Panasonic

ORDER NO. VM1502003CE

B27

Service Manual

4K Video Camera / High Definition Video Camera

Model No. HC-VX870PP
HC-VX870PU
HC-VX870EB
HC-VX870EE
HC-VX870EF
HC-VX870EG
HC-VX870EP
HC-VX870GC
HC-VX870GK
HC-VX870GW
HC-VX878EG
HC-V770PP
HC-V770EB
HC-V770EC
HC-V770EE
HC-V770EF
HC-V770EG
HC-V770EP
HC-V770GC
HC-V770GK
HC-V770GW
HC-V777EG
HC-V760EE

HC-WX970PP

HC-WX970PU
HC-WX970EB
HC-WX970EE
HC-WX970EF
HC-WX970EG
HC-WX970EP
HC-WX970GC
HC-WX970GK
HC-WX970GW
HC-WX979EG
HC-WX970MGH
HC-WX970MGK
HC-WX970MGN
HC-VX870MGH
HC-VX870MGK
HC-VX870MGN
HC-V770MGK
HC-V770MGN

Colour
(K).....Black Type
(W).....White Type (only HC-V770EB/EP,V777EG,V760EE)

HC-WX970/WX979/WX970M

HC-VX870/VX878/VX870M
HC-V770/V777/V770M/V760

⚠ 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.

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 MΩ and 5.2 MΩ. 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 kΩ, 10 W resistor, in parallel with a 0.15 μF 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 kΩ/V or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 V RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 mA. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

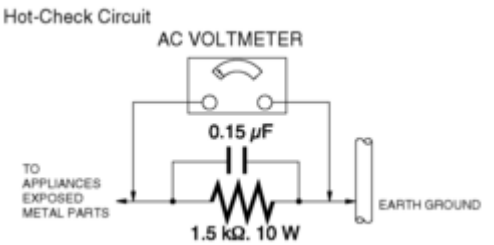

Hot-Check Circuit
AC VOLTMETER
0.15 μF
TO
APPLIANCES
EXPOSED
METAL PARTS
EARTH GROUND
1.5 kΩ. 10 W

Figure. 1

2 Warning

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

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

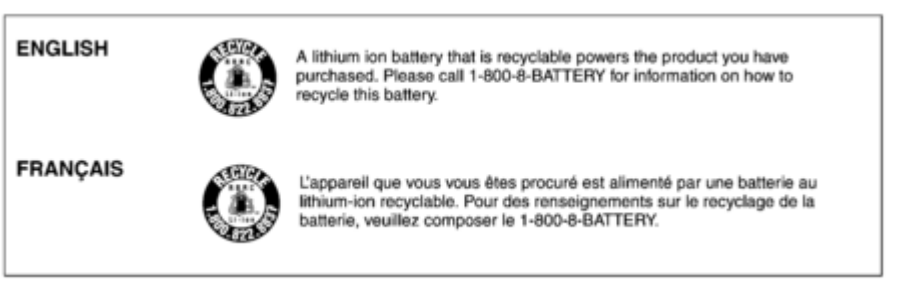
1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior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

2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an antistatic solder removal device. Some solder removal devices not classified as “antistatic (ESD protected)” can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).

7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

   CAUTION :
   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

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

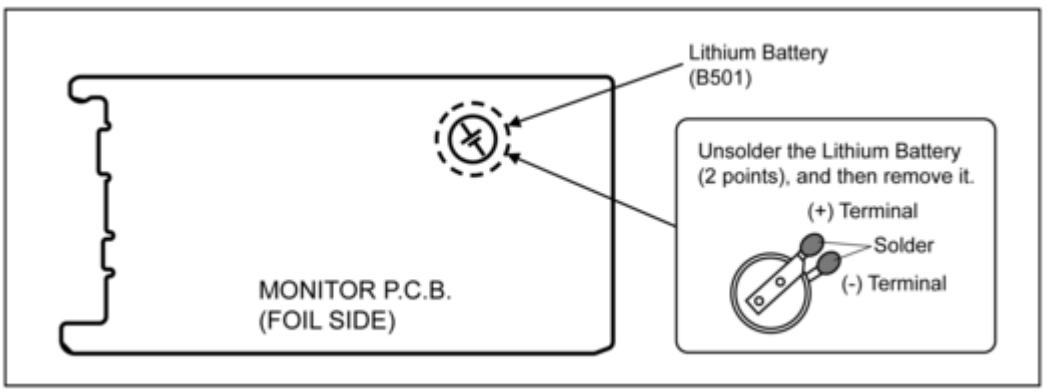


2.3 How to Replace the Lithium Battery

2.3.1 Replacement Procedure

1. Remove the MONITOR P.C.B.. (Refer to Disassembly Procedures.)
2. Unsolder the each soldering point of electric lead terminal for Lithium battery (Ref. No. “B501” at foil side of MONITOR P.C.B.) and remove the Lithium battery together with electric lead terminal. Then replace it into new one.

   NOTE:
   The Lithium battery includes electric lead terminals.



NOTE:
This Lithium battery is a critical component.
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-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 series, as well.

3 Service Navigation

3.1 Introduction

This service manual contains technical information, which allow service personnel's to understand and service this model.
Please place orders using the parts list and not the drawing reference numbers.
If the circuit is changed or modified, the information will be followed by service manual to be controlled with original service manual.

3.2 General Description About Lead Free Solder (PbF)

The lead free solder has been used in the mounting process of all electrical components on the printed circuit boards used for this equipment in considering the globally environmental conservation.
The normal solder is the alloy of tin (Sn) and lead (Pb). On the other hand, the lead free solder is the alloy mainly consists of tin (Sn), silver (Ag) and copper (Cu), and the melting point of the lead free solder is higher approx.30°C (86°F) more than that of the normal solder.

Distinction of 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.
  SVKZ000001----------(0.3mm 100g Reel)
  SVKZ000002----------(0.6mm 100g Reel)
  SVKZ000003----------(1.0mm 100g Reel)

Note
* Ingredient: Tin (Sn) 96.5%, Silver (Ag) 3.0%, Copper (Cu) 0.5%. (Flux cored)

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

There are eight kinds of HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760.

- a) HC-WX970M, W870M (Japan domestic model)

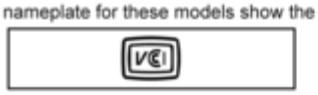
- b) HC-WX970PP, VX870PP, V770PP
- c) HC-WX970EB/EF/EG/EP, WX979EG, VX870EB/EF/EG/EP, VX878EG, V770EB/EC/EF/EG/EP, V777EG
- d) HC-WX970EE, VX870EE, V770EE
- e) HC-V760EE
- f) HC-WX970GK, WX970MGK, VX870GK, VX870MGK, V770GK, V770MGK
- g) HC-WX970MGN, VX870MGN, V770MGN
- h) HC-WX970PU/GC/GW, WX970MGH, VX870PU/GC/GW, VX870MGH, V770GC/GW

What is the difference is that the “INITIAL SETTING” data which is stored in Flash ROM mounted on Main P.C.B..

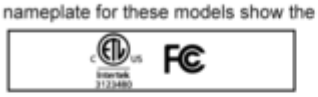
3.3.1 Defining methods:

To define the model suffix to be serviced, refer to the rating label and caution label which are putted on the Unit.

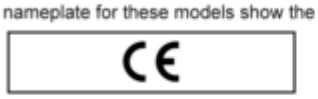
a) HC-WX970M, W870M (Japan domestic model)
The nameplate for these models show the following Safety registration mark.



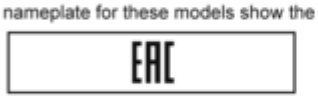
b) HC-WX970PP, VX870PP, V770PP
The nameplate for these models show the following Safety registration mark.



c) HC-WX970EB/EF/EG/EP, WX979EG,VX870EB/EF/EG/EP, VX878EG, V770EB/EC/EF/EG/EP, V777EG
The nameplate for these models show the following Safety registration mark.

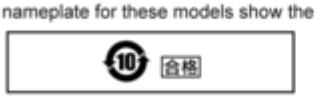


d) HC-WX970EE, VX870EE, V770EE
The nameplate for these models show the following Safety registration mark.

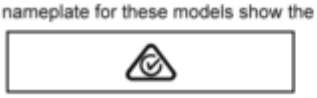


e) HC-V760EE
The nameplate for this model shows the following Safety registration mark.

f) HC-WX970GK, WX970MGK, VX870GK, VX870MGK, V770GK, V770MGK
The nameplate for these models show the following Safety registration mark.



g) HC-WX970MGN, VX870MGN, V770MGN
The nameplate for these models show the following Safety registration mark.



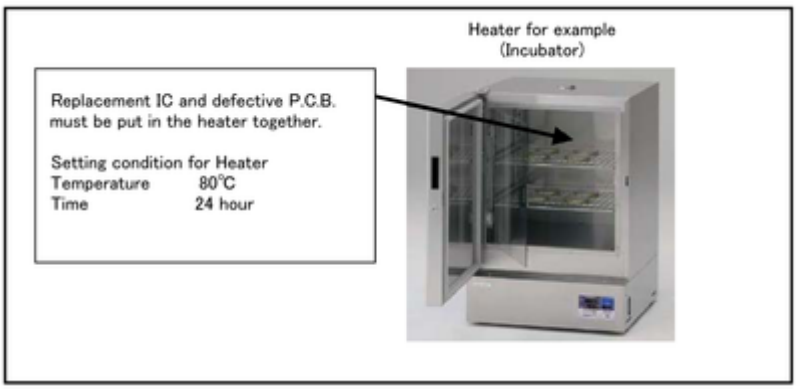
h) HC-WX970PU/GC/GW, WX970MGH, VX870PU/GC/GW, VX870MGH, V770GC/GW
The nameplate for these models does not show any above Safety registration mark.

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

3.4 Baking of replacement IC and defective P.C.B.

When replacing the CSP/BGA/QFN type IC mounted on the P.C.B., the problem of IC crack or foil pattern breaking in the P.C.B.
might sometimes occur by rapid heating.
In order to improve the success rate of IC replacement for repair, it would be required to work out baking of replacement IC and defective P.C.B. before replacing IC.
Please refer the way of baking as follows.
Replacement IC and defective P.C.B. must be put in the heater together.

- Baking temperature and time (Hour)
  80°C / 24 hour



4 Specifications

The following specification is for HC-WX970 series, VX870 series, V770 series, V760 series (EB/EP).
Some specifications may differ depending on model suffix.
The page number in this chapter does not show the page number of this service manual.

4K Video Camera/High Definition Video Camera
Information for your safety

Power source:
DC 5.0 V (When using AC adaptor)
DC 3.6 V (When using battery)

Power consumption:
Recording;
WX970 series
7.6 W
VX870 series
7.1 W
V770 series/V760
6.7 W
Charging; 7.7 W

Motion picture recording format:
[AVCHD];
AVCHD format version 2.0 compliant (AVCHD Progressive)
[MP4/iFrame];
MPEG-4 AVC file format compliant (.MP4)
WX970 series/VX870 series
[4K MP4];
MPEG-4 AVC file format compliant (.MP4)

Motion picture compression:
MPEG-4 AVC/H.264

Audio compression:
[AVCHD];
Dolby® Digital/5.1 ch (built-in microphone), 2 ch (built-in microphone/external microphone)
[MP4/iFrame];
AAC/2 ch
WX970 series/VX870 series
[4K MP4];
AAC/2 ch

Recording mode and transfer rate:
[AVCHD]
[1080/50p];
Maximum 28 Mbps (VBR)
[PH];
Maximum 24 Mbps (VBR)
[HA];
Average 17 Mbps (VBR)
[HG];
Average 13 Mbps (VBR)
[HE];
Average 5 Mbps (VBR)
[MP4/iFrame]
[1080/50M];
Maximum 50 Mbps (VBR)
[1080/28M];
Maximum 28 Mbps (VBR)
[720];
Average 9 Mbps (VBR)
[iFrame];
Maximum 28 Mbps (VBR)
WX970 series/VX870 series
[4K MP4];
[2160];
Maximum 72 Mbps (VBR)
Refer to the operating instructions (PDF format) for the picture size and recordable time of a motion picture.

Still picture recording format:
JPEG (Design rule for Camera File system, based on Exif 2.2 standard)
Refer to the operating instructions (PDF format) for picture size of a still picture and number of recordable pictures.

Recording media:
SD Memory Card
SDHC Memory Card
SDXC Memory Card
Refer to page 13 for details on SD cards usable in this unit.
WX970M/VX870M/V770M
Built-in memory; 16 GB

Image sensor:
WX970 series/VX870 series
1/2.3 type (1/2.3") 1MOS image sensor
Total; 18910 K
Effective pixels;
Motion picture; 8290 K (16:9)*2, 6100 K (16:9)*3, 4
Still picture; 8290 K (16:9), 6220 K (4:3), 7000 K (3:2)
V770 series/V760
1/2.3 type (1/2.3") 1MOS image sensor
Total; 12760 K
Effective pixels;
Motion picture; 6030 K (16:9)*4
Still picture; 6030 K (16:9), 4720 K (4:3), 5210 K (3:2)

Lens:
Auto Iris, 20× optical zoom, F1.8 to F3.6
Focal length;
4.08 mm to 81.6 mm
(Full range AF)
35 mm equivalent;
WX970 series/VX870 series
Motion picture;
30.8 mm to 626 mm (16:9)*1, 2,
37.0 mm to 752 mm (16:9)*3, 4
Still picture;
30.8 mm to 626 mm (16:9),
37.6 mm to 752.8 mm (4:3),
34.5 mm to 690.3 mm (3:2)
V770 series/V760
Motion picture;
29.5 mm to 612 mm (16:9)*4
Still picture;
29.5 mm to 612 mm (16:9),
36.2 mm to 724.6 mm (4:3),
33.5 mm to 669.9 mm (3:2)
Minimum focus distance;
Normal; Approx. 3 cm (Wide)/ Approx. 1.5 m (Tele)
Intelligent Auto Macro;
Approx. 1 cm (Wide)

Filter diameter:
49 mm

Zoom:
WX970/WX970M/VX870/VX870M
20× optical zoom, 25×*2/40×*3 i.Zoom, 60×/1500× digital zoom
WX979/VX878
20× optical zoom, 25×*2/40×*3 i.Zoom, 60×/250× digital zoom
V770/V770M/V760
20× optical zoom, 50× i.Zoom, 60×/1500× digital zoom
V777
20× optical zoom, 50× i.Zoom, 60×/250× digital zoom

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

Level Shot Function:
Off/Normal/Strong

Creative Control:
[Miniature Effect]/[Silent movie]/[8mm movie]/[Time Lapse Rec]

HDR movie:
Low/High

Monitor:
7.5 cm (3.0") wide LCD monitor (Approx. 460 K dots)

Microphone:
5.1 channel surround microphone/ Zoom microphone/Focus microphone/ Stereo microphone

Minimum required illumination:
Approx. 2 lx (1/25 with Low Light Mode in the Scene Mode)
WX970 series/VX870 series
Approx. 1 lx with the Night Mode ([COLOUR]) function
0 lx with the Night Mode ([Infrared]) function
V770 series/V760
Approx. 1 lx with the Night Mode function

*1 When Level Shot Function is set to off
*2 When [REC FORMAT] is set to [4K MP4].
*3 When [REC FORMAT] is set to [AVCHD] or [MP4/iFrame].
*4 When Level Shot Function is set to normal or off

AV connector video output level:
1.0 Vp-p, 75 Ω, PAL system
HDMI micro connector video output level:
WX970 series/VX870 series
HDMI™ (x.v.Colour™) 2160p/1080p/1080i/576p
V770 series/V760
HDMI™ (x.v.Colour™) 1080p/1080i/576p
AV connector audio output level (Line):
251 mV, 600 Ω, 2 ch
Headphone output:
85 mV, 32 Ω (Stereo mini jack)
HDMI micro connector audio output level:
[AVCHD];
Dolby Digital/Linear PCM
[iFrame], [MP4];
Linear PCM
WX970 series/VX870 series
[4K MP4];
Linear PCM
MIC input:
−60 dBV (Mic sensitivity −40 dB equivalent, 0 dB=1 V/Pa, 1 kHz)
(Stereo mini jack)
USB:
Reader function
SD card; Read only (No copyright protection support)
WX970M/VX870M/V770M
Built-in memory; Read only
Hi-Speed USB (USB 2.0), USB terminal Type micro AB
USB host function (for USB HDD)
Battery charging function (Charges from USB terminal when the main unit is off)
Dimensions:
65.0 mm (W)×73 mm (H)×139 mm (D)
(including projecting parts)
Mass:
WX970/WX979
Approx. 360 g
[without battery (supplied) and an SD card (optional)]
WX970M
Approx. 361 g
[without battery (supplied)]
VX870/VX878
Approx. 353 g
[without battery (supplied) and an SD card (optional)]
VX870M
Approx. 354 g
[without battery (supplied)]
V770/V777
Approx. 353 g
[without battery (supplied) and an SD card (optional)]
V770M
Approx. 354 g
[without battery (supplied)]
V760
Approx. 350 g
[without battery (supplied) and an SD card (optional)]
Mass in operation:
WX970/WX979
Approx. 405 g
[with battery (supplied) and an SD card (optional)]
WX970M
Approx. 404 g
[with battery (supplied)]
VX870/VX878
Approx. 398 g
[with battery (supplied) and an SD card (optional)]
VX870M
Approx. 397 g
[with battery (supplied)]
V770/V777
Approx. 398 g
[with battery (supplied) and an SD card (optional)]
V770M
Approx. 397 g
[with battery (supplied)]
V760
Approx. 395 g
[with battery (supplied) and an SD card (optional)]
Operating temperature:
0 °C to 40 °C
Operating humidity:
10%RH to 80%RH
Battery operation time:
See page 12

WX970 series/VX870 series/V770 series
Wireless transmitter:
Compliance standard; IEEE802.11b/g/n
Frequency range used;
Central frequency 2412 MHz to 2462 MHz [11ch]
Encryption method; Wi-Fi compliant WPA™/WPA2™/WEP
Access method; Infrastructure mode
NFC:
Compliance standard; ISO/IEC 18092 NFC-F (Passive Mode)

WX970 series
Sub Camera

Image sensor:
1/4 type (1/4") 1MOS image sensor
Total; 5270 K
Lens:
F2.2
Focal length;
3.54 mm
35 mm equivalent (Motion picture);
37.2 mm
Minimum focus distance;
Approx. 30 cm

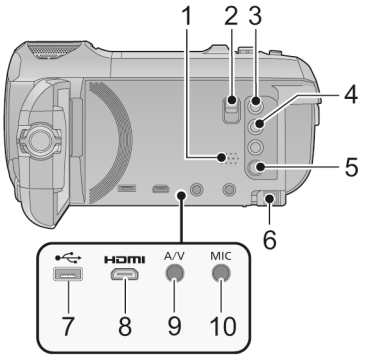
AC adaptor
Information for your safety

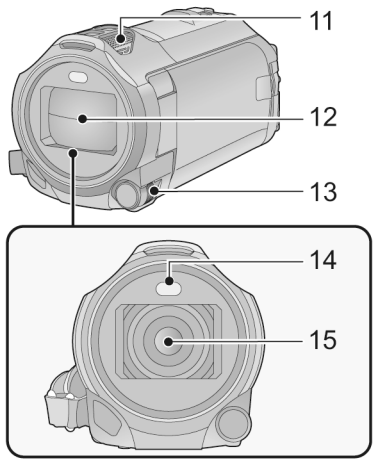
Power source:
AC 110 V to 240 V, 50/60 Hz
AC input:
0.25 A
DC output:
DC 5.0 V, 1.8 A

Dimensions:
(VSK0815L)
66.4 mm (W)×72 mm (H)×46.3 mm (D)
(VSK0815K)
66.4 mm (W)×78.8 mm (H)×31 mm (D)
Mass:
(VSK0815L)
Approx. 70 g
(VSK0815K)
Approx. 65 g

5 Location of Controls and Components

The following description is for HC-WX970 series, VX870 series, V770 series, V760 series (EB/EP).
Some descriptions may differ depending on model suffix.
The page number in this chapter does not show the page number of this service manual.





1 Speaker

2 Shoe adaptor release lever [SHOE ADAPTOR RELEASE] (➜ 247)

3 Recording/playback button [/] (➜ 18)

4 Level Shot Function button [ ] (➜ 45)

5 Power button [/] (➜ 17)

6 Battery release lever [BATT] (➜ 11)

7 USB terminal [ ] (➜ 137, 144, 219)

8 Micro HDMI connector [HDMI] (➜ 129)

9 A/V connector [A/V] (➜ 129, 146)

10 Microphone terminal [MIC]

- A compatible plug-in powered microphone can be used as an external microphone.
- If you connect an external microphone when a setting other than [AUTO] is selected for [MIC LEVEL] (➜ 90), 2ch (Microphone input level meter) will be displayed.
- 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.

11 Internal microphones

12 Lens cover

- The lens cover opens in Motion Picture Recording Mode or Still Picture Recording Mode. (➜ 18)

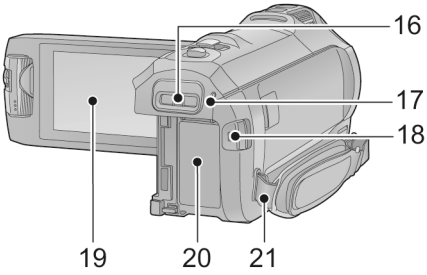
13 Multi Manual Dial [CAMERA FUNCTION] (➜ 65, 91)

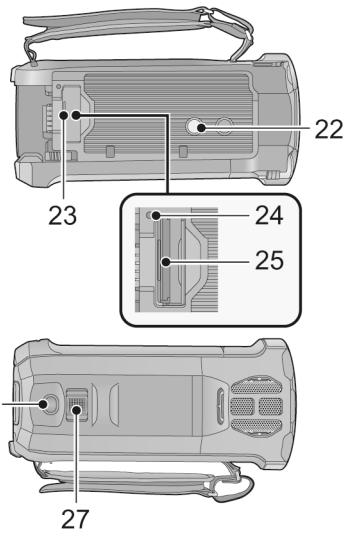
14 Video light (➜ 78, 94)

15 WX970 series/VX870 series Lens (LEICA DICOMAR)

- For information on how to attach the supplied lens hood, refer to page 23.

V770 series/V760 Lens



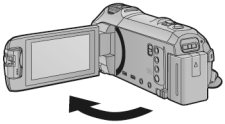


16 Shoe adaptor mounting part [SHOE ADAPTOR] (➜ 247)

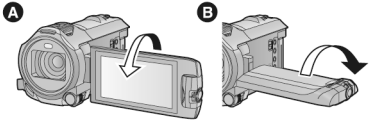
17 WX970 **series/** VX870 **series/** V770 **series**
Status indicator (➜ 17, 182)
V760
Status indicator (➜ 17)

18 Recording start/stop button (➜ 25)

19 LCD monitor (Touch screen) (➜ 19)



- It can open up to 90°.



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

20 Battery holder (➜ 11)

21 Shoulder strap fixture

22 Tripod receptacle

- Attaching a tripod with a screw length of 5.5 mm or more may damage the unit.

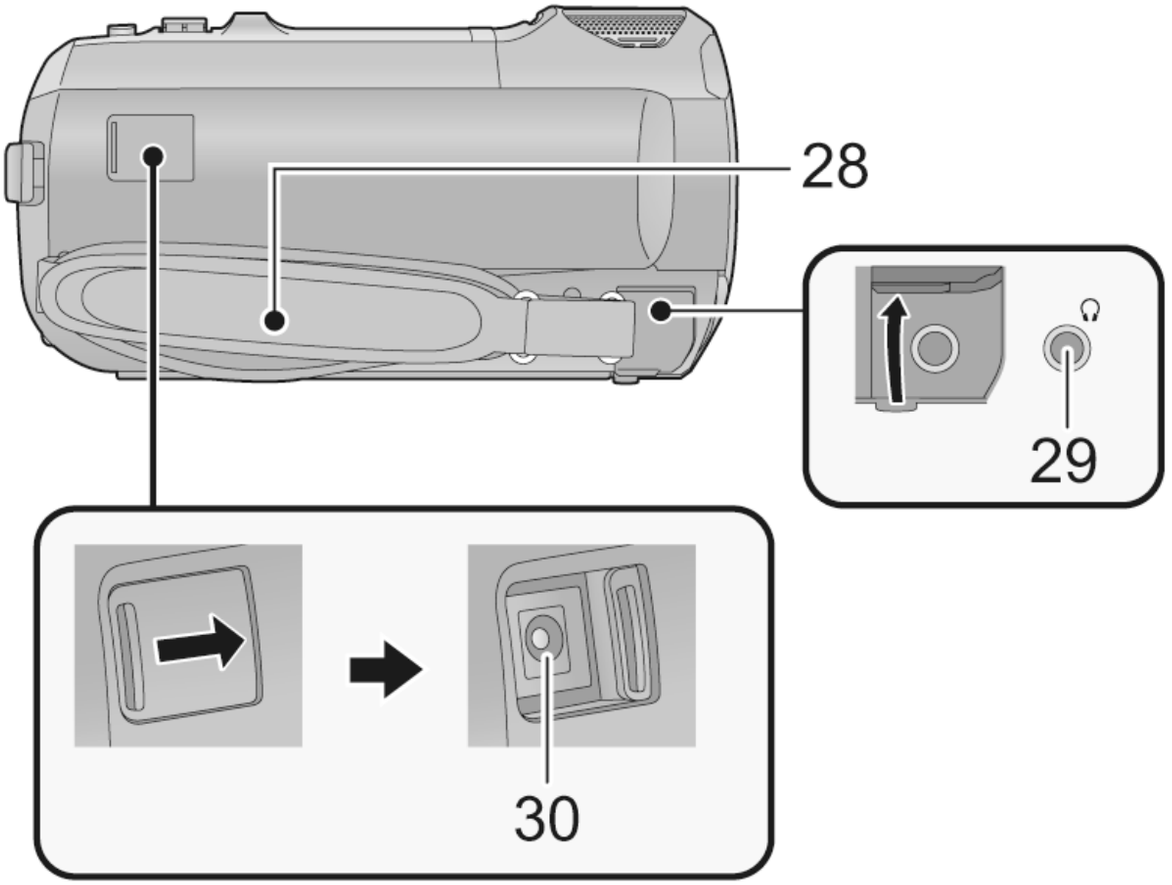
23 SD card cover (➜ 16)

24 Access lamp [ACCESS] (➜ 16)

25 Card slot (➜ 16)

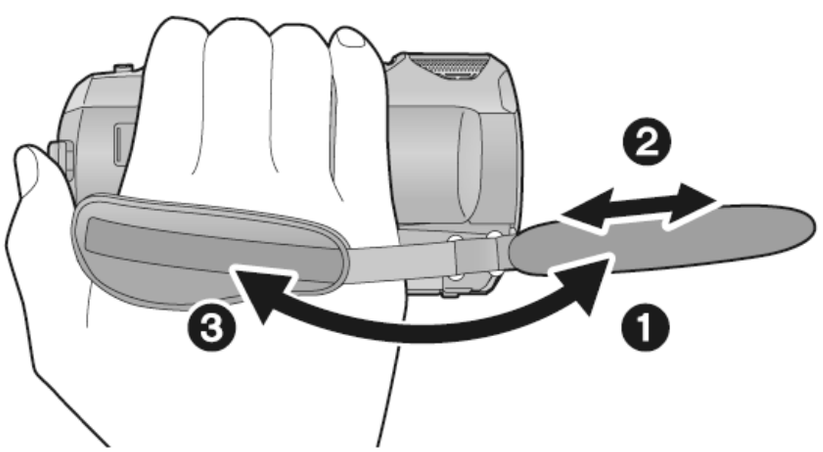
26 Photoshot button [ ] (➜ 27)

27 Zoom lever [W/T] (In Motion Picture Recording Mode or Still Picture Recording Mode) (➜ 44)/ Thumbnail display switch [/]/ Volume lever [−VOL+] (In Playback Mode) (➜ 31)



28 Grip belt

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



❶ Flip the belt.
❷ Adjust the length.
❸ Replace the belt.

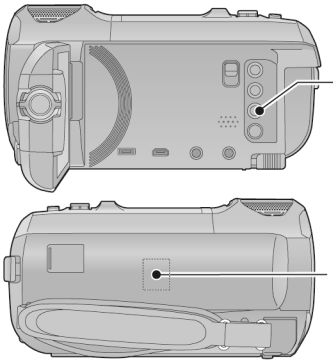
29 Headphone terminal [🎧] (➜ 79)

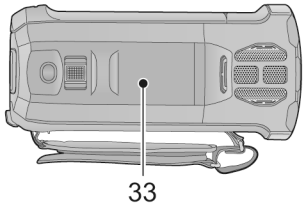
- Excessive sound pressure from earphones and headphones can cause hearing loss.
- Listening at full volume for long periods may damage the user's ears.

30 DC input terminal [DC IN] (➜ 12)

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

WX970 series/ VX870 series/ V770 series



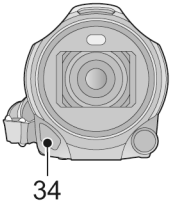


31 **Wi-Fi button [Wi-Fi] (➜ 152, 159, 162, 169, 171, 175, 190, 193)**

32 **Wi-Fi Transmitter (➜ 151)**

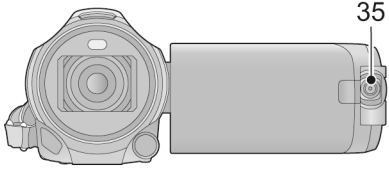
33 **NFC touch area [ ] (➜ 154, 163, 202)**

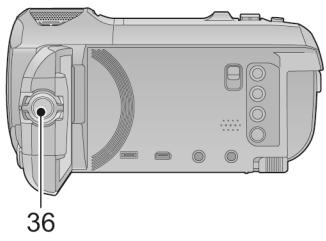
WX970 series/ VX870 series



34 **Infrared light (➜ 78)**

WX970 series





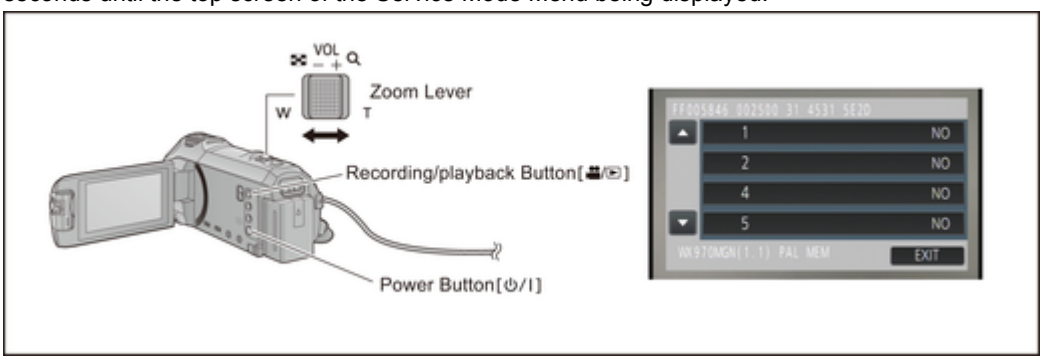
35 **Sub Camera (➜ 46)**

36 **Sub Camera dial (➜ 47)**

6 Service Mode

Indication method of the service menu

1. Keep pressing the “Power” button, “Zoom Lever” to W side and “Recording/Playback” 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.
2	Model/Destination settings	Change the Model/Destination. (Selectable models and destinations are displayed.)
4	Lock search history indication	Display the main and sub (*) camera system error cord for each 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.
14	Adjutment function for the service	The service adjustment do setup and adjustment of the following items required in the field service.
15	Restore the backed up adjustment data	Restore the adjustment data to new or repaired Main P.C.B. from SD card that the data backed up from original Main P.C.B. before repairs or replacement.
16	Touch panel calibration	Calibrate the touch positions of the touch panel.
17	NFC initialization (except HC-V760)	Performs the Initialization of the NFC chip and erase the settings like as Wi-Fi connection etc..

(*) HC-WX970/WX979/WX970M only

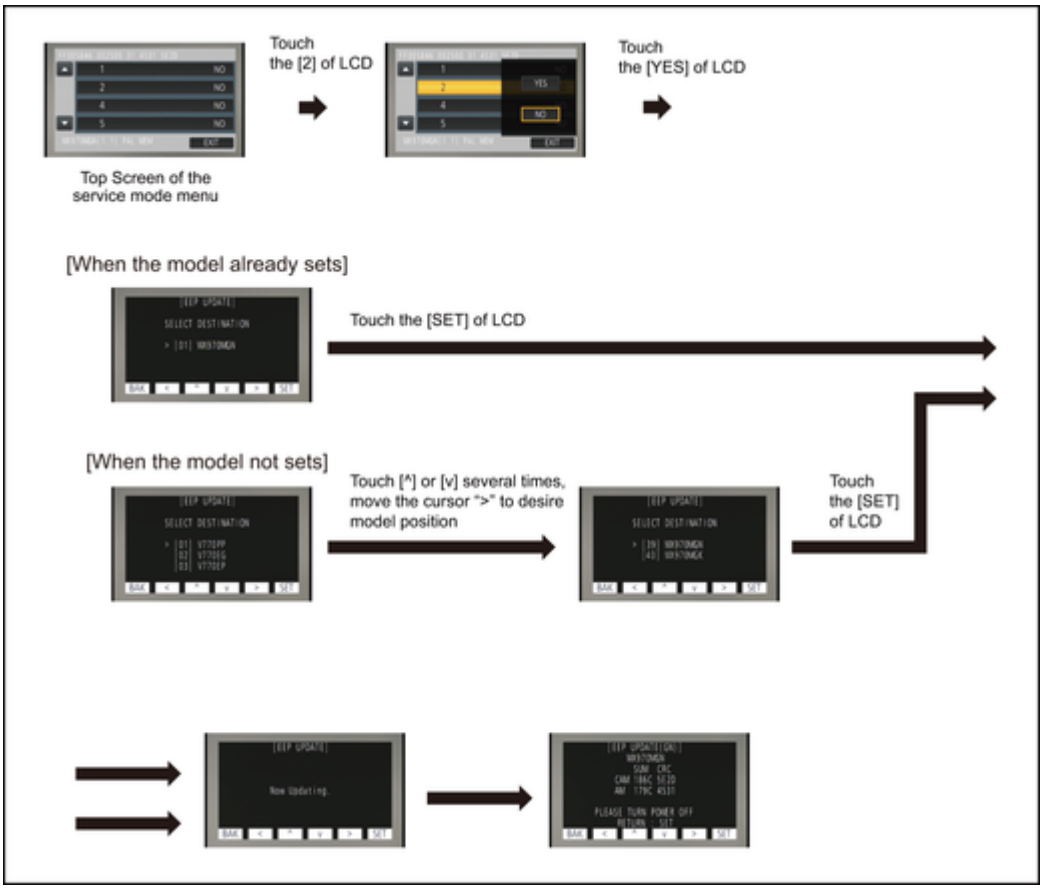
NOTE:
Do not using service mode except above table of Service mode menu.

2. 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 Model/Destination Settings

Touch the [2] of LCD, select model/destination settings.

Operation specifications



Function description

- Change the Model/Destination
  Display the lists of model/distination which the unit can be changed, if a shipment setup is finished.
  Therefore in some cases, the model/destination that is currently set is only displayed.

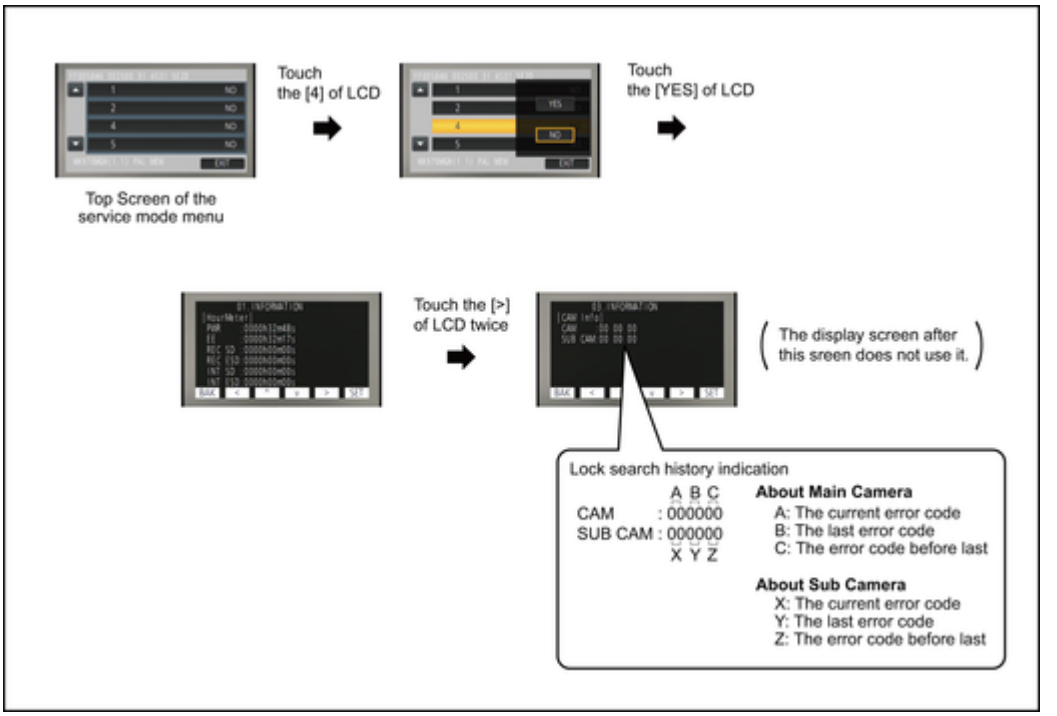
End method of operation

- Touch the [SET] of LCD to exit the mode/destination settings, and then POWER OFF.

6.2 Lock Search and Error History Indication

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

Operation specifications



Indication contents

1. Main Camera
   - Lock search history indication of main camera
     Display the main camera system error code for three histories saved in EEPROM.
   - The error code contents which are displayed

Error code	Description	Problematic Parts
51	Focus control is abnormal	LENS UNIT
52	Zoom control is abnormal	2ND STEPPING MOTOR / LENS UNIT
53	OIS lens control is abnormal	LENS UNIT
54	Zoom control is abnormal (2)	3RD STEPPING MOTOR / LENS UNIT
55	Zoom control is abnormal (3)	4TH STEPPING MOTOR / LENS UNIT
71	Lens barrier open/close is abnormal	BARRIER MOTOR UNIT / LENS FRAME UNIT

2. Sub Camera (HC-WX970/WX979/WX970M only)
   - Lock search history indication of sub camera
     Display the sub camera system error code for three histories saved in EEPROM.
     (Display always “--” for no sub camera models.)
   - The error code contents which are displayed

Error code	Description	Problematic Parts
91	Sub camera error	SUB CAMERA UNIT

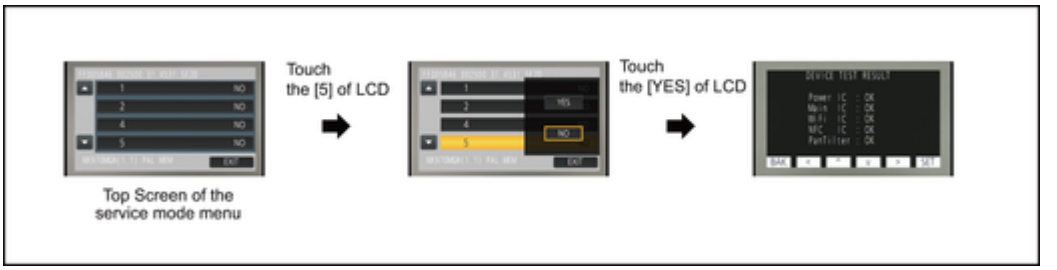
End method of operation

- Touch the [BAK] of LCD to exit the lock search and error history indication, 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.
  - Power IC : Communication test between IC3401 and IC1503.
  - Main IC : DDR. Communication test inside IC3401.
  - WiFi IC : Communication test between IC3401 and Wi-Fi P.C.B..
  - NFC IC : Communication test between IC3401 and NFC P.C.B. unit.

  Display other than “OK” are abnomalities of each lines.
  - PanTilter : Error display of the Remote Pan Tilt Cradle (VW-CTR1)
    (When not connected the remote pan tilt cradle, display “--”.)
    When error is occurred, display “NG” with the error code.

Error Code	Description
NG 01	Battery undercut
NG 04	The start-up state of the update error factor
NG 10	The failure of Tilt motor
NG 80	USB Communication Error

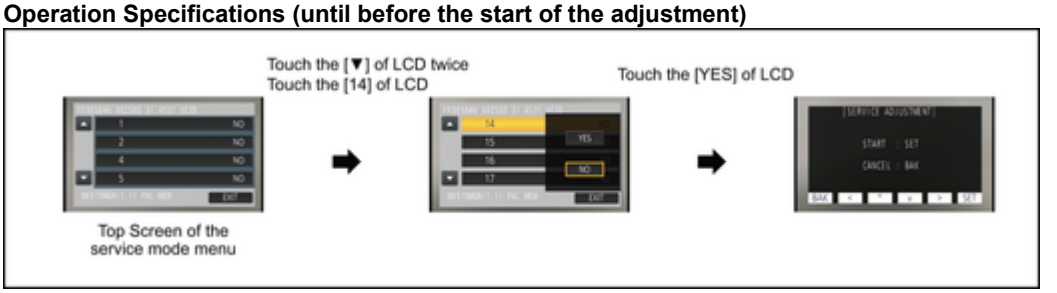
End method of operation

- Touch the [BAK] of LCD to exit the power on self check result display, and the POWER OFF.

6.4 Adjustment function for the Service

Touch the [14] of LCD, select the adjustment function for the service.

Operation Specifications (until before the start of the adjustment)



Function description
The service adjustment do setup and adjustment of the following items required in the field service.
For a detailed content, such as the adjustment procedure, refer to “9 Measurements and Adjustments”.

- Model setting
- Setting of the file name for adjustment data backup to SD card.
- Execution of adjustment data backup to SD card
- Checking of Switches
- Camera adjustment
- Zoom Tracking adjustments

- Indoor White Balance Adjustment
- Outdoor White Balance Adjustment
- Level shot adjustment

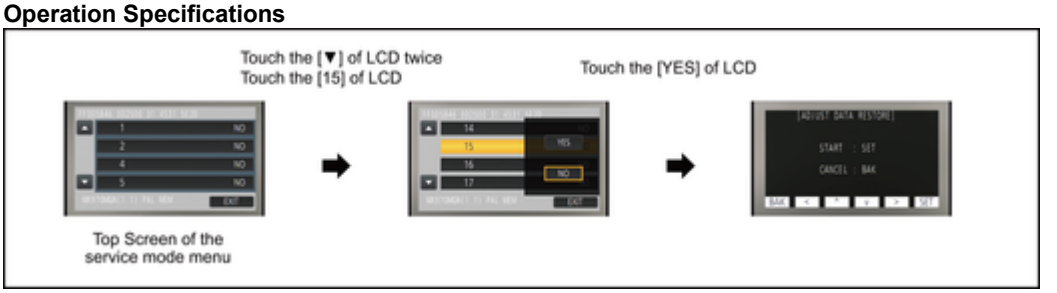
End method of operation

- Press the power button to turn the unit off.

6.5 Restore the backed up adjustment data

Touch the [15] of LCD, select restoring the backed up adjustment data from SD card to the unit.

Operation Specifications

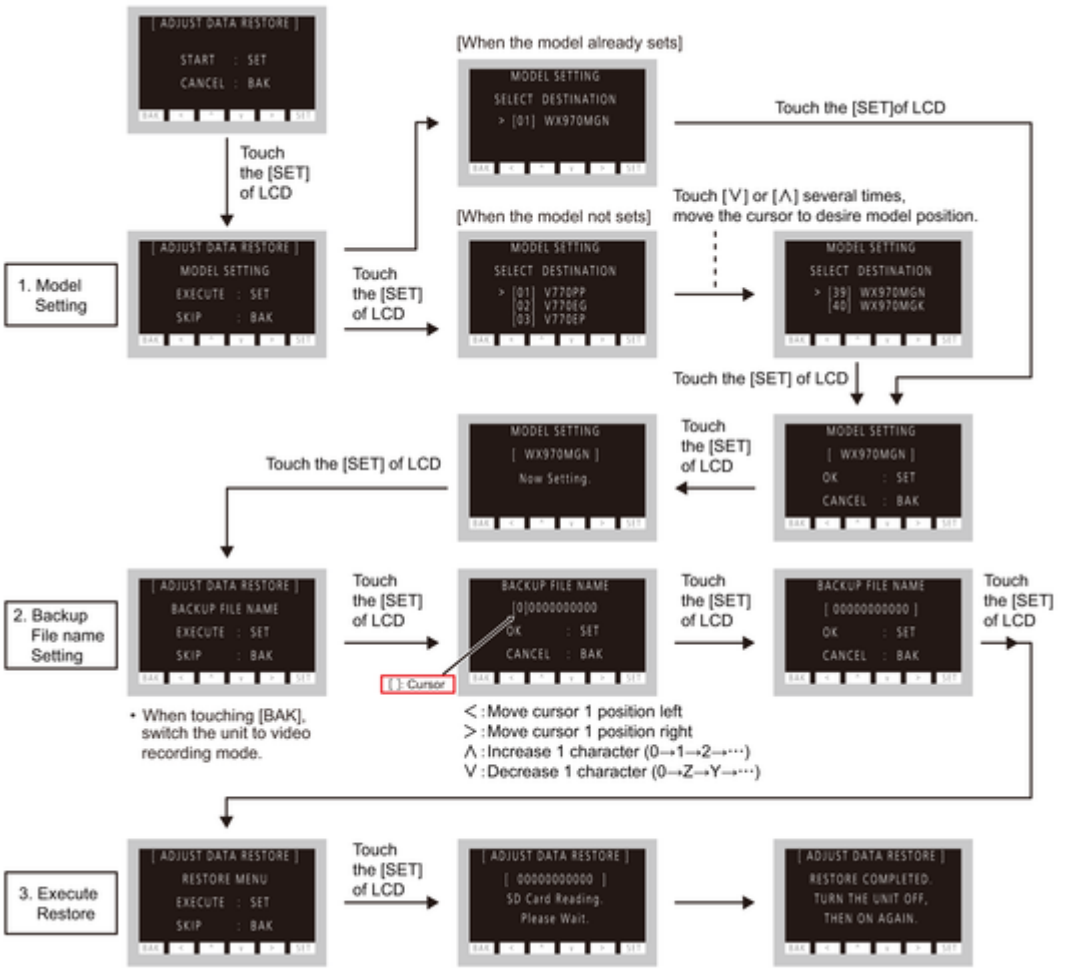


Function description

Restore the adjustment data to new or repaired Main P.C.B. from SD card that the data backed up from original Main P.C.B. before repairs or replacement.

To backup the adjustment data, use “6.4. Adjustment function for the Service”.

Restoring procedure



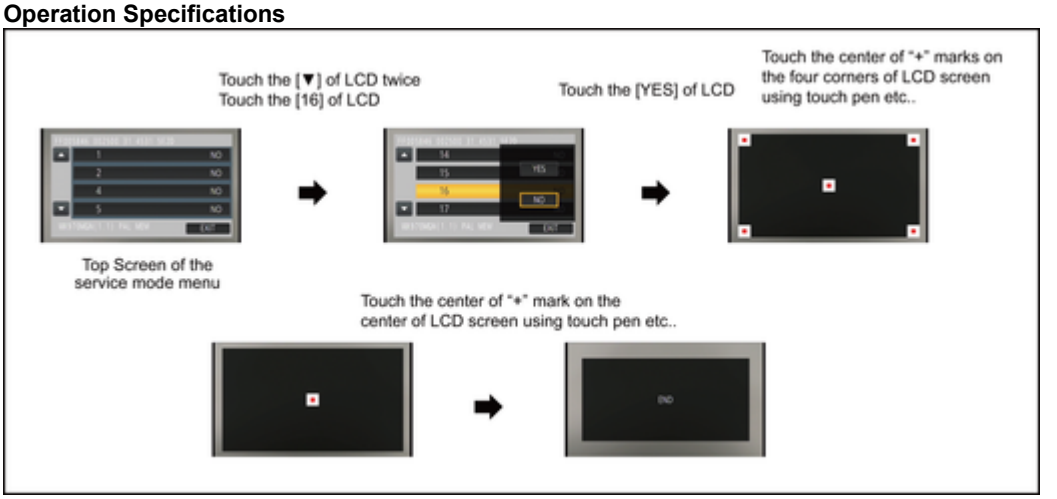
End method of operation

- Press the power button to turn the unit off.

6.6 Touch Panel Calibration

Touch the [16] of LCD, select the calibration of touch panel.

Operation Specifications



Function description

Calibrate the touch positions of the touch panel.

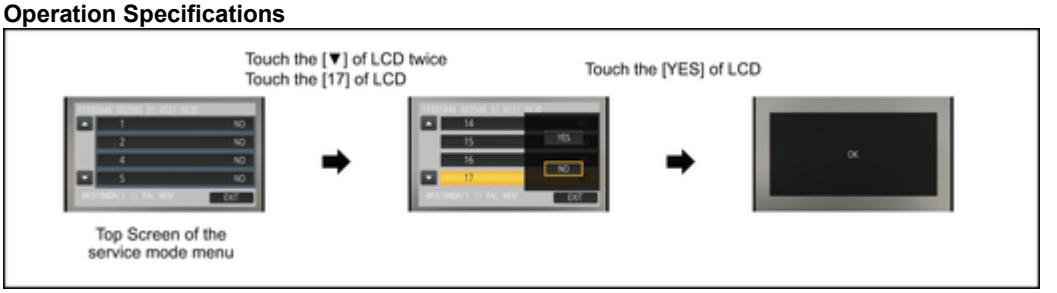
End method of operation

- Press the power button to turn the unit off.

6.7 NFC Initialization (except HC-V760)

Touch the [17] of LCD, select initialization of NFC (Near Field Communication) function.

Operation Specifications



Function description

This function performs the Initialization of the NFC chip and erase the settings like as Wi-Fi connection etc..

End method of operation

- Remove the battery or AC adapter to turn the unit off.

7 Service Fixture & Tools

7.1 When Replacing the Main P.C.B.

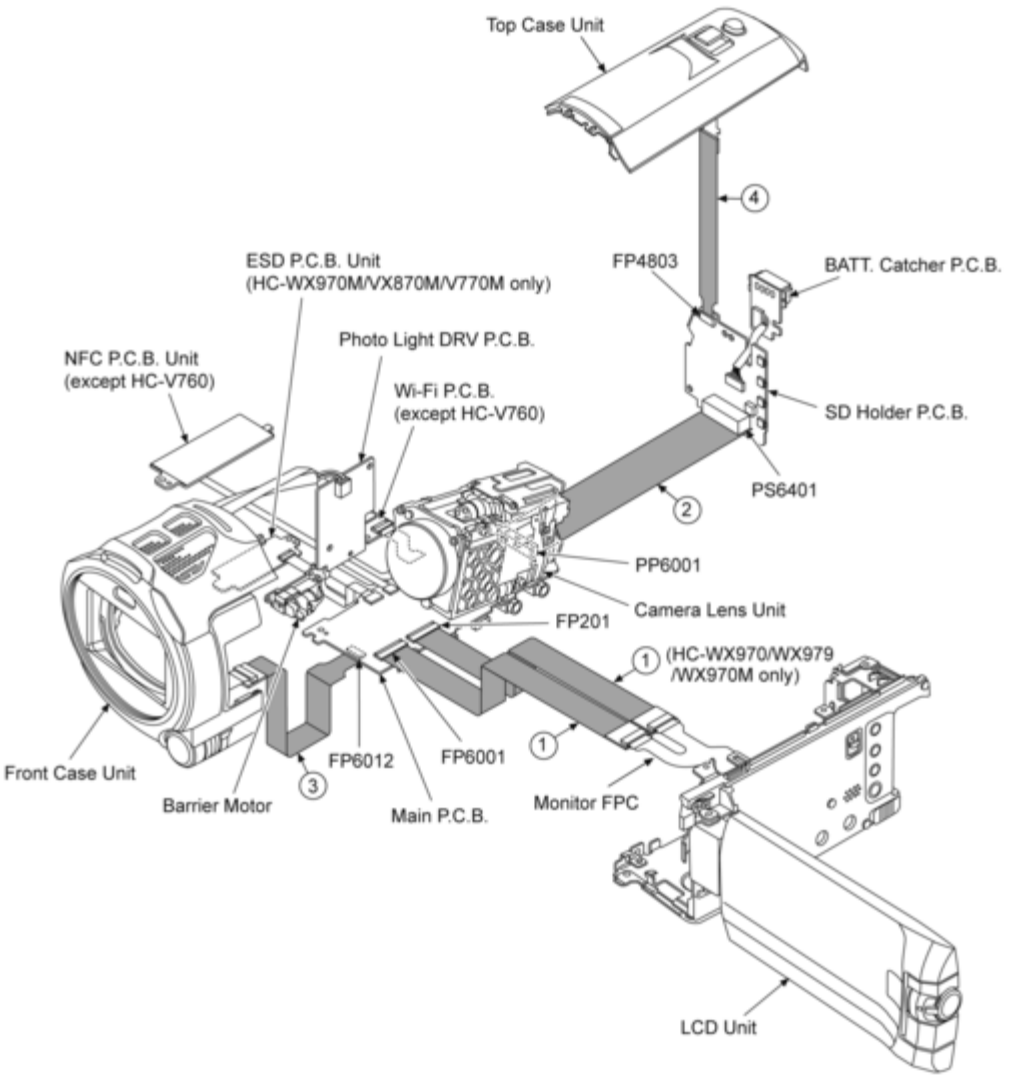
After replacing the MAIN P.C.B., be sure to achieve adjustment.

7.2 Service Position

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

No.	Parts No.	Connection	Form
1	RFKZ0354	FP6001(MAIN) - MONITOR FPC	37PIN 0.3 FFC
1	RFKZ0354	FP201(MAIN) - MONITOR FPC (HC-WX970/WX979/WX970M only)	37PIN 0.3 FFC
2	VFK1581A6025	PP6001(MAIN) - PS6401(SD HOLDER)	60PIN 0.5 B to B
3	VFK1388	FP6012(MAIN) - FRONT FFC	12PIN 0.5 FFC
4	VFK1440	FP4803(SD HOLDER) - TOP CASE UNIT	10PIN 0.5 FFC

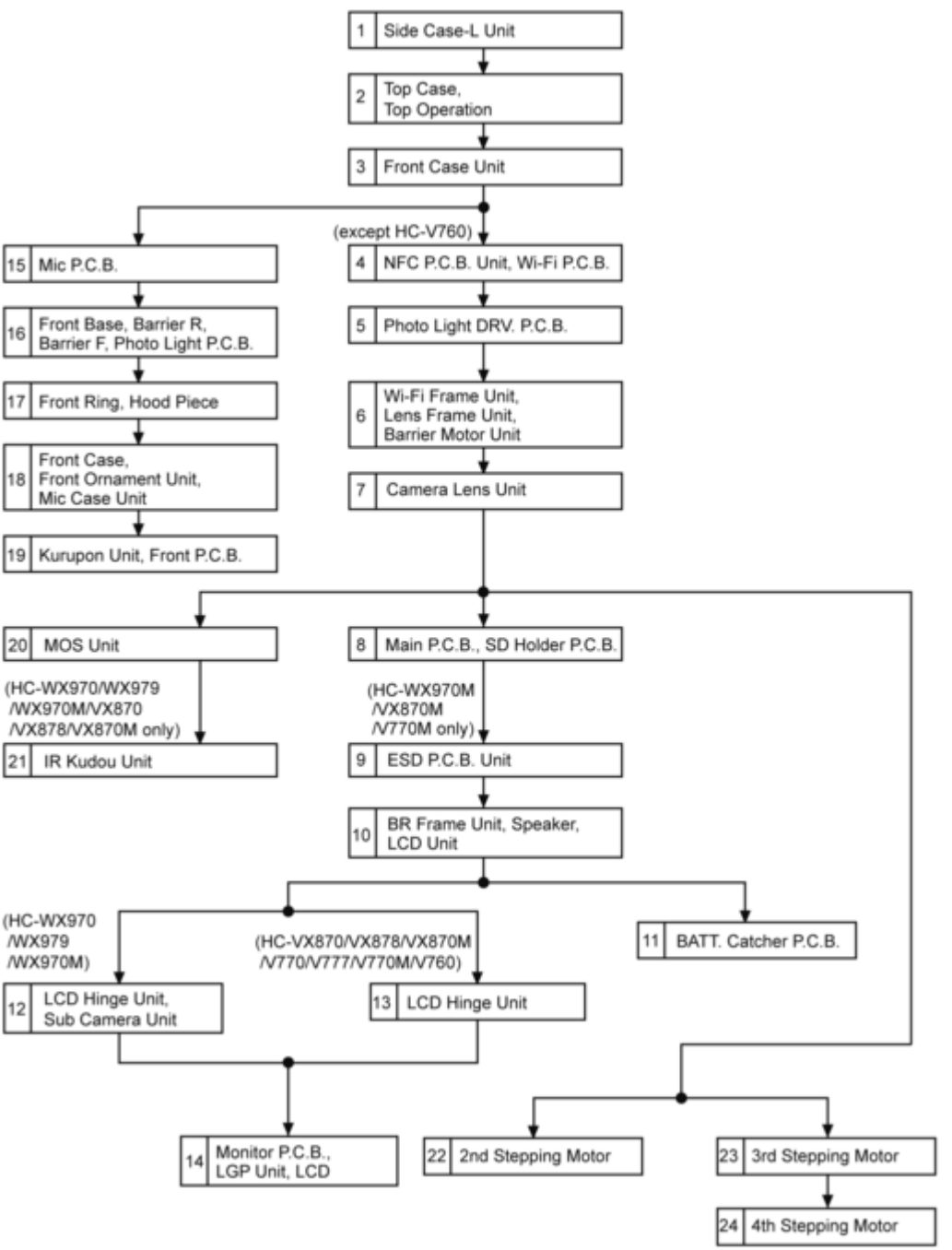
7.2.1 Extention Cable Connection


Top Case Unit
4
ESD P.C.B. Unit
(HC-WX970M/VX870M/V770M only)
FP4803
BATT. Catcher P.C.B.
Photo Light DRV P.C.B.
NFC P.C.B. Unit
(except HC-V760)
Wi-Fi P.C.B.
(except HC-V760)
SD Holder P.C.B.
PS6401
2
PP6001
Camera Lens Unit
FP201
1
(HC-WX970/WX979
/WX970M only)
Front Case Unit
FP6012
FP6001
1
3
Barrier Motor
Main P.C.B.
Monitor FPC
LCD Unit

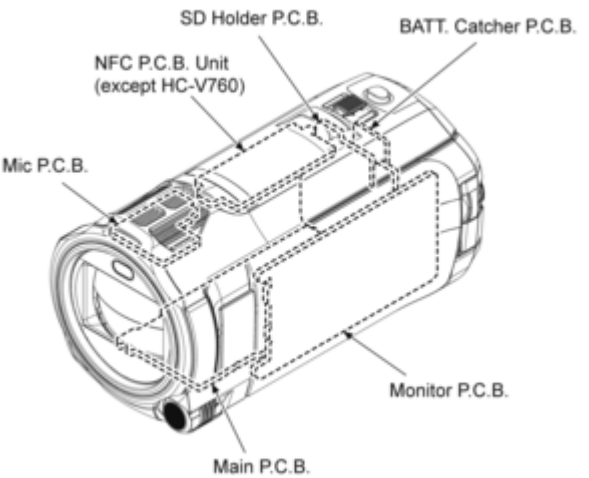
8 Disassembly and Assembly Instructions

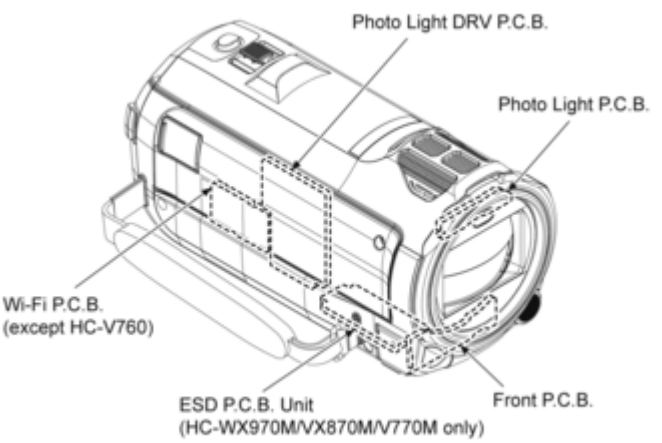
8.1 Disassembly Flow Chart for the Unit

This is a disassembling chart.
When assembling, perform this chart conversely.



8.2 PCB Location





8.3 Disassembly Procedure for the Unit

No.	Item	Fig.	Removal
1	Side Case-L Unit	(Fig. D1)	Screw (A) × 2
			Screw (B) × 2
		(Fig. D2)	Screw (C) × 3
			Locking tab ×3
			Side Case-L Unit
		(Fig. D3)	Screw (D) × 1
			Locking tab ×1
			SS Button
			Jack Cover Piece
			SS Lever
			Jack Door Spring
			DC Jack Cover Unit

			Screw (E) × 2
			HP Jack Cover Piece
			HP Jack Cover
			Locking tab ×2 (HC-WX970/WX979 /WX970M/VX870 /VX878/VX870M only)
			IR Piece (HC-WX970/WX979 /WX970M/VX870 /VX878/VX870M only)
2	Top Case, Top Operation	(Fig. D4)	Screw (F) × 1
			Screw (G) × 1
		(Fig. D5)	Screw (H) × 1
			Locking tab ×1
			Projecting part × 2
			FP4803 (Flex)
		(Fig. D6)	Screw (I) × 4
			Convex × 2
			Top Shoe Angle
			Screw (J) × 3
			Top Operation
			Power Panel Light
			Shoe Cover
			Cover Open Spring
			Locking tab ×1
			Top Ornament
			Top Case
		(Fig. D7)	(When Installing)
3	Front Case Unit	(Fig. D8)	Screw (K) × 1
			Screw (L) × 2
		(Fig. D9)	Flex A
			Lead wire A
			Screw (M) × 1
			Locking tab ×1
			Convex × 1
			FP6012 (Flex)
			Front Case Unit
4	(except HC-V760) NFC P.C.B. Unit, Wi-Fi P.C.B.	(Fig. D10)	FP6007 (Flex)
			Screw (N) × 1
			Hooking part × 1
			NFC P.C.B. Unit
			Flex B
			Screw (N) × 1
			Hooking part × 1
			Wi-Fi P.C.B.
5	Photo Light DRV P.C.B.	(Fig. D11)	Screw (O) × 2
			Flex C
			Photo Light DRV P.C.B.
6	Wi-Fi Frame Unit, Lens Frame Unit, Barrier Motor Unit,	(Fig. D12)	Screw (P) × 2
			Convex × 3
			Hooking part × 2
			Wi-Fi Frame Unit
		(Fig. D13)	Screw (Q) × 1
			Hooking part × 3

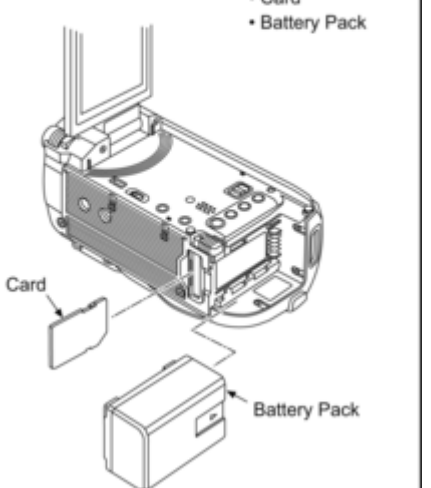
			FP6005 (Flex)
		(Fig. D14)	Screw (R) × 2
			Barrier Motor Unit
			Lens Frame Unit
7	Camera Lens Unit	(Fig. D15)	FP6001 (Flex)
			FP301 (Flex)
			Convex × 2
			Camera Lens Unit
8	Main P.C.B., SD Holder P.C.B.	(Fig. D16)	Screw (S) × 5
			Hooking part × 3
			Heat Radiation Plate Unit
		(Fig. D17)	P6003 (Connector)
			P6401 (Connector)
			FP201 (Flex) (HC-WX970/WX979 /WX970M only)
			FP6001 (Flex)
			Hooking part × 1
		(Fig. D18)	FP6011 (Flex) (HC-WX970M/VX870M /V770M only)
			Main P.C.B.
			SD Holder P.C.B.
9	(HC-WX970M/VX870M /V770M only) ESD P.C.B. Unit	(Fig. D19)	Screw (T) × 1
			ESD P.C.B. Unit
10	BR Frame Unit, Speaker, LCD Unit	(Fig. D20)	Screw (V) × 2
			Screw (W) × 2
			Screw (X) × 2
			Locking tab ×2
			Convex × 4
		(Fig. D21)	BR Frame Unit
			Shoe Lock Knob
			Shoe Lock Spring
			Speaker
			LCD Lever
			Convex × 3
		(Fig. D22)	Convex × 2
			LCD Unit
11	Batt. Catcher P.C.B.	(Fig. D23)	SD Door Unit
			SR OP Button
		(Fig. D24)	Hooking part × 2
			BATT. Frame
			Batt. Catcher P.C.B.
12	(HC-WX970/WX979 /WX970M) LCD Hinge Unit, Sub Camera Unit	(Fig. D25)	Screw (Y) × 2
			Screw (Z) × 2
			Locking tab ×8
			LCD Case (T) Unit
			FP251 (Flex)
			FP901 (Flex)
		(Fig. D26)	LCD Hinge Unit
			Screw (a) × 1
			FP252 (Flex)
			Convex × 3
			LCD Frame A

			Convex × 1
			Sub Camera Unit
13	(HC-VX870/VX878 /VX870M/V770 /V777/V770M/V760) LCD Hinge Unit	(Fig. D27)	Screw (Y) × 2
			Screw (Z) × 2
			Locking tab × 9
			LCD Case (T) Unit
			FP901(Flex)
		(Fig. D28)	LCD Hinge Unit
			Screw (a) × 1
			Convex × 3
			LCD Frame A
14	Monitor P.C.B., LGP Unit, LCD	(Fig. D29)	FP904(Flex)
			FP905(Flex)
			Locking tab ×1
			Hooking part × 1
			Monitor P.C.B.
			Locking tab ×4
			LGP Unit
			LCD
			TP tape
			LCD Frame B
			LCD Case (B) Unit
		(Fig. D30)	Reflection Sheet
			Light Guide Plate
			Diffusion Sheet
			Prism Sheet B
			Prism Sheet A
			LGP Holder
15	Mic P.C.B.	(Fig. D31)	Screw (b) × 1
			FP4802 (Flex)
			Mic P.C.B.
16	Front Base, Barrier R, Barrier F, Photo Light P.C.B.	(Fig. D32)	Projecting part × 3
			Lens Damper Rubber
			Screw (c) × 5
		(Fig. D33)	Front Base
			Barrier R
			Barrier F
			Hooking part × 1
			Convex × 2
			Photo Light P.C.B.
17	Front Ring, Hood Piece	(Fig. D34)	Screw (d) × 2
			Front Ring
			Convex × 2
			Locking tab ×6
			Hood Piece
			LED Light Cover
			Hood Mask
			LED Light Lens
18	Front Case, Front Ornament Unit, Mic Case Unit	(Fig. D35)	Screw (e) × 1
			Screw (f) × 1
			Convex × 1
			Locking tab ×1
			Convex × 2
			Locking tab ×1
			Front Case

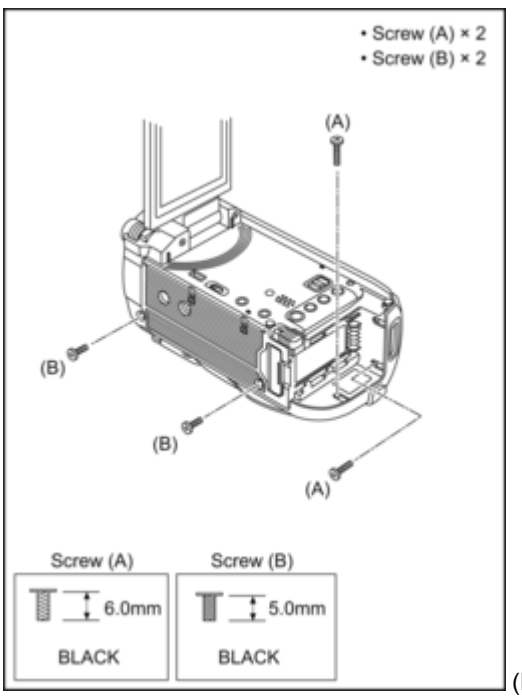
			Locking tab ×2
			MF Ornament
			Front Ornament Unit
		(Fig. D36)	Screw (g) × 2
			Mic Earth Plate
			Mic Case Unit
			Mic Net Cover
19	Kurupon Unit, Front P.C.B.	(Fig. D37)	Screw (h) × 2
			Locking tab ×2
			Convex × 2
			FR Earth Angle
			FP6501 (Flex)
			Kurupon Unit
			Locking tab ×1
			Convex × 2
			Front P.C.B.
20	MOS Unit	(Fig. D38)	Screw (i) × 3
			Convex × 2
			MOS Unit
			MOS Cushion
21	(HC-WX970/WX979 /WX970M/VX870 /VX878/VX870M only) IR Kudou Unit	(Fig. D39)	Solder × 2 points
			Screw (j) × 1
			Convex × 2
			IR Kudou Unit
22	2nd Stepping Motor	(Fig. D40)	Solder × 4 points
			Screw (k) × 2
			2nd Stepping Motor
23	3rd Stepping Motor	(Fig. D41)	Solder × 4 points
			Screw (m) × 3
			Convex × 1
			3rd Stepping Motor
24	4th Stepping Motor	(Fig. D42)	Solder × 4 points
			Screw (n) × 2
			Convex × 2
			4th Stepping Motor

NOTE:
When servicing and reassembling, remove the Card and battery pack from the unit.

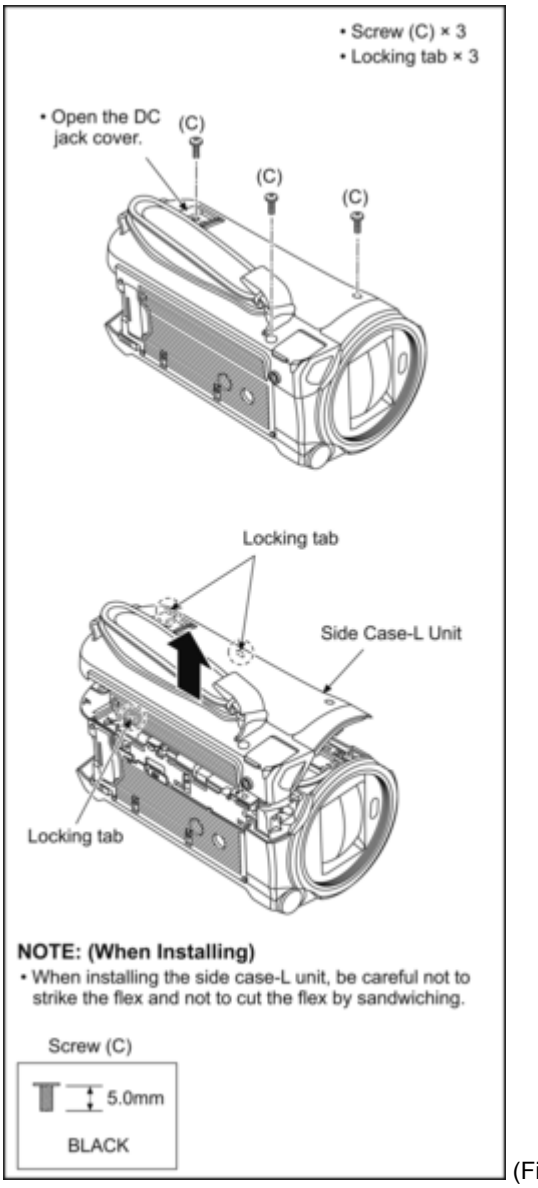
- Card
- Battery Pack



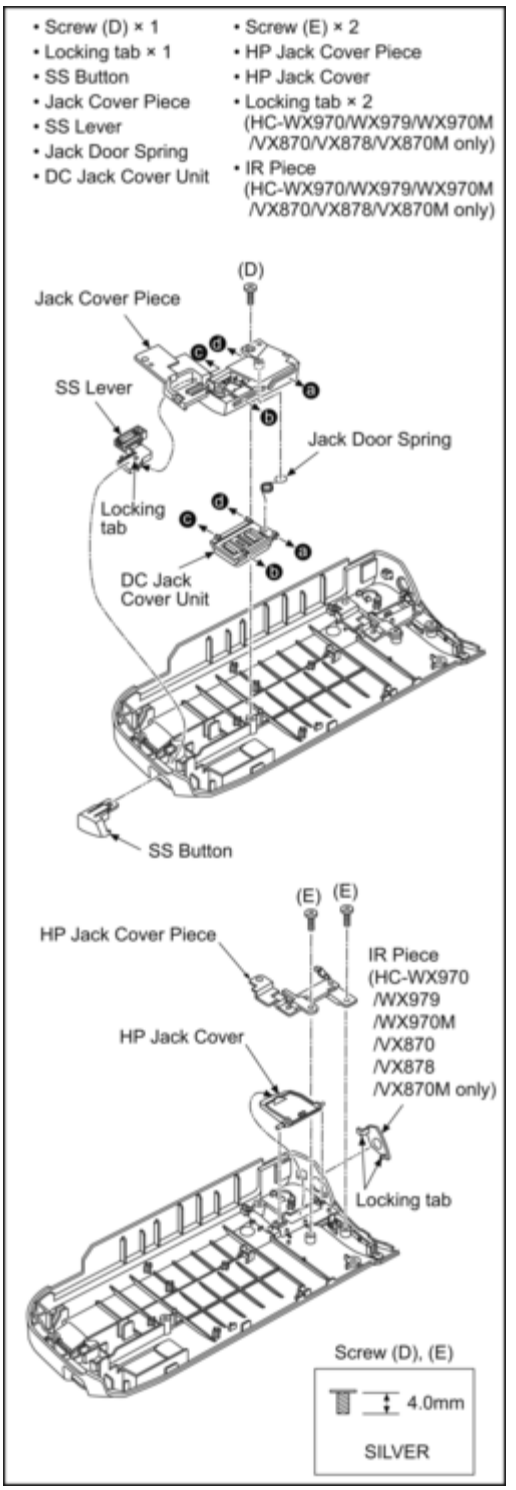
8.3.1 Removal of the Side Case-L Unit



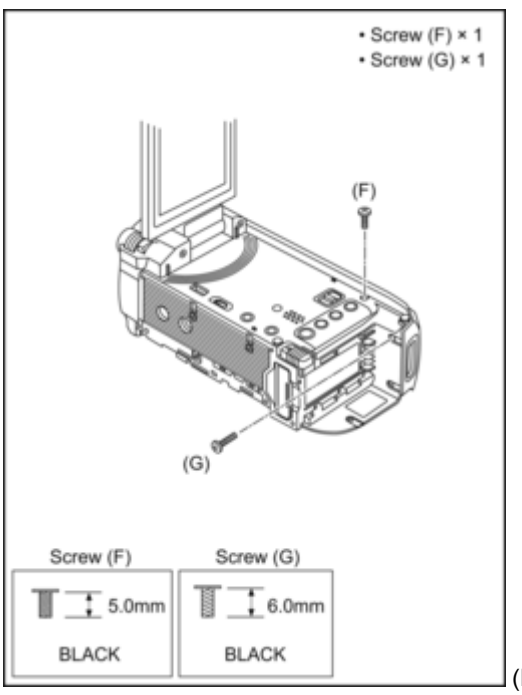
(Fig. D1)



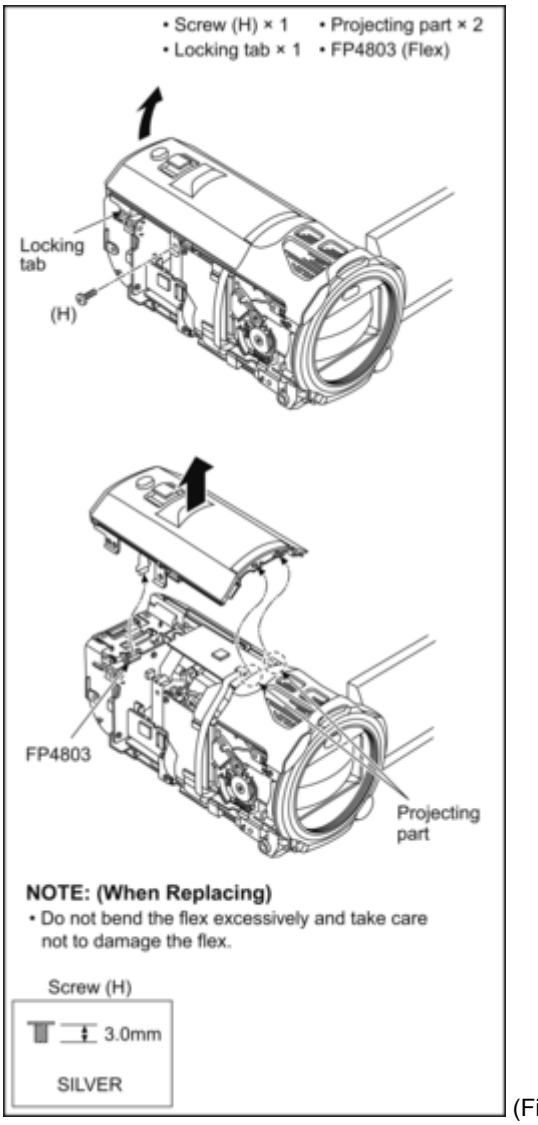
(Fig. D2) (Fig. D3)



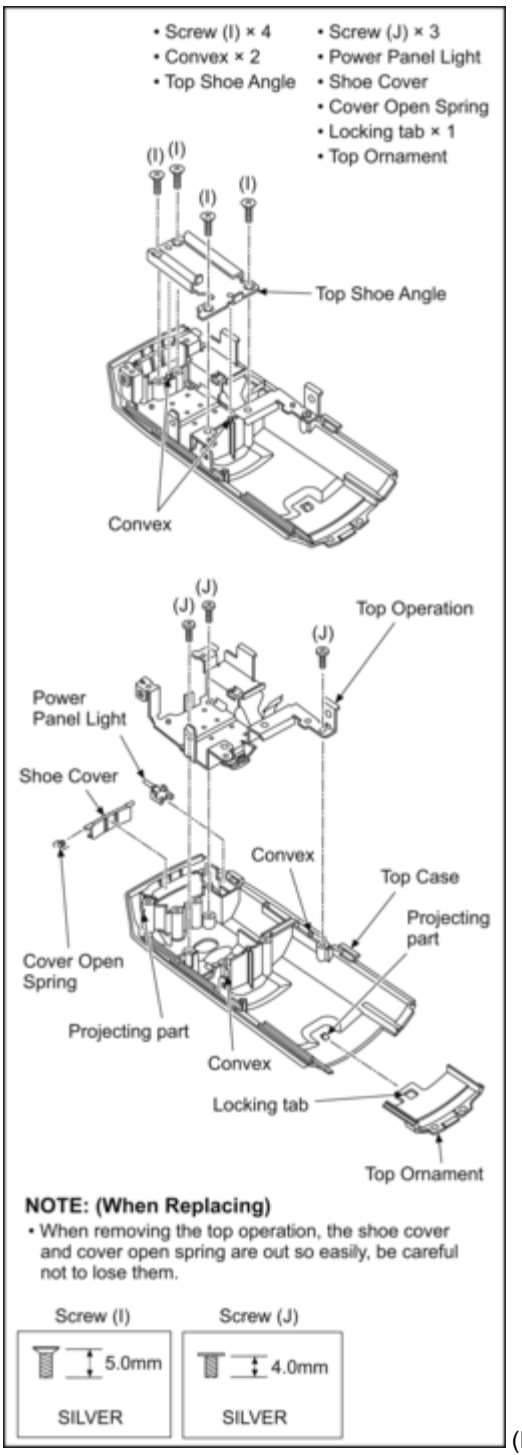
8.3.2 Removal of the Top Case, Top Operation

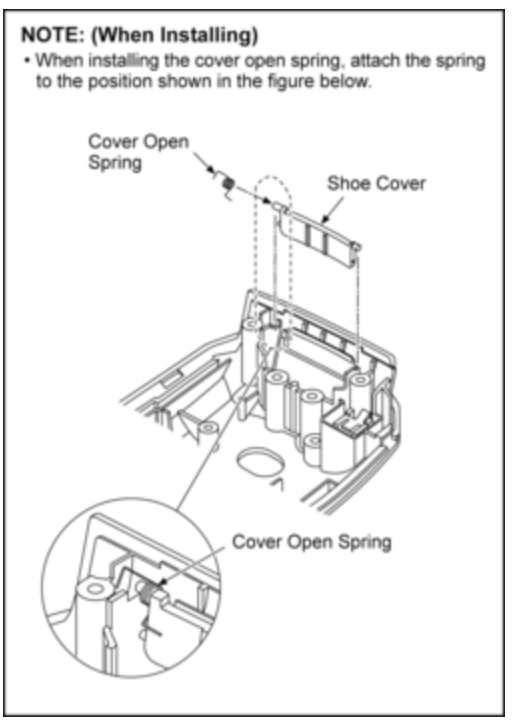


(Fig. D4)



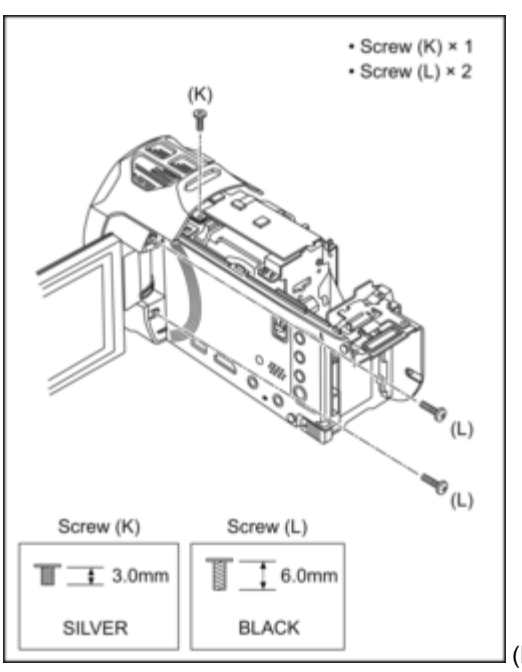
(Fig. D5) (Fig. D6)



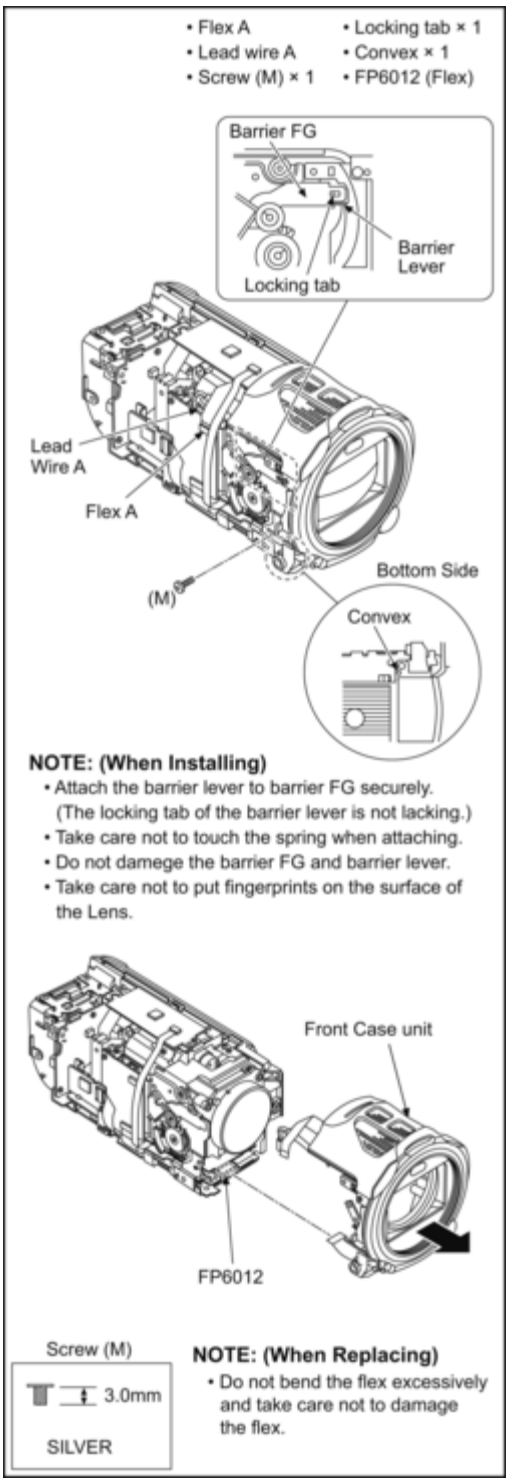


(Fig. D7)

8.3.3 Removal of the Front Case Unit

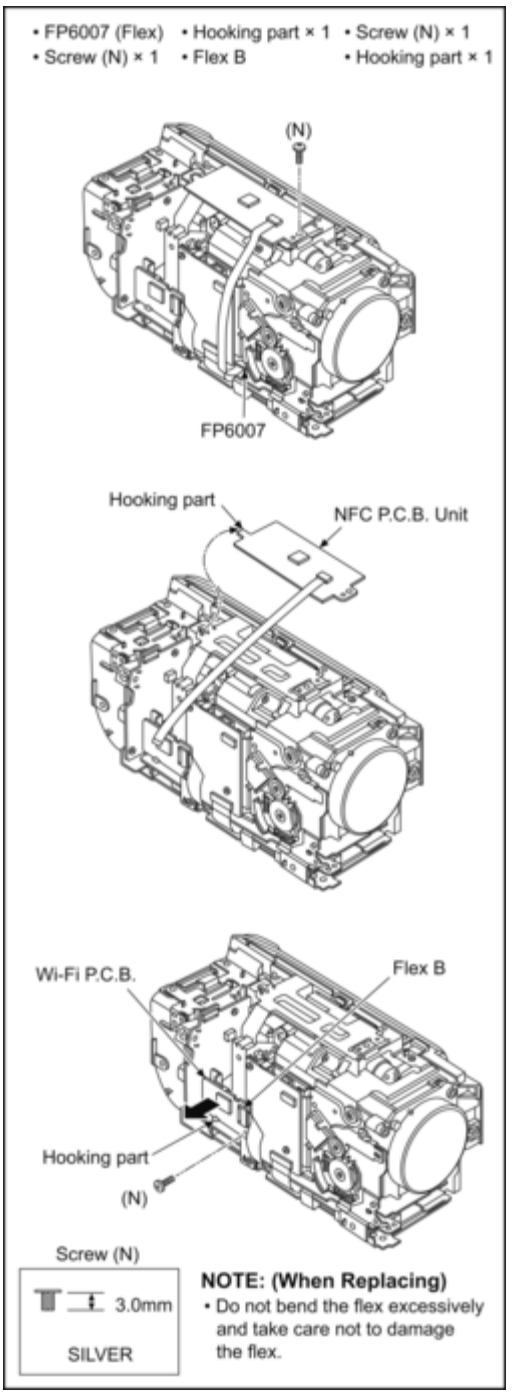


(Fig. D8)



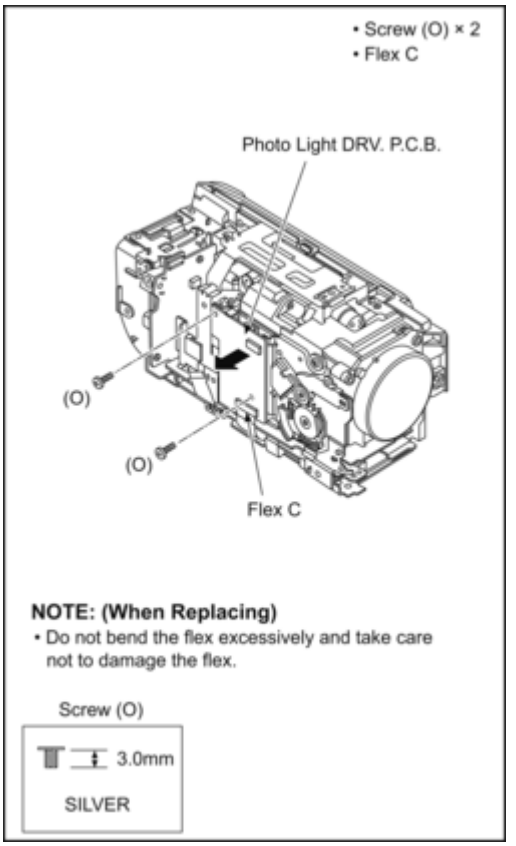
(Fig. D9)

8.3.4 (except HC-V760) Removal of the NFC P.C.B. Unit, Wi-Fi P.C.B.



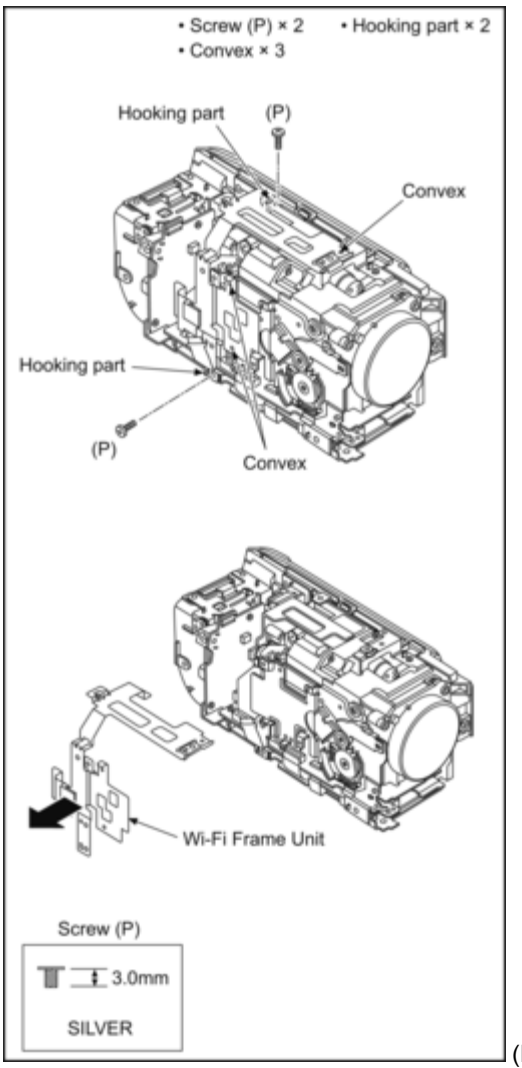
(Fig. D10)

8.3.5 Removal of the Photo Light DRV P.C.B.

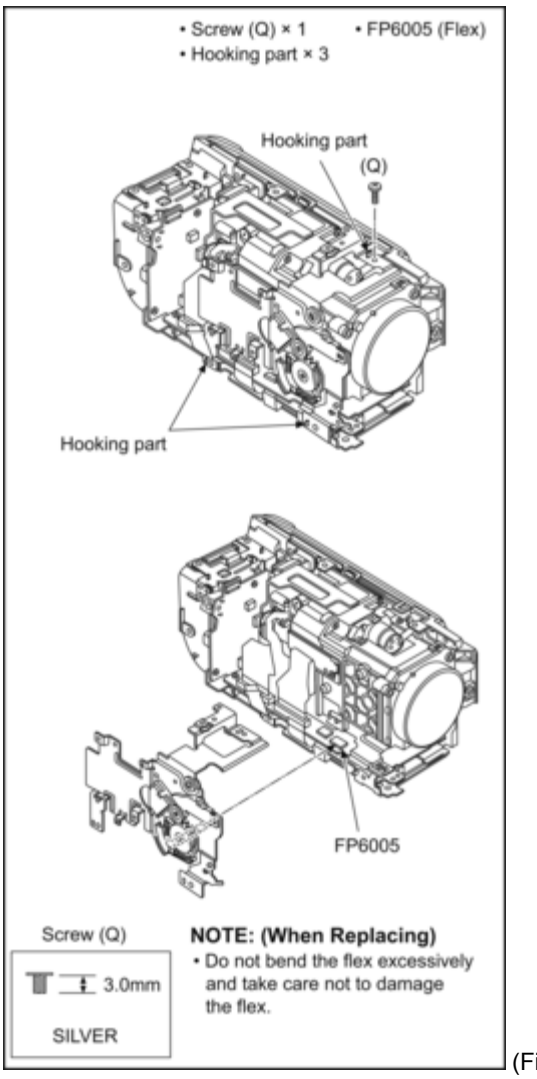


(Fig. D11)

8.3.6 Removal of the Wi-Fi Frame Unit, Lens Frame Unit, Barrier Motor Unit

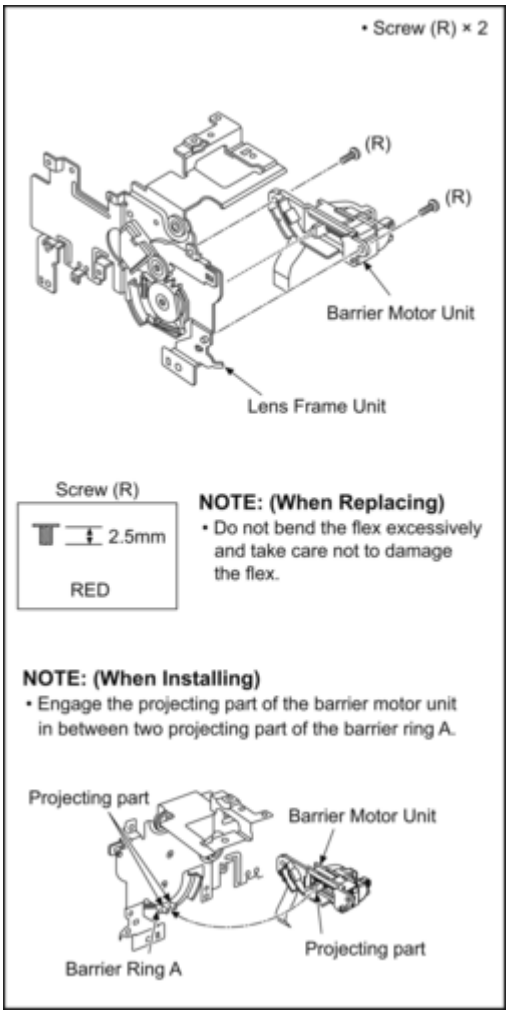


(Fig. D12)

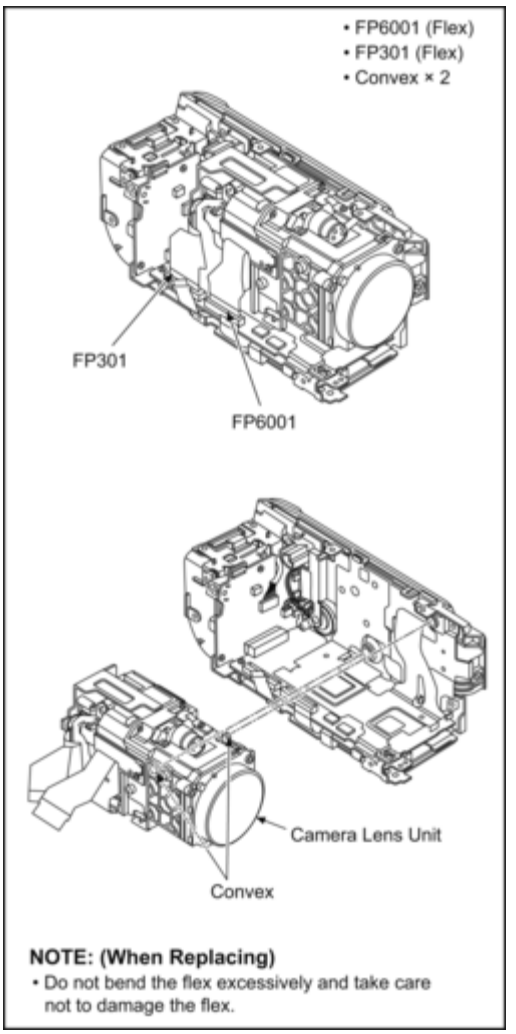


(Fig. D13) (Fig.

D14)

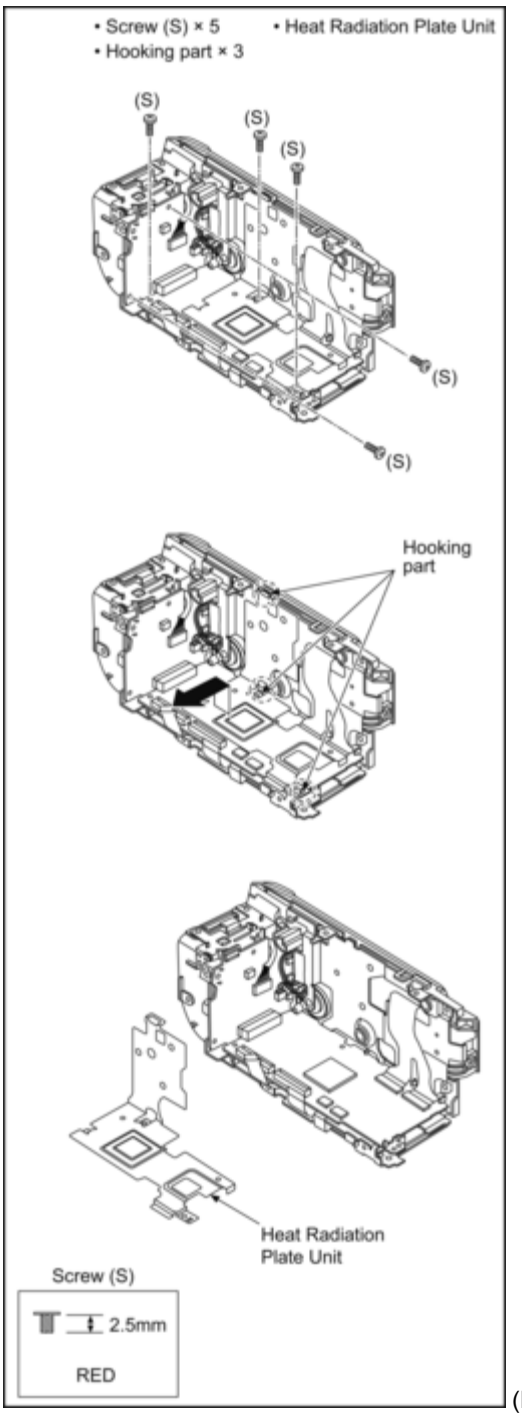


8.3.7 Removal of the Camera Lens Unit

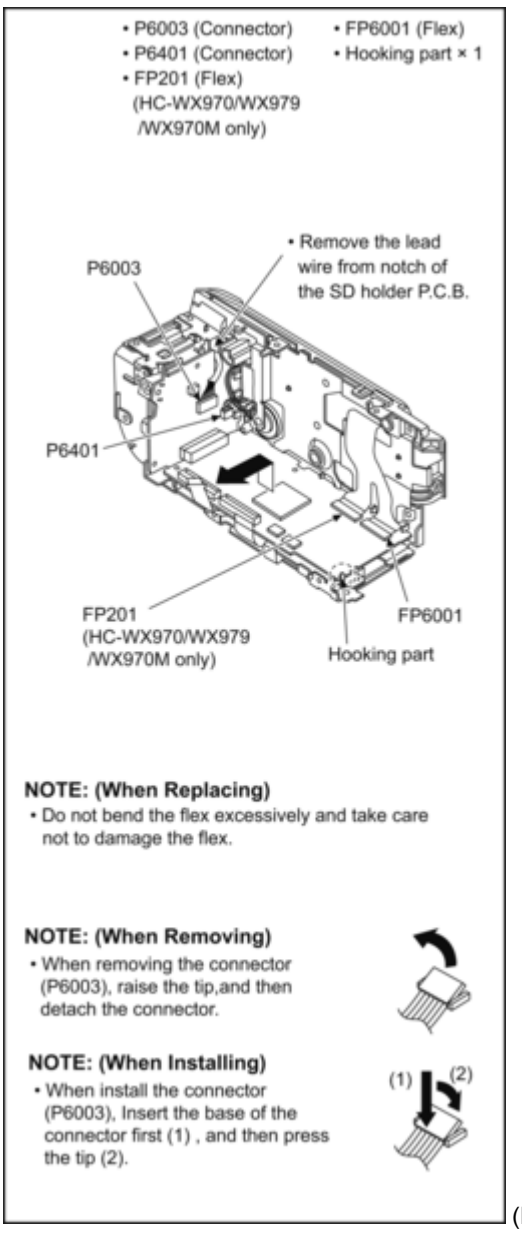


(Fig. D15)

8.3.8 Removal of the Main P.C.B., SD Holder P.C.B.

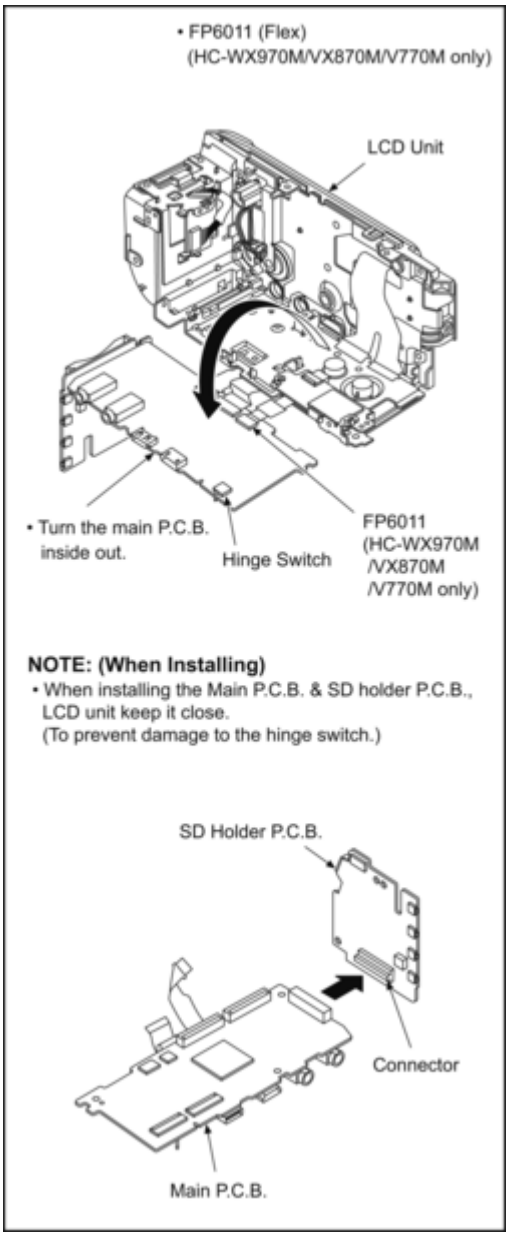


(Fig. D16)

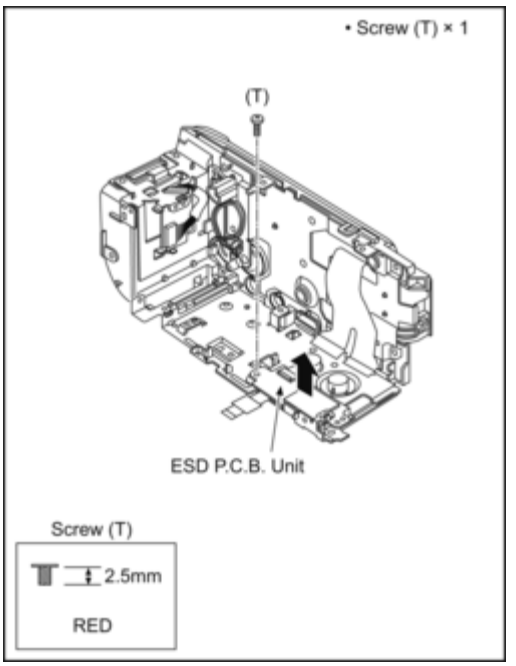


(Fig. D17) (Fig.

D18)

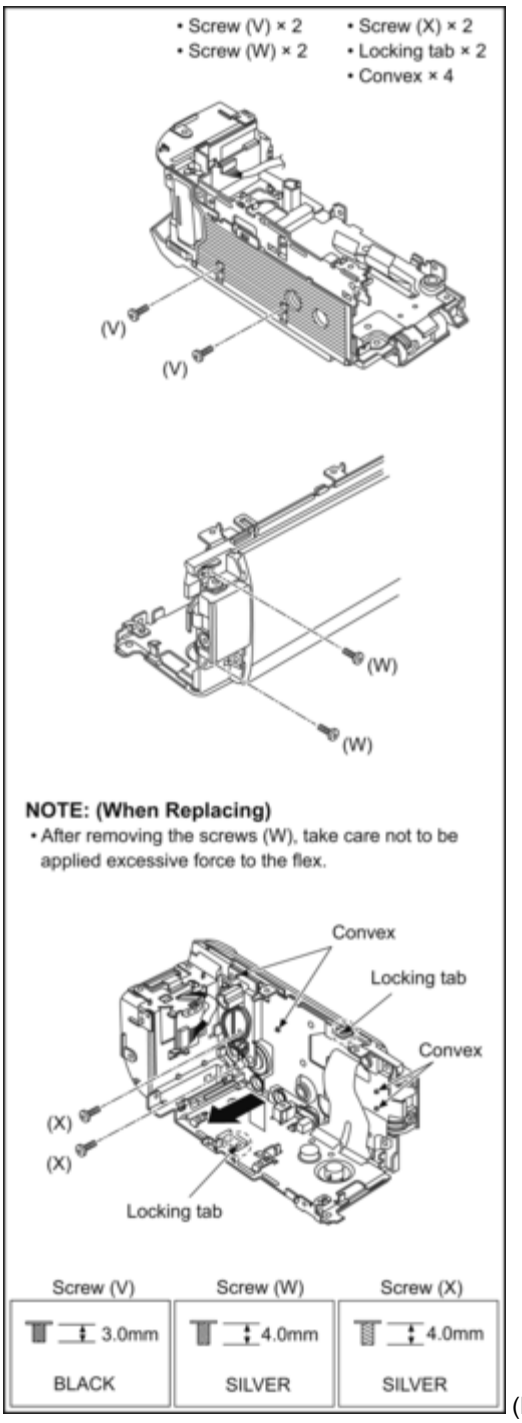


8.3.9 (HC-WX970M/VX870M/V770M only) Removal of the ESD P.C.B. Unit

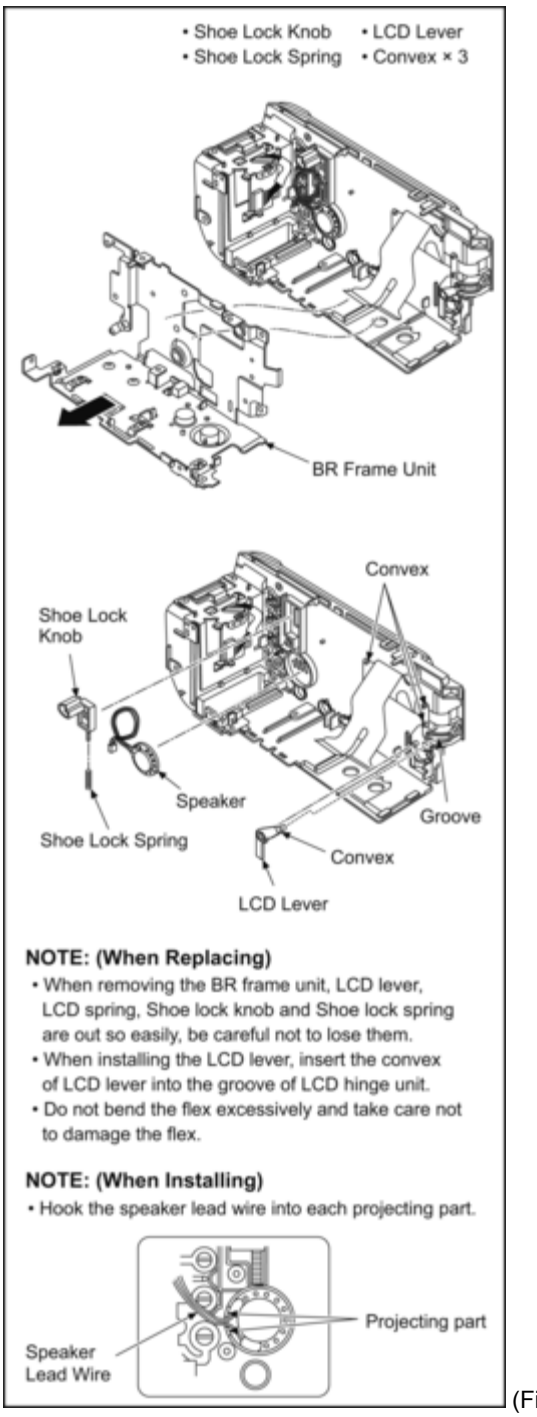


(Fig. D19)

8.3.10 Removal of the BR Frame Unit, Speaker, LCD Unit

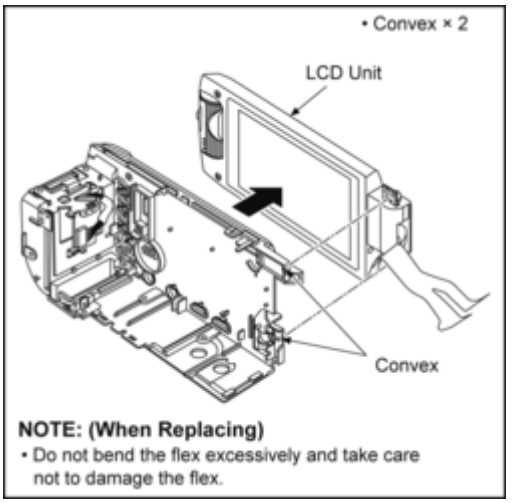


(Fig. D20)



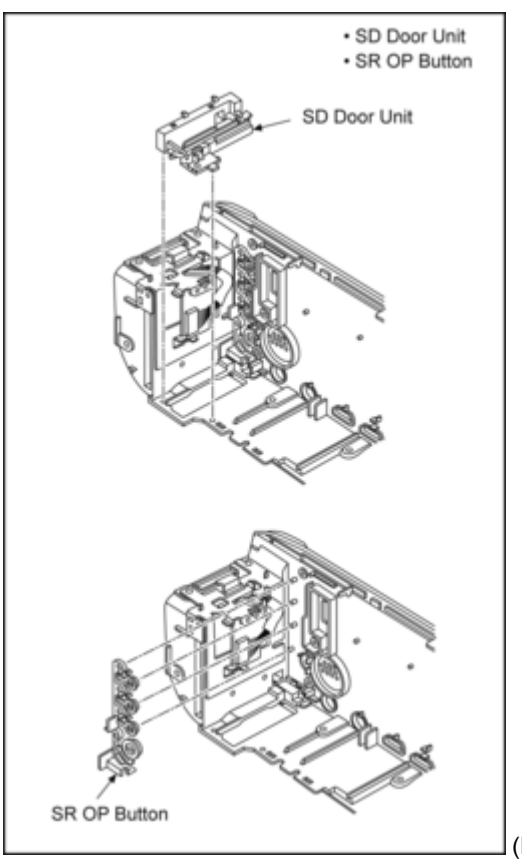
(Fig. D21) (Fig.

D22)

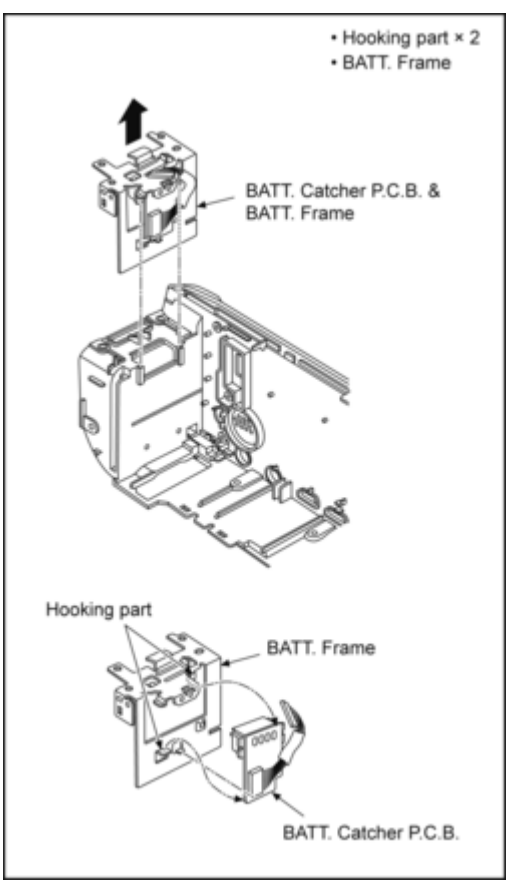


8.3.11 Removal of the Batt. Catcher P.C.B.

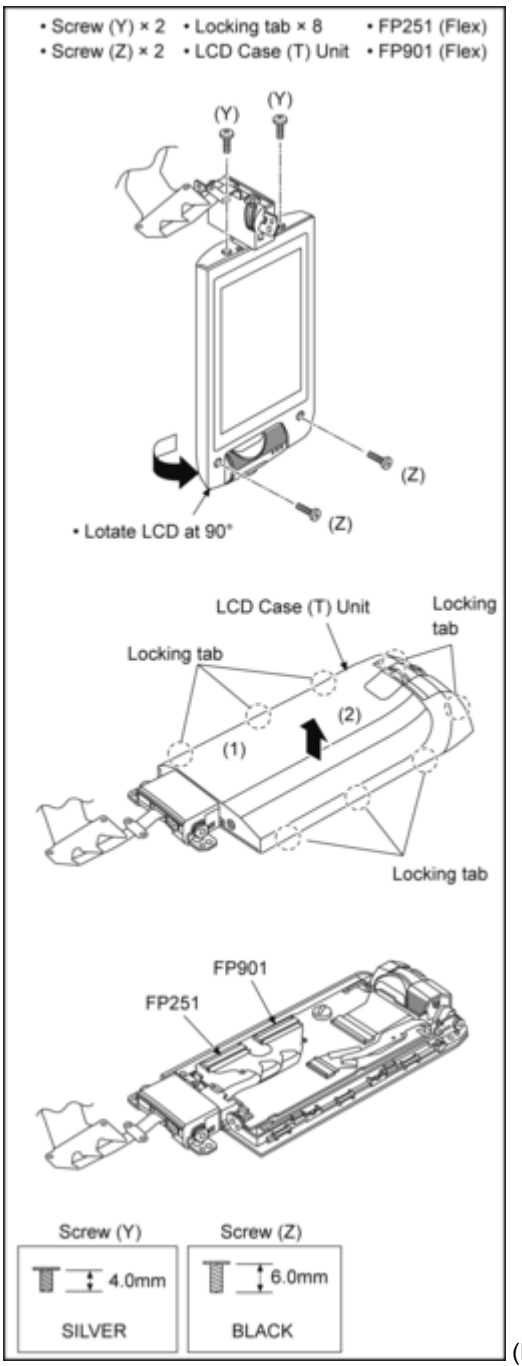
(Fig. D23)



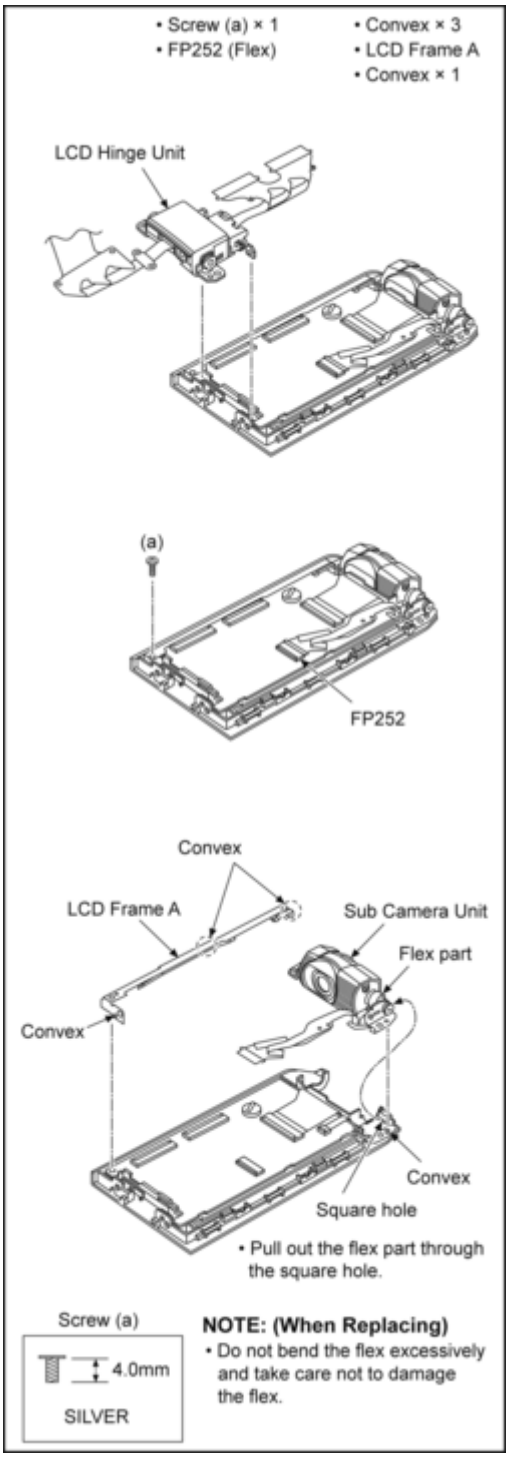
(Fig. D24)



8.3.12 (HC-WX970/WX979/WX970M) Removal of the LCD Hinge Unit, Sub Camera Unit

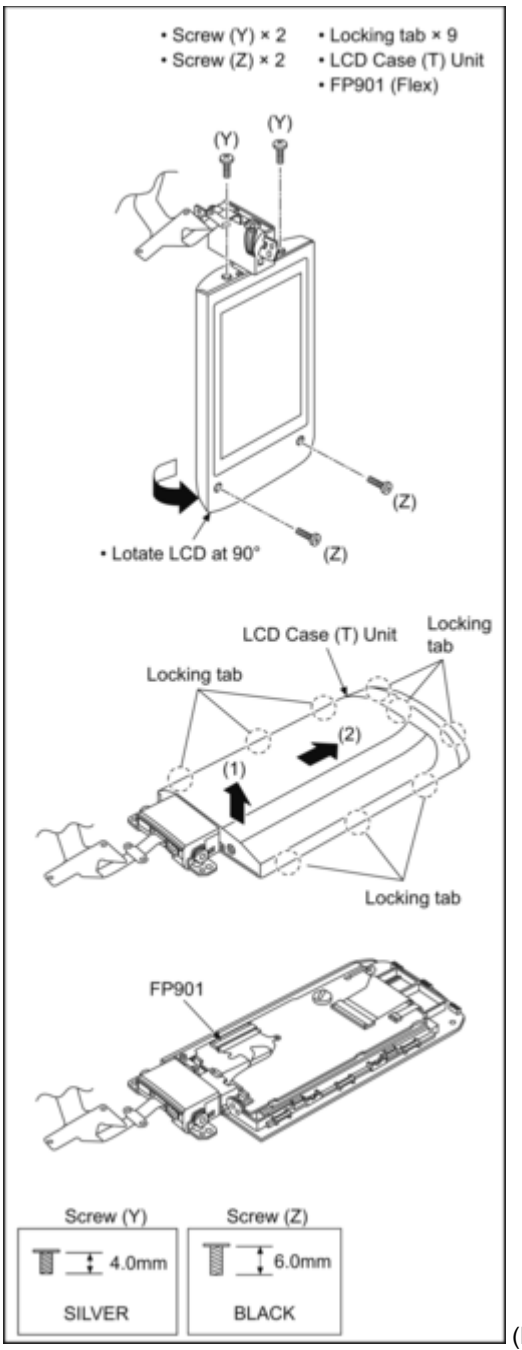


(Fig. D25)

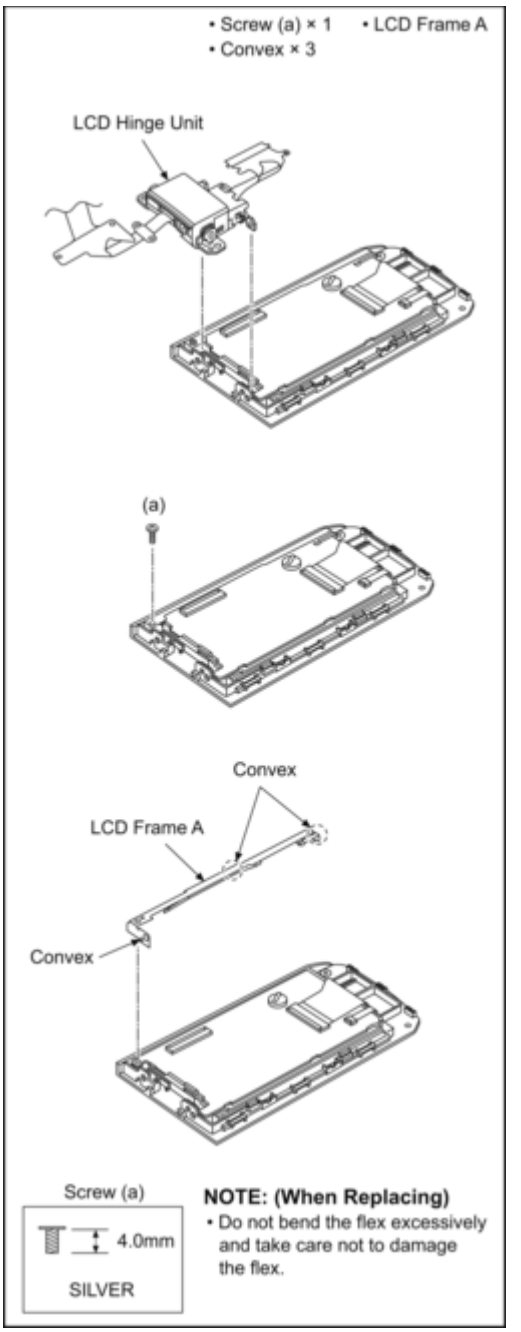


(Fig. D26)

8.3.13 (HC-VX870/VX878/VX870M/V770/V777/V770M/V760) Removal of the LCD Hinge Unit

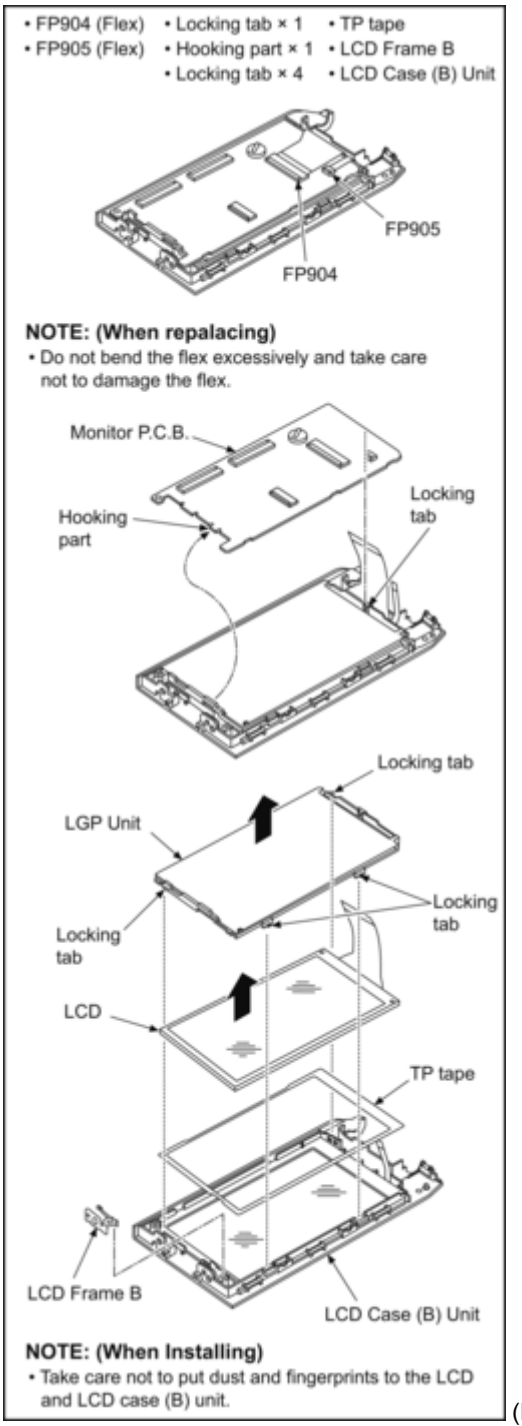


(Fig. D27)

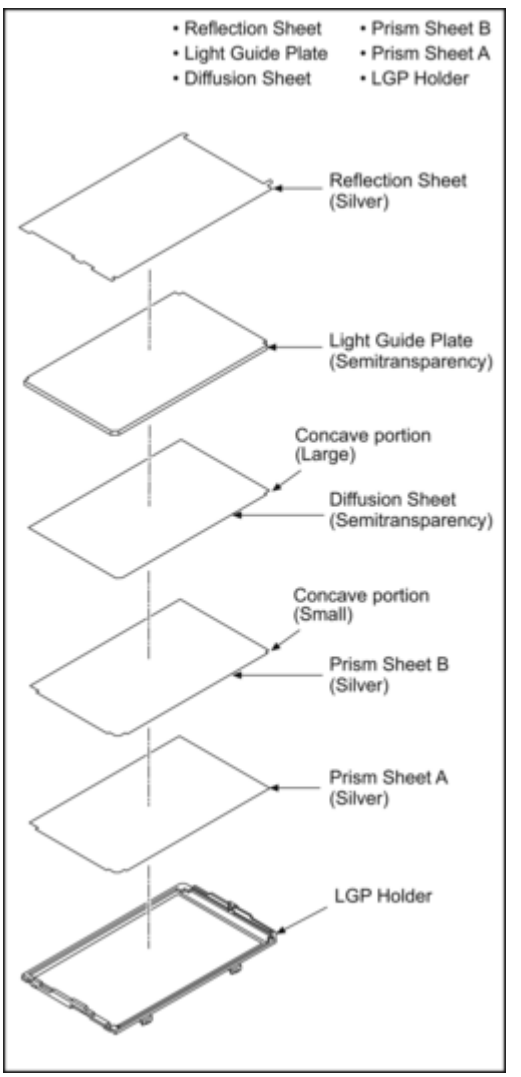


(Fig. D28)

8.3.14 Removal of the Monitor P.C.B., LGP Unit, LCD

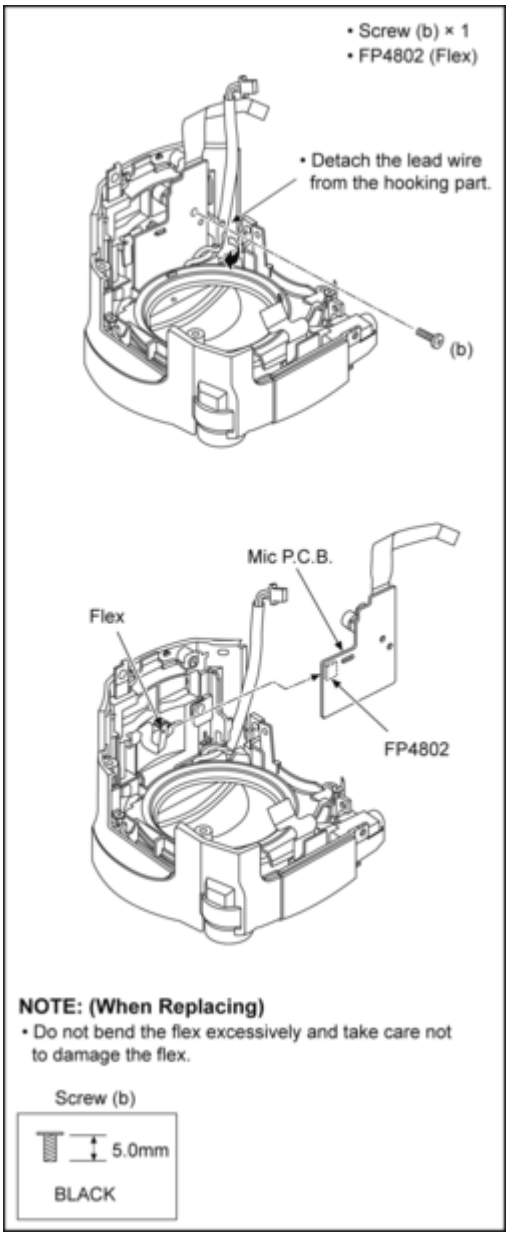


(Fig. D29)



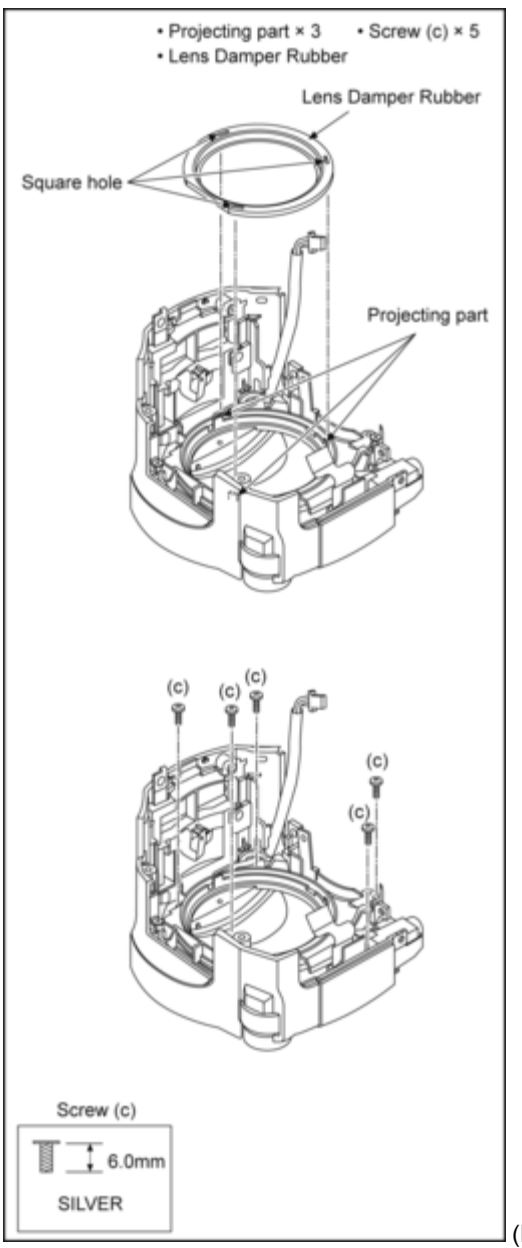
(Fig. D30)

8.3.15 Removal of the Mic P.C.B.

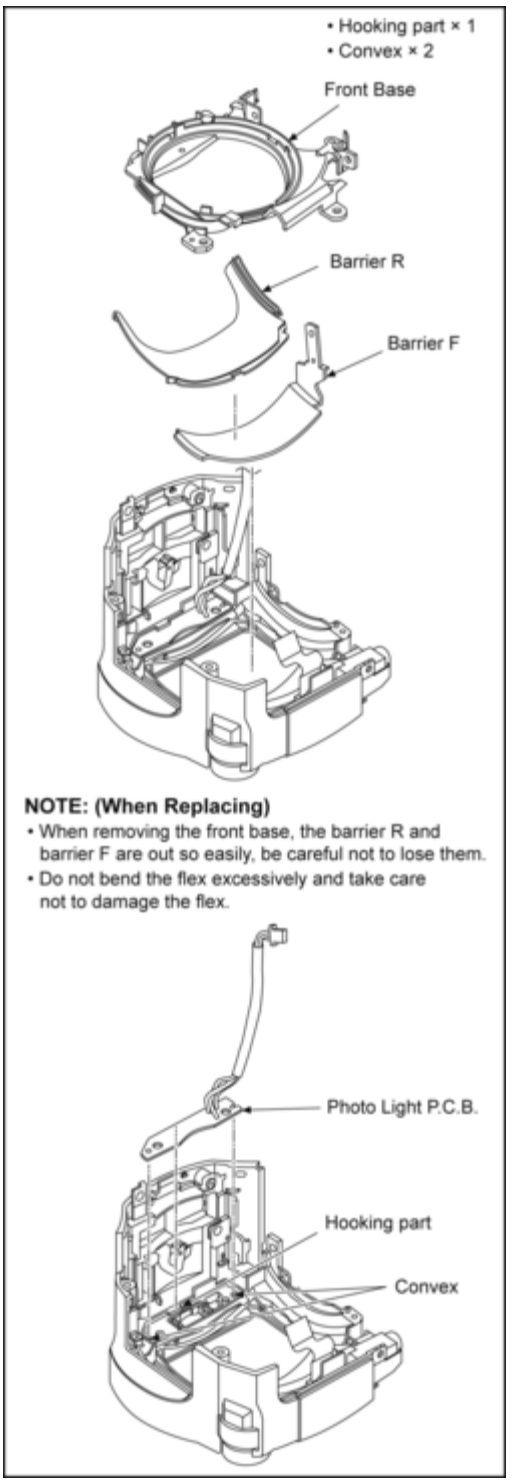


(Fig. D31)

8.3.16 Removal of the Front Base, Barrier R, Barrier F, Photo Light P.C.B.

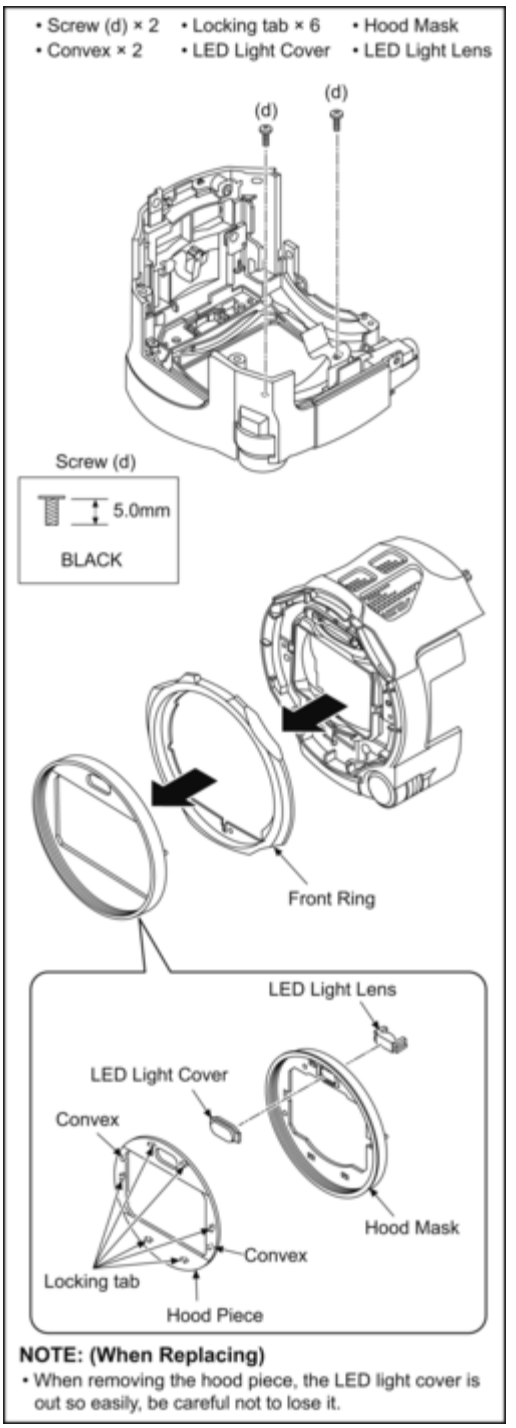


(Fig. D32)



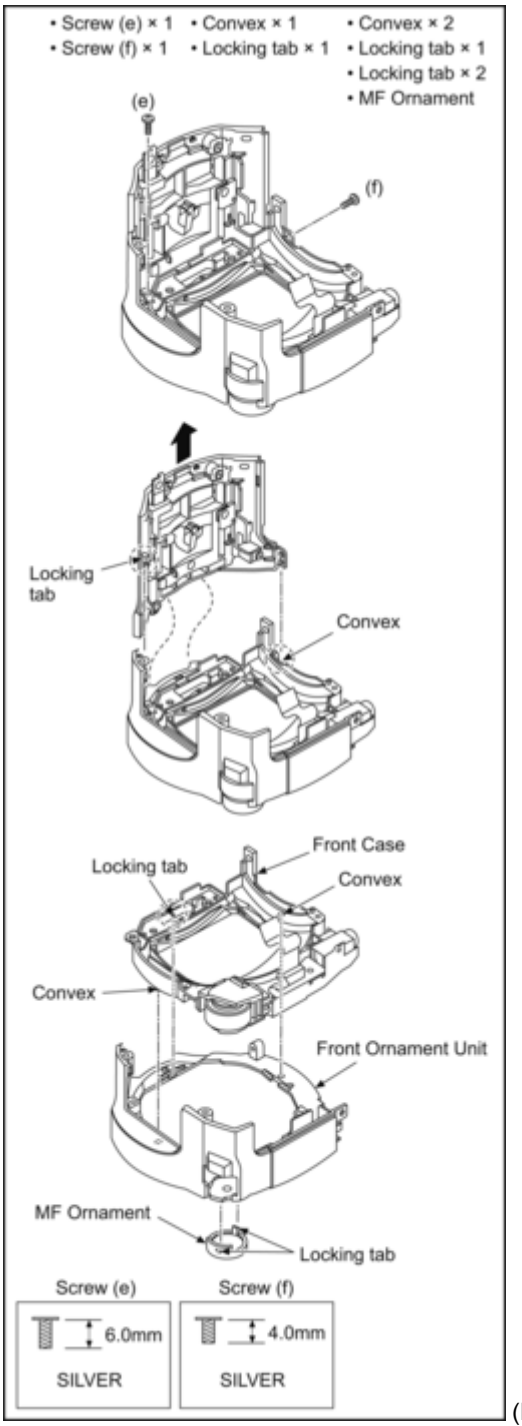
(Fig. D33)

8.3.17 Removal of the Front Ring, Hood Piece

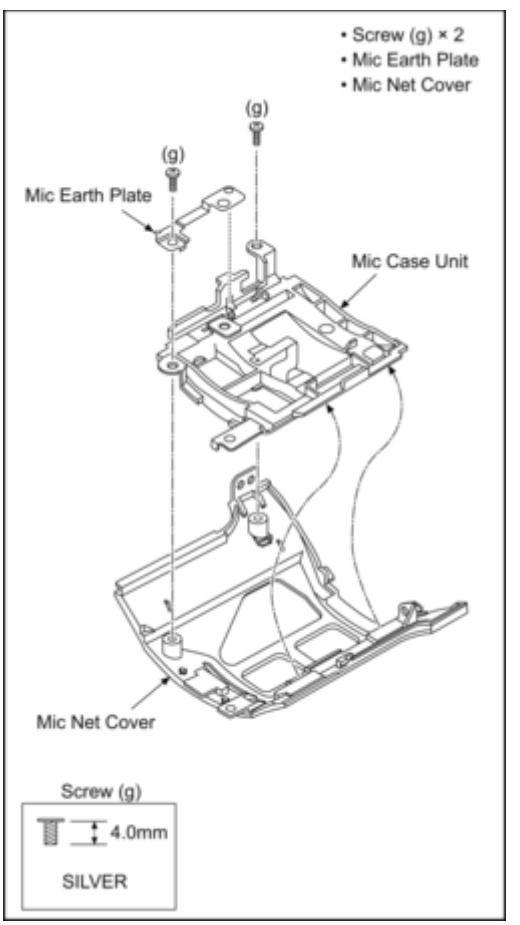


(Fig. D34)

8.3.18 Removal of the Front Case, Front Ornament Unit, Mic Case Unit

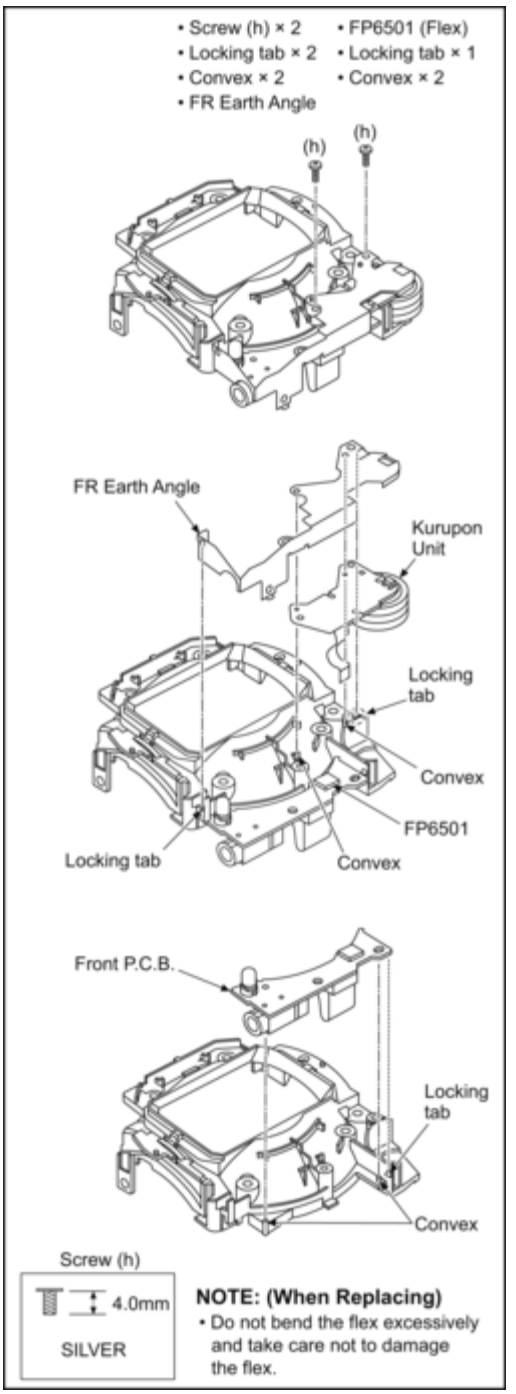


(Fig. D35)



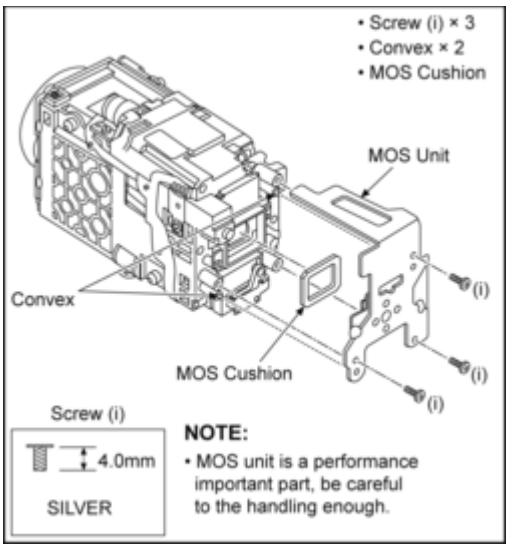
(Fig. D36)

8.3.19 Removal of the Kurupon Unit, Front P.C.B.



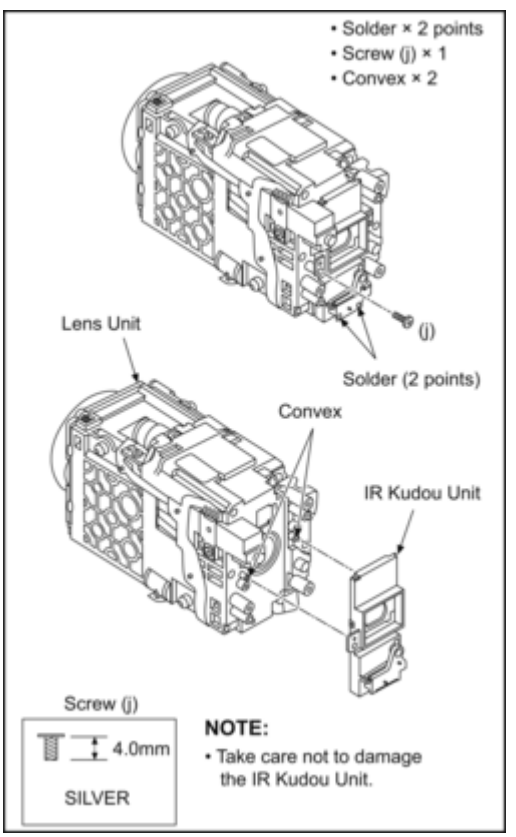
(Fig. D37)

8.3.20 Removal of the MOS Unit



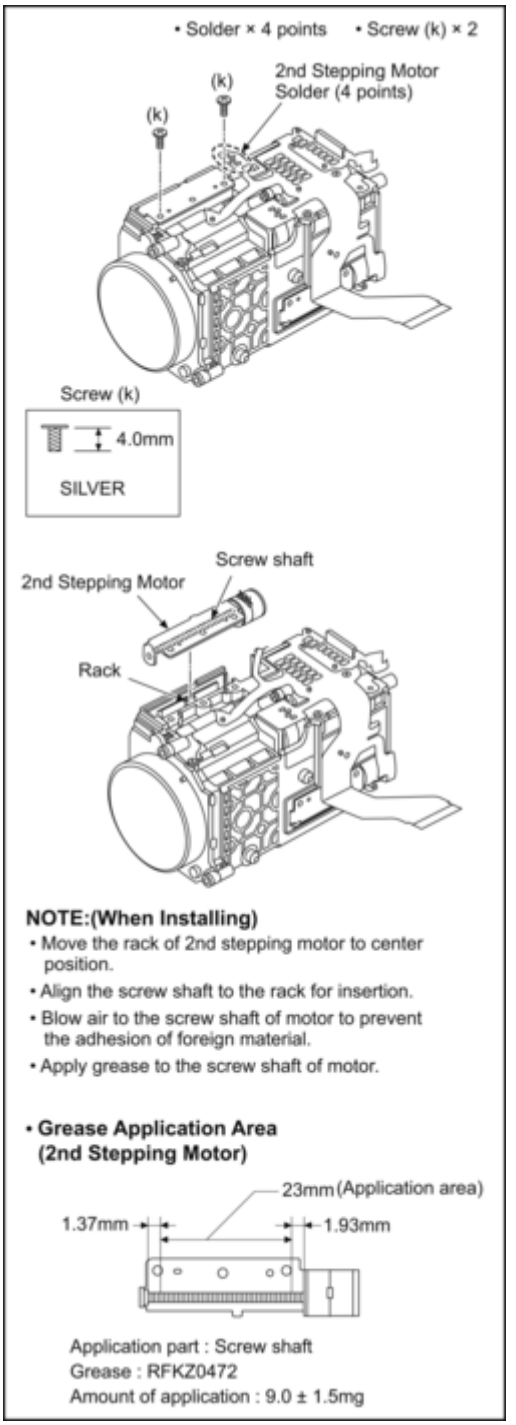
(Fig. D38)

8.3.21 (HC-WX970/WX979/WX970M/VX870/VX878/VX870M only) Removal of the IR Kudou Unit



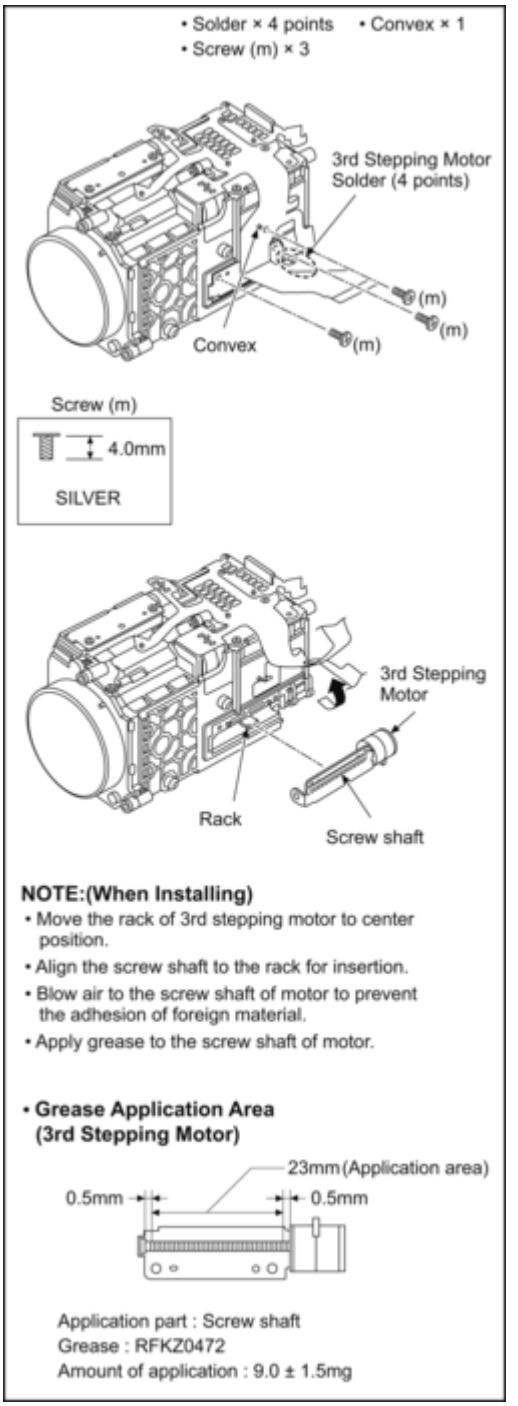
(Fig. D39)

8.3.22 Removal of the 2nd Stepping Motor



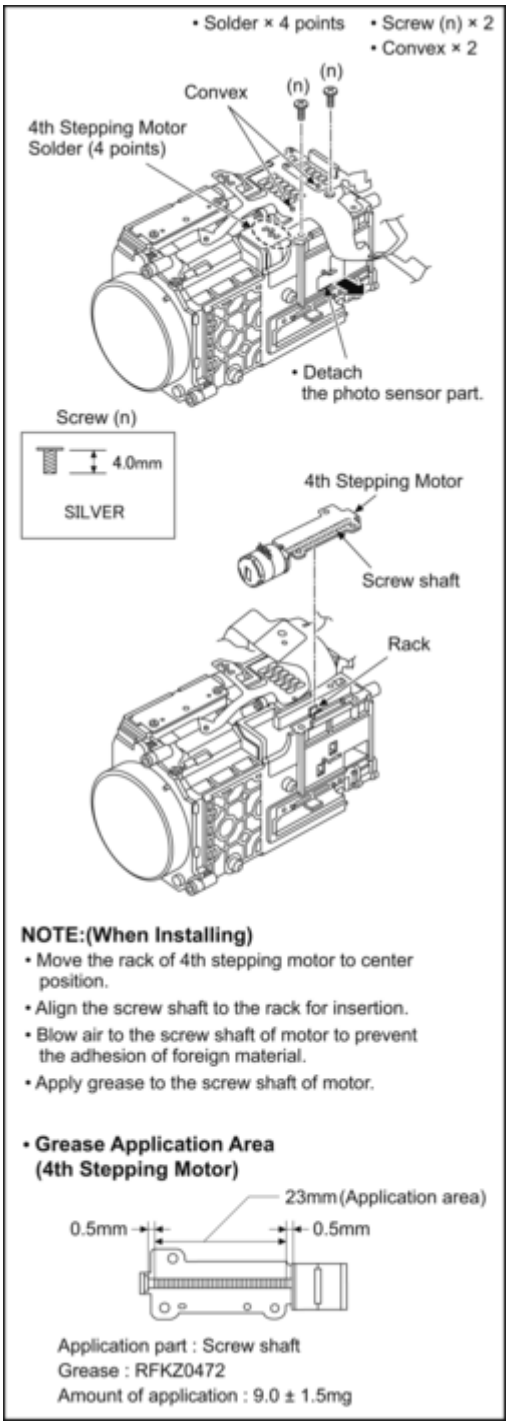
(Fig. D40)

8.3.23 Removal of the 3rd Stepping Motor



(Fig. D41)

8.3.24 Removal of the 4th Stepping Motor


• Solder × 4 points
• Screw (n) × 2
• Convex × 2
Convex
(n)
(n)
4th Stepping Motor
Solder (4 points)
• Detach
the photo sensor part.
Screw (n)
4.0mm
SILVER
4th Stepping Motor
Screw shaft
Rack
NOTE:(When Installing)
• Move the rack of 4th stepping motor to center position.
• Align the screw shaft to the rack for insertion.
• Blow air to the screw shaft of motor to prevent the adhesion of foreign material.
• Apply grease to the screw shaft of motor.
• Grease Application Area
(4th Stepping Motor)
23mm (Application area)
0.5mm
0.5mm
Application part : Screw shaft
Grease : RFKZ0472
Amount of application : 9.0 ± 1.5mg

(Fig. D42)

9 Measurements and Adjustments

9.1 Electric Adjustment

- An exclusive jig are necessary for electric adjustment.
- Connection method of the main unit and an exclusive adjustment jig as follows.

Figure of connection

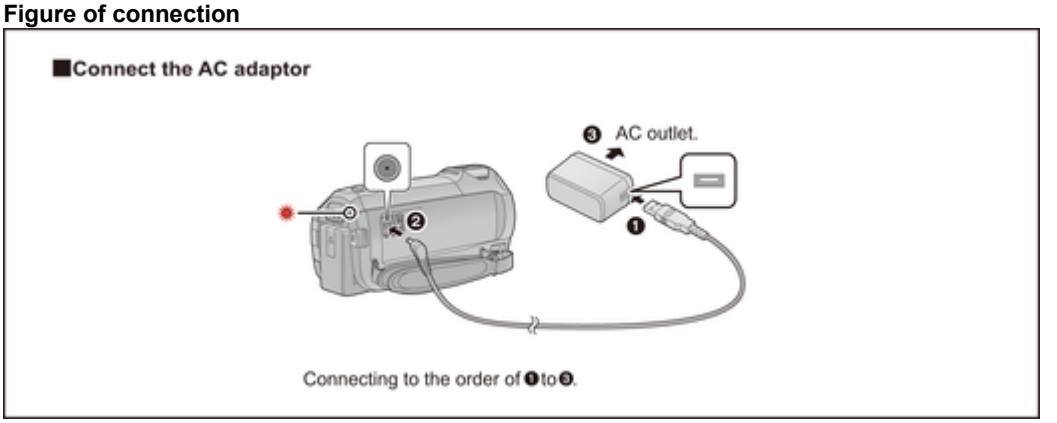
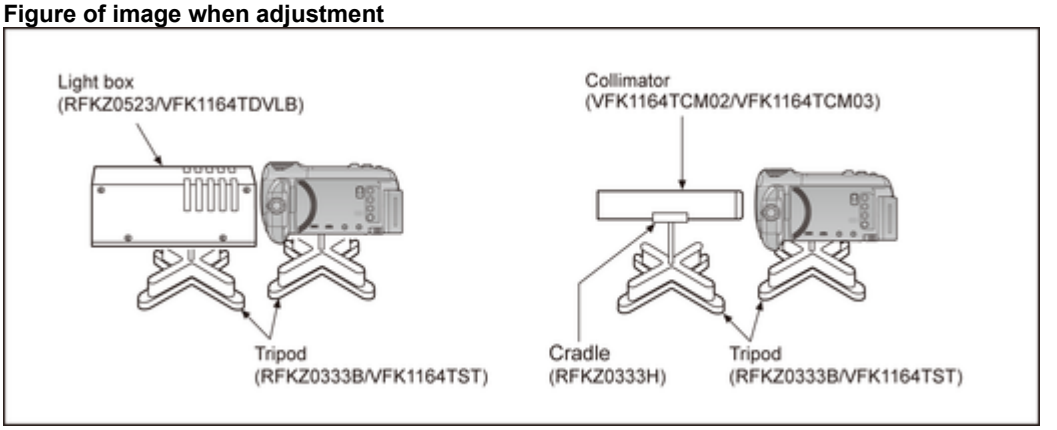


Figure of image when adjustment



Part Number of jig

1. Basic Jig

Item	Contents
AC adaptor	Bandled with camcorder
DC Cable	Bandled with camcorder

2. Optical Jig for Camera Adjustment

Item		Part number	Remarks
Light box		VFK1164TDVLB/RFKZ0523*	Need external power supply: 12V ± 0.1V /1.8A or over
Collimator with focus chart		VFK1164TCM02/VFK1164TCM03	Same as DSC
CC filter	3100K/5100K	VFK1164CC10G	Need 2 set. For indoor/outdoor white balance adjutment
C2 Filter	5100K	VFK1164LBB2	For outdoor white balance adjustment
C8 Filter	5100K	VFK1164LBB8	For outdoor white balance adjustment

ND Filter 0.1	3100K	VFK1164ND01	For indoor white balance adjustment
ND Filter 0.6	3100K	VFK1164ND06	For indoor white balance adjustment
Adjustment chart for Level Shot		Bandled with this Manual	For Level shot adjustment

* RFKZ0523 (same as DSC) is recommended.

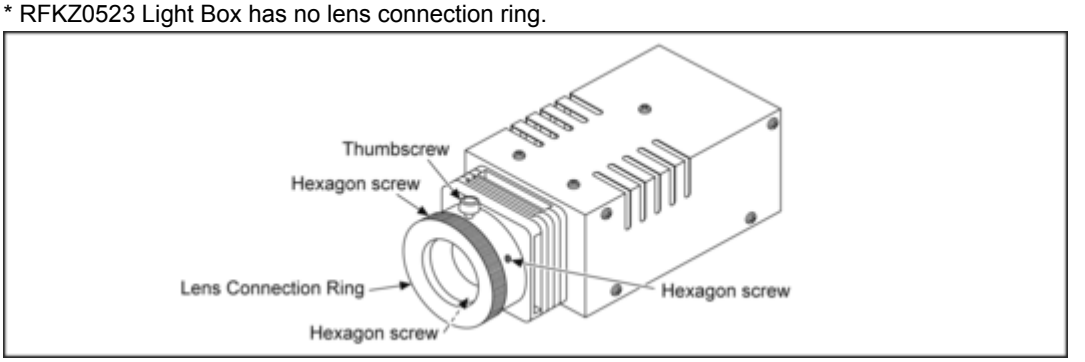
[Level Shot Adjutment Chart]

9.1.1 About Light Box

When using VFK1164TDVLB Light Box

If using VFK1164TDVLB Light Box, remove the lens connection ring by loosing thumbscrew and three hexagon screws.

* RFKZ0523 Light Box has no lens connection ring.

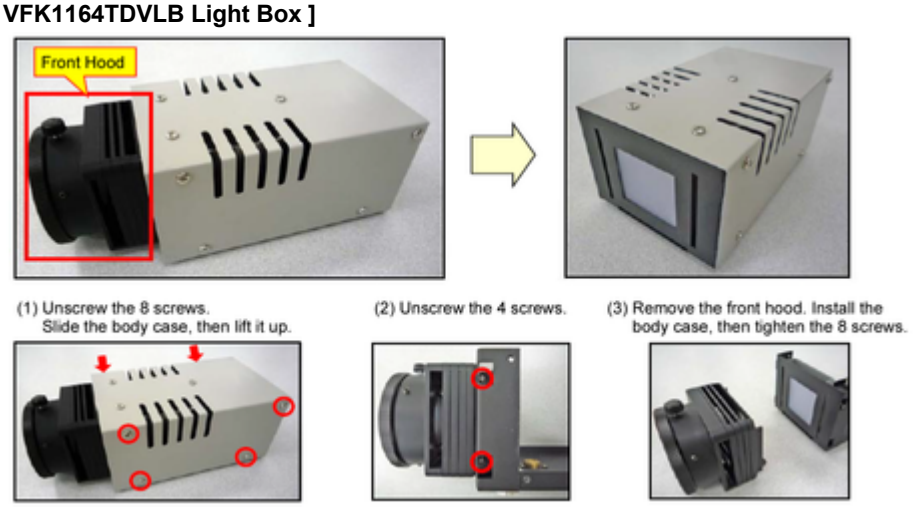


How to remove the Front Hood

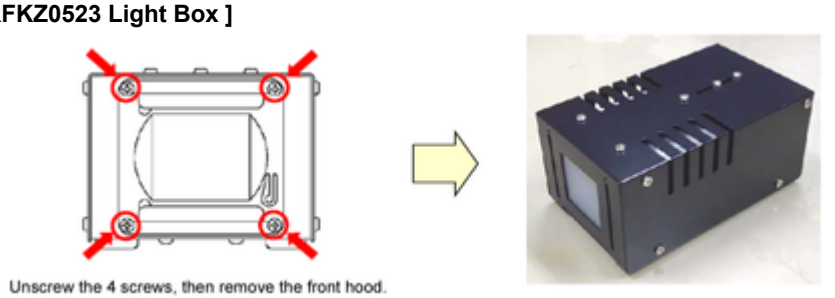
In order to utilize maximum of the diffusing surface of light box, some adjustment items need the distance between diffusing surface of light box and camera body becomes several cent-meters.

Before the adjustments, remove the front hood of light box following steps below.

[For VFK1164TDVLB Light Box]



[For RFKZ0523 Light Box]



9.1.2 Adjustment Items

Adjustment item as follows.

Replacement part \ Adjustment item			Adjustments						Settings		
			Camera Adjustments *1	Zoom Tracking Adjustment	Indoor White Balance Adjustment	Outdoor White Balance Adjustment	Level Shot adjustment *2	Touch Panel Calibration	Model setting	Factory settings	NFC initialization *4
MAIN P.C.B.			○	○	○	○	○	–	○	○	○
	IC701	LENS DRIVE IC	○	○	–	–	○	–	–	–	–
	IC751	ROLL GYRO	○	–	–	–	○	–	–	–	–
	IC1001	7CH DC/DC IC	○	○	○	○	○	–	–	–	–
	IC1421	REG 3V I/O	○	○	○	○	○	–	–	–	–
	IC3401	VENUS ENGINE	–	–	–	–	○	–	–	–	–
	IC3404	FLASH ROM	○	○	○	○	○	–	○	○	○
SD HOLDER P.C.B.			○	–	–	–	○	–	–	–	–
	IC6401	PIT/YAW GYRO	○	–	–	–	○	–	–	–	–
	IC6411	ACCELEROMETER	–	–	–	–	○	–	–	–	–
ESD P.C.B. *3			–	–	–	–	○	–	–	–	–
Wi-Fi P.C.B. *4			–	–	–	–	○	–	–	○	○
NFC P.C.B. UNIT *4			–	–	–	–	○	–	–	○	○
LENS UNIT			○	○	○	○	○	–	–	–	–
MOS UNIT			○	○	○	○	○	–	–	–	–
LCD CASE (B) UNIT			–	–	–	–	○	○	–	–	–

*1…IRIS adjustment, OIS hall amp adjustment, Missing pixels compensation, OIS gyro adjustment, AGS adjustment .
*2…Accelerometer : Since the assembly is accompanied, always need to be adjusted.
*3…HC-WX970M/VX870M/V770M only
*4…except HC-V760

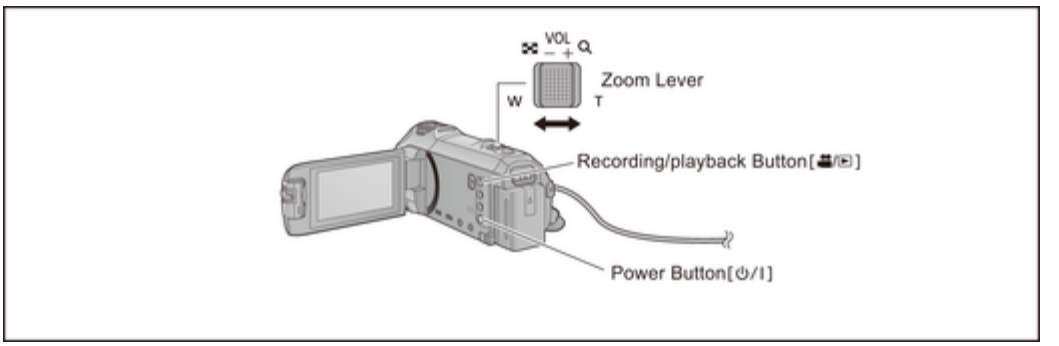
9.1.3 Adjustment Procedure

All adjustments except “Touch Panel Calibration”, “Factory Setting” and “NFC Initialization” performs using “14 Adjustment function for the service” in service mode menu.

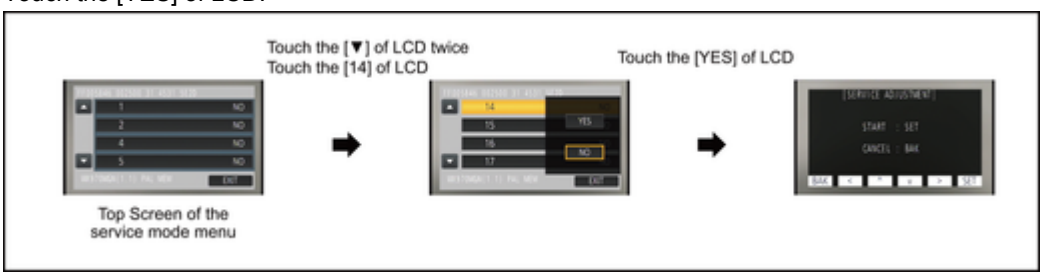
“Touch Panel Calibration” is performed using 16 of service mode menu and “Factory Setting” is performed using 1, “NFC Initialization” is performed using 17 of service mode menu. Refer to “6 Service mode” and “10 Factory Setting”.

[Execute adjustment function for service]

1. While the power is turned OFF, keep pressing the “Power” button, “Zoom Lever” to W side and “Recording/Playback” button
   for more than 3 seconds until the top screen of the Service Mode Menu being displayed.

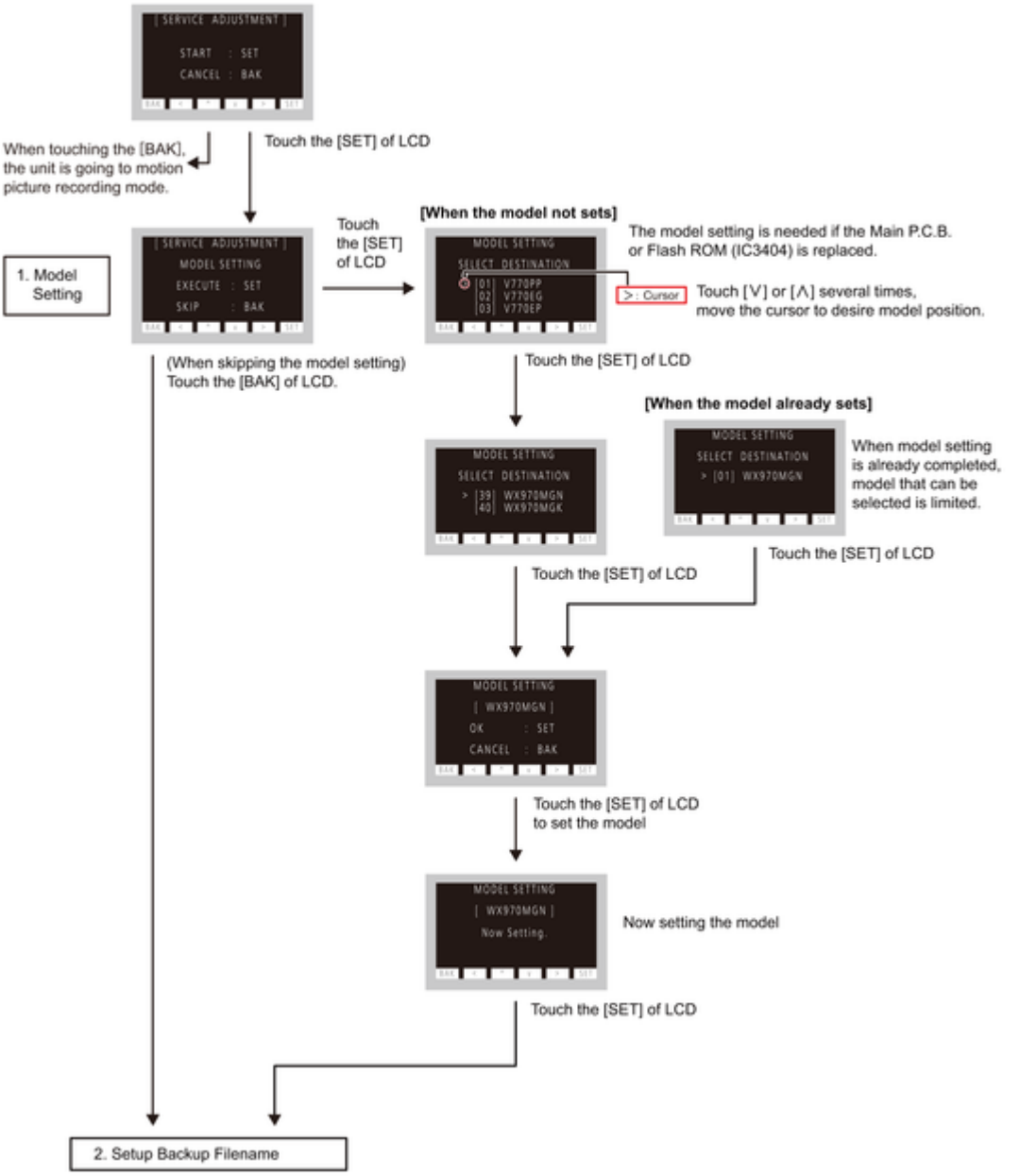


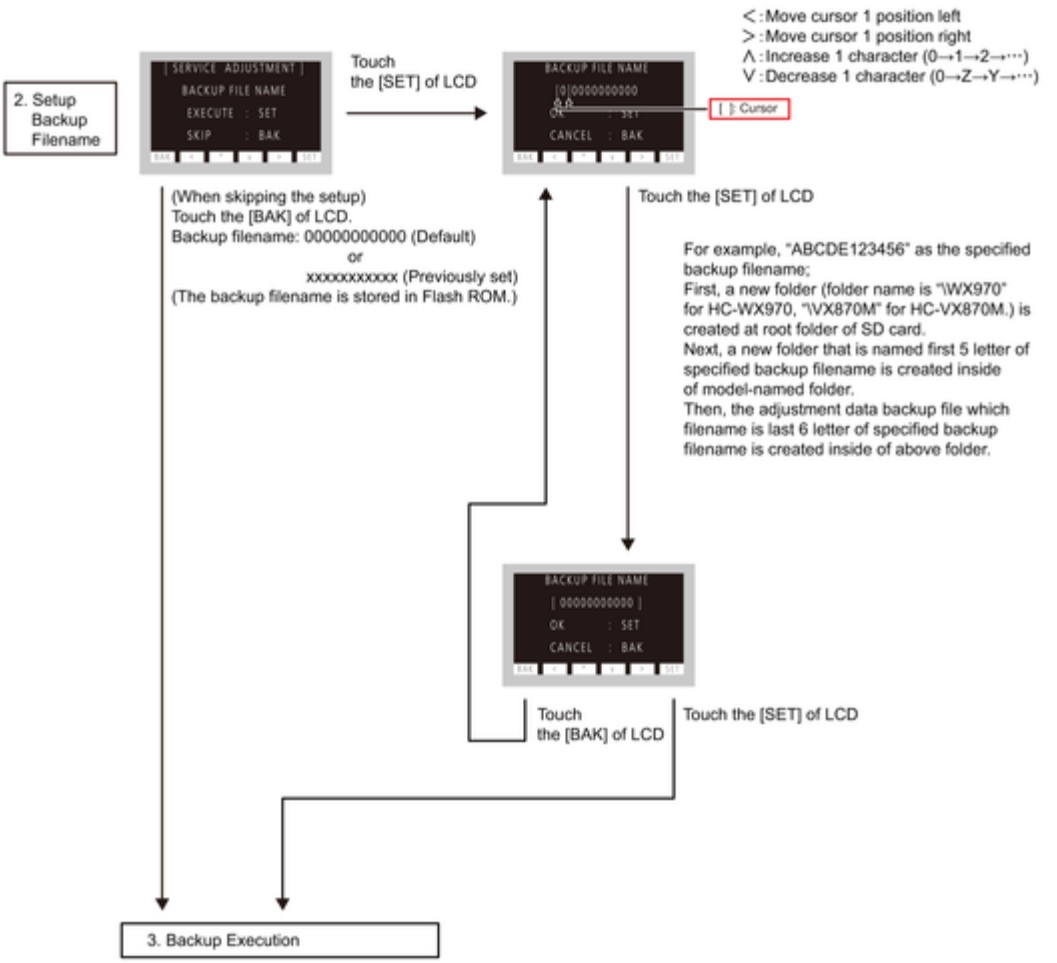
2. Touch the ▼ twice then touch the [14] of LCD.
3. Touch the [YES] of LCD.

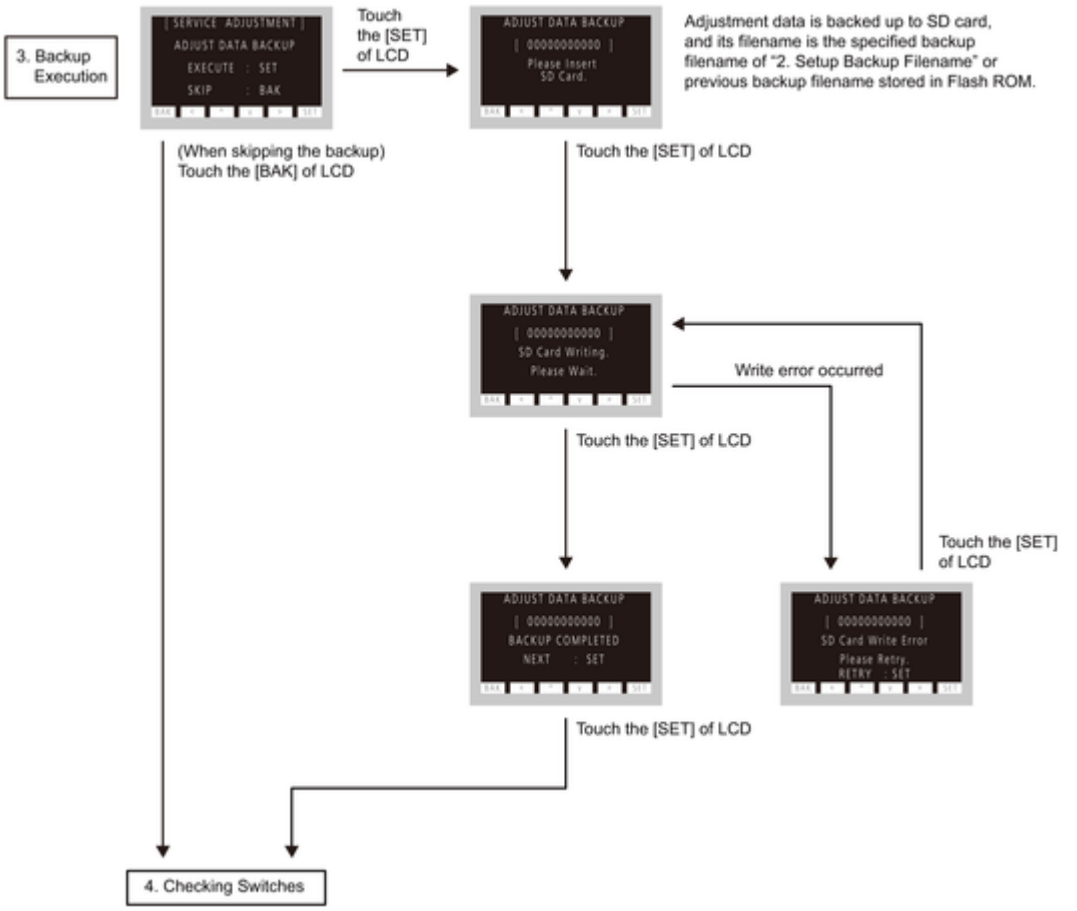


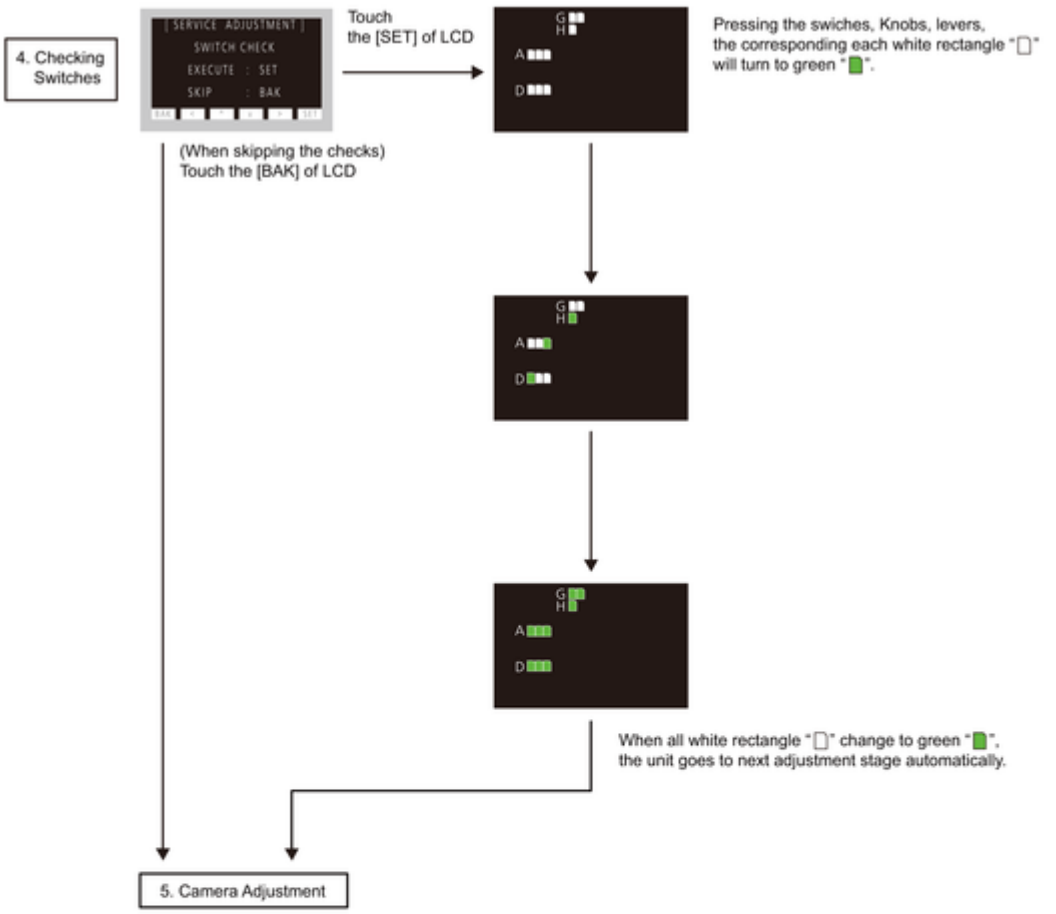
[Adjustment Procedure]
Adjustments and settings are performed following order:

1. Model setting
2. Filename setting for backup to SD card
3. Backing up adjustment data to SD card
4. Checking switches
5. Camera adjustment
6. Zoom/tracking adjustment
7. Indoor white balance adjustment
8. Outdoor white balance adjustment
9. Level shot adjustment

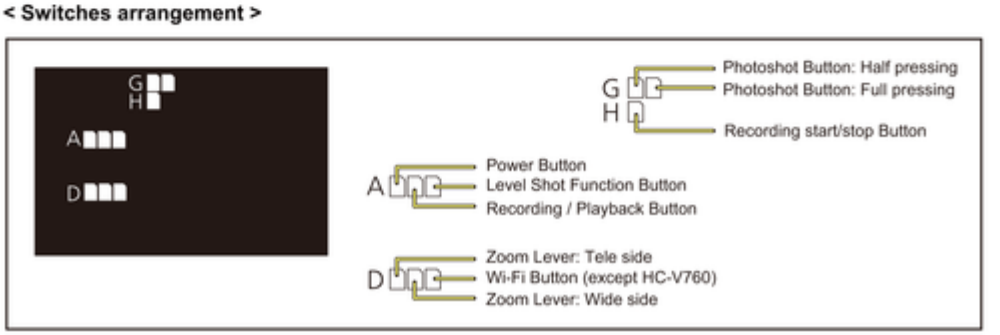

[SERVICE ADJUSTMENT]
START : SET
CANCEL : BAK
When touching the [BAK], the unit is going to motion picture recording mode.
Touch the [SET] of LCD
1. Model Setting
[SERVICE ADJUSTMENT]
MODEL SETTING
EXECUTE : SET
SKIP : BAK
Touch the [SET] of LCD
[When the model not sets]
MODEL SETTING
SELECT DESTINATION
[01] V770PP
[02] V770EG
[03] V770EP
The model setting is needed if the Main P.C.B. or Flash ROM (IC3404) is replaced.
> : Cursor
Touch [V] or [Λ] several times, move the cursor to desire model position.
(When skipping the model setting) Touch the [BAK] of LCD.
Touch the [SET] of LCD
[When the model already sets]
MODEL SETTING
SELECT DESTINATION
> [39] WX970MGN
[40] WX970MGK
MODEL SETTING
SELECT DESTINATION
> [01] WX970MGN
When model setting is already completed, model that can be selected is limited.
Touch the [SET] of LCD
Touch the [SET] of LCD
MODEL SETTING
[WX970MGN]
OK : SET
CANCEL : BAK
Touch the [SET] of LCD to set the model
MODEL SETTING
[WX970MGN]
Now Setting.
Now setting the model
Touch the [SET] of LCD
2. Setup Backup Filename

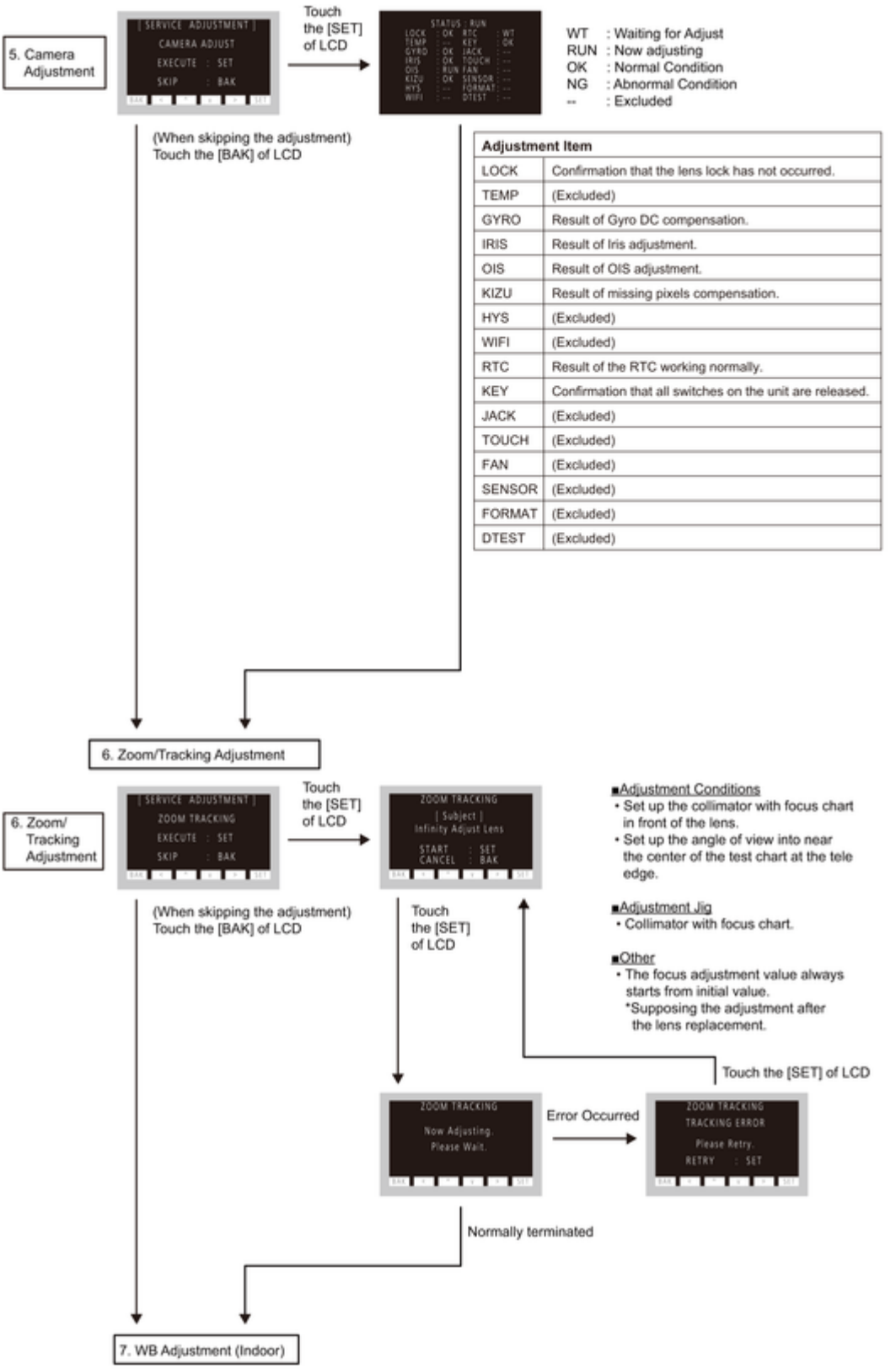

2. Setup Backup Filename
[SERVICE ADJUSTMENT]
BACKUP FILE NAME
EXECUTE : SET
SKIP : BAK
Touch the [SET] of LCD
BACKUP FILE NAME
[0000000000]
OK : SET
CANCEL : BAK
[ ]: Cursor
<: Move cursor 1 position left
>: Move cursor 1 position right
Λ: Increase 1 character (0→1→2→···)
V: Decrease 1 character (0→Z→Y→···)
(When skipping the setup)
Touch the [BAK] of LCD.
Backup filename: 00000000000 (Default)
or
xxxxxxxxxxx (Previously set)
(The backup filename is stored in Flash ROM.)
Touch the [SET] of LCD
For example, "ABCDE123456" as the specified backup filename;
First, a new folder (folder name is "\WX970" for HC-WX970, "\VX870M" for HC-VX870M.) is created at root folder of SD card.
Next, a new folder that is named first 5 letter of specified backup filename is created inside of model-named folder.
Then, the adjustment data backup file which filename is last 6 letter of specified backup filename is created inside of above folder.
BACKUP FILE NAME
[0000000000]
OK : SET
CANCEL : BAK
Touch the [BAK] of LCD
Touch the [SET] of LCD
3. Backup Execution


3. Backup Execution
[SERVICE ADJUSTMENT]
ADJUST DATA BACKUP
EXECUTE : SET
SKIP : BAK
Touch the [SET] of LCD
ADJUST DATA BACKUP
[00000000000]
Please Insert SD Card.
Adjustment data is backed up to SD card, and its filename is the specified backup filename of "2. Setup Backup Filename" or previous backup filename stored in Flash ROM.
(When skipping the backup) Touch the [BAK] of LCD
Touch the [SET] of LCD
ADJUST DATA BACKUP
[00000000000]
SD Card Writing.
Please Wait.
Write error occurred
Touch the [SET] of LCD
Touch the [SET] of LCD
ADJUST DATA BACKUP
[00000000000]
BACKUP COMPLETED
NEXT : SET
ADJUST DATA BACKUP
[00000000000]
SD Card Write Error
Please Retry.
RETRY : SET
Touch the [SET] of LCD
4. Checking Switches

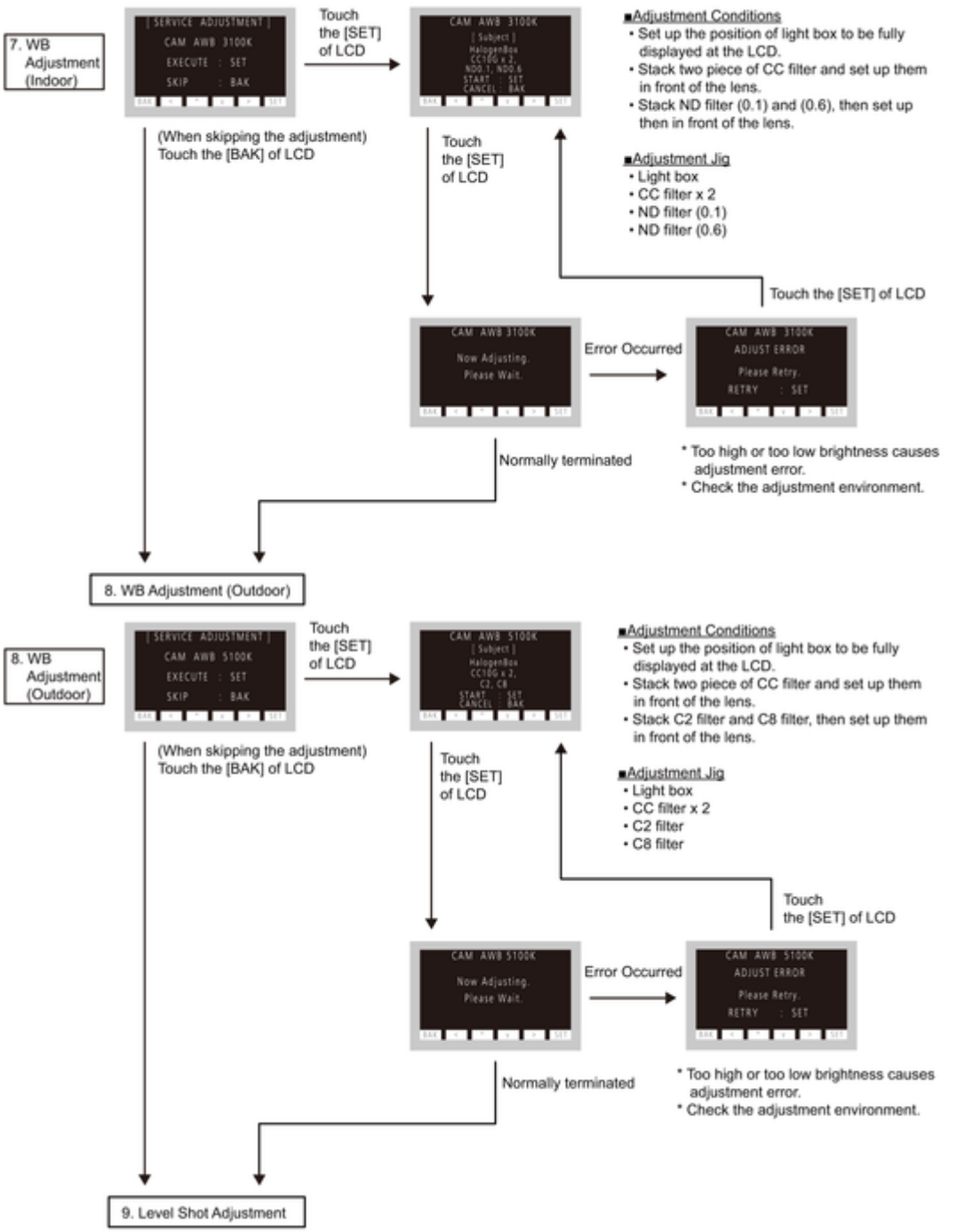


< Switches arrangement >





Adjustment Item	
LOCK	Confirmation that the lens lock has not occurred.
TEMP	(Excluded)
GYRO	Result of Gyro DC compensation.
IRIS	Result of Iris adjustment.
OIS	Result of OIS adjustment.
KIZU	Result of missing pixels compensation.
HYS	(Excluded)
WIFI	(Excluded)
RTC	Result of the RTC working normally.
KEY	Confirmation that all switches on the unit are released.
JACK	(Excluded)
TOUCH	(Excluded)
FAN	(Excluded)
SENSOR	(Excluded)
FORMAT	(Excluded)
DTEST	(Excluded)


7. WB Adjustment (Indoor)
[SERVICE ADJUSTMENT]
CAM AWB 3100K
EXECUTE : SET
SKIP : BAK
Touch the [SET] of LCD
CAM AWB 3100K
[Subject]
HalogenBox
CC10G x 2,
ND0.1, ND0.6
START : SET
CANCEL : BAK
■Adjustment Conditions
• Set up the position of light box to be fully displayed at the LCD.
• Stack two piece of CC filter and set up them in front of the lens.
• Stack ND filter (0.1) and (0.6), then set up then in front of the lens.
■Adjustment Jig
• Light box
• CC filter x 2
• ND filter (0.1)
• ND filter (0.6)
(When skipping the adjustment) Touch the [BAK] of LCD
Touch the [SET] of LCD
Touch the [SET] of LCD
CAM AWB 3100K
Now Adjusting.
Please Wait.
Error Occurred
CAM AWB 3100K
ADJUST ERROR
Please Retry.
RETRY : SET
Normally terminated
* Too high or too low brightness causes adjustment error.
* Check the adjustment environment.
8. WB Adjustment (Outdoor)
8. WB Adjustment (Outdoor)
[SERVICE ADJUSTMENT]
CAM AWB 5100K
EXECUTE : SET
SKIP : BAK
Touch the [SET] of LCD
CAM AWB 5100K
[Subject]
HalogenBox
CC10G x 2,
C2, C8
START : SET
CANCEL : BAK
■Adjustment Conditions
• Set up the position of light box to be fully displayed at the LCD.
• Stack two piece of CC filter and set up them in front of the lens.
• Stack C2 filter and C8 filter, then set up them in front of the lens.
■Adjustment Jig
• Light box
• CC filter x 2
• C2 filter
• C8 filter
(When skipping the adjustment) Touch the [BAK] of LCD
Touch the [SET] of LCD
Touch the [SET] of LCD
CAM AWB 5100K
Now Adjusting.
Please Wait.
Error Occurred
CAM AWB 5100K
ADJUST ERROR
Please Retry.
RETRY : SET
Normally terminated
* Too high or too low brightness causes adjustment error.
* Check the adjustment environment.
9. Level Shot Adjustment

9. Level Shot Adjustment

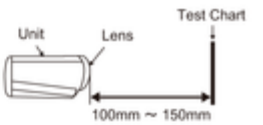
Touch the [SET] of LCD

(When skipping the adjustment)
Touch the [BAK] of LCD

Press the [Photo shot] button

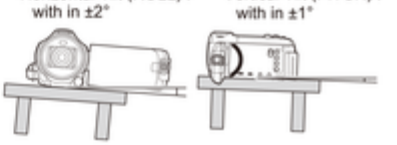
■Adjustment Conditions
- Open the LCD and turn reverse, then close.
- Shot the test chart to be displayed in full screen.

Distance (between end of lens and the chart):
100mm～150mm

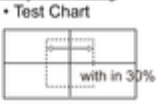


- Unit Installation Condition

Horizontal Tilt (ROLL) : with in ±2°
Vertical Tilt (PITCH) : with in ±1°



■Adjustment Jig
- Test Chart



[Chart Size]
A4
Print the test chart that white line to be 0.7mm width inside the vertical line.
[Test Angle]
Confirm that the vertical line is with in ±30% of the center of the screen.
Confirm that the horizontal line is displayed in both ends of screen.

[Test Chart Levelness]
Horizontal tilt (ROLL) : with in ±0.1°
Horizontal tilt (YAW) : with in ±5.0°
Vertical tilt (PITCH) : with in ±5.0°

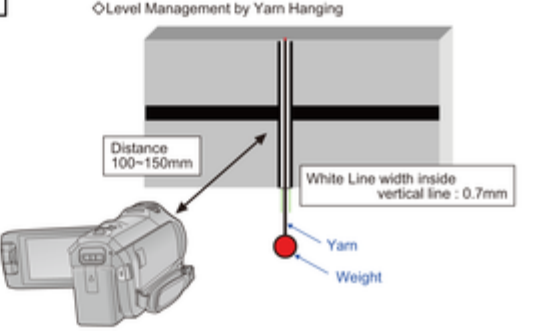
Touch the [SET] of LCD

Error Occurred

Normally terminated

Press the power button and turn off.
Adjustment completed.

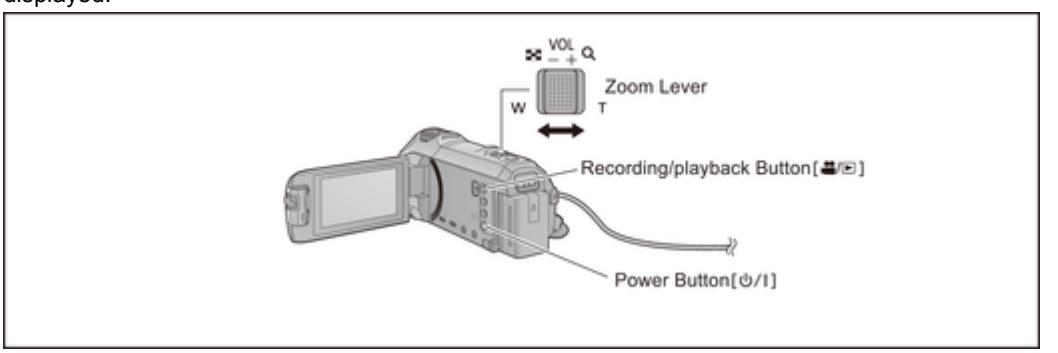
◇Level Management by Yarn Hanging



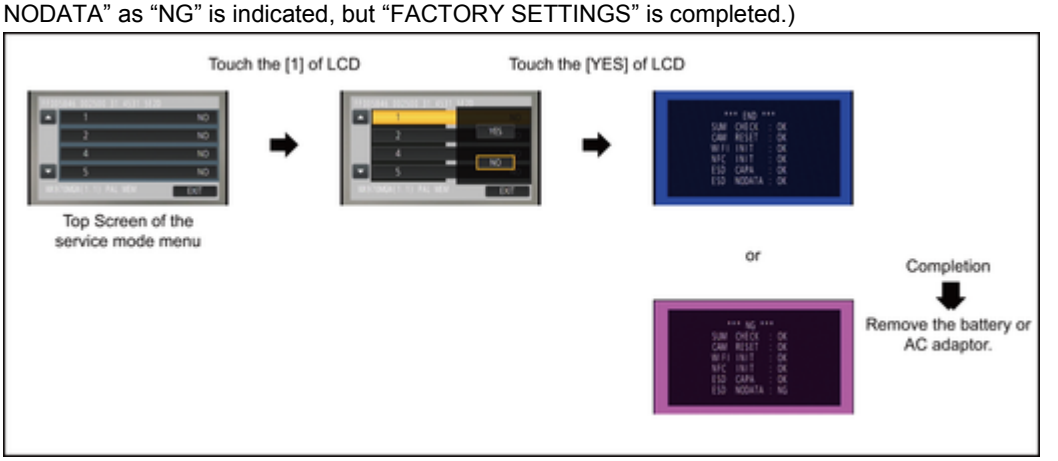
10 Factory Setting

10.1 How To Turn On The Factory Settings?

1. While the power is turned OFF, keep pressing the “Power” button, “Zoom Lever” to W side and “Recording/Playback” button for more than 3 seconds until the top screen of the Service Mode Menu being displayed.



2. Touch the [1] of LCD.
3. Touch the [YES] of LCD.
4. 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.)



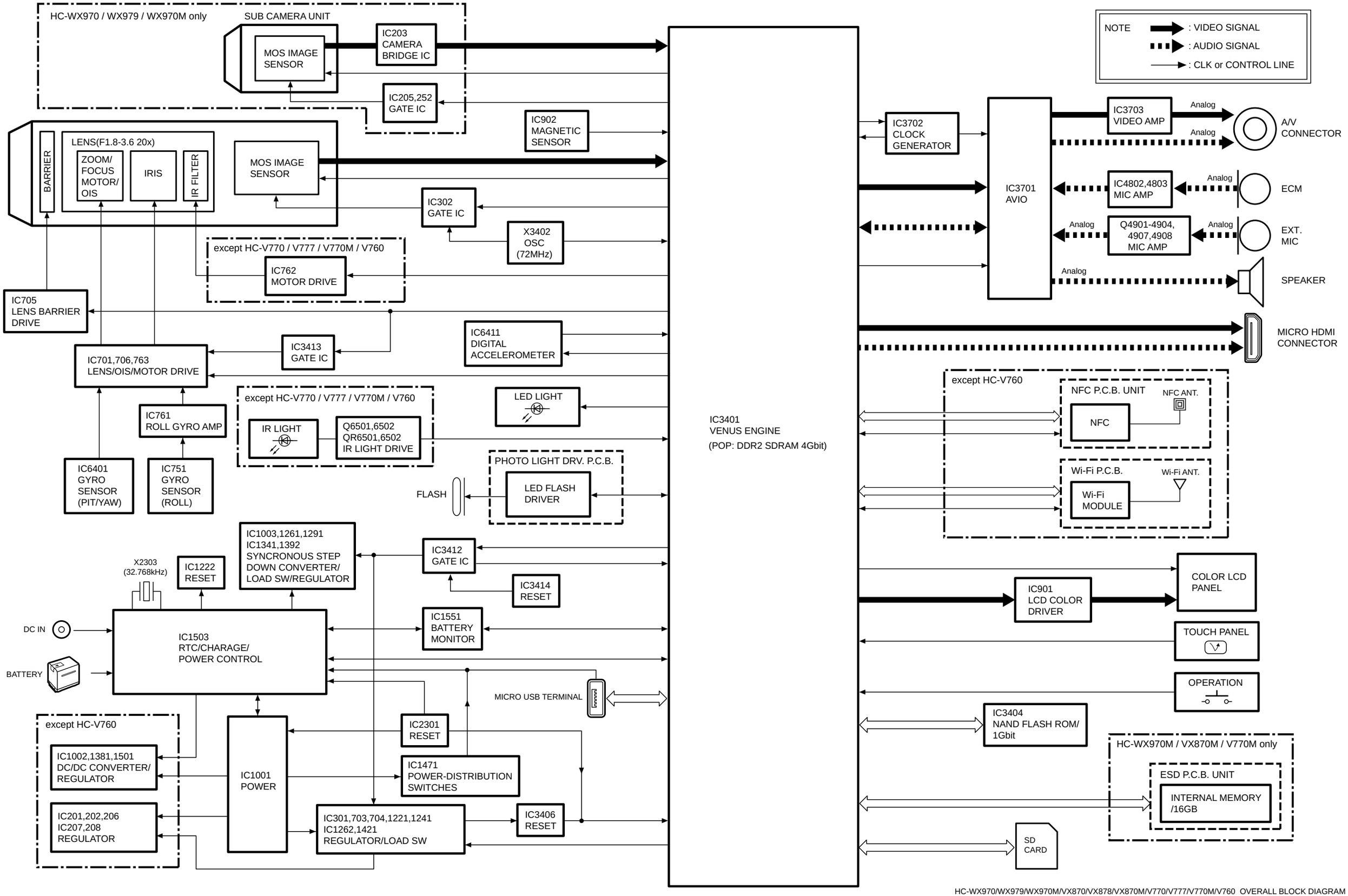
10.2 What Is The Factory Settings?

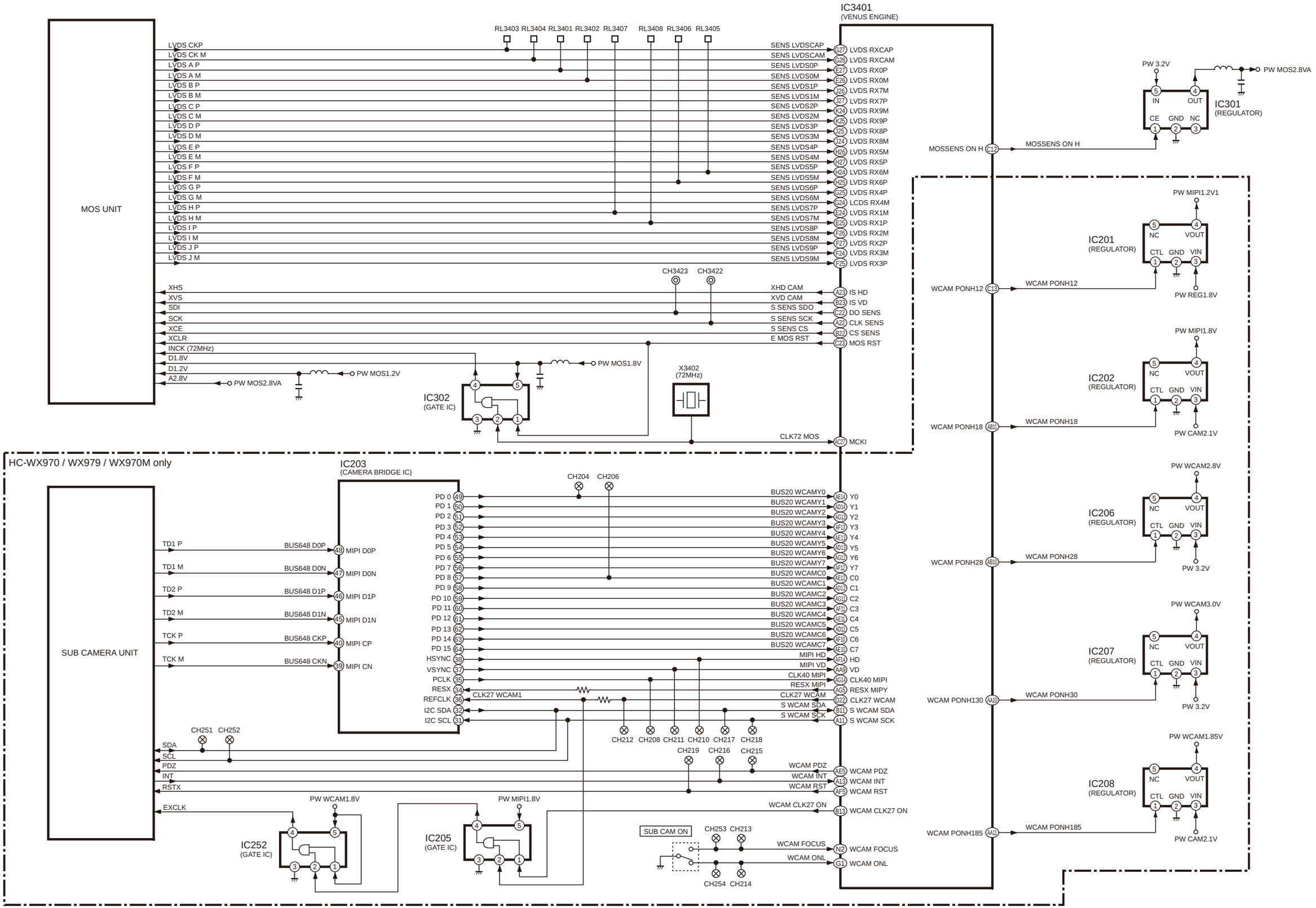
The factory settings clean up and/or refresh the following settings.

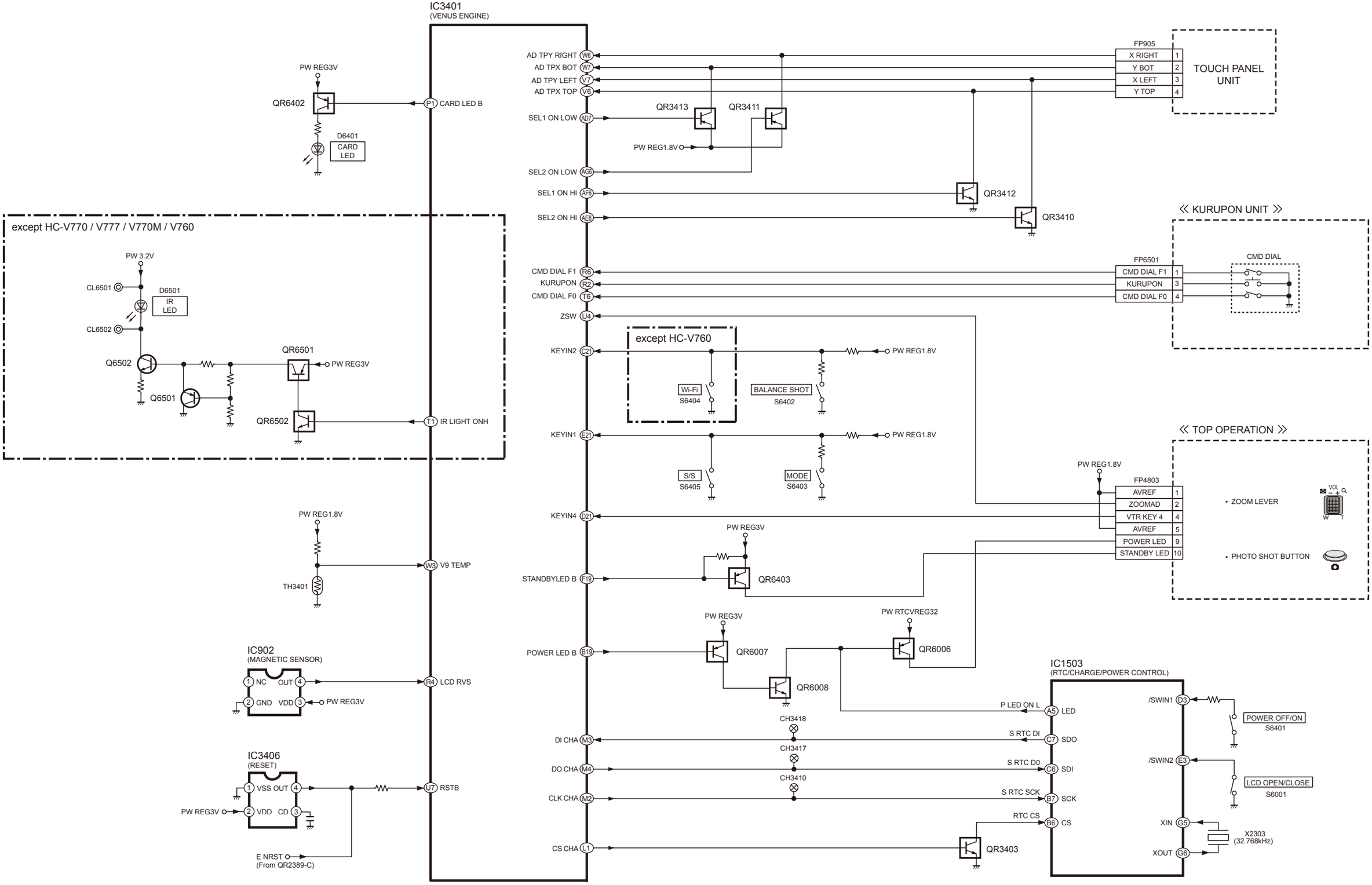
1. Setting Values of menu.
2. Clear the time and date setting.
3. Initialize the Wi-Fi data settings. (except HC-V760)
4. Initialize the NFC data settings. (except HC-V760)
5. Confirm that the built-in memory capacity is correct. (HC-WX970M/VX870M/V770M only) (Checking of the built-in memory mounting error.)
6. Confirm that the data area of built-in memory is cleared. (HC-WX970M/VX870M/V770M only)
7. Close the lens cover

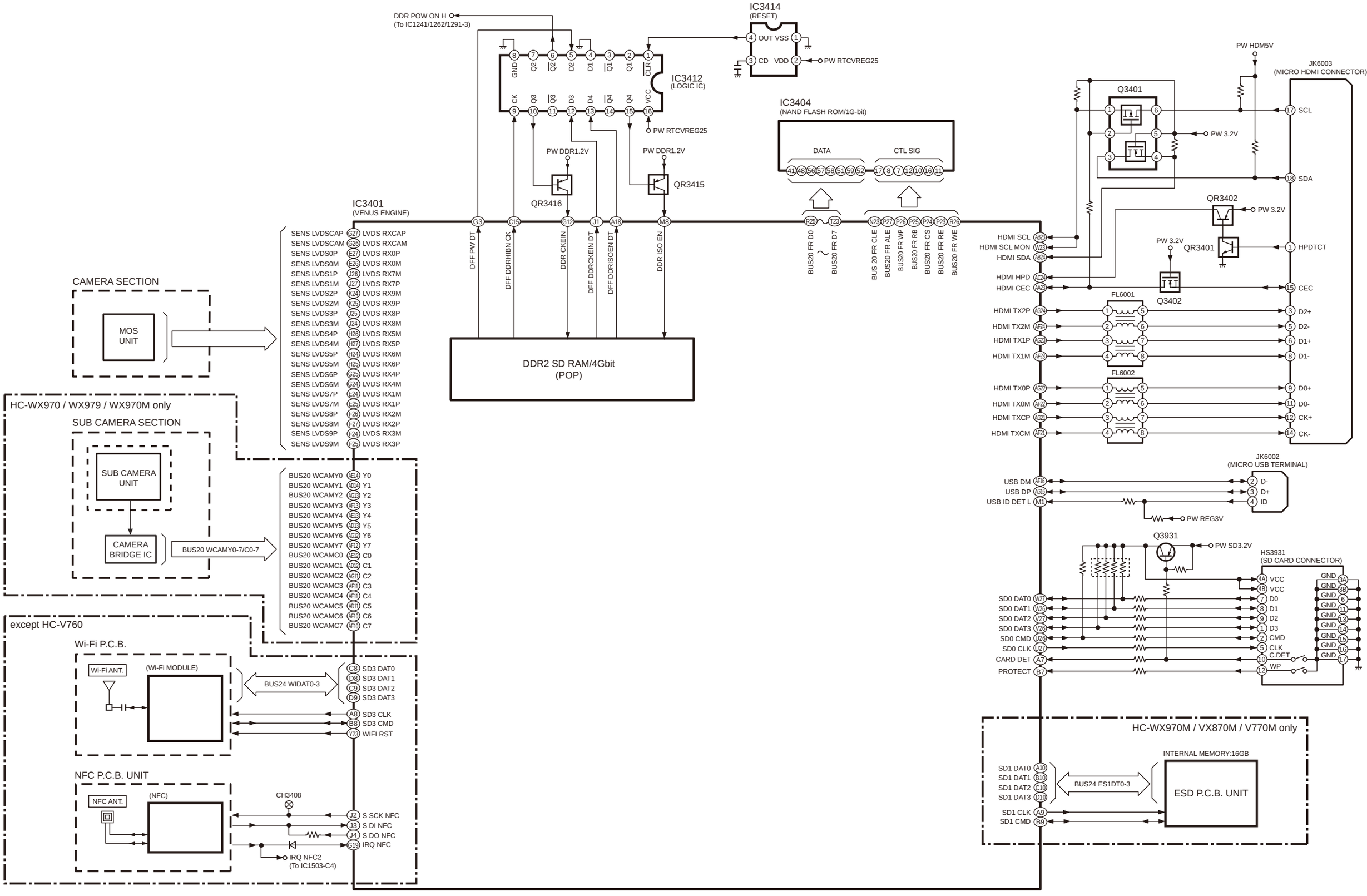
(HC-WX970M/VX870M/V770M only)
If the “Factory Settings” is completed, physical format of the build-in memory is not performed, execute physical format according to the following procedure.

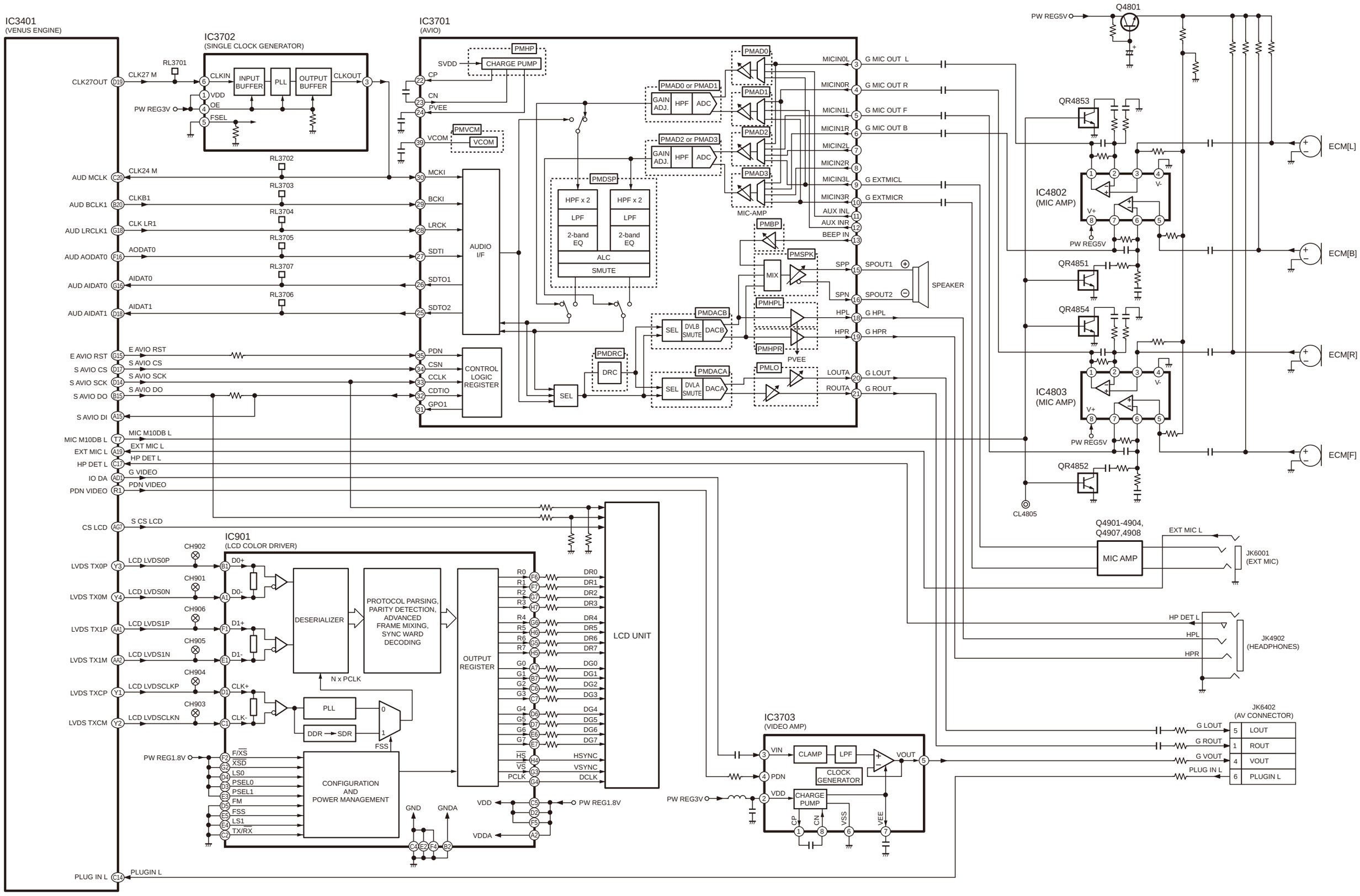
To physically format the built-in memory, connect the unit via the AC adaptor, select [SETUP] → [FORMAT MEDIA] → [Built-inMemory] from the menu, and then press and hold the recording start/stop button on the screen below for about 3 seconds. When the built-in memory data deletion screen appears, select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


HC-WX970 / WX979 / WX970M only
SUB CAMERA UNIT
MOS IMAGE SENSOR
IC203 CAMERA BRIDGE IC
IC205,252 GATE IC
IC902 MAGNETIC SENSOR
LENS(F1.8-3.6 20x)
BARRIER
ZOOM/ FOCUS MOTOR/ OIS
IRIS
IR FILTER
MOS IMAGE SENSOR
IC302 GATE IC
X3402 OSC (72MHz)
except HC-V770 / V777 / V770M / V760
IC762 MOTOR DRIVE
IC705 LENS BARRIER DRIVE
IC3413 GATE IC
IC6411 DIGITAL ACCELEROMETER
IC701,706,763 LENS/OIS/MOTOR DRIVE
except HC-V770 / V777 / V770M / V760
LED LIGHT
IC761 ROLL GYRO AMP
IR LIGHT
Q6501,6502 QR6501,6502 IR LIGHT DRIVE
PHOTO LIGHT DRV. P.C.B.
IC6401 GYRO SENSOR (PIT/YAW)
IC751 GYRO SENSOR (ROLL)
FLASH
LED FLASH DRIVER
IC1003,1261,1291 IC1341,1392 SYNCRONOUS STEP DOWN CONVERTER/ LOAD SW/REGULATOR
IC3412 GATE IC
X2303 (32.768kHz)
IC1222 RESET
IC3414 RESET
DC IN
IC1503 RTC/CHARAGE/ POWER CONTROL
IC1551 BATTERY MONITOR
BATTERY
MICRO USB TERMINAL
except HC-V760
IC2301 RESET
IC1002,1381,1501 DC/DC CONVERTER/ REGULATOR
IC1001 POWER
IC1471 POWER-DISTRIBUTION SWITCHES
IC201,202,206 IC207,208 REGULATOR
IC301,703,704,1221,1241 IC1262,1421 REGULATOR/LOAD SW
IC3406 RESET
IC3401 VENUS ENGINE
(POP: DDR2 SDRAM 4Gbit)
NOTE
: VIDEO SIGNAL
: AUDIO SIGNAL
: CLK or CONTROL LINE
IC3702 CLOCK GENERATOR
IC3701 AVIO
IC3703 VIDEO AMP
Analog
A/V CONNECTOR
IC4802,4803 MIC AMP
ECM
Q4901-4904, 4907,4908 MIC AMP
EXT. MIC
SPEAKER
MICRO HDMI CONNECTOR
except HC-V760
NFC P.C.B. UNIT
NFC ANT.
NFC
Wi-Fi P.C.B.
Wi-Fi ANT.
Wi-Fi MODULE
IC901 LCD COLOR DRIVER
COLOR LCD PANEL
TOUCH PANEL
OPERATION
IC3404 NAND FLASH ROM/ 1Gbit
HC-WX970M / VX870M / V770M only
ESD P.C.B. UNIT
INTERNAL MEMORY /16GB
SD CARD


MOS UNIT
LVDS CKP
LVDS CK M
LVDS A P
LVDS A M
LVDS B P
LVDS B M
LVDS C P
LVDS C M
LVDS D P
LVDS D M
LVDS E P
LVDS E M
LVDS F P
LVDS F M
LVDS G P
LVDS G M
LVDS H P
LVDS H M
LVDS I P
LVDS I M
LVDS J P
LVDS J M
RL3403 RL3404 RL3401 RL3402 RL3407 RL3408 RL3406 RL3405
IC3401
(VENUS ENGINE)
SENS LVDSCAP
SENS LVDSCAM
SENS LVDS0P
SENS LVDS0M
SENS LVDS1P
SENS LVDS1M
SENS LVDS2P
SENS LVDS2M
SENS LVDS3P
SENS LVDS3M
SENS LVDS4P
SENS LVDS4M
SENS LVDS5P
SENS LVDS5M
SENS LVDS6P
SENS LVDS6M
SENS LVDS7P
SENS LVDS7M
SENS LVDS8P
SENS LVDS8M
SENS LVDS9P
SENS LVDS9M
LVDS RXCAP
LVDS RXCAM
LVDS RX0P
LVDS RX0M
LVDS RX7M
LVDS RX7P
LVDS RX9M
LVDS RX9P
LVDS RX8P
LVDS RX8M
LVDS RX5M
LVDS RX5P
LVDS RX6M
LVDS RX6P
LCDS RX4M
LVDS RX4P
LVDS RX1M
LVDS RX1P
LVDS RX2M
LVDS RX2P
LVDS RX3M
LVDS RX3P
CH3423 CH3422
XHS
XVS
SDI
SCK
XCE
XCLR
INCK (72MHz)
D1.8V
D1.2V
A2.8V
PW MOS1.2V
PW MOS2.8VA
XHD CAM
XVD CAM
S SENS SDO
S SENS SCK
S SENS CS
E MOS RST
IS HD
IS VD
DO SENS
CLK SENS
CS SENS
MOS RST
PW MOS1.8V
IC302
(GATE IC)
X3402
(72MHz)
CLK72 MOS
MCKI
PW 3.2V
PW MOS2.8VA
IC301
(REGULATOR)
IN
OUT
CE
GND
NC
MOSSENS ON H
MOSSENS ON H
PW MIPI1.2V1
IC201
(REGULATOR)
NC
VOUT
CTL
GND
VIN
WCAM PONH12
WCAM PONH12
PW REG1.8V
PW MIPI1.8V
IC202
(REGULATOR)
WCAM PONH18
WCAM PONH18
PW CAM2.1V
HC-WX970 / WX979 / WX970M only
IC203
(CAMERA BRIDGE IC)
SUB CAMERA UNIT
TD1 P
TD1 M
TD2 P
TD2 M
TCK P
TCK M
BUS648 D0P
BUS648 D0N
BUS648 D1P
BUS648 D1N
BUS648 CKP
BUS648 CKN
MIPI D0P
MIPI D0N
MIPI D1P
MIPI D1N
MIPI CP
MIPI CN
CH204 CH206
PD 0
PD 1
PD 2
PD 3
PD 4
PD 5
PD 6
PD 7
PD 8
PD 9
PD 10
PD 11
PD 12
PD 13
PD 14
PD 15
HSYNC
VSYNC
PCLK
RESX
REFCLK
I2C SDA
I2C SCL
BUS20 WCAMY0
BUS20 WCAMY1
BUS20 WCAMY2
BUS20 WCAMY3
BUS20 WCAMY4
BUS20 WCAMY5
BUS20 WCAMY6
BUS20 WCAMY7
BUS20 WCAMC0
BUS20 WCAMC1
BUS20 WCAMC2
BUS20 WCAMC3
BUS20 WCAMC4
BUS20 WCAMC5
BUS20 WCAMC6
BUS20 WCAMC7
MIPI HD
MIPI VD
CLK40 MIPI
RESX MIPY
CLK27 WCAM
S WCAM SDA
S WCAM SCK
Y0
Y1
Y2
Y3
Y4
Y5
Y6
Y7
C0
C1
C2
C3
C4
C5
C6
C7
HD
VD
CLK40 MIPI
RESX MIPY
CLK27 WCAM1
CLK27 WCAM
S WCAM SDA
S WCAM SCK
CH212 CH208 CH211 CH210 CH217 CH218
CH219 CH216 CH215
CH251 CH252
SDA
SCL
PDZ
INT
RSTX
EXCLK
WCAM PDZ
WCAM INT
WCAM RST
WCAM CLK27 ON
WCAM PDZ
WCAM INT
WCAM RST
WCAM CLK27 ON
PW WCAM1.8V
IC252
(GATE IC)
PW MIPI1.8V
IC205
(GATE IC)
SUB CAM ON
CH253 CH213
CH254 CH214
WCAM FOCUS
WCAM ONL
WCAM FOCUS
WCAM ONL
PW WCAM2.8V
IC206
(REGULATOR)
WCAM PONH28
WCAM PONH28
PW 3.2V
PW WCAM3.0V
IC207
(REGULATOR)
WCAM PONH130
WCAM PONH30
PW 3.2V
PW WCAM1.85V
IC208
(REGULATOR)
WCAM PONH185
WCAM PONH185
PW CAM2.1V


IC3401
(VENUS ENGINE)
PW REG3V
QR6402
P1 CARD LED B
D6401
CARD LED
except HC-V770 / V777 / V770M / V760
PW 3.2V
CL6501
D6501
IR LED
CL6502
Q6502
QR6501
PW REG3V
Q6501
QR6502
T1 IR LIGHT ONH
AD TPY RIGHT W6
AD TPX BOT W7
AD TPY LEFT V7
AD TPX TOP V6
SEL1 ON LOW AD7
QR3413
QR3411
PW REG1.8V
SEL2 ON LOW AG6
SEL1 ON HI AF6
QR3412
SEL2 ON HI AE6
QR3410
FP905
X RIGHT 1
Y BOT 2
X LEFT 3
Y TOP 4
TOUCH PANEL UNIT
« KURUPON UNIT »
FP6501
CMD DIAL F1 1
KURUPON 3
CMD DIAL F0 4
CMD DIAL
CMD DIAL F1 R6
KURUPON R2
CMD DIAL F0 T6
ZSW U4
KEYIN2 C21
except HC-V760
PW REG1.8V
Wi-Fi
S6404
BALANCE SHOT
S6402
KEYIN1 E21
S/S
S6405
MODE
S6403
« TOP OPERATION »
PW REG1.8V
FP4803
AVREF 1
ZOOMAD 2
VTR KEY 4 4
AVREF 5
POWER LED 9
STANDBY LED 10
• ZOOM LEVER
VOL
W T
• PHOTO SHOT BUTTON
KEYIN4 D21
PW REG1.8V
TH3401
W3 V9 TEMP
PW REG3V
STANDBYLED B F19
QR6403
IC902
(MAGNETIC SENSOR)
1 NC OUT 4
2 GND VDD 3
PW REG3V
R4 LCD RVS
PW REG3V
POWER LED B B19
QR6007
QR6008
PW RTCVREG32
QR6006
IC1503
(RTC/CHARGE/POWER CONTROL)
P LED ON L
A5 LED
CH3418
DI CHA M3
S RTC DI
C7 SDO
CH3417
DO CHA M4
S RTC D0
C6 SDI
CH3410
CLK CHA M2
S RTC SCK
B7 SCK
RTC CS
B6 CS
CS CHA L1
QR3403
/SWIN1 D3
POWER OFF/ON
S6401
/SWIN2 E3
LCD OPEN/CLOSE
S6001
XIN G5
X2303
(32.768kHz)
XOUT G6
IC3406
(RESET)
1 VSS OUT 4
2 VDD CD 3
PW REG3V
U7 RSTB
E NRST
(From QR2389-C)


DDR POW ON H
(To IC1241/1262/1291-3)
IC3414
(RESET)
OUT VSS
CD VDD
PW RTCVREG25
IC3412
(LOGIC IC)
GND Q2 Q2 D2 D1 Q1 Q1 CLR
CK Q3 Q3 D3 D4 Q4 Q4 VCC
PW RTCVREG25
PW DDR1.2V
PW DDR1.2V
QR3415
QR3416
IC3404
(NAND FLASH ROM/1G-bit)
DATA
CTL SIG
IC3401
(VENUS ENGINE)
DFF PW DT
DFF DDRHIBN CK
DDR CKEIN
DFF DDRCKEIN DT
DFF DDRISOEN DT
DDR ISO EN
BUS20 FR D0
BUS20 FR D7
BUS 20 FR CLE
BUS20 FR ALE
BUS20 FR WP
BUS20 FR RB
BUS20 FR CS
BUS20 FR RE
BUS20 FR WE
DDR2 SD RAM/4Gbit
(POP)
SENS LVDSCAP G27 LVDS RXCAP
SENS LVDSCAM G26 LVDS RXCAM
SENS LVDS0P E27 LVDS RX0P
SENS LVDS0M E26 LVDS RX0M
SENS LVDS1P J26 LVDS RX7M
SENS LVDS1M J27 LVDS RX7P
SENS LVDS2P K24 LVDS RX9M
SENS LVDS2M K25 LVDS RX9P
SENS LVDS3P J25 LVDS RX8P
SENS LVDS3M J24 LVDS RX8M
SENS LVDS4P H26 LVDS RX5M
SENS LVDS4M H27 LVDS RX5P
SENS LVDS5P H24 LVDS RX6M
SENS LVDS5M H25 LVDS RX6P
SENS LVDS6P G25 LVDS RX4P
SENS LVDS6M G24 LVDS RX4M
SENS LVDS7P E24 LVDS RX1M
SENS LVDS7M E25 LVDS RX1P
SENS LVDS8P F26 LVDS RX2M
SENS LVDS8M F27 LVDS RX2P
SENS LVDS9P F24 LVDS RX3M
SENS LVDS9M F25 LVDS RX3P
CAMERA SECTION
MOS UNIT
HC-WX970 / WX979 / WX970M only
SUB CAMERA SECTION
SUB CAMERA UNIT
CAMERA BRIDGE IC
BUS20 WCAMY0-7/C0-7
BUS20 WCAMY0 AE14 Y0
BUS20 WCAMY1 AD14 Y1
BUS20 WCAMY2 AG13 Y2
BUS20 WCAMY3 AF13 Y3
BUS20 WCAMY4 AE13 Y4
BUS20 WCAMY5 AD13 Y5
BUS20 WCAMY6 AG12 Y6
BUS20 WCAMY7 AF12 Y7
BUS20 WCAMC0 AE12 C0
BUS20 WCAMC1 AD12 C1
BUS20 WCAMC2 AG11 C2
BUS20 WCAMC3 AF11 C3
BUS20 WCAMC4 AE11 C4
BUS20 WCAMC5 AD11 C5
BUS20 WCAMC6 AF10 C6
BUS20 WCAMC7 AE10 C7
except HC-V760
Wi-Fi P.C.B.
Wi-Fi ANT.
(Wi-Fi MODULE)
BUS24 WIDAT0-3
C8 SD3 DAT0
D8 SD3 DAT1
C9 SD3 DAT2
D9 SD3 DAT3
A8 SD3 CLK
B8 SD3 CMD
Y23 WIFI RST
NFC P.C.B. UNIT
NFC ANT.
(NFC)
CH3408
J2 S SCK NFC
J3 S DI NFC
J4 S DO NFC
G19 IRQ NFC
IRQ NFC2
(To IC1503-C4)
PW HDM5V
JK6003
(MICRO HDMI CONNECTOR)
Q3401
PW 3.2V
SCL
SDA
QR3402
PW 3.2V
QR3401
HPDTCT
PW 3.2V
Q3402
CEC
HDMI SCL AB23
HDMI SCL MON W23
HDMI SDA AB24
HDMI HPD AC24
HDMI CEC AA23
FL6001
HDMI TX2P AG24 D2+
HDMI TX2M AF24 D2-
HDMI TX1P AG23 D1+
HDMI TX1M AF23 D1-
FL6002
HDMI TX0P AG22 D0+
HDMI TX0M AF22 D0-
HDMI TXCP AG21 CK+
HDMI TXCM AF21 CK-
JK6002
(MICRO USB TERMINAL)
USB DM AF16 D-
USB DP AG16 D+
USB ID DET L M1 ID
PW REG3V
Q3931
PW SD3.2V
HS3931
(SD CARD CONNECTOR)
SD0 DAT0 W27
SD0 DAT1 W26
SD0 DAT2 V27
SD0 DAT3 V26
SD0 CMD U26
SD0 CLK U27
CARD DET A7
PROTECT B7
VCC
VCC
D0
D1
D2
D3
CMD
CLK
C.DET
WP
GND
HC-WX970M / VX870M / V770M only
INTERNAL MEMORY:16GB
SD1 DAT0 A10
SD1 DAT1 B10
SD1 DAT2 C10
SD1 DAT3 D10
SD1 CLK A9
SD1 CMD B9
BUS24 ES1DT0-3
ESD P.C.B. UNIT


IC3401
(VENUS ENGINE)
IC3702
(SINGLE CLOCK GENERATOR)
RL3701
CLK27OUT
CLK27 M
CLKIN
INPUT BUFFER
PLL
OUTPUT BUFFER
CLKOUT
VDD
OE
FSEL
PW REG3V
IC3701
(AVIO)
PMHP
CHARGE PUMP
SVDD
CP
CN
PVEE
VCOM
PMVCM
VCOM
PMAD0
PMAD0 or PMAD1
PMAD1
PMAD2
PMAD2 or PMAD3
PMAD3
GAIN ADJ.
HPF
ADC
MIC-AMP
MICIN0L
MICIN0R
MICIN1L
MICIN1R
MICIN2L
MICIN2R
MICIN3L
MICIN3R
AUX INL
AUX INR
BEEP IN
G MIC OUT L
G MIC OUT R
G MIC OUT F
G MIC OUT B
G EXTMICL
G EXTMICR
PMDSP
HPF x 2
LPF
2-band EQ
ALC
SMUTE
PMBP
PMSPK
MIX
SPP
SPN
SPOUT1
SPOUT2
SPEAKER
PMHPL
PMHPR
HPL
HPR
G HPL
G HPR
PMDACB
PMDACA
SEL
DVLB SMUTE
DVLA SMUTE
DACB
DACA
PMDRC
DRC
PMLO
LOUTA
ROUTA
G LOUT
G ROUT
AUDIO I/F
CONTROL LOGIC REGISTER
MCKI
BCKI
LRCK
SDTI
SDTO1
SDTO2
PDN
CSN
CCLK
CDTIO
GPO1
AUD MCLK
AUD BCLK1
AUD LRCLK1
AUD AODAT0
AUD AIDAT0
AUD AIDAT1
CLK24 M
CLKB1
CLK LR1
AODAT0
AIDAT0
AIDAT1
RL3702
RL3703
RL3704
RL3705
RL3707
RL3706
E AVIO RST
S AVIO CS
S AVIO SCK
S AVIO DO
S AVIO DI
MIC M10DB L
EXT MIC L
HP DET L
G VIDEO
PDN VIDEO
S CS LCD
CS LCD
PLUG IN L
Q4801
PW REG5V
QR4853
QR4851
QR4854
QR4852
IC4802
(MIC AMP)
IC4803
(MIC AMP)
ECM[L]
ECM[B]
ECM[R]
ECM[F]
CL4805
Q4901-4904,
Q4907,4908
MIC AMP
JK6001
(EXT MIC)
JK4902
(HEADPHONES)
JK6402
(AV CONNECTOR)
LOUT
ROUT
VOUT
PLUGIN L
IC901
(LCD COLOR DRIVER)
CH902
CH901
CH906
CH905
CH904
CH903
LVDS TX0P
LVDS TX0M
LVDS TX1P
LVDS TX1M
LVDS TXCP
LVDS TXCM
LCD LVDS0P
LCD LVDS0N
LCD LVDS1P
LCD LVDS1N
LCD LVDSCLKP
LCD LVDSCLKN
D0+
D0-
D1+
D1-
CLK+
CLK-
DESERIALIZER
PROTOCOL PARSING, PARITY DETECTION, ADVANCED FRAME MIXING, SYNC WARD DECODING
N x PCLK
PLL
DDR → SDR
FSS
OUTPUT REGISTER
LCD UNIT
CONFIGURATION AND POWER MANAGEMENT
F/XS
XSD
LS0
PSEL0
PSEL1
FM
FSS
LS1
TX/RX
PW REG1.8V
GND
GNDA
VDD
VDDA
IC3703
(VIDEO AMP)
VIN
PDN
VDD
CLAMP
LPF
CLOCK GENERATOR
CHARGE PUMP
VOUT
CP
CN
VSS
VEE

IC3401
(VENUS ENGINE)

FP6008
42 IR ABS
6 2G ZLEDCONT
5 2G ZABS
47 3G ZLEDCONT
46 3G ZABS
44 4G ZLEDCONT
43 4G ZABS
7 TOUT

2GZOOM ENC
3GZOOM ENC
4GZOOM ENC
IR ENC

Q774
QR751
PW REG3V

FP6005
1 SHTR OPEN
4 OP LED
5 LENSBA MT A-
6 LENSBA MT B-
7 LENSBA MT A+
8 LENSBA MT B+

LENS BARRIER
FILTER
MOS

IC705
(LENS BARRIER DRIVE)
MN1 5
MN2 10
MP1 3
MP2 11
STB 1
E1 9
E2 6
SYSCK 12
CH728 CH727 CH726

IC763
(STEPPING MOTOR DRIVE)
SYSCK 12
STB 1
E1 9
E2 6
MN1 5
MP1 3
MP2 11
MN2 10

3G ZOOM MOTOR
FP6008
50 3GZAP
48 3GZAN
51 3GZBN
49 3GZBP

CH731

IC3413
(GATE IC)
PW REG1.8V

except HC-V770 / V777 / V770M / V760

Q775
PW 5V
QR774

IC762
(MOTOR DRIVE)
VCC 8

IRFIL MOTOR
FP6008
38 IRFIL M+
39 IRFIL M-

Q773
PW LENS3.2V
QR773

IC706
(MOTOR DRIVE)
VCC 8

FOCUS MOTOR
FP6008
36 FMT+
37 FMT-

CH740

IC701
(LENS/OIS/MOTOR DRIVE)

FP6008
34 FMR A
31 FMR B
28 IRIS HO-
27 IRIS HIN-
30 IRIS HO+
29 IRIS HIN+
3 4G ZAP
1 4G ZAN
4 4G ZBN
2 4G ZBP
25 IRIS M+
26 IRIS M-
9 2G ZAN
12 2G ZBN
11 2G ZAP
10 2G ZBP

FOCUS MR UNIT
HALL SENSOR
4G ZOOM MOTOR
IRIS MOTOR
2G ZOOM MOTOR

MRA 65
MRB 68
IRHON 76
IRHOP 77
IRHINP 55
AFAP 40
AFAN 37
AFBN 33
AFBP 36
IRMP 5
IRMN 8
ZAN 14
ZBN 10
ZAP 17
ZBP 13

PWMOUT2 42
PWMOUT1 41
LIN PWM 6
MREF 60
CK27M 21

CH741 CH742 CH743 CH744 CH745 CH746 CH747 CH748

VD 22
HD 23
NSCS 32
SCK 3
SDI(V2L) 12
SDO(L2V) 15
DAC LD 1
NPORI 80
GYRO2 50
ELEVER 49
NDFNO 46

OIS UNIT

FP6008
24 PIT DRV+
23 PIT DRV-
22 PIT HO+
19 PIT HIN+
20 PIT HO-
21 PIT HIN-
13 YAW DRV-
14 YAW DRV+
15 YAW HIN-
16 YAW HO+
17 YAW HIN+
18 YAW HO-

HALL SENSOR
HALL SENSOR

PMP 27
PMN 24
PHINP 57
PHON 71
PHOP 70
YMN 28
YMP 31
YHOP 74
YHINP 56
YHON 73

CH6401
CH6404
CH6403

GCSB 26
GSCK 35
GSI 44
GSO 29
NDHB 54

GYRO1 48
VDD15 19 PW LENS1.5V

IC761
(ROLL GYRO AMP)

IC751
(GYRO SENSOR:ROLL)
OUT 2
VREF 6
VCC 4 PW GYRO3V

IC6401
(GYRO SENSOR:PIT/YAW)
CSB 8
SCLK 9
MISO 10
MOSI 11
CH6406
VCC 1 PW GYRO3V
VDD 7
GND1 2 CH6405
GND2 4
GND3 6
INT 15 CH6413

STROM VD60 AE15
STROM HD225 E22
NSCS LEN B17
SCK LEN D15
SDO LEN B16
SDI LEN A16
DACLD LEN A17
E LENS RST N6

IRFILABS LEN H4
2GZABS LEN N4
3GZABS LEN H1
LEDCONT LEN N7
4GZABS LEN P7
LENS TEMP U3
SHTR OPEN N3
LBALED TR D2 G4
FULLLENSBA H M6
PWM LENSBA1 C16
PWM LENSBA2 D16
CLK27 LENS H3
3GZOOM H A14
PWM REF B14
PWM IRFILM F17

PHOTO LIGHT DRV. P.C.B.
PW STNOREG
LED FLASH DRIVER
CHAEND AE8
TRIGEND H2
S LF ACL SCL K2
S LF ACL SDA K3

IC6411
(DIGITAL ACCELEROMETER)
SCL/SCLK 4
SDA/SDI/SDIO 6
INT1 11 CH6411
INT2 9 CH6412
VDD I/O 1 PW REG3V
VS 14
Reserved(VS) 15
CS 8
SDO/ALT ADDRESS 7
GND 16
GND 13
GND 12
Reserved(GND) 10

Please check the Fuse Resistor and IC Protector when an output voltage does not output.

⚠ **FUSE RESISTOR:**
(R1001/R1271/R1503/R6003)

⚠ **IC PROTECTOR:**
(IP6401/IP6701)

HC-WX970 / WX979 / WX970M only

DC IN

JK6401

NOREG

IP6401

Q1501

BATTERY

JK6701

BATT +

IP6701

T

D

Q1502

Q1503

Q1471

QR1471

IC1471
(POWER-DISTRIBUTION SWITCHES)

OUT

IN

ILIM

GND

/FAULT

EN

CH1471

JK6002
USB TERMINAL

VBUS

R6003

Q1504

IC1503
(RTC/CHARGE CONTROL)

QR1502

QR1501

IC3401
(VENUS ENGINE)

BATT V

BATT TXD

BATT RXD

USB VBUS

POWER OFF/ON
S6401

CH3418

DI CHA

CH3417

DO CHA

CH3410

CLK CHA

CS CHA

QR3403

VBUS OCP

VBUS ON H

S FG PWR SCL

S FG PWR SDA

RSTB

QR2389

PWSW

ADPSW

ADP

VADP

SW

ISNS

TDET

/SWIN1

SDO

SDI

SCK

CS

USBSW

VUSB

USB

OUT

BAT

SWIN4

WKUP RST

FULLSET

BATSET

VREG25

/SWIN3

COINBAT

B501
LI BATT

DVIN

CHG EN

USB EN

USB WK CNT

/DO

VREG32

WKUP

QR1503

IC2301
(RESET)

GND

VDD

OUT

CD

IC1551
(BATTERY MONITOR)

SDA

SCL

THM

ALRTN

VREG

VBAT

VDD

VSS

except HC-V760

R1503

PW NFCVDD2

IC1501
(REGULATOR)

VIN

VOUT

CE

GND

CH1001

CH1002

IC1001
(POWER)

VCC

VREGA

GND

VOSEL2

VOSEL3

VOSEL4

SDA

SCL

STB1234

STB6

LX1

VO1E

SWOUT

PGND1

HX2

LX21

LX22

VO2E

PGND2

HX36

LX3

LX3

PGND3

PGND3

HX4

LX4

PGND45

HX5

LX5

LX6

VDD

INV7

LED

VO7

INV6

INV5

VO4

VO3

REGOUT

LX7

PGND67

CH1241

QR1001

QR1003

R1271

D902-906
(LCD BACK LIGHT)

CH1103

QR1101

QR2308

CH1101

QR1222

QR1002

CH1105

Q1001

PW RTCVREG32
(To QR6006-E)

PW RTCVREG25
(To IC3412-16/IC3414-2)

IC1222
(RESET)

QR1221

IC1003
(SYNCHRONOUS STEP DOWN CONVERTER)

PVIN

PVIN

AVIN

SS

EN

PGND

PGND

VOS

SW

SW

DEF

PG

CN

CP

AGND

FB

IC1002
(DC/DC CONVERTER)

FB

VSEL

MODE /SYNC

SGND

NC

VDD

VOUT

SW2

PGND

SW1

PVIN

EN

IC1221
(LOAD SW)

CE

DELAY

VIN

VOUT

BIAS

GND

IC704
(REGULATOR)

IC1421
(REGULATOR)

IC703
(REGULATOR)

IC1241
(LOAD SW)

IC1341
(REGULATOR)

IC1262
(LOAD SW)

IC1261
(REGULATOR)

IC1291
(LOAD SW)

IC1392
(REGULATOR)

R1001

except HC-V760

IC1381
(REGULATOR)

VDD

VOUT

NC

CS

CE

GND

PW CAM2.1V

PW 5V

PW HDM5V

PW SPK3.2V

PW LENS3.2V

PW SD3.2V

PW 3.2V

PW GYRO3V

PW REG3V

PW LENS1.5V

PW MOS1.8V

PW ANA1.8V

PW REG1.8V

PW MOS1.2V

PW DDR1.8V

PW DDR1.2V

PW ANA1.0V

PW VID1.0V

PW DDR1.0V

PW STNOREG
(To PHOTO LIGHT DRV. P.C.B.)

DDR POW ON H
(From IC3412-6)

PW WIFI3.2V

PW WIFI3V

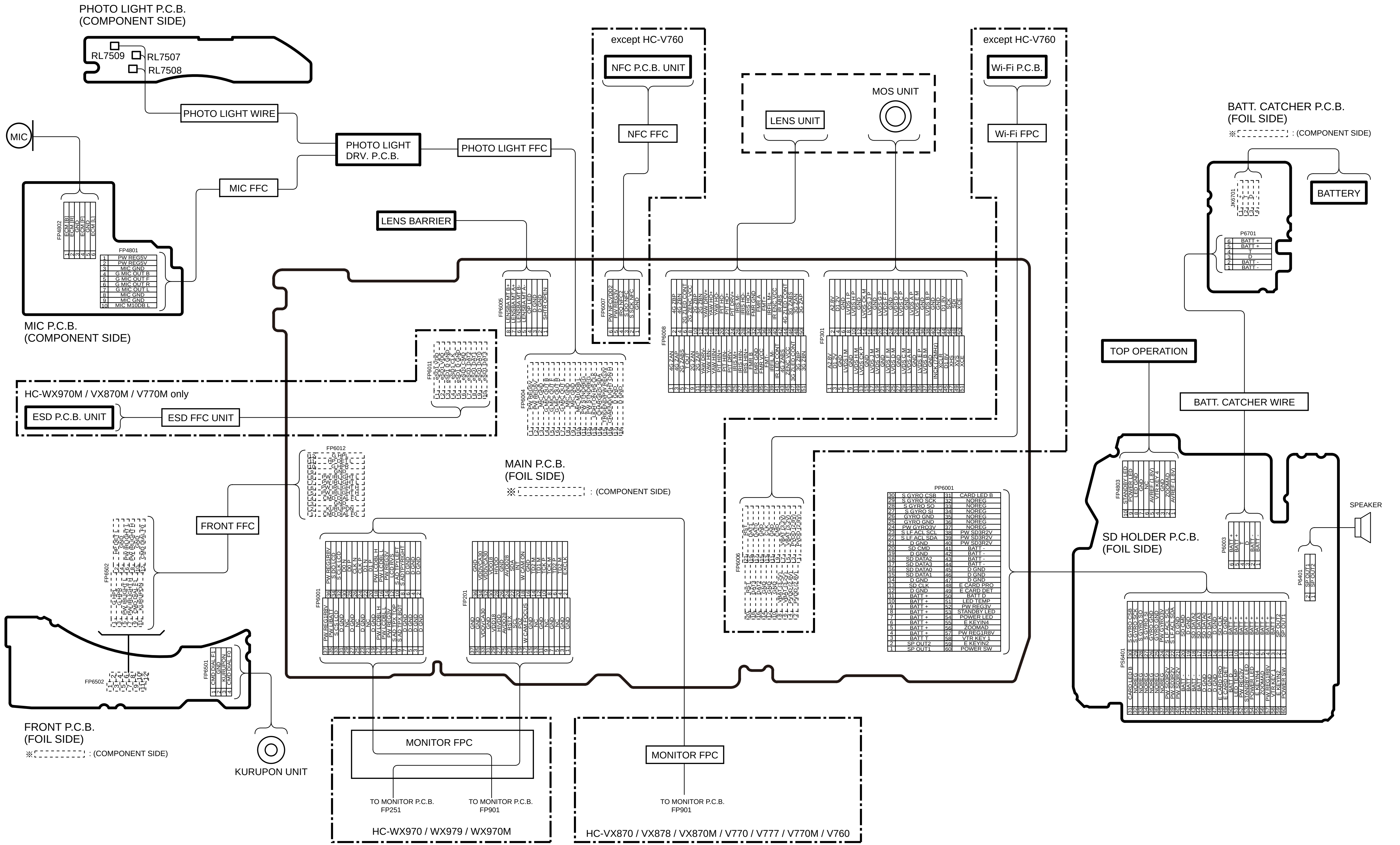
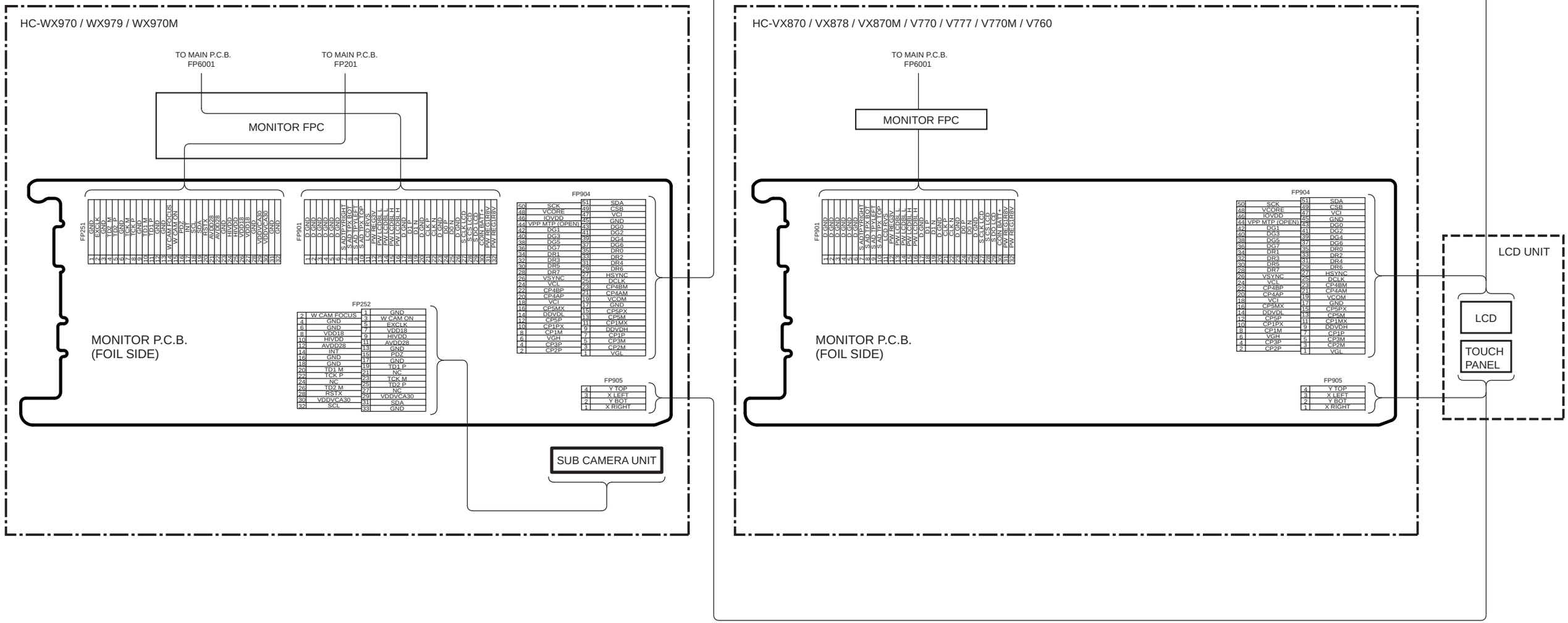
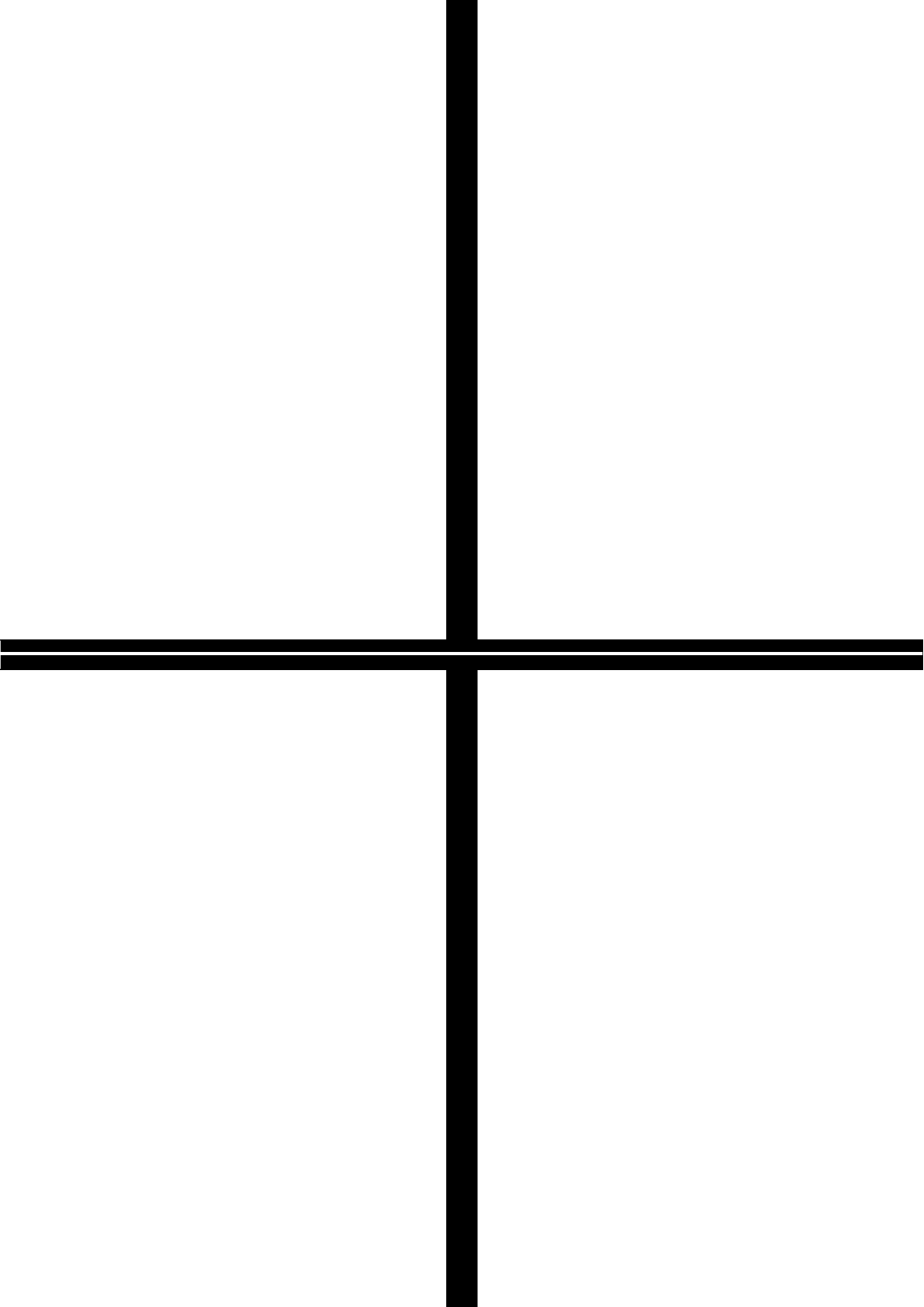


PHOTO LIGHT P.C.B.
(COMPONENT SIDE)
RL7509
RL7507
RL7508
PHOTO LIGHT WIRE
MIC
PHOTO LIGHT
DRV. P.C.B.
PHOTO LIGHT FFC
MIC FFC
FP4802
FP4801
MIC P.C.B.
(COMPONENT SIDE)
LENS BARRIER
except HC-V760
NFC P.C.B. UNIT
NFC FFC
LENS UNIT
MOS UNIT
except HC-V760
Wi-Fi P.C.B.
Wi-Fi FPC
BATT. CATCHER P.C.B.
(FOIL SIDE)
※ : (COMPONENT SIDE)
JK6701
P6701
BATTERY
FP6005
FP6007
FP6008
FP301
FP6011
FP6004
HC-WX970M / VX870M / V770M only
ESD P.C.B. UNIT
ESD FFC UNIT
TOP OPERATION
BATT. CATCHER WIRE
FP6012
MAIN P.C.B.
(FOIL SIDE)
※ : (COMPONENT SIDE)
FRONT FFC
FP6502
FP6001
FP201
FP6006
PP6001
FP4803
P6003
SD HOLDER P.C.B.
(FOIL SIDE)
SPEAKER
P6401
PS6401
FP6501
FRONT P.C.B.
(FOIL SIDE)
※ : (COMPONENT SIDE)
KURUPON UNIT
MONITOR FPC
TO MONITOR P.C.B.
FP251
TO MONITOR P.C.B.
FP901
HC-WX970 / WX979 / WX970M
MONITOR FPC
TO MONITOR P.C.B.
FP901
HC-VX870 / VX878 / VX870M / V770 / V777 / V770M / V760


HC-WX970 / WX979 / WX970M
TO MAIN P.C.B.
FP6001
TO MAIN P.C.B.
FP201
MONITOR FPC
MONITOR P.C.B.
(FOIL SIDE)
FP251
GND
EXCLK
VDD18
TD2_M
TD2_P
GND
TCK M
TCK P
GND
TD1 M
TD1 P
GND
NC
W CAM FOCUS
W CAM ON
INT
SDA
SCL
RSTX
AVDD28
AVDD28
GND
HIVDD
HIVDD
VDD18
GND
VDDVCA30
VDDVCA30
GND
GND
FP901
D GND
D GND
D GND
D GND
D GND
S AD TPX RIGHT
S AD TPX EXIT
S AD TPX TOP
S AD TPX LEFT
LCD RVS
PW REG5V
PW LCDBL H
PW LCDBL L
PW REG18V
D GND
D1 P
D1 N
D GND
CLK P
CLK N
D GND
D0 P
D0 N
D GND
S CS LCD
S CLK LCD
S DATA LCD
COIN BATT+
PW REG18V
PW REG18V
FP904
50 SCK
48 VCORE
46 IOVDD
44 VPP MTP (OPEN)
42 DG1
40 DG3
38 DG5
36 DG7
34 DR1
32 DR3
30 DR5
28 DR7
26 VSYNC
24 VCL
22 CP4BP
20 CP4AP
18 VCI
16 CP5MX
14 DDVDL
12 CP5P
10 CP1PX
8 CP1M
6 VGH
4 CP3P
2 CP2P
51 SDA
49 CSB
47 VCI
45 GND
43 DG0
41 DG2
39 DG4
37 DG6
35 DR0
33 DR2
31 DR4
29 DR6
27 HSYNC
25 DCLK
23 CP4BM
21 CP4AM
19 VCOM
17 GND
15 CP5PX
13 CP5M
11 CP1MX
9 DDVDH
7 CP1P
5 CP3M
3 CP2M
1 VGL
FP252
2 W CAM FOCUS
4 GND
6 GND
8 VDD18
10 HIVDD
12 AVDD28
14 INT
16 GND
18 GND
20 TD1 M
22 TCK P
24 NC
26 TD2 M
28 RSTX
30 VDDVCA30
32 SCL
1 GND
3 W CAM ON
5 EXCLK
7 VDD18
9 HIVDD
11 AVDD28
13 GND
15 PDZ
17 GND
19 TD1 P
21 NC
23 TCK M
25 TD2 P
27 NC
29 VDDVCA30
31 SDA
33 GND
FP905
4 Y TOP
3 X LEFT
2 Y BOT
1 X RIGHT
SUB CAMERA UNIT
HC-VX870 / VX878 / VX870M / V770 / V777 / V770M / V760
TO MAIN P.C.B.
FP6001
MONITOR FPC
MONITOR P.C.B.
(FOIL SIDE)
FP901
D GND
D GND
D GND
D GND
D GND
S AD TPX RIGHT
S AD TPX EXIT
S AD TPX TOP
S AD TPX LEFT
LCD RVS
PW REG5V
PW LCDBL H
PW LCDBL L
PW REG18V
D GND
D1 P
D1 N
D GND
CLK P
CLK N
D GND
D0 P
D0 N
D GND
S CS LCD
S CLK LCD
S DATA LCD
COIN BATT+
PW REG18V
PW REG18V
FP904
50 SCK
48 VCORE
46 IOVDD
44 VPP MTP (OPEN)
42 DG1
40 DG3
38 DG5
36 DG7
34 DR1
32 DR3
30 DR5
28 DR7
26 VSYNC
24 VCL
22 CP4BP
20 CP4AP
18 VCI
16 CP5MX
14 DDVDL
12 CP5P
10 CP1PX
8 CP1M
6 VGH
4 CP3P
2 CP2P
51 SDA
49 CSB
47 VCI
45 GND
43 DG0
41 DG2
39 DG4
37 DG6
35 DR0
33 DR2
31 DR4
29 DR6
27 HSYNC
25 DCLK
23 CP4BM
21 CP4AM
19 VCOM
17 GND
15 CP5PX
13 CP5M
11 CP1MX
9 DDVDH
7 CP1P
5 CP3M
3 CP2M
1 VGL
FP905
4 Y TOP
3 X LEFT
2 Y BOT
1 X RIGHT
LCD UNIT
LCD
TOUCH PANEL



Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 Schematic Diagram Note

IMPORTANT SAFETY NOTICE:

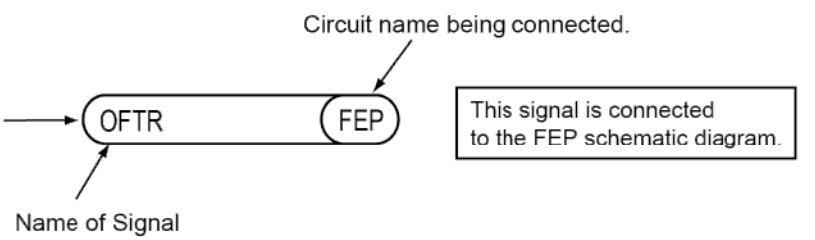
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY THE SAME TYPE.

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.

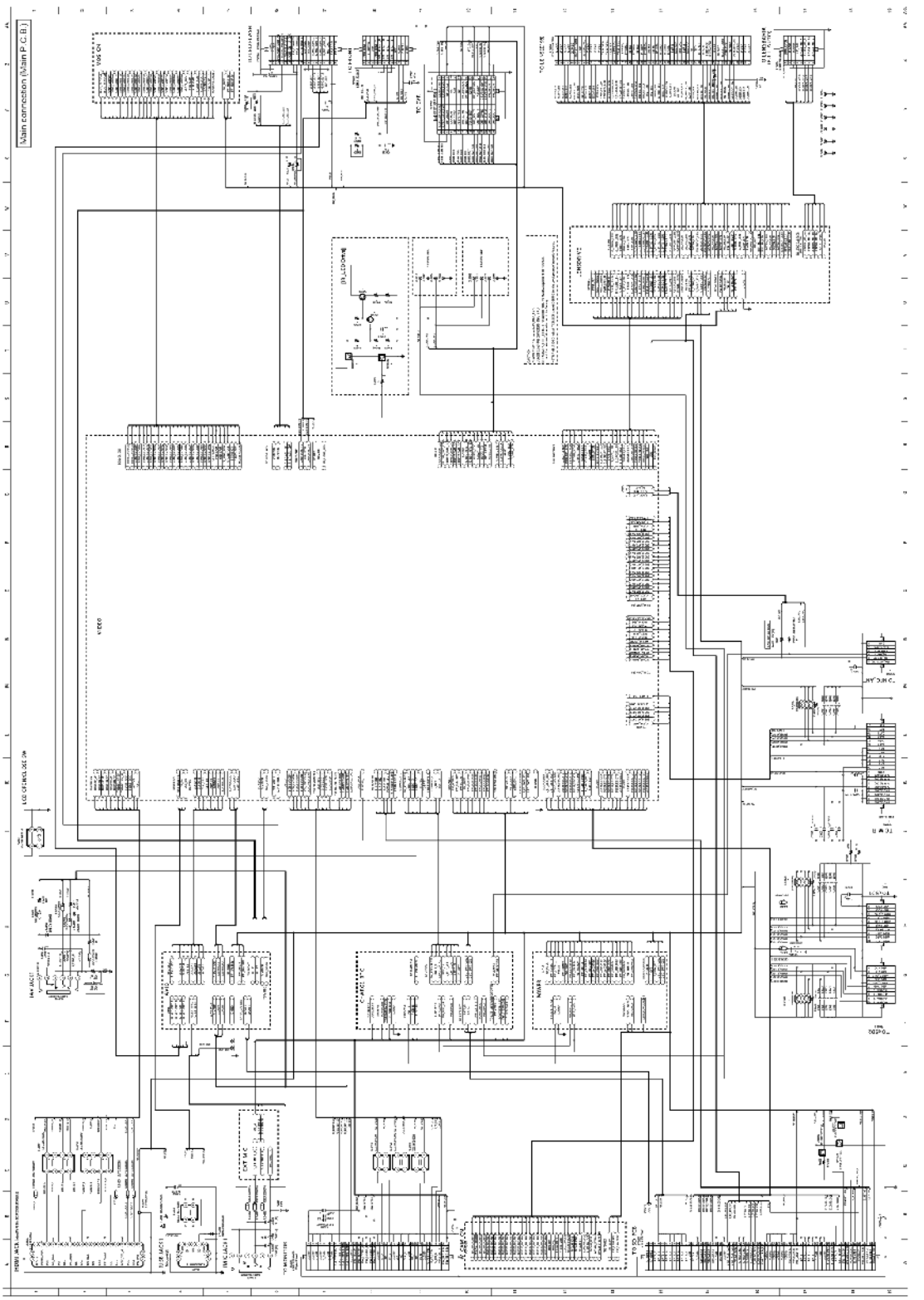
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 Parts List Note

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

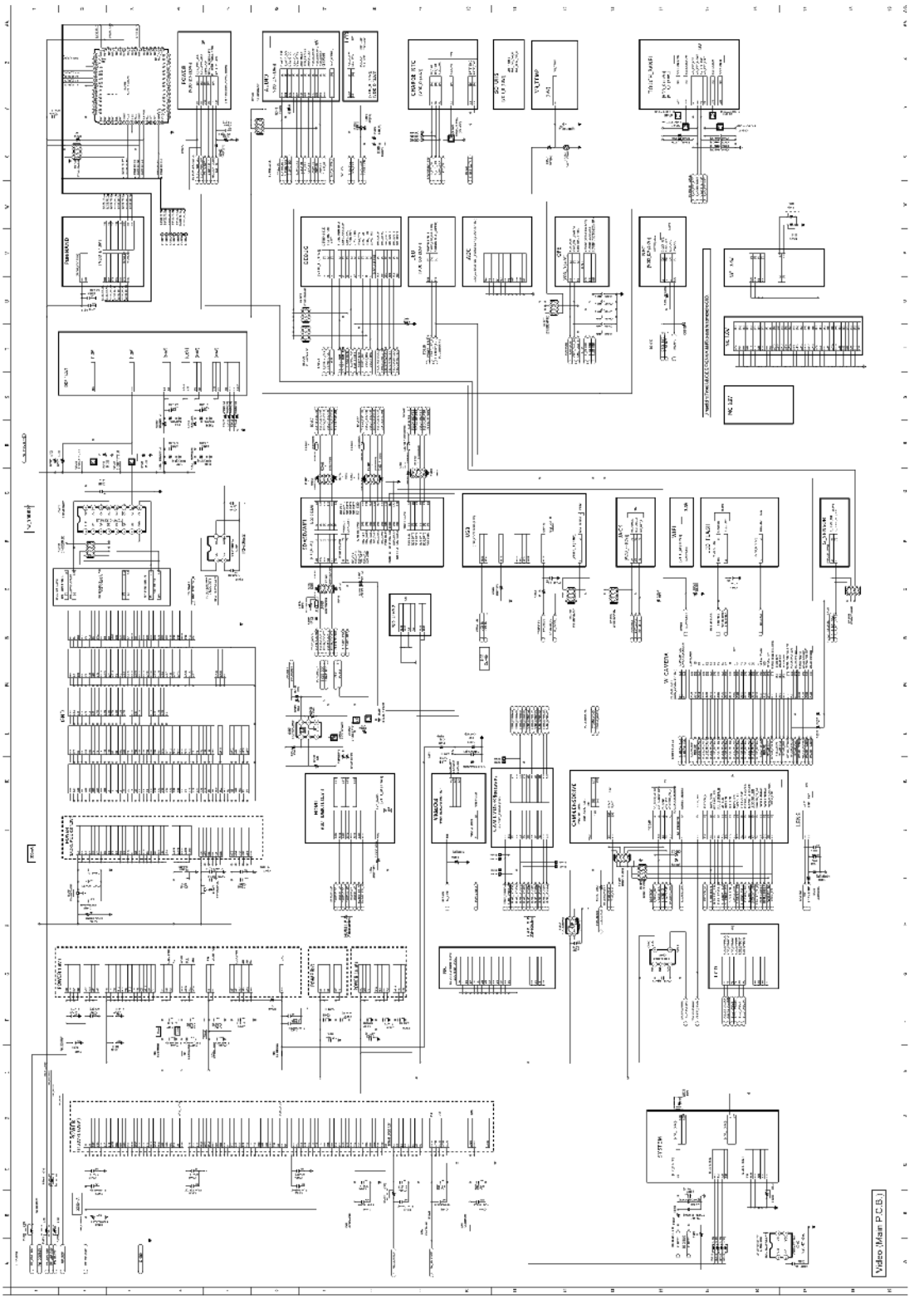
E.S.D. standards for Electrostatically Sensitive Devices, refer to PREVENTION OF ELECTROSTATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES) DEVICES section.
Definition of Parts supplier:

1. Parts marked with [SPC] in the remarks column are supplied from AVC-CSC-SPC. Others are supplied from PAVCJM.

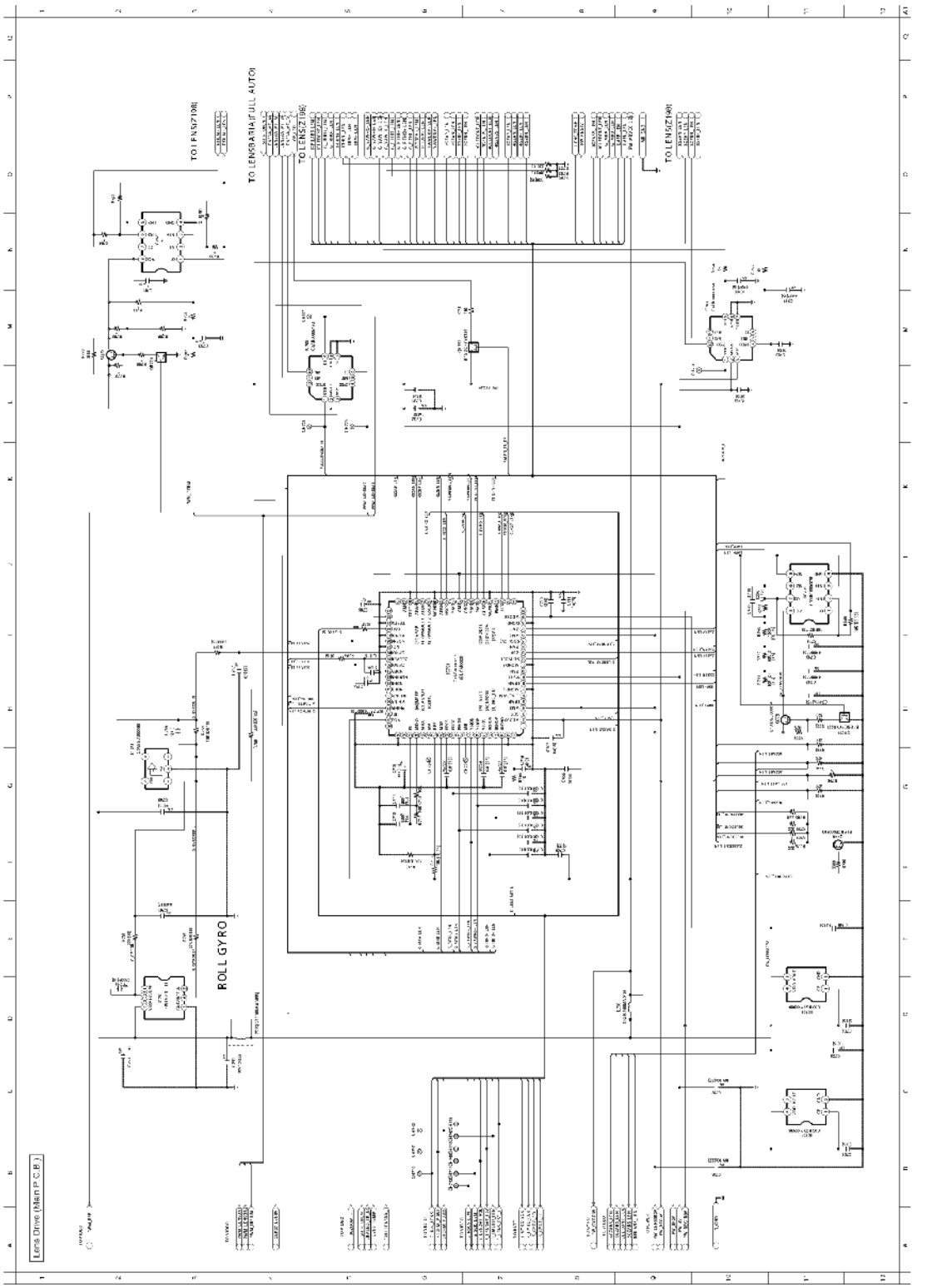
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 Main connection (Main P.C.B.)



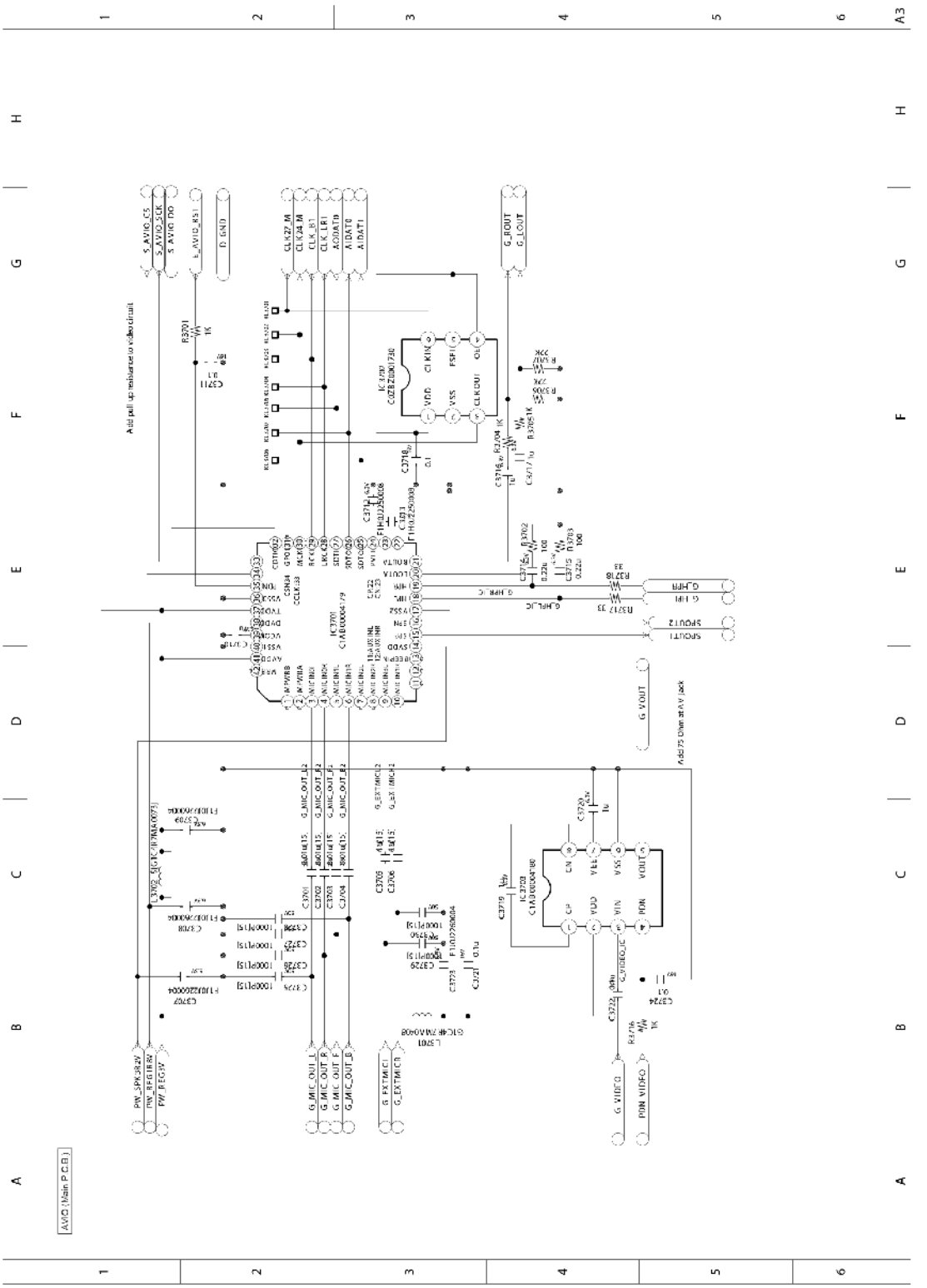
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 Video (Main P.C.B.)



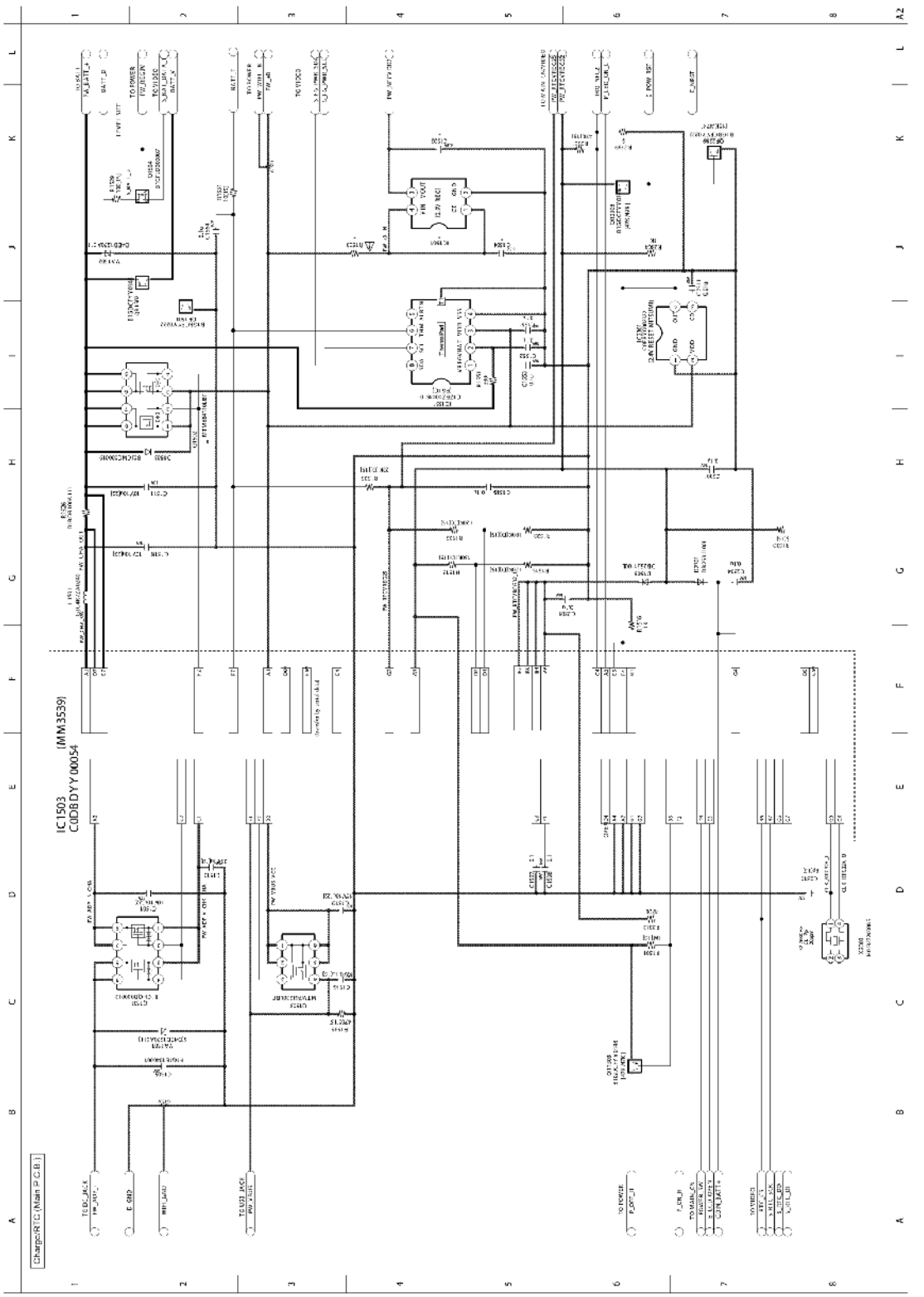
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 Lens Drive (Main P.C.B.)



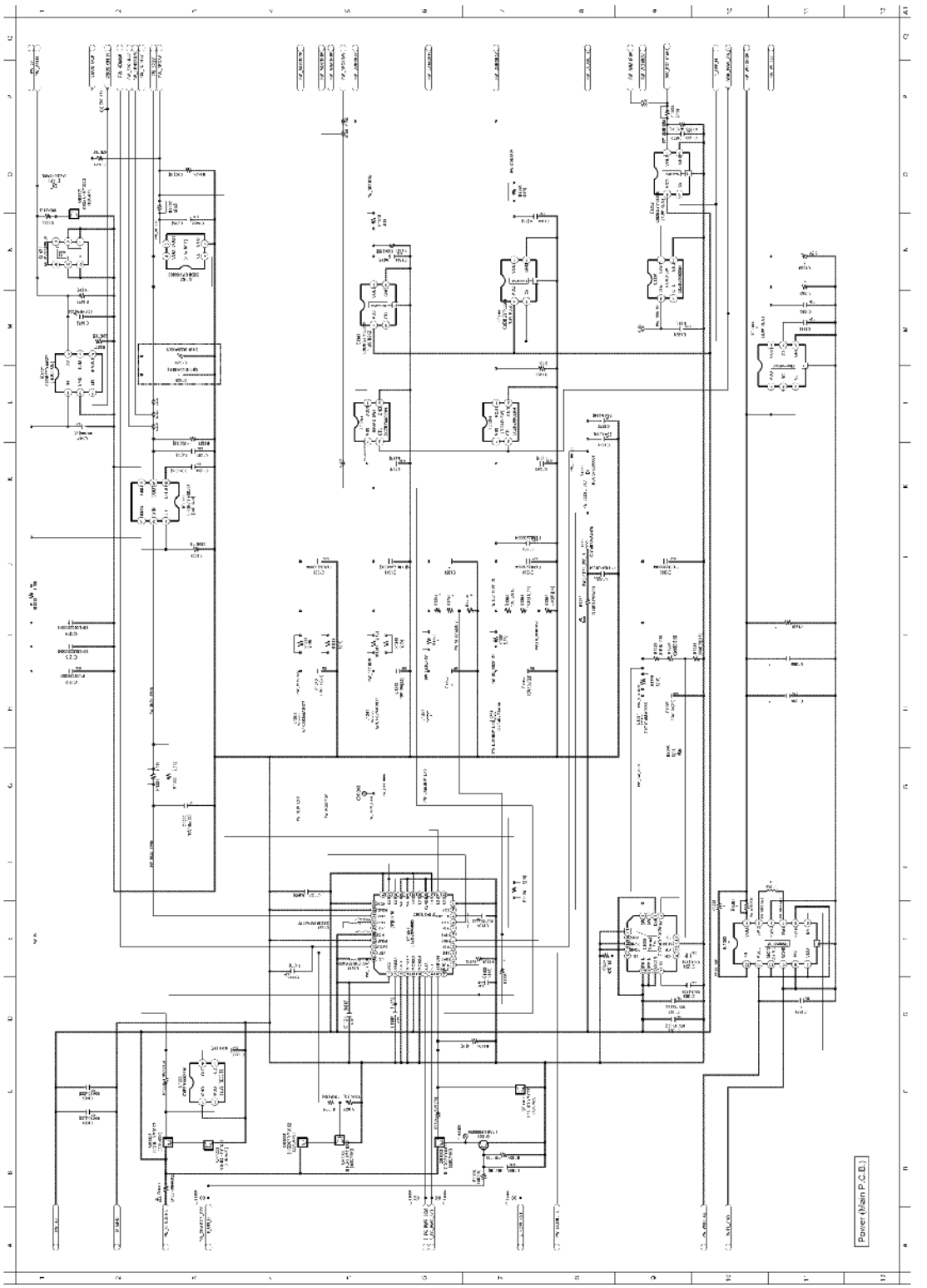
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 AVIO (Main P.C.B.)



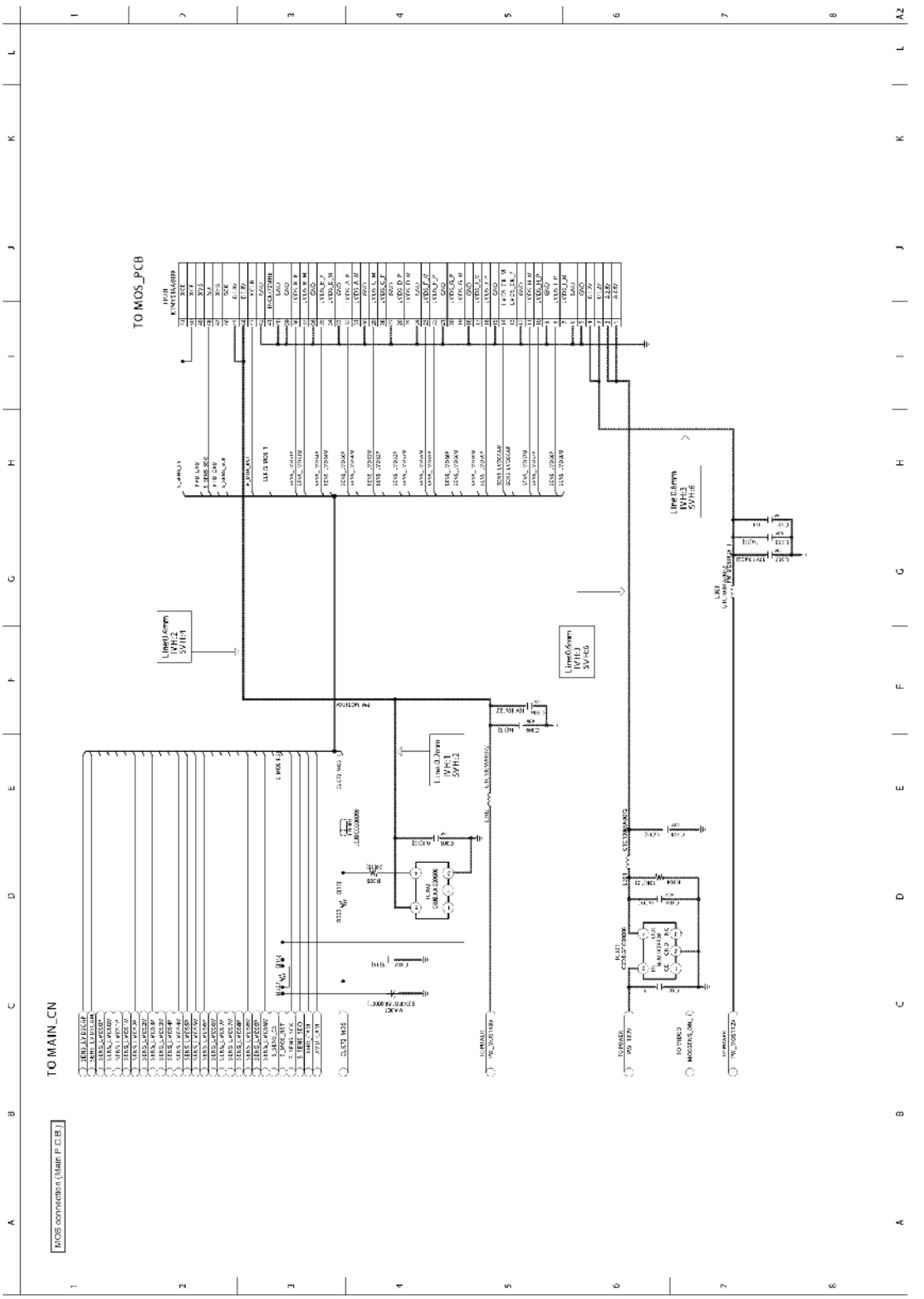
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 Charge/RTC (Main P.C.B.)



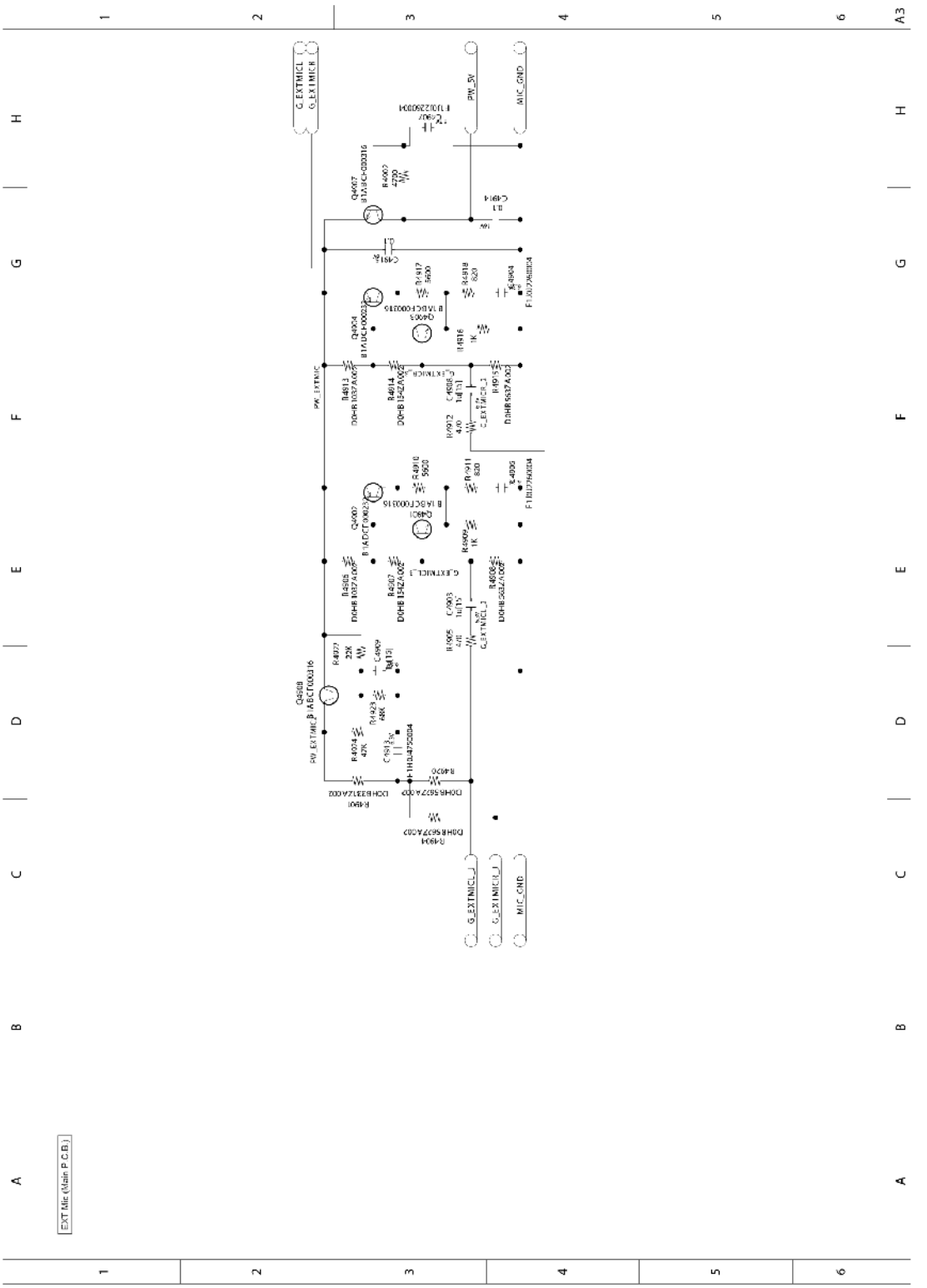
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 Power (Main P.C.B.)



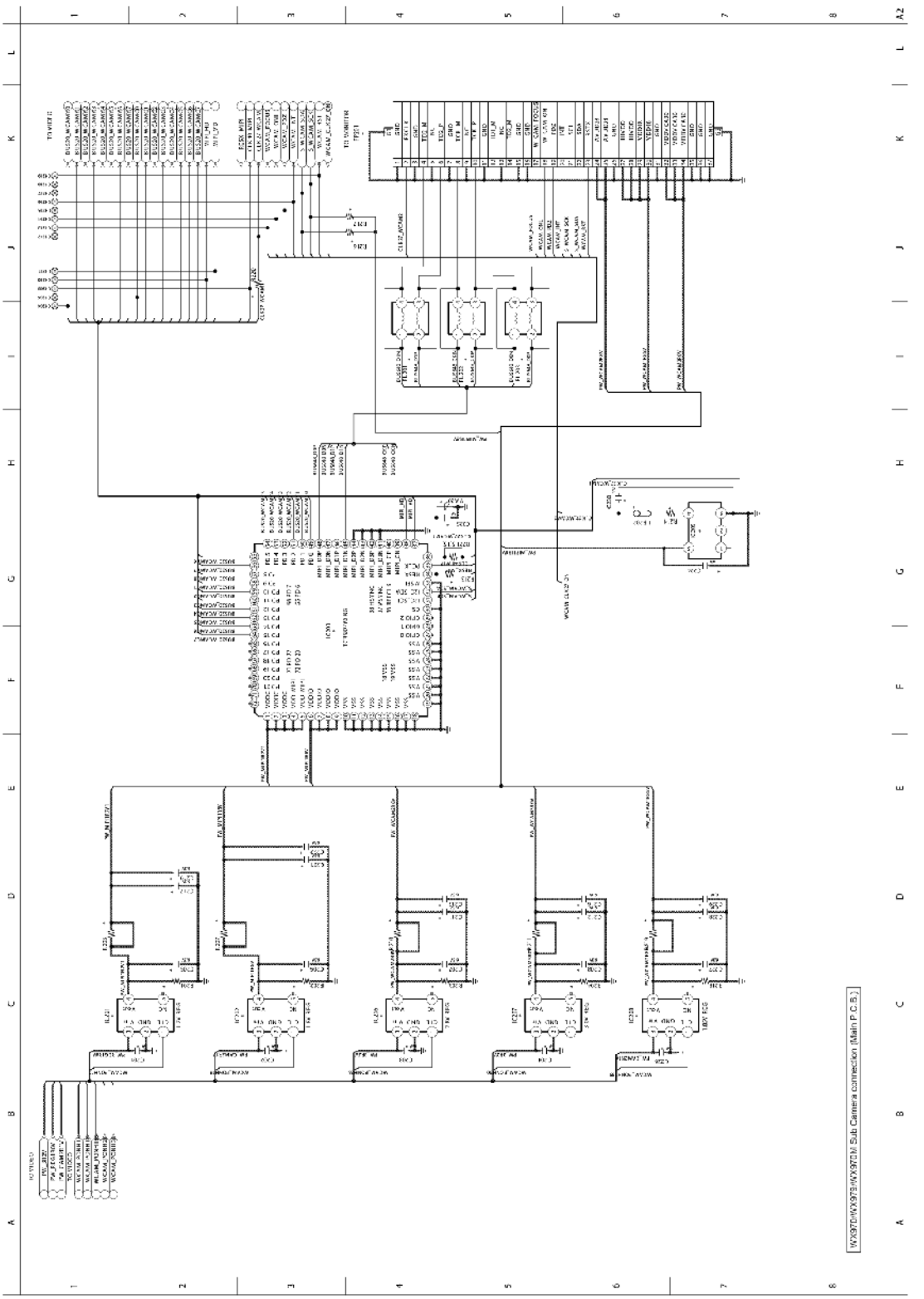
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 MOS connection (Main P.C.B.)



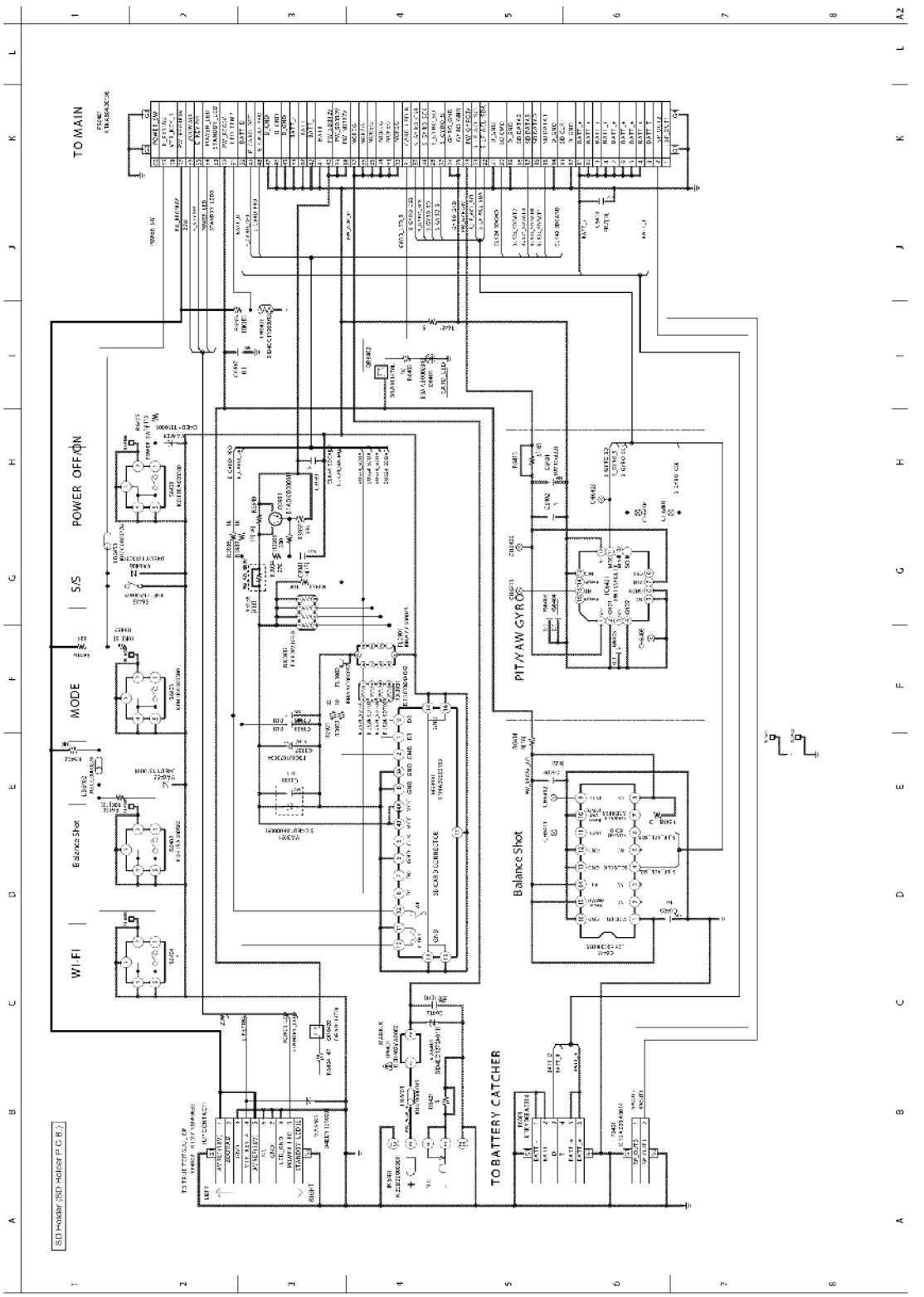
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 EXT Mic (Main P.C.B.)



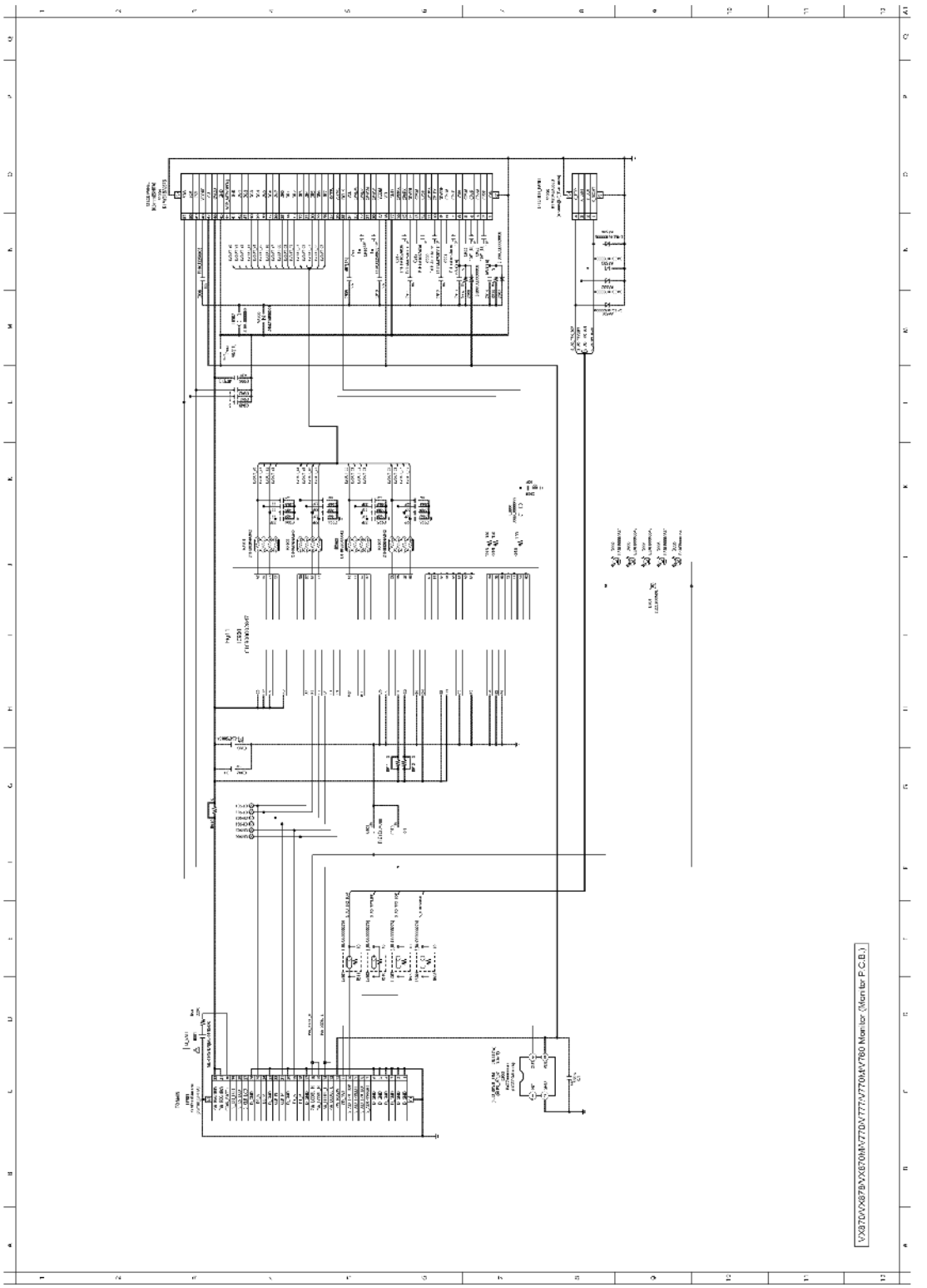
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 WX970/WX979/V
Sub Camera connection (Main P.C.B.)



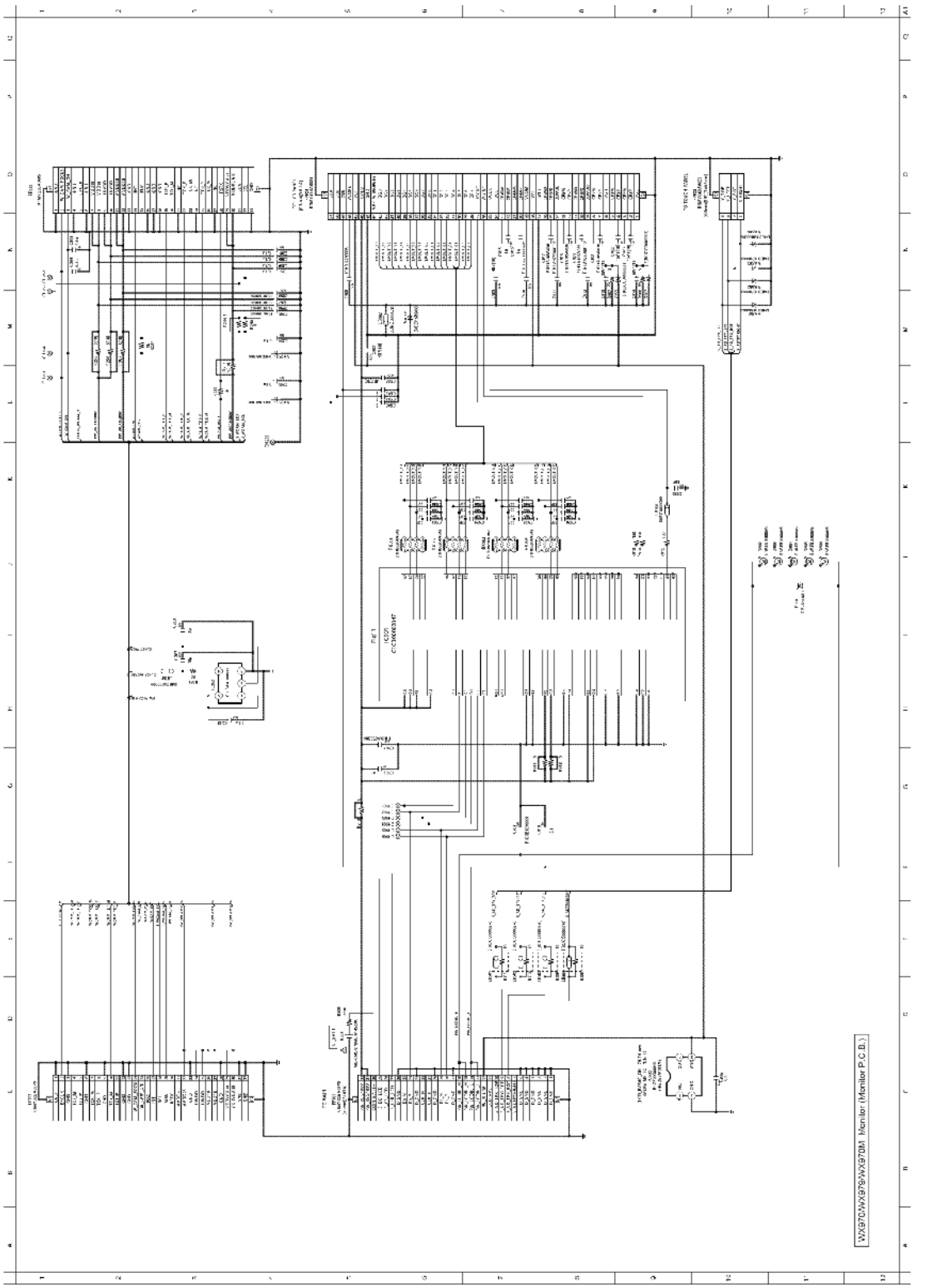
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 SD Holder (SD Holder P.C.B.)



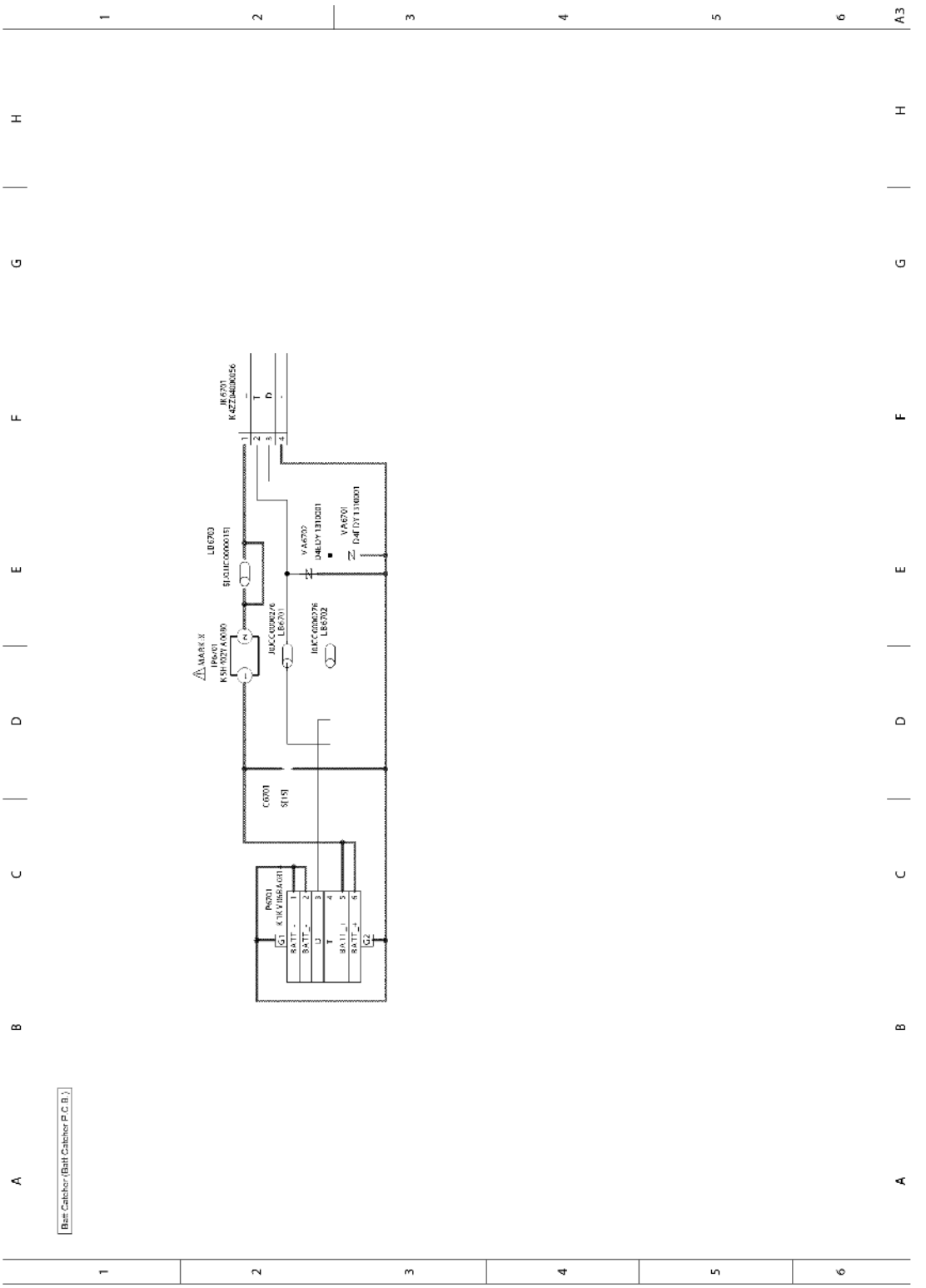
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 VX870/VX878/V
Monitor (Monitor P.C.B.)



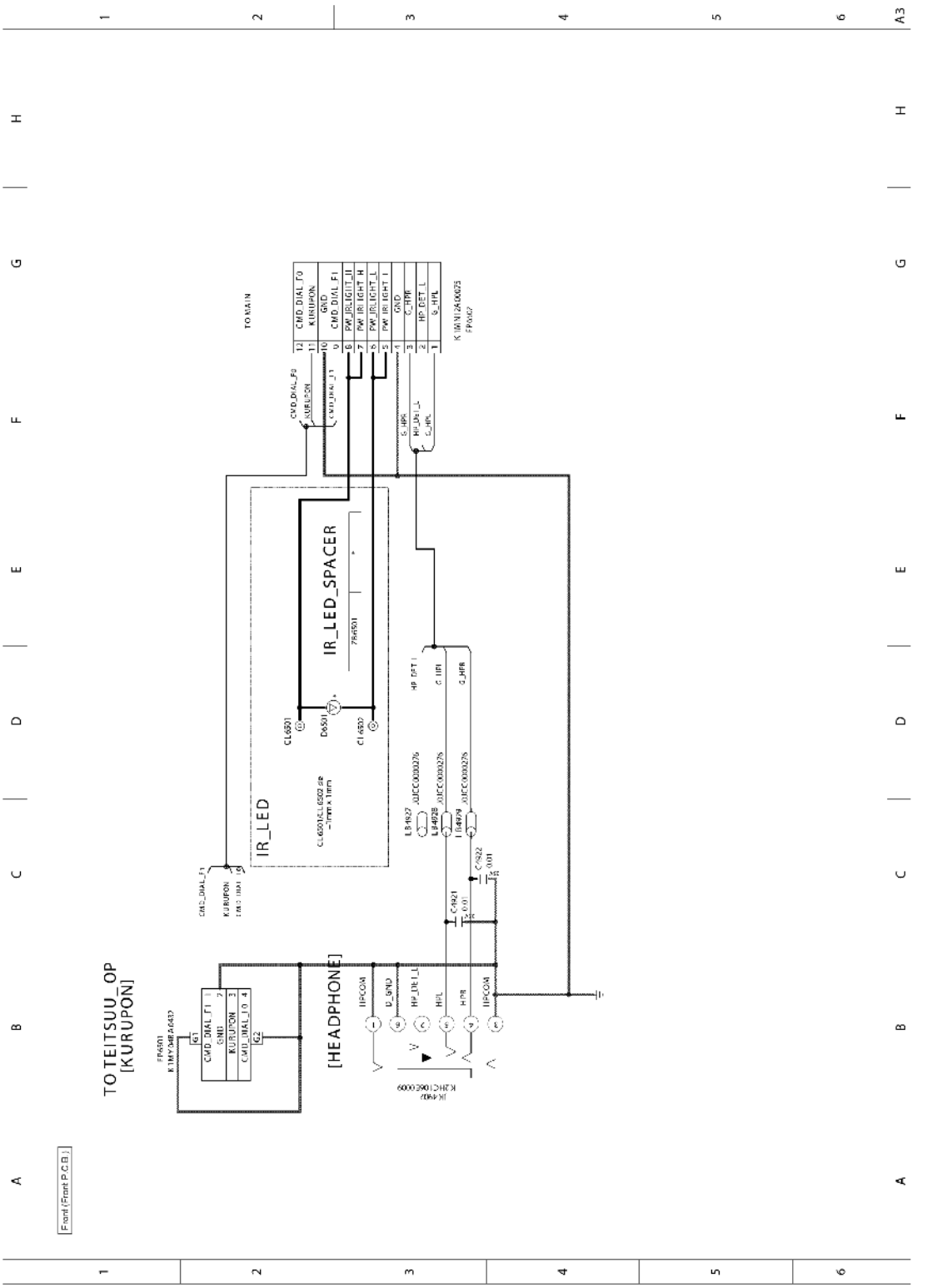
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 WX970/WX979/
Monitor (Monitor P.C.B.)



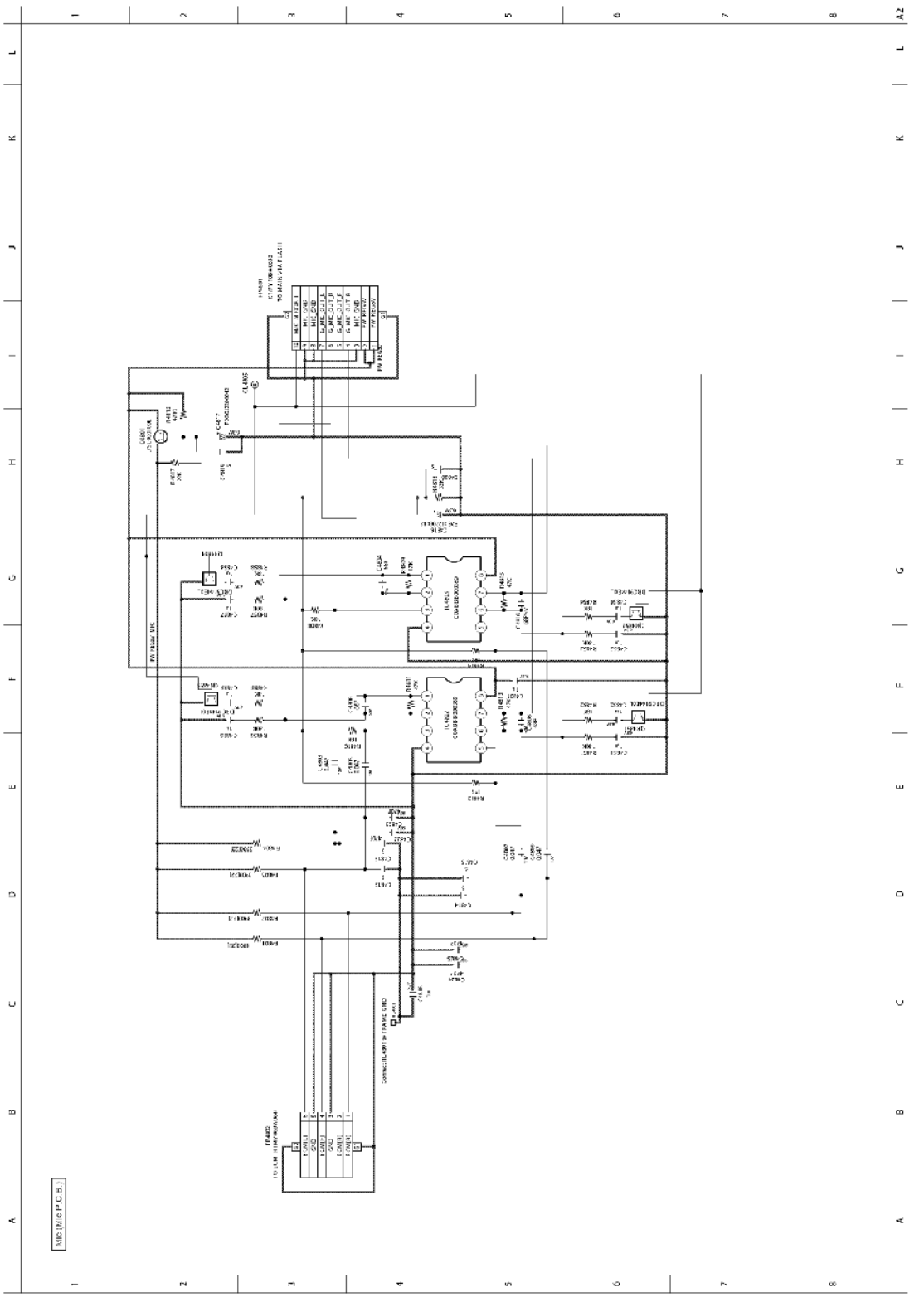
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 Batt Catcher (Batt Catcher P.C.B.)



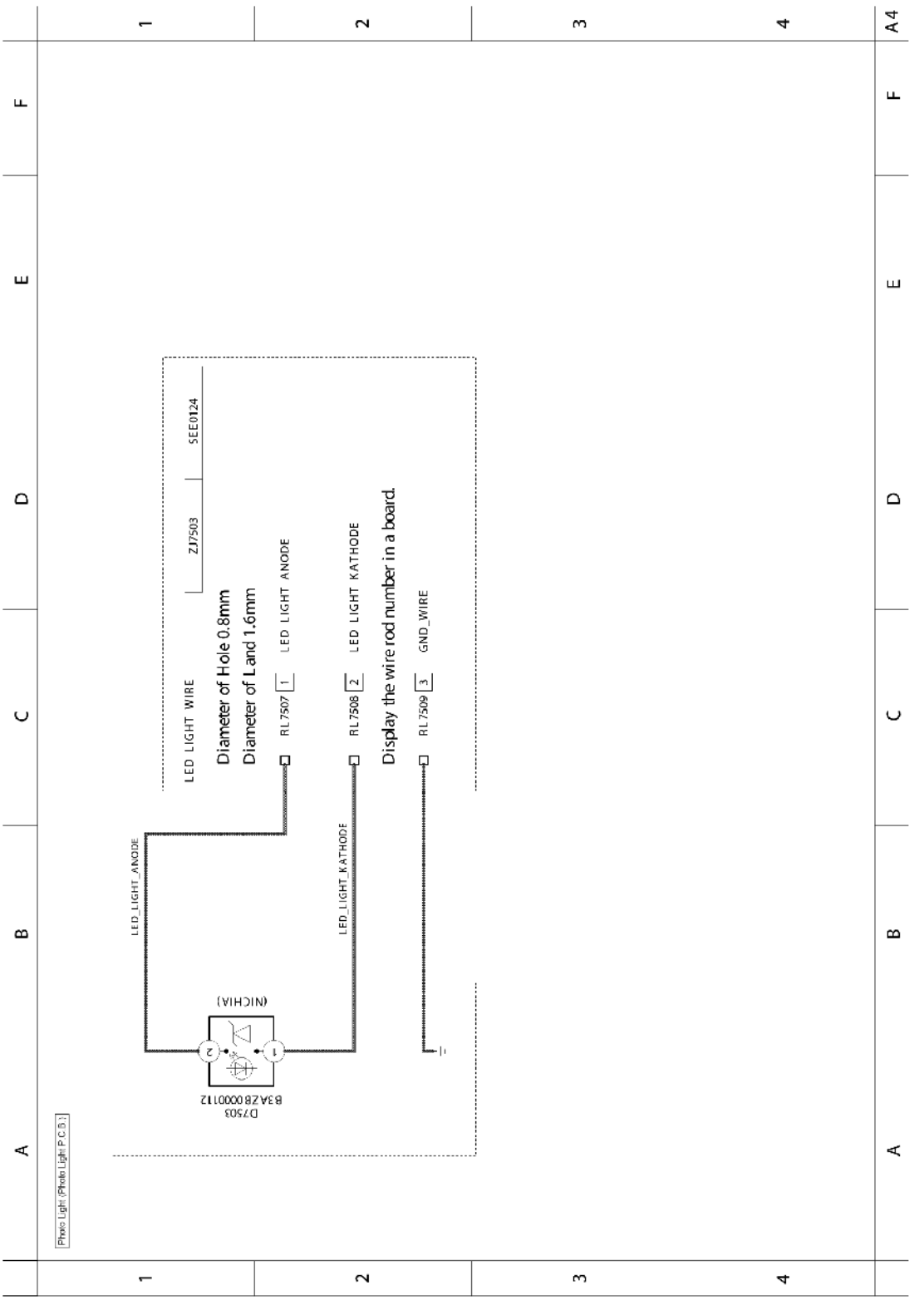
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 Front (Front P.C.B.)



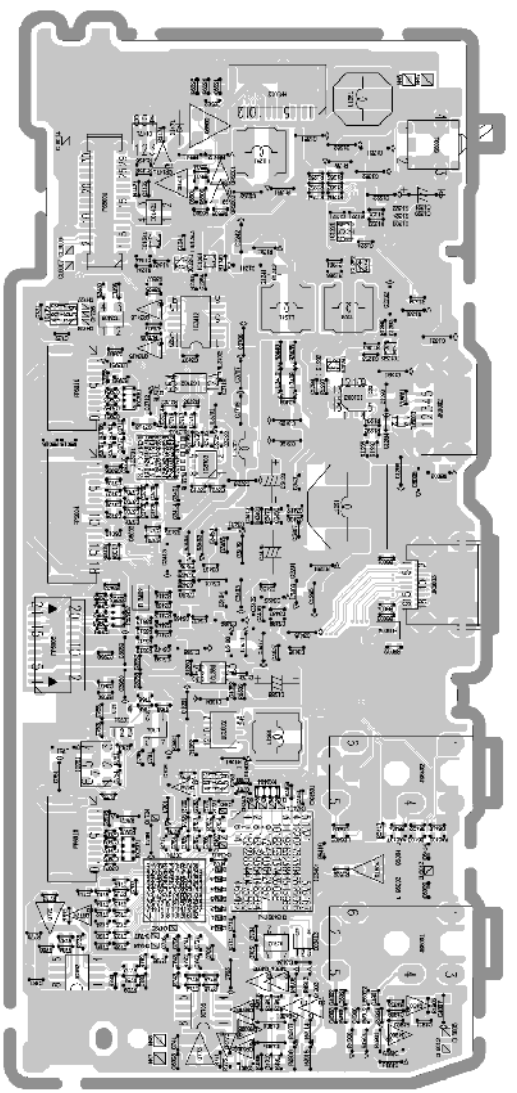
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 Mic (Mic P.C.B.)



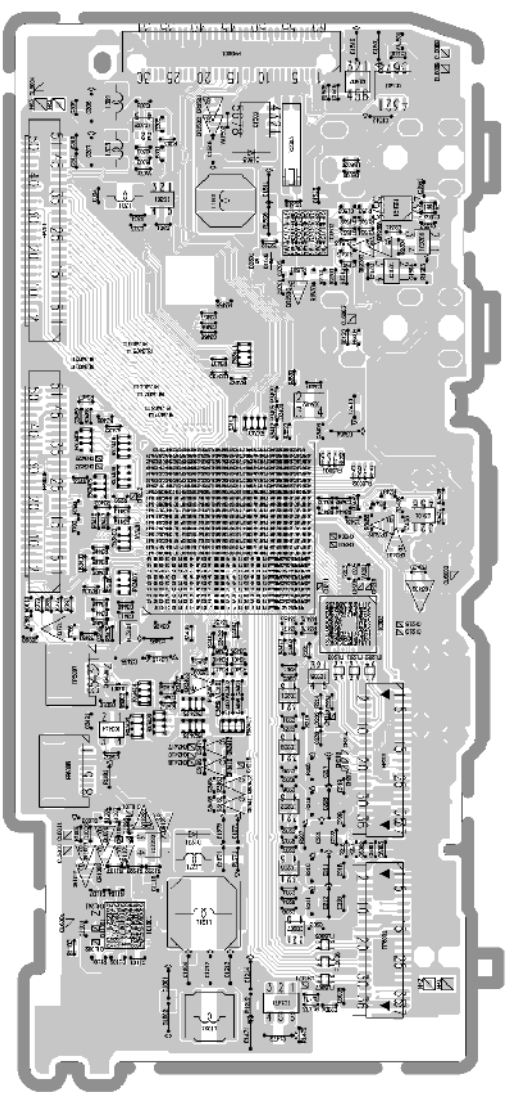
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 Photo Light (Photo Light P.C.B.)



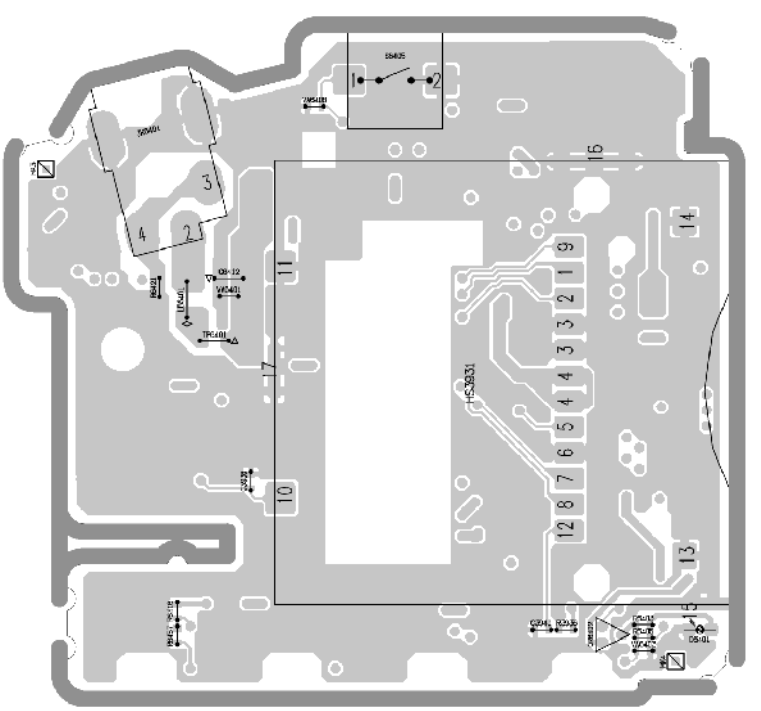
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 Main P.C.B. (Component Side)



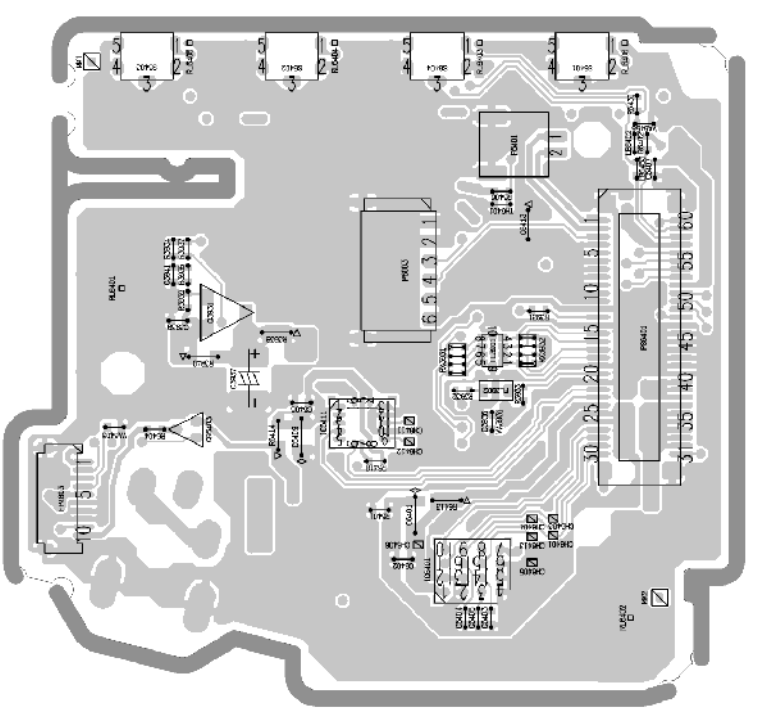
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 Main P.C.B. (Foil Side)



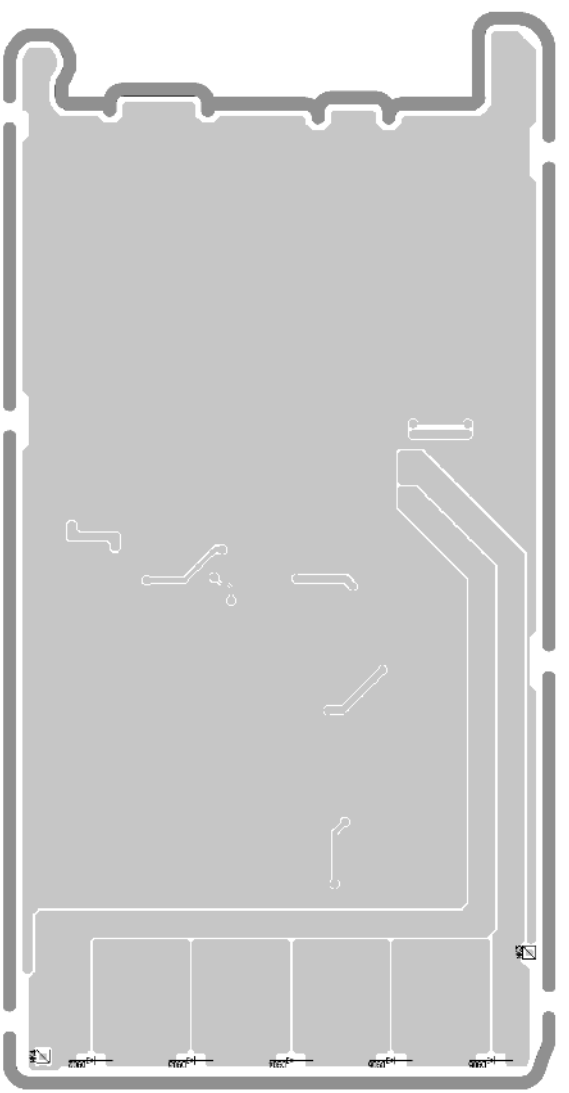
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 SD Holder P.C.B.(Component Side)



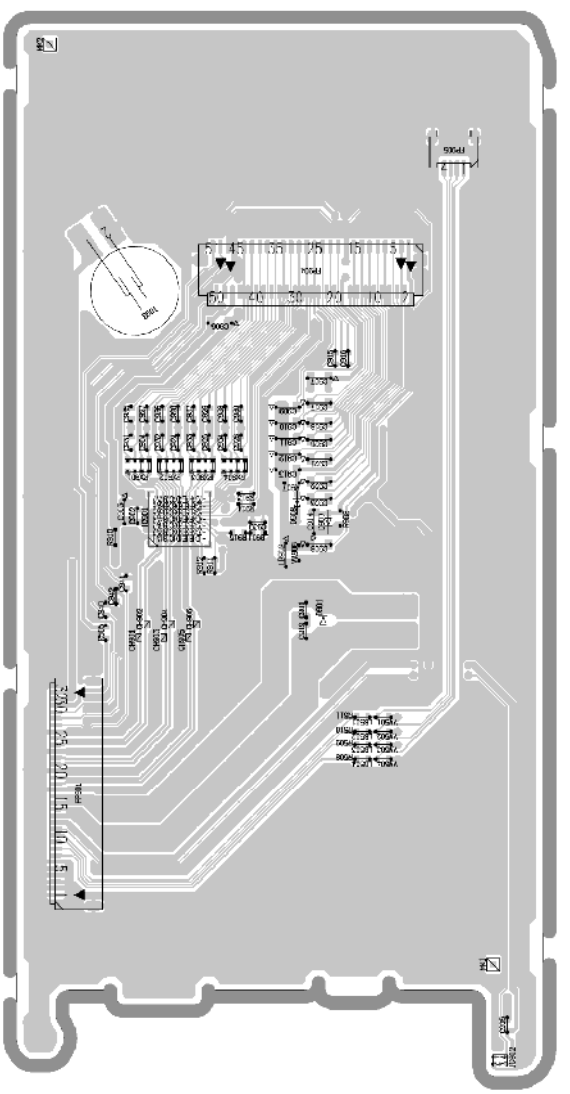
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 SD Holder P.C.B.(Foil Side)



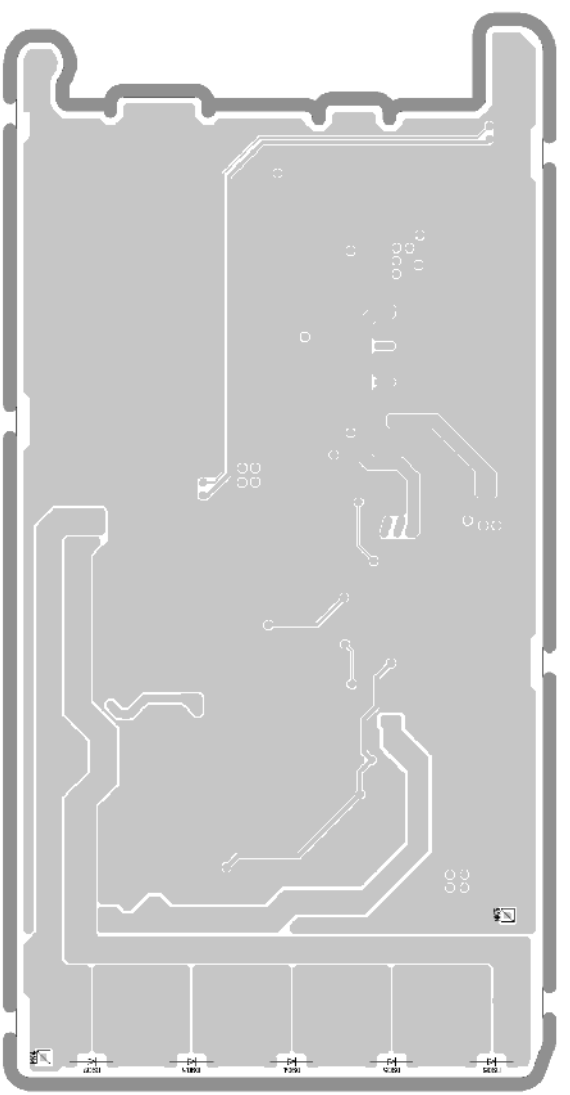
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 VX870/VX878/V
Monitor P.C.B.(Component Side)



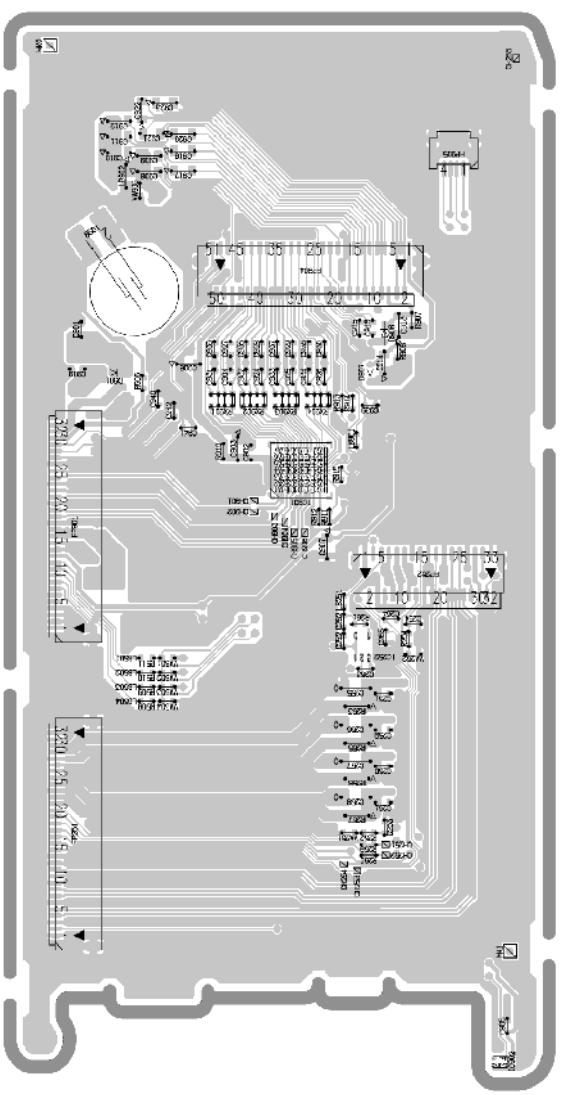
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 VX870/VX878/V
Monitor P.C.B.(Foil Side)



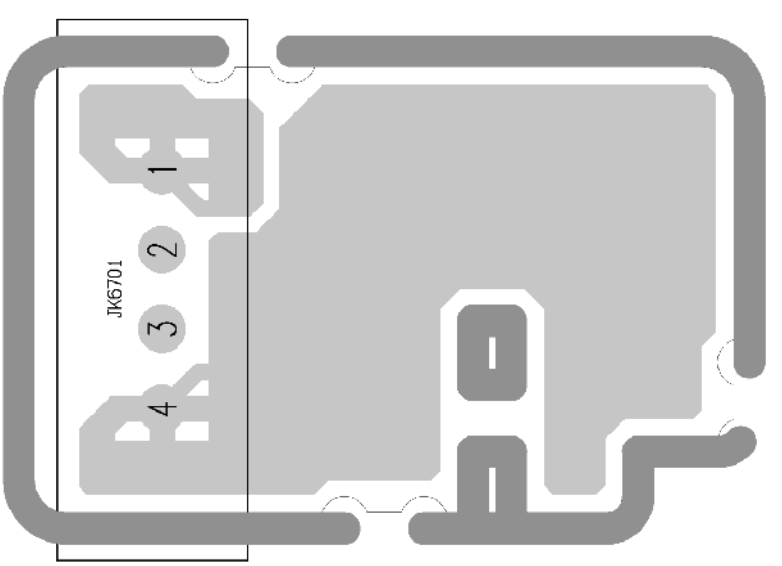
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 WX970/WX979/V
Monitor P.C.B.(Component Side)



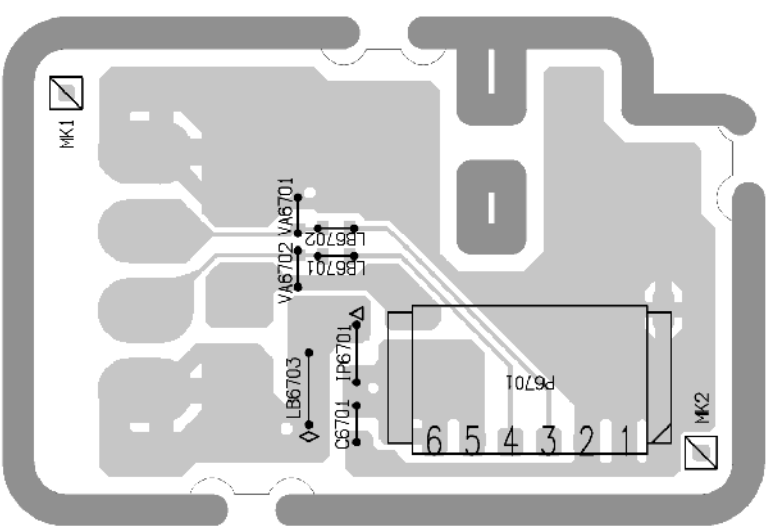
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 WX970/WX979/V
Monitor P.C.B.(Foil Side)



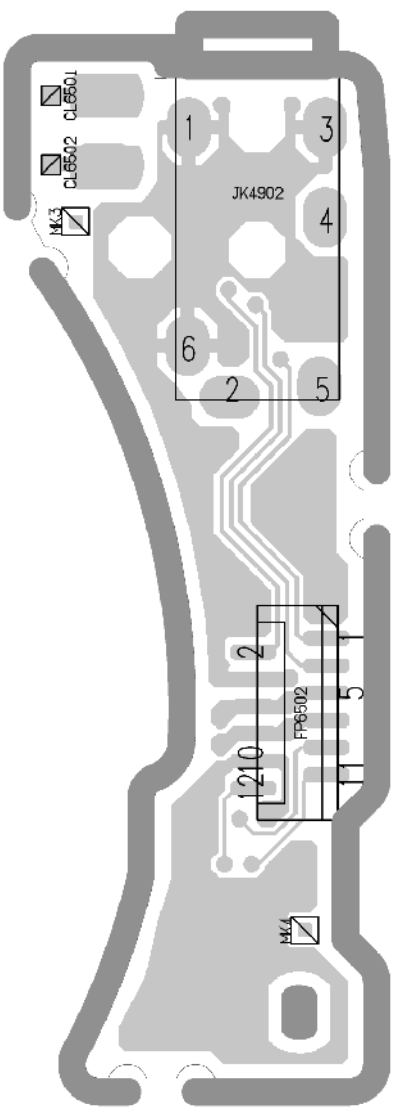
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 Battery Catcher P.C.B.(Component Side)



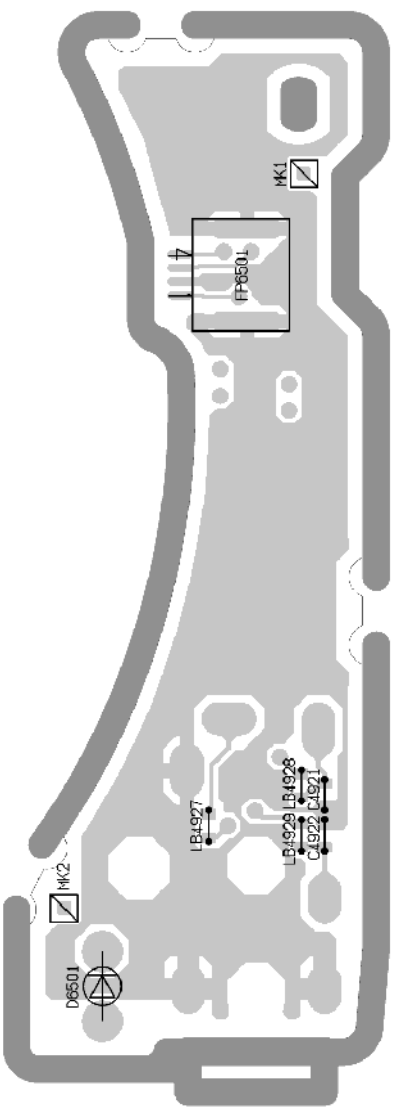
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 Battery Catcher P.C.B.(Foil Side)



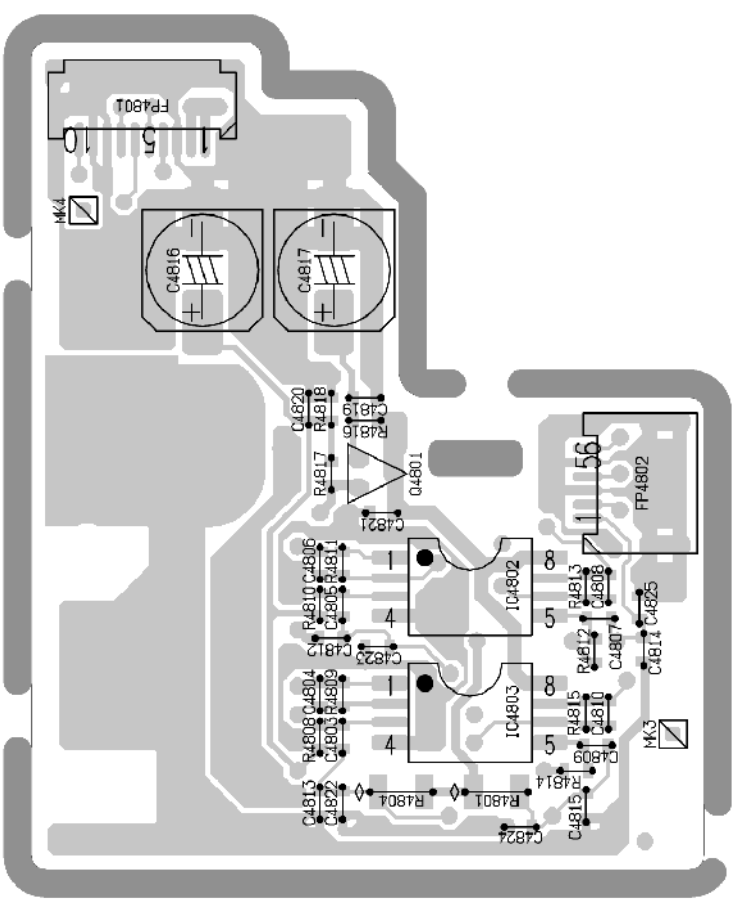
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 Front P.C.B. (Component Side)



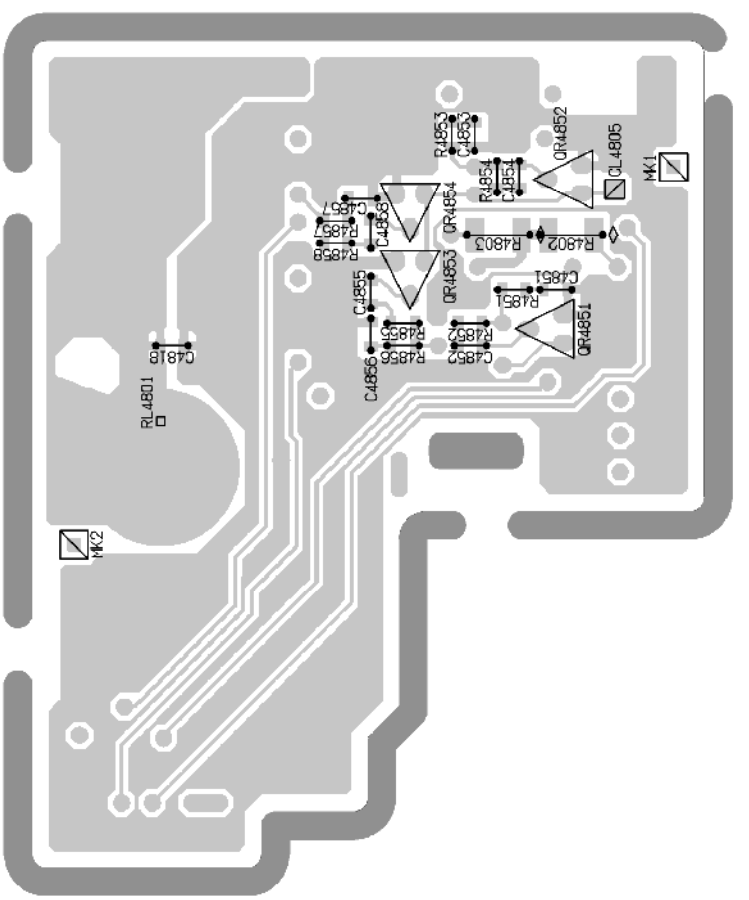
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 Front P.C.B. (Foil Side)



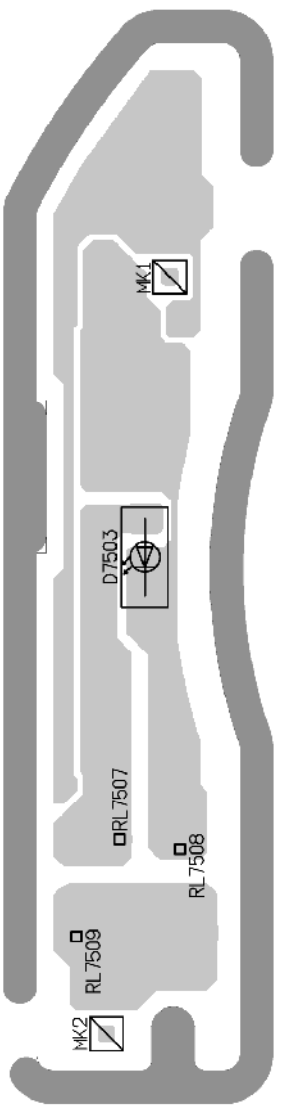
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 Mic P.C.B. (Component Side)



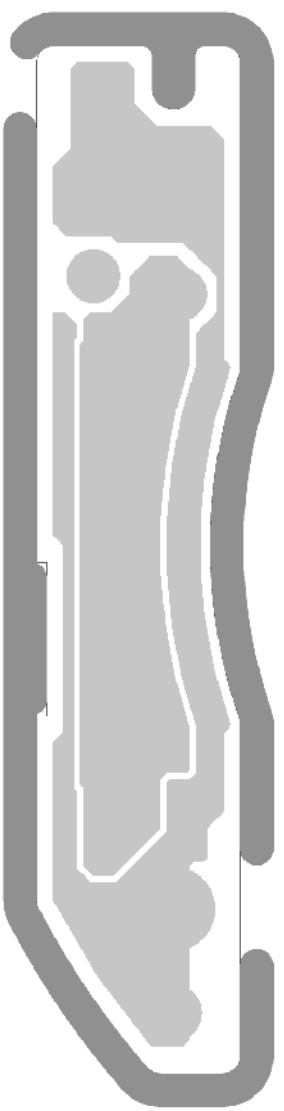
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 Mic P.C.B. (Foil Side)



Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 Photo Light P.C.B.(Component Side)



Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 Photo Light P.C.B.(Foil Side)



Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	⚠	B501	ML-614S/DN	BUTTON BATTERY	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C201	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	(WX970,WX979,WX970M)
		C202	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	(WX970,WX979,WX970M)
		C203	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	(WX970,WX979,WX970M)
		C204	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	(WX970,WX979,WX970M)
		C205	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	(WX970,WX979,WX970M)
		C206	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	(WX970,WX979,WX970M)
		C207	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	(WX970,WX979,WX970M)
		C208	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	(WX970,WX979,WX970M)
		C211	F1J0J1060009	C.CAPACITOR CH 6.3V 10U	1	(WX970,WX979,WX970M)
		C212	F1J0J1060009	C.CAPACITOR CH 6.3V 10U	1	(WX970,WX979,WX970M)
		C215	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	(WX970,WX979,WX970M)
		C216	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	(WX970,WX979,WX970M)
		C217	F1J0J1060009	C.CAPACITOR CH 6.3V 10U	1	(WX970,WX979,WX970M)
		C219	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	(WX970,WX979,WX970M)
		C221	F1J0J1060009	C.CAPACITOR CH 6.3V 10U	1	(WX970,WX979,WX970M)
		C222	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	(WX970,WX979,WX970M)
		C224	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	(WX970,WX979,WX970M)
		C225	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	(WX970,WX979,WX970M)
		C226	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	(WX970,WX979,WX970M)
		C227	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	(WX970,WX979,WX970M)
		C228	F1J0J1060009	C.CAPACITOR CH 6.3V 10U	1	(WX970,WX979,WX970M)
		C229	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	(WX970,WX979,WX970M)
		C230	F1G1H8R0A833	C.CAPACITOR CH 50V 8P	1	(WX970,WX979,WX970M)
		C251	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	(WX970,WX979,WX970M)
		C252	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	(WX970,WX979,WX970M)
		C253	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	(WX970,WX979,WX970M)
		C254	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	(WX970,WX979,WX970M)
		C255	F1J0J1060009	C.CAPACITOR CH 6.3V 10U	1	(WX970,WX979,WX970M)
		C256	F1J0J1060009	C.CAPACITOR CH 6.3V 10U	1	(WX970,WX979,WX970M)
		C257	F1J0J1060009	C.CAPACITOR CH 6.3V 10U	1	(WX970,WX979,WX970M)
		C258	F1J0J1060009	C.CAPACITOR CH 6.3V 10U	1	(WX970,WX979,WX970M)
		C259	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	(WX970,WX979,WX970M)
		C260	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	(WX970,WX979,WX970M)
		C261	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	(WX970,WX979,WX970M)
		C262	F1G1H100A833	C.CAPACITOR CH 50V 10P	1	(WX970,WX979,WX970M)
		C263	F1G1H3R0A831	C.CAPACITOR CH 50V 3P	1	(WX970,WX979,WX970M)
		C264	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	(WX970,WX979,WX970M)
		C265	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	(WX970,WX979,WX970M)
		C303	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C304	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C305	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C306	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C307	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C309	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C310	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C311	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C703	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C704	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C705	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C707	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C708	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C711	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C713	F1G1H101A834	C.CAPACITOR CH 50V 100P	1	
		C714	F1G1H101A834	C.CAPACITOR CH 50V 100P	1	
		C715	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C716	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	
		C719	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	
		C720	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	

		C721	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	
		C722	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	

Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760nbsp; Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C723	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	
		C724	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	
		C725	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	
		C726	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	
		C727	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	
		C732	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C741	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C742	F1G1H472A830	C.CAPACITOR CH 50V 4700P	1	
		C743	F1G1H472A830	C.CAPACITOR CH 50V 4700P	1	
		C751	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C753	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C754	F1G1H222A830	C.CAPACITOR CH 50V 2200P	1	
		C761	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	
		C765	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C767	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C780	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)
		C781	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)
		C784	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C785	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C786	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C787	F1G1H471A830	C.CAPACITOR CH 50V 470P	1	
		C788	F1G1H471A830	C.CAPACITOR CH 50V 470P	1	
		C901	F1G1E1040001	C.CAPACITOR CH 25V 0.1U	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C902	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C903	F1H0J4750004	C.CAPACITOR CH 6.3V 4.7U	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C904	F1G1H220A834	C.CAPACITOR CH 50V 22P	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C905	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C906	F1H0J4750004	C.CAPACITOR CH 6.3V 4.7U	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C907	F1H0J4750004	C.CAPACITOR CH 6.3V 4.7U	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C908	F1H0J2250008	C.CAPACITOR CH 6.3V 2.2U	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C909	F1H0J4750004	C.CAPACITOR CH 6.3V 4.7U	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C910	F1H0J2250008	C.CAPACITOR CH 6.3V 2.2U	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C911	F1H1A475A083	C.CAPACITOR CH 10V 4.7U	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C912	F1H1A475A083	C.CAPACITOR CH 10V 4.7U	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C913	F1H1E105A116	C.CAPACITOR CH 25V 1U	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C914	F1H1C105A167	C.CAPACITOR CH 16V 1U	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C915	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C916	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C917	F1H1A105A036	C.CAPACITOR CH 10V 1U	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C918	F1H1A105A036	C.CAPACITOR CH 10V 1U	1	(VX870/V770/V760 series is checked on a P.C.B. figure)

		C919	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	(VX870/V770/V760 series is checked on a P.C.B. figure)

Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760nbsp; Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C920	F1H1A105A036	C.CAPACITOR CH 10V 1U	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C921	F1H1A105A036	C.CAPACITOR CH 10V 1U	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C922	F1H1C105A167	C.CAPACITOR CH 16V 1U	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C923	F1H1C105A167	C.CAPACITOR CH 16V 1U	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C924	F1G1H220A834	C.CAPACITOR CH 50V 22P	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C925	F1G1H220A834	C.CAPACITOR CH 50V 22P	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C926	F1G1H220A834	C.CAPACITOR CH 50V 22P	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C927	F1G1H220A834	C.CAPACITOR CH 50V 22P	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C928	F1G1H220A834	C.CAPACITOR CH 50V 22P	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C929	F1G1H220A834	C.CAPACITOR CH 50V 22P	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C930	F1G1H220A834	C.CAPACITOR CH 50V 22P	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C931	F1G1H220A834	C.CAPACITOR CH 50V 22P	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C932	F1G1H220A834	C.CAPACITOR CH 50V 22P	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C933	F1G1H220A834	C.CAPACITOR CH 50V 22P	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C934	F1G1H220A834	C.CAPACITOR CH 50V 22P	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C935	F1G1H220A834	C.CAPACITOR CH 50V 22P	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C936	F1G1H220A834	C.CAPACITOR CH 50V 22P	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C937	F1G1H220A834	C.CAPACITOR CH 50V 22P	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C938	F1G1H220A834	C.CAPACITOR CH 50V 22P	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		C939	F1G1H150A834	C.CAPACITOR CH 50V 15P	1	(WX970,WX979,WX970M)
		C939	F1G1H100A833	C.CAPACITOR CH 50V 10P	1	(VX870M,V770M,VX870,VX878,V770,V777,V760) (VX870/V770/V760 series is checked on a P.C.B. figure)
		C1001	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C1002	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C1003	F1H0J4750004	C.CAPACITOR CH 6.3V 4.7U	1	
		C1071	F1H0J4750004	C.CAPACITOR CH 6.3V 4.7U	1	
		C1101	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C1102	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C1103	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C1104	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C1107	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C1110	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C1212	F1J0J2260004	C.CAPACITOR CH 6.3V 22U	1	
		C1221	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C1222	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C1223	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	
		C1224	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	
		C1232	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C1241	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C1242	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	

		C1252	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	(WX970,WX979,WX970M)
		C1261	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	

Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760nbsp; Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C1262	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C1264	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C1271	F1H1E105A116	C.CAPACITOR CH 25V 1U	1	
		C1272	F1H1E105A116	C.CAPACITOR CH 25V 1U	1	
		C1281	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	(except V760)
		C1284	F1J0J2260004	C.CAPACITOR CH 6.3V 22U	1	(except V760)
		C1288	F3G0J1070004	E.CAPACITOR CH 6.3V 100U	1	(except V760)
		C1291	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C1292	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C1293	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	
		C1294	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	
		C1295	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C1296	F1J0J2260004	C.CAPACITOR CH 6.3V 22U	1	
		C1331	F1J0J2260004	C.CAPACITOR CH 6.3V 22U	1	
		C1344	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C1361	F1J0J2260004	C.CAPACITOR CH 6.3V 22U	1	
		C1362	F1J0J2260004	C.CAPACITOR CH 6.3V 22U	1	
		C1381	F1G0J4740003	C.CAPACITOR CH 6.3V 0.47U	1	(except V760)
		C1382	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	(except V760)
		C1393	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C1394	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C1422	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C1471	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C1472	F1J1A475A024	C.CAPACITOR CH 10V 4.7U	1	
		C1501	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C1503	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	(except V760)
		C1504	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	(except V760)
		C1505	F1G1E1040001	C.CAPACITOR CH 25V 0.1U	1	
		C1507	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C1508	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C1511	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C1512	F1H1E105A116	C.CAPACITOR CH 25V 1U	1	
		C1515	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C1516	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C1518	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C1519	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C1551	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C1552	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C1553	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C1554	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C2301	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C2304	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C2305	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C2310	F1G1H8R0A833	C.CAPACITOR CH 50V 8P	1	
		C2311	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	
		C3401	F1J0J106A020	C.CAPACITOR CH 6.3V 10U	1	
		C3403	F1J0J106A020	C.CAPACITOR CH 6.3V 10U	1	
		C3404	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3405	F1J0J1060009	C.CAPACITOR CH 6.3V 10U	1	
		C3406	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3407	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3408	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C3409	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	
		C3411	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3412	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3413	F1J0J106A020	C.CAPACITOR CH 6.3V 10U	1	
		C3414	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3415	F1J0J106A020	C.CAPACITOR CH 6.3V 10U	1	

		C3416	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3417	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	
		C3420	F3F0G4760004	E.CAPACITOR CH 4V 47U	1	
		C3421	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	

Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760nbsp; Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C3422	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	
		C3423	F1H0J4750004	C.CAPACITOR CH 6.3V 4.7U	1	
		C3424	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3425	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3426	F1G1E682A144	C.CAPACITOR CH 25V 6800P	1	
		C3427	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3428	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3429	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3430	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3431	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3432	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C3433	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3434	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3435	F1J0J1060009	C.CAPACITOR CH 6.3V 10U	1	
		C3437	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3438	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3439	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3443	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C3444	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3447	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C3449	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3450	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3451	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3452	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3453	F1G1H472A830	C.CAPACITOR CH 50V 4700P	1	
		C3454	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3455	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	
		C3456	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3457	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	
		C3458	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3459	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3460	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3461	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	
		C3462	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3463	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3464	F1J0J1060009	C.CAPACITOR CH 6.3V 10U	1	
		C3465	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3466	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C3467	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	
		C3468	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	
		C3469	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3474	F1G1H332A830	C.CAPACITOR CH 50V 3300P	1	
		C3476	F3G0J1070004	E.CAPACITOR CH 6.3V 100U	1	
		C3477	F1J0J106A020	C.CAPACITOR CH 6.3V 10U	1	
		C3479	F1J0J106A020	C.CAPACITOR CH 6.3V 10U	1	
		C3480	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C3481	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3483	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	
		C3484	F1G1H332A830	C.CAPACITOR CH 50V 3300P	1	
		C3485	F1G1H332A830	C.CAPACITOR CH 50V 3300P	1	
		C3486	F1G1H332A830	C.CAPACITOR CH 50V 3300P	1	
		C3487	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C3488	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3489	F1J0J106A020	C.CAPACITOR CH 6.3V 10U	1	
		C3490	F1J0J1060009	C.CAPACITOR CH 6.3V 10U	1	
		C3491	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3492	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3495	F1J0J1060009	C.CAPACITOR CH 6.3V 10U	1	

		C3496	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3497	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3701	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	
		C3702	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	

Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760nbsp; Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C3703	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	
		C3704	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	
		C3705	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C3706	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C3707	F1J0J2260004	C.CAPACITOR CH 6.3V 22U	1	
		C3708	F1J0J2260004	C.CAPACITOR CH 6.3V 22U	1	
		C3709	F1J0J2260004	C.CAPACITOR CH 6.3V 22U	1	
		C3710	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C3711	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3712	F1H0J2250008	C.CAPACITOR CH 6.3V 2.2U	1	
		C3713	F1H0J2250008	C.CAPACITOR CH 6.3V 2.2U	1	
		C3714	F1G0J224A004	C.CAPACITOR CH 6.3V 0.22U	1	
		C3715	F1G0J224A004	C.CAPACITOR CH 6.3V 0.22U	1	
		C3716	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C3717	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C3718	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3719	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C3720	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C3721	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3722	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3723	F1J0J2260004	C.CAPACITOR CH 6.3V 22U	1	
		C3724	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3725	F1G1H102A830	C.CAPACITOR CH 50V 1000P	1	
		C3726	F1G1H102A830	C.CAPACITOR CH 50V 1000P	1	
		C3727	F1G1H102A830	C.CAPACITOR CH 50V 1000P	1	
		C3728	F1G1H102A830	C.CAPACITOR CH 50V 1000P	1	
		C3729	F1G1H102A830	C.CAPACITOR CH 50V 1000P	1	
		C3730	F1G1H102A830	C.CAPACITOR CH 50V 1000P	1	
		C3936	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C3937	F3G0J1070004	E.CAPACITOR CH 6.3V 100U	1	
		C3938	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	
		C3940	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	
		C3941	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C3956	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	(WX970M,VX870M,V770M)
		C3957	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	(except V760)
		C3958	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	(except V760)
		C4803	F1G1A473A069	C.CAPACITOR CH 10V 0.047U	1	
		C4804	F1G1H680A834	C.CAPACITOR CH 50V 68P	1	
		C4805	F1G1A473A069	C.CAPACITOR CH 10V 0.047U	1	
		C4806	F1G1H680A834	C.CAPACITOR CH 50V 68P	1	
		C4807	F1G1A473A069	C.CAPACITOR CH 10V 0.047U	1	
		C4808	F1G1H680A834	C.CAPACITOR CH 50V 68P	1	
		C4809	F1G1A473A069	C.CAPACITOR CH 10V 0.047U	1	
		C4810	F1G1H680A834	C.CAPACITOR CH 50V 68P	1	
		C4816	F2G0J2200042	E.CAPACITOR CH 6.3V 22U	1	
		C4817	F2G0J2200042	E.CAPACITOR CH 6.3V 22U	1	
		C4818	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C4821	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C4822	F1G1H471A830	C.CAPACITOR CH 50V 470P	1	
		C4823	F1G1H471A830	C.CAPACITOR CH 50V 470P	1	
		C4824	F1G1H471A830	C.CAPACITOR CH 50V 470P	1	
		C4825	F1G1H471A830	C.CAPACITOR CH 50V 470P	1	
		C4851	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C4852	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C4853	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C4854	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C4855	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C4856	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	

		C4857	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C4858	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C4901	F1G1H472A830	C.CAPACITOR CH 50V 4700P	1	
		C4902	F1G1H472A830	C.CAPACITOR CH 50V 4700P	1	

Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760nbsp; Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C4903	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C4904	F1J0J2260004	C.CAPACITOR CH 6.3V 22U	1	
		C4905	F1J0J2260004	C.CAPACITOR CH 6.3V 22U	1	
		C4907	F1J0J2260004	C.CAPACITOR CH 6.3V 22U	1	
		C4908	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C4909	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C4913	F1H0J4750004	C.CAPACITOR CH 6.3V 4.7U	1	
		C4914	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C4915	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C4921	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	
		C4922	F1G1E103A144	C.CAPACITOR CH 25V 0.01U	1	
		C6001	F1G1E1040001	C.CAPACITOR CH 25V 0.1U	1	
		C6002	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C6005	F1H1C105A167	C.CAPACITOR CH 16V 1U	1	
		C6010	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	(except V760)
		C6018	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C6019	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C6023	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C6096	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C6098	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C6401	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C6403	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C6404	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C6405	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C6406	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C6407	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C6408	F1G1H472A830	C.CAPACITOR CH 50V 4700P	1	
		C6410	F1G1H472A830	C.CAPACITOR CH 50V 4700P	1	
		C6412	F1H1E105A116	C.CAPACITOR CH 25V 1U	1	
		C6413	F1H0J4750004	C.CAPACITOR CH 6.3V 4.7U	1	
		C6501	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)
		C6502	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		C6521	F1G1C104A146	C.CAPACITOR CH 16V 0.1U	1	
		D901	DZ2J200M0L	DIODE	1	E.S.D.(VX870/V770/V760 series is checked on a P.C.B. figure)
		D902	B3AFB0000645	LED	1	E.S.D.(VX870/V770/V760 series is checked on a P.C.B. figure)
		D903	B3AFB0000645	LED	1	E.S.D.(VX870/V770/V760 series is checked on a P.C.B. figure)
		D904	B3AFB0000645	LED	1	E.S.D.(VX870/V770/V760 series is checked on a P.C.B. figure)
		D905	B3AFB0000645	LED	1	E.S.D.(VX870/V770/V760 series is checked on a P.C.B. figure)
		D906	B3AFB0000645	LED	1	E.S.D.(VX870/V770/V760 series is checked on a P.C.B. figure)
		D1271	B0ACRC000001	DIODE	1	E.S.D.
		D1471	DZ2J075M0L	DIODE	1	E.S.D.
		D1503	B0JCMC000019	DIODE	1	E.S.D.
		D1505	DB2S31100L	DIODE	1	E.S.D.
		D2301	DB2S31100L	DIODE	1	E.S.D.
		D6001	DB2S31100L	DIODE	1	E.S.D. (except V760)
		D6401	B3AAB0000343	LED	1	E.S.D.
		D6501	B3EA00000217	LED	1	E.S.D. (WX970,WX979,WX970M,VX870M,VX870,VX878)
		D7503	B3AZB0000112	LED	1	E.S.D.
		FL3401	F1H0J105A037	C.CAPACITOR CH 6.3V 1U	1	
		FL3402	F1H0J105A037	C.CAPACITOR CH 6.3V 1U	1	
		FL3901	J0HAYY000045	FILTER	1	

		FL3902	J0HAAC000057	FILTER	1	
		FL6001	EXC28CH900U	FILTER	1	
		FL6002	EXC28CH900U	FILTER	1	

Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760nbsp; Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		FL6004	F1H0J105A037	C.CAPACITOR CH 6.3V 1U	1	
		FL6005	EXC14CE900U	FILTER	1	
		FL6006	EXC14CE900U	FILTER	1	
		FL6007	EXC14CE900U	FILTER	1	
		FP201	K1MY37BA0605	CONNECTOR 37P	1	(WX970,WX979,WX970M)
		FP251	K1MY32BA0370	CONNECTOR 32P	1	(WX970,WX979,WX970M)
		FP252	K1MY33BA0605	CONNECTOR 33P	1	(WX970,WX979,WX970M)
		FP301	K1MY51AA0199	CONNECTOR 51P	1	
		FP901	K1MY32BA0370	CONNECTOR 32P	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		FP904	K1MY51BA0575	CONNECTOR 51P	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		FP905	K1MY04BA0633	CONNECTOR 4P	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		FP4801	K1MY10BA0633	CONNECTOR 10P	1	
		FP4802	K1MY06BA0641	CONNECTOR 6P	1	
		FP4803	K1MY10BA0633	CONNECTOR 10P	1	
		FP6001	K1MY37BA0605	CONNECTOR 37P	1	
		FP6004	K1MY18BA0641	CONNECTOR 18P	1	
		FP6005	K1MY08BA0641	CONNECTOR 8P	1	
		FP6006	K1MY21BA0605	CONNECTOR 21P	1	(except V760)
		FP6007	K1MY06BA0641	CONNECTOR 6P	1	(except V760)
		FP6008	K1MY51AA0199	CONNECTOR 51P	1	
		FP6011	K1MY10BA0641	CONNECTOR 10P	1	(WX970M,VX870M,V770M)
		FP6012	K1MY12BA0641	CONNECTOR 12P	1	
		FP6501	K1MY04BA0432	CONNECTOR 4P	1	
		FP6502	K1MN12A00075	CONNECTOR 12P	1	
		HS3931	K1NA09E00153	MEMORY CARD CONNECTOR	1	
		IC201	C0DBGYY04532	IC	1	E.S.D. (WX970,WX979,WX970M)
		IC202	C0DBGYY04540	IC	1	E.S.D. (WX970,WX979,WX970M)
		IC203	C0JBAZ003196	IC	1	E.S.D. (WX970,WX979,WX970M)
		IC205	C0JBAA000608	IC	1	E.S.D. (WX970,WX979,WX970M)
		IC206	C0DBGYY04550	IC	1	E.S.D. (WX970,WX979,WX970M)
		IC207	C0DBGYY04554	IC	1	E.S.D. (WX970,WX979,WX970M)
		IC208	C0DBGYY04659	IC	1	E.S.D. (WX970,WX979,WX970M)
		IC252	C0JBAA000608	IC	1	E.S.D. (WX970,WX979,WX970M)
		IC301	C0DBGFC00008	IC	1	E.S.D.
		IC302	C0JBAA000608	IC	1	E.S.D.
		IC701	C1AB00003719	IC	1	E.S.D.
		IC703	C0DBGYY00909	IC	1	E.S.D.
		IC704	C0DBGYY00936	IC	1	E.S.D.
		IC705	C1AB00003450	IC	1	E.S.D.
		IC706	C0GBC0000028	IC	1	E.S.D.
		IC751	EWTS9RCL1A	IC	1	(SPC) E.S.D.
		IC761	C0ABGA000035	IC	1	E.S.D.
		IC762	C0GBC0000028	IC	1	E.S.D. (WX970,WX979,WX970M,VX870M,VX870,VX878)
		IC763	C1AB00003450	IC	1	E.S.D.
		IC901	C1CB00002847	IC	1	E.S.D.(VX870/V770/V760 series is checked on a P.C.B. figure)
		IC902	B4ZZ00000041	IC	1	E.S.D.(VX870/V770/V760 series is checked on a P.C.B. figure)
		IC1001	C1ZBZ0004885	IC	1	E.S.D.
		IC1221	C0DBZYY00724	IC	1	E.S.D.
		IC1222	C0EBY0002310	IC	1	E.S.D.
		IC1241	C0ZBZ0002264	IC	1	E.S.D.
		IC1261	C0DBGYY05584	IC	1	E.S.D.
		IC1262	C0ZBZ0002264	IC	1	E.S.D.
		IC1291	C0ZBZ0002264	IC	1	E.S.D.

		IC1341	C0DBGYY05590	IC	1	E.S.D.
		IC1381	C0DBGYY03698	IC	1	E.S.D. (except V760)
		IC1392	C0DBGYY05582	IC	1	E.S.D.

Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760nbsp; Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		IC1421	C0DBGYY00936	IC	1	E.S.D.
		IC1471	C0DBZYY00577	IC	1	E.S.D.
		IC1501	C0DBGYY03473	IC	1	E.S.D. (except V760)
		IC1503	C0DBDYY00054	IC	1	E.S.D.
		IC1551	VUEALLPT082	IC	1	(SPC) E.S.D.
		IC2301	C0EBY0002322	IC	1	E.S.D.
		IC3401	VSG1026-Q	IC	1	E.S.D.
		IC3404	TC58NYG0J15A	IC	1	E.S.D. (WX970,WX979,WX970M,VX870M,VX870,VX878)
		IC3404	TC58NYG0H15A	IC	1	E.S.D. (V770M,V770,V777)
		IC3404	TC58NYG0D15A	IC	1	E.S.D. (V760)
		IC3406	C0EBY0002365	IC	1	E.S.D.
		IC3412	C0JBAF000805	IC	1	E.S.D.
		IC3413	C0JBAA000608	IC	1	E.S.D.
		IC3414	C0EBY0002355	IC	1	E.S.D.
		IC3701	C1AB00004179	IC	1	E.S.D.
		IC3702	C0ZBZ0001730	IC	1	E.S.D.
		IC3703	C1AB00004180	IC	1	E.S.D.
		IC4802	C0ABBB000369	IC	1	E.S.D.
		IC4803	C0ABBB000369	IC	1	E.S.D.
		IC6401	EWTS9PDL1A	IC	1	(SPC) E.S.D.
		IC6411	VUEALLPT053	IC	1	(SPC) E.S.D.
	⚠	IP6401	K5H402YA0080	IC PROTECTOR	1	
	⚠	IP6701	K5H402YA0080	IC PROTECTOR	1	
		JK4902	K2HC106E0009	JACK	1	
		JK6001	K2HC106E0009	JACK	1	
		JK6002	K2HZ105B0012	JACK	1	
		JK6003	K1FY119E0057	JACK	1	
		JK6401	K2EB2E000009	JACK	1	
		JK6402	K2HC106E0009	JACK	1	
		JK6701	K4ZZ04000056	JACK	1	
		L301	G1C100MA0072	CHIP INDUCTOR 10UH	1	
		L302	G1C100MA0072	CHIP INDUCTOR 10UH	1	
		L303	G1C100MA0072	CHIP INDUCTOR 10UH	1	
		L1211	G1C4R7ZA0390	CHIP INDUCTOR 4.7UH	1	
		L1221	G1C3R3MA0477	CHIP INDUCTOR 3.3UH	1	
		L1231	G1C3R3MA0477	CHIP INDUCTOR 3.3UH	1	
		L1241	G1C4R7MA0477	CHIP INDUCTOR 4.7UH	1	
		L1251	G1C4R7MA0477	CHIP INDUCTOR 4.7UH	1	(WX970,WX979,WX970M)
		L1261	G1C4R7ZA0240	CHIP INDUCTOR 4.7UH	1	
		L1271	G1C6R8MA0478	CHIP INDUCTOR 6.8UH	1	
		L1281	G1C2R2MA0477	CHIP INDUCTOR 2.2UH	1	(except V760)
		L1291	G1C1R0MA0535	CHIP INDUCTOR 1.0UH	1	
		L1501	G1C4R7ZA0240	CHIP INDUCTOR 4.7UH	1	
		L3406	G1C4R7MA0495	CHIP INDUCTOR 4.7UH	1	
		L3408	G1C4R7MA0408	CHIP INDUCTOR 4.7UH	1	
		L3409	G1C100MA0495	CHIP INDUCTOR 10UH	1	
		L3410	G1C100MA0495	CHIP INDUCTOR 10UH	1	
		L3411	G1C4R7MA0408	CHIP INDUCTOR 4.7UH	1	
		L3412	G1C4R7MA0495	CHIP INDUCTOR 4.7UH	1	
		L3415	G1C4R7MA0495	CHIP INDUCTOR 4.7UH	1	
		L3701	G1C4R7MA0408	CHIP INDUCTOR 4.7UH	1	
		LB202	J0JBC0000115	FILTER	1	(WX970,WX979,WX970M)
		LB251	J0JBC0000099	FILTER	1	(WX970,WX979,WX970M)
		LB301	J0JBC0000099	FILTER	1	
		LB901	J0JBC0000099	FILTER	1	(VX870/V770/V760 series is checked on a P.C.B. figure)

		LB902	J0JHC0000078	FILTER	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		LB3401	J0JBC0000099	FILTER	1	
		LB3402	J0JBC0000099	FILTER	1	(WX970M,VX870M,V770M)
		LB3404	J0JBC0000099	FILTER	1	(except V760)

Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760nbsp; Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		LB3951	J0JGC0000059	FILTER	1	(WX970M,VX870M,V770M)
		LB4927	J0JCC0000276	FILTER	1	
		LB4928	J0JCC0000276	FILTER	1	
		LB4929	J0JCC0000276	FILTER	1	
		LB6001	J0JYC0000086	FILTER	1	
		LB6002	J0JYC0000086	FILTER	1	
		LB6003	J0JYC0000086	FILTER	1	
		LB6004	J0JYC0000086	FILTER	1	
		LB6020	J0JCC0000276	FILTER	1	
		LB6021	J0JCC0000276	FILTER	1	
		LB6022	J0JCC0000276	FILTER	1	
		LB6401	J0JJC0000015	FILTER	1	
		LB6402	J0JCC0000276	FILTER	1	
		LB6403	J0JCC0000276	FILTER	1	
		LB6404	J0JCC0000276	FILTER	1	
		LB6405	J0JCC0000276	FILTER	1	
		LB6406	J0JCC0000276	FILTER	1	
		LB6453	J0JCC0000276	FILTER	1	
		LB6701	J0JCC0000276	FILTER	1	
		LB6702	J0JCC0000276	FILTER	1	
		P6003	K1KY06BA0314	CONNECTOR 6P	1	
		P6401	K1KA02BA0014	CONNECTOR 2P	1	
		P6701	K1KY06BA0314	CONNECTOR 6P	1	
		PP6001	K1KA60B00061	CONNECTOR 60P	1	
		PS6401	K1KA60A00156	CONNECTOR 60P	1	
		Q773	B1ADGE000014	TRANSISTOR	1	E.S.D.
		Q774	B1ABCF000310	TRANSISTOR	1	E.S.D.
		Q775	B1ADGE000014	TRANSISTOR	1	E.S.D. (WX970,WX979,WX970M,VX870M,VX870,VX878)
		Q1001	B1ABCF000316	TRANSISTOR	1	E.S.D.
		Q1471	MTM761230LBF	TRANSISTOR	1	E.S.D.
		Q1501	B1CHQD000012	TRANSISTOR	1	E.S.D.
		Q1502	MTM684110LBF	TRANSISTOR	1	E.S.D.
		Q1503	MTM761230LBF	TRANSISTOR	1	E.S.D.
		Q1504	B1CFJD000007	TRANSISTOR	1	E.S.D.
		Q3401	B1CFGD000003	TRANSISTOR	1	E.S.D.
		Q3402	B1CFJD000007	TRANSISTOR	1	E.S.D.
		Q3931	B1ADKB000015	TRANSISTOR	1	E.S.D.
		Q4801	DSC900100L	TRANSISTOR	1	E.S.D.
		Q4901	B1ABCF000316	TRANSISTOR	1	E.S.D.
		Q4902	B1ADCF000232	TRANSISTOR	1	E.S.D.
		Q4903	B1ABCF000316	TRANSISTOR	1	E.S.D.
		Q4904	B1ADCF000232	TRANSISTOR	1	E.S.D.
		Q4907	B1ABCF000316	TRANSISTOR	1	E.S.D.
		Q4908	B1ABCF000316	TRANSISTOR	1	E.S.D.
		Q6501	B1ADGE000014	TRANSISTOR	1	E.S.D. (WX970,WX979,WX970M,VX870M,VX870,VX878)
		Q6502	B1ABGE000015	TRANSISTOR	1	E.S.D. (WX970,WX979,WX970M,VX870M,VX870,VX878)
		QR751	B1GDCFYY0154	TRANSISTOR-RESISTOR	1	E.S.D.
		QR773	DRC3143Z0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR774	DRC3143Z0L	TRANSISTOR-RESISTOR	1	E.S.D. (WX970,WX979,WX970M,VX870M,VX870,VX878)
		QR1001	B1GDCFYY0152	TRANSISTOR-RESISTOR	1	E.S.D.
		QR1002	B1GDCFYY0152	TRANSISTOR-RESISTOR	1	E.S.D.
		QR1003	B1GBCFYY0222	TRANSISTOR-RESISTOR	1	E.S.D.
		QR1101	DRC3114E0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR1221	B1GDCFYY0152	TRANSISTOR-RESISTOR	1	E.S.D.

		QR1222	B1GBCFYY0222	TRANSISTOR-RESISTOR	1	E.S.D.
		QR1471	B1GBCFYY0222	TRANSISTOR-RESISTOR	1	E.S.D.
		QR1501	B1GBCFYY0222	TRANSISTOR-RESISTOR	1	E.S.D.
		QR1502	B1GDCFYY0148	TRANSISTOR-RESISTOR	1	E.S.D.

Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760nbsp; Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		QR1503	B1GDCFYY0148	TRANSISTOR-RESISTOR	1	E.S.D.
		QR2308	DRA3144E0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR2389	DRC3114E0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3401	B1GBCFYY0224	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3402	B1GDCFYY0148	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3403	B1GBCFYY0222	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3410	B1GBCFYY0234	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3411	B1GDCFYY0189	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3412	B1GBCFYY0234	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3413	B1GDCFYY0189	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3415	B1GDCFYY0151	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3416	B1GDCFYY0151	TRANSISTOR-RESISTOR	1	E.S.D.
		QR4851	DRC9144E0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR4852	DRC9144E0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR4853	DRC9144E0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR4854	DRC9144E0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR6006	DRA3124X0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR6007	DRA3124X0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR6008	DRC3114E0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR6402	DRA9114T0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR6403	DRA9114T0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR6501	B1GDCFYY0158	TRANSISTOR-RESISTOR	1	E.S.D. (WX970,WX979,WX970M,VX870M,VX870,VX878)
		QR6502	B1GBCFYY0229	TRANSISTOR-RESISTOR	1	E.S.D. (WX970,WX979,WX970M,VX870M,VX870,VX878)
		R201	D0GA272JA023	M.RESISTOR CH 1/10W 2.7K	1	(WX970,WX979,WX970M)
		R202	D0GA272JA023	M.RESISTOR CH 1/10W 2.7K	1	(WX970,WX979,WX970M)
		R203	D0GA272JA023	M.RESISTOR CH 1/10W 2.7K	1	(WX970,WX979,WX970M)
		R204	D0GA272JA023	M.RESISTOR CH 1/10W 2.7K	1	(WX970,WX979,WX970M)
		R213	D0GA102JA039	M.RESISTOR CH 1/16W 1K	1	(WX970,WX979,WX970M)
		R214	D0GA101JA039	M.RESISTOR CH 1/16W 100	1	(WX970,WX979,WX970M)
		R216	D0GA222JA023	M.RESISTOR CH 1/10W 2.2K	1	(WX970,WX979,WX970M)
		R217	D0GA222JA023	M.RESISTOR CH 1/10W 2.2K	1	(WX970,WX979,WX970M)
		R218	D0GA272JA023	M.RESISTOR CH 1/10W 2.7K	1	(WX970,WX979,WX970M)
		R220	D0GA101JA039	M.RESISTOR CH 1/16W 100	1	(WX970,WX979,WX970M)
		R252	D0GA102JA039	M.RESISTOR CH 1/16W 1K	1	(WX970,WX979,WX970M)
		R254	D0GA102JA039	M.RESISTOR CH 1/16W 1K	1	(WX970,WX979,WX970M)
		R261	D0GA820JA023	M.RESISTOR CH 1/16W 82	1	(WX970,WX979,WX970M)
		R304	D0GA103JA039	M.RESISTOR CH 1/16W 10K	1	
		R305	D0GA390JA023	M.RESISTOR CH 1/16W 39	1	
		R505	D0GA222JA023	M.RESISTOR CH 1/10W 2.2K	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		R508	D0GA100JA023	M.RESISTOR CH 1/10W 10	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		R509	D0GA100JA023	M.RESISTOR CH 1/10W 10	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		R510	D0GA100JA023	M.RESISTOR CH 1/10W 10	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		R511	D0GA100JA023	M.RESISTOR CH 1/10W 10	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		R712	D1BA1002A022	M.RESISTOR CH 1/16W 10K	1	
		R713	D1BA1002A022	M.RESISTOR CH 1/16W 10K	1	
		R714	D0GA103JA039	M.RESISTOR CH 1/16W 10K	1	
		R715	D0GA103JA039	M.RESISTOR CH 1/16W 10K	1	
		R716	D0GA102JA039	M.RESISTOR CH 1/16W 1K	1	
		R717	D0GA682JA023	M.RESISTOR CH 1/10W 6.8K	1	
		R729	D0GA473JA039	M.RESISTOR CH 1/16W 47K	1	
		R731	D0GA101JA039	M.RESISTOR CH 1/16W 100	1	

		R732	D0GA473JA039	M.RESISTOR CH 1/16W 47K	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)
		R733	D0GA124JA023	M.RESISTOR CH 1/10W 120K	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)

Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760nbsp; Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R741	D1BA1002A022	M.RESISTOR CH 1/16W 10K	1	
		R742	D1BA1002A022	M.RESISTOR CH 1/16W 10K	1	
		R743	D1BA1003A022	M.RESISTOR CH 1/16W 100K	1	
		R744	D1BA1203A022	M.RESISTOR CH 1/16W 120K	1	
		R745	D1BA1002A022	M.RESISTOR CH 1/16W 10K	1	
		R746	D1BA1002A022	M.RESISTOR CH 1/16W 10K	1	
		R751	D0GA181JA023	M.RESISTOR CH 1/10W 180	1	
		R753	D0GA102JA039	M.RESISTOR CH 1/16W 1K	1	
		R754	D0GA102JA039	M.RESISTOR CH 1/16W 1K	1	
		R761	D0GA223JA023	M.RESISTOR CH 1/10W 22K	1	
		R765	D1BA2702A022	M.RESISTOR CH 1/16W 27K	1	
		R766	D1BA1502A022	M.RESISTOR CH 1/16W 15K	1	
		R767	D0GA222JA023	M.RESISTOR CH 1/10W 2.2K	1	
		R768	D1BA3302A022	M.RESISTOR CH 1/16W 33K	1	
		R771	D0GA473JA039	M.RESISTOR CH 1/16W 47K	1	
		R772	D0GA821JA023	M.RESISTOR CH 1/10W 820	1	
		R773	D0GA473JA039	M.RESISTOR CH 1/16W 47K	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)
		R775	D0GA221JA023	M.RESISTOR CH 1/10W 220	1	
		R776	D0GA473JA039	M.RESISTOR CH 1/16W 47K	1	
		R778	D0GA473JA039	M.RESISTOR CH 1/16W 47K	1	
		R779	D0GA221JA023	M.RESISTOR CH 1/10W 220	1	
		R780	D0GA224JA023	M.RESISTOR CH 1/10W 220K	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)
		R781	D0GA104JA039	M.RESISTOR CH 1/16W 100K	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)
		R782	D0GA102JA039	M.RESISTOR CH 1/16W 1K	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)
		R783	D0GA103JA039	M.RESISTOR CH 1/16W 10K	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)
		R784	D0GA103JA039	M.RESISTOR CH 1/16W 10K	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)
		R785	D0GA221JA023	M.RESISTOR CH 1/10W 220	1	
		R786	D0GA332JA023	M.RESISTOR CH 1/10W 3.3K	1	
		R788	D0GA472JA023	M.RESISTOR CH 1/10W 4.7K	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)
		R789	D0GA472JA023	M.RESISTOR CH 1/10W 4.7K	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)
		R790	D0GA391JA023	M.RESISTOR CH 1/10W 390	1	
		R792	D0GA391JA023	M.RESISTOR CH 1/10W 390	1	
		R793	D0GA221JA023	M.RESISTOR CH 1/10W 220	1	
		R795	D0GAR00J0005	M.RESISTOR CH 1/10W 0	1	
		R799	D0GA821JA023	M.RESISTOR CH 1/10W 820	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)
		R913	D0GA151JA023	M.RESISTOR CH 1/10W 150	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		R914	D0GA151JA023	M.RESISTOR CH 1/10W 150	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		R915	D0GA101JA039	M.RESISTOR CH 1/16W 100	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
	⚠	R1001	D1JBR084A023	FUSING RESISTOR 0.084	1	
		R1003	D0GA103JA039	M.RESISTOR CH 1/16W 10K	1	
		R1004	D0GA473JA039	M.RESISTOR CH 1/16W 47K	1	
		R1005	D0GA154JA023	M.RESISTOR CH 1/10W 150K	1	
		R1006	D0GA104JA039	M.RESISTOR CH 1/16W 100K	1	
		R1101	D0GA120JA023	M.RESISTOR CH 1/10W 12	1	
		R1103	D0GAR00J0005	M.RESISTOR CH 1/10W 0	1	(VX870M,V770M,VX870,VX878,V770,V777,V760)
		R1107	D0GA103JA039	M.RESISTOR CH 1/16W 10K	1	

		R1221	D0GA472JA023	M.RESISTOR CH 1/10W 4.7K	1	
		R1222	D0GA104JA039	M.RESISTOR CH 1/16W 100K	1	
		R1223	D0GA224JA023	M.RESISTOR CH 1/10W 220K	1	

Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760nbsp; Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R1241	D0GA104JA039	M.RESISTOR CH 1/16W 100K	1	
		R1252	D1BA3303A022	M.RESISTOR CH 1/16W 330K	1	(WX970,WX979,WX970M)
		R1253	D1BA4702A022	M.RESISTOR CH 1/16W 47K	1	(WX970,WX979,WX970M)
		R1254	D1BA2203A022	M.RESISTOR CH 1/16W 220K	1	(WX970,WX979,WX970M)
		R1262	D1BA1002A022	M.RESISTOR CH 1/16W 10K	1	
		R1263	D1BA1501A022	M.RESISTOR CH 1/16W 1.5K	1	
		R1264	D1BA2202A022	M.RESISTOR CH 1/16W 22K	1	
	⚠	R1271	D1JBR179A023	FUSING RESISTOR 0.179	1	
		R1282	D1BA1302A022	M.RESISTOR CH 1/16W 13K	1	(except V760)
		R1292	D1BA5102A022	M.RESISTOR CH 1/16W 51K	1	
		R1293	D1BA6201A022	M.RESISTOR CH 1/16W 6.2K	1	
		R1294	D1BA2203A022	M.RESISTOR CH 1/16W 220K	1	
		R1296	D0GA473JA039	M.RESISTOR CH 1/16W 47K	1	
		R1297	D0GA473JA039	M.RESISTOR CH 1/16W 47K	1	
		R1382	D0GA222JA023	M.RESISTOR CH 1/10W 2.2K	1	(except V760)
		R1426	D0GA103JA039	M.RESISTOR CH 1/16W 10K	1	
		R1471	D0GA203JA023	M.RESISTOR CH 1/10W 20K	1	
		R1472	D0GA102JA039	M.RESISTOR CH 1/16W 1K	1	
		R1473	D0GA473JA039	M.RESISTOR CH 1/16W 47K	1	
		R1474	D0GA104JA039	M.RESISTOR CH 1/16W 100K	1	
		R1501	D0GA105JA023	M.RESISTOR CH 1/10W 1M	1	
	⚠	R1503	D1JB2R70A023	FUSING RESISTOR 2.7	1	(except V760)
		R1513	D1BA1503A022	M.RESISTOR CH 1/16W 150K	1	
		R1515	D1BA1203A022	M.RESISTOR CH 1/16W 120K	1	
		R1516	D0GA102JA039	M.RESISTOR CH 1/16W 1K	1	
		R1522	D1BA1203A022	M.RESISTOR CH 1/16W 120K	1	
		R1523	D1BA1803A022	M.RESISTOR CH 1/16W 180K	1	
		R1525	D1BA2202A022	M.RESISTOR CH 1/16W 22K	1	
		R1526	D1BDR100A111	M.RESISTOR CH 1/3W 100	1	
		R1529	D0GA101JA039	M.RESISTOR CH 1/16W 100	1	
		R1531	D0GA100JA023	M.RESISTOR CH 1/10W 10	1	
		R1535	D0GA472JA023	M.RESISTOR CH 1/10W 4.7K	1	
		R1551	D0GA331JA023	M.RESISTOR CH 1/10W 330	1	
		R2301	D0GA473JA039	M.RESISTOR CH 1/16W 47K	1	
		R2304	D0GA102JA039	M.RESISTOR CH 1/16W 1K	1	
		R2312	D0GA472JA023	M.RESISTOR CH 1/10W 4.7K	1	
		R3400	D1BA1801A022	M.RESISTOR CH 1/16W 1.8K	1	
		R3401	D1BA1801A022	M.RESISTOR CH 1/16W 1.8K	1	
		R3402	D0GA681JA023	M.RESISTOR CH 1/10W 680	1	
		R3406	D0GA121JA023	M.RESISTOR CH 1/10W 120	1	(except V760)
		R3409	D0GA560JA023	M.RESISTOR CH 1/10W 56	1	(except V760)
		R3410	D0GA152JA023	M.RESISTOR CH 1/10W 1.5K	1	
		R3411	D1BA3901A022	M.RESISTOR CH 1/16W 3.9K	1	
		R3413	D1BA1801A022	M.RESISTOR CH 1/16W 1.8K	1	
		R3414	D1BA1801A022	M.RESISTOR CH 1/16W 1.8K	1	
		R3415	D0GA103JA039	M.RESISTOR CH 1/16W 10K	1	(WX970,WX979,WX970M)
		R3416	D0GA103JA039	M.RESISTOR CH 1/16W 10K	1	(WX970,WX979,WX970M)
		R3417	D0GA122JA023	M.RESISTOR CH 1/10W 1.2K	1	
		R3418	D0GA122JA023	M.RESISTOR CH 1/10W 1.2K	1	
		R3419	D0GA681JA023	M.RESISTOR CH 1/10W 680	1	
		R3423	D0GA103JA039	M.RESISTOR CH 1/16W 10K	1	
		R3427	D1BA2400A022	M.RESISTOR CH 1/16W 240	1	
		R3428	D0GA102JA039	M.RESISTOR CH 1/16W 1K	1	
		R3429	D0GA273JA023	M.RESISTOR CH 1/10W 27K	1	
		R3430	D0GA102JA039	M.RESISTOR CH 1/16W 1K	1	
		R3431	D1BA2400A022	M.RESISTOR CH 1/16W 240	1	
		R3432	D1BA4701A022	M.RESISTOR CH 1/16W 4.7K	1	
		R3433	D0GA472JA023	M.RESISTOR CH 1/10W 4.7K	1	

		R3436	D0GA472JA023	M.RESISTOR CH 1/10W 4.7K	1	
		R3437	D0GA182JA023	M.RESISTOR CH 1/10W 1.8K	1	
		R3438	D0GA182JA023	M.RESISTOR CH 1/10W 1.8K	1	
		R3439	D1BA2400A022	M.RESISTOR CH 1/16W 240	1	

Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760nbsp; Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R3440	D0GA473JA039	M.RESISTOR CH 1/16W 47K	1	
		R3441	D0GA473JA039	M.RESISTOR CH 1/16W 47K	1	
		R3442	D0GA330JA023	M.RESISTOR CH 1/10W 33	1	
		R3443	D0GA220JA023	M.RESISTOR CH 1/10W 22	1	
		R3444	D1BA2400A022	M.RESISTOR CH 1/16W 240	1	
		R3445	D0GA101JA039	M.RESISTOR CH 1/16W 100	1	(WX970M,VX870M,V770M)
		R3446	D0GA560JA023	M.RESISTOR CH 1/10W 56	1	(WX970M,VX870M,V770M)
		R3448	D1BA6201A022	M.RESISTOR CH 1/16W 6.2K	1	
		R3450	D1BA1801A022	M.RESISTOR CH 1/16W 1.8K	1	
		R3451	D1BA1801A022	M.RESISTOR CH 1/16W 1.8K	1	
		R3453	D1BA1801A022	M.RESISTOR CH 1/16W 1.8K	1	
		R3454	D1BA1801A022	M.RESISTOR CH 1/16W 1.8K	1	
		R3457	D0GA152JA023	M.RESISTOR CH 1/10W 1.5K	1	
		R3458	D0GA102JA039	M.RESISTOR CH 1/16W 1K	1	
		R3461	D0GA104JA039	M.RESISTOR CH 1/16W 100K	1	
		R3462	D0GA102JA039	M.RESISTOR CH 1/16W 1K	1	
		R3463	D0GA104JA039	M.RESISTOR CH 1/16W 100K	1	
		R3466	D0GA473JA039	M.RESISTOR CH 1/16W 47K	1	
		R3467	D1BA1802A022	M.RESISTOR CH 1/16W 18K	1	
		R3468	D1BA1002A022	M.RESISTOR CH 1/16W 10K	1	
		R3470	D1BA2000A022	M.RESISTOR CH 1/16W 200	1	
		R3472	D1BA6801A022	M.RESISTOR CH 1/16W 6.8K	1	
		R3476	D1BA2000A022	M.RESISTOR CH 1/16W 200	1	
		R3477	D1BA5601A022	M.RESISTOR CH 1/16W 5.6K	1	
		R3486	D0GA270JA023	M.RESISTOR CH 1/10W 27	1	
		R3487	D0GA270JA023	M.RESISTOR CH 1/10W 27	1	
		R3499	D0GA470JA023	M.RESISTOR CH 1/10W 47	1	
		R3506	D0GA102JA039	M.RESISTOR CH 1/16W 1K	1	
		R3507	D0GA102JA039	M.RESISTOR CH 1/16W 1K	1	
		R3508	D0GA102JA039	M.RESISTOR CH 1/16W 1K	1	
		R3530	D0GAR00J0005	M.RESISTOR CH 1/10W 0	1	
		R3701	D0GA102JA039	M.RESISTOR CH 1/16W 1K	1	
		R3702	D0GA101JA039	M.RESISTOR CH 1/16W 100	1	
		R3703	D0GA101JA039	M.RESISTOR CH 1/16W 100	1	
		R3704	D0GA102JA039	M.RESISTOR CH 1/16W 1K	1	
		R3705	D0GA102JA039	M.RESISTOR CH 1/16W 1K	1	
		R3706	D0GA223JA023	M.RESISTOR CH 1/10W 22K	1	
		R3707	D0GA223JA023	M.RESISTOR CH 1/10W 22K	1	
		R3716	D0GA102JA039	M.RESISTOR CH 1/16W 1K	1	
		R3717	D0GA330JA023	M.RESISTOR CH 1/10W 33	1	
		R3718	D0GA330JA023	M.RESISTOR CH 1/10W 33	1	
		R3931	D0GA330JA023	M.RESISTOR CH 1/10W 33	1	
		R3932	D0GA100JA023	M.RESISTOR CH 1/10W 10	1	
		R3933	D0GA103JA039	M.RESISTOR CH 1/16W 10K	1	
		R3934	D0GA271JA023	M.RESISTOR CH 1/10W 270	1	
		R3935	D0GA331JA023	M.RESISTOR CH 1/10W 330	1	
		R3936	D0GA102JA039	M.RESISTOR CH 1/16W 1K	1	
		R3937	D0GA102JA039	M.RESISTOR CH 1/16W 1K	1	
		R3939	D0GA333JA023	M.RESISTOR CH 1/10W 33K	1	
		R3940	D0GB150JA065	M.RESISTOR CH 1/10W 15	1	
		R3953	D0GA103JA039	M.RESISTOR CH 1/16W 10K	1	(except V760)
		R3956	D0GA103JA039	M.RESISTOR CH 1/16W 10K	1	(WX970M,VX870M,V770M)
		R3980	D0GAR00J0005	M.RESISTOR CH 1/10W 0	1	
		R3981	D0GAR00J0005	M.RESISTOR CH 1/10W 0	1	
		R4801	D0GD392JA052	M.RESISTOR CH 1/8W 3.9K	1	
		R4802	D0GD392JA052	M.RESISTOR CH 1/8W 3.9K	1	
		R4803	D0GD392JA052	M.RESISTOR CH 1/8W 3.9K	1	
		R4804	D0GD392JA052	M.RESISTOR CH 1/8W 3.9K	1	

		R4808	D0GA183JA023	M.RESISTOR CH 1/10W 18K	1	
		R4809	D0GA473JA039	M.RESISTOR CH 1/16W 47K	1	
		R4810	D0GA183JA023	M.RESISTOR CH 1/10W 18K	1	
		R4811	D0GA473JA039	M.RESISTOR CH 1/16W 47K	1	

Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760nbsp; Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R4812	D0GA183JA023	M.RESISTOR CH 1/10W 18K	1	
		R4813	D0GA473JA039	M.RESISTOR CH 1/16W 47K	1	
		R4814	D0GA183JA023	M.RESISTOR CH 1/10W 18K	1	
		R4815	D0GA473JA039	M.RESISTOR CH 1/16W 47K	1	
		R4816	D0GA472JA023	M.RESISTOR CH 1/10W 4.7K	1	
		R4817	D0GA223JA023	M.RESISTOR CH 1/10W 22K	1	
		R4818	D0GA333JA023	M.RESISTOR CH 1/10W 33K	1	
		R4851	D0GA184JA023	M.RESISTOR CH 1/10W 180K	1	
		R4852	D0GA183JA023	M.RESISTOR CH 1/10W 18K	1	
		R4853	D0GA184JA023	M.RESISTOR CH 1/10W 180K	1	
		R4854	D0GA183JA023	M.RESISTOR CH 1/10W 18K	1	
		R4855	D0GA183JA023	M.RESISTOR CH 1/10W 18K	1	
		R4856	D0GA184JA023	M.RESISTOR CH 1/10W 180K	1	
		R4857	D0GA184JA023	M.RESISTOR CH 1/10W 180K	1	
		R4858	D0GA183JA023	M.RESISTOR CH 1/10W 18K	1	
		R4901	D0HB331ZA002	M.RESISTOR CH 1/10W 330	1	
		R4902	D0GA472JA023	M.RESISTOR CH 1/10W 4.7K	1	
		R4904	D0HB562ZA002	M.RESISTOR CH 1/10W 5.6K	1	
		R4905	D0GA471JA023	M.RESISTOR CH 1/10W 470	1	
		R4906	D0HB103ZA002	M.RESISTOR CH 1/16W 10K	1	
		R4907	D0HB154ZA002	M.RESISTOR CH 1/16W 150K	1	
		R4908	D0HB563ZA002	M.RESISTOR CH 1/10W 56K	1	
		R4909	D0GA102JA039	M.RESISTOR CH 1/16W 1K	1	
		R4910	D0GA562JA023	M.RESISTOR CH 1/10W 5.6K	1	
		R4911	D0GA821JA023	M.RESISTOR CH 1/10W 820	1	
		R4912	D0GA471JA023	M.RESISTOR CH 1/10W 470	1	
		R4913	D0HB103ZA002	M.RESISTOR CH 1/16W 10K	1	
		R4914	D0HB154ZA002	M.RESISTOR CH 1/16W 150K	1	
		R4915	D0HB563ZA002	M.RESISTOR CH 1/10W 56K	1	
		R4916	D0GA102JA039	M.RESISTOR CH 1/16W 1K	1	
		R4917	D0GA562JA023	M.RESISTOR CH 1/10W 5.6K	1	
		R4918	D0GA821JA023	M.RESISTOR CH 1/10W 820	1	
		R4920	D0HB562ZA002	M.RESISTOR CH 1/10W 5.6K	1	
		R4922	D0GA223JA023	M.RESISTOR CH 1/10W 22K	1	
		R4923	D0GA683JA023	M.RESISTOR CH 1/10W 68K	1	
		R4924	D0GA473JA039	M.RESISTOR CH 1/16W 47K	1	
		R6001	D0GA471JA023	M.RESISTOR CH 1/10W 470	1	
		R6002	D0GA103JA039	M.RESISTOR CH 1/16W 10K	1	
	⚠	R6003	D1JBR045A055	FUSING RESISTOR 0.045	1	
		R6402	D0GA103JA039	M.RESISTOR CH 1/16W 10K	1	
		R6403	D0GA102JA039	M.RESISTOR CH 1/16W 1K	1	
		R6404	D0GA470JA023	M.RESISTOR CH 1/10W 47	1	
		R6405	D0GA102JA039	M.RESISTOR CH 1/16W 1K	1	
		R6406	D1BA1002A022	M.RESISTOR CH 1/16W 10K	1	
		R6414	D0GBR00J0004	M.RESISTOR CH 1/10W 0	1	
		R6416	D0GA103JA039	M.RESISTOR CH 1/16W 10K	1	
		R6417	D1BA68R0A022	M.RESISTOR CH 1/16W 68	1	
		R6418	D0GAR00J0005	M.RESISTOR CH 1/10W 0	1	
		R6420	D0GA102JA039	M.RESISTOR CH 1/16W 1K	1	
		R6422	D0GA101JA039	M.RESISTOR CH 1/16W 100	1	
		R6430	D0GA103JA039	M.RESISTOR CH 1/16W 10K	1	
		R6457	D0GA103JA039	M.RESISTOR CH 1/16W 10K	1	
		R6501	D1BA8200A022	M.RESISTOR CH 1/16W 820	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)
		R6502	D1BA1200A022	M.RESISTOR CH 1/16W 120	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)
		R6503	D1BA1500A022	M.RESISTOR CH 1/16W 150	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)

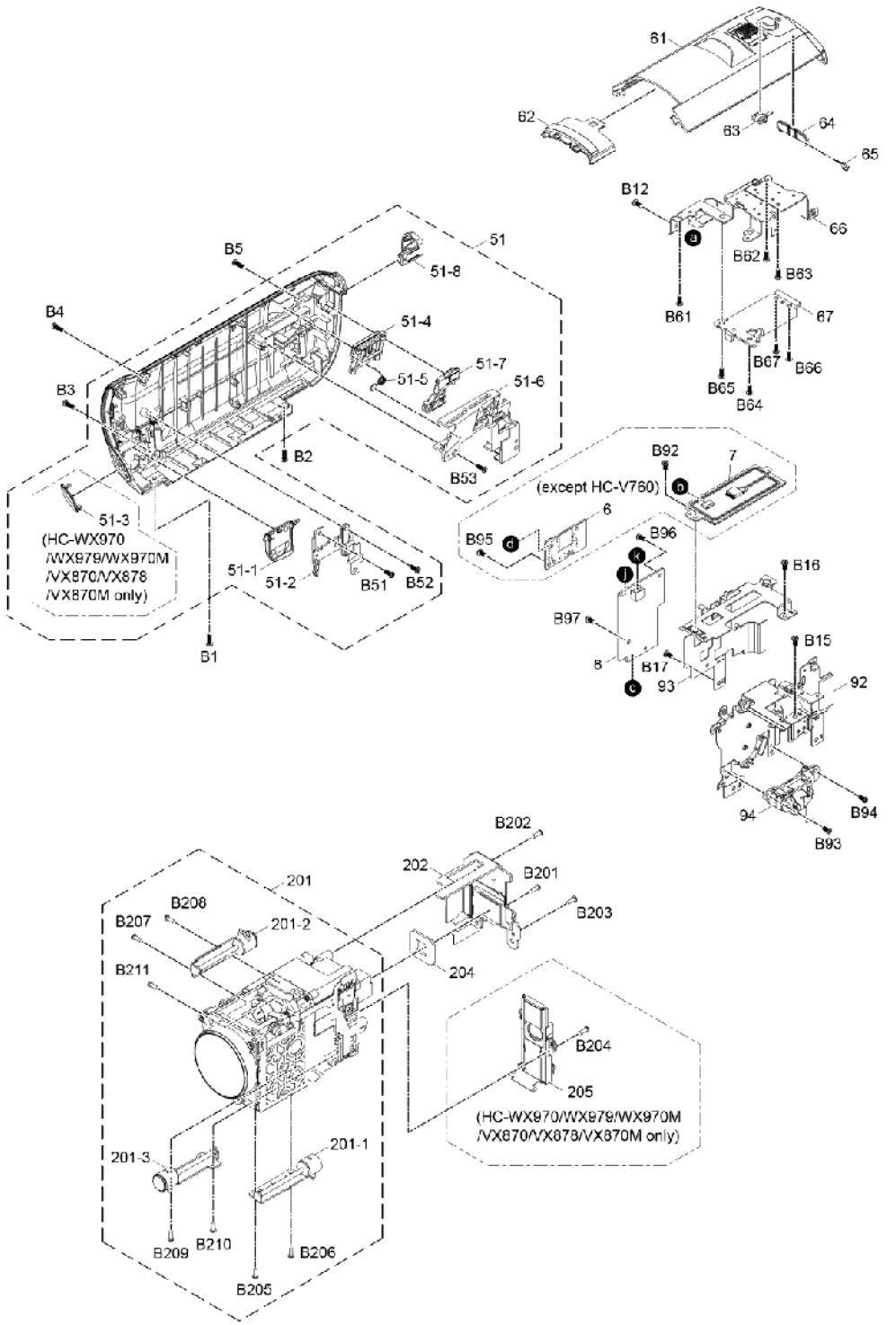
		R6504	D1BA8200A022	M.RESISTOR CH 1/16W 820	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)
		R6511	ERJ3RQF3R9V	M.RESISTOR CH 1/10W 3.9	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)

Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760nbsp; Parts List

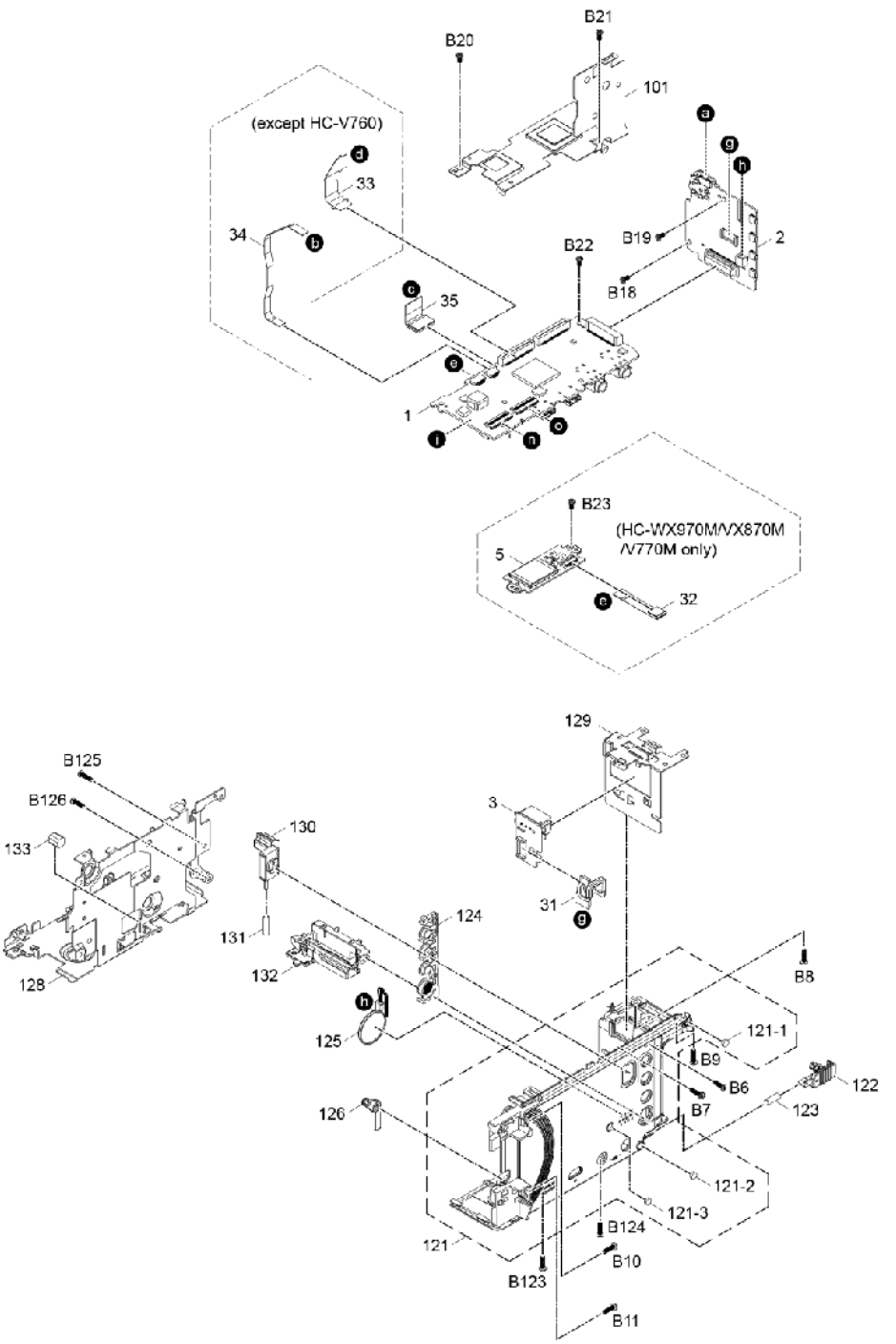
Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R6512	ERJ3RQF3R9V	M.RESISTOR CH 1/10W 3.9	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)
		RX901	D1H88204A042	RESISTOR NETWORKS	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		RX902	D1H88204A042	RESISTOR NETWORKS	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		RX903	D1H88204A042	RESISTOR NETWORKS	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		RX904	D1H88204A042	RESISTOR NETWORKS	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		RX3401	D1H82204A042	RESISTOR NETWORKS	1	
		RX3402	D1H85604A042	RESISTOR NETWORKS	1	(WX970M,VX870M,V770M)
		RX3404	D1H81034A042	RESISTOR NETWORKS	1	
		RX3405	D1H81034A042	RESISTOR NETWORKS	1	
		RX3407	D1H85604A042	RESISTOR NETWORKS	1	(except V760)
		RX3408	D1H84734A042	RESISTOR NETWORKS	1	
		RX3409	D1H84734A042	RESISTOR NETWORKS	1	
		RX3414	D1H84734A042	RESISTOR NETWORKS	1	
		RX3415	D1H81034A042	RESISTOR NETWORKS	1	
		RX3417	D1H81034A042	RESISTOR NETWORKS	1	
		RX3418	D1H84724A042	RESISTOR NETWORKS	1	
		RX3419	D1H81034A042	RESISTOR NETWORKS	1	
		RX3420	D1H81034A042	RESISTOR NETWORKS	1	
		RX3421	D1H81034A042	RESISTOR NETWORKS	1	
		RX3931	D1H81004A042	RESISTOR NETWORKS	1	
		RX3932	EXB28V103JX	RESISTOR NETWORKS	1	
		RX3951	D1H81034A042	RESISTOR NETWORKS	1	(WX970M,VX870M,V770M)
		RX3952	D1H81034A042	RESISTOR NETWORKS	1	(except V760)
		S6001	ESE18L12BXFD	SWITCH	1	
		S6401	K0H1BA000580	SWITCH	1	
		S6402	K0H1BA000580	SWITCH	1	
		S6403	K0H1BA000580	SWITCH	1	
		S6404	K0H1BA000580	SWITCH	1	(except V760)
		S6405	K0F111A00475	SWITCH	1	
		TH3401	D4CC11030013	THERMISTORS	1	
		VA251	D4ED16R80001	VARISTOR	1	(WX970,WX979,WX970M)
		VA252	D4ED16R80001	VARISTOR	1	(WX970,WX979,WX970M)
		VA501	D4ED18R00008	VARISTOR	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		VA502	D4ED18R00008	VARISTOR	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		VA503	D4ED18R00008	VARISTOR	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		VA504	D4ED18R00008	VARISTOR	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		VA906	D4ED16R80001	VARISTOR	1	(VX870/V770/V760 series is checked on a P.C.B. figure)
		VA1502	D4ED1270A011	VARISTOR	1	
		VA6403	D4EDY1310001	VARISTOR	1	
		VA6405	D4EDY1310001	VARISTOR	1	
		VA6406	D4EDY1310001	VARISTOR	1	
		VA6407	D4EDY1310001	VARISTOR	1	
		VA6408	D4EDY1310001	VARISTOR	1	
		VA6456	D4EDY1310001	VARISTOR	1	
		VA6701	D4EDY1310001	VARISTOR	1	
		VA6702	D4EDY1310001	VARISTOR	1	
		X2303	H0J327200085	CRYSTAL OSCILLATOR	1	
		X3402	H1A7205B0005	CRYSTAL OSCILLATOR	1	

		ZB6501	SMX0014	LED SPACER	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)
		ZJ7503	SEE0124	PHOTO LIGHT WIRE	1	

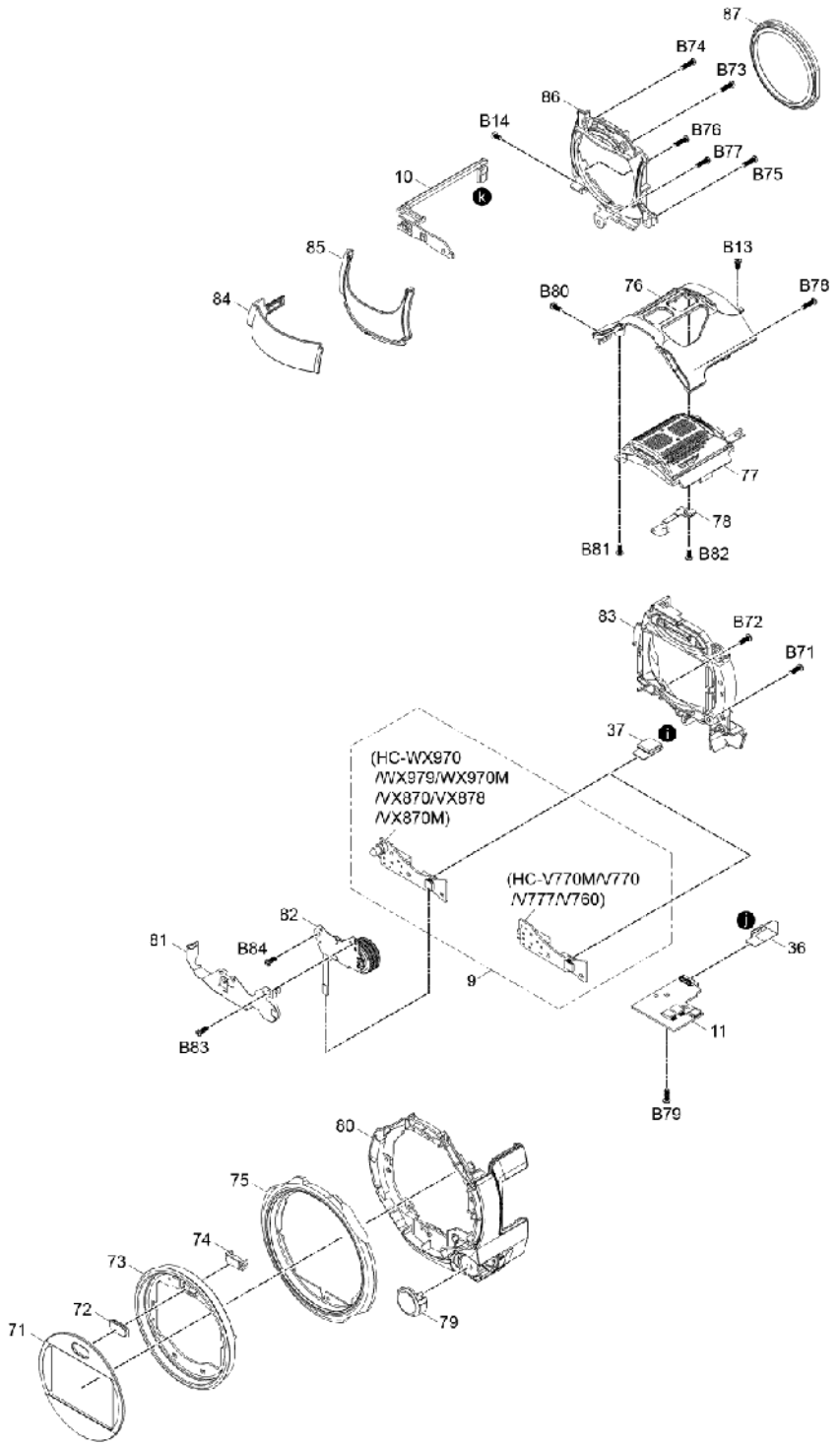
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 Frame and Casing Section (1)



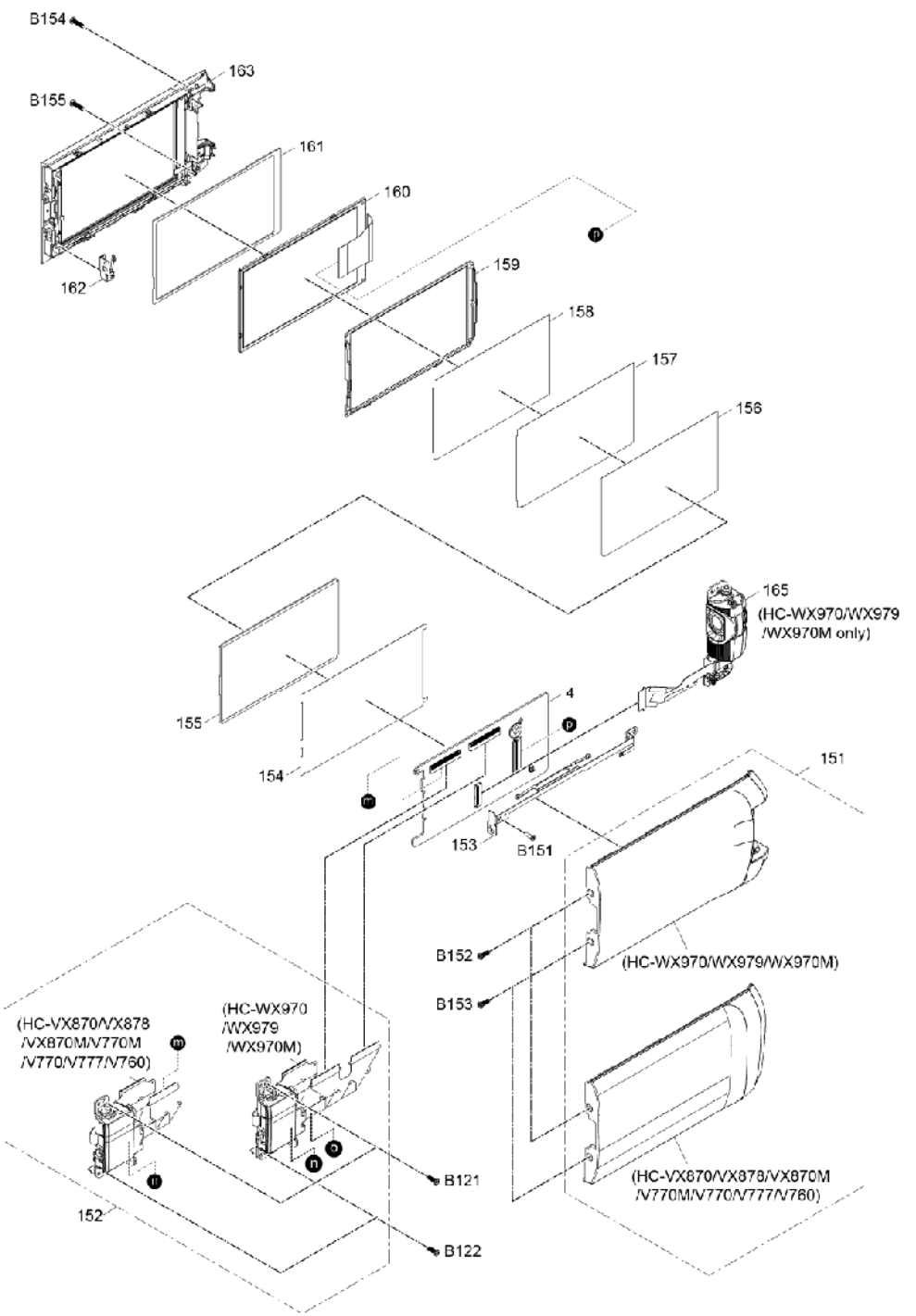
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 Frame and Casing Section (2)



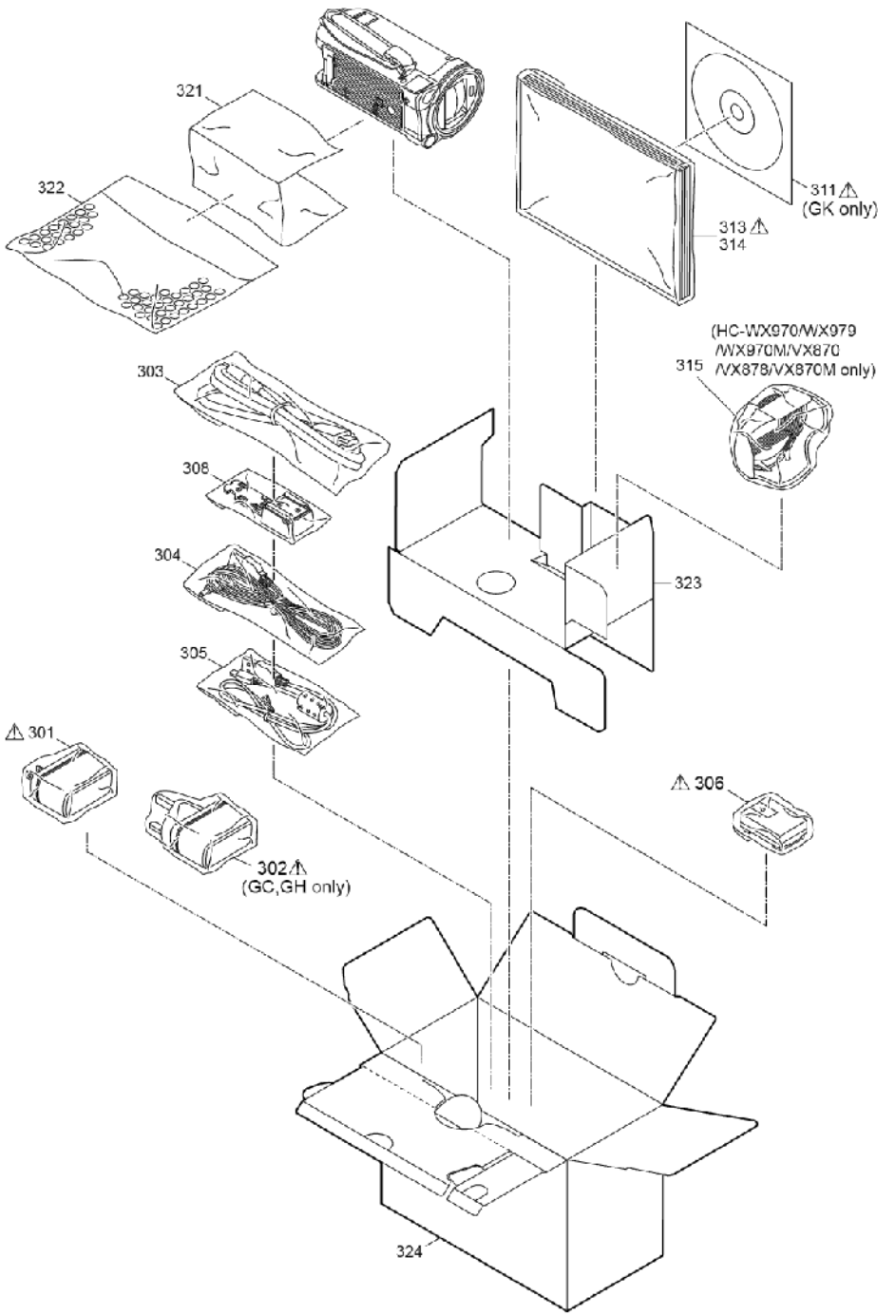
Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 Frame and Casing Section (3)



Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 LCD Section



Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 Packing Parts and Accessories Section



Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760 Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		1	SEP0276AB	MAIN P.C.B.	1	(RTL) E.S.D. (WX970M)
		1	SEP0276AC	MAIN P.C.B.	1	(RTL) E.S.D. (WX970,WX979)
		1	SEP0276AH	MAIN P.C.B.	1	(RTL) E.S.D. (VX870M)
		1	SEP0276AG	MAIN P.C.B.	1	(RTL) E.S.D. (VX870,VX878)
		1	SEP0276AD	MAIN P.C.B.	1	(RTL) E.S.D. (V770M)
		1	SEP0276AE	MAIN P.C.B.	1	(RTL) E.S.D. (V770,V777)
		1	SEP0276AF	MAIN P.C.B.	1	(RTL) E.S.D. (V760)
		2	SEP0006AA	SD HOLDER P.C.B.	1	(RTL) E.S.D. (except V760)
		2	SEP0006AB	SD HOLDER P.C.B.	1	(RTL) E.S.D. (V760)
		3	SEP0033AA	BATT. CATCHER P.C.B.	1	(RTL)
		4	SEP0280AA	MONITOR P.C.B.	1	(RTL) E.S.D. (WX970,WX979,WX970M)
		4	SEP0007AA	MONITOR P.C.B.	1	(RTL) E.S.D. (VX870M,V770M,VX870, VX878,V770,V777,V760)
		5	VEP03J60Y	ESD P.C.B. UNIT	1	E.S.D. (WX970M,VX870M,V770M)
		6	VEP06G78G	Wi-Fi P.C.B.	1	E.S.D. (except GK,V760)
		6	VEP06G78L	Wi-Fi P.C.B.	1	E.S.D. GK
		7	SEQ0008	NFC P.C.B. UNIT	1	E.S.D. (except V760)
		8	SEP0298AA	PHOTO LIGHT DRV P.C.B.	1	E.S.D.
		9	SEP0009AA	FRONT P.C.B.	1	(RTL) E.S.D. (WX970,WX979,WX970M, VX870M,VX870,VX878)
		9	SEP0009AB	FRONT P.C.B.	1	(RTL) E.S.D. (V770M,V770,V777,V760)
		10	SEP0300AA	PHOTO LIGHT P.C.B.	1	(RTL) E.S.D.
		11	SEP0299AA	MIC P.C.B.	1	(RTL) E.S.D.
		31	SEE0003	BATT. CATCHER WIRE	1	
		32	SEQ0007	ESD FFC UNIT	1	(WX970M,VX870M,V770M)
		33	VWJ2365	Wi-Fi FPC	1	(except V760)
		34	STJ0013	NFC FFC	1	(except V760)
		35	STJ0014	PHOTO LIGHT FFC	1	
		36	STJ0008	MIC FFC	1	
		37	STJ0006	FRONT FFC	1	
		51	SYK0772	SIDE CASE-L UNIT	1	(WX970,WX979,WX970M,VX870M,VX870, VX878)
		51	SYK0824	SIDE CASE-L UNIT	1	(-K)(V770M,V770,V777,V760)
		51	SYK0832	SIDE CASE-L UNIT	1	(-W)(V770,V777,V760)
		51-1	SKQ0003K	HP JACK COVER	1	(-K)
		51-1	SKQ0043W	HP JACK COVER	1	(-W)
		51-2	SGQ0028	HP JACK COVER PIECE	1	
		51-3	SGQ0022	IR PIECE	1	(WX970,WX979,WX970M,VX870M,VX870, VX878)
		51-4	SYK0150	DC JACK COVER UNIT	1	(-K)
		51-4	SYK0764	DC JACK COVER UNIT	1	(-W)
		51-5	VMB4656	JACK DOOR SPRING	1	
		51-6	SGQ0026	JACK COVER PIECE	1	
		51-7	VGQ1J19	SS LEVER	1	
		51-8	SGU0110	SS BUTTON	1	(WX970,WX979,WX970M,VX870M,VX870, VX878)
		51-8	SGU0011	SS BUTTON	1	(V770M,V770,V777,V760)
		61	SKK0184K	TOP CASE	1	(WX970,WX979,WX970M,VX870M,VX870, VX878)
		61	SKK0185K	TOP CASE	1	(-K)(V770M,V770,V777)
		61	SKK0236W	TOP CASE	1	(-W)(V770,V777)
		61	SKK0235K	TOP CASE	1	(-K)(V760)
		61	SKK0235W	TOP CASE	1	(-W)(V760)
		62	SGK0105K	TOP ORNAMENT	1	(WX970,WX979,WX970M,VX870M,VX870, VX878)
		62	SGK0019K	TOP ORNAMENT	1	(V770M,V770,V777,V760)
		63	VGL1447	POWER PANEL LIGHT	1	
		64	VKF4851	SHOE COVER	1	(-K)
		64	VKF4884	SHOE COVER	1	(-W)

		65	VMB4725	COVER OPEN SPRING	1	

Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760nbsp; Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		66	K0RE00300033	TOP OPERATION	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)
		66	K0RE00300027	TOP OPERATION	1	(V770M,V770,V777,V760)
		67	VMP9941	TOP SHOE ANGLE	1	
		71	SGQ0288	HOOD PIECE	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)
		71	SGQ0019	HOOD PIECE	1	(V770M,V770,V777,V760)
		72	VGL1381	LED LIGHT COVER	1	
		73	SGQ0020	HOOD MASK	1	
		74	VDL2652	LED LIGHT LENS	1	
		75	SGK0020K	FRONT RING	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)
		75	SGK0020T	FRONT RING	1	(V770M,V770,V777,V760)
		76	SKK0231K	MIC NET COVER	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)
		76	SKK0234K	MIC NET COVER	1	(-K)(V770M,V770,V777,V760)
		76	SKK0071W	MIC NET COVER	1	(-W)(V770,V777,V760)
		77	SYK0987	MIC CASE UNIT	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)
		77	SYK0408	MIC CASE UNIT	1	(V770M,V770,V777,V760)
		78	SMA0030	MIC EARTH PLATE	1	
		79	SGK0104K	MF ORNAMENT	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)
		79	SGK0017K	MF ORNAMENT	1	(V770M,V770,V777,V760)
		80	SYK0528	FRONT ORNAMENT UNIT	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)
		80	SYK0529	FRONT ORNAMENT UNIT	1	(-K)(V770M,V770,V777,V760)
		80	SYK0154	FRONT ORNAMENT UNIT	1	(-W)(V770,V777,V760)
		81	SMA0014	FR EARTH ANGLE	1	
		82	K0RE00300034	KURUPON UNIT	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)
		82	K0RE00300035	KURUPON UNIT	1	(V770M,V770,V777,V760)
		83	SKK0072K	FRONT CASE	1	
		84	SGQ0023	BARRIER F	1	
		85	SGQ0024	BARRIER R	1	
		86	SGQ0025	FRONT BASE	1	
		87	SMG0003	LENS DAMPER RUBBER	1	
		92	SYK0409	LENS FRAME UNIT	1	
		93	SYK0410	Wi-Fi FRAME UNIT	1	
		94	N9ZZ00000450	BARRIER MOTOR UNIT	1	
		101	SYD0013	HEAT RADIATION PLATE UNIT	1	
		121	SYK0767	SIDE CASE R(1) UNIT	1	(except V760)
		121	SYK0837	SIDE CASE R(1) UNIT	1	(V760)
		121-1	VMG1822-A	LCD CUSHION	1	
		121-2	VMG1822-A	LCD CUSHION	1	
		121-3	VMG1822-A	LCD CUSHION	1	
		122	SGU0009	BATT. LOCK BUTTON	1	
		123	VMB4482	BATT. LOCK SPRING	1	
		124	SGU0007	SR OP BUTTON	1	(except V760)
		124	SGU0008	SR OP BUTTON	1	(V760)
		125	L0AA01A00162	SPEAKER	1	
		126	SGQ0014	LCD LEVER	1	
		128	SYQ0015	BR FRAME UNIT	1	
		129	SGF0009	BATT. FRAME	1	
		130	SGU0010	SHOE LOCK KNOB	1	
		131	VMB4728	SHOE LOCK SPRING	1	
		132	SYQ0032	SD DOOR UNIT	1	
		133	VGQ9672	GASKET	1	
		151	SYK0768	LCD CASE (T) UNIT	1	(WX970M)

		151	SYK0780	LCD CASE (T) UNIT	1	(WX970)
		151	SYK0783	LCD CASE (T) UNIT	1	(WX979)
		151	SYK0844	LCD CASE (T) UNIT	1	(VX870M)

Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760nbsp; Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		151	SYK0786	LCD CASE (T) UNIT	1	(VX870)
		151	SYK0789	LCD CASE (T) UNIT	1	(VX878)
		151	SYK0823	LCD CASE (T) UNIT	1	(V770M)
		151	SYK0826	LCD CASE (T) UNIT	1	(-K)(V770)
		151	SYK0828	LCD CASE (T) UNIT	1	(-K)(V777)
		151	SYK0835	LCD CASE (T) UNIT	1	(-W)(V770)
		151	SYK0830	LCD CASE (T) UNIT	1	(-W)(V777)
		151	SYK0838	LCD CASE (T) UNIT	1	(-K)(V760)
		151	SYK0841	LCD CASE (T) UNIT	1	(-W)(V760)
		152	SYQ0206	LCD HINGE UNIT	1	(WX970,WX979,WX970M)
		152	SYQ0356	LCD HINGE UNIT	1	(VX870,VX878,VX870M)
		152	SYQ0225	LCD HINGE UNIT	1	(-K)(V770M,V770,V777,V760)
		152	SYQ0028	LCD HINGE UNIT	1	(-W)(V770,V777,V760)
		153	SGF0011	LCD FRAME A	1	
		154	VGL1449	REFLECTION SHEET	1	
		155	VKW3518	LIGHT GUIDE PLATE	1	
		156	VGL1384	DIFFUSION SHEET	1	
		157	VGL1460	PRISM SHEET B	1	
		158	SGQ0313	PRISM SHEET A	1	
		159	SGQ0002	LGP HOLDER	1	
		160	L5BDDYY00073	LCD	1	
		161	SGQ0001	TP TAPE	1	
		162	SGF0002	LCD FRAME B	1	
		163	SYK0986	LCD CASE (B) UNIT	1	(WX970,WX979,WX970M)
		163	SYK0411	LCD CASE (B) UNIT	1	(VX870M,V770M,VX870,VX878,V770,V777,V760)
		165	SYK0769	SUB CAMERA UNIT	1	(WX970,WX979,WX970M)
		201	SXW0161	LENS UNIT	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)
		201	SXW0001	LENS UNIT	1	(V770M,V770,V777,V760)
		201-1	L6HAYYYB0011	2ND STEPPING MOTOR	1	
		201-2	L6HAYYYC0056	3RD STEPPING MOTOR	1	
		201-3	L6HAYYYB0012	4TH STEPPING MOTOR	1	
		202	SXQ0251	MOS UNIT	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)
		202	SXQ0001	MOS UNIT	1	(V770M,V770,V777,V760)
		204	SMT0022	MOS CUSHION	1	
		205	SXQ0002	IR KUDOU UNIT	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)
		B1	XQN16+B5FJK	SCREW	1	
		B2	XQN16+B5FJK	SCREW	1	
		B3	XQN16+B5FJK	SCREW	1	
		B4	XQN16+B5FJK	SCREW	1	
		B5	XQN16+B5FJK	SCREW	1	
		B6	XQN16+B5FJK	SCREW	1	
		B7	XQN16+BJ6FJK	SCREW	1	
		B8	XQN16+BJ6FJK	SCREW	1	
		B9	XQN16+BJ6FJK	SCREW	1	
		B10	XQN16+BJ6FJK	SCREW	1	
		B11	XQN16+BJ6FJK	SCREW	1	
		B12	XQN16+B3FN	SCREW	1	
		B13	XQN16+B3FN	SCREW	1	
		B14	XQN16+B3FN	SCREW	1	
		B15	XQN16+B3FN	SCREW	1	
		B16	XQN16+B3FN	SCREW	1	
		B17	XQN16+B3FN	SCREW	1	
		B18	VHD1919	SCREW	1	
		B19	VHD1919	SCREW	1	

		B20	VHD1919	SCREW	1	
		B21	VHD1919	SCREW	1	
		B22	VHD1919	SCREW	1	
		B23	VHD1919	SCREW	1	(WX970M,VX870M,V770M)

Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760nbsp; Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		B51	XQN16+BJ4FN	SCREW	1	
		B52	XQN16+BJ4FN	SCREW	1	
		B53	XQN16+BJ4FN	SCREW	1	
		B61	XQN16+BJ4FN	SCREW	1	
		B62	XQN16+BJ4FN	SCREW	1	
		B63	XQN16+BJ4FN	SCREW	1	
		B64	XQS2+AJ5FN	SCREW	1	
		B65	XQS2+AJ5FN	SCREW	1	
		B66	XQS2+AJ5FN	SCREW	1	
		B67	XQS2+AJ5FN	SCREW	1	
		B71	XQN16+BJ5FJK	SCREW	1	
		B72	XQN16+BJ5FJK	SCREW	1	
		B73	XQN16+BJ6FN	SCREW	1	
		B74	XQN16+BJ6FN	SCREW	1	
		B75	XQN16+BJ6FN	SCREW	1	
		B76	XQN16+BJ6FN	SCREW	1	
		B77	XQN16+BJ6FN	SCREW	1	
		B78	XQN16+BJ6FN	SCREW	1	
		B79	XQN16+BJ5FJK	SCREW	1	
		B80	XQN16+BJ4FN	SCREW	1	
		B81	XQN16+BJ4FN	SCREW	1	
		B82	XQN16+BJ4FN	SCREW	1	
		B83	XQN16+BJ4FN	SCREW	1	
		B84	XQN16+BJ4FN	SCREW	1	
		B92	XQN16+B3FN	SCREW	1	(except V760)
		B93	VHD1919	SCREW	1	
		B94	VHD1919	SCREW	1	
		B95	XQN16+B3FN	SCREW	1	(except V760)
		B96	XQN16+B3FN	SCREW	1	
		B97	XQN16+B3FN	SCREW	1	
		B121	VHD1411	SCREW	1	
		B122	VHD1411	SCREW	1	
		B123	XQN16+B3FJK	SCREW	1	
		B124	XQN16+B3FJK	SCREW	1	
		B125	XQN16+BJ4FN	SCREW	1	
		B126	XQN16+BJ4FN	SCREW	1	
		B151	XQN14+BJ4FN	SCREW	1	
		B152	VHD1688	SCREW	1	
		B153	VHD1688	SCREW	1	
		B154	XQN16+BJ6FJK	SCREW	1	
		B155	XQN16+BJ6FJK	SCREW	1	
		B201	VHD2072	SCREW	1	
		B202	VHD2072	SCREW	1	
		B203	VHD2072	SCREW	1	
		B204	VHD2072	SCREW	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)
		B205	VHD2072	SCREW	1	
		B206	VHD2072	SCREW	1	
		B207	VHD2072	SCREW	1	
		B208	VHD2072	SCREW	1	
		B209	VHD2072	SCREW	1	
		B210	VHD2072	SCREW	1	
		B211	VHD2072	SCREW	1	
	⚠	301	VSK0815F	AC ADAPTOR	1	PP,PU
	⚠	301	VSK0815H	AC ADAPTOR	1	GK
	⚠	301	VSK0815K	AC ADAPTOR	1	EG,EF,EP,EE,GC,GW,EC
	⚠	301	VSK0815L	AC ADAPTOR	1	EB

	⚠	301	VSK0815M	AC ADAPTOR	1	GN
	⚠	302	VSK0815N	AC ADAPTOR	1	GC,GH
		303	K1HY19YY0038	MICRO HDMI CABLE	1	
		304	K2GHYYS00002	DC CABLE	1	
		305	K2KYYYY00236	USB CABLE	1	

Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760nbsp; Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	⚠	306	-----	BATTERY PACK	1	PP
	⚠	306	-----	BATTERY PACK	1	PU,EG,EF,EP,EB,EE,GC,GN,GH,GW,EC
	⚠	306	-----	BATTERY PACK	1	GK
		308	VYC1055-A	SHOE ADPTOR	1	
	⚠	311	SFM0072	CD-ROM(O/I)	1	GK
	⚠	313	SQT0650	OPERATING INSTRUCTIONS (ENGLISH/FRENCH)	1	PP
	⚠	313	SQT0651	OPERATING INSTRUCTIONS (SPANISH)	1	PU
	⚠	313	SQT0652	OPERATING INSTRUCTIONS (GERMAN/ITALIAN)	1	EG
	⚠	313	SQT0653	OPERATING INSTRUCTIONS (FRENCH/DUTCH)	1	EG,EF
	⚠	313	SQT0654	OPERATING INSTRUCTIONS (TURKISH)	1	EG
	⚠	313	SQT0655	OPERATING INSTRUCTIONS (SPANISH/PORTUGUESE)	1	WX970EG,VX870EG,EC
	⚠	313	SQT0656	OPERATING INSTRUCTIONS (SWEDISH/DANISH)	1	WX970EG,VX870EG,EC
	⚠	313	SQT0657	OPERATING INSTRUCTIONS (FINNISH)	1	WX970EG,VX870EG,EC
	⚠	313	SQT0658	OPERATING INSTRUCTIONS (ENGLISH)	1	EP,EB
	⚠	313	SQT0659	OPERATING INSTRUCTIONS (POLISH/CZECH)	1	EP
	⚠	313	SQT0660	OPERATING INSTRUCTIONS (HUNGARIAN)	1	EP
	⚠	313	SQT0661	OPERATING INSTRUCTIONS (ENGLISH)	1	GC,GW,GN,GH
	⚠	313	SQT0662	OPERATING INSTRUCTIONS (ARABIC)	1	GC
	⚠	313	SQT0663	OPERATING INSTRUCTIONS (RUSSIAN/UKRAINIAN)	1	EE
	⚠	313	SQT0664	OPERATING INSTRUCTIONS (CHINESE(SIMPLIFIED))	1	GK
	⚠	313	SQT0800	OPERATING INSTRUCTIONS (CHINESE(TRADITIONAL))	1	GH
		314	VPF1545	BAG, POLYETHYLENE	1	
		315	SYK0602	LENS HOOD UNIT	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)
		321	LSMF0623	PROTECT SHEET	1	
		322	VPF1560	PROTECT BAG	1	
		323	SPN0189	PAD	1	(WX970,WX979,WX970M,VX870M,VX870,VX878)
		323	VPN7770	PAD	1	(V770M,V770,V777,V760)
		324	SPG0165	PACKING CASE	1	VX870MGN-K,VX870MGH-K
		324	SPG0167	PACKING CASE	1	VX870PP-K,VX870EG-K,VX870EF-K,VX870EP-K,VX870EB-K,VX870GW-K,VX870EE-K
		324	SPG0168	PACKING CASE	1	VX870GC-K
		324	SPG0170	PACKING CASE	1	VX878EG-K
		324	SPG0171	PACKING CASE	1	WX970EG-K,WX970PP-K,WX970EF-K,WX970EP-K,WX970EB-K,WX970EE-K,WX970GW-K
		324	SPG0172	PACKING CASE	1	WX970GC-K
		324	SPG0174	PACKING CASE	1	WX979EG-K
		324	SPG0176	PACKING CASE	1	WX970MGN-K,WX970MGH-K
		324	SPG0197	PACKING CASE	1	V760EE-K
		324	SPG0198	PACKING CASE	1	V770PP-K,V770EG-K,V770EC-K,V770EF-K,V770EP-K,V770EB-K,V770GW-K,V770EE-K
		324	SPG0200	PACKING CASE	1	V770GC-K
		324	SPG0201	PACKING CASE	1	V777EG-K
		324	SPG0202	PACKING CASE	1	V770MGN-K

		324	SYQ0252	PACKING CASE UNIT	1	VX870MGK-K
		324	SYQ0254	PACKING CASE UNIT	1	VX870PU-K
		324	SYQ0255	PACKING CASE UNIT	1	VX870GK-K
		324	SYQ0256	PACKING CASE UNIT	1	WX970PU-K
		324	SYQ0258	PACKING CASE UNIT	1	WX970GK-K

Model No. : HC-WX970/WX979/WX970M/VX870/VX878/VX870M/V770/V777/V770M/V760nbsp; Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		324	SYQ0259	PACKING CASE UNIT	1	WX970MGK-K
		324	SYQ0267	PACKING CASE UNIT	1	V760EE-W
		324	SYQ0268	PACKING CASE UNIT	1	V770EP-W,V770EB-W
		324	SYQ0270	PACKING CASE UNIT	1	V770GK-K
		324	SYQ0271	PACKING CASE UNIT	1	V777EG-W
		324	SYQ0272	PACKING CASE UNIT	1	V770MGK-K