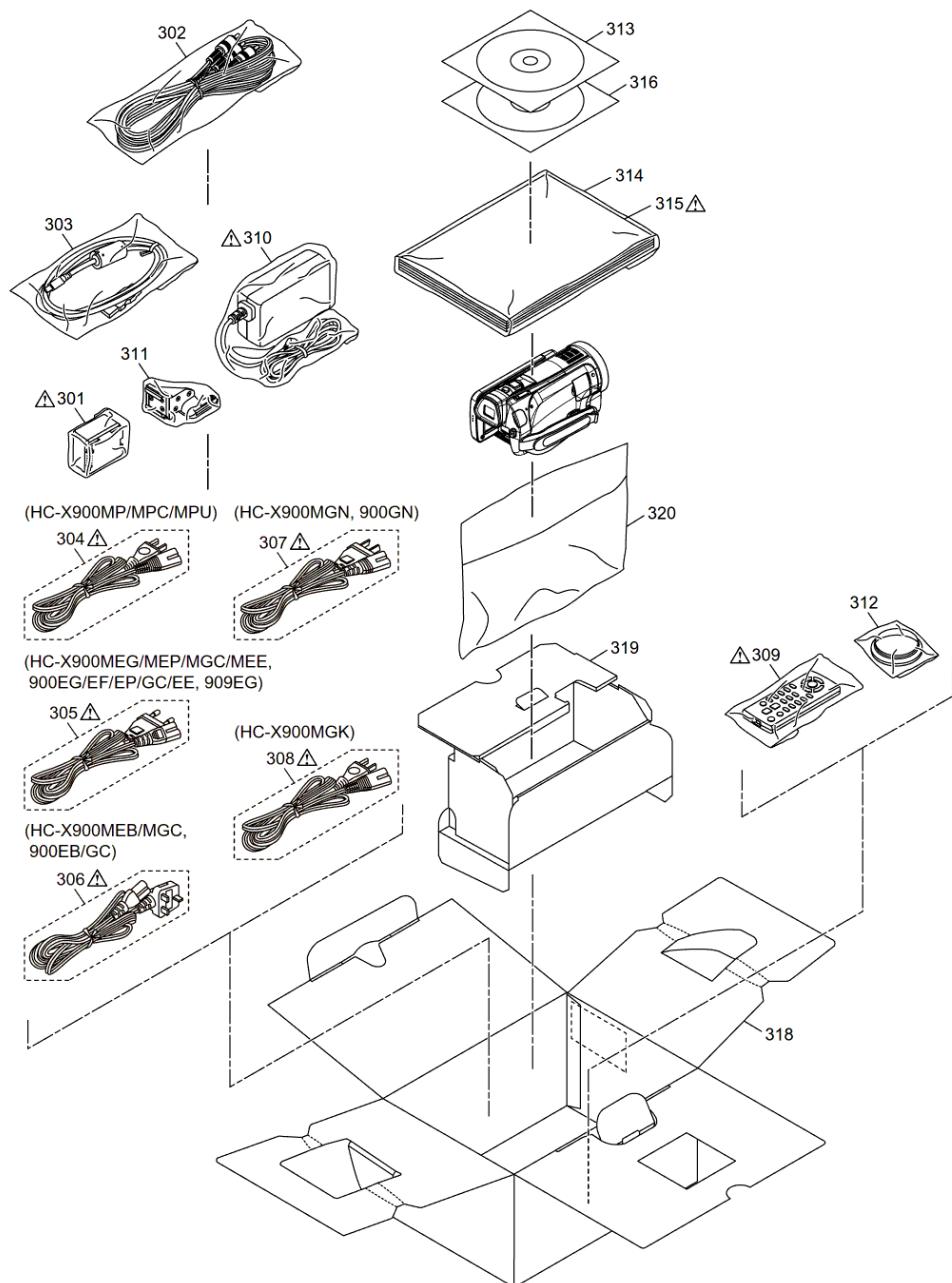
Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG EVF Section



Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG LCD Section



Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Packing Parts and Accessories Section



Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	1	VEP03J23B	MAIN P.C.B. UNIT	1	(RTL) E.S.D. (HC-X900M)
	1	VEP03J23C	MAIN P.C.B. UNIT	1	(RTL) E.S.D. (HC-X900, 909)
	2	VEP03J30A	HDMI FPC UNIT	1	
	3	VEP03J60F	ESD P.C.B. UNIT	1	(HC-X900M) E.S.D.
	5	VWJ2281	ESD FPC	1	(HC-X900M)
	6	VEP03J28A	SD OP P.C.B. UNIT	1	(RTL) E.S.D.
	7	VEP01A58A	BATTERY CATCHER P.C.B. UNIT	1	(RTL) E.S.D.
	8	VEP03J29A	FLASH P.C.B. UNIT	1	(RTL) E.S.D.
	8-1	VMB4584	CAPACITOR GND SPRING	1	
	8-2	VGQ1E14	MAIN HEAT RADIATION SHEET	1	
	9	VWJ2133	FRONT FPC	1	
	10	VYK5D82	BOTTOM FRAME UNIT	1	
	11	VYK5D83	MAIN HEAT RADIATION BOARD	1	
	12	VYK5D86	TOP CASE UNIT	1	(-K)
	12	VYK5M56	TOP CASE UNIT	1	(-S)
	13	VGQ0C85	MIC CUSHION (A)	1	
	14	VGQ0C86	MIC CUSHION (B)	1	
	15	VGQ0C87	MIC CUSHION (C)	1	
	16	LOCBAY000146	MICROPHONE UNIT	1	
	17	VGQ1A80	MIC CASE	1	
	18	VGQ1C50	MIC TWO-SIDE TAPE	1	
	19	KORE008000020	ZOOM OPERATION UNIT	1	
	20	VGU0J06	S/S BUTTON	1	
	21	VEP01A60A	DC JACK P.C.B. UNIT	1	(RTL)
	23	VEE1K04	DC BATTERY. WIRE	1	
	24	VYK5J33	S/S CASE UNIT	1	
	25	VGQ0M76	PHOTO CUSHION	1	
	26	VMP0A56	TOP FRAME	1	
	27	VGU0F89	CAMERA OPERATION BUTTON	1	
	28	VGQ0K85	CAMERA OPERATION CASE	1	
	29	VMP0A57	CAMERA OPERATION ANGLE	1	
	30	VGQ0M74	CAMERA DAMPER SHEET	1	
	31	VEP20D76A	CAM FUNC FPC UNIT	1	(RTL)
	32	VEP04982A	MIC AMP P.C.B. UNIT	1	(RTL) E.S.D.
	33	VWJ2278	MIC AMP FPC	1	
	34	VGQ1A81	EVF SLIDE CASE	1	
	35	VMP9930	EVF SLIDE FRAME	1	
	36	VGQ1A82	EYES CAP	1	
	37	VGU0E13	EVF ANGLE KNOB	1	
	38	VGQ1A84	EVF CASE	1	
	39	VGQ0S92	EVF LENS HOLDER	1	
	40	VDL2649	EVF LENS (A)	1	
	41	VGQ0S93	EVF LENS SPACER(AB)	1	
	42	VDL2650	EVF LENS (B)	1	
	43	VGQ0S94	EVF LENS SPACER(BC)	1	
	44	VDL2651	EVF LENS (C)	1	
	45	L5EDYY00183	LCD	1	
	46	VGQ0S95	EVF-LCD PEACE	1	
	47	VEP29232A	EVF EXT P.C.B. UNIT	1	(RTL)
	48	VWJ2250	EVF FPC	1	
	49	VYK5D90	SIDE CASE(L) UNIT	1	
	50	VYK5D92	SIDE CASE(R) UNIT	1	900MP-K, MPC-K, MPU-K
	50	VYK5M58	SIDE CASE(R) UNIT	1	900MEG-K, MEP-K, MEB-K, MGC-K, MEE-K, MGN-K, MGK-K, 900EG-K, EF-K, EP-K, EB-K, GC-K, EE-K, GN-K, 909EG-K
	50	VYK5M57	SIDE CASE(R) UNIT	1	909EG-S
	51	L6FAG99D0020	FAN MOTOR	1	
	52	VMG1928	FAN DAMPER	1	
	53	VYK5J26	LCD CASE(B) UNIT	1	
	54	VYK5H06	LCD PANEL UNIT	1	
	55	VGQ1A34	LGP HOLDER	1	
	56	VGL1400	PRISM SHEET(A)	1	

Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	57	VGL1401	PRISM SHEET(B)	1	
	58	VGL1402	DIFFUSION SHEET	1	
	59	VKW3504	LIGHT GUIDE PLATE	1	
	60	VGL1403	REFLECTION SHEET	1	
	61	VEP26347A	MONITOR P.C.B. UNIT	1	(RTL) E.S.D.
	62	VMP0B78	LCD FRAME	1	
	63	VYK5M61	LCD CASE(T) UNIT	1	900MP-K, MPC-K, MPU-K, MEG-K, MEP-K, MEB-K, MG-C-K, MEE-K, MGN-K, MGK-K
	63	VYK5M62	LCD CASE(T) UNIT	1	900EG-K, EF-K, EP-K, EB-K, GC-K, EE-K, GN-K
	63	VYK5M60	LCD CASE(T) UNIT	1	909EG-K
	63	VYK5M59	LCD CASE(T) UNIT	1	909EG-S
	64	VGQ1A31	TP SPACER	1	
	65	VMP0A61	FAN FRAME	1	
	66	VYK5F86	BARRIER CASE UNIT	1	
	67	N9ZZ00000415	BARRIER MOTOR UNIT	1	
	68	VGK3809	MF RING	1	(-K)
	68	VGK3909	MF RING	1	(-S)
	69	VGQ0X46	MF FRONT CASE	1	
	70	VGQ0X47	MF PEACE	1	
	71	VEP06G71A	MF HOLL DETECT FPC UNIT	1	(RTL) E.S.D.
	72	VEP20D75A	FRONT P.C.B. UNIT	1	(RTL) E.S.D.
	73	EFN-MVBH7ZC	FLASH	1	
	74	VYK5F85	MF ORNAMENT UNIT	1	
	75	VMP0A53	ESD ANGLE	1	(HC-X900M)
	76	VMP0A54	REAR FRAME	1	
	77	VKM9593	SR COVER	1	(-K)
	77	VKM9982	SR COVER	1	(-S)
	78	VKW3501	SENSOR WINDOW	1	
	79	VYK5D79	COVER BOARD UNIT	1	
	80	VGQ1D19	HEAT RADIATION SHEET A	1	
	201	VXQ2122	MOS UNIT	1	
	202	VXW1301	LENS UNIT	1	
	202-1	L6HAYYYB0006	STEPPING MOTOR	1	
	203	VDL1900	OPTICAL FILTER	1	
	B32	VHD1919	SCREW	1	
⚠	301	-----	BATTERY PACK	1	900MP, MPC
⚠	301	-----	BATTERY PACK	1	900MPU, MEG, MEP, MEB, MGC, MEE, MGN, 900EG, EF, EP, EB, GC, EE, GN, 909EG
⚠	301	-----	BATTERY PACK	1	900MGK
	302	K1HY12YY0012	AV MULTI CABLE	1	
	303	K2KYYYY00201	USB CABLE	1	
⚠	304	K2CA2CA00025	AC CORD W/PLUG	1	900MP, MPC, MPU
⚠	305	K2CQ2YY00082	AC CORD W/PLUG	1	900MEG, MEP, MGC, MEE, 900EG, EF, EP, GC, EE, 909EG
⚠	306	K2CT3YY00034	AC CORD W/PLUG	1	900MEB, MGC, 900EB, GC
⚠	307	K2CJ2YY00052	AC CORD W/PLUG	1	900MGN, 900GN
⚠	308	K2CA2YY00130	AC CORD W/PLUG	1	900MGK
⚠	309	N2QAEC000024	REMOTE CONTROL UNIT	1	
⚠	310	VSK0732	AC ADAPTOR	1	900MP, MPC
⚠	310	VSK0733A	AC ADAPTOR	1	900MPU, MEG, MEP, MEB, MGC, MEE, MGN, 900EG, EF, EP, EB, GC, EE, GN, 909EG
⚠	310	VSK0734	AC ADAPTOR	1	900MGK
	311	VYC0996	SHOE ADAPTOR	1	
	312	VDW2412	LENS HOOD	1	
	313	VFF0893-S	CD-ROM	1	900MP, MPC, MPU, MEG, MEP, MEB, MGC, MEE, MGN, 900EG, EF, EP, EB, GC, EE, GN, 909EG
	313	VFF0894-S	CD-ROM	1	900MGK
	314	VPF1294	BAG, POLYETHYLENE	1	
⚠	315	VQT4C76	OPERATING INSTRUCTIONS	1	900MP, MPC, MPU (ENGLISH)
⚠	315	VQT4C77	OPERATING INSTRUCTIONS	1	900MPC (CANADIAN FRENCH)
⚠	315	VQT4C78	OPERATING INSTRUCTIONS	1	900MPU (SPANISH)

Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
!	315	VQT4C79	OPERATING INSTRUCTIONS	1	900MEG, 900EG, 909EG (GERMAN/ TURKISH/ ITALIAN/ DUTCH)
!	315	VQT4C80	OPERATING INSTRUCTIONS	1	900MEG, 900EG, 909EG (SPANISH/ PORTUGUESE/ SWEDISH/ DANISH/ FINNISH)
!	315	VQT4C81	OPERATING INSTRUCTIONS	1	900MEG, 900EG, 909EG (FRENCH)
!	315	VQT4C82	OPERATING INSTRUCTIONS	1	900MEP, 900EP (ENGLISH/ POLISH/ CZECH/ HUNGARIAN)
!	315	VQT4C83	OPERATING INSTRUCTIONS	1	900MEB, 900EB (ENGLISH)
!	315	VQT4C85	OPERATING INSTRUCTIONS	1	900MGC, MGN, 900GC, GN (ENGLISH)
!	315	VQT4C86	OPERATING INSTRUCTIONS	1	900MGC, 900GC (ARABIC/ PERSIAN)
!	315	VQT4C87	OPERATING INSTRUCTIONS	1	900MGC, 900GC (THAI/ CHINESE(TRADEITIONAL)/HINDI)
!	315	VQT4C84	OPERATING INSTRUCTIONS	1	900MEE, 900EE (RUSSIAN/ UKRAINIAN)
!	315	VQT4C88	OPERATING INSTRUCTIONS	1	900MGK (CHINESE(SIMPLIFIED))
	316	VFF0983	CD-ROM(O/I)	1	900MEG, MEP, 900EG, EF, EP, 909EG
	316	VFF0984	CD-ROM(O/I)	1	900MGC, MEE, MGN, 900GC, EE, GN
	318	VPG3F90	PACKING CASE	1	900MP-K, MPC-K
	318	VYQ7770	PACKING CASE U	1	900MPU-K
	318	VPG3F91	PACKING CASE	1	900MEG-K, MEP-K, MEB-K, MGC-K, MEE-K, MGN-K
	318	VYQ7769	PACKING CASE U	1	900MGK-K
	318	VPG3F92	PACKING CASE	1	900EG-K, EF-K, EP-K, EB-K, GC-K, EE-K, GN-K
	318	VPG3F93	PACKING CASE	1	909EG-K
	318	VYQ7768	PACKING CASE U	1	909EG-S
	319	VPN7380	PAD	1	
	320	VPF1448	PROTECT BAG	1	
	B51	VHD1919	SCREW	1	
	B63	VHD1919	SCREW	1	
	B64	VHD1919	SCREW	1	
	B65	VHD1919	SCREW	1	(HC-X900M)
	B68	XQN16+BJ4FN	SCREW	1	
	B1	XQN16+BJ4FN	SCREW	1	
	B2	XQN16+BJ4FN	SCREW	1	
	B3	XQN16+BJ4FN	SCREW	1	
	B4	VHD1919	SCREW	1	
	B5	XQN16+BJ4FJK	SCREW	1	
	B6	XQN16+BJ4FJK	SCREW	1	
	B7	XQN16+BJ4FJK	SCREW	1	
	B8	VHD1919	SCREW	1	
	B9	XQN16+BJ4FN	SCREW	1	
	B10	XQN16+BJ4FN	SCREW	1	
	B11	XQN16+BJ4FN	SCREW	1	
	B12	XQN16+BJ4FN	SCREW	1	
	B13	XQN16+BJ4FN	SCREW	1	
	B14	XQN16+BJ4FN	SCREW	1	
	B15	XQN16+BJ4FN	SCREW	1	
	B16	XQN16+BJ4FN	SCREW	1	
	B17	XQN16+BJ4FN	SCREW	1	
	B18	XQN16+BJ4FN	SCREW	1	
	B19	VHD1687	SCREW	1	
	B20	VHD1687	SCREW	1	
	B21	XQN14+BJ4FJK	SCREW	1	
	B22	XQN14+BJ4FJK	SCREW	1	
	B23	XQN16+BJ5FN	SCREW	1	
	B24	XQN16+BJ5FN	SCREW	1	
	B25	XQN16+BJ10FN	SCREW	1	
	B26	XQN14+BJ4FN	SCREW	1	
	B27	XQN14+BJ4FN	SCREW	1	
	B28	XQN14+BJ4FN	SCREW	1	
	B29	XQN14+BJ4FN	SCREW	1	
	B30	XQN16+BJ6FJK	SCREW	1	
	B31	XQN16+BJ6FJK	SCREW	1	
	B33	XQN16+B3FN	SCREW	1	(HC-X900M)

Model No. : HC-X900MP/MPC/MPU/MEG/MEP/MEB/MGC/MEE/MGN/MGK/HC-X900EG/EF/EP/EB/GC/EE/GN/HC-X909EG Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	B35	XQN16+B3FN	SCREW	1	
	B36	XQN16+B3FN	SCREW	1	
	B37	XQN16+B3FN	SCREW	1	
	B38	XQN16+B3FN	SCREW	1	
	B39	XQN16+B3FN	SCREW	1	
	B40	XQN16+B3FN	SCREW	1	
	B41	XQN16+B3FN	SCREW	1	
	B42	XQN16+B4FJK	SCREW	1	
	B43	XQN16+B4FJK	SCREW	1	
	B44	XQN16+B4FJK	SCREW	1	
	B45	XQN16+B4FJK	SCREW	1	
	B46	XQN16+B4FJK	SCREW	1	
	B47	XQN16+B4FJK	SCREW	1	
	B48	XQN16+B4FJK	SCREW	1	
	B49	XQN16+B4FJK	SCREW	1	
	B50	XQN16+B4FJK	SCREW	1	
	B52	XQN16+B4FJK	SCREW	1	
	B53	XQN16+B4FJK	SCREW	1	
	B54	XQN16+B4FJK	SCREW	1	
	B55	XQN16+BJ4FJK	SCREW	1	
	B56	XQN16+BJ4FJK	SCREW	1	
	B57	VHD2189	SCREW	1	
	B58	VHD1907	SCREW	1	
	B59	VHD1907	SCREW	1	
	B60	VHD1907	SCREW	1	
	B61	VHD1907	SCREW	1	
	B62	VHD1907	SCREW	1	
	B66	VHD2233	SCREW	1	
	B67	XQN16+BJ4FN	SCREW	1	
	B201	VHD2072	SCREW	1	
	B202	VHD2072	SCREW	1	
	B203	VHD2072	SCREW	1	
	B204	VHD2072	SCREW	1	