

# Service Manual

High Definition Video Camera

Model No. **HDC-Z1000P**  
**HDC-Z1000E**  
**HDC-Z1000GC**  
**HDC-Z1000GK**

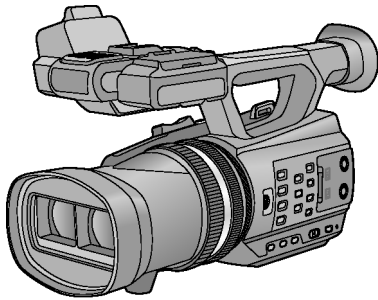
**AVCHD**™  
3D/Progressive

**HDMI**

**SD**  
**XC**

**DOLBY**  
DIGITAL  
5.1 CREATOR

**3D**  
FULL HD



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

## **⚠ WARNING**

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

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# 1 Safety Precautions

## 1.1. General Guidelines

### 1. IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by  in the Schematic Diagrams, Circuit Board Layout, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent X-RADIATION, shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

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

## 1.2. Leakage Current Cold Check

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

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

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

Hot-Check Circuit

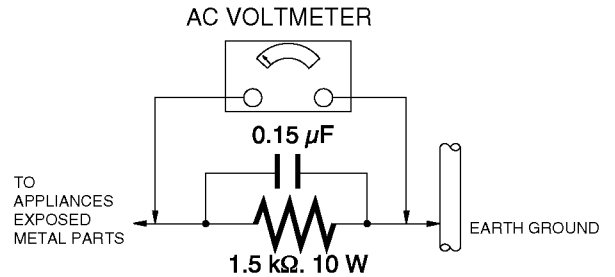


Figure. 1

## 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)

<b>ENGLISH</b>		A lithium ion/polymer battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.
<b>FRANÇAIS</b>		L'appareil que vous vous êtes procuré est alimenté par une batterie au lithium-ion/lithium-polymère. Pour des renseignements sur le recyclage de la batterie, veuillez composer le 1-800-8-BATTERY.

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

### 2.3.1. Information for Your Safety

#### IMPORTANT

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

#### WARNING

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

#### CAUTION

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

#### FOR YOUR SAFETY

##### DO NOT REMOVE THE OUTER COVER

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

### 2.3.2. Caution for AC Mains Lead

For your safety, please read the following text carefully.

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

A 5-ampere fuse is fitted in this plug.

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

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



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

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

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

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

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

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

If in any doubt, please consult a qualified electrician.

### 2.3.2.1. Important

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

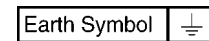
Blue	Neutral
Brown	Live

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

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

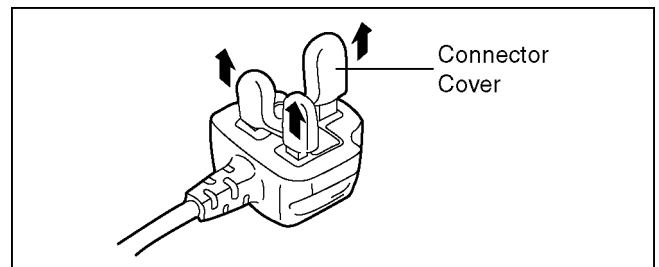
The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

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



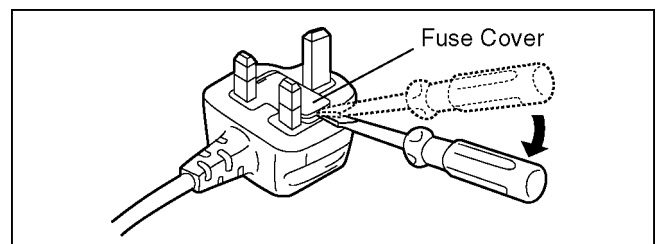
### 2.3.2.2. Before Use

Remove the Connector Cover as follows.

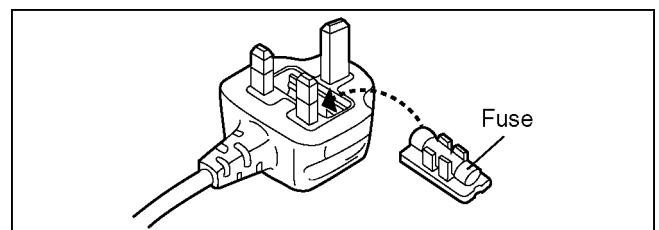


### 2.3.2.3. How to Replace the Fuse

1. Remove the Fuse Cover with a screwdriver.



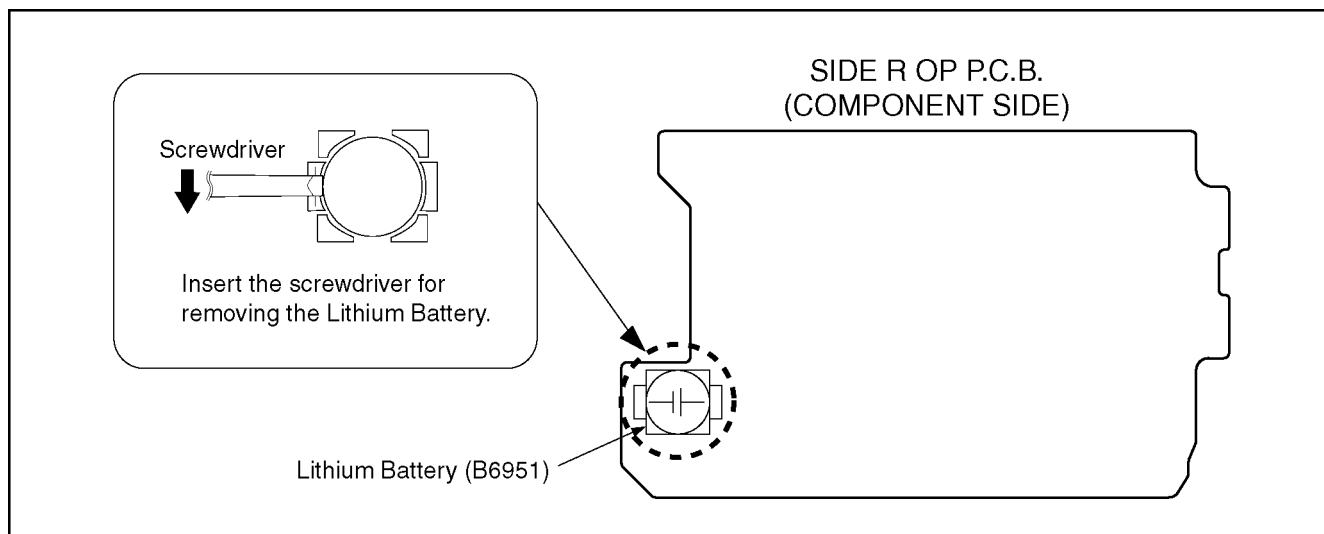
2. Replace the fuse and attach the Fuse cover.



## 2.4. How to Replace the Lithium Battery

### 2.4.1. Replacement Procedure

1. Remove the SIDE\_R\_OP P.C.B.. (Refer to Disassembly Procedures.)
2. Remove the Lithium battery (Ref. No. "B6951" at component side of SIDE\_R\_OP P.C.B.) and then replace it into new one.



#### NOTE:

This Lithium battery is a critical component.

(Type No.: ML-614S/ZTK **Manufactured by Energy Company, Panasonic Corporation**)

It must never be subjected to excessive heat or discharge.

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

Replacement batteries must be of same type and manufacture.

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

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

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

#### (For English)

### CAUTION

Danger of explosion if battery is incorrectly replaced.

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

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

#### (For German)

### ACHTUNG

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

Behandeln Sie gebrauchte Batterien nach den Anweisungen des Herstellers.

#### (For French)

### MISE EN GARDE

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

# 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)	<b>PbF</b>
--	------------

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

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

### Recommended Lead Free Solder (Service Parts Route.)

- The following 3 types of lead free solder are available through the service parts route.
  - RFKZ03D01KS----- (0.3mm 100g Reel)
  - RFKZ06D01KS----- (0.6mm 100g Reel)
  - RFKZ10D01KS----- (1.0mm 100g Reel)

### Note

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

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

1. The service manual does not contain the following information, because of the impossibility of servicing at component level without concerned equipment/facilities.
  - a. Schematic diagram, Block Diagram and P.C.B. layout of MAIN P.C.B..
  - b. Parts list for individual parts for MAIN P.C.B..
 When a part replacement is required for repairing MAIN P.C.B., replace as an assembled parts. (Main P.C.B.)
2. The following category is /are recycle module part. Please send it/them to Central Repair Center.
  - MAIN P.C.B. (VEP03J34A: HDC-Z10000E/GC/GK/P)

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

There are seven kinds of HDC-Z10000.

- a) HDC-Z10000P
- b) HDC-Z10000E
- c) HDC-Z10000GC
- d) HDC-Z10000GK

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

### 3.4.1. Defining methods:

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

**a) HDC-Z10000P**

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



**b) HDC-Z10000E**

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



**c) HDC-Z10000GC**

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



**d) HDC-Z10000GK**

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

**NOTE:**

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

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

## 3.5. Formatting

### Formatting cards

If you use the SD cards for the first time for recording with this unit, format the cards. Please be aware that if a medium is formatted, then all the data recorded on the medium will be erased and cannot be restored. Back up important data on a PC, disc etc. (→ 93)

- When using two SD cards, format both SD cards.

#### 1 Select the menu.

 : [OTHER FUNCTION] → [FORMAT CARD]

#### 2 Touch [SD CARD 1] or [SD CARD 2].

- When formatting is complete, touch [EXIT] to exit the message screen.

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

**Use this unit to format media.**

**Do not format an SD card using any other equipment such as a PC. The card may not be used on this unit.**

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

- Formatting and deletion of this unit or computer only changes the file management information and does not completely delete the data in the SD card.
- It is recommended that the main SD card is either physically destroyed or the SD card is physically formatted using this unit when disposing of or giving away the SD card.
- To physically format, connect this unit to the AC adaptor, select [OTHER FUNCTION] → [FORMAT CARD] → [SD CARD 1] or [SD CARD 2] from the menu, and touch [YES]. Press and hold recording start/stop button in the following screen for three seconds. Screen to delete the SD card data is displayed, so select [YES] and follow the instruction on the screen.



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

## 4 Specifications

### High Definition Video Camera

Information for your safety

<b>Power source:</b>	DC 12 V (When using AC adaptor) DC 7.2 V (When using battery)
<b>Power consumption:</b>	16.7 W

#### Recording format:

AVCHD format version 2.0 compliant  
(AVCHD 3D/Progressive)

#### Motion picture compression:

3D Recording Mode; MPEG-4 MVC/H.264  
2D Recording Mode; MPEG-4 AVC/H.264

#### Audio compression:

Dolby Digital (5.1 ch/2 ch), Linear PCM (2 ch)

#### Recording mode and transfer rate:

3D Recording Mode

[1080/60i], [1080/30p], [1080/24p]; Maximum 28 Mbps (VBR)

2D Recording Mode

[1080/60p]; Maximum 28 Mbps (VBR)

[PH], [1080/30p], [1080/24p]; Maximum 24 Mbps (VBR)

[HA]; Average 17 Mbps (VBR)

[HE]; Average 5 Mbps (VBR)

#### Still picture recording format:

3D still pictures; MPO corresponding

2D still pictures; JPEG corresponding (Design rule for Camera File system, based on Exif 2.2 standard)

#### Recording media:

SD Memory Card (FAT12 and FAT16 system compliant)

SDHC Memory Card (FAT32 system compliant)

SDXC Memory Card (exFAT system compliant)

**Image sensor:**

1/4.1" 3MOS image sensor ×2

Total; 9150 K (3050 K×3) ×2

Effective pixels;

3D Recording Mode

Motion picture/Still picture; 6210 K (2070 K×3) (16:9) ×2

2D Recording Mode

Motion picture/Still picture; 6570 K (2190 K×3) (16:9)

**Lens:**

Auto Iris optical zoom (Full range AF)

F value (focal length)

3D Recording Mode; F1.5 to F2.7 (Focal length; 2.84 mm to 28.4 mm)

2D Recording Mode; F1.5 to F2.8 (Focal length; 2.84 mm to 34.1 mm)

35 mm equivalent;

3D Recording Mode

Motion picture/Still picture; 32 mm to 320 mm (16:9)

2D Recording Mode

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

Minimum focus distance;

3D Recording Mode

Approx. 30 cm (0.98 feet) (Wide)/Approx. 1.2 m (3.9 feet) (Tele)

2D Recording Mode

Approx. 3.5 cm (1.4 ") (Wide)/Approx. 1.2 m (3.9 feet) (Tele)

**Zoom:**

3D Recording Mode; 10× optical zoom

2D Recording Mode; 12× optical zoom, 23× i.Zoom, 2×/5×/10× digital zoom

**Image stabilizer function:**

3D Recording Mode; Optical (Power O.I.S.)

2D Recording Mode; Optical (Hybrid Optical Image Stabilizer, Active Mode)

**Convergence point adjustment:**

Approx. 45 cm (1.5 feet) to Approx. 40 m (131.2 feet)

**Monitor:**

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

**Viewfinder:**

0.45" wide EVF (Approx. 1226 K dots)

**Microphone:**

5.1 channel surround microphone (with a zoom microphone/focus microphone function)/  
stereo microphone

**Speaker:**

1 round speaker, dynamic type

**White balance adjustment:**

Auto tracking white balance system

**Standard illumination:**

1,400 lx

**Minimum required illumination:**

Approx. 5 lx (1/30 with [AUTO SLOW SHTR] is set to [ON])

**AV multi connector video output level:**

Component video output level;

Y; 1.0 Vp-p, 75 Ω

Pb; 0.7 Vp-p, 75 Ω

Pr; 0.7 Vp-p, 75 Ω

AV video output level;

1.0 Vp-p, 75 Ω

**HDMI connector video output level:**

HDMI™ (x.v.Color™) 1080p/1080i/480p

**AV multi connector audio output level (Line):**

2 ch

**HDMI connector audio output level:**

Dolby Digital/Linear PCM

**Headphone output:**

3.5 mm (0.14 ") stereo mini jack

**XLR audio input terminals:**

XLR (3 pin) ×2 (INPUT1/INPUT2)

LINE; 0 dBu

MIC; -50 dBu/-60 dBu (switch with the menu)

**USB:**

Reader function (No copyright protection support)

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

**Dimensions:**

145 mm (W)×195 mm (H)×350 mm (D)

[5.70 " (W)×7.68 " (H)×13.8 " (D)] (excluding projecting parts)

**Mass (Weight):**

Approx. 1600 g (Approx. 3.53 lbs.)

[without battery (supplied) and an SD card (optional)]

**Mass (Weight) in operation:**

Approx. 1880 g (Approx. 4.14 lbs.)

[with battery (supplied) and an SD card (optional)]

**Operating temperature:**

0 °C to 40 °C (32 °F to 104 °F)

**Operating humidity:**

10%RH to 80%RH

**AC adaptor**

Information for your safety

<b>Power source:</b>	AC 110 V to 240 V, 50/60 Hz
<b>Power consumption:</b>	42 W
<b>DC output:</b>	DC 12 V, 2.5 A

**Dimensions:**

115 mm (W)×37 mm (H)×57 mm (D) [4.53 " (W)×1.46 " (H)×2.24 " (D)]

**Mass (Weight):**

Approx. 210 g (Approx. 0.46 lbs.)

**Battery charger**

Information for your safety

<b>Power source:</b>	AC 100 V to 240 V, 50/60 Hz
<b>Power consumption:</b>	0.4 A
<b>DC output:</b>	DC 8.4 V, 1.2 A

**Dimensions:**

70 mm (W)×44.5 mm (H)×116 mm (D) [2.76 " (W)×1.75 " (H)×4.57 " (D)]

**Mass (Weight):**

Approx. 160 g (Approx. 0.35 lbs.)

## Recording modes/approximate recordable time

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

3D/2D Recording Mode		3D Recording Mode		
Recording format		[1080/60i]	[1080/30p]	[1080/24p]
Recording method		AVCHD 3D		
Picture size		1920×1080/60i	1920×1080/60i	1920×1080/24p
SD card	4 GB	18 min		
	16 GB	1 h 15 min		
	64 GB	5 h 15 min		

3D/2D Recording Mode		2D Recording Mode		
Recording format (Interlace)		[PH]	[HA]	[HE]
Recording method		AVCHD		
Picture size		1920×1080/60i	1920×1080/60i	1920×1080/60i
SD card	4 GB	21 min	30 min	1 h 30 min
	16 GB	1 h 30 min	2 h	6 h 40 min
	64 GB	6 h	8 h 30 min	27 h 30 min

3D/2D Recording Mode		2D Recording Mode		
Recording format (Progressive)		[1080/60p]	[1080/30p]	[1080/24p]
Recording method		AVCHD Progressive	AVCHD	
Picture size		1920×1080/60p	1920×1080/60i	1920×1080/24p
SD card	4 GB	18 min	21 min	
	16 GB	1 h 15 min	1 h 30 min	
	64 GB	5 h 15 min	6 h	

- If recording for long periods, prepare batteries for 3 or 4 times the period you wish to record for.
- The default setting is [1080/60i] (3D Recording Mode)/[HA] (2D Recording Mode).
- Maximum continuously recordable time for one scene: 6 hours
- The recording is paused once when the recording time for one scene exceeds 6 hours, and the recording will automatically resume after a few seconds.
- The recordable time may be reduced if recording with a lot of action is recorded or recording of short scene is repeated.

## Approximate number of recordable pictures

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

When [3D/2D REC MODE] is set to [3D]

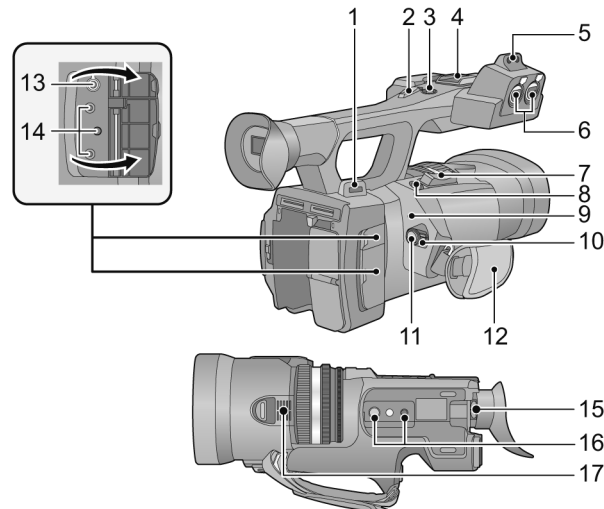
Picture size		2.1M 1920×1080
Recording format of the still picture		MPO and JPEG
SD card	4 GB	1000
	16 GB	4400
	64 GB	18000

When [3D/2D REC MODE] is set to [2D]

Picture size		3M 2304×1296
Recording format of the still picture		JPEG
SD card	4 GB	2400
	16 GB	10000
	64 GB	40000

- Number of recordable pictures when set to [3D] will be less than when set to [2D] since it will record both 3D still pictures and 2D still pictures simultaneously.
- Number of recordable pictures that can be displayed is 9999. If the number of recordable pictures exceeds 9999, R 9999+ is displayed. The number will not change when the picture is taken until the number of recordable pictures gets less than 9999.
- The memory capacity indicated on the label of an SD card is the total of the capacity for copyright protection and management and the capacity which can be used on the unit, a PC etc.

## 5 Location of Controls and Components



**1 Shoulder strap fixture**

**2 Sub zoom lever**

- This lever functions in the same manner as the zoom lever.

**3 Sub recording start/stop button**

- This button functions in the same manner as the recording start/stop button.

**4 Accessory shoe**

**5 Microphone holder attachment part**

**6 Audio input terminals 1, 2 (XLR 3 pin) [AUDIO INPUT1,2]**

**7 Zoom lever [T/W] (In Recording Mode)**

Volume lever [+VOL-]/Thumbnail display switch [Q/ ] (In Playback Mode)

**8 Photoshot button [ ]**

**9 Status indicator**

**10 Power switch**

**11 Recording start/stop button**

**12 Grip belt**

**13 Headphone terminal [ ]**

**14 Camera remote jack [CAM REMOTE] [CONV.] (2.5 mm (0.1 ") super mini jack)**

It is possible to adjust the convergence point with the remote control connected (optional).

- Operations on the remote control (optional) will be given priority.

**[CAM REMOTE] (3.5 mm (0.14 ") mini jack)**

It is possible to adjust the focus or iris with the remote control connected (optional).

- It is not possible to use the remote control (optional) in the Intelligent Auto Mode.

**[ZOOM S/S] (2.5 mm (0.1 ") super mini jack)**

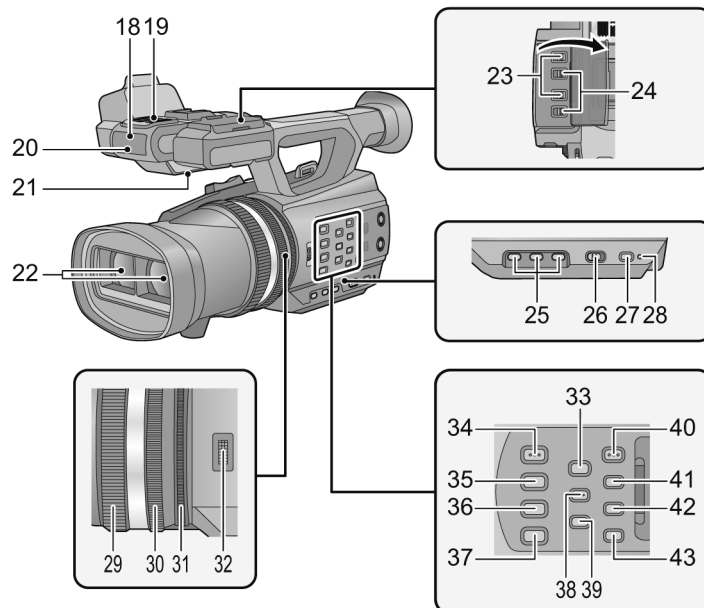
It is possible to operate zoom operation or recording start/stop with the remote control connected (optional).

- Do not connect any equipment except the remote control (optional) to the camera remote jack. Brightness of the image may change or it may not focus when an equipment other than the remote control (optional) is connected.

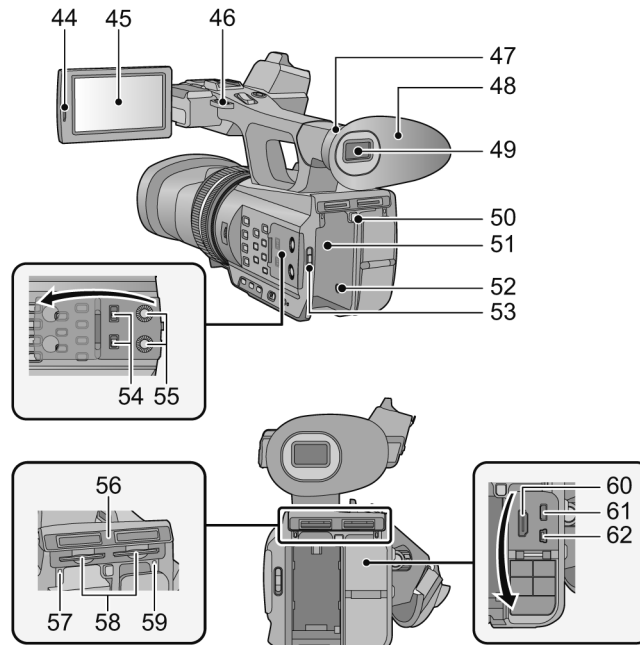
**15 Eyepiece corrector lever**

**16 Tripod receptacle**

**17 Inlet (cooling fan)**



- |    |  |    |   |
|----|--|----|---|
| 18 | Wireless remote control sensor             | 35 | Focus auto/Manual/ $\infty$ button [FOCUS A/M/ $\infty$ ] |
| 19 | Internal microphones                       | 36 | Optical image stabilizer button [O.I.S.]                  |
| 20 | Recording lamp                             | 37 | White balance button [W.B.]                               |
| 21 | Speaker                                    | 38 | Zebra button [ZEBRA]                                      |
| 22 | Lens                                       | 39 | Color Bar Screen button [BARS]                            |
| 23 | INPUT 1, 2 (LINE/MIC) switches             | 40 | Menu button [MENU]  |
| 24 | INPUT 1, 2 (+48V) switches                 | 41 | Display/Mode check button [DISP/MODE CHK]                 |
| 25 | User 1, 2, 3 buttons [USER1, USER2, USER3] | 42 | Counter button [COUNTER]                                  |
| 26 | Intelligent auto/Manual switch [iA/MANU]   | 43 | Counter reset button [RESET]                              |
| 27 | Quick start button [QUICK START]           |    |   |
| 28 | Quick start lamp                           |    |   |
| 29 | Focus ring                                 |    |   |
| 30 | Zoom ring                                  |    |   |
| 31 | Iris ring                                  |    |   |
| 32 | Convergence dial [CONV.]                   |    |   |
| 33 | 3D guide button [3D GUIDE]                 |    |   |
| 34 | Iris auto/Manual button [IRIS A/M]         |    |   |



- 44 LCD monitor extract part [PULL]
- 45 LCD monitor (Touch screen)

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

- 46 Shoulder strap fixture
- 47 Eye cup attachment part
- 48 Eye cup
- 49 Viewfinder

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

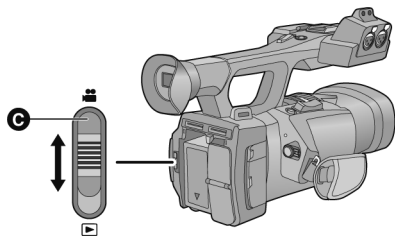
- 50 Battery release button [PUSH]
- 51 Battery holder

- 52 DC input terminal [DC IN]
  - Do not use any other AC adaptors except the supplied one.
- 53 Mode switch
- 54 CH1, CH2 switches [CH1, CH2]
- 55 Audio control knobs [CH1, CH2]
- 56 SD Card slot cover
- 57 Access lamp (card 1)
- 58 Card slot 1 (left)/  
Card slot 2 (right)
- 59 Access lamp (card 2)
- 60 HDMI connector [HDMI]
- 61 AV multi connector [AV MULTI]
  - Use the AV multi cable (only the supplied cable).
- 62 USB terminal [USB 2.0]

## Selecting a mode

Change the mode to recording or playback.

Operate the mode switch to change the mode to or .



**C** Mode switch

	Recording Mode
	Playback Mode

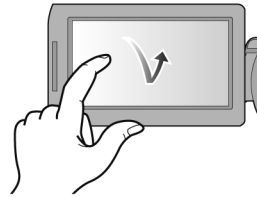
## How to use the touch screen

You can operate by directly touching the LCD monitor (touch screen) with your finger. It is easier to use the stylus pen (supplied) for detailed operation or if it is hard to operate with your fingers.

### ■ Touch

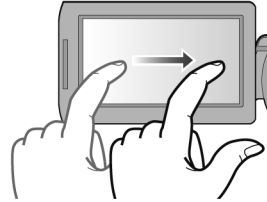
Touch and release the touch screen to select icon or picture.

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



### ■ Slide while touching

Move your finger while pressing on the touch screen.



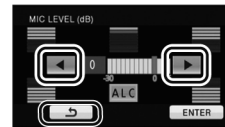
### ■ About the operation icons

▲/▼/◀/▶:

These icons are used to switch the menu and thumbnail display page, for item selection and setting etc.

↶:

Touch to return to the previous screen such as when setting menus.




- Do not touch the LCD monitor with hard pointed tips, such as ball point pens.
- Perform the touch screen calibration when the touch is not recognized or wrong location is recognized.

## [CALIBRATION]

Perform the touch screen calibration if a different object to the one touched is selected.

### 1 Select the menu.

: [OTHER FUNCTION] → [CALIBRATION] → [YES]

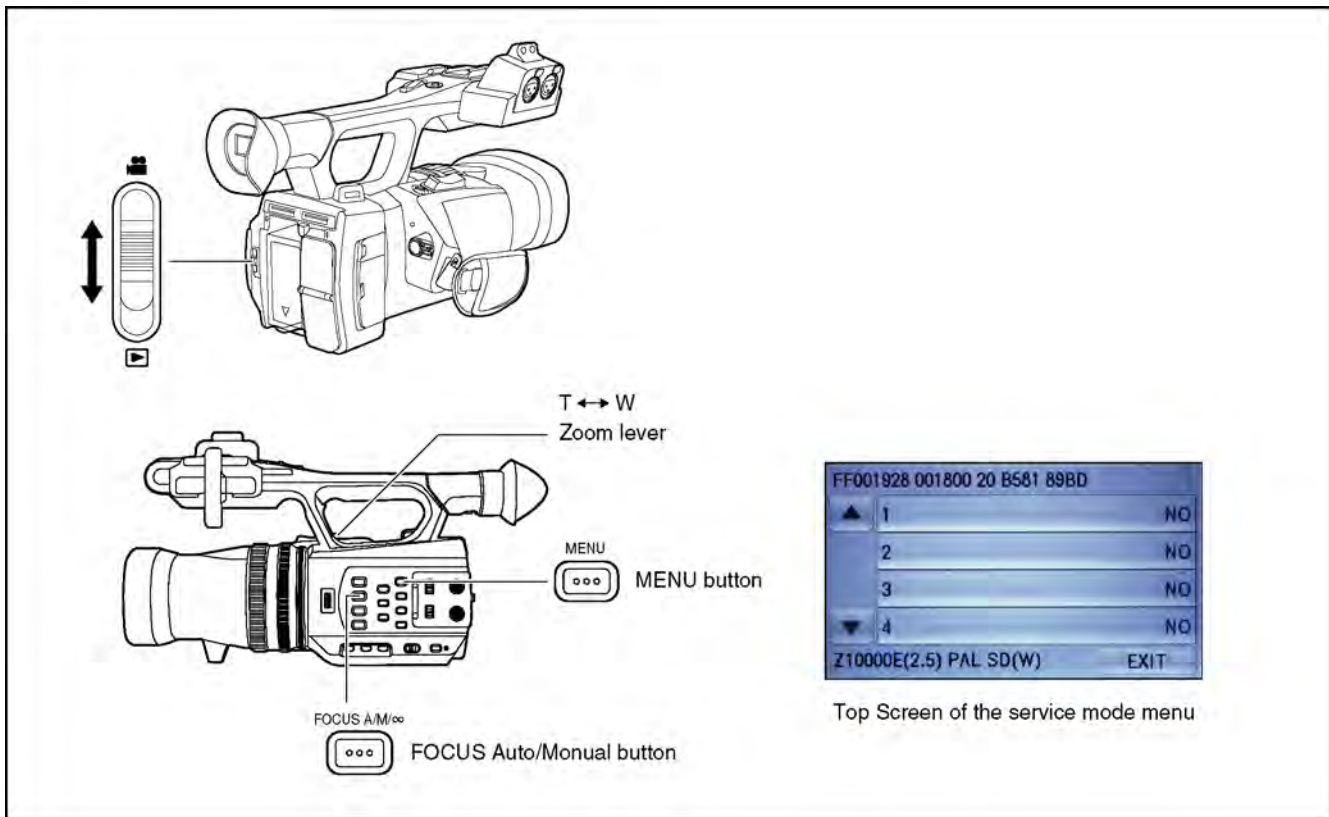
- Touch [ENTER].
- 2 Touch the [+]** that appears on the screen with the supplied stylus pen.
- Touch [+] in sequence (up left → down left → down right → up right → center).
- 3 Touch [ENTER].**

## 6 Service Mode

### 1. Indication method of the service menu

Set the mode switch "Recording" mode.

- Keep pressing the "MENU" button, "Zoom lever" to W side and "FOCUS A/M/∞" 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
4	Lock search history indication	Display the camera system error cord for three histories saved in EEPROM
5	Power ON self check result display	Power ON self check (function to diagnose correct function of the device and interface between devices) result display
10	Erasing the lock histories	Erasing the error histories (working time is not erased)
12	Camera data indications while the video playback	Display the camera informations (Shutter speed, Iris value, White balance and focal length) while playing recorded video

#### NOTE:

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

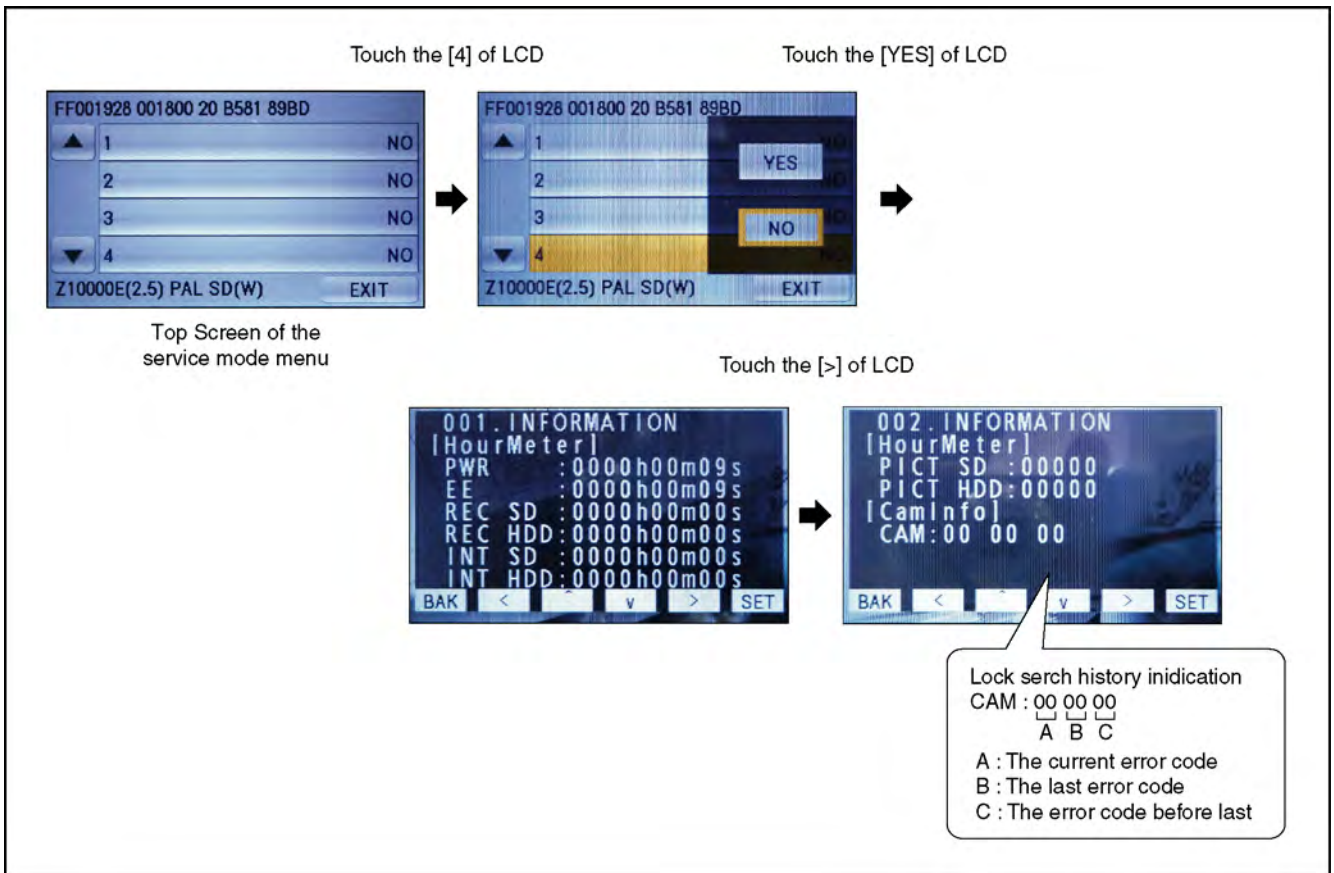
### 3. End method of the top screen of the service mode menu

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

## 6.1. Lock Search History Indication

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

### Operation specifications



### Indication contents

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

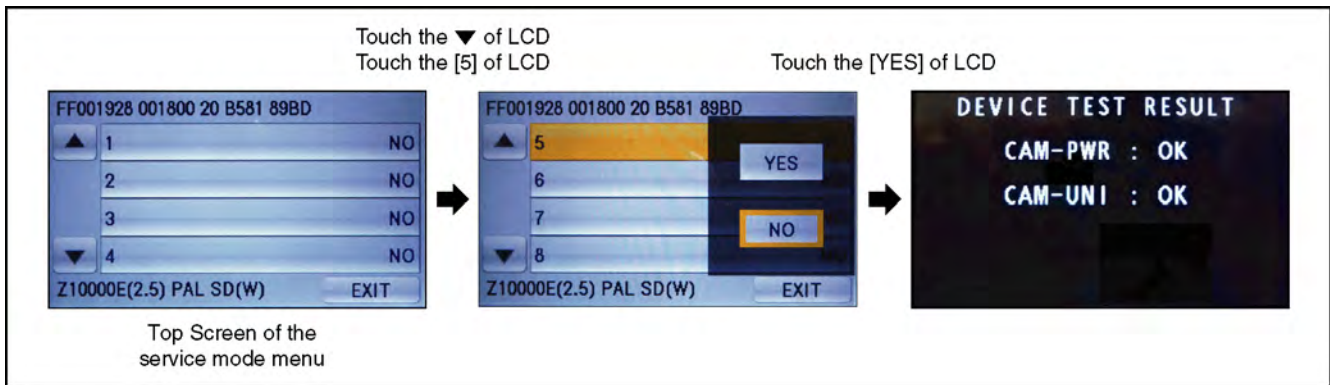
Error	code Function
51	Focus control ( L ) is abnormal
52	Zoom control ( L ) is abnormal
53	OIS lens control ( L ) is abnormal
D1	Focus control ( R ) is abnormal
D2	Zoom control ( R ) is abnormal
D3	OIS lens control ( R ) is abnormal
33	IC3401 internal communication is abnormal.

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

## 6.2. Power ON Self Check Result Display

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

### Operation specifications



### Indication contents

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

Display the following communication test result.

-CAM-PWR : Communication test between IC3401 to IC2304

-CAM-UNI : IC3401 internal communication test.

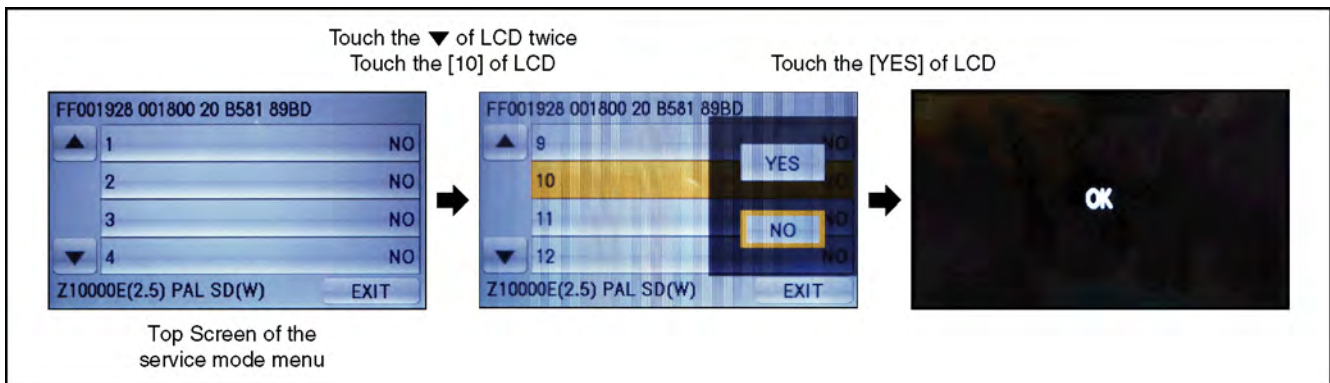
Display other than "OK" are abnormalities of each lines.

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

## 6.3. Erasing the lock histories

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

### Operation specifications



### Indication contents

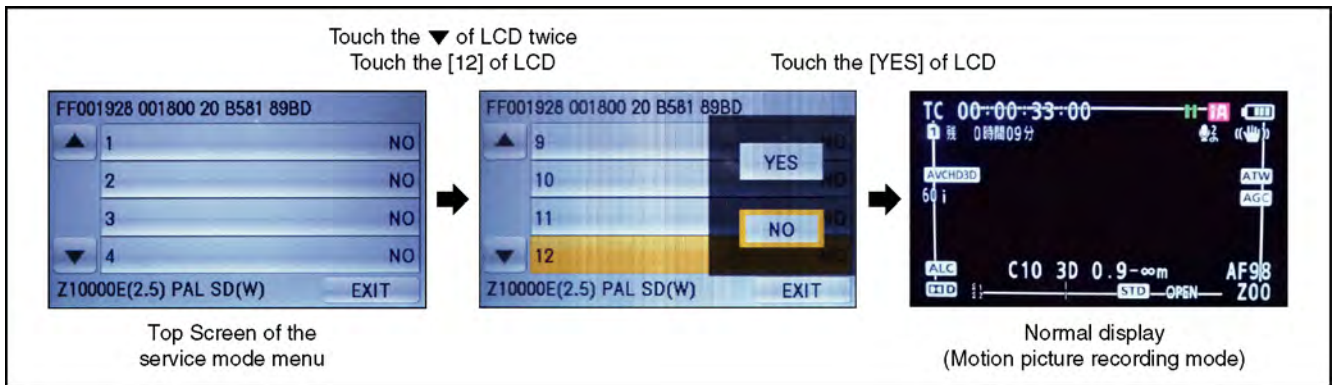
- Erasing the error histories stored in EEPROM. (working time is not erased)

Press the power button and turn off.

## 6.4. Camera data indications while the video playback

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

### Operation specifications



### Indication contents

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

Set the mode switch "Playback" mode.



Press the power button and turn off.

# 7 Troubleshooting Guide

Failure diagnosis of a lens unit

When 3D Recording has abnormalities, please check the following and perform failure diagnosis of a lens unit.

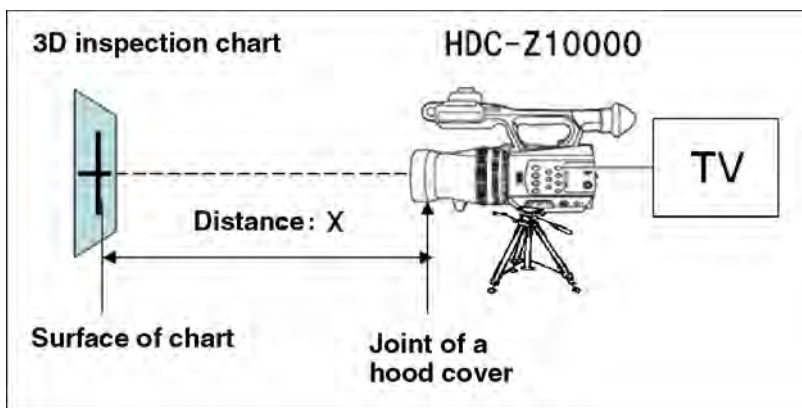
## 7.1. Preparation

1. Set up HDC-Z10000 as follows.
  - 3D Recording Mode
  - 3D display is set to MIX display
  - Convergence reset
  - Display a guideline.



2. Set up connection as follows.
  - Stick 3D inspection chart of attachment in adjustment software on the perpendicular surface of a wall etc.
  - Install HDC-Z10000 in the front of 3D inspection chart.
  - It fixes so that the horizontal line of 3D inspection chart and guideline may be displayed horizontally on LCD screen.

**Figure of connection**

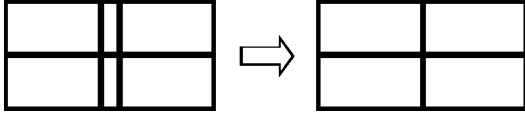


\* 3D inspection chart is attached to adjustment software.

## 7.2. Check

### 7.2.1. The check of a Convergence Gap

1. Check by 2DTV (HDMI Connection).
2. Record a chart in a zoom W side and a macro mode (MACR set up with the USER button).
3. Check each distance X when the distance between a chart and a main unit is changed and the vertical bar of a right-and-left picture is coincided on TV screen (or LCD screen).

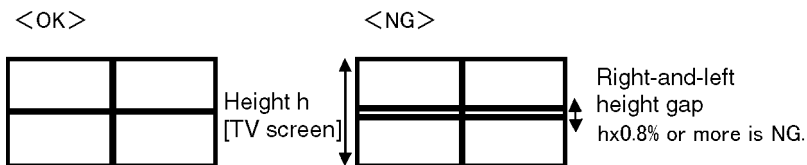


4. When distance X is different from the following spec. **→ The lens unit exchange.**
  - ① zoom W side :  $X=1.4\text{m}\pm 30\text{cm}$
  - ② macro mode (zoom W side) :  $X=45\text{cm}\pm 3\text{cm}$

### 7.2.2. The check of a Right-and-Left Height Gap

1. Check by 2DTV (HDMI Connection).
2. Measure in each distance in a zoom T side ( $\times 10$ ) and a macro mode (zoom W side).
  - ① zoom T side :  $X=1.4\text{m}\pm 30\text{cm}$
  - ② macro mode (zoom W side) :  $X=45\text{cm}\pm 3\text{cm}$
3. Check the amount of height gaps of the horizontal line of a right-and-left picture on TV screen.

When TV screen height has 0.8% or more of the amount of height gaps **→ The lens unit exchange.**

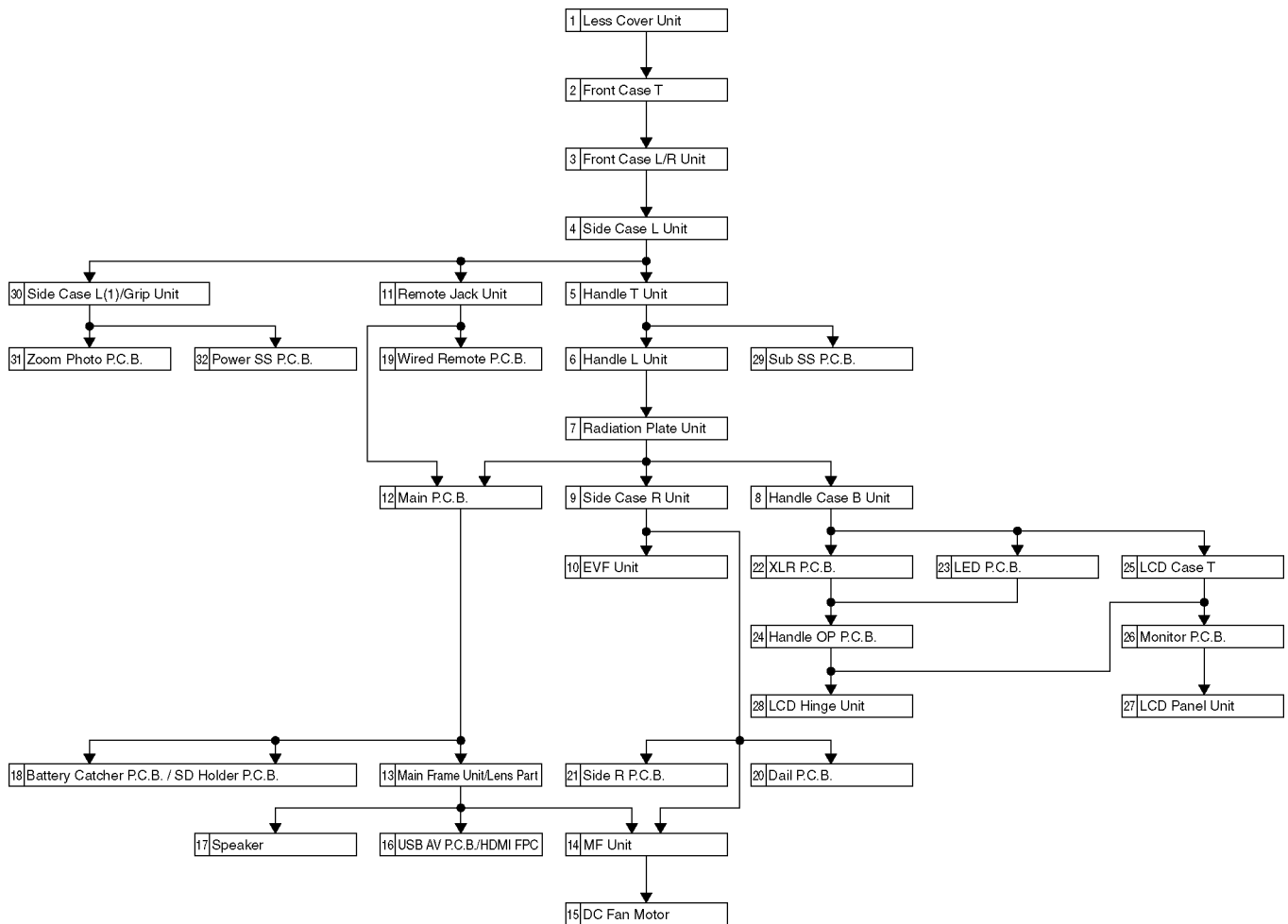


# 8 Disassembly and Assembly Instructions

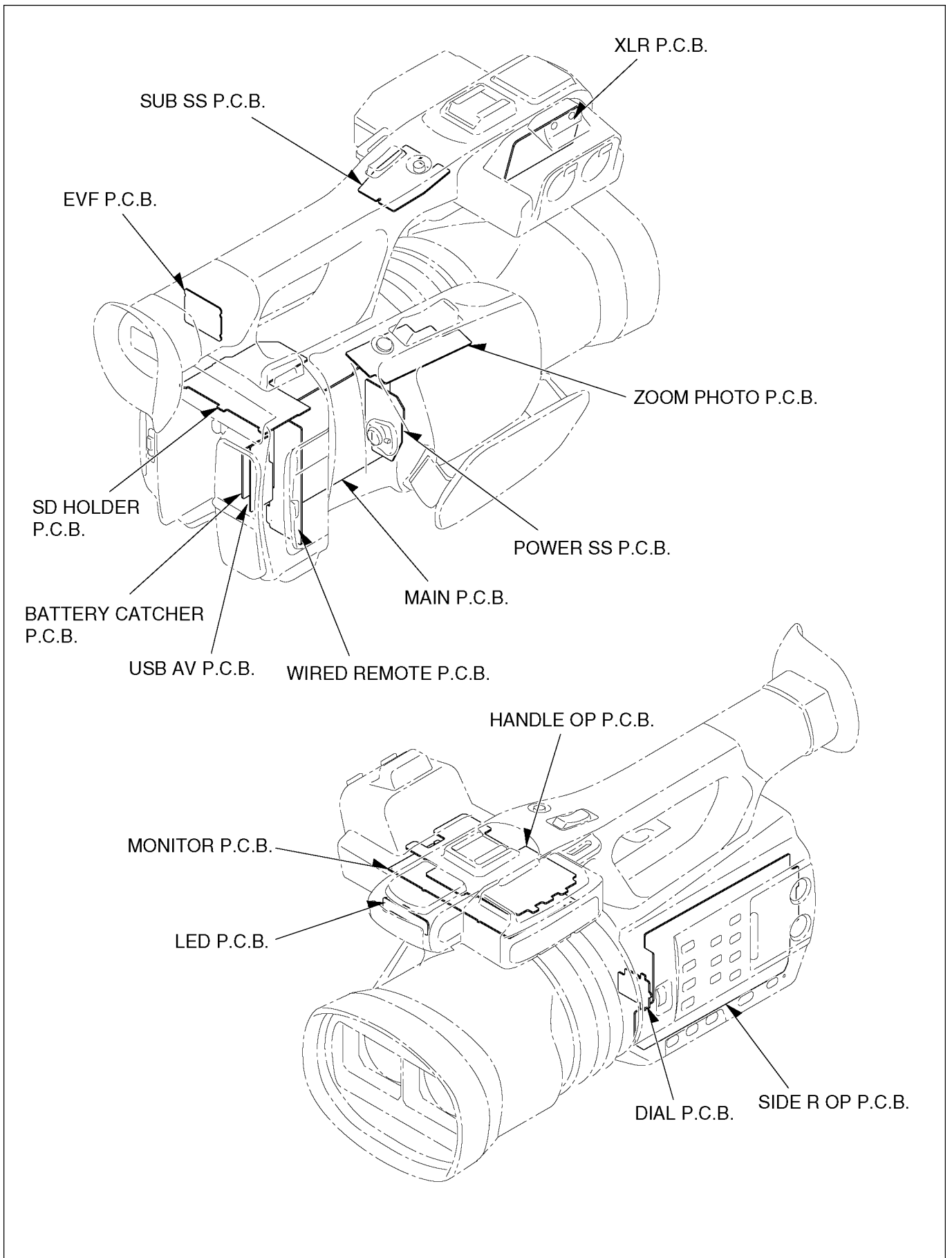
## 8.1. Disassembly Flow Chart for the Unit

This is a disassembling chart.

When assembling, perform this chart conversely.



## 8.2. P.C.B. Location



### 8.3. Disassembly Procedure for the Unit

No.	Item	Fig.	Removal
1	Lens Cover Unit	(Fig. D1)	4 Screws (A)
			2 Screws (B)
			Lens Cover Unit
			Lens Mask
2	Front Case T	(Fig. D2)	2 Locking Tabs
			Front Case T
3	Front Case L/R Unit	(Fig. D3)	3 Screws (C)
		(Fig. D4)	1 Screw (D)
			3 Locking Tabs
			Front Case L Unit Front Case R Unit
4	Side Case L Unit	(Fig. D5)	1 Screw (E)
			7 Screws (F)
			1 Screw (G)
			FP6020 (Flex)
			FP6021 (Flex)
			Side Case L Unit
			Side Case L Unit
5	Handle T Unit	(Fig. D6)	4 Screws (H)
			4 Screws (I)
			2 Screws (J)
			FP6716 (Flex)
			Handle T Unit
6	Handle Case L Unit	(Fig. D7)	2 Screws (K)
			1 Screw (L)
			1 Screw (M)
			2 Locking Tabs
			Handle Case L Unit
7	Radiation Plate Unit	(Fig. D8)	2 Screws (N)
			1 Locking Tab
			FP6009 (Flex)
			Radiation Plate Unit
8	Handle Case B Unit	(Fig. D9)	2 Screws (O)
			FP6008 (Flex)
			FP6012 (Flex)
			P6710 (Connector)
			PS6003 (Flex)
			Handle Case B Unit
9	Side Case R Unit	(Fig. D10)	3 Screws (P)
			2 Screws (Q)
			1 Screw (R)
			3 Locking Tabs
			Side Case R Unit
10	EVF Unit	(Fig. D11)	1 Screw (S)
			4 Locking Tabs
			PS6004 (Connector)
			EVF Wire Guide EVF Unit
11	Remote Jack Unit	(Fig. D12)	2 Screws (T)
			FP6022 (Flex)
			P6502 (Connector)
			Wire Remote Jack Unit
12	Main P.C.B.	(Fig. D13)	4 Screws (U)
			SD FPC
			FP6002 (Flex)
			FP6003 (Flex)
			FP6005 (Flex)
			FP6006 (Flex)
			FP6011 (Flex)
			P6001 (Connector)
			P6024 (Connector)
			PS6002 (Connector)
			PS6011 (Connector)
			Main P.C.B.

No.	Item	Fig.	Removal
13	Main Frame Unit / Lens Part	(Fig. D14)	4 Screws (V)
			Main Frame Unit Lens Part
14	MF Unit	(Fig. D15)	4 Screws (W)
			4 Ribs
15	DC Fan Motor	(Fig. D16)	1 Screw (X)
		(Fig. D17)	3 Locking Tabs Fan Cover
16	USB AV P.C.B. / HDMI FPC		(Fig. D18)
		(Fig. D19)	Rear Jack Unit
			4 Screws (Z)
			FP6471 (Flex) USB AV FPC Rear Jack Frame USB AV P.C.B. HDMI FPC
17	Speaker	(Fig. D20)	2 Screws (a)
			Speaker Angle
			Speaker
18	Battery Catcher P.C.B. / SD Holder P.C.B.	(Fig. D21)	7 Screws (b)
		(Fig. D22)	1 Locking Tab
			1 Rib
			2 Locking Tabs
			FP6301 (Flex) P6301 (Connector) Battery Catcher FFC Battery Catcher P.C.B.
(Fig. D23)	2 Screws (c)		
19	Wired Remote P.C.B.	(Fig. D24)	SD Holder P.C.B.
			2 Screws (d)
			1 Nut
			FP6501 (Flex)
			Wired Remote FFC Remote Jack Frame Wired Remote P.C.B.
20	Dial P.C.B.	(Fig. D25)	2 Screws (e)
			FP6951 (Flex)
			Dial P.C.B.
21	Side R OP P.C.B. Unit	(Fig. D26)	11 Screws (f)
			FP6951 (Flex)
			Side R OP FFC Side R OP P.C.B.
			Side Case R (1) Unit
22	XLR P.C.B.	(Fig. D27)	4 Screws (g)
			1 Screw (h)
			FP4401 (Flex)
			FP6712 (Flex)
			XLR FFC
			XLR P.C.B.
23	LED P.C.B.	(Fig. D28)	FP6401 (Flex)
			FP6710 (Flex)
			FP6711 (Flex)
			MIC Unit
		(Fig. D29)	LED P.C.B. Tally Panel Light Sensor Window

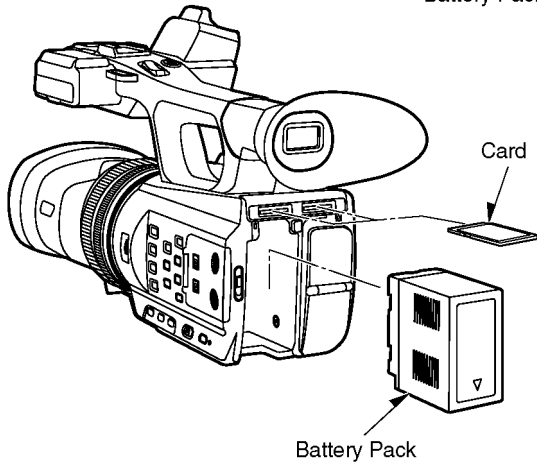
No.	Item	Fig.	Removal			
24	Handle OP P.C.B.	(Fig. D30)	2 Screws (i)			
			1 Screw (j)			
			FP6714 (Flex)			
		(Fig. D31)	FP6717 (Flex)			
			FP6718 (Flex)			
			PS6719 (Connector)			
			SW Knob Sheet			
			XLR SW Knob A			
			XLR SW Knob B			
			Handle OP A FFC			
			Handle OP B FFC			
			Handle Slim Wire Unit			
			Handle OP P.C.B.			
			25	LCD Case T	(Fig. D32)	1 Screw (k)
(Fig. D33)	2 Screws (l)					
	1 Screw (m)					
(Fig. D34)	6 Locking Tabs					
	FP901 (Flex)					
	FP902 (Flex)					
26	Monitor P.C.B.	(Fig. D35)	3 Locking Tabs			
			FP903 (Flex)			
			FP904 (Flex)			
			FP905 (Flex)			
			LCD Frame			
		(Fig. D36)	Monitor P.C.B.			
			Reflection Sheet			
			Light Guide Plate			
			27	LCD Panel Unit	(Fig. D37)	Diffusion Sheet
						Prism Sheet A
						Prism Sheet B
(Fig. D38)	LGP Holder					
	LCD Panel Unit					
28	LCD Hinge Unit	(Fig. D39)	2 Screws (n)			
			LCD Hinge Unit			
		(Fig. D40)	2 Screws (o)			
			Hinge Cover B			
		(Fig. D41)	Ball Spring			
			Ball Spacer			
			Stainless Ball			
			Magnet			
		(Fig. D42)	Hinge Cover T			
			Monitor FPC			
		(Fig. D43)	FPC Hold Piece			
Shaft Unit						
(Fig. D44)	Monitor FPC					
	29	Sub SS Zoom P.C.B.	(Fig. D45)	4 Screws (p)		
1 Screw (q)						
Shoe Spring						
Shoe Hold Plate						
(Fig. D46)			4 Screws (r)			
			REC Button			
			Handle T (1) Unit			
(Fig. D47)			1 Screw (s)			
			Shoulder Belt Angle F			
(Fig. D48)			2 Screws (t)			
			FP6681 (Flex)			
			Sub SS Zoom FFC			
			Handle Mount Plate			
			Sub SS P.C.B.			
30	Side Case L (1) / Grip Unit	(Fig. D49)	Grip Belt			
		(Fig. D50)	9 Screws (u)			
			Grip Unit			
			Side Case L (1) Unit			

No.	Item	Fig.	Removal
31	Zoom Photo P.C.B.	(Fig. D51)	2 Screws (v)
			Zoom Unit
		(Fig. D52)	FP6691 (Flex)
			Zoom Photo FFC
		(Fig. D53)	2 Screws (w)
			Photo Shot Button
			Photo Earth Plate
			Zoom Base
		(Fig. D54)	2 Screws (x)
			Zoom Lever Cushion (B)
			Zoom Photo P.C.B.
(Fig. D55)	Zoom Lever		
	Zoom Lever Cushion (A)		
	Zoom SW (1) Unit		
32	Power SS P.C.B.	(Fig. D56)	3 Screws (y)
			Belt Angle R
		(Fig. D57)	Power SS Unit
			Grip Case AL Hoil
			Grip Case
		(Fig. D58)	1 Screw (z)
			FP6601 (Flex)
			Zoom Photo FFC
			PW Panel Light
			Power SS (1) Unit
Power SS P.C.B.			

**NOTE:**

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

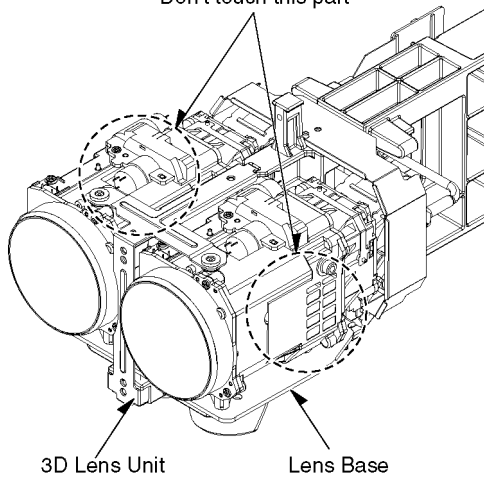
- Card
- Battery Pack



**NOTE:**

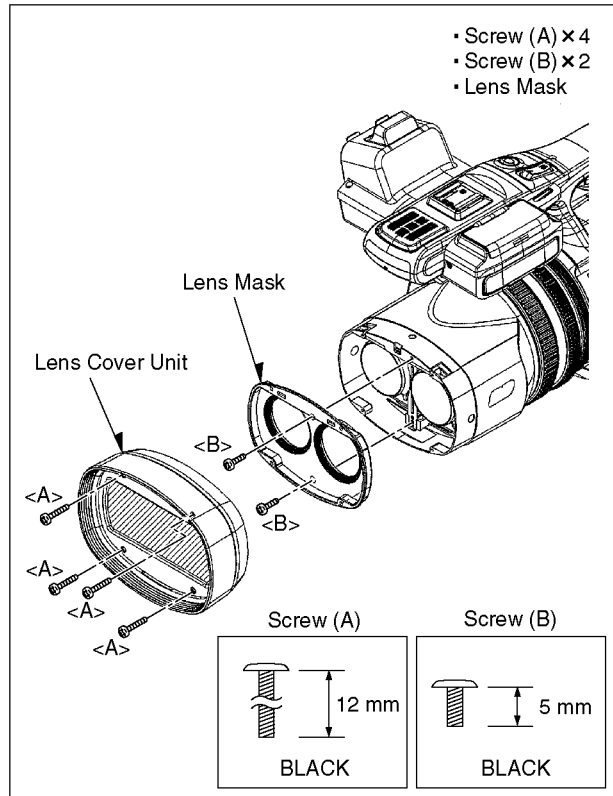
Please handle the lens base, when you handle the 3D lens unit because adjustment may go wrong.

Don't touch this part



### 8.3.1. Removal of the Lens Cover Unit

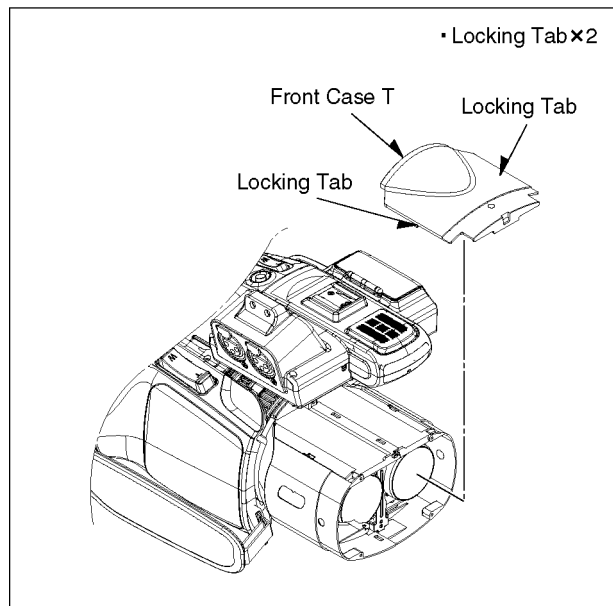
- Screw (A) × 4
- Screw (B) × 2
- Lens Mask



(Fig. D1)

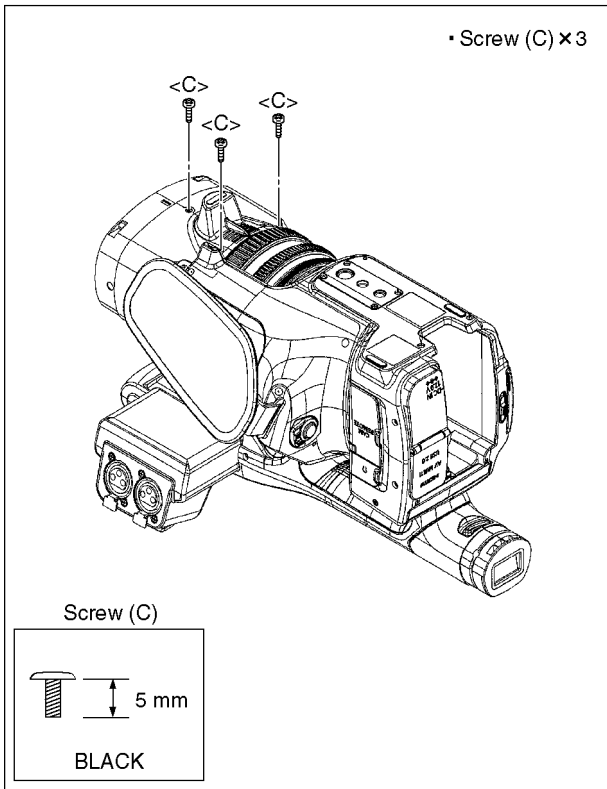
### 8.3.2. Removal of the Front Case T

- Locking Tab × 2

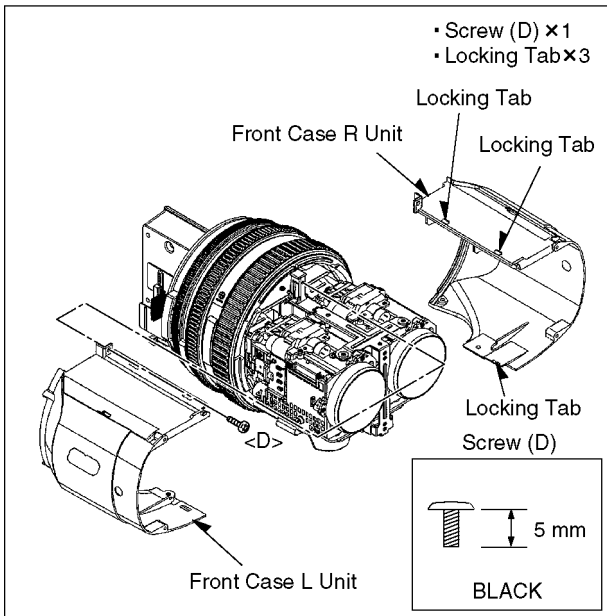


(Fig. D2)

### 8.3.3. Removal of the Front Case L/R Unit

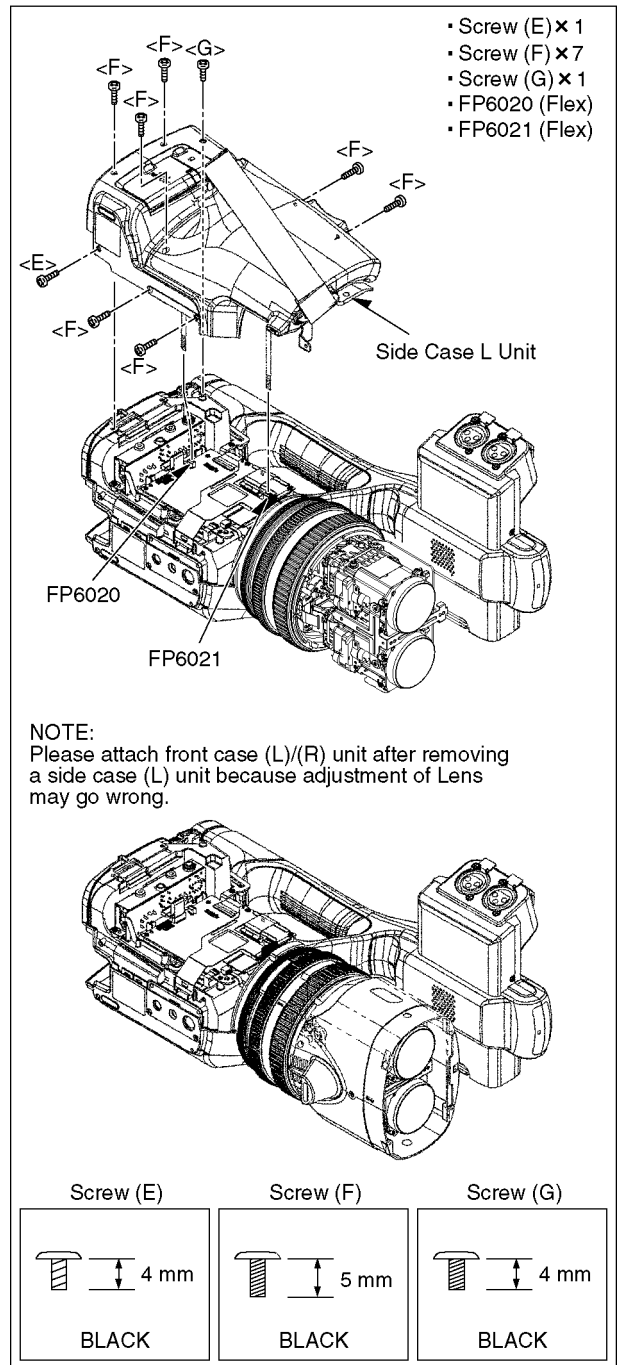


(Fig. D3)



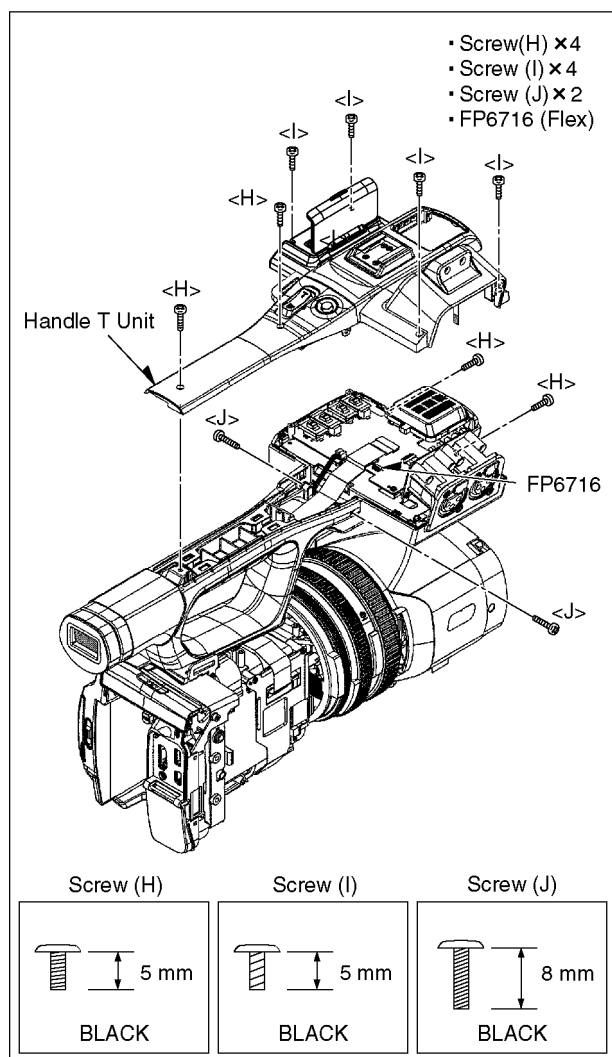
(Fig. D4)

### 8.3.4. Removal of the Side Case L Unit



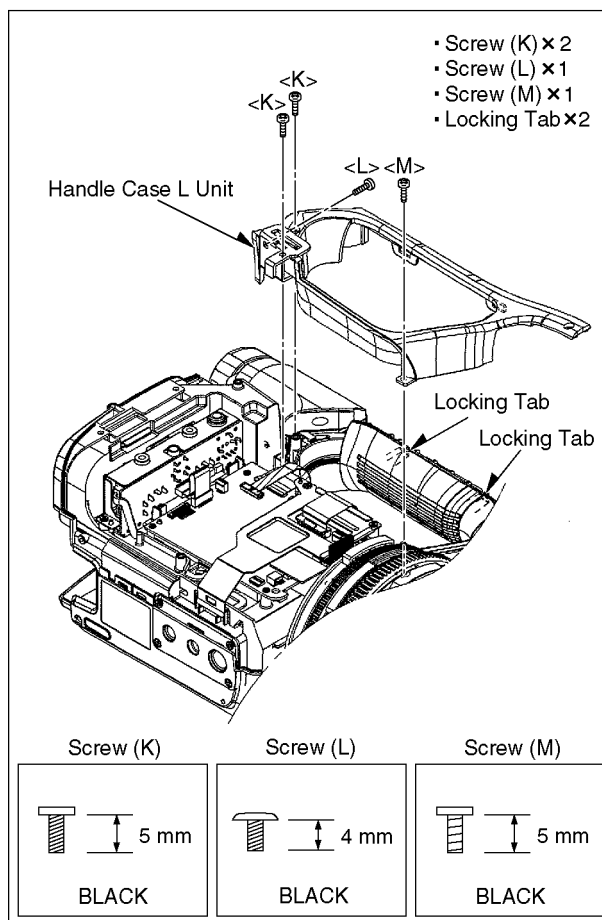
(Fig. D5)

### 8.3.5. Removal of the Handle T Unit



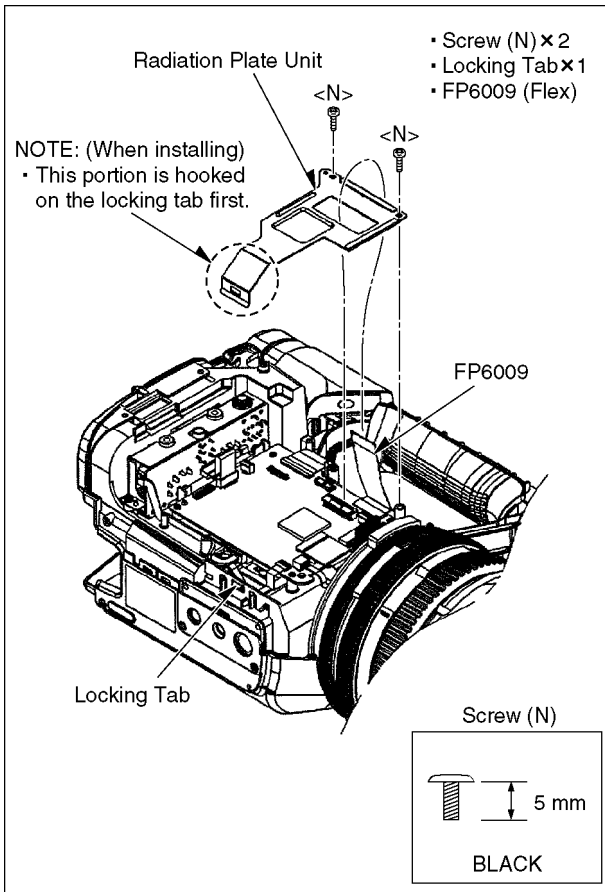
(Fig. D6)

### 8.3.6. Removal of the Handle Case L Unit



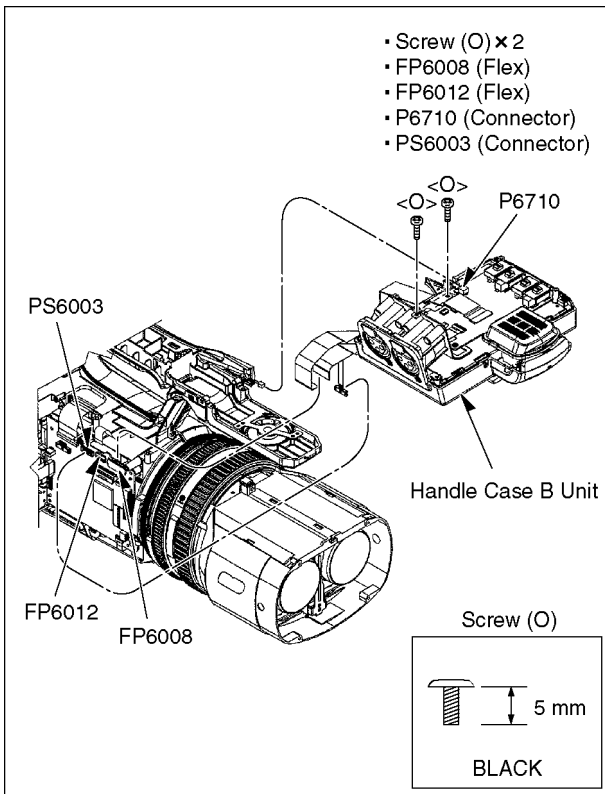
(Fig. D7)

### 8.3.7. Removal of the Radiation Plate Unit



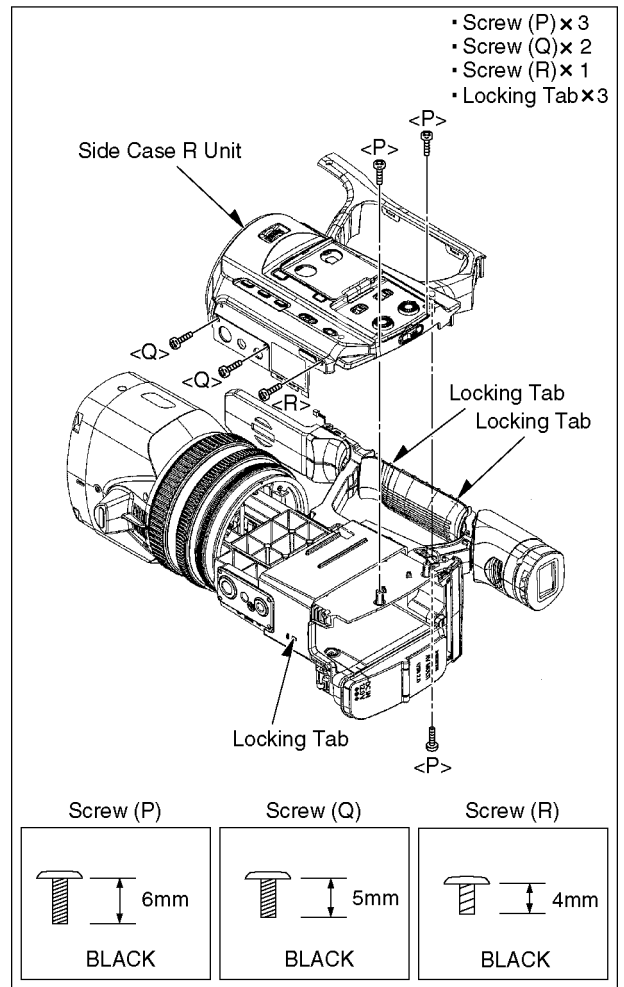
(Fig. D8)

### 8.3.8. Removal of the Handle Case B Unit



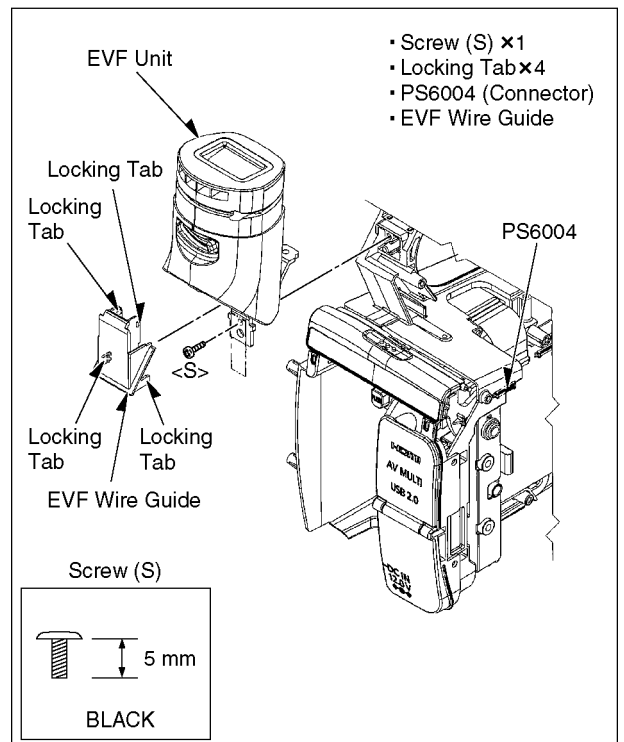
(Fig. D9)

### 8.3.9. Removal of the Side Case R Unit



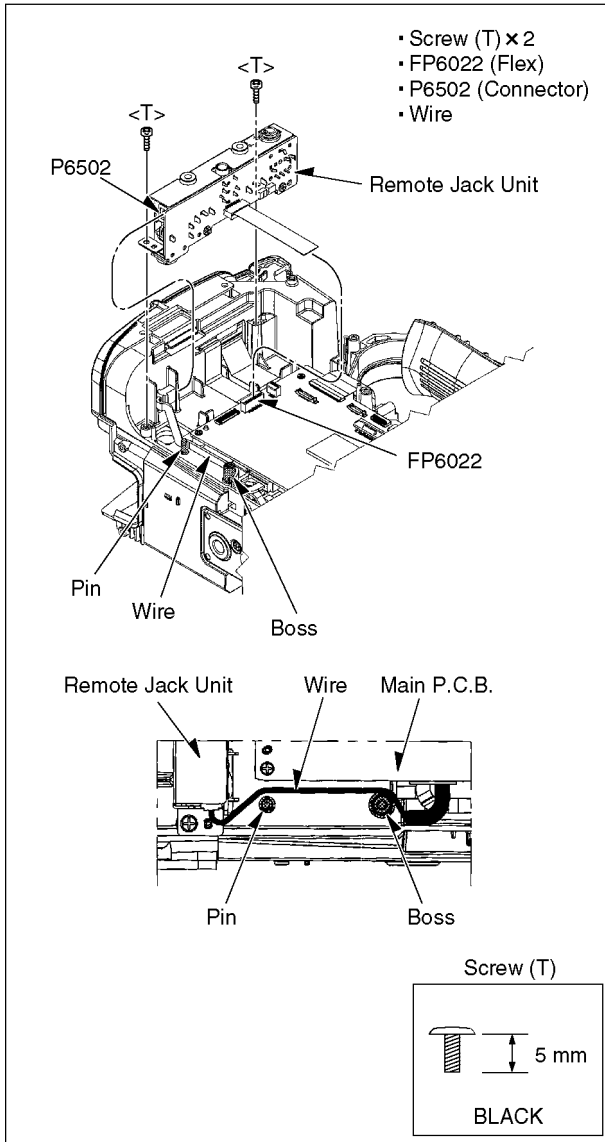
(Fig. D10)

### 8.3.10. Removal of the EVF Unit



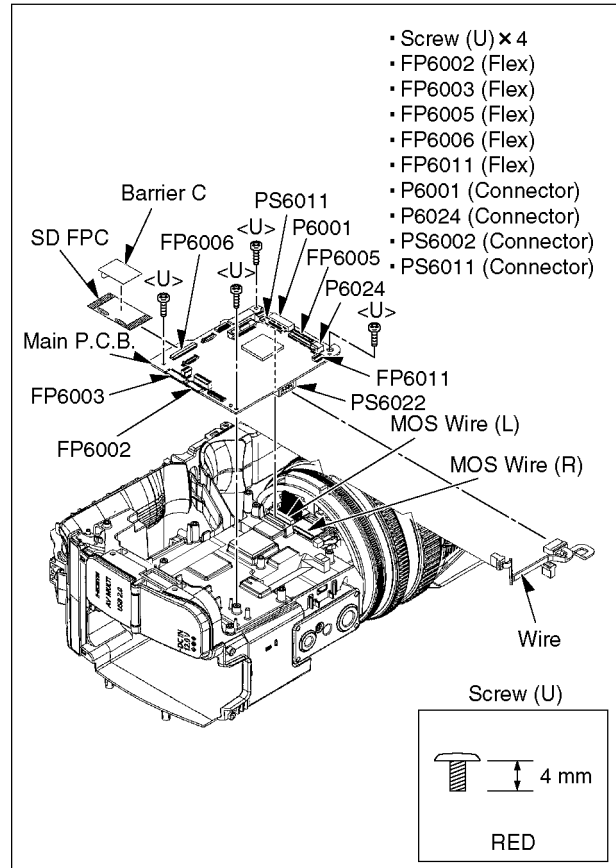
(Fig. D11)

### 8.3.11. Removal of the Remote Jack Unit



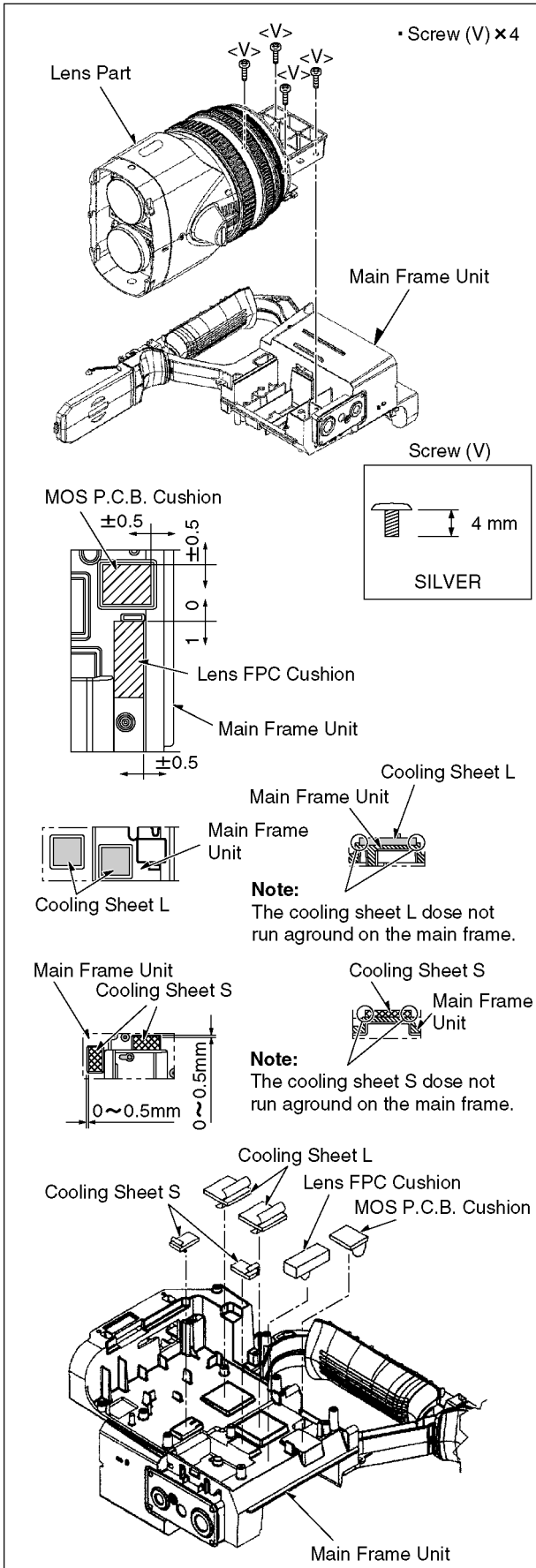
(Fig. D12)

### 8.3.12. Removal of the Main P.C.B.



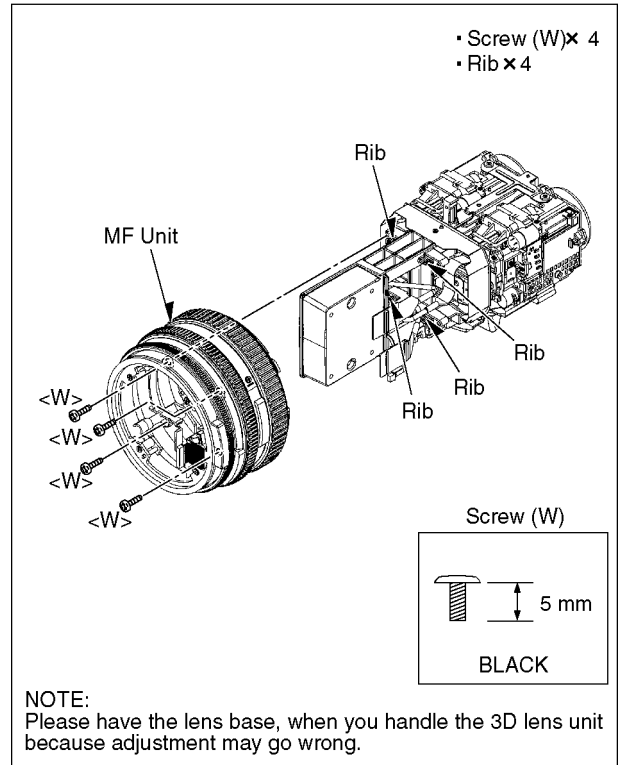
(Fig. D13)

### 8.3.13. Removal of the Main Frame Unit/ Lens Part



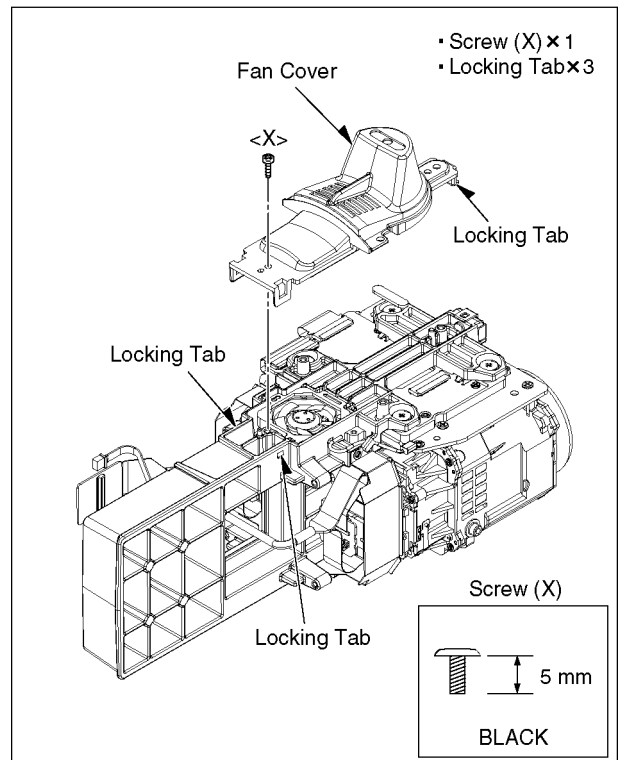
(Fig. D14)

### 8.3.14. Removal of the MF Unit

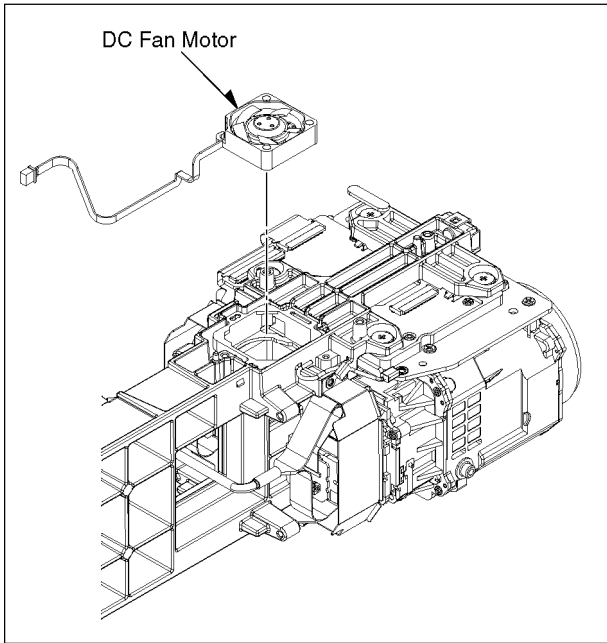


(Fig. D15)

### 8.3.15. Removal of the DC Fan Motor

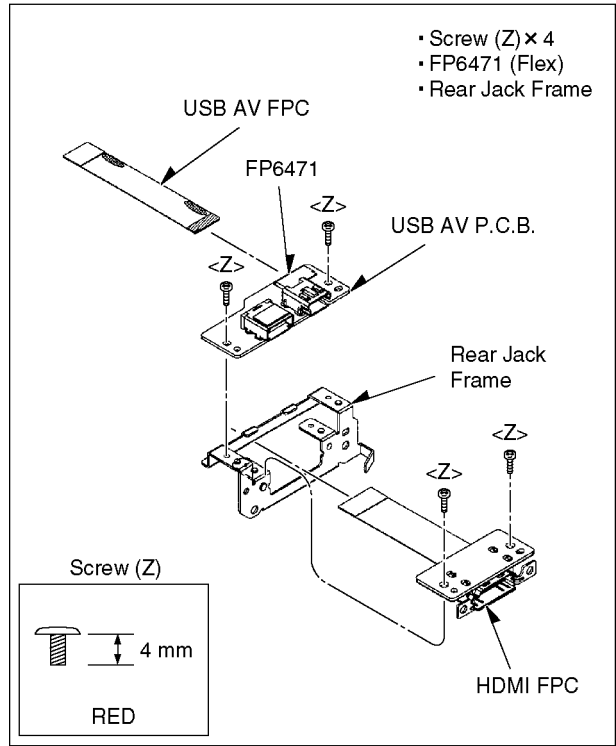


(Fig. D16)

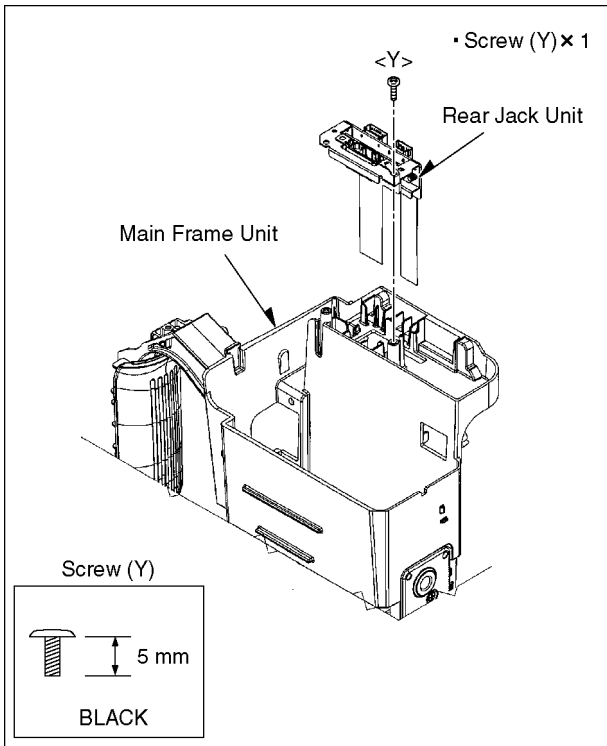


(Fig. D17)

### 8.3.16. Removal of the USB AV P.C.B. / HDMI FPC

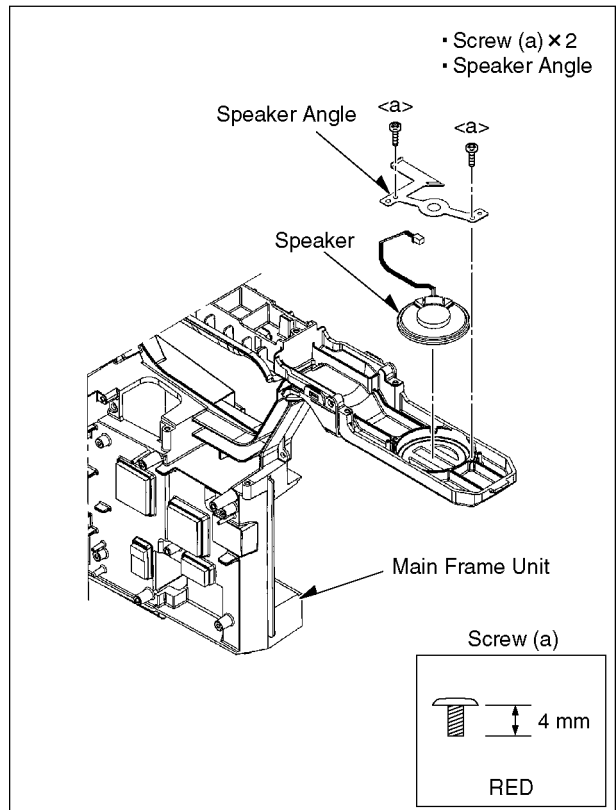


(Fig. D19)



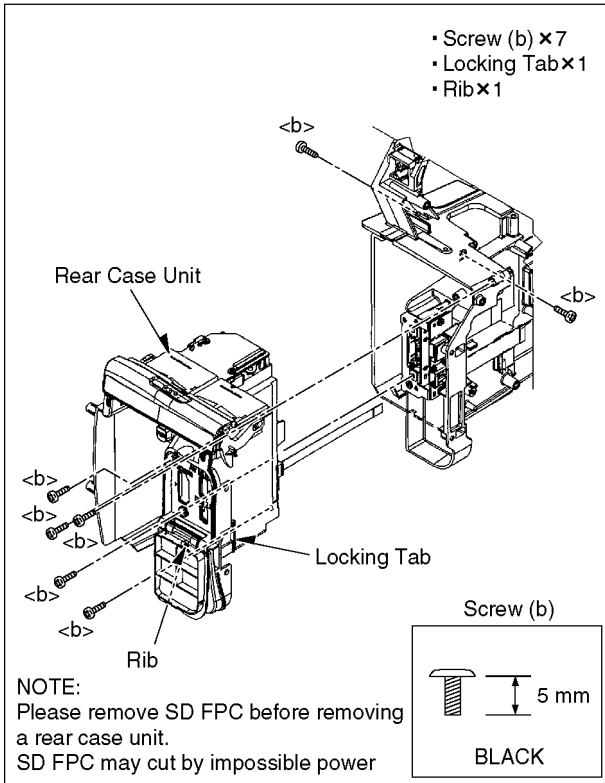
(Fig. D18)

### 8.3.17. Removal of the Speaker

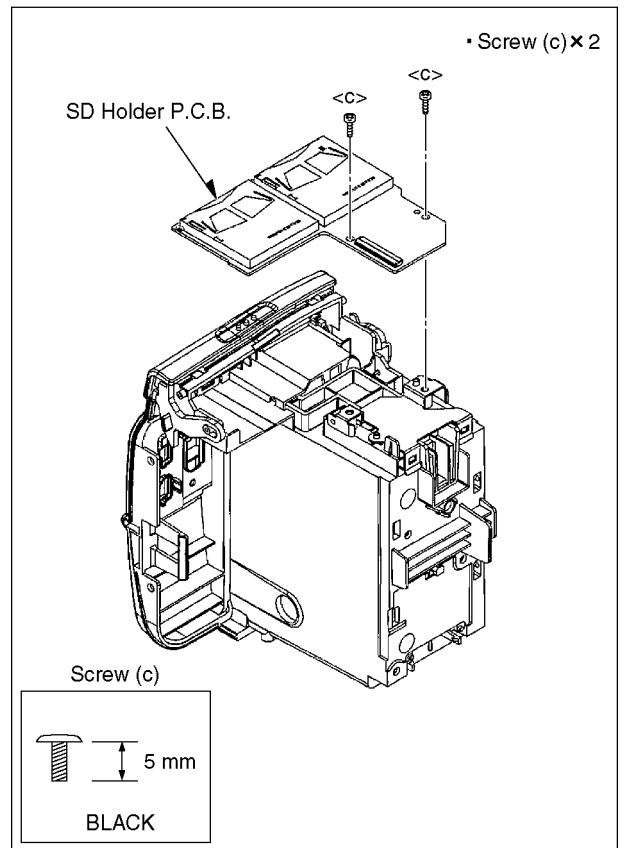


(Fig. D20)

### 8.3.18. Removal of the Battery Catcher P.C.B. / SD Holder P.C.B.

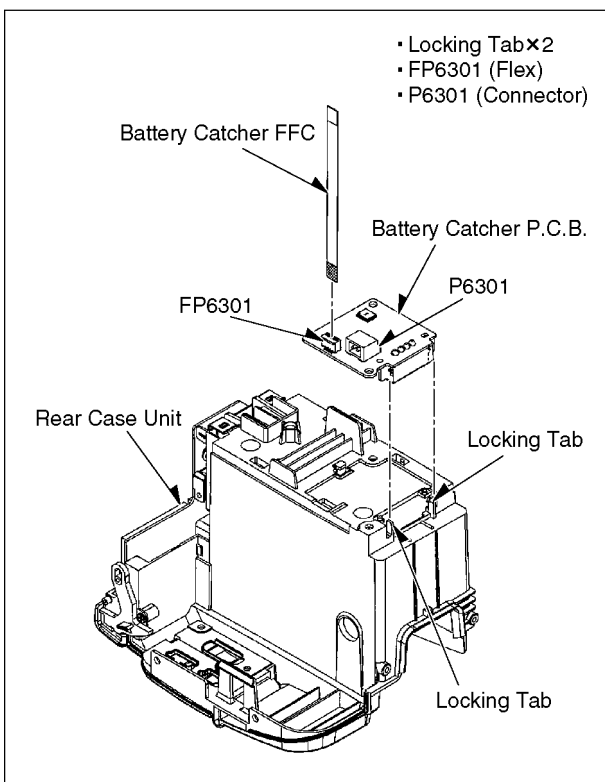


(Fig. D21)

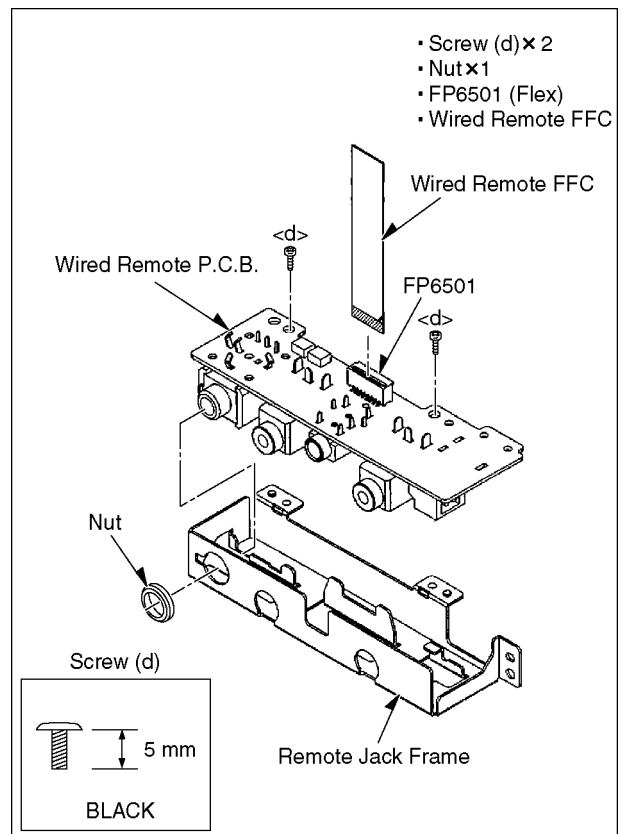


(Fig. D23)

### 8.3.19. Removal of the Wired Remote P.C.B.

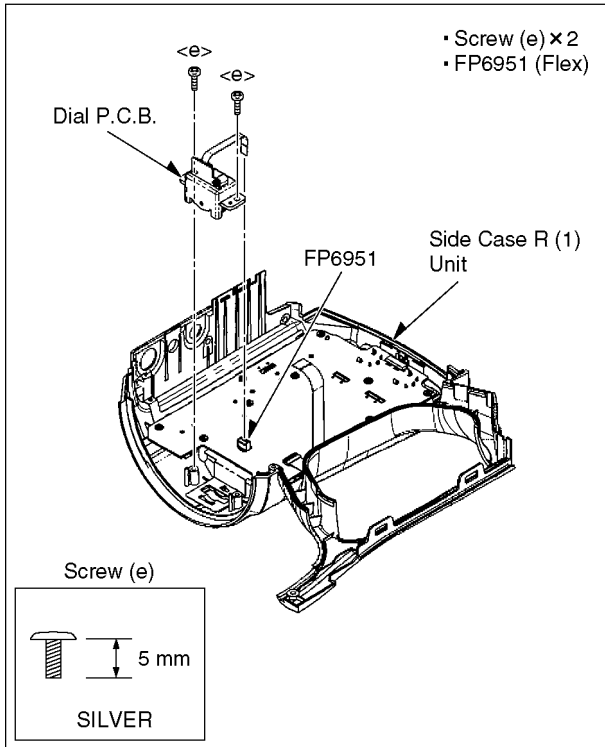


(Fig. D22)



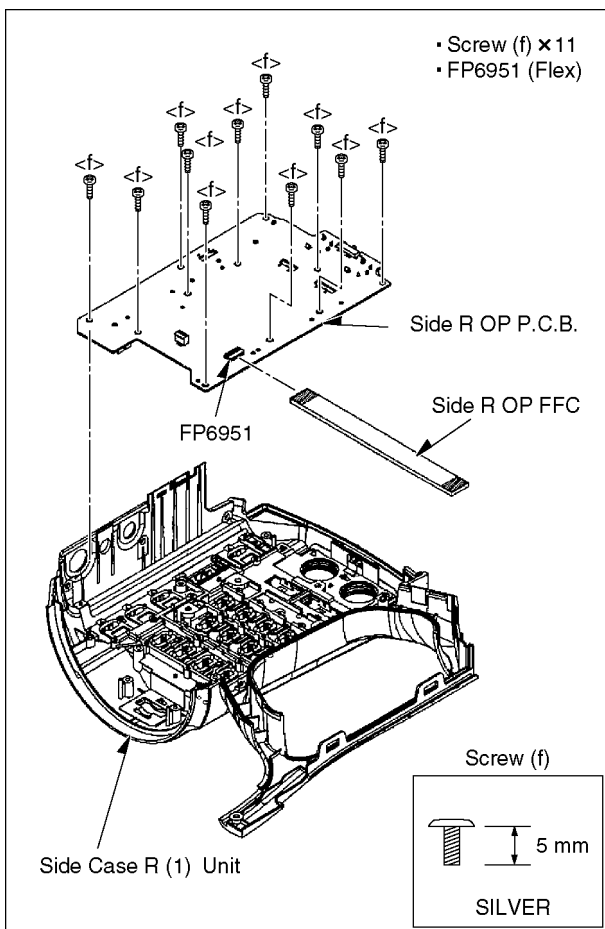
(Fig. D24)

### 8.3.20. Removal of the Dial P.C.B.



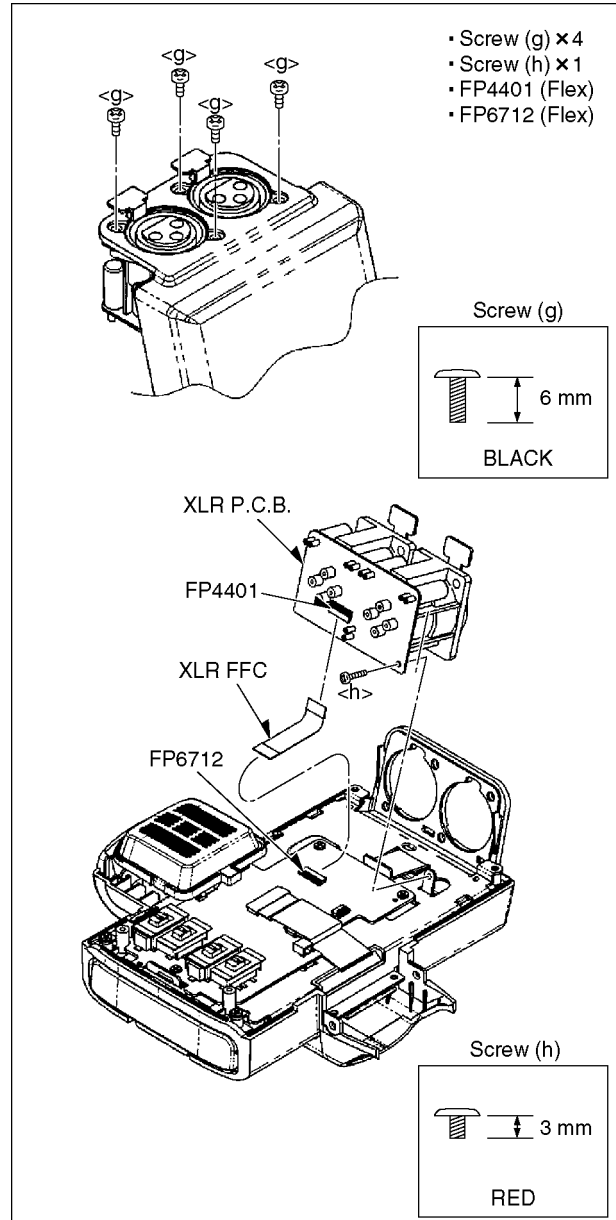
(Fig. D25)

### 8.3.21. Removal of the Side R OP P.C.B. Unit



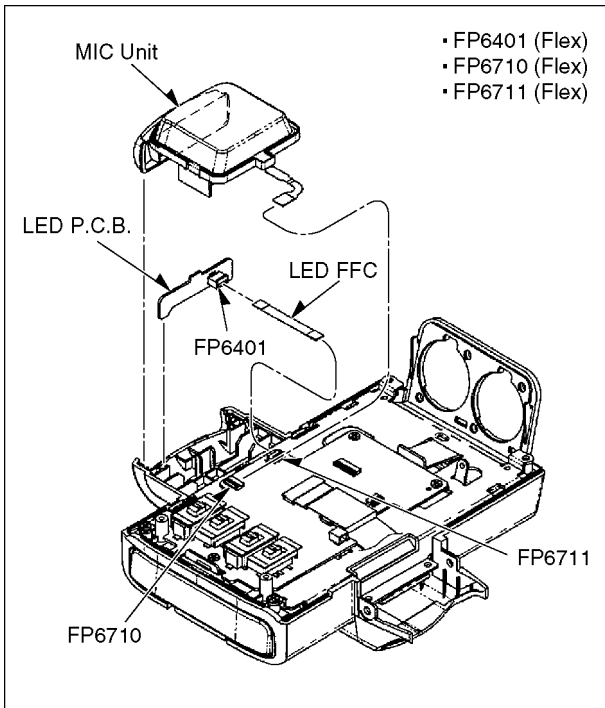
(Fig. D26)

### 8.3.22. Removal of the XLR P.C.B.

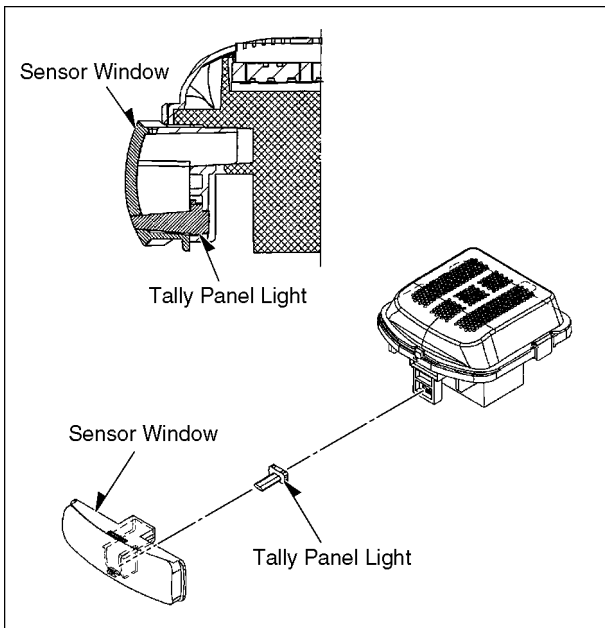


(Fig. D27)

### 8.3.23. Removal of the LED P.C.B.

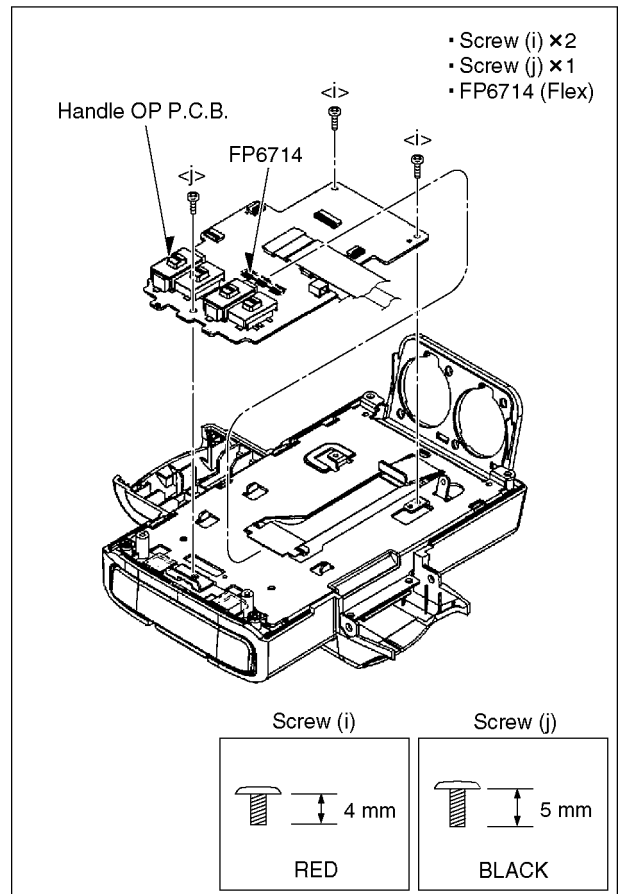


(Fig. D28)

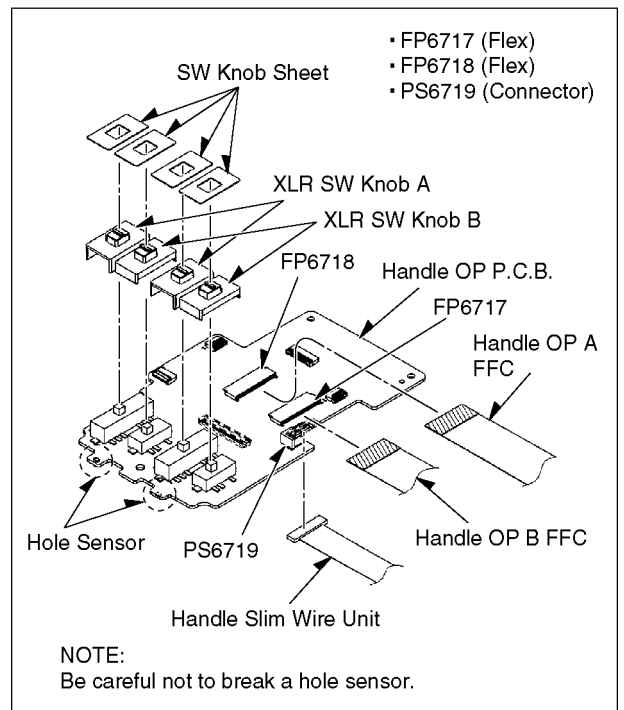


(Fig. D29)

### 8.3.24. Removal of the Handle OP P.C.B.

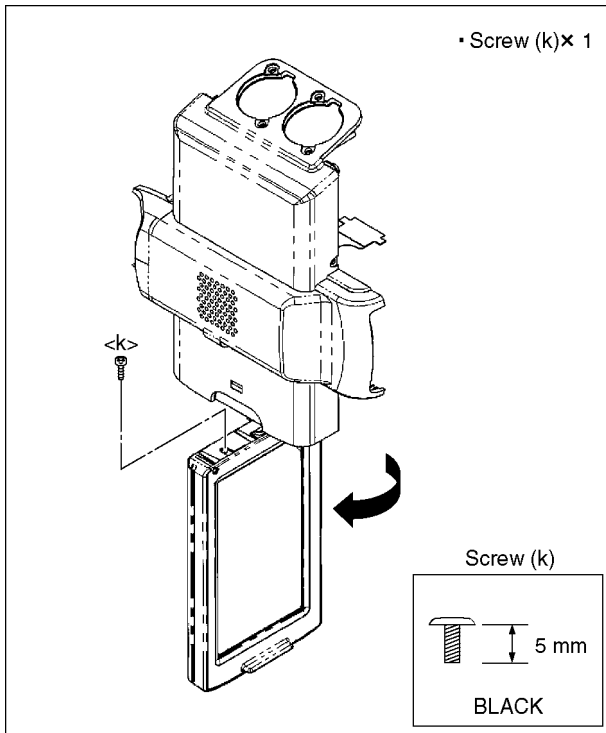


(Fig. D30)

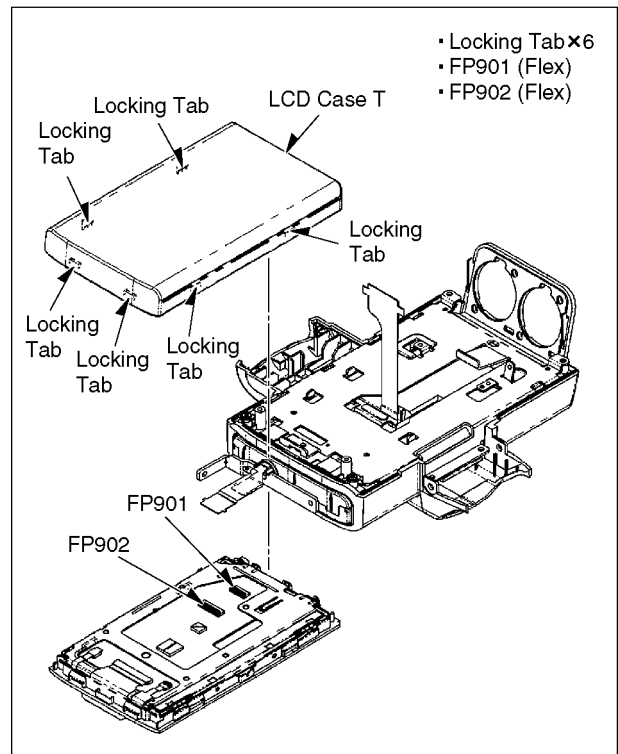


(Fig. D31)

### 8.3.25. Removal of the LCD Case T

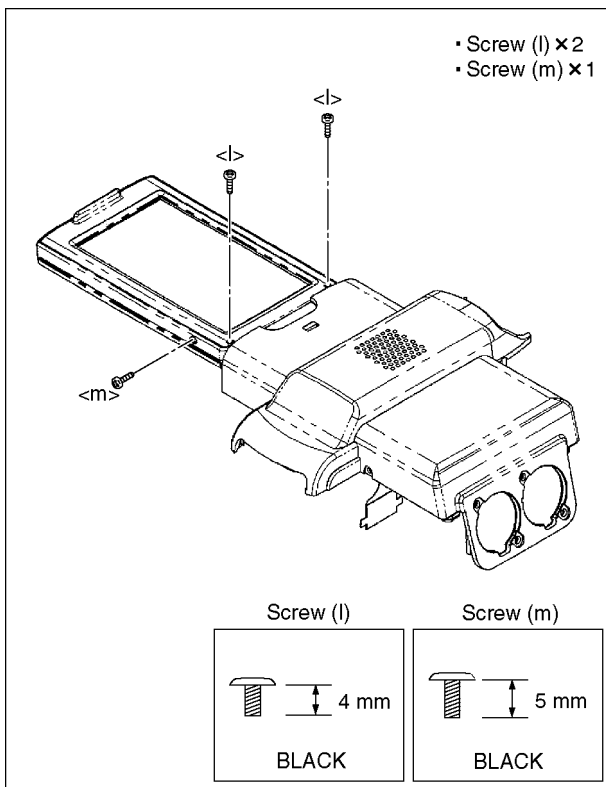


(Fig. D32)

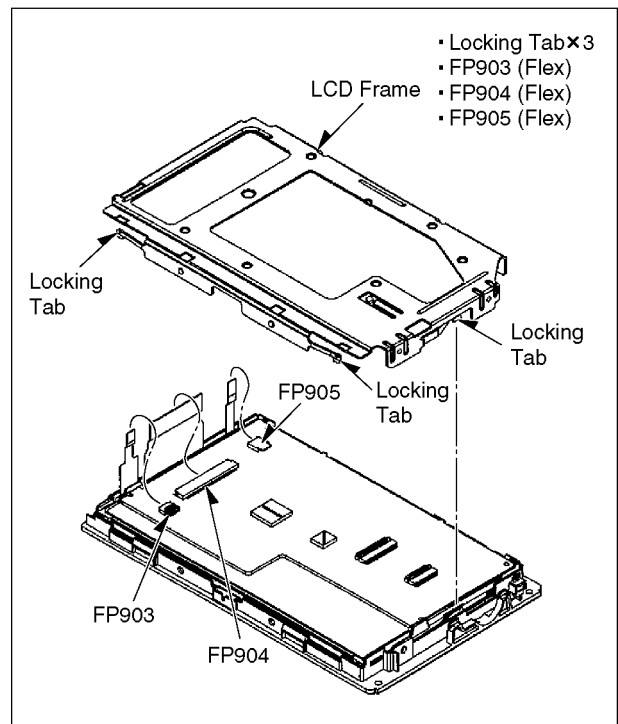


(Fig. D34)

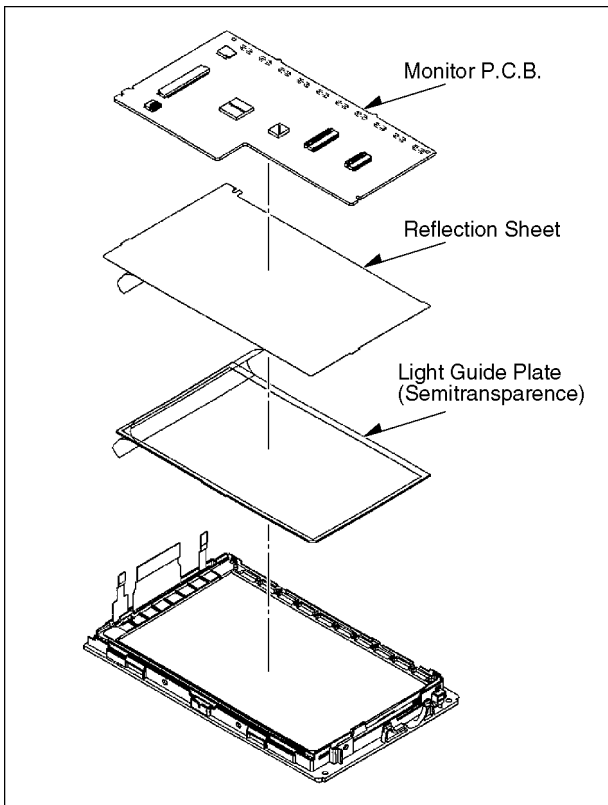
### 8.3.26. Removal of the Monitor P.C.B.



(Fig. D33)

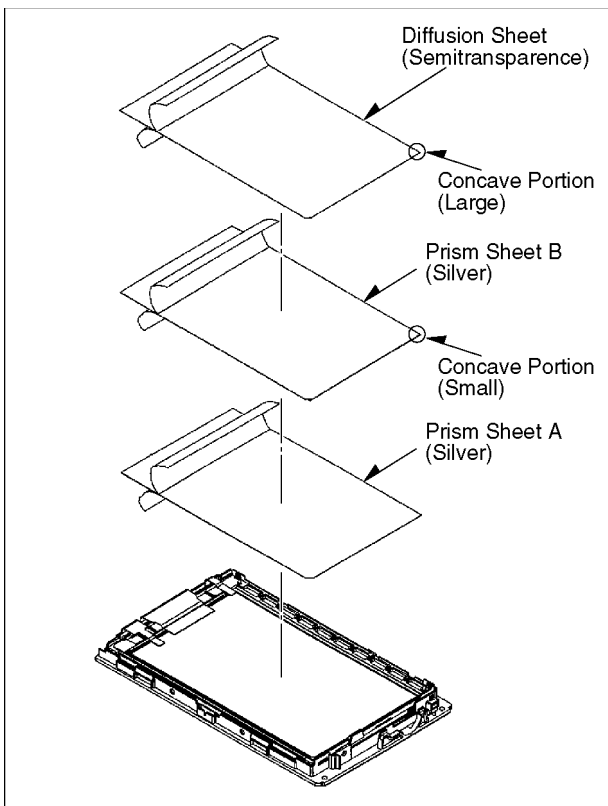


(Fig. D35)

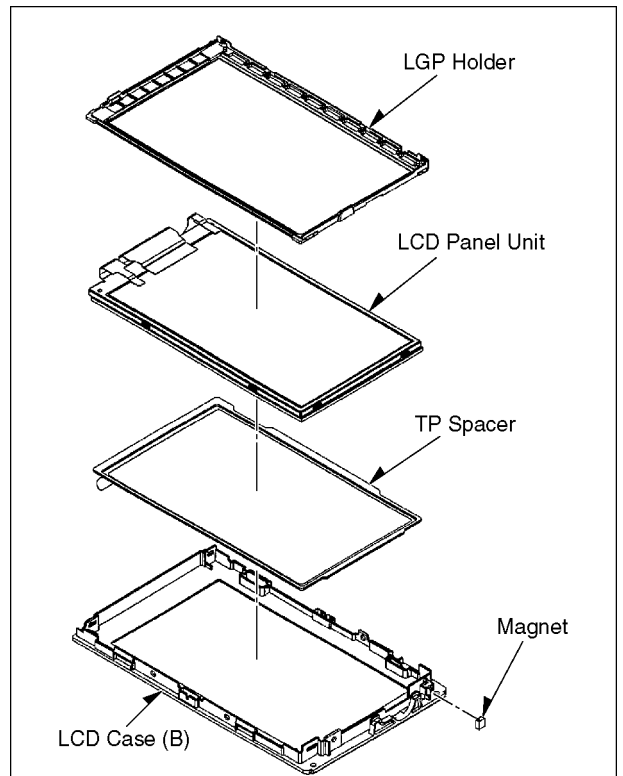


(Fig. D36)

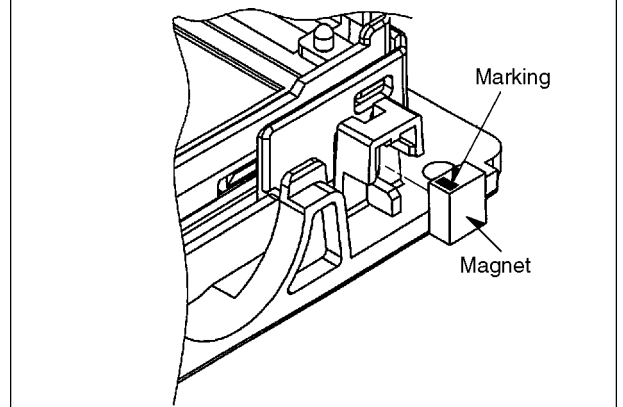
### 8.3.27. Removal of the LCD Panel Unit



(Fig. D37)

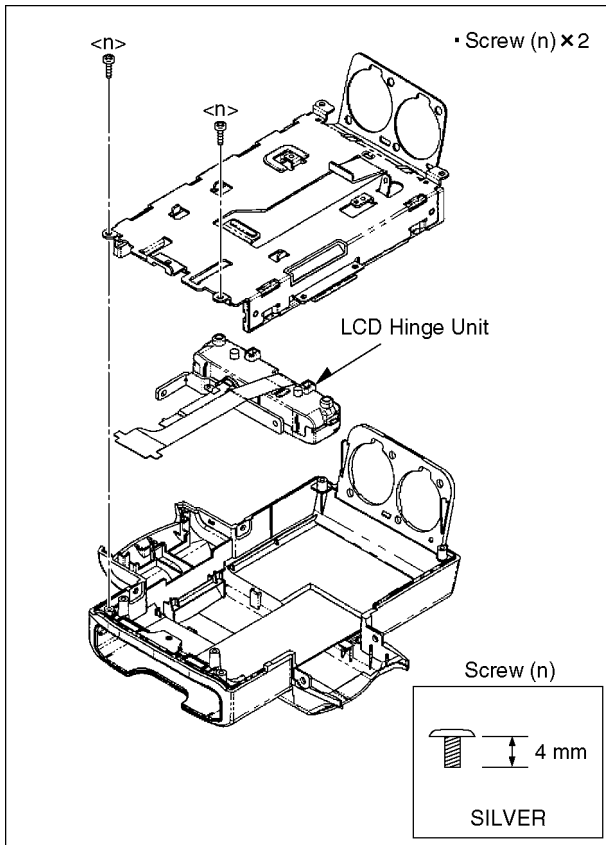


■ Installing point of the magnet

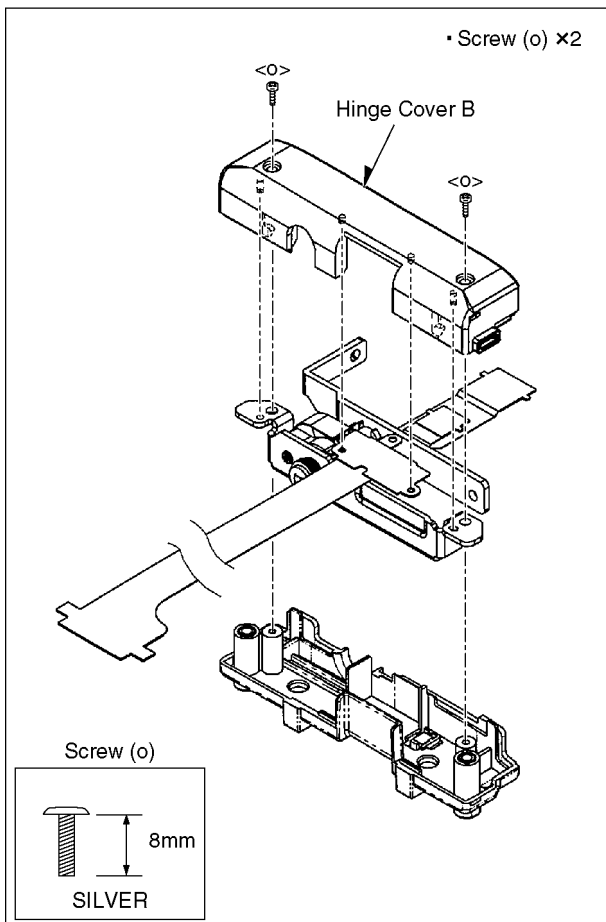


(Fig. D38)

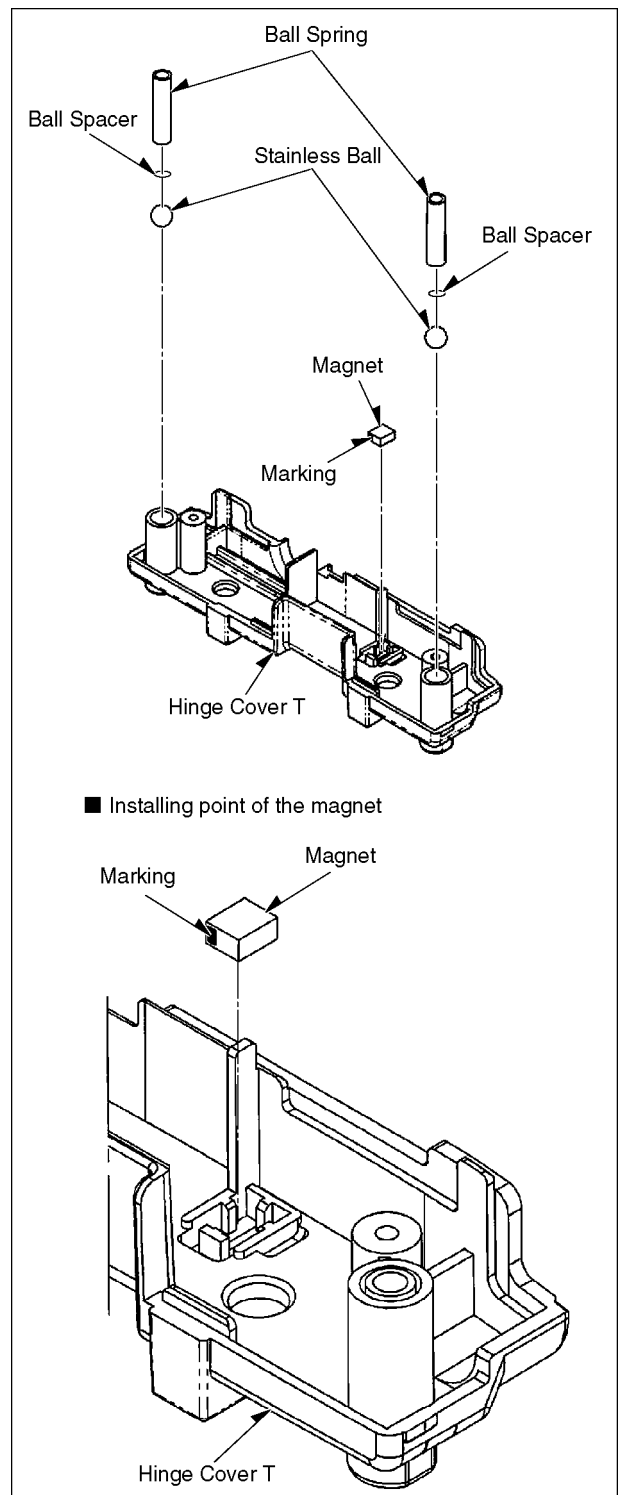
### 8.3.28. Removal of the LCD Hinge Unit



(Fig. D39)

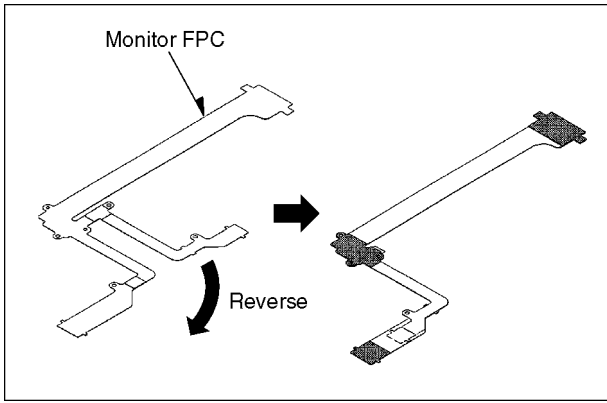


(Fig. D40)

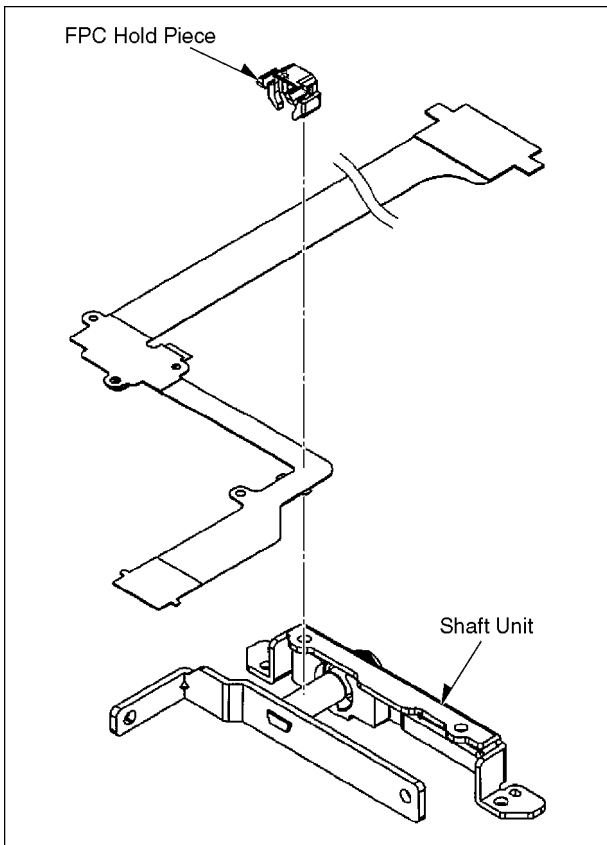


(Fig. D41)

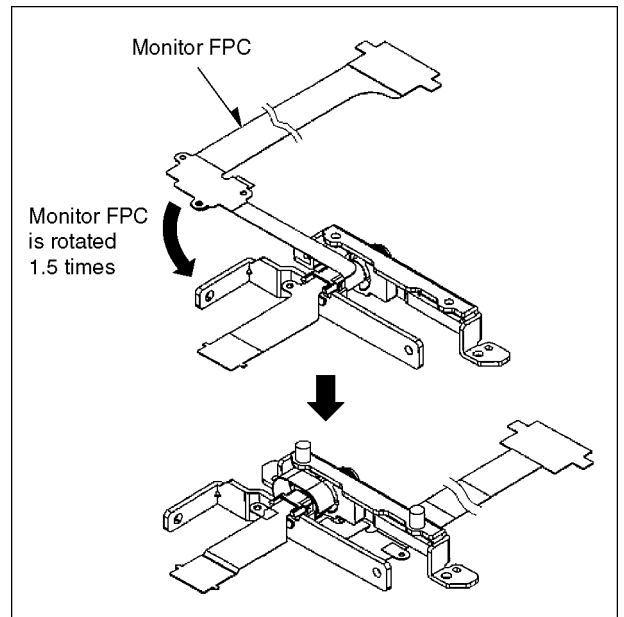
■ Installing point



(Fig. D42)

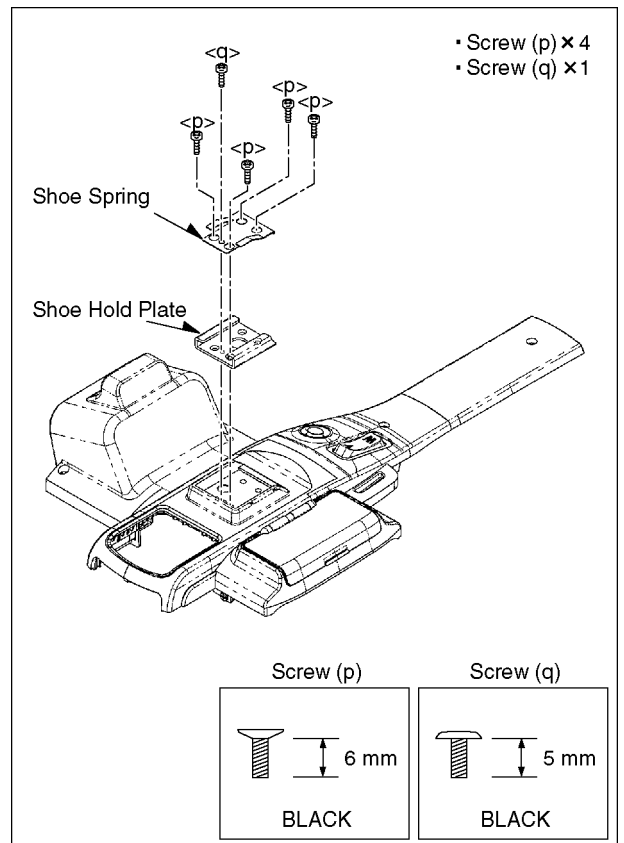


(Fig. D43)

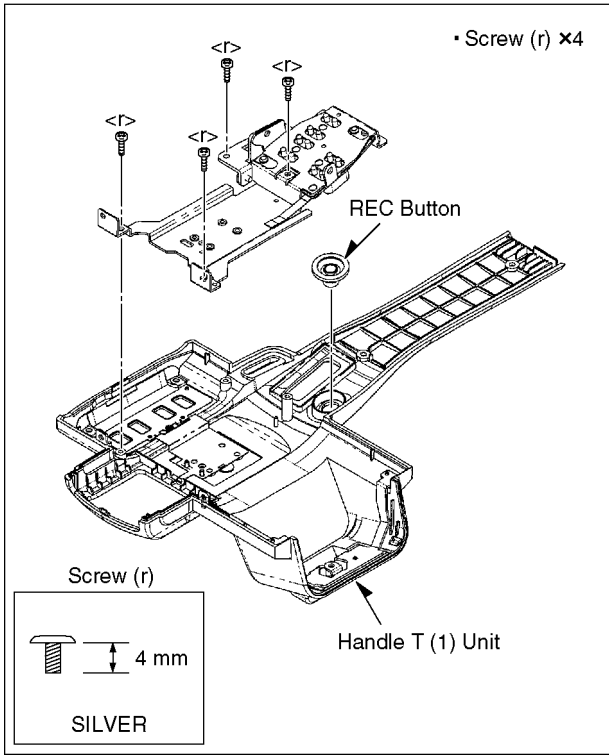


(Fig. D44)

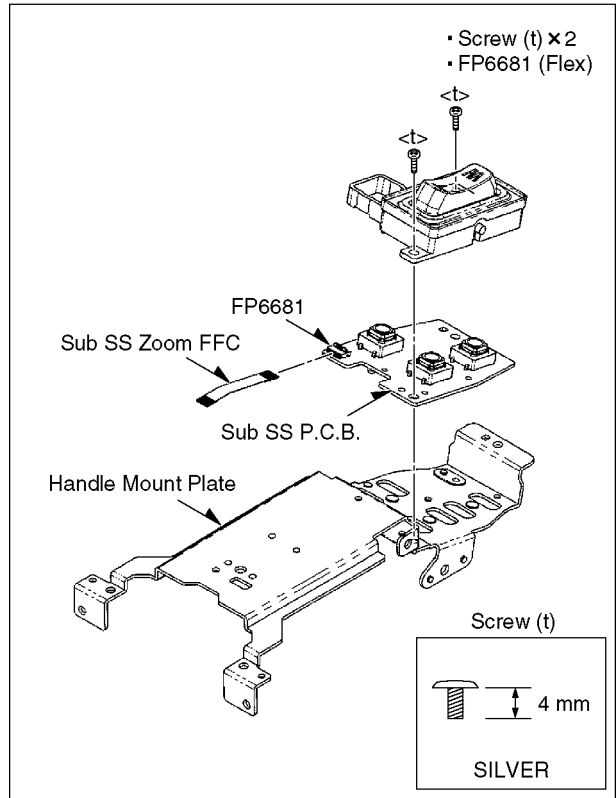
**8.3.29. Removal of the Sub SS P.C.B.**



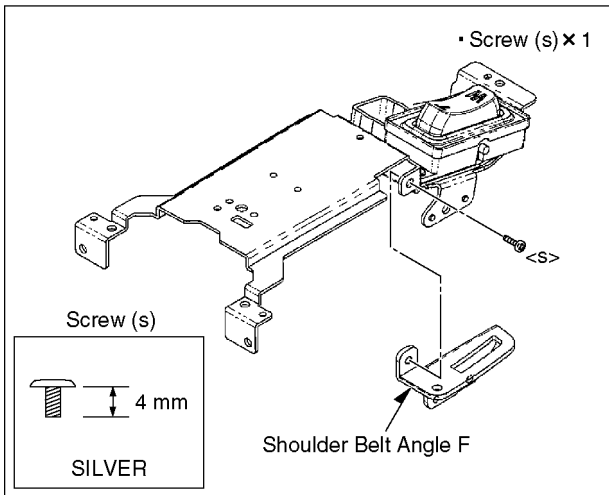
(Fig. D45)



(Fig. D46)

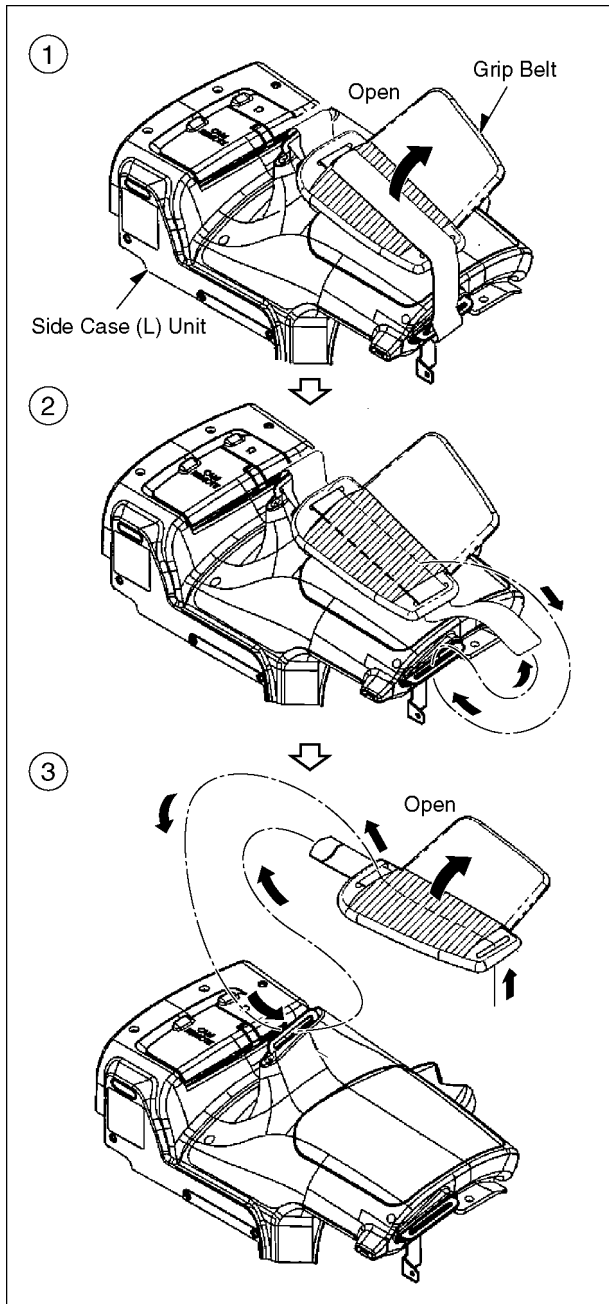


(Fig. D48)

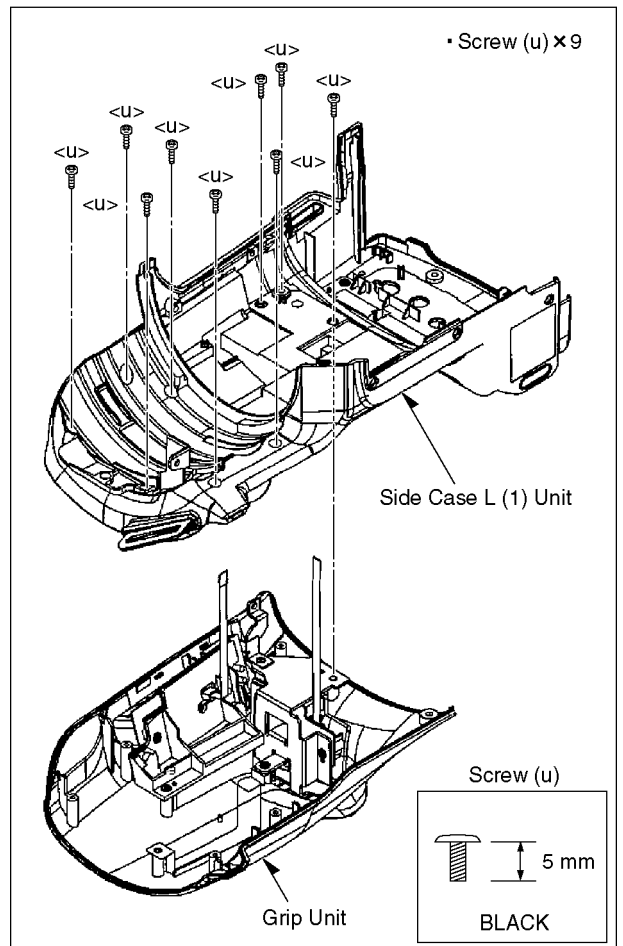


(Fig. D47)

### 8.3.30. Removal of the Side Case L (1) / Grip Unit

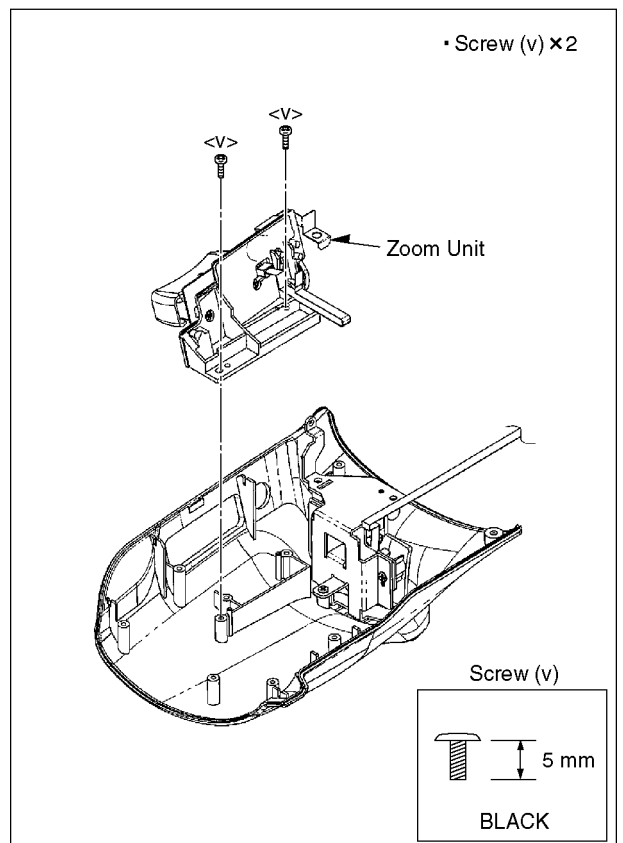


(Fig. D49)

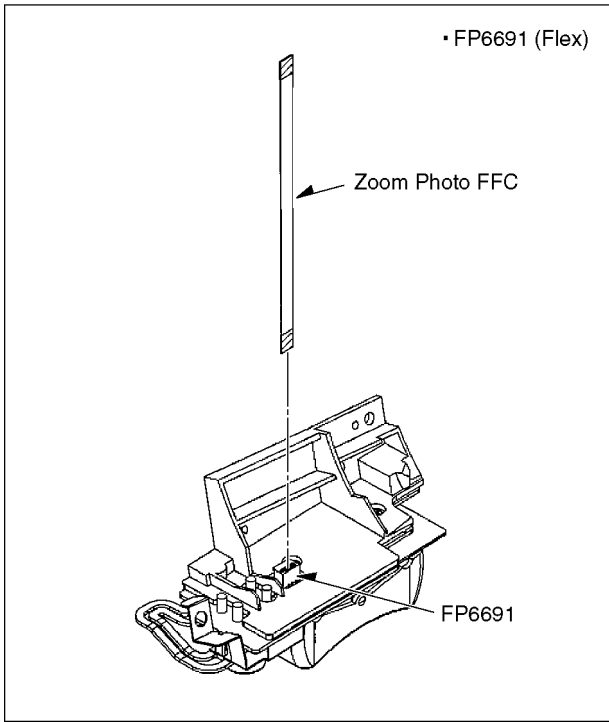


(Fig. D50)

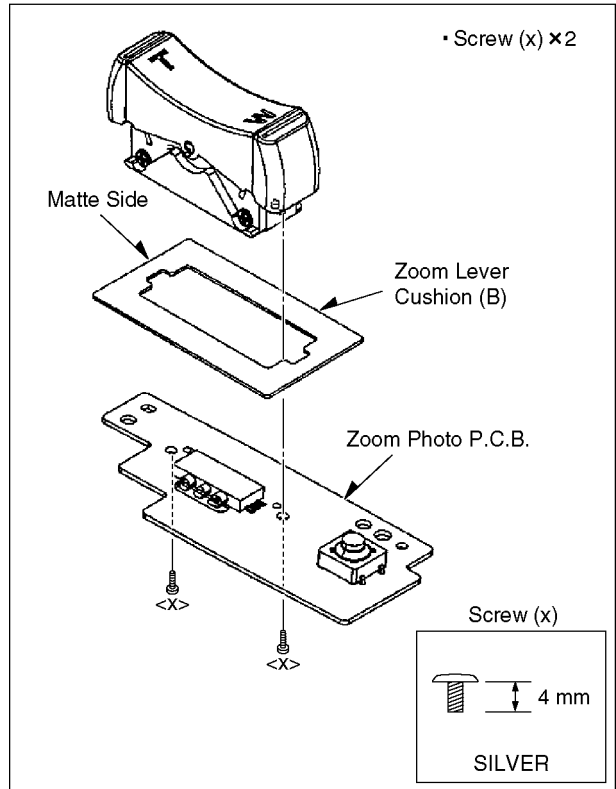
### 8.3.31. Removal of the Zoom Photo P.C.B.



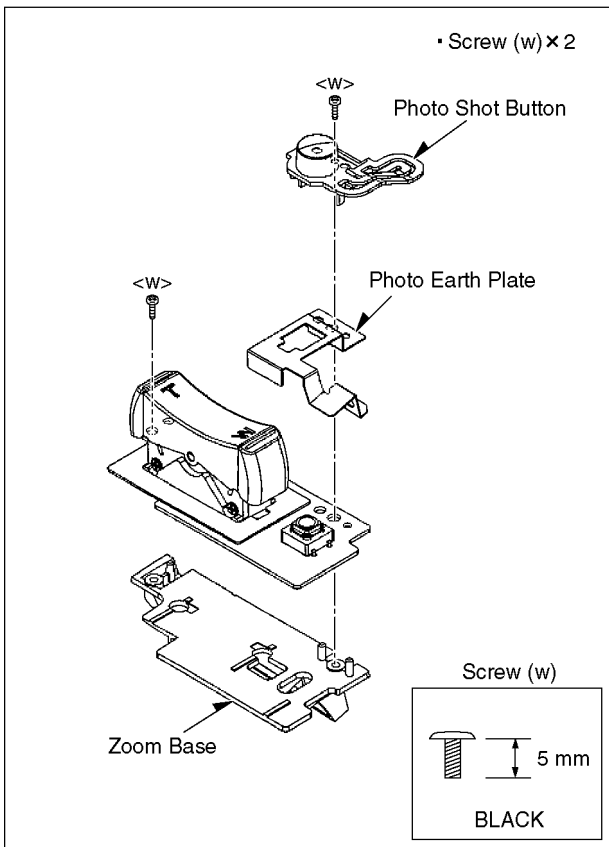
(Fig. D51)



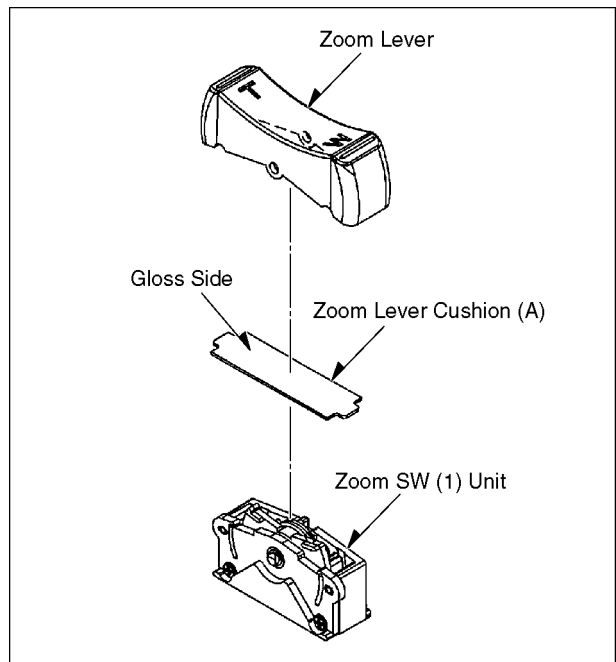
(Fig. D52)



(Fig. D54)

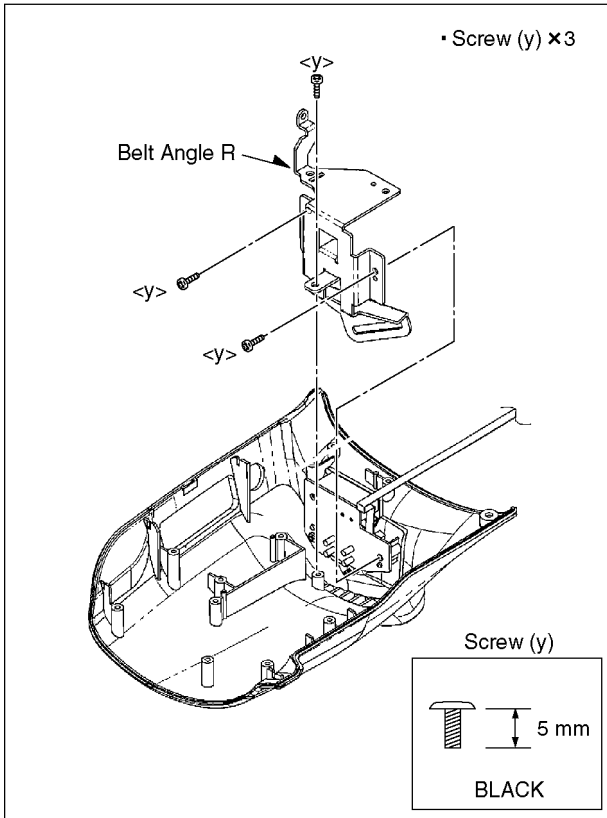


(Fig. D53)

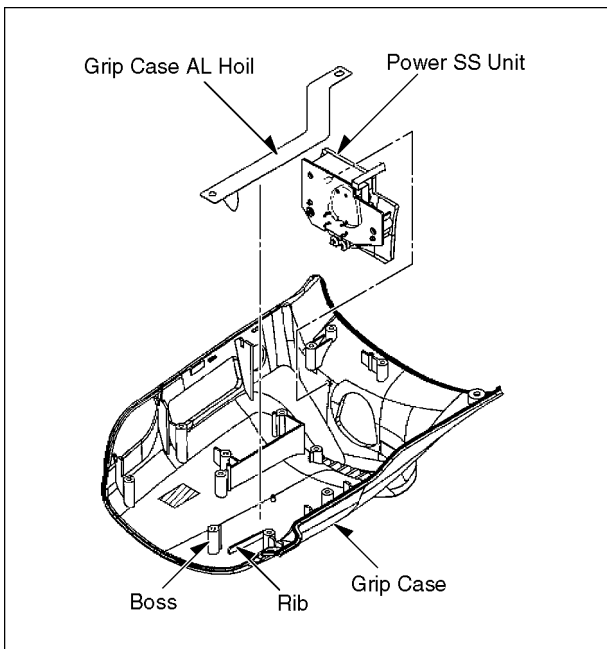


(Fig. D55)

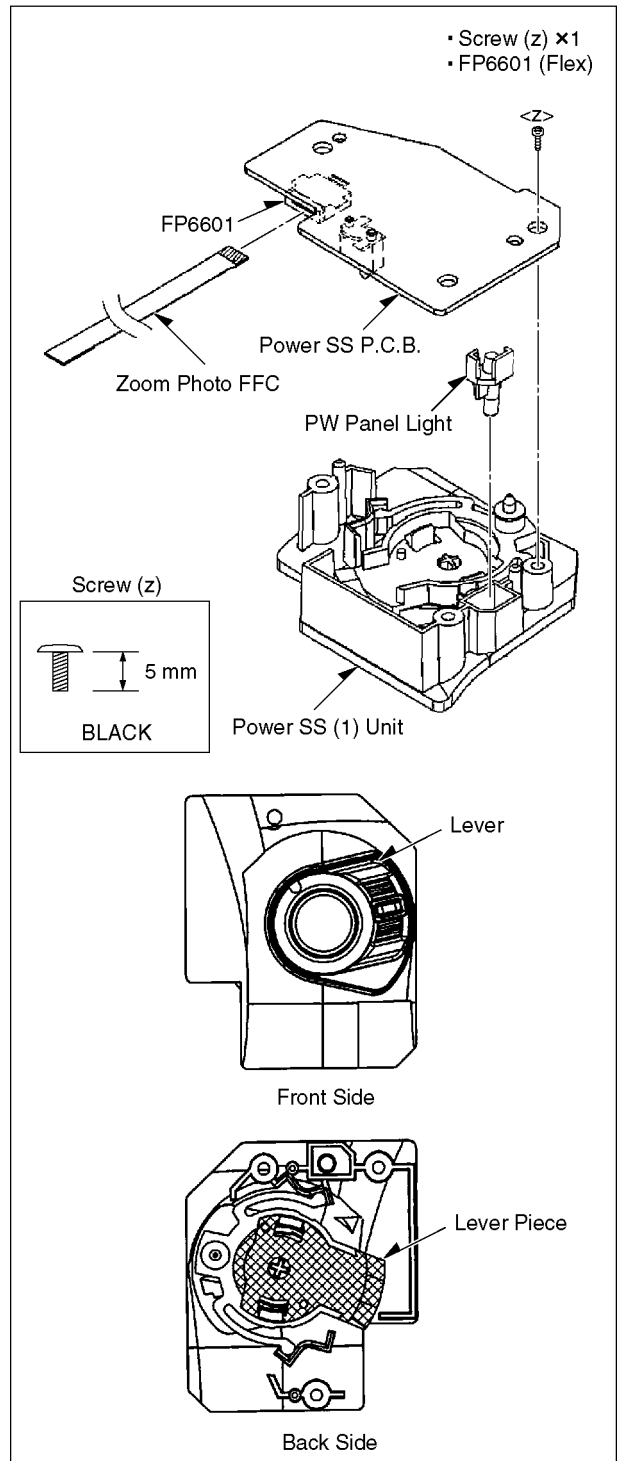
### 8.3.32. Removal of the Power SS P.C.B.



(Fig. D56)



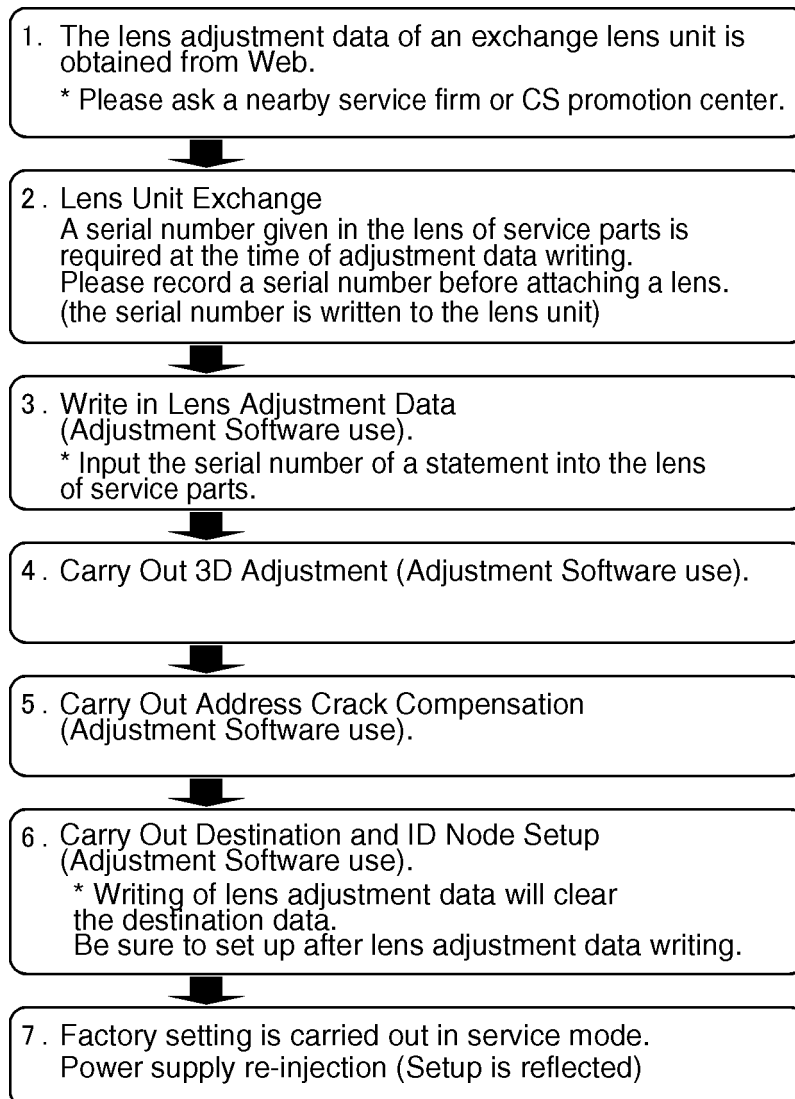
(Fig. D57)



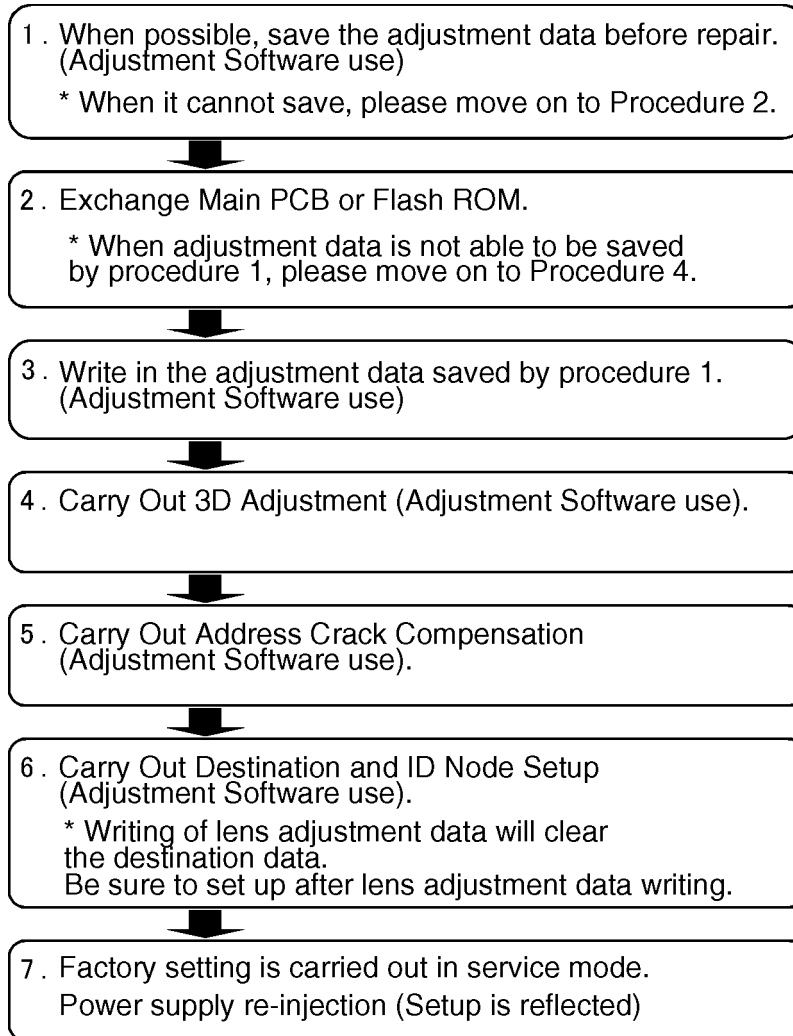
(Fig. D58)

## 9 Measurements and Adjustments

### 9.1. Adjustment flow chart after the lens unit exchanged



## 9.2. Adjustment flow after Main PCB or IC3403 (Flash ROM) exchanged



## 9.3. 3D Adjustment

### Preparation

- Set up HDC-Z10000 as follows.
  - 3D Recording Mode
  - Zoom T side (×10)
  - 3D display is set to MIX display
  - Convergence reset
  - Display a guideline.



- Set up connection as follows.
  - Stick 3D inspection chart of attachment in adjustment software on the perpendicular surface of a wall etc..
  - Install HDC-Z10000 in the front of 3D inspection chart.

It fixes so that the horizontal line of 3D inspection chart and guideline may be displayed horizontally on LCD screen.  
The intersection of the horizontal and vertical line of a chart be contained in the range of central hatching.

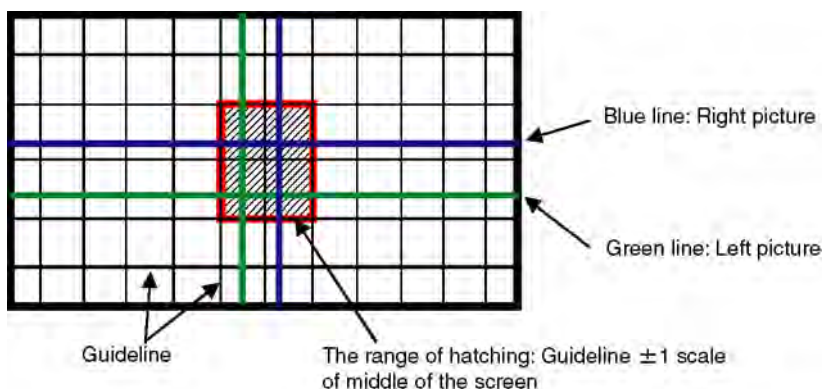
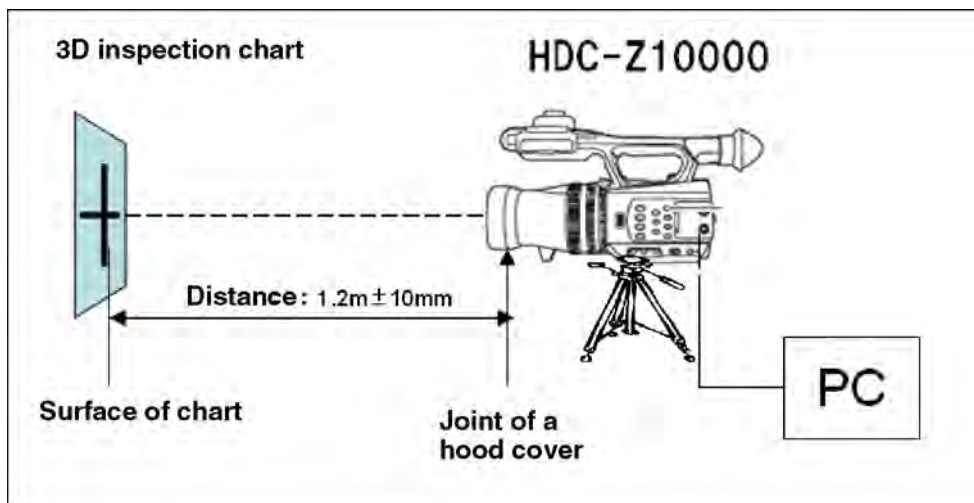


Figure of connection



\* 3D inspection chart is attached to adjustment software.

### Adjustment

- Connect the main unit to PC with USB.
- Refer to an enclosed description for a detailed adjustment procedure to adjustment software.

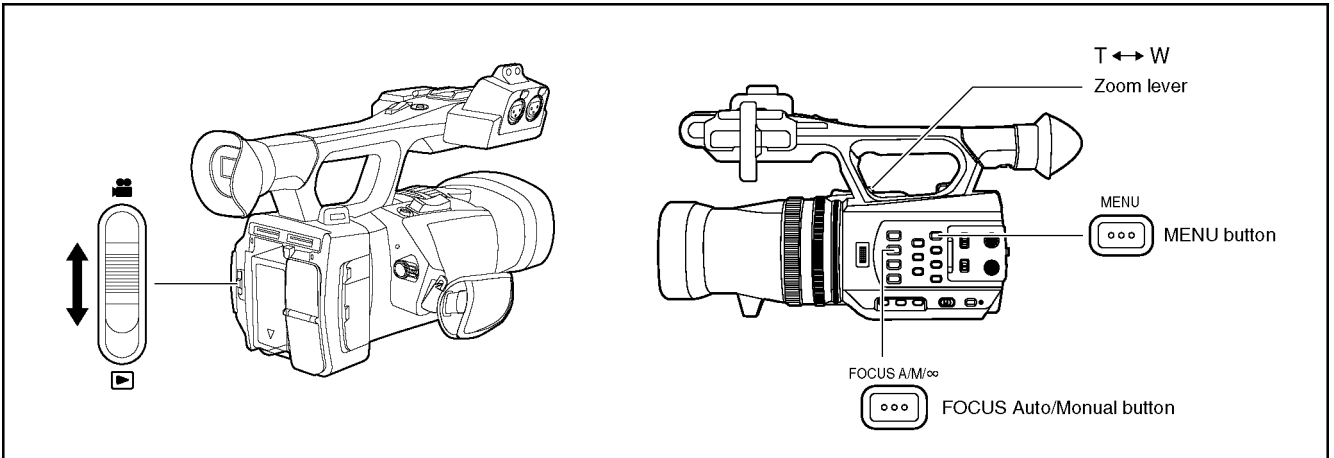
### Part Number of jig

No.	Part Name	Part Number	Remarks
1	AC Adaptor	---	Bundled items
2	USB Cable	---	Bundled items
3	PC	---	
4	Adjustment Software (Tatsujin)	---	Download from Web.
5	3D inspection chart	---	Including adjustment software
6	Tripod	---	Commercial item

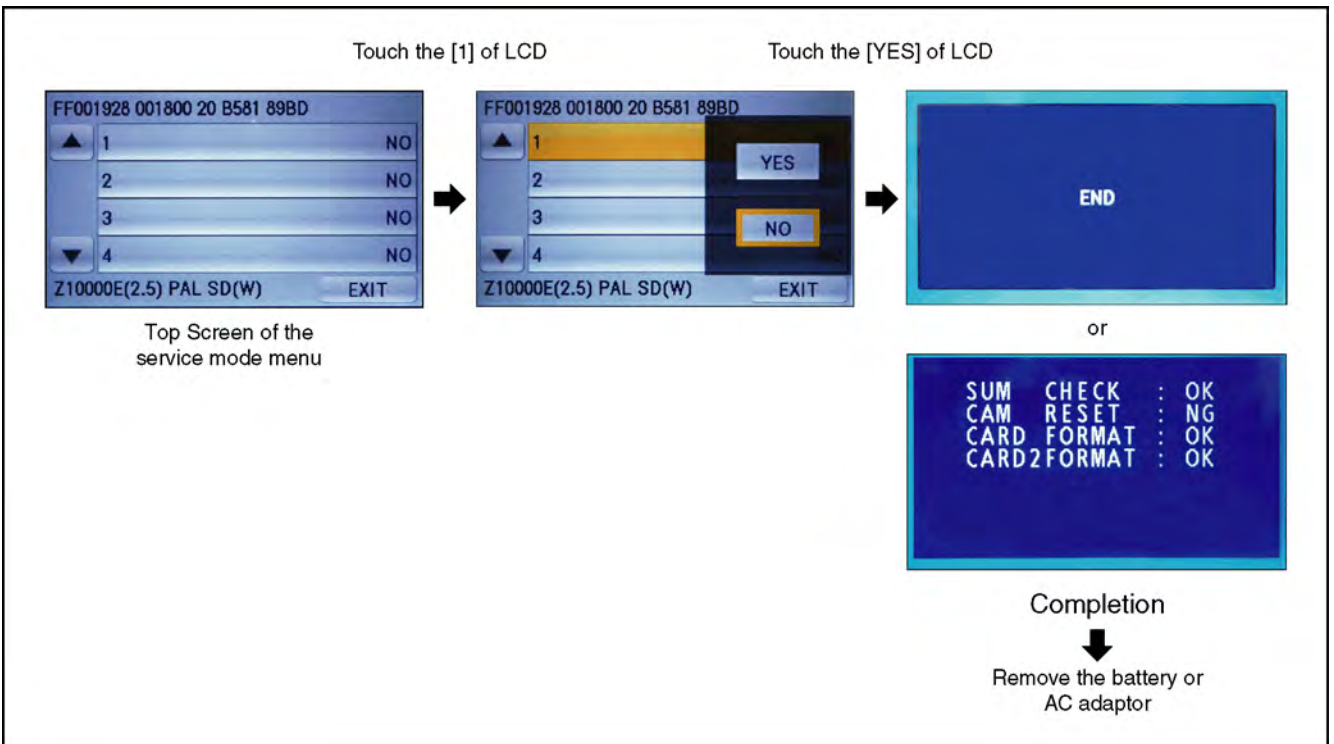
# 10 Factory Setting

## 10.1. How To Turn On The Factory Settings?

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



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



## 10.2. What is The Factory Settings?

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

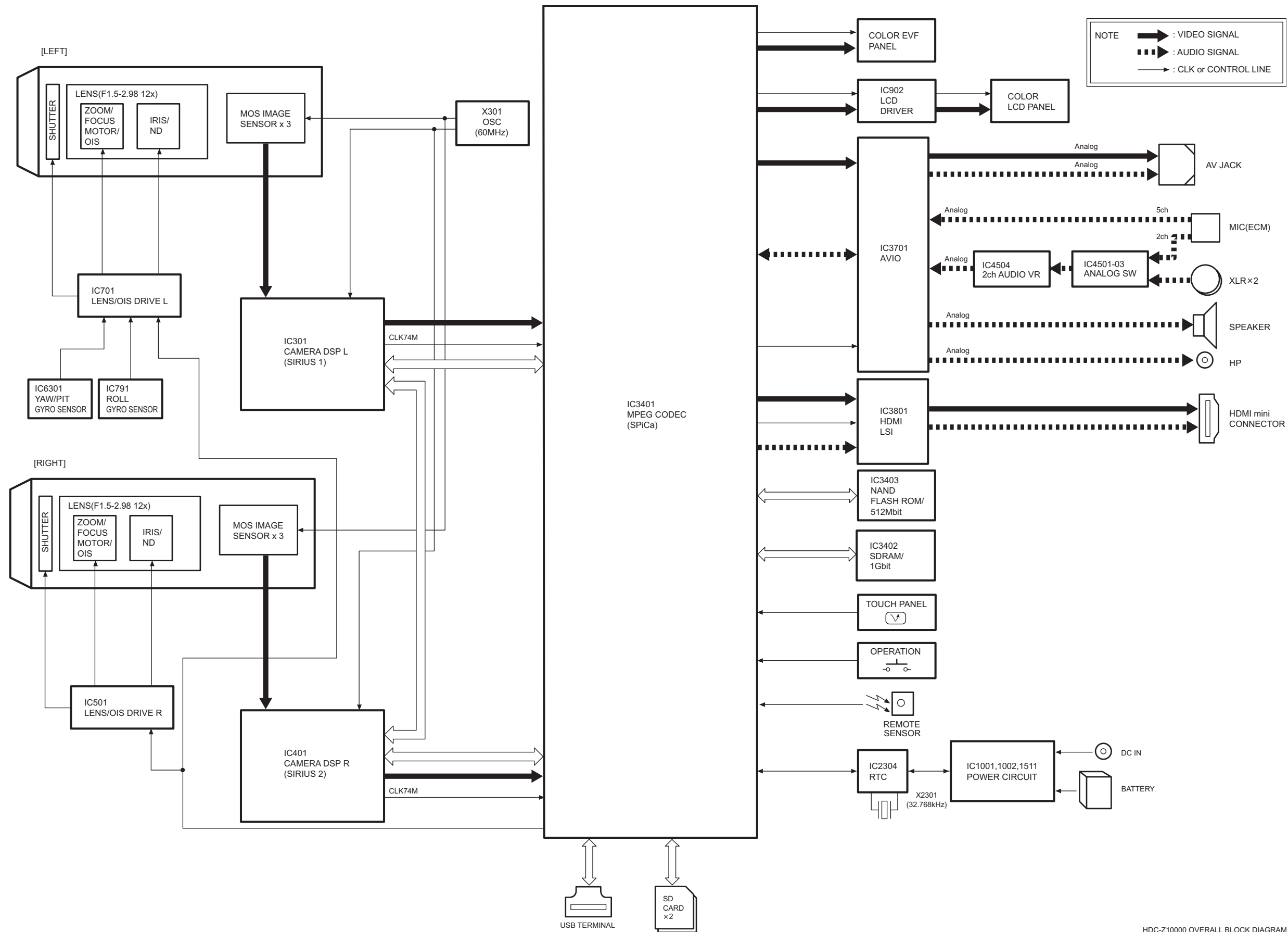
1. MENU, MODE, ADJUSTMENT VALUE.
2. SD card format.
3. Reset the folder number and file number of still pictures.  
(Setting the folder number is 100, and file number is 0.)
4. Clear the mechanism lock information.
5. Clear the service mode information contents.
6. Initialize the VIERA Link Physical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

**The setting position of factory settings:**

Name	Setting position
INPUT1	MIC
+48V	OFF
INPUT2	MIC
+48V	OFF
CH1	INT(L)
VOL	CENTER
CH2	INT(R)
VOL	CENTER
Eyepiece corrector lever	MYOPIA
Mode switch	REC
Intelligent auto/Manual switches	MANU
Power switch	OFF

# 11 Block Diagram

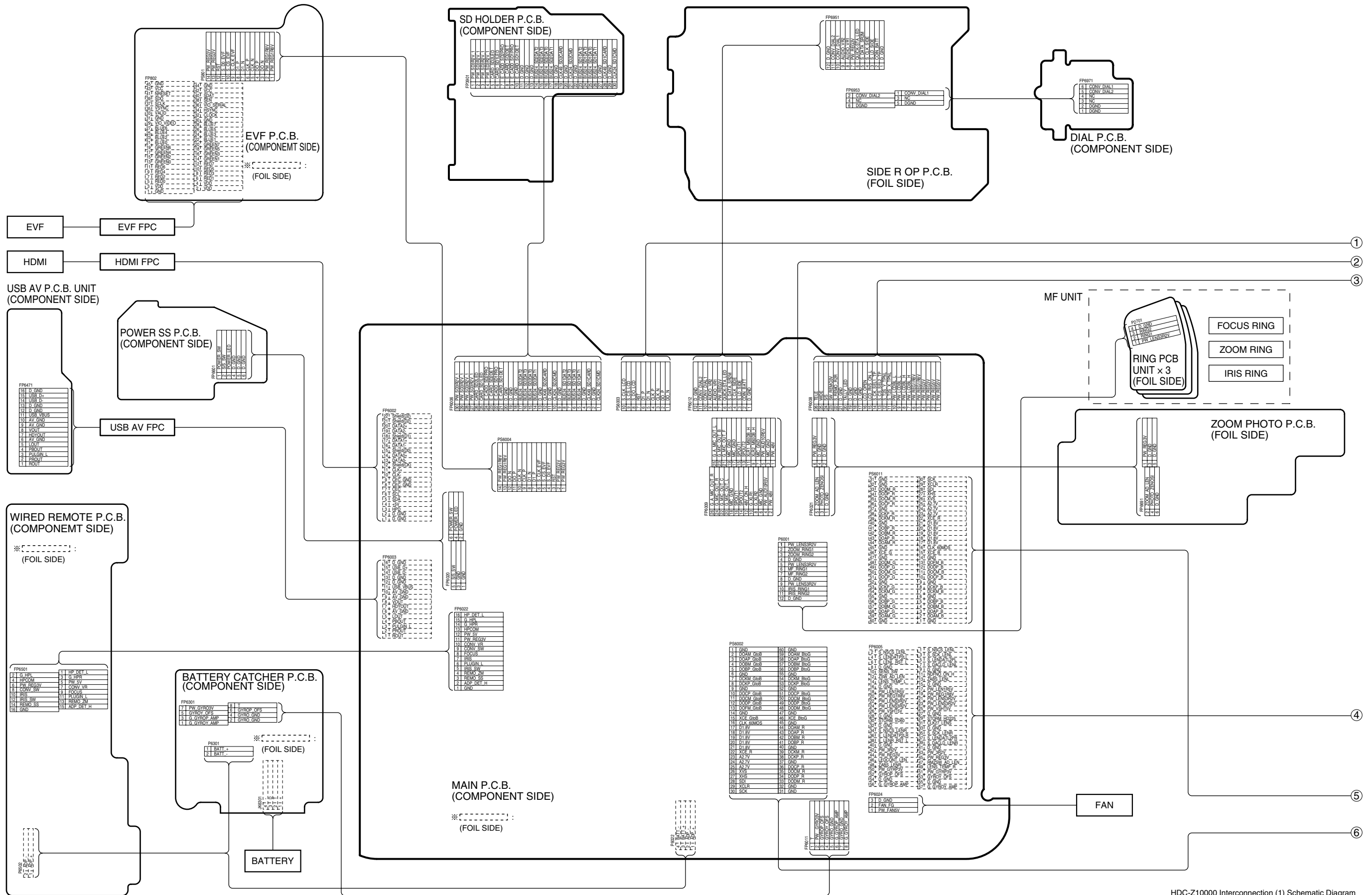
## 11.1. Overall Block Diagram



HDC-Z10000 OVERALL BLOCK DIAGRAM

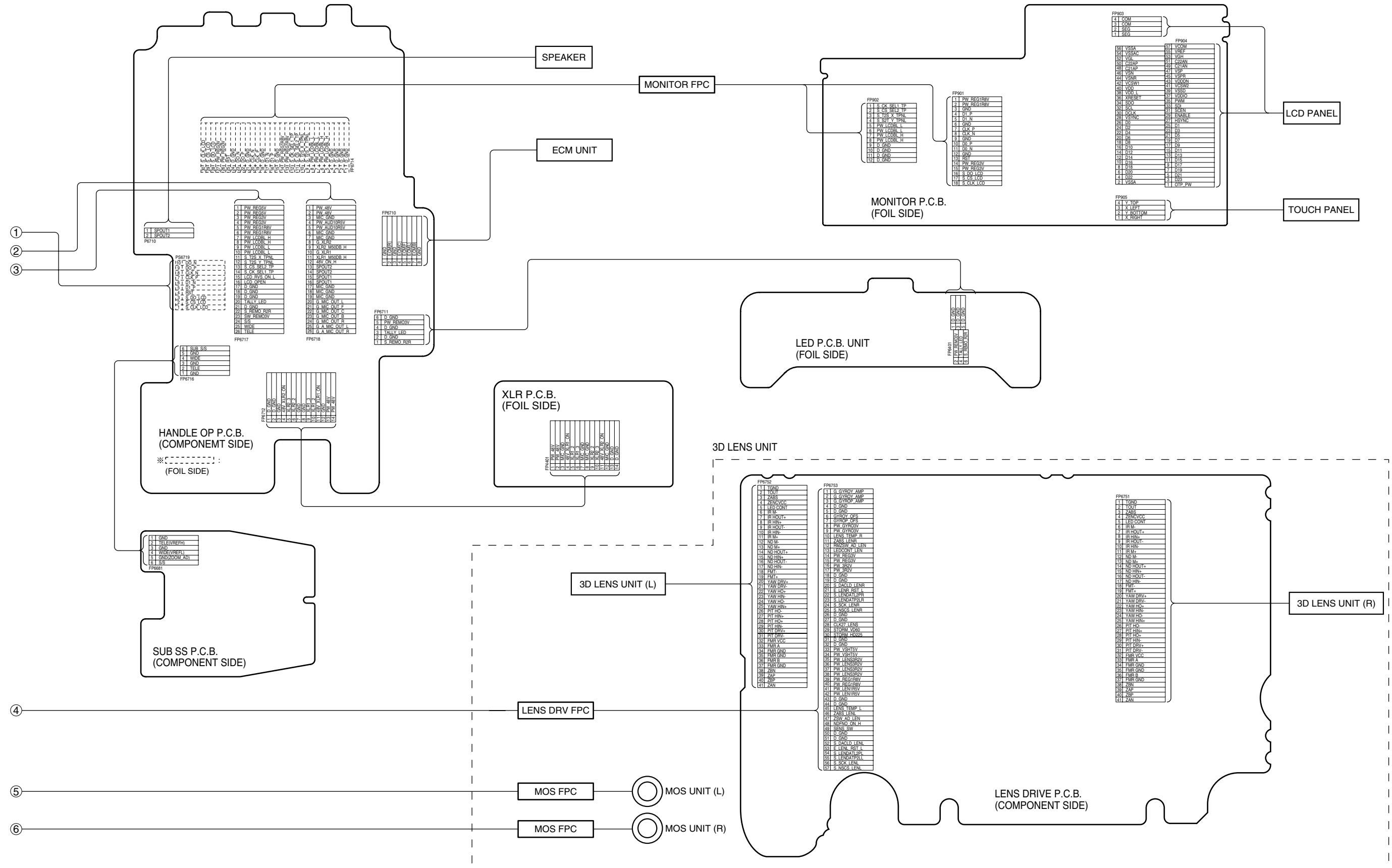
# 12 Wiring Connection Diagram

## 12.1. Interconnection(1) Diagram



HDC-Z10000 Interconnection (1) Schematic Diagram

## 12.2. Interconnection(2) Diagram

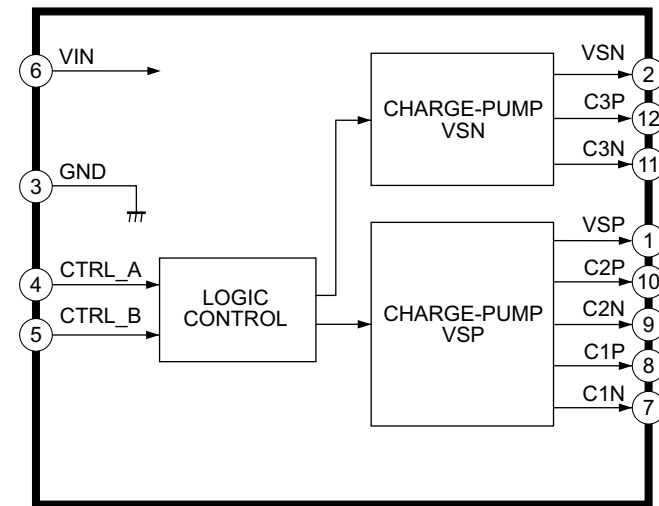


HDC-Z10000 Interconnection (2) Schematic Diagram

# 13 Others

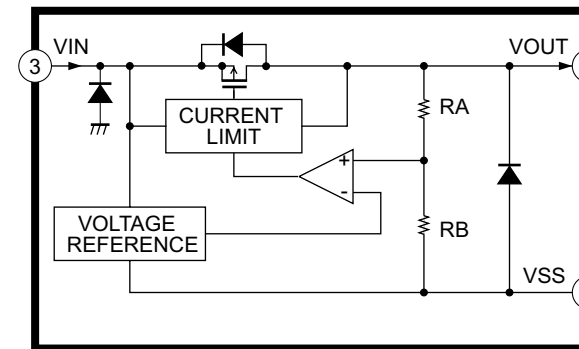
## 13.1. Description of Major ICs (1)

IC903  
C1ZBZ0004521  
CHANGE PUMP CONTROLLER



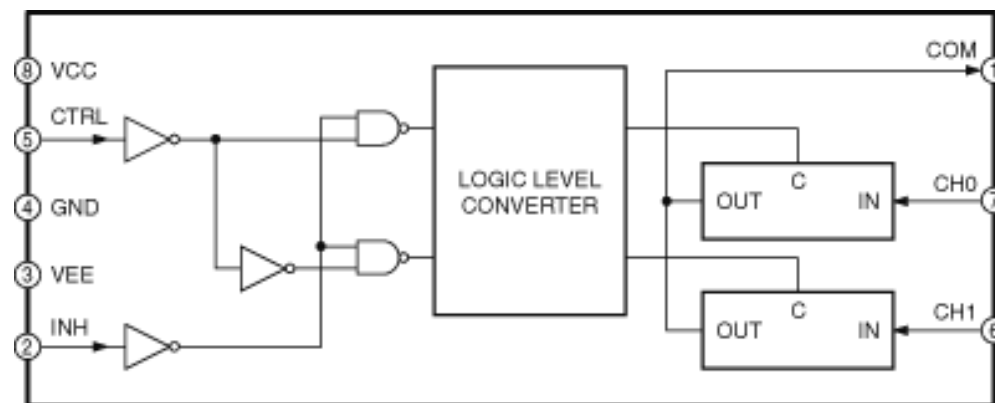
Pin	Label	I/O	Description
1	VSP	O	Positive terminal of the output
2	VSN	O	Negative terminal of the output
3	GND	-	GND
4	CTRL_A	I	Control signal 1, this signal should be low when no pump.
5	CTRL_B	I	Control signal 2, this signal should be low when no pump.
6	VIN	I	Power supply
7	C1N	O	Negative terminal of the charge-pump transfer capacitor 1 (1.0uF/10V)
8	C1P	O	Positive terminal of the charge-pump transfer capacitor 1 (1.0uF/10V)
9	C2N	O	Negative terminal of the charge-pump transfer capacitor 2 (1.0uF/10V)
10	C2P	O	Positive terminal of the charge-pump transfer capacitor 2 (1.0uF/10V)
11	C3N	O	Negative terminal of the charge-pump transfer capacitor 3 (1.0uF/10V)
12	C3P	O	Positive terminal of the charge-pump transfer capacitor 3 (1.0uF/10V)

IC4708  
C0DBGYY01912  
REGULATOR

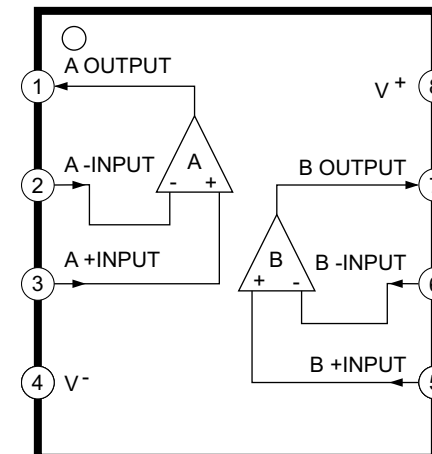


Pin	Label	I/O	Description
1	VOUT	O	Regulated voltage output
2	VSS	-	Ground
3	VIN	I	Supply voltage input

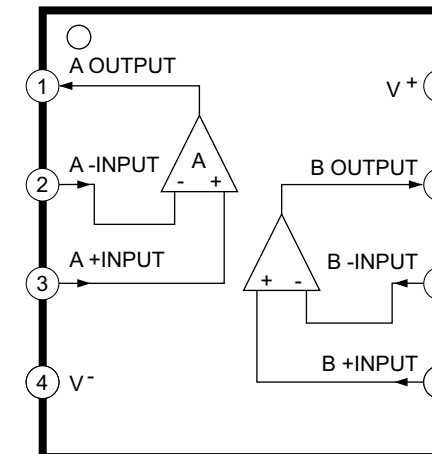
IC4703 IC4706  
C0JBAR000432  
Signal Selector IC



IC4701 IC4702 IC4704 IC4705 IC4806  
C0ABBB000220  
COMPARATOR

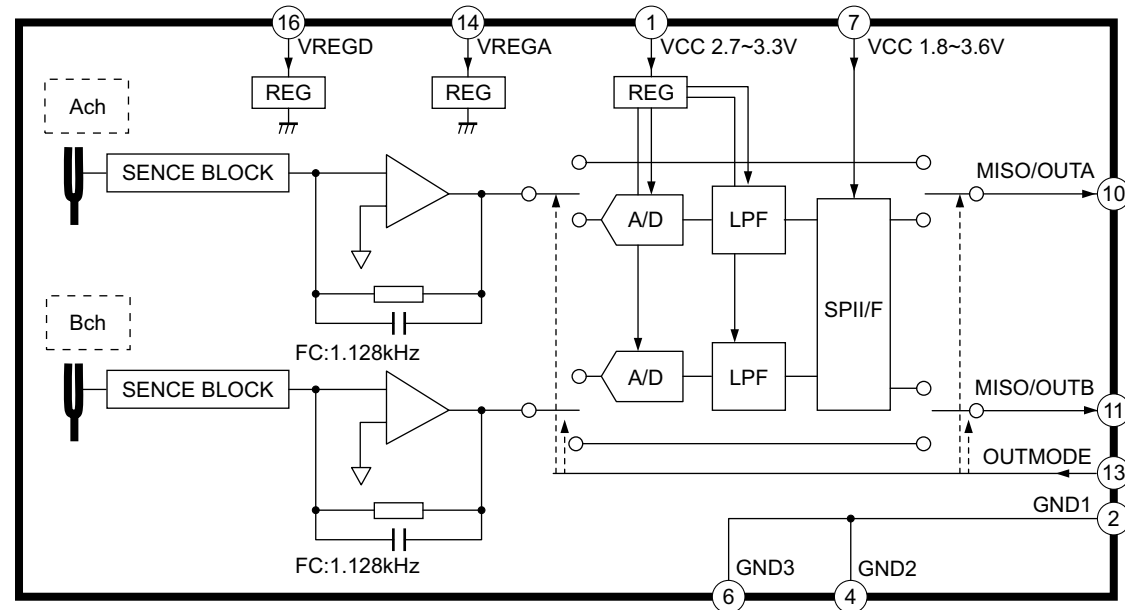


IC4801 IC4802 IC4803 IC4804 IC4805  
C0ABBB000369  
COMPARATOR



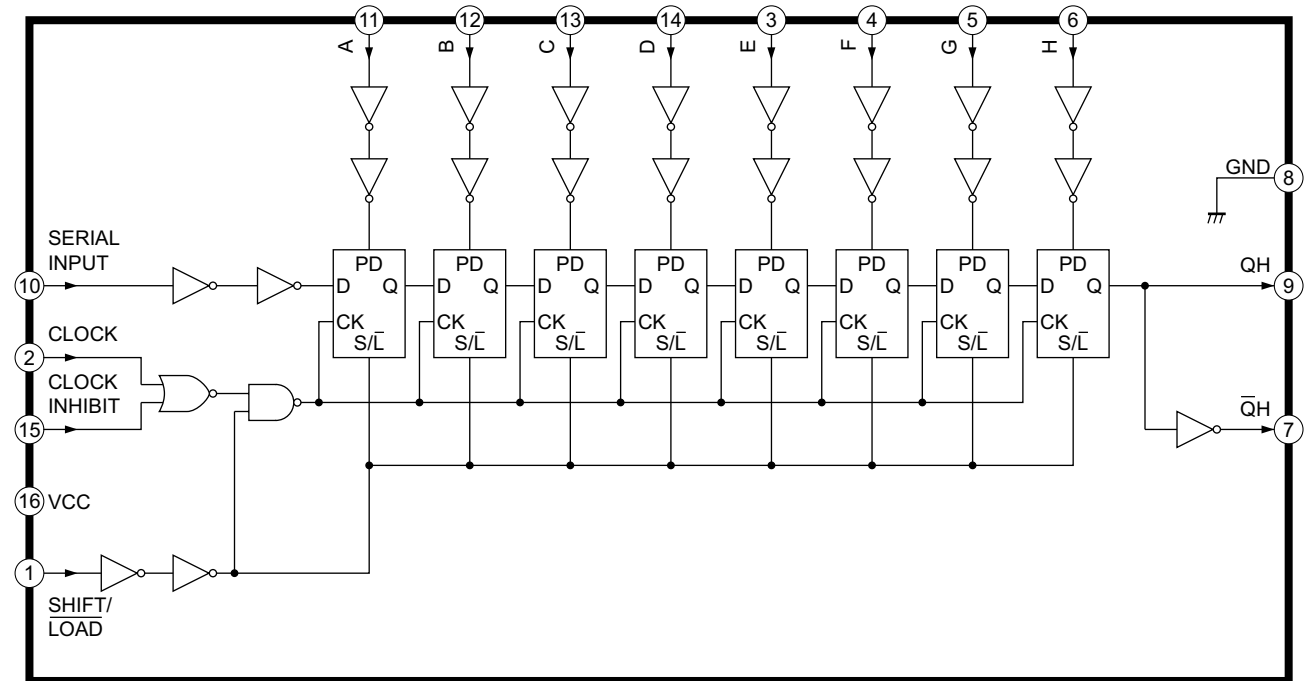
## 13.2. Description of Major ICs (2)

IC6301  
EWTS9PSL11  
2AXIS ANGULAR RATE SENSOR



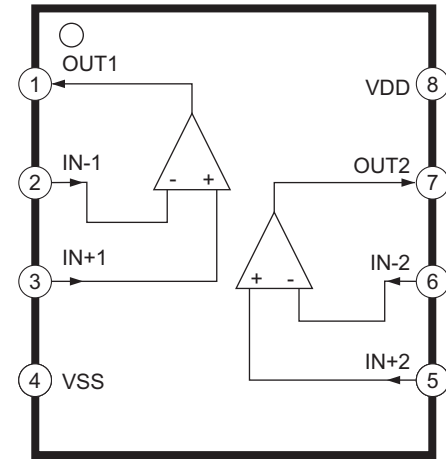
Pin	Label	I/O	Description
1	VCC	I	Power supply for analog block
2	GND1	-	GND
3	V1	I	Internal reference voltage
4	GND2	-	GND
5	VREF/COSR	I	Reference voltage/Capacitor of oscillator
6	GND3	-	GND
7	VDD	I	Power supply for digital interface
8	CSB	O	Chip select (for Digital output mode)
9	SCLK	O	Serial clock (for Digital output mode)
10	MISO/OUTA	O	Serial data output (Master in slave out for digital output mode)/Output A(for Analog output mode)
11	MOSI/OUTB	O	Serial data input (Master out slave in for digital output mode)/Output B(for Analog output mode)
12	SL	O	Control terminal of sleep mode (for Analog output mode)
13	OUTMODE	I	Control terminal that select analog output mode or digital output mode
14	VREGA	I	Regulator for analog block
15	NC	-	The terminal for internal adjustment (Those with pull down resistance)
16	VREGD	I	Regulator for digital block

IC6951 IC6952 IC6953  
C0JBAQ000253  
8-BIT SHIFT REGISTER

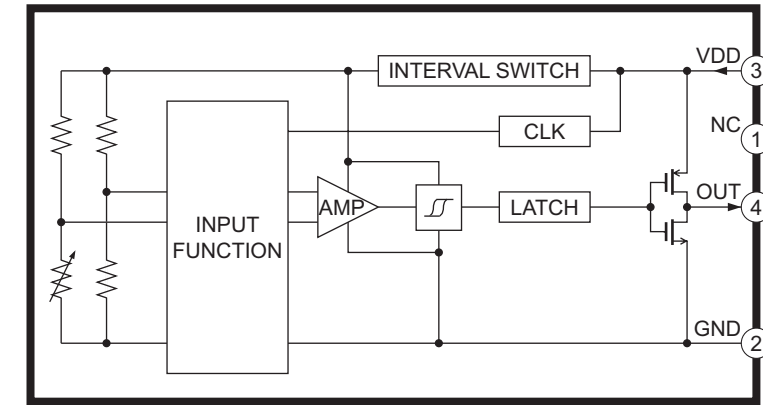


### 13.3. Description of Major ICs (3)

IC6302  
C0ABHA000054  
COMPARATOR

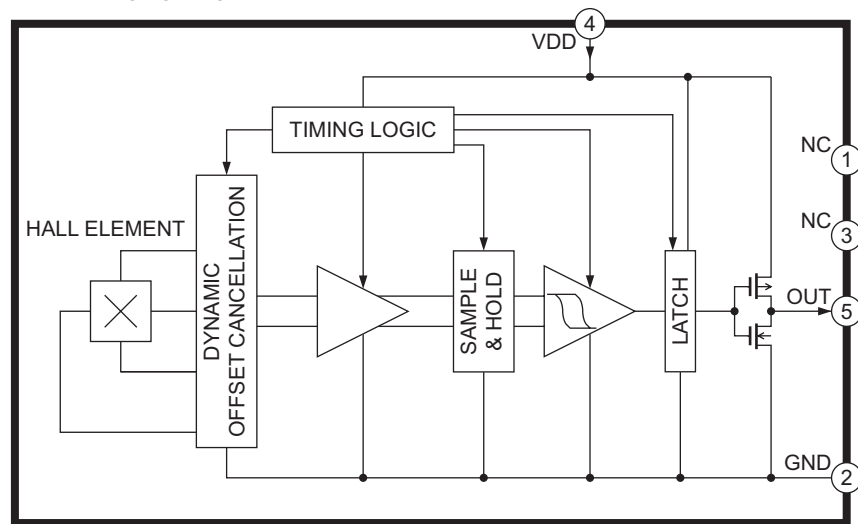


IC6711  
B4ZZ00000031  
MAGNETIC SENSOR



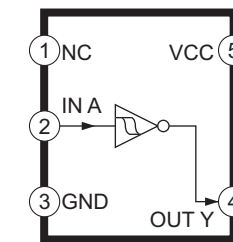
Pin	Label	I/O	Description
1	NC	-	Not connect
2	GND	-	GND
3	VDD	I	Supply voltage
4	OUT	O	Output voltage

IC6710  
B4ABC0000036  
HALL EFFECT SWITCH



Pin	Label	I/O	Description
1	NC	-	Not connect
2	GND	-	GND
3	NC	-	Not connect
4	VDD	I	Power supply
5	OUT	O	Output

IC6957 IC6958  
C0JBAB0000621  
INVERTER

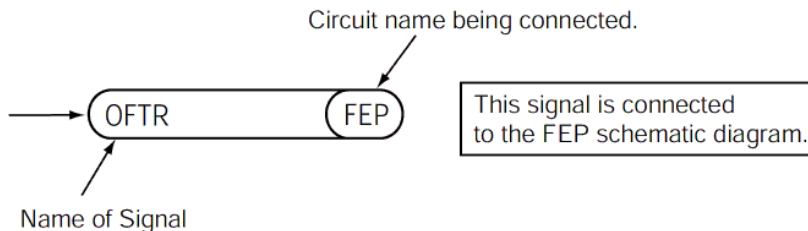


## ◆About Indication of the schematic diagram

### IMPORTANT SAFETY NOTICE:

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

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



- 8.Try to click on the subject repeatedly when the drawing screen link does not working properly.

Since data volume for double sides P.C.B. is heavy, it might be taking time for display and/or access.

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**Model No. : HDC-Z10000P/E/GC/GK Parts List Notice**

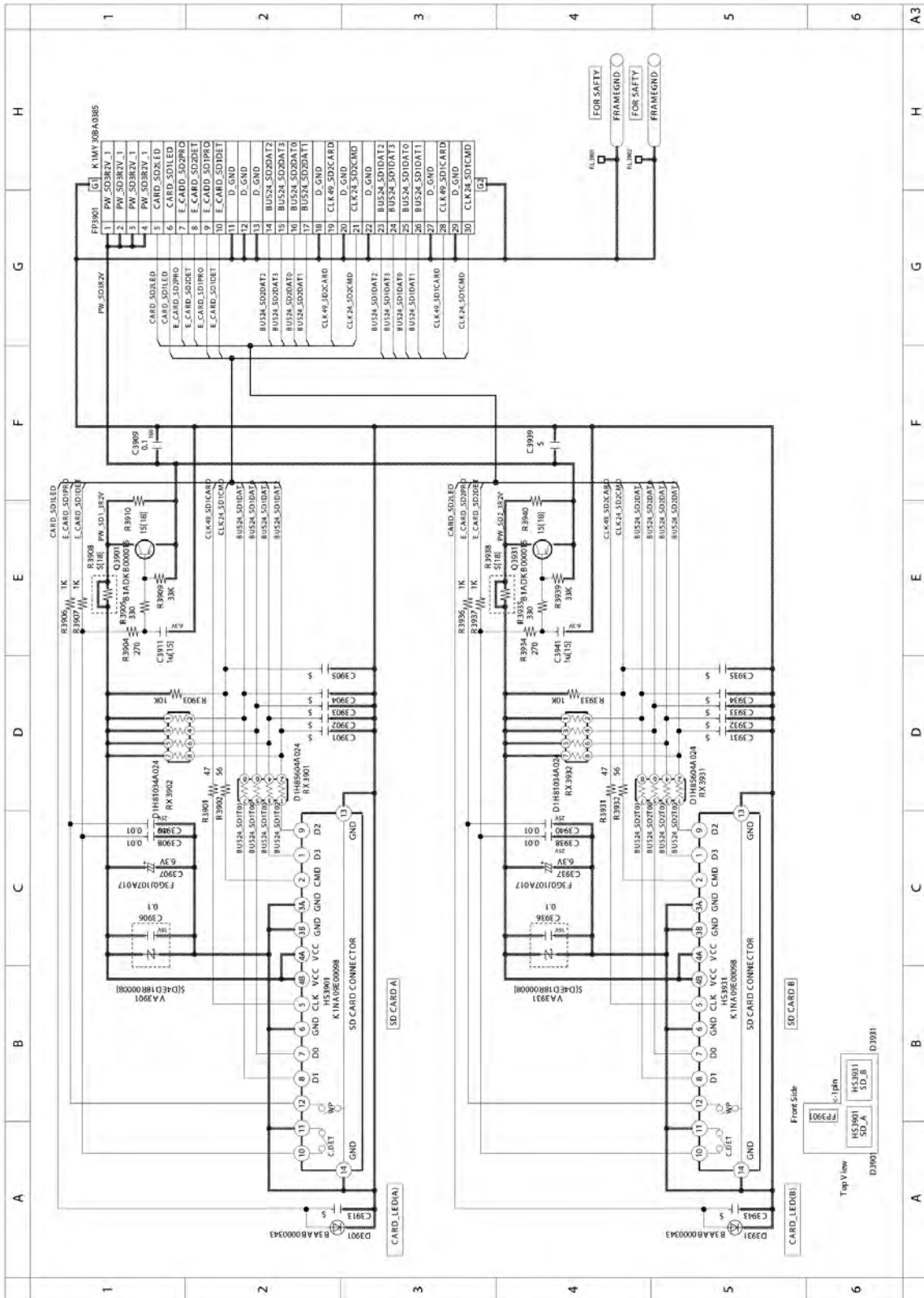
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- Note: 1.\* Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE  
Components identified with the mark  $\triangle$  have the special characteristics for safety.  
When replacing any of these components,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

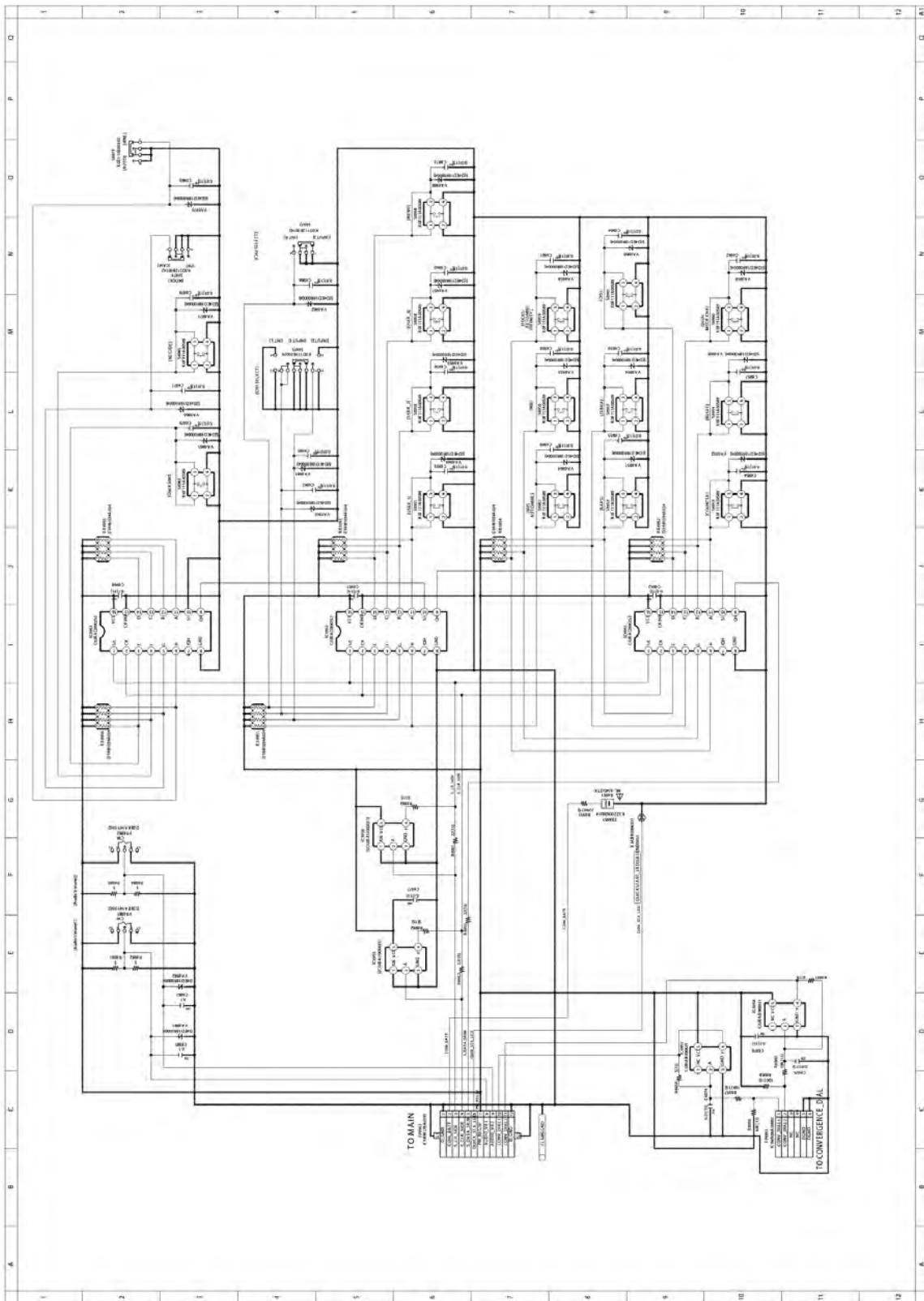
**E.S.D. standards for Electrostatically Sensitive Devices, refer to "PREVENTION OF ELECTROSTATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES) DEVICES" section.**



# Model No. : HDC-Z1000P/E/GC/GK SD Holder

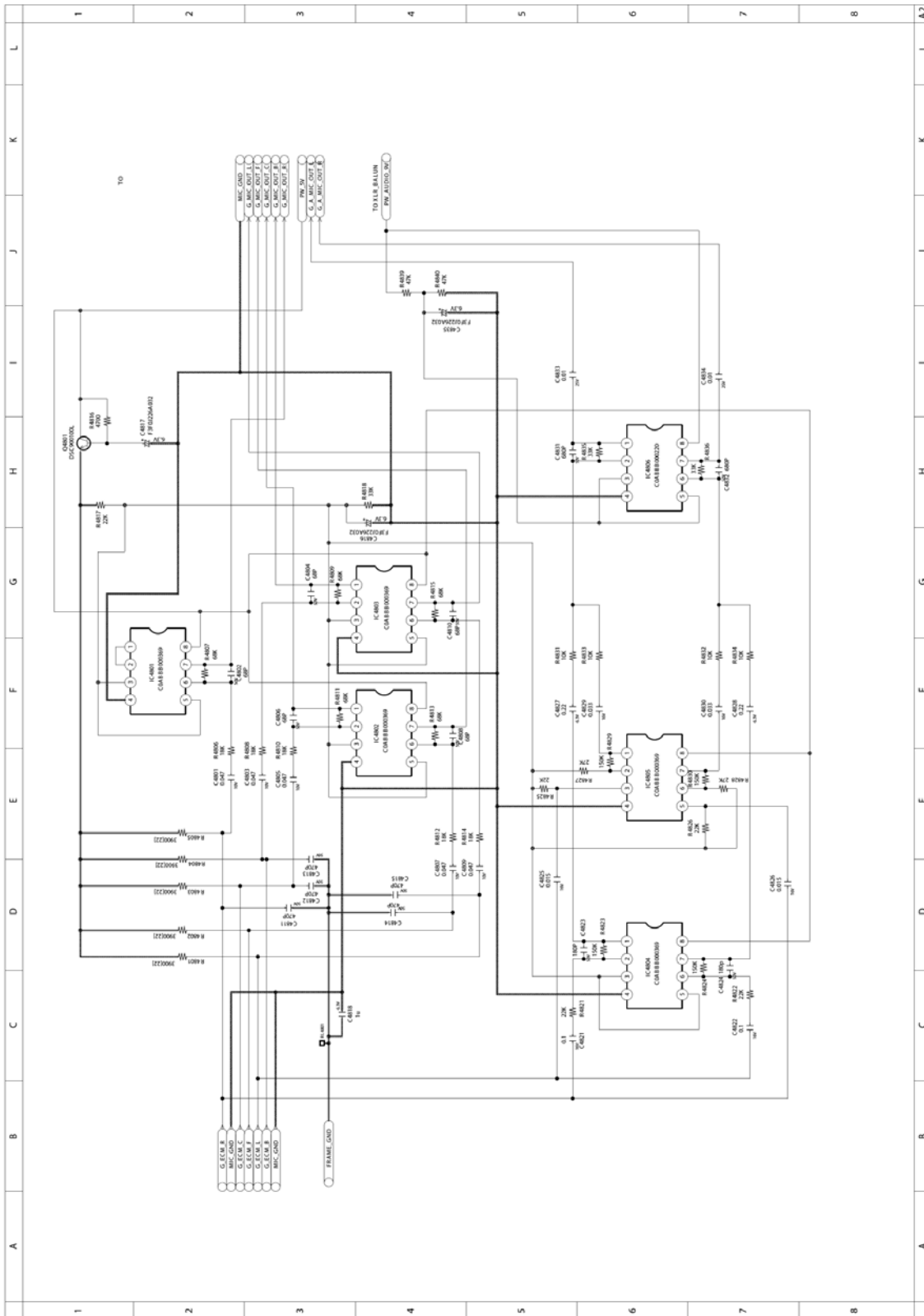


**Model No. : HDC-Z1000P/E/GC/GK Side R OP**

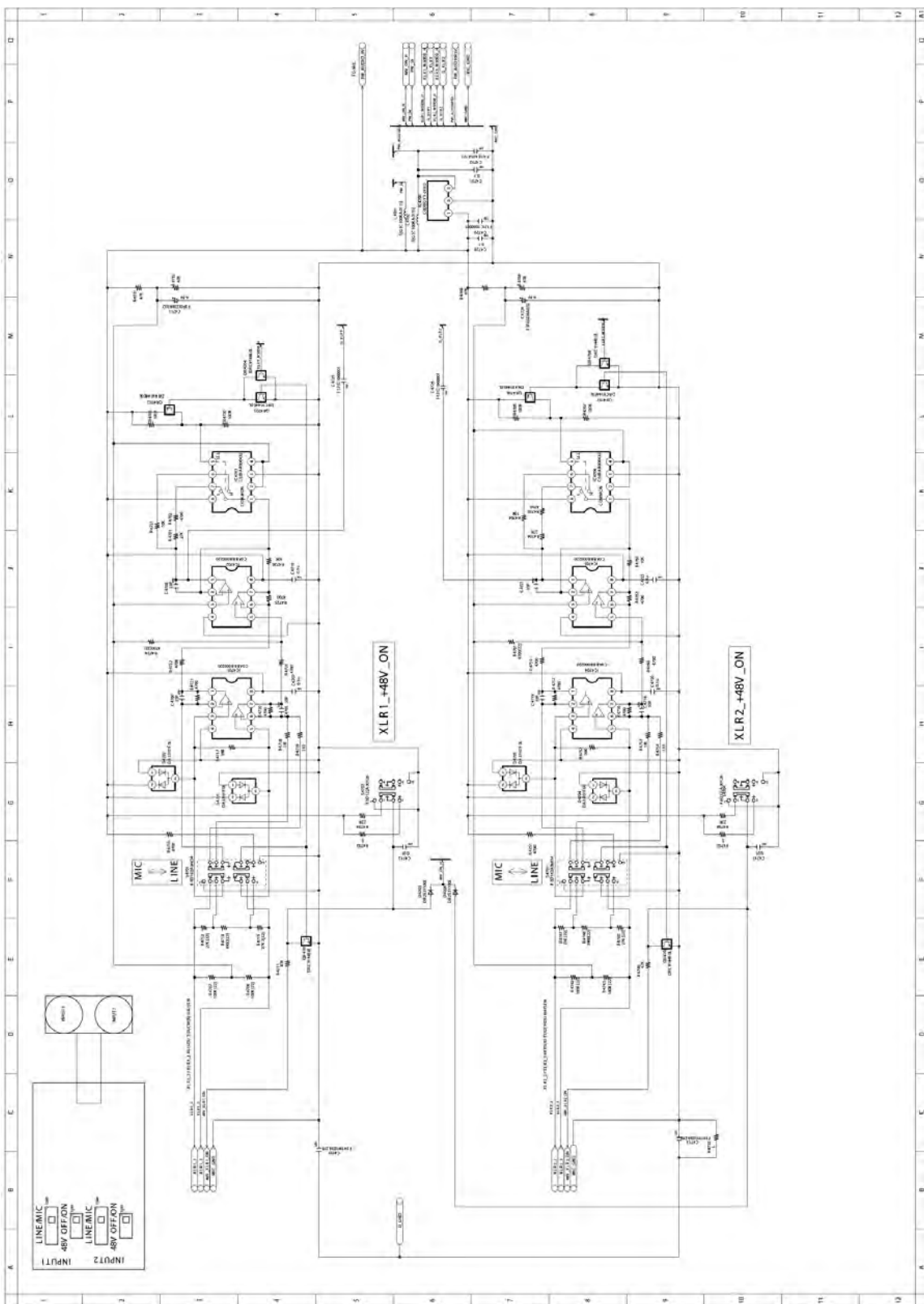




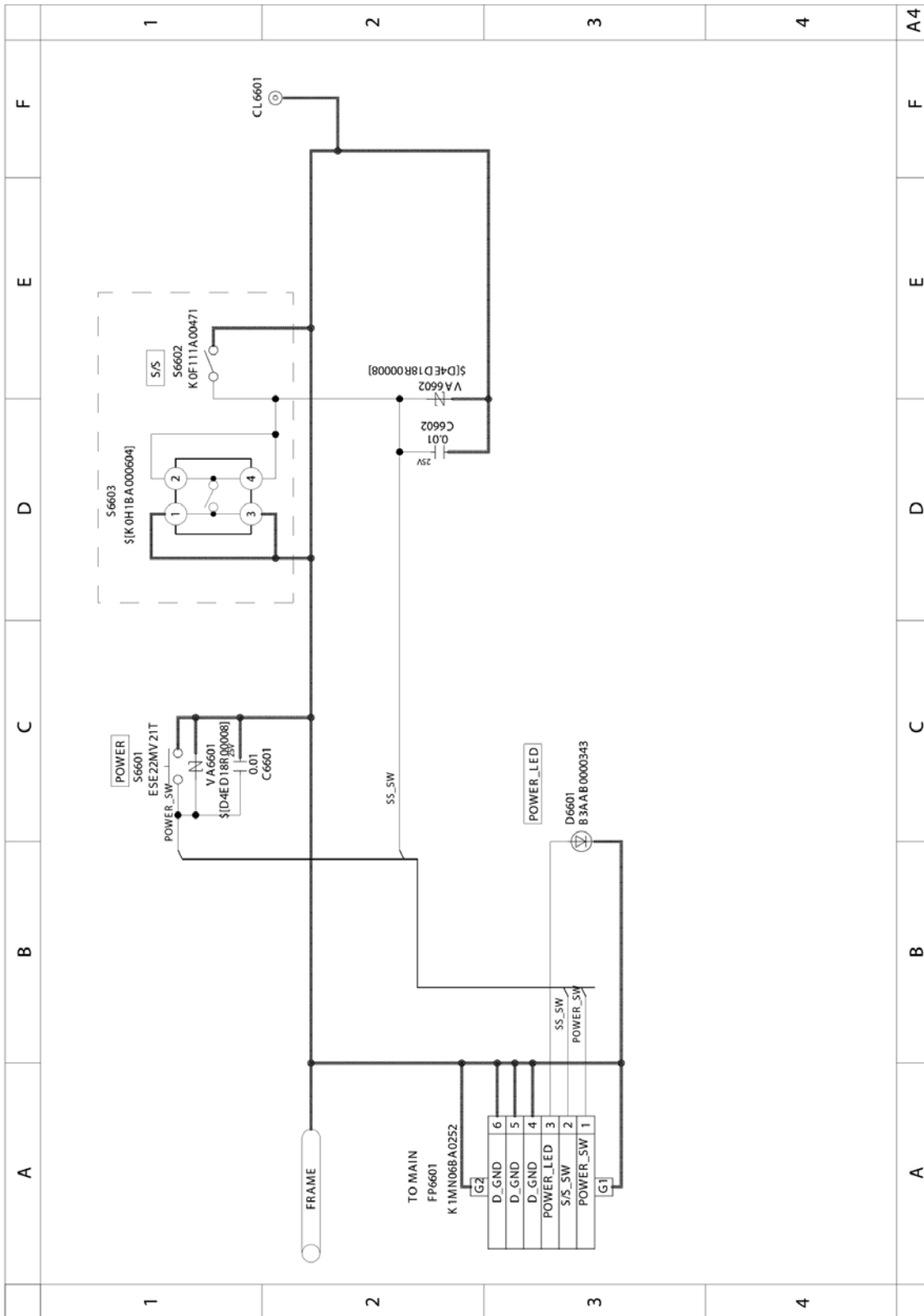
**Model No. : HDC-Z1000P/E/GC/GK MIC (Handle OP P.C.B.)**



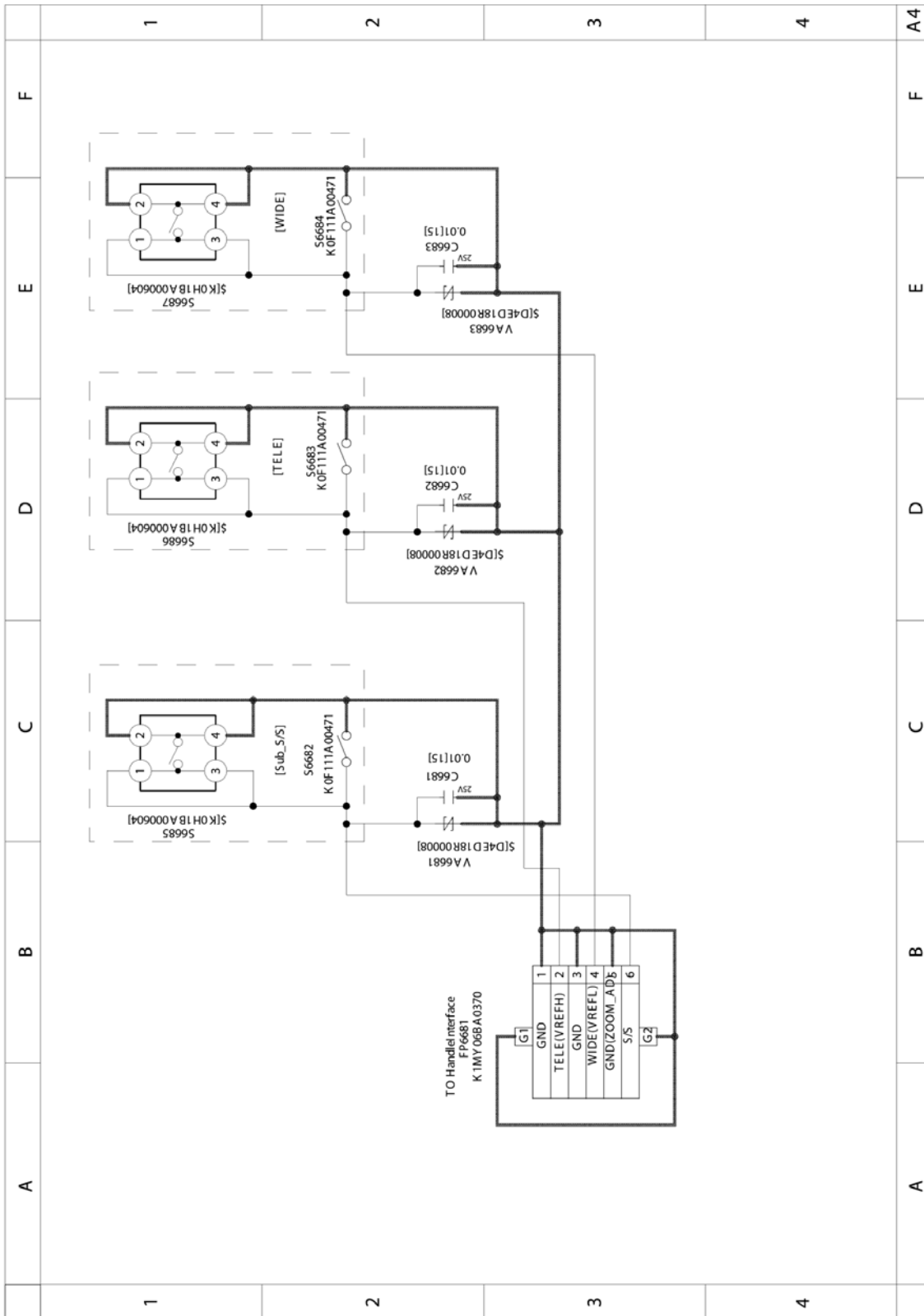
**Model No. : HDC-Z1000P/E/GC/GK XLR AMP (Handle OP P.C.B.)**



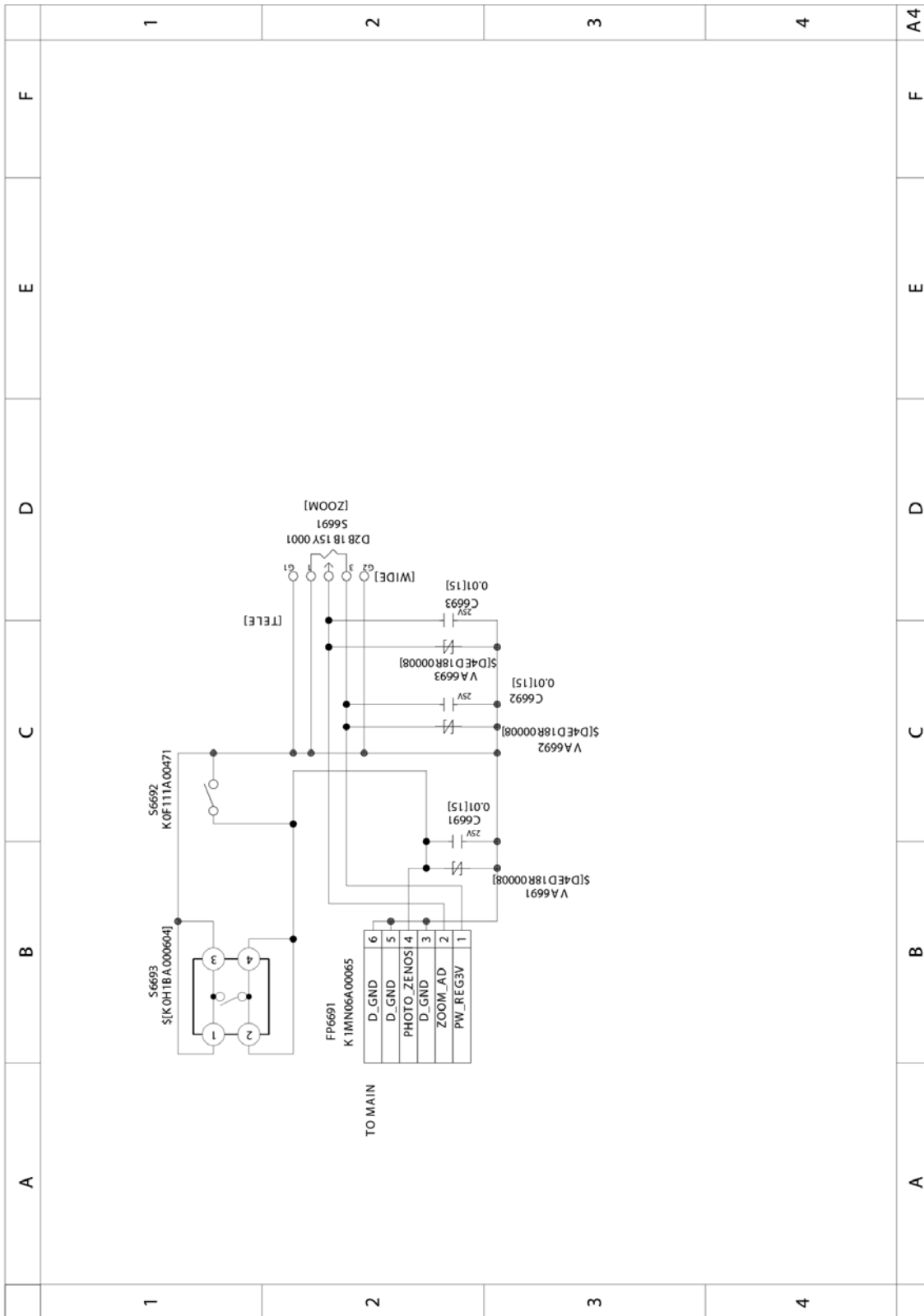
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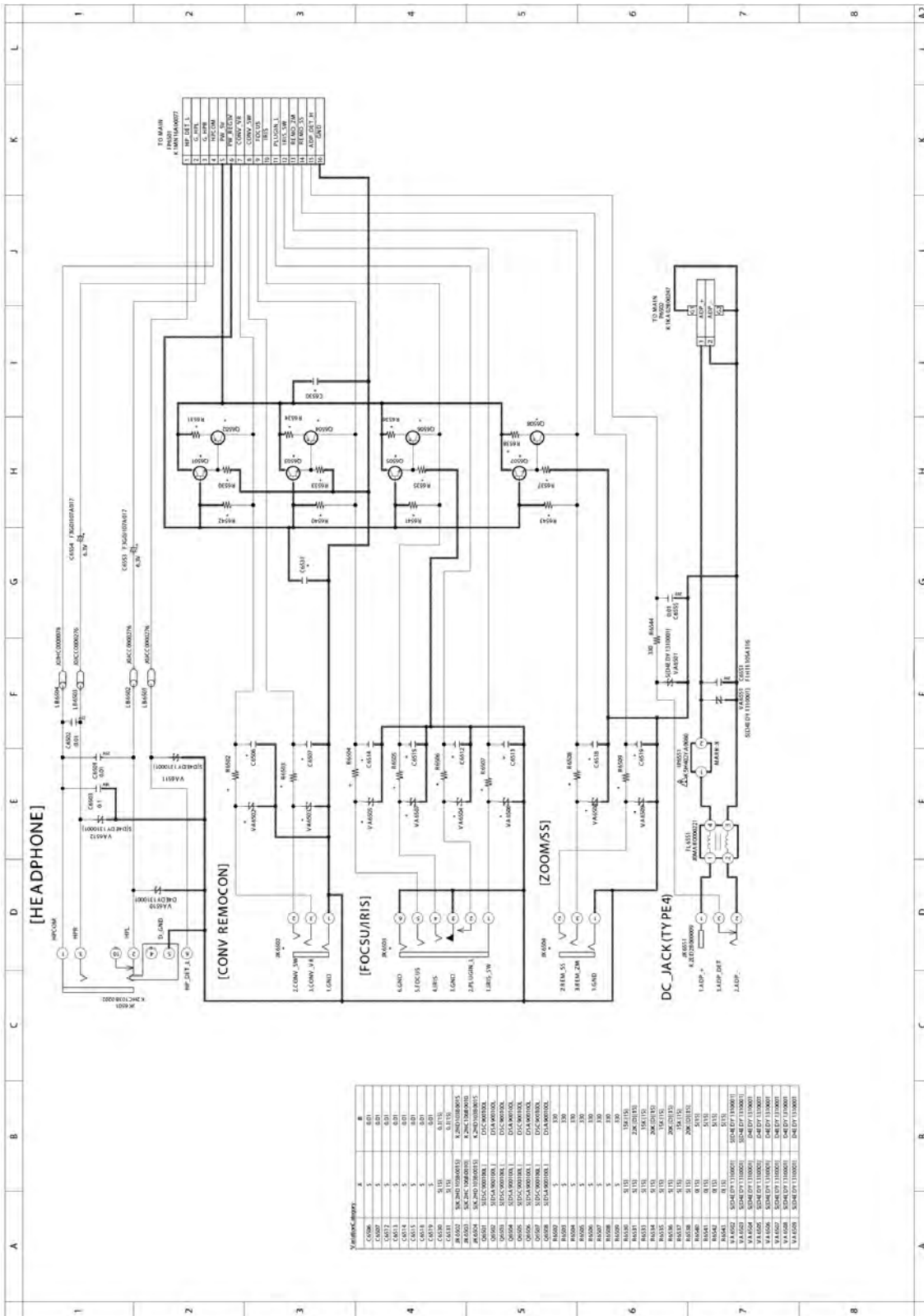
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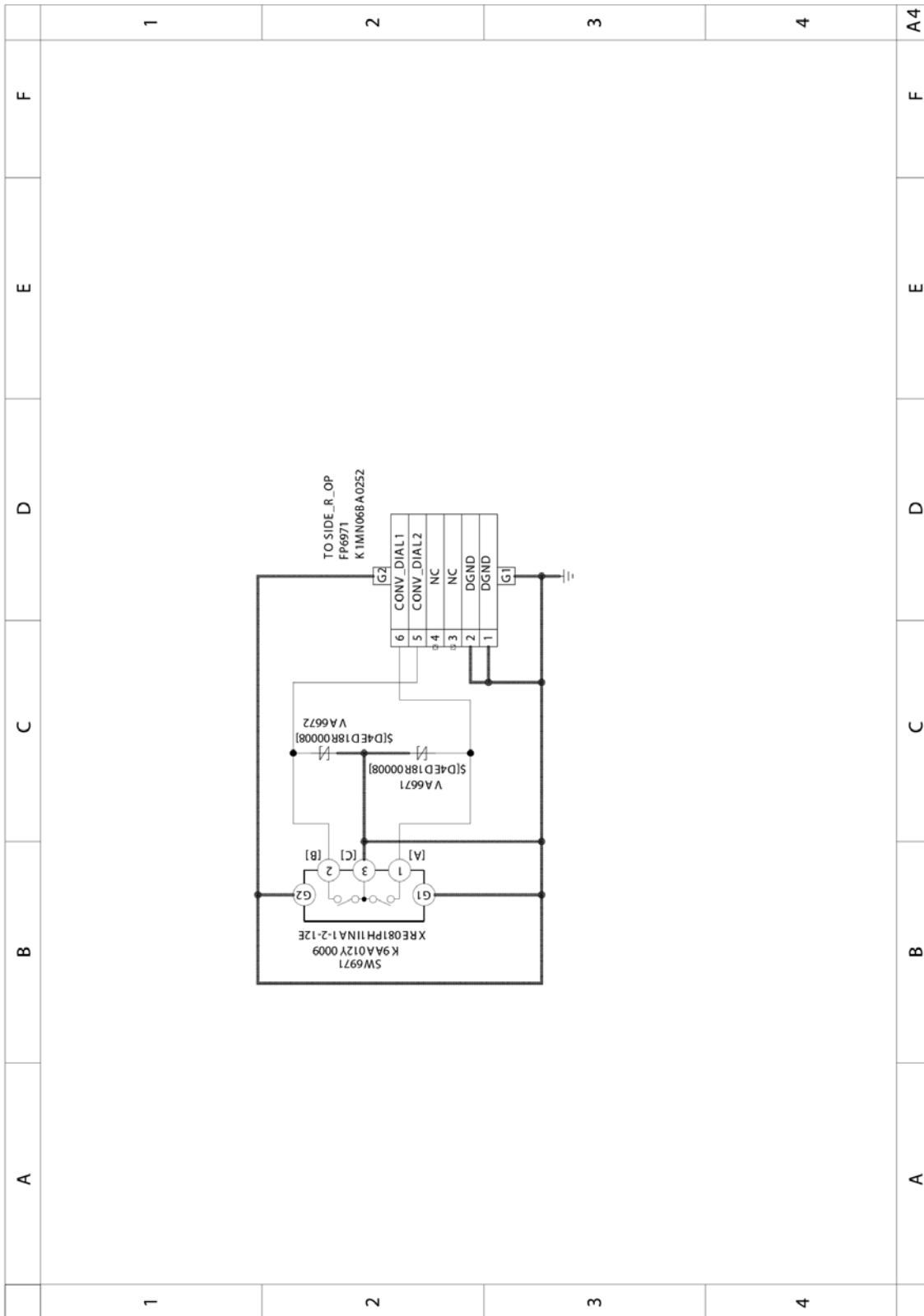
**Model No. : HDC-Z10000P/E/GC/GK Zoom Photo**



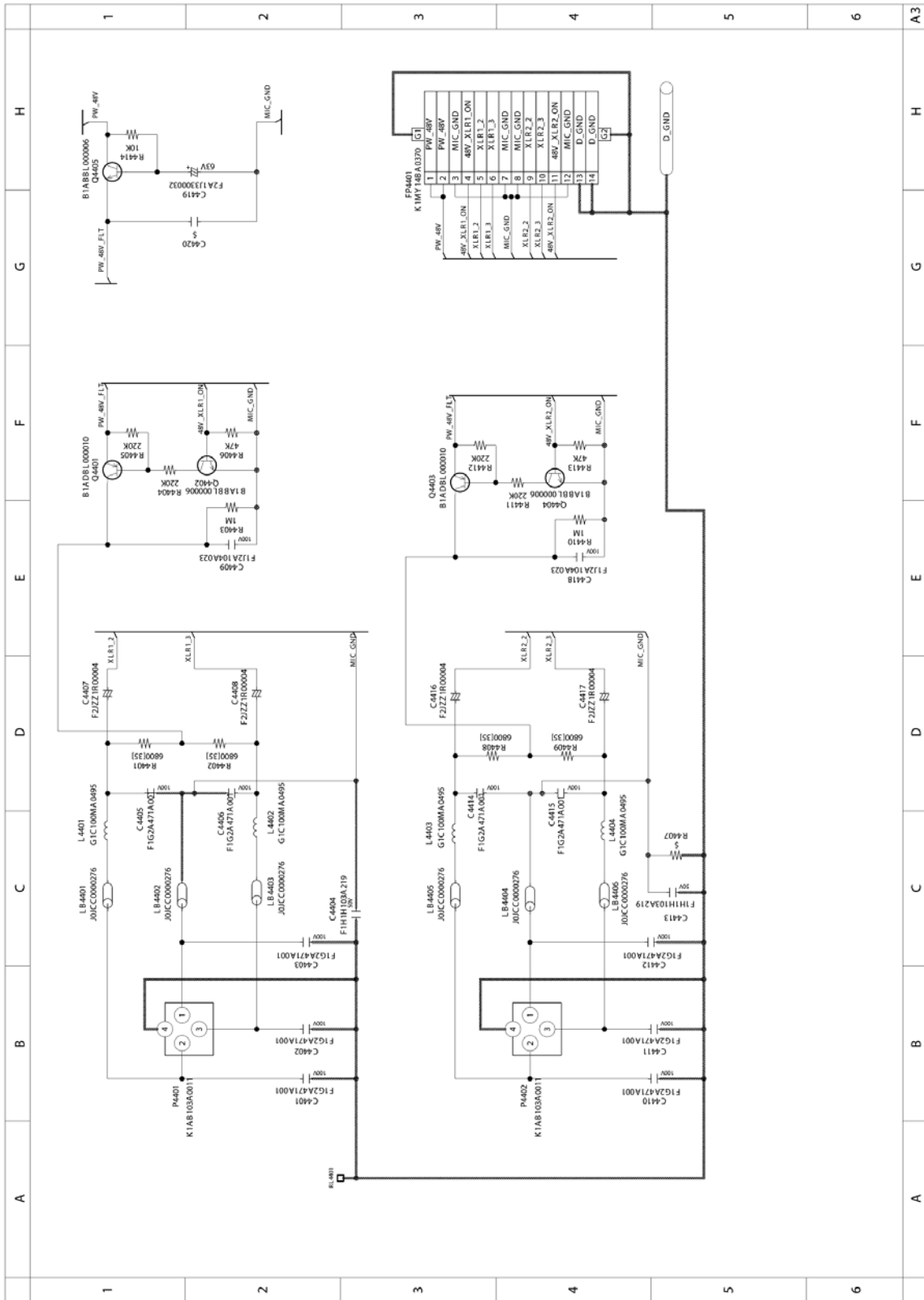
# Model No. : HDC-Z1000P/E/GC/GK Wired Remote



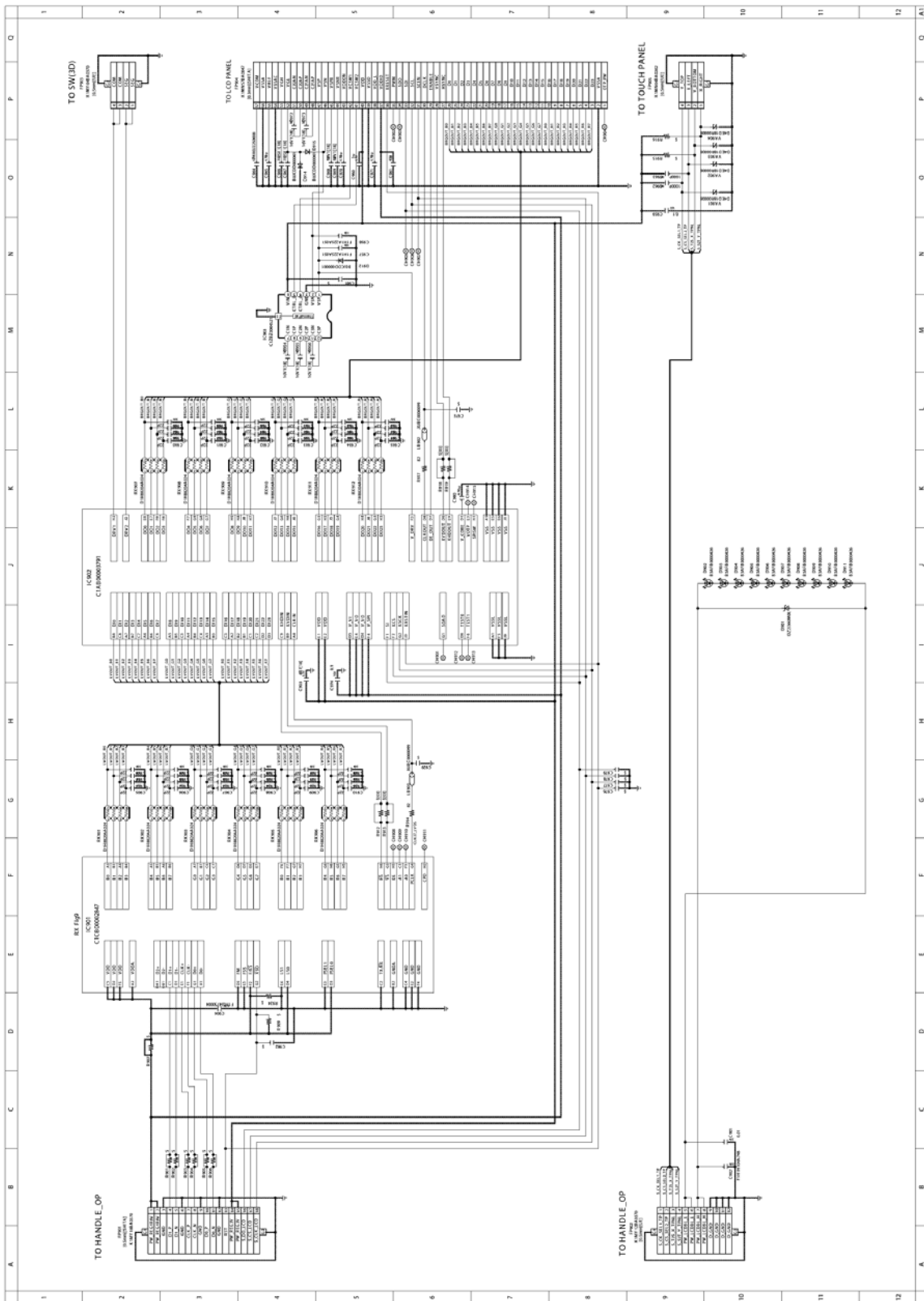
**Model No. : HDC-Z1000P/E/GC/GK Dial**



**Model No. : HDC-Z1000P/E/GC/GK XLR**

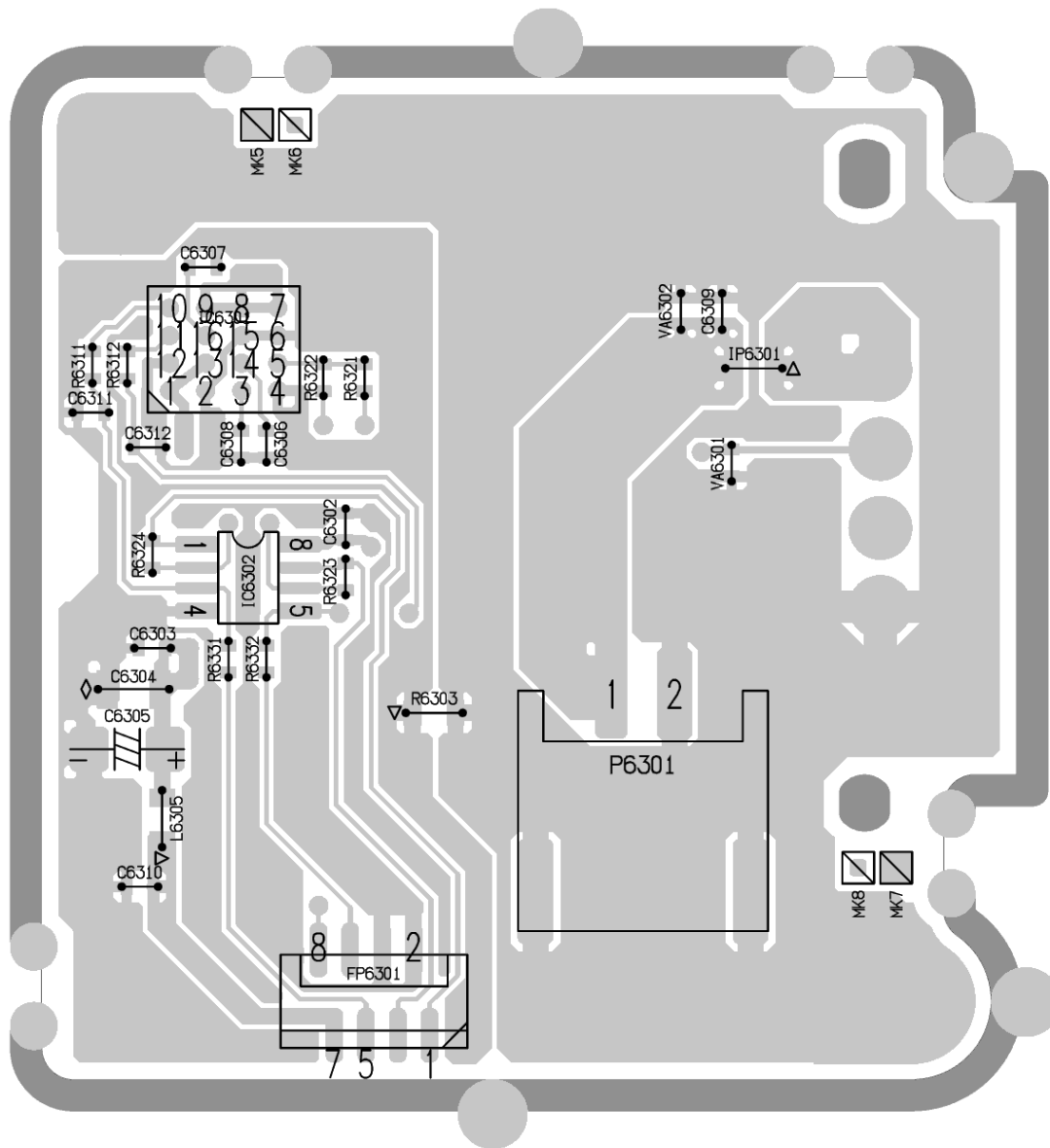


# Model No. : HDC-Z1000P/E/GC/GK Monitor





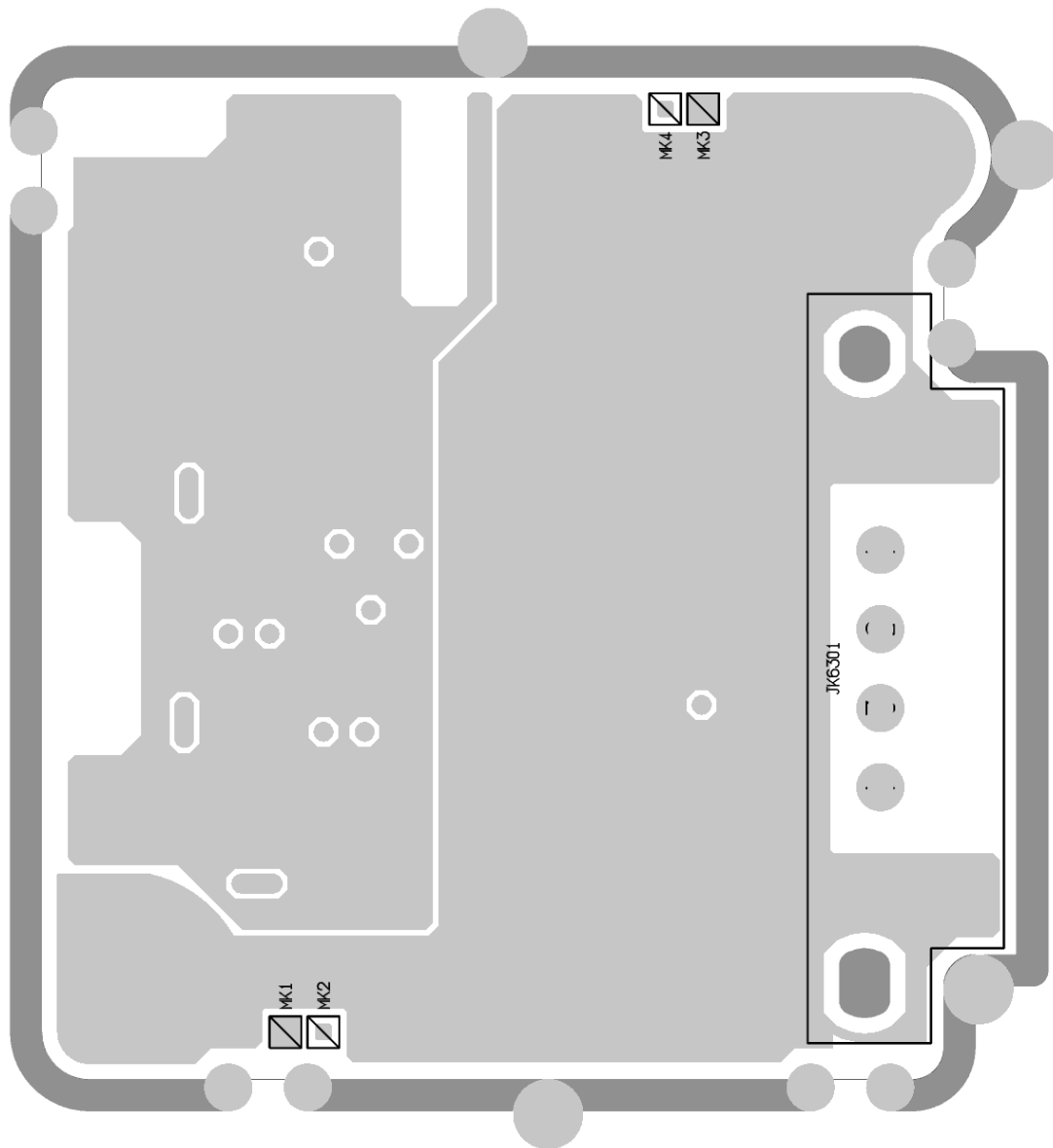
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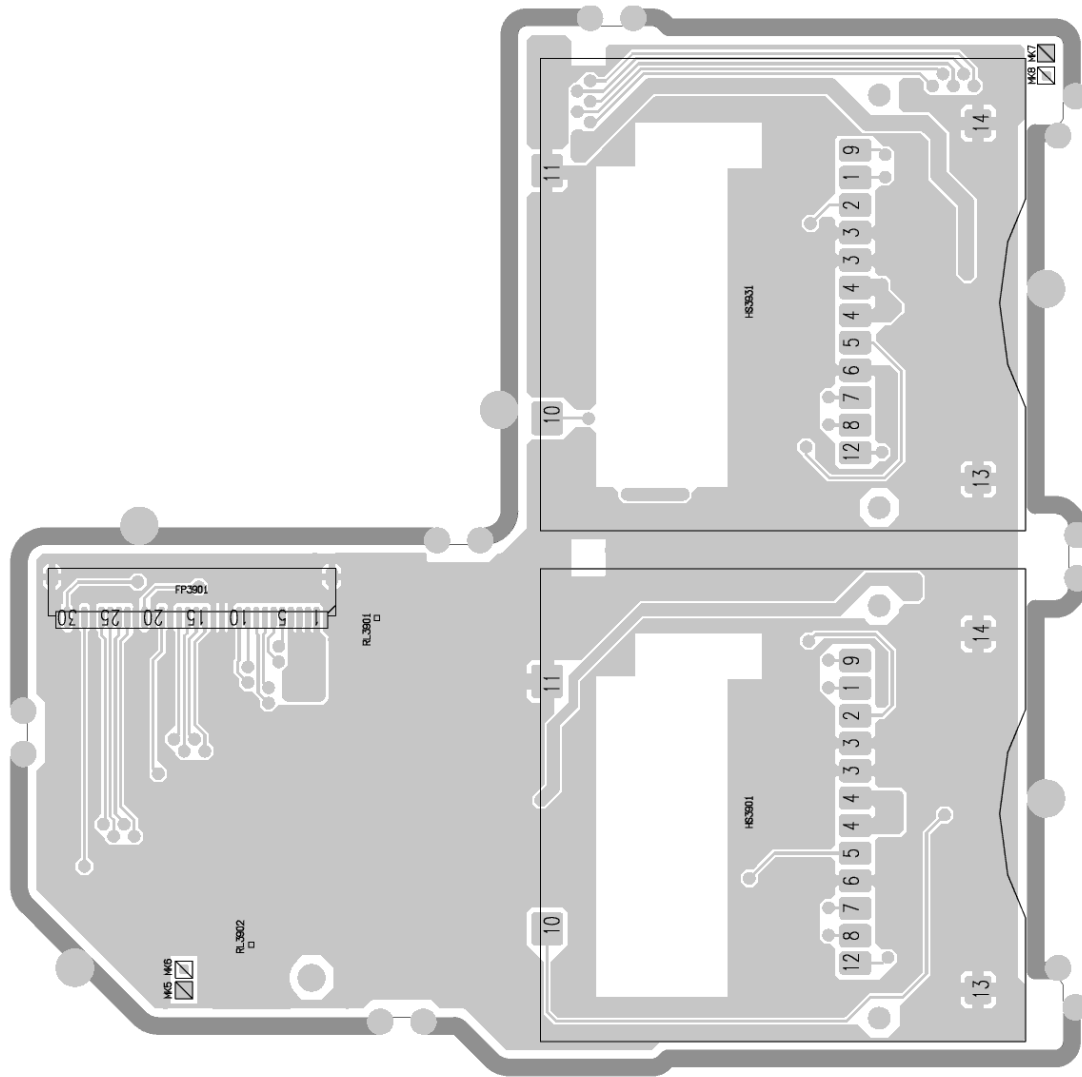
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**Model No. : HDC-Z10000P/E/GC/GK Battery Catcher P.C.B.(Foil Side)**

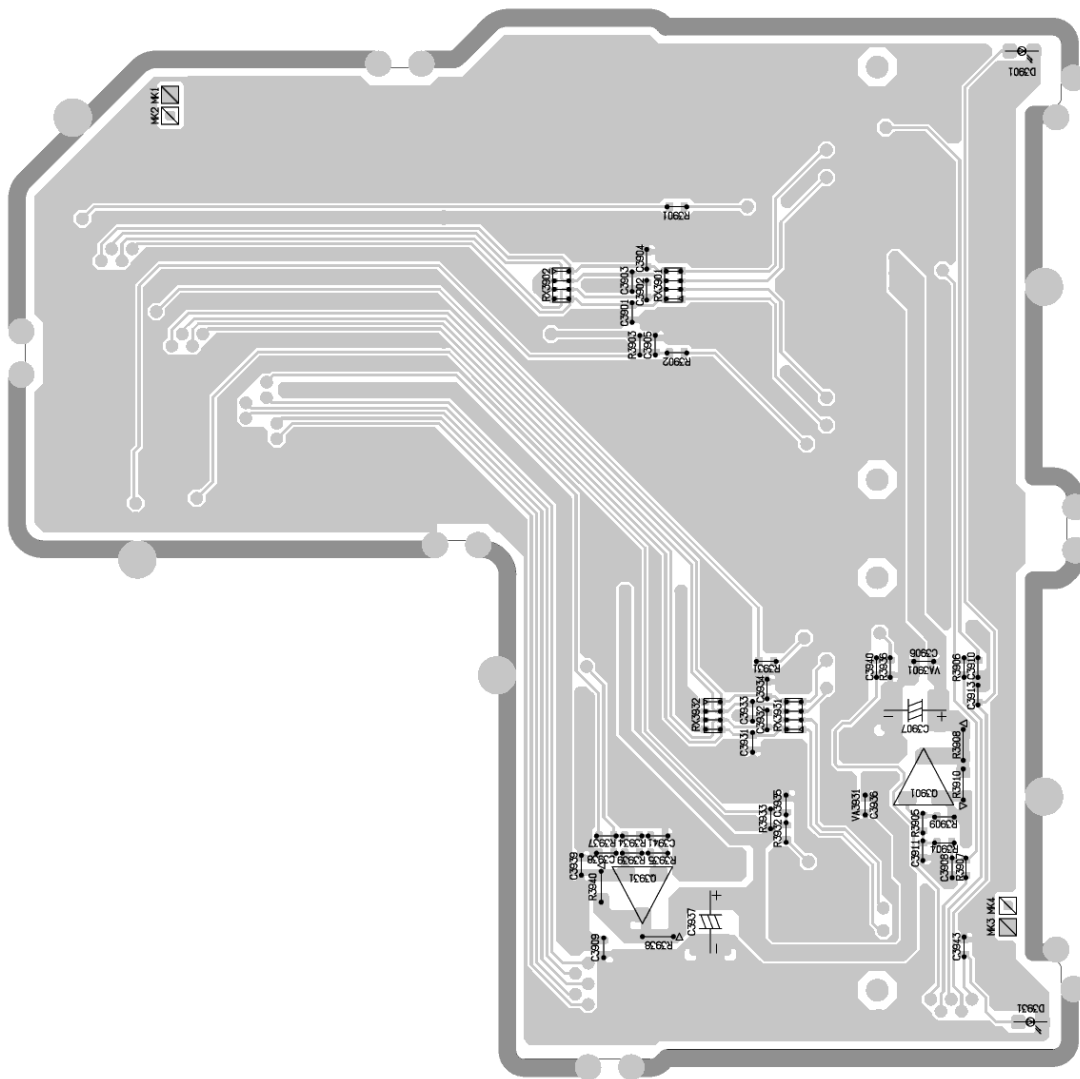
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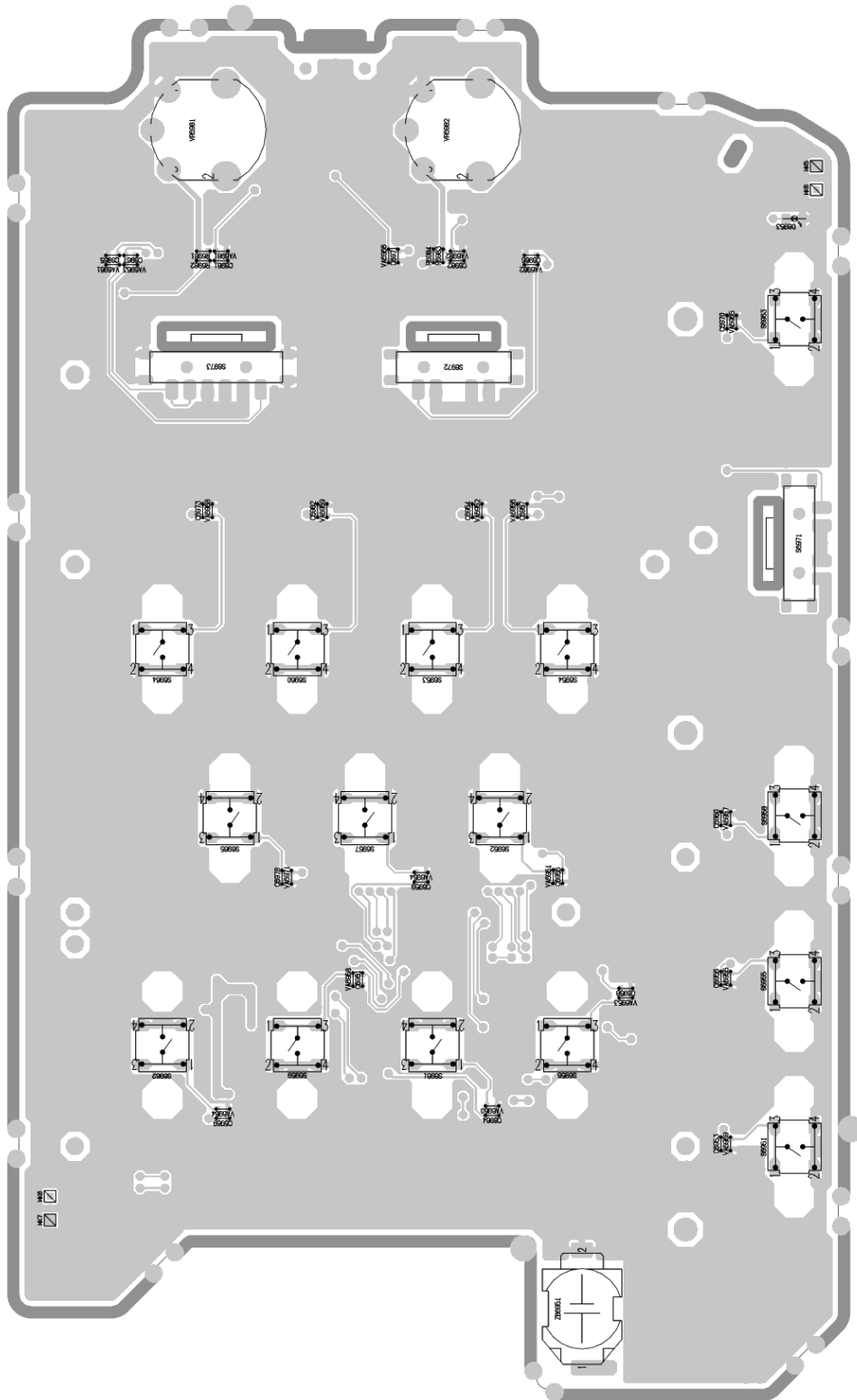
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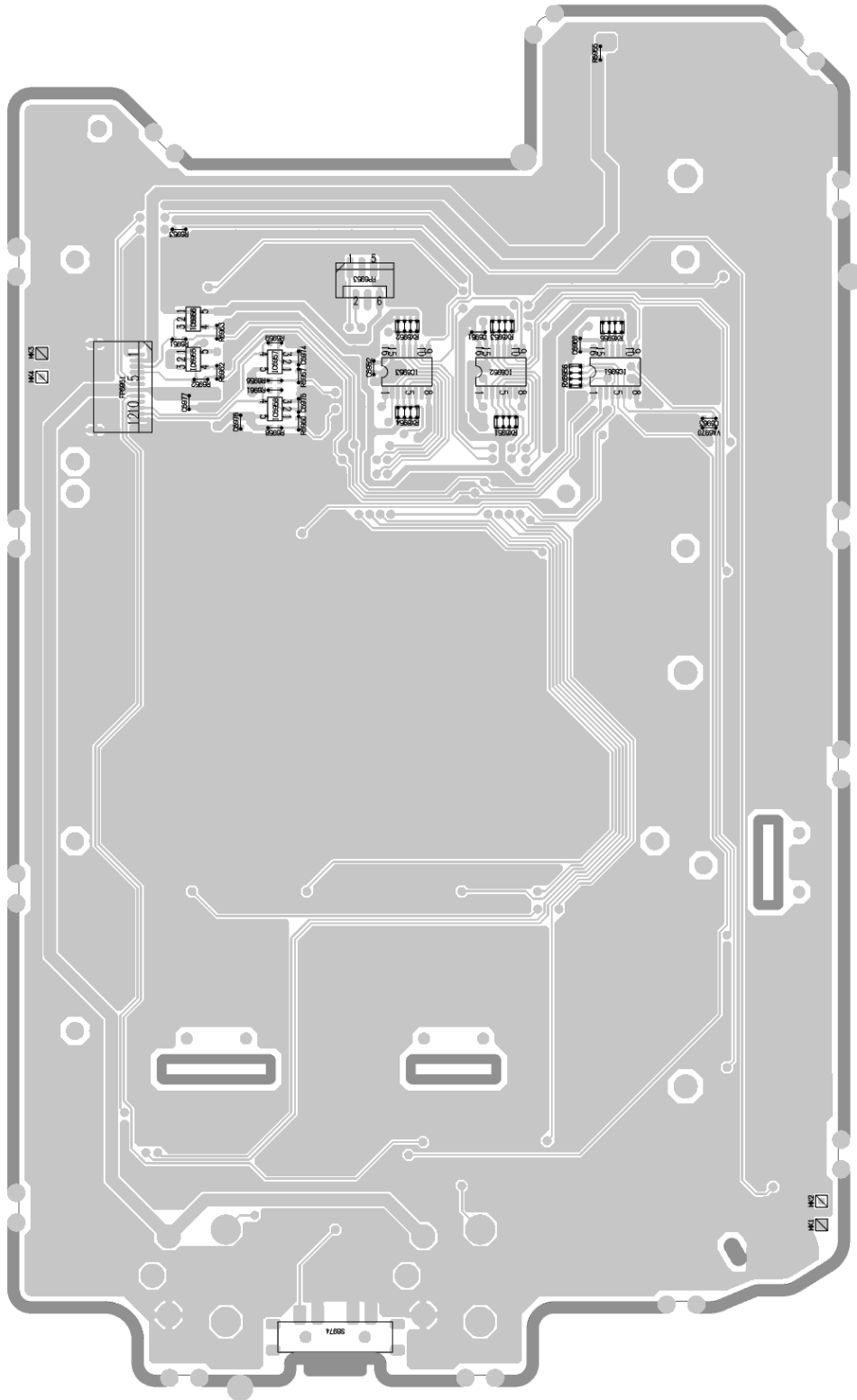
**Model No. : HDC-Z10000P/E/GC/GK SD Holder P.C.B.(Foil Side)**



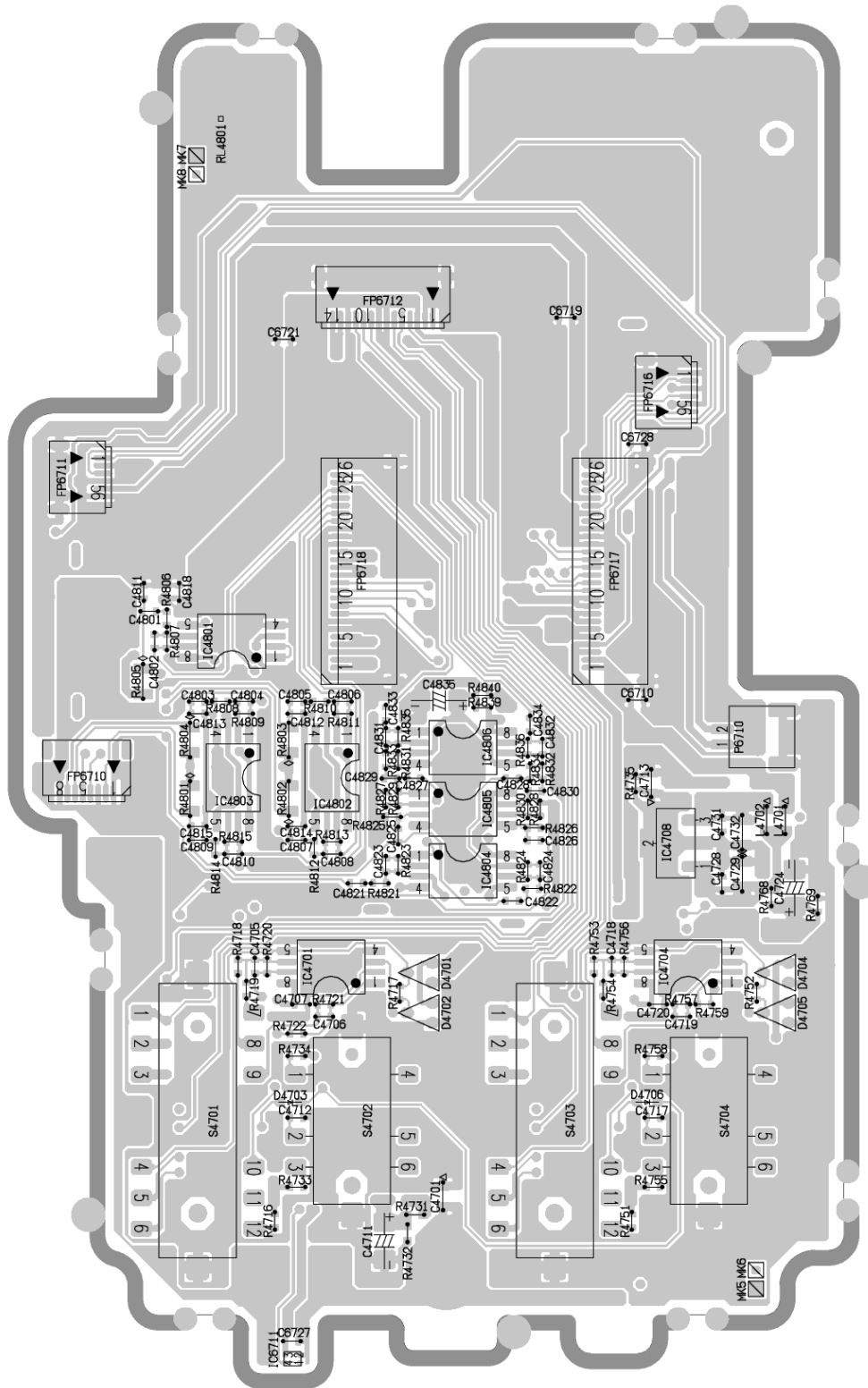
**Model No. : HDC-Z1000P/E/GC/GK Side R OP P.C.B.(Component Side)**



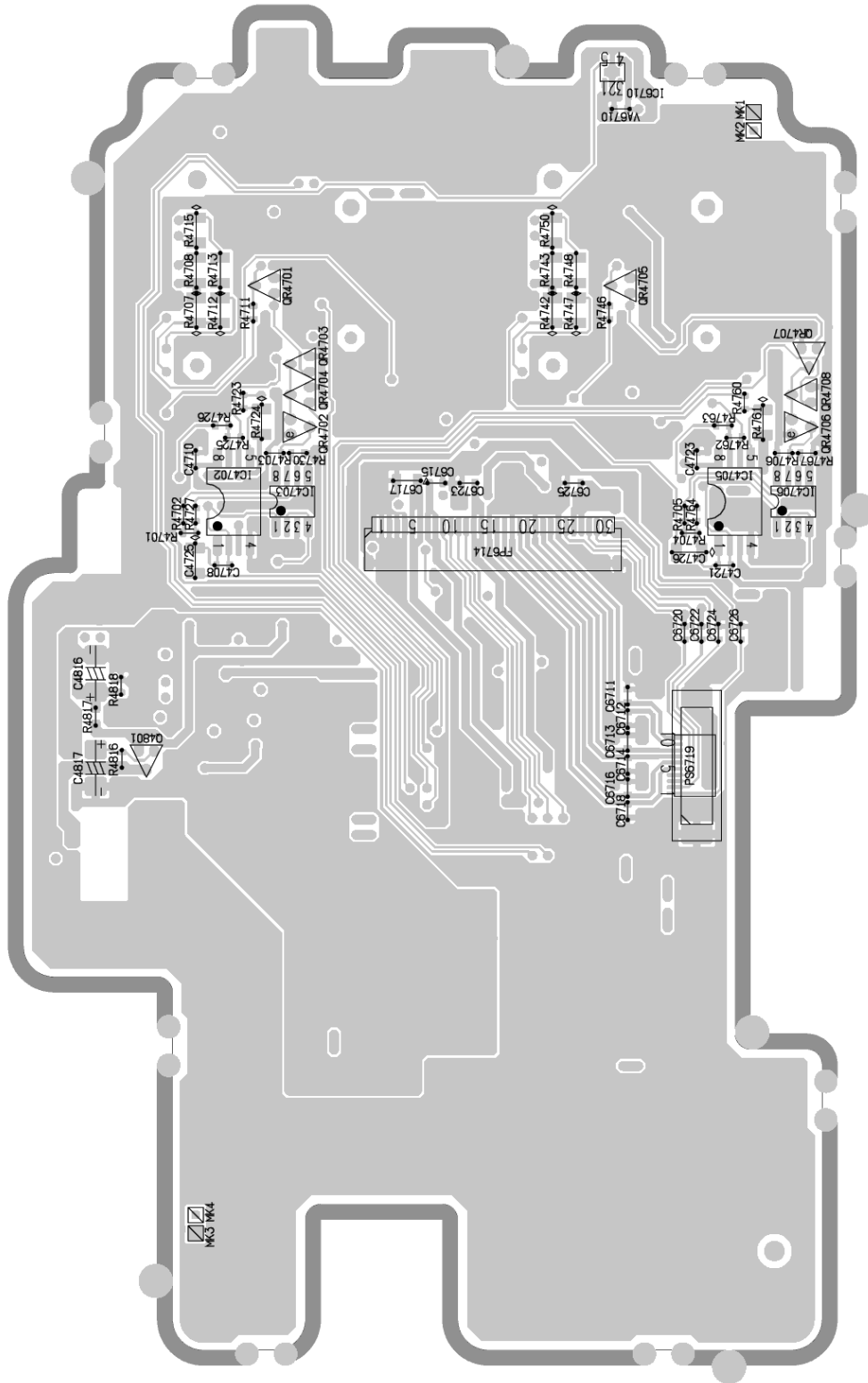
**Model No. : HDC-Z10000P/E/GC/GK Side R OP P.C.B.(Foil Side)**



Model No. : HDC-Z1000P/E/GC/GK Handle OP P.C.B.(Component Side)



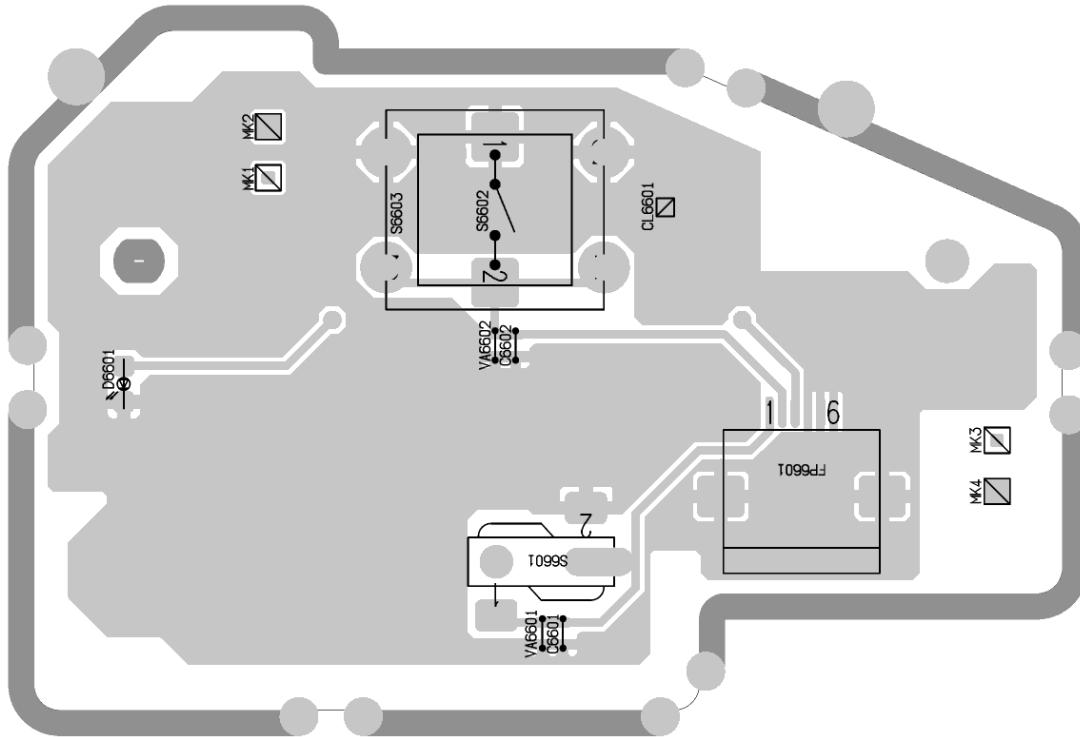
Model No. : HDC-Z1000P/E/GC/GK Handle OP P.C.B.(Foil Side)



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**Model No. : HDC-Z10000P/E/GC/GK Power SS P.C.B.(Component Side)**

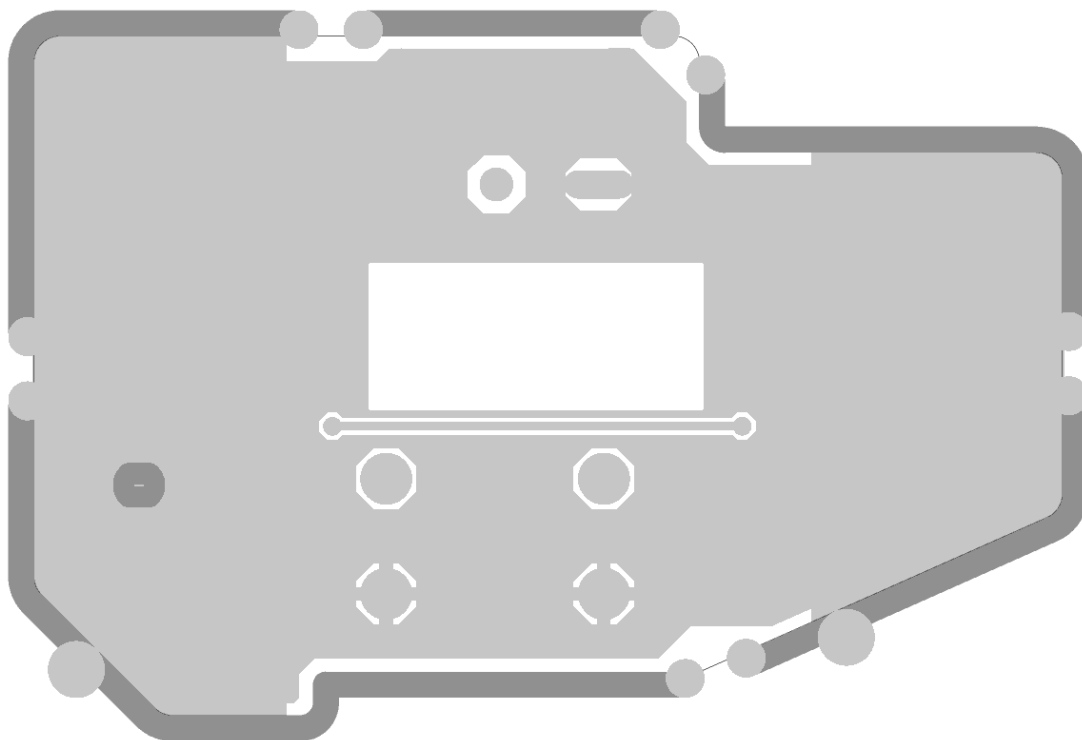
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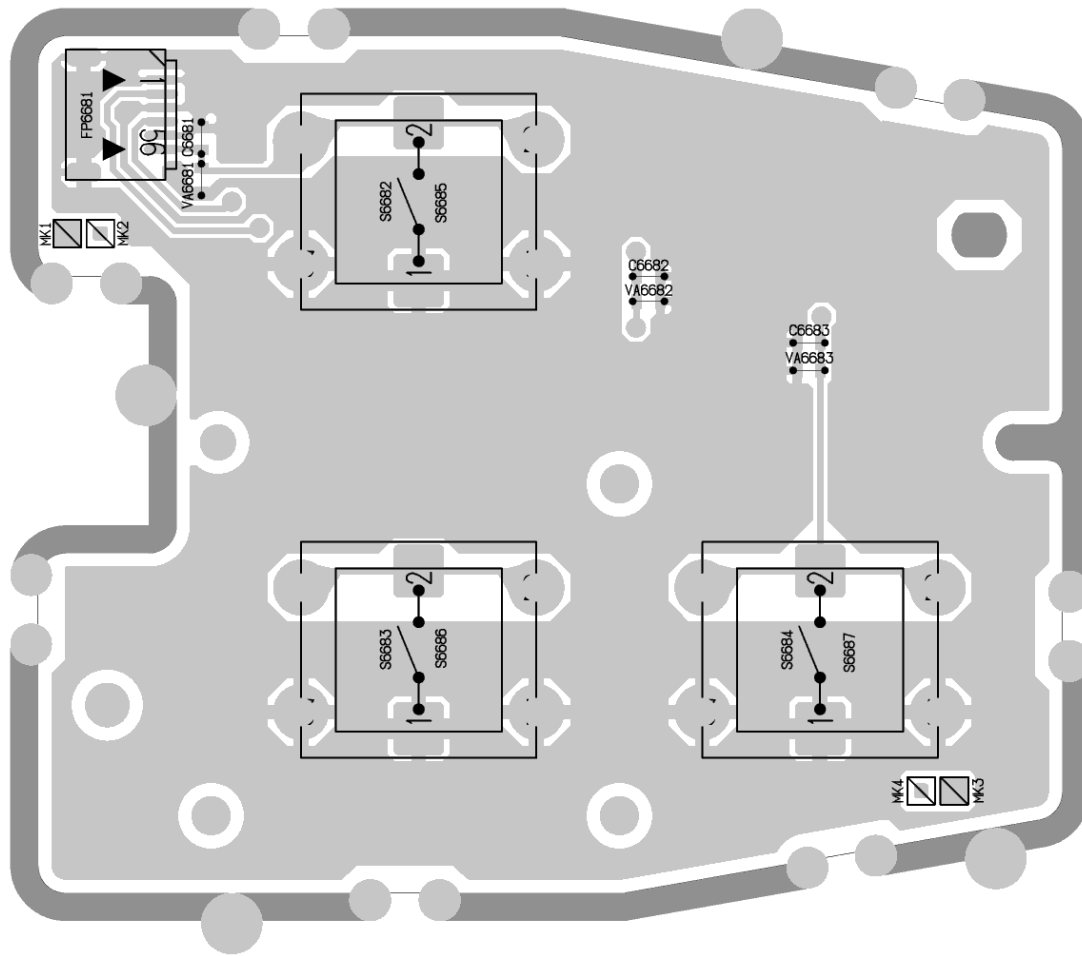
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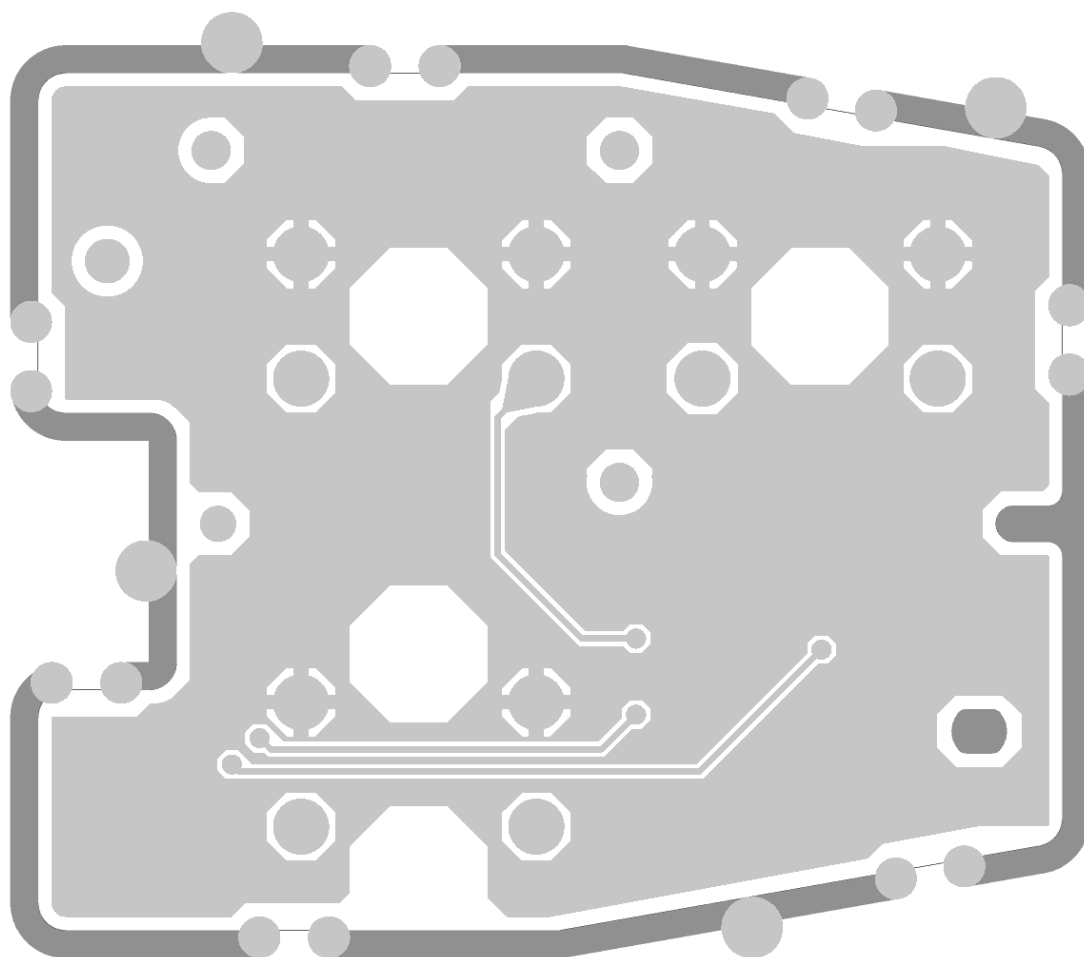
**Model No. : HDC-Z1000P/E/GC/GK Power SS P.C.B.(Foil Side)**

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Model No. : HDC-Z1000P/E/GC/GK Sub SS P.C.B.(Component Side)

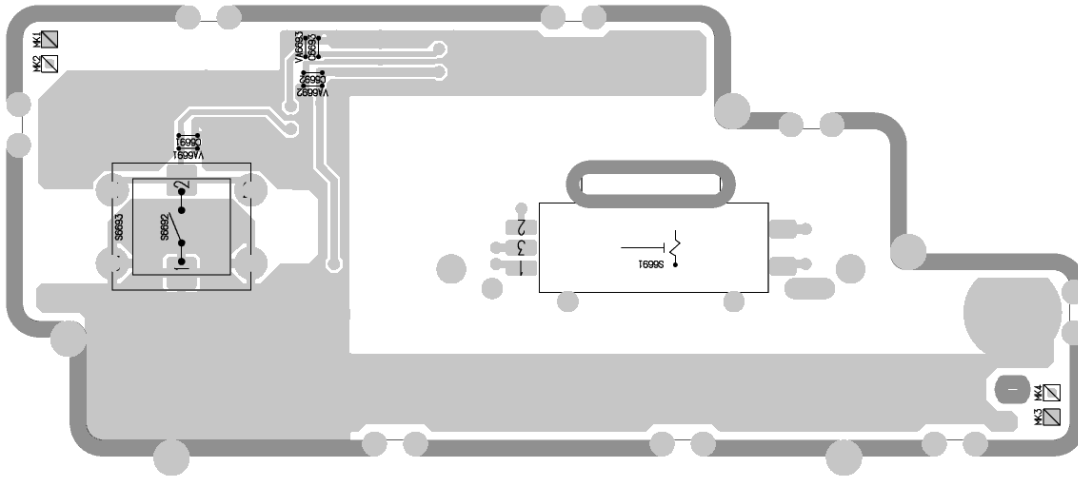




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**Model No. : HDC-Z1000P/E/GC/GK Zoom Photo P.C.B.(Component Side)**

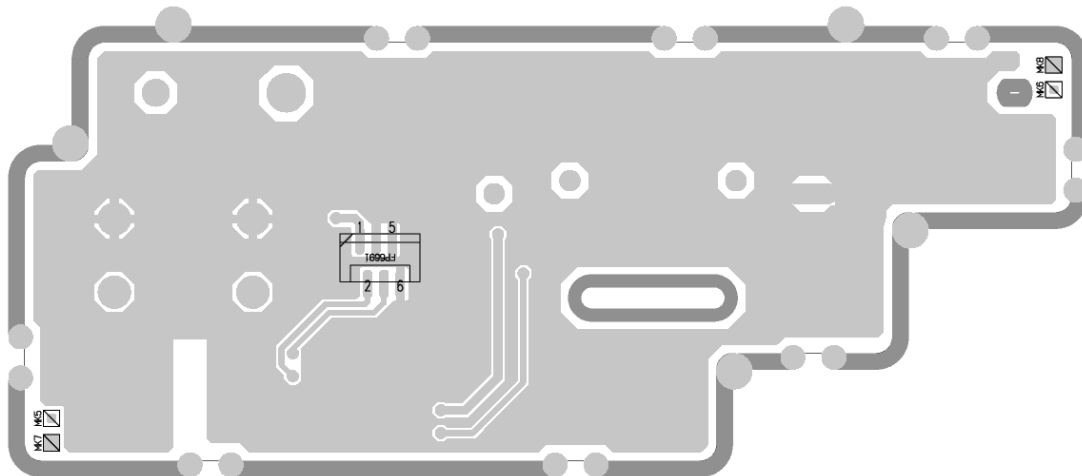
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**Model No. : HDC-Z1000P/E/GC/GK Zoom Photo P.C.B.(Foil Side)**

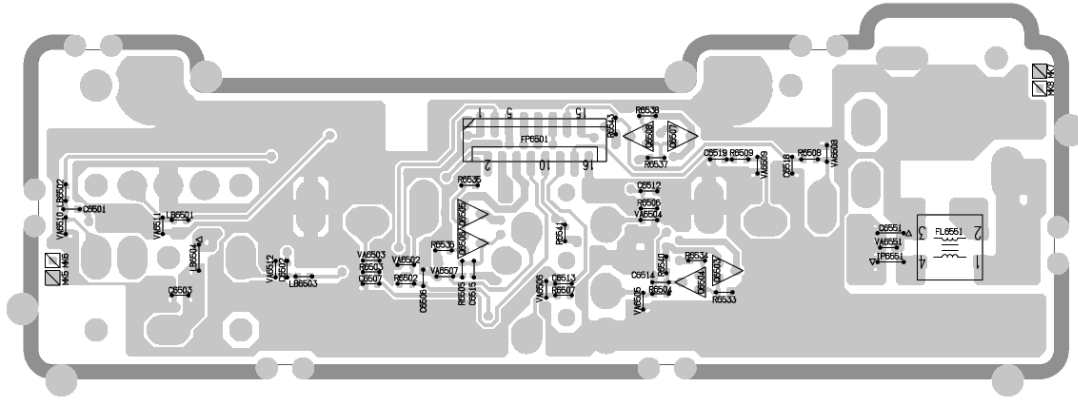
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**Model No. : HDC-Z10000P/E/GC/GK Wired Remote P.C.B.(Component Side)**

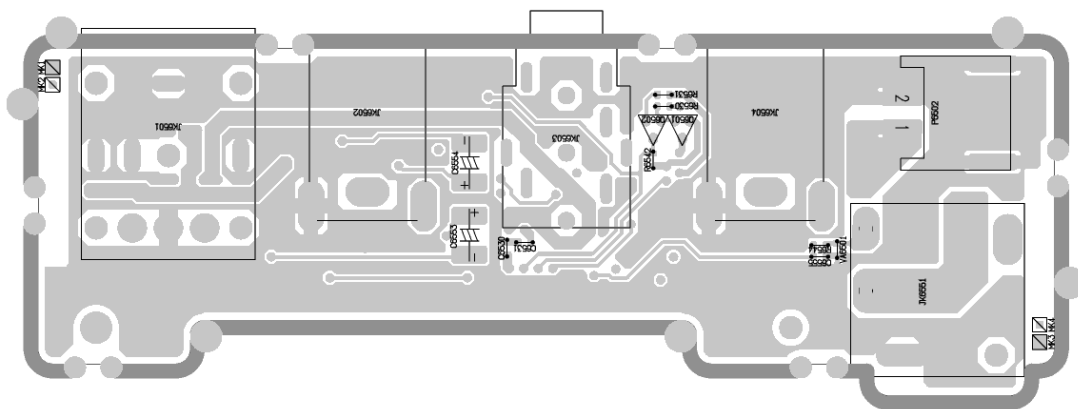
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**Model No. : HDC-Z1000P/E/GC/GK Wired Remote P.C.B.(Foil Side)**

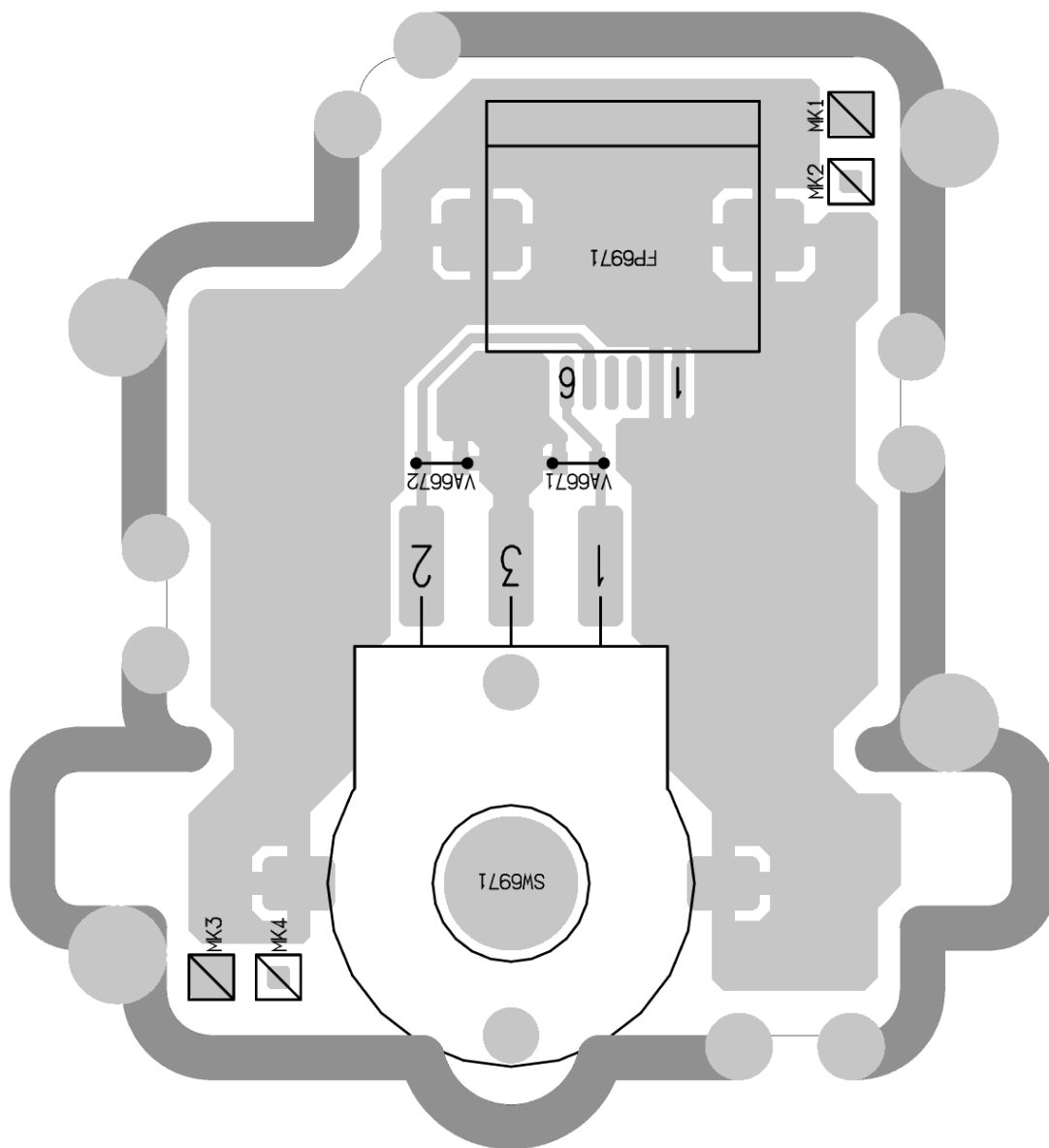
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**Model No. : HDC-Z1000P/E/GC/GK Dial P.C.B.(Component Side)**

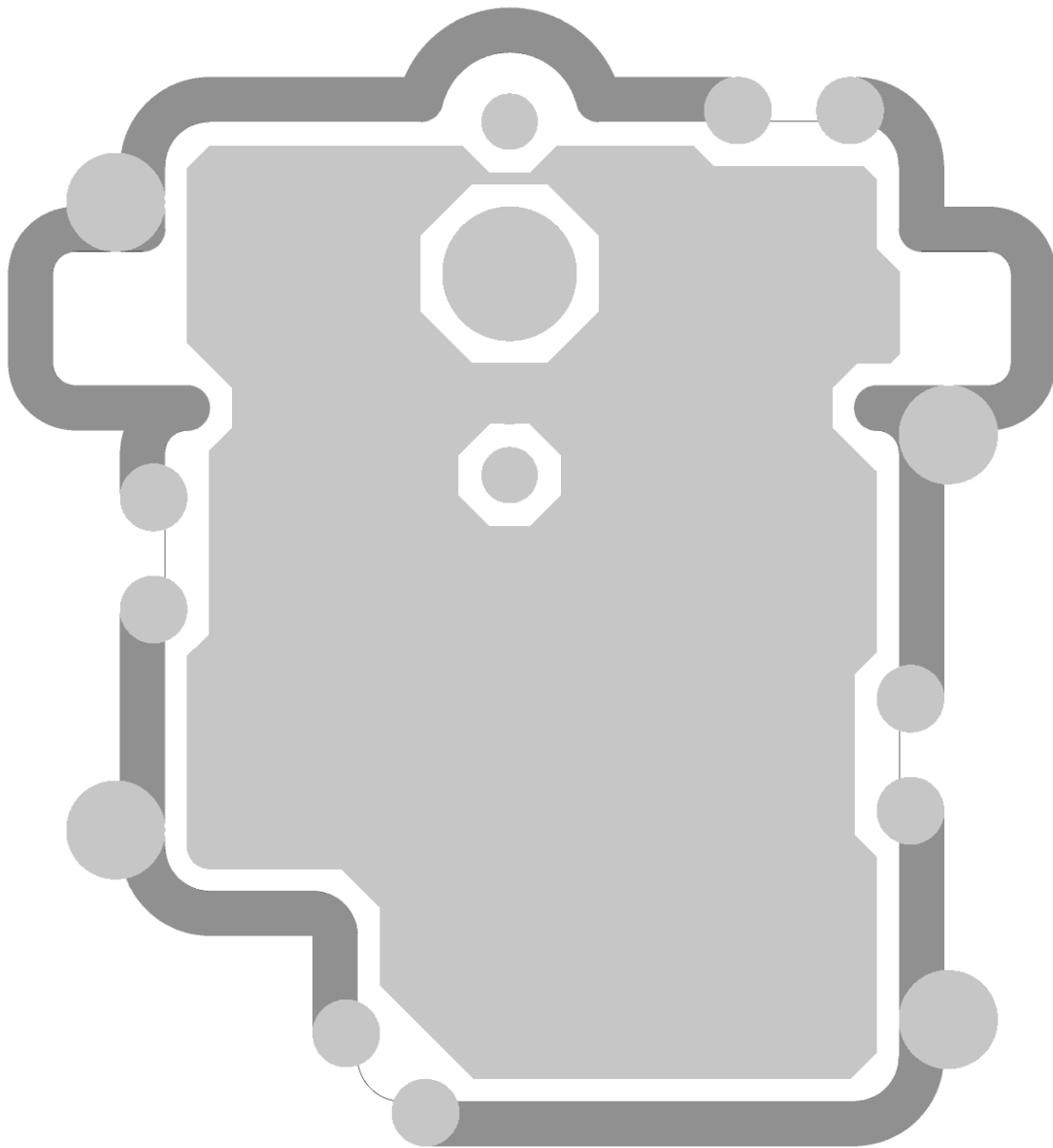
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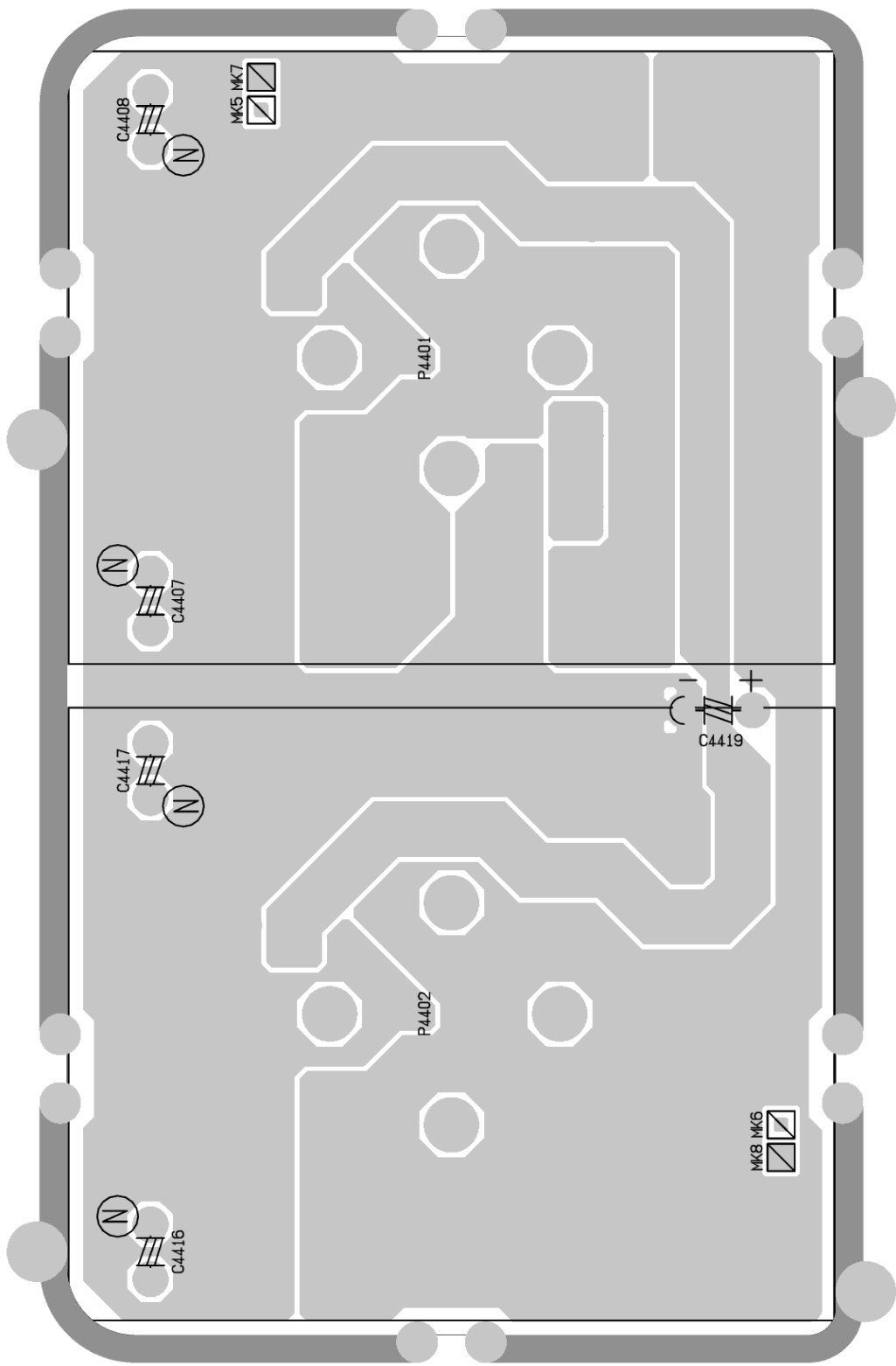


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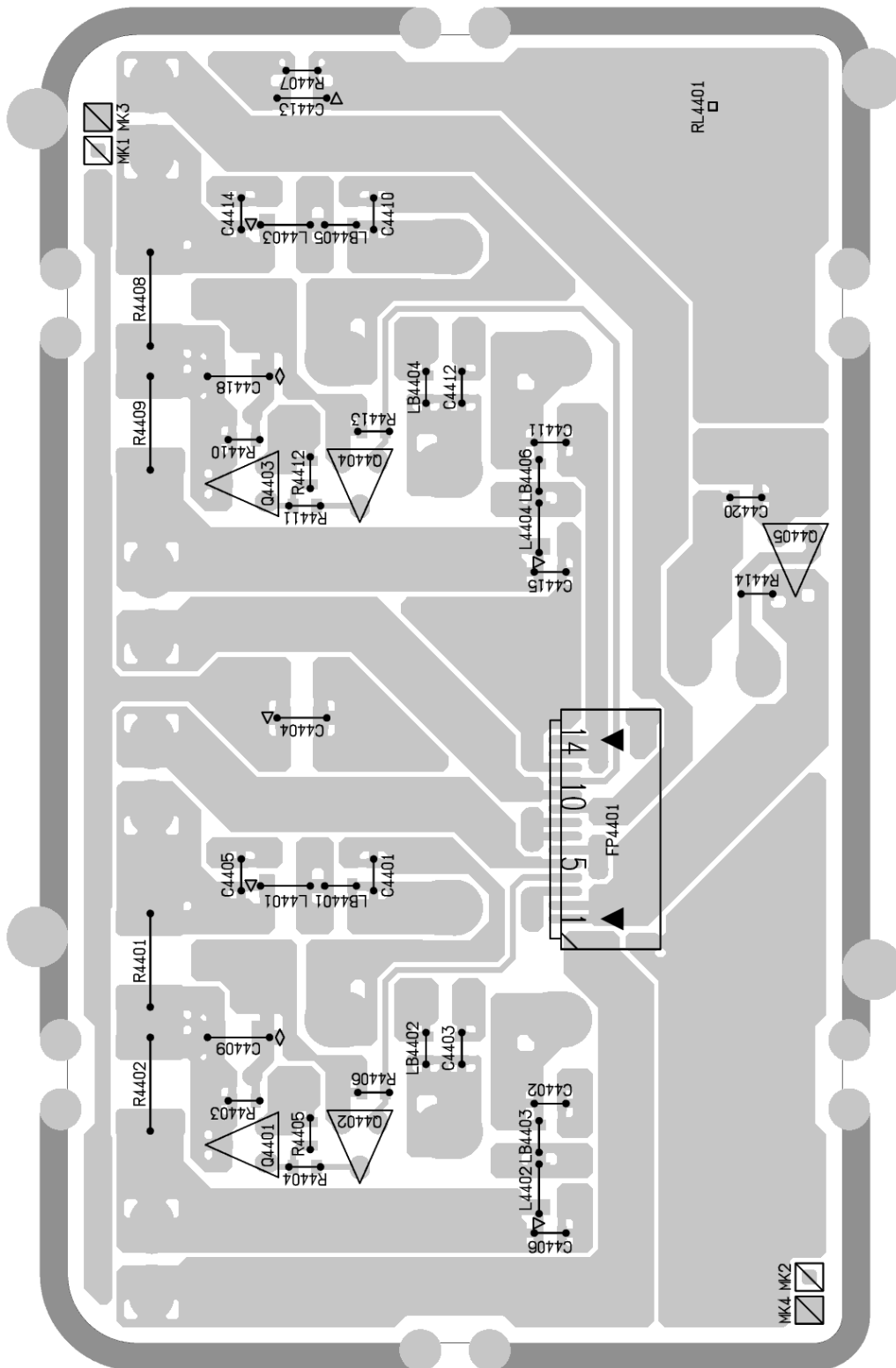
**Model No. : HDC-Z1000P/E/GC/GK Dial P.C.B.(Foil Side)**

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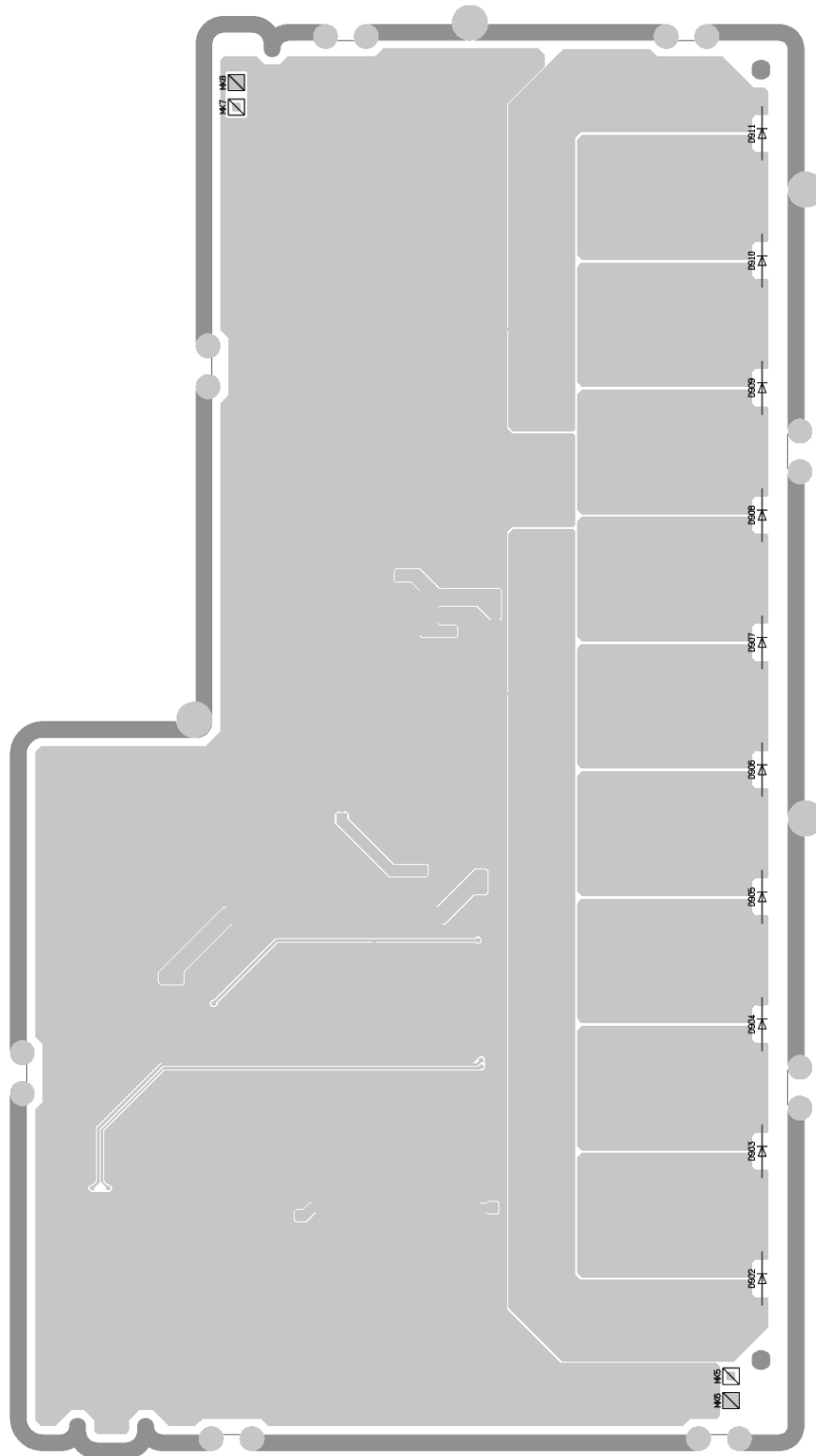
Model No. : HDC-Z10000P/E/GC/GK XLR P.C.B.(Foil Side)



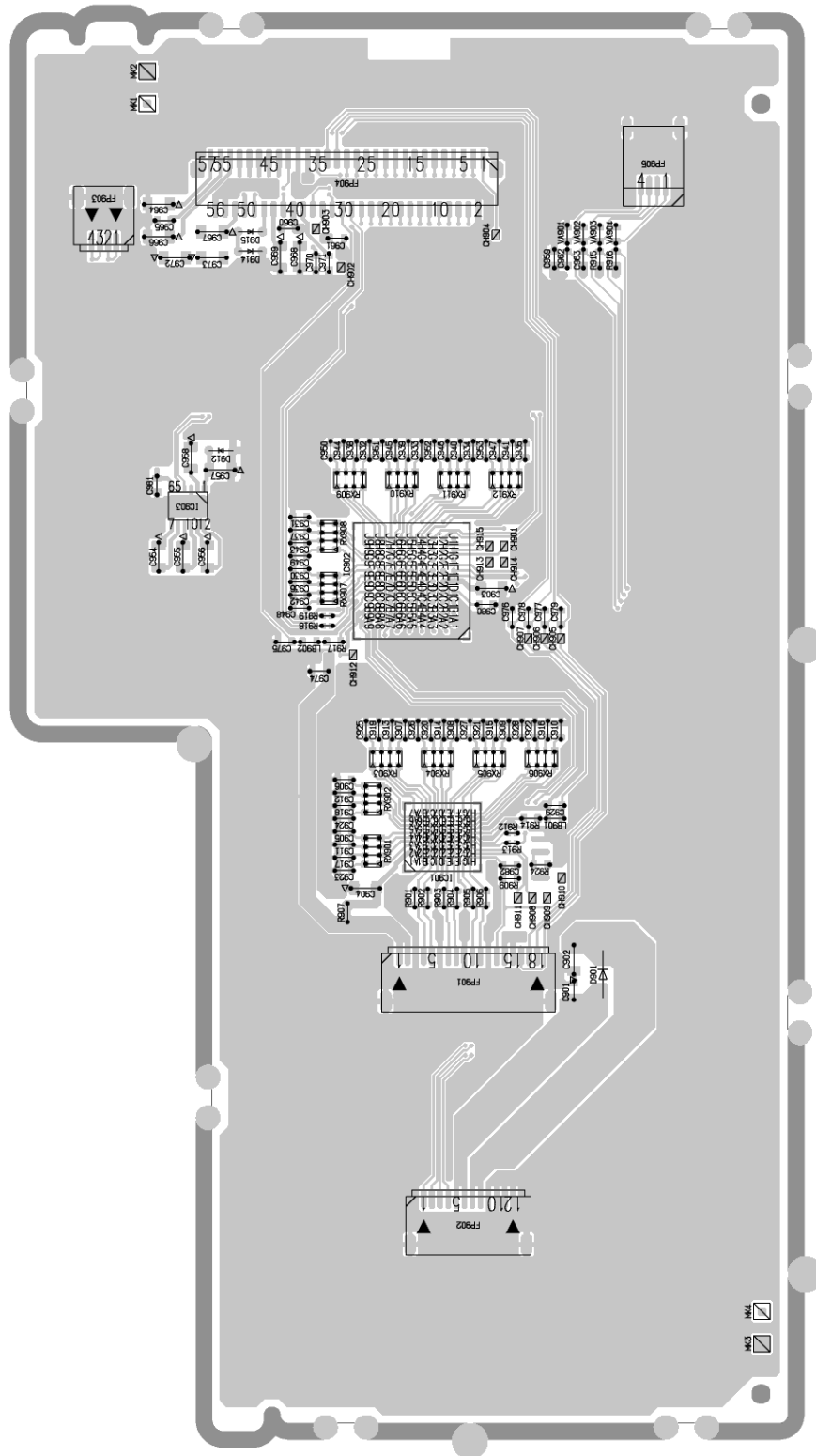
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**Model No. : HDC-Z10000P/E/GC/GK Monitor P.C.B.(Component Side)**

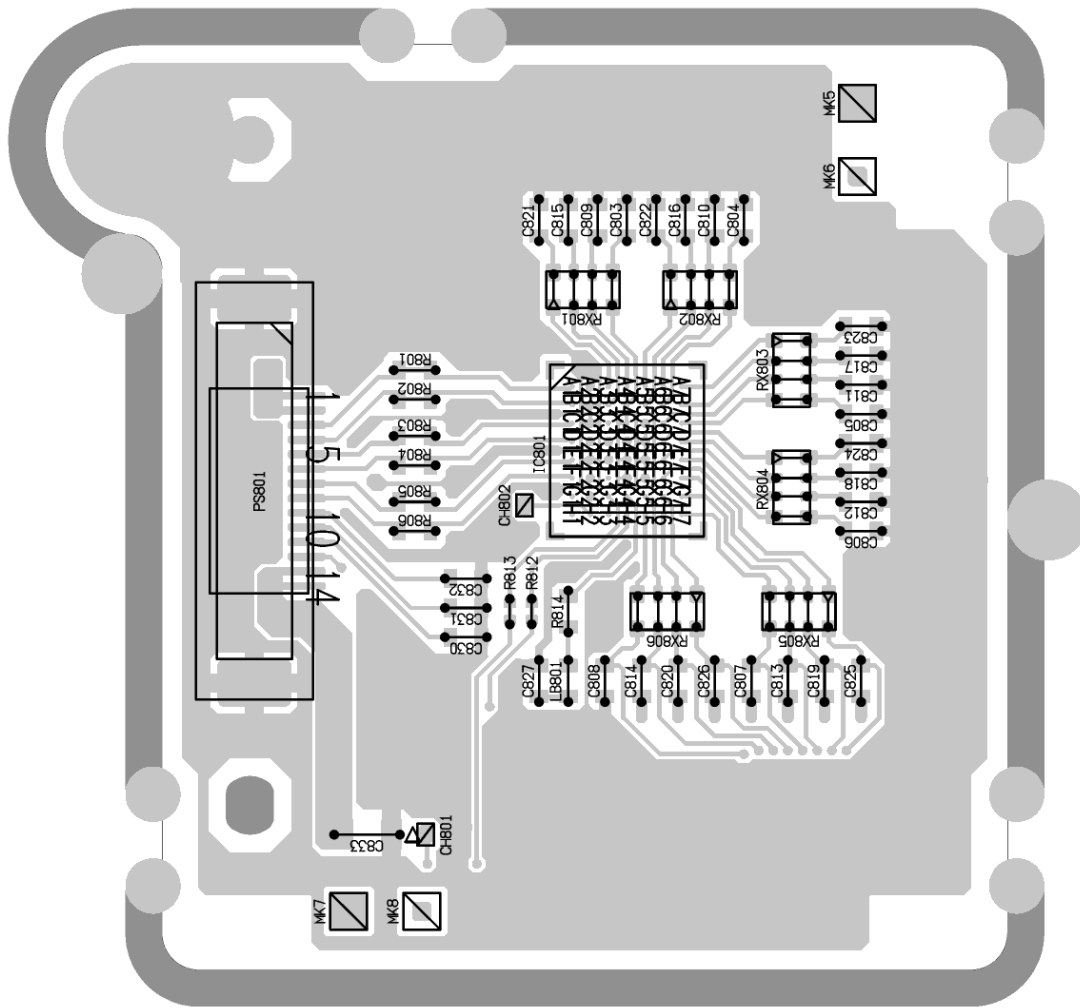
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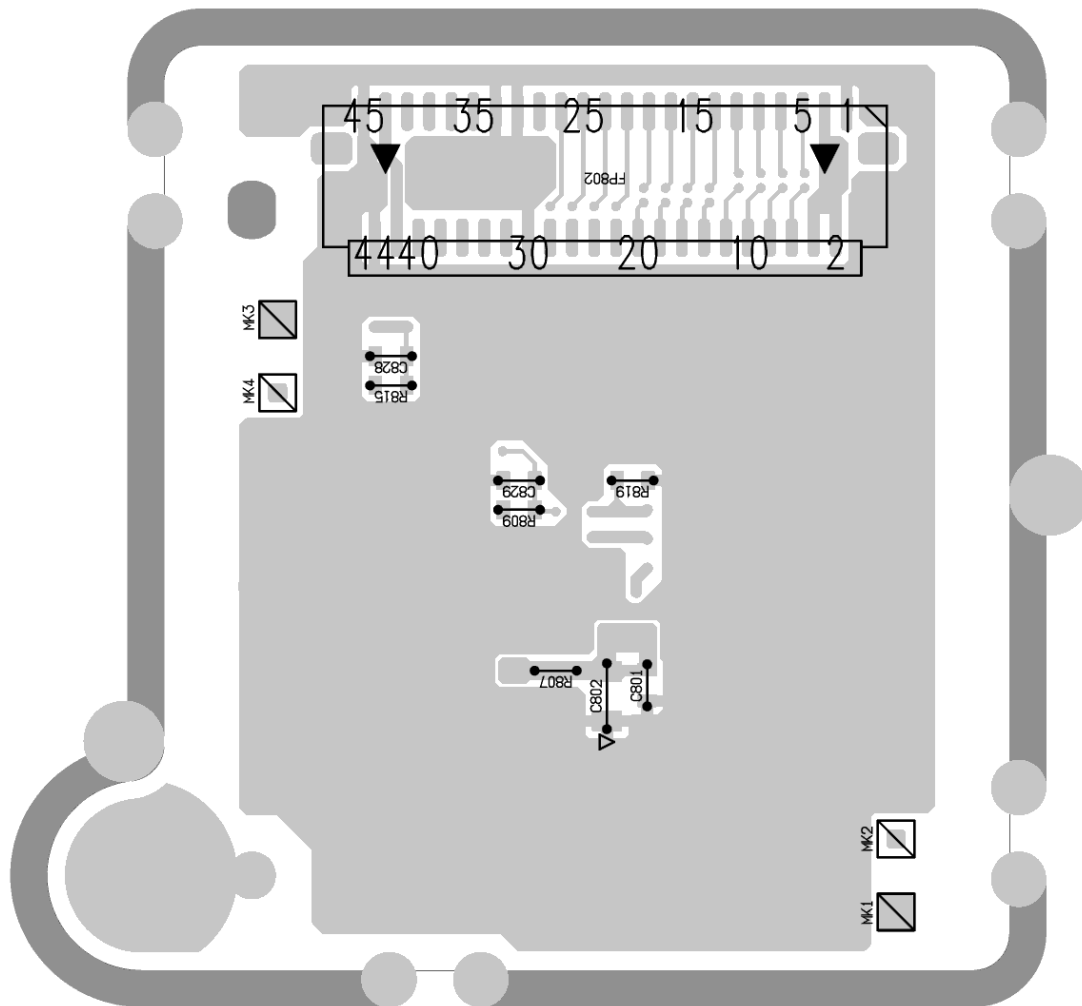


**Model No. : HDC-Z1000P/E/GC/GK Monitor P.C.B.(Foil Side)**



Model No. : HDC-Z10000P/E/GC/GK EVF P.C.B.(Component Side)





## Model No. : HDC-Z10000P/E/GC/GK Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C6681	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6682	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6683	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		FP6681	K1MY06BA0370	CONNECTOR 6P	1	
		S6682	K0F111A00471	SWITCH	1	
		S6683	K0F111A00471	SWITCH	1	
		S6684	K0F111A00471	SWITCH	1	
		C4701	ECJ1VBIH103K	C.CAPACITOR CH 50V 0.01U	1	
		C4705	F1G1H330A644	C.CAPACITOR CH 50V 33P	1	
		C4706	F1G1H330A644	C.CAPACITOR CH 50V 33P	1	
		C4707	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C4708	F1G1H330A644	C.CAPACITOR CH 50V 33P	1	
		C4710	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C4711	F3F0J226A032	T.CAPACITOR CH 6.3V 22U	1	
		C4712	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C4713	ECJ1VBIH103K	C.CAPACITOR CH 50V 0.01U	1	
		C4717	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C4718	F1G1H330A644	C.CAPACITOR CH 50V 33P	1	
		C4719	F1G1H330A644	C.CAPACITOR CH 50V 33P	1	
		C4720	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C4721	F1G1H330A644	C.CAPACITOR CH 50V 33P	1	
		C4723	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C4724	F3F0J226A032	T.CAPACITOR CH 6.3V 22U	1	
		C4725	F1J1C1060001	C.CAPACITOR CH 16V 10U	1	
		C4726	F1J1C1060001	C.CAPACITOR CH 16V 10U	1	
		C4728	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C4729	F1J1C1060001	C.CAPACITOR CH 16V 10U	1	
		C4731	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C4732	F1J1E105A171	C.CAPACITOR CH 25V 1U	1	
		C4801	F1G1A473A032	C.CAPACITOR CH 10V 0.047U	1	
		C4802	F1G1H680A644	C.CAPACITOR CH 50V 68P	1	
		C4803	F1G1A473A032	C.CAPACITOR CH 10V 0.047U	1	
		C4804	F1G1H680A644	C.CAPACITOR CH 50V 68P	1	
		C4805	F1G1A473A032	C.CAPACITOR CH 10V 0.047U	1	
		C4806	F1G1H680A644	C.CAPACITOR CH 50V 68P	1	
		C4807	F1G1A473A032	C.CAPACITOR CH 10V 0.047U	1	
		C4808	F1G1H680A644	C.CAPACITOR CH 50V 68P	1	
		C4809	F1G1A473A032	C.CAPACITOR CH 10V 0.047U	1	
		C4810	F1G1H680A644	C.CAPACITOR CH 50V 68P	1	
		C4811	F1G1H471A640	C.CAPACITOR CH 50V 470P	1	
		C4812	F1G1H471A640	C.CAPACITOR CH 50V 470P	1	
		C4813	F1G1H471A640	C.CAPACITOR CH 50V 470P	1	
		C4814	F1G1H471A640	C.CAPACITOR CH 50V 470P	1	
		C4815	F1G1H471A640	C.CAPACITOR CH 50V 470P	1	
		C4816	F3F0J226A032	T.CAPACITOR CH 6.3V 22U	1	
		C4817	F3F0J226A032	T.CAPACITOR CH 6.3V 22U	1	
		C4818	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C4821	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C4822	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C4823	F1G1H471A640	C.CAPACITOR CH 50V 470P	1	
		C4824	F1G1H471A640	C.CAPACITOR CH 50V 470P	1	
		C4825	F1G1C153A091	C.CAPACITOR CH 16V 0.015U	1	
		C4826	F1G1C153A091	C.CAPACITOR CH 16V 0.015U	1	
		C4827	F1G0J224A004	C.CAPACITOR CH 6.3V 0.22U	1	
		C4828	F1G0J224A004	C.CAPACITOR CH 6.3V 0.22U	1	
		C4829	F1G1C333A081	C.CAPACITOR CH 16V 0.033U	1	
		C4830	F1G1C333A081	C.CAPACITOR CH 16V 0.033U	1	
		C4831	F1G1H681A640	C.CAPACITOR CH 50V 680P	1	
		C4832	F1G1H681A640	C.CAPACITOR CH 50V 680P	1	
		C4833	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C4834	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C4835	F3F0J226A032	T.CAPACITOR CH 6.3V 22U	1	

## Model No. : HDC-Z10000P/E/GC/GK Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C6710	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C6715	F1G1H101A644	C.CAPACITOR CH 50V 100P	1	
		C6717	F1H1H104A748	C.CAPACITOR CH 50V 0.1U	1	
		C6719	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C6727	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C6728	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		D4701	DA3J101F0L	DIODE	1	E.S.D.
		D4702	DA3J101F0L	DIODE	1	E.S.D.
		D4703	DB2S31100L	DIODE	1	E.S.D.
		D4704	DA3J101F0L	DIODE	1	E.S.D.
		D4705	DA3J101F0L	DIODE	1	E.S.D.
		D4706	DB2S31100L	DIODE	1	E.S.D.
		FP6710	K1MY08BA0370	CONNECTOR 8P	1	
		FP6711	K1MY06BA0370	CONNECTOR 6P	1	
		FP6712	K1MY14BA0370	CONNECTOR 14P	1	
		FP6714	K1MY30BA0385	CONNECTOR 30P	1	
		FP6716	K1MY06BA0370	CONNECTOR 6P	1	
		FP6717	K1MN26BA0197	CONNECTOR 26P	1	
		FP6718	K1MN26BA0197	CONNECTOR 26P	1	
		IC4701	C0ABBB000220	IC	1	E.S.D.
		IC4702	C0ABBB000220	IC	1	E.S.D.
		IC4703	C0JBAR000432	IC	1	E.S.D.
		IC4704	C0ABBB000220	IC	1	E.S.D.
		IC4705	C0ABBB000220	IC	1	E.S.D.
		IC4706	C0JBAR000432	IC	1	E.S.D.
		IC4708	C0DBGY01912	IC	1	E.S.D.
		IC4801	C0ABBB000369	IC	1	E.S.D.
		IC4802	C0ABBB000369	IC	1	E.S.D.
		IC4803	C0ABBB000369	IC	1	E.S.D.
		IC4804	C0ABBB000369	IC	1	E.S.D.
		IC4805	C0ABBB000369	IC	1	E.S.D.
		IC4806	C0ABBB000220	IC	1	E.S.D.
		IC6710	B4ABC0000036	IC	1	E.S.D.
		IC6711	B4ZZ00000031	IC	1	E.S.D.
		P6710	K1KA02BA0014	CONNECTOR 2P	1	
		PS6719	K1KY10AA0805	CONNECTOR 10P	1	
		Q4801	DSC900100L	TRANSISTOR	1	E.S.D.
		QR4701	DRC9144E0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR4702	DRA9144E0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR4703	DRC9144E0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR4704	DRC9144E0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR4705	DRC9144E0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR4706	DRA9144E0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR4707	DRC9144E0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR4708	DRC9144E0L	TRANSISTOR-RESISTOR	1	E.S.D.
		R4701	ERJ2GED273X	M.RESISTOR CH 1/10W 27K	1	
		R4702	ERJ2GEJ472	M.RESISTOR CH 1/10W 4.7K	1	
		R4703	ERJ2GEJ104	M.RESISTOR CH 1/10W 100K	1	
		R4704	ERJ2GED273X	M.RESISTOR CH 1/10W 27K	1	
		R4705	ERJ2GEJ472	M.RESISTOR CH 1/10W 4.7K	1	
		R4706	ERJ2GEJ104	M.RESISTOR CH 1/10W 100K	1	
		R4707	ERJ6GEYJ104V	M.RESISTOR CH 1/10W 100K	1	
		R4708	ERJ6GEYJ104V	M.RESISTOR CH 1/10W 100K	1	
		R4711	ERJ2GEJ473Y	M.RESISTOR CH 1/10W 47K	1	
		R4712	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
		R4713	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
		R4715	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
		R4716	ERJ2GEJ472	M.RESISTOR CH 1/10W 4.7K	1	
		R4717	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
		R4718	ERJ2GEJ105	M.RESISTOR CH 1/10W 1M	1	
		R4719	ERJ2GEJ511	M.RESISTOR CH 1/16W 510	1	
		R4720	ERJ2GEJ472	M.RESISTOR CH 1/10W 4.7K	1	

## Model No. : HDC-Z10000P/E/GC/GK Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R4721	ERJ2GEJ472	M.RESISTOR CH 1/10W 4.7K	1	
		R4722	ERJ2GEJ472	M.RESISTOR CH 1/10W 4.7K	1	
		R4723	ERJ2GEJ472	M.RESISTOR CH 1/10W 4.7K	1	
		R4724	ERJ6GEYJ472V	M.RESISTOR CH 1/10W 4.7K	1	
		R4725	ERJ2GEJ472	M.RESISTOR CH 1/10W 4.7K	1	
		R4726	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
		R4727	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
		R4730	ERJ2GEJ104	M.RESISTOR CH 1/10W 100K	1	
		R4731	ERJ2GEJ473Y	M.RESISTOR CH 1/10W 47K	1	
		R4732	ERJ2GEJ473Y	M.RESISTOR CH 1/10W 47K	1	
		R4734	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
		R4742	ERJ6GEYJ104V	M.RESISTOR CH 1/10W 100K	1	
		R4743	ERJ6GEYJ104V	M.RESISTOR CH 1/10W 100K	1	
		R4746	ERJ2GEJ473Y	M.RESISTOR CH 1/10W 47K	1	
		R4747	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
		R4748	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
		R4750	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
		R4751	ERJ2GEJ472	M.RESISTOR CH 1/10W 4.7K	1	
		R4752	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
		R4753	ERJ2GEJ105	M.RESISTOR CH 1/10W 1M	1	
		R4754	ERJ2GEJ511	M.RESISTOR CH 1/16W 510	1	
		R4756	ERJ2GEJ472	M.RESISTOR CH 1/10W 4.7K	1	
		R4757	ERJ2GEJ472	M.RESISTOR CH 1/10W 4.7K	1	
		R4758	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
		R4759	ERJ2GEJ472	M.RESISTOR CH 1/10W 4.7K	1	
		R4760	ERJ2GEJ472	M.RESISTOR CH 1/10W 4.7K	1	
		R4761	ERJ6GEYJ472V	M.RESISTOR CH 1/10W 4.7K	1	
		R4762	ERJ2GEJ472	M.RESISTOR CH 1/10W 4.7K	1	
		R4763	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
		R4764	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
		R4767	ERJ2GEJ104	M.RESISTOR CH 1/10W 100K	1	
		R4768	ERJ2GEJ473Y	M.RESISTOR CH 1/10W 47K	1	
		R4769	ERJ2GEJ473Y	M.RESISTOR CH 1/10W 47K	1	
		R4801	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
		R4802	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
		R4803	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
		R4804	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
		R4805	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
		R4806	ERJ2GEJ183	M.RESISTOR CH 1/10W 18K	1	
		R4807	ERJ2GEJ683	M.RESISTOR CH 1/16W 68K	1	
		R4808	ERJ2GEJ183	M.RESISTOR CH 1/10W 18K	1	
		R4809	ERJ2GEJ683	M.RESISTOR CH 1/16W 68K	1	
		R4810	ERJ2GEJ183	M.RESISTOR CH 1/10W 18K	1	
		R4811	ERJ2GEJ683	M.RESISTOR CH 1/16W 68K	1	
		R4812	ERJ2GEJ183	M.RESISTOR CH 1/10W 18K	1	
		R4813	ERJ2GEJ683	M.RESISTOR CH 1/16W 68K	1	
		R4814	ERJ2GEJ183	M.RESISTOR CH 1/10W 18K	1	
		R4815	ERJ2GEJ683	M.RESISTOR CH 1/16W 68K	1	
		R4816	ERJ2GEJ472	M.RESISTOR CH 1/10W 4.7K	1	
		R4817	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
		R4818	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
		R4821	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
		R4822	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
		R4823	ERJ2GED563X	M.RESISTOR CH 1/10W 56K	1	
		R4824	ERJ2GED563X	M.RESISTOR CH 1/10W 56K	1	
		R4825	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
		R4826	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1	
		R4827	ERJ2GED273X	M.RESISTOR CH 1/10W 27K	1	
		R4828	ERJ2GED273X	M.RESISTOR CH 1/10W 27K	1	
		R4829	ERJ2GEJ473Y	M.RESISTOR CH 1/10W 47K	1	
		R4830	ERJ2GEJ473Y	M.RESISTOR CH 1/10W 47K	1	
		R4831	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	

## Model No. : HDC-Z10000P/E/GC/GK Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R4832	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
		R4833	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
		R4834	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
		R4835	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
		R4836	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
		R4839	ERJ2GEJ473Y	M.RESISTOR CH 1/10W 47K	1	
		R4840	ERJ2GEJ473Y	M.RESISTOR CH 1/10W 47K	1	
		S4701	K0D142A00034	SWITCH	1	
		S4702	K0D122A00126	SWITCH	1	
		S4703	K0D142A00034	SWITCH	1	
		S4704	K0D122A00126	SWITCH	1	
		C4401	F1G2A471A001	C.CAPACITOR CH 100V 470P	1	
		C4402	F1G2A471A001	C.CAPACITOR CH 100V 470P	1	
		C4403	F1G2A471A001	C.CAPACITOR CH 100V 470P	1	
		C4404	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
		C4405	F1G2A471A001	C.CAPACITOR CH 100V 470P	1	
		C4406	F1G2A471A001	C.CAPACITOR CH 100V 470P	1	
		C4407	F2JZZ1R00004	E.CAPACITOR CH 100V 1U	1	
		C4408	F2JZZ1R00004	E.CAPACITOR CH 100V 1U	1	
		C4409	F1J2A104A023	C.CAPACITOR CH 100V 0.1U	1	
		C4410	F1G2A471A001	C.CAPACITOR CH 100V 470P	1	
		C4411	F1G2A471A001	C.CAPACITOR CH 100V 470P	1	
		C4412	F1G2A471A001	C.CAPACITOR CH 100V 470P	1	
		C4413	ECJ1VB1H103K	C.CAPACITOR CH 50V 0.01U	1	
		C4414	F1G2A471A001	C.CAPACITOR CH 100V 470P	1	
		C4415	F1G2A471A001	C.CAPACITOR CH 100V 470P	1	
		C4416	F2JZZ1R00004	E.CAPACITOR CH 100V 1U	1	
		C4417	F2JZZ1R00004	E.CAPACITOR CH 100V 1U	1	
		C4418	F1J2A104A023	C.CAPACITOR CH 100V 0.1U	1	
		C4419	F2A1J3300032	E.CAPACITOR 63V 33U	1	
		FP4401	K1MYL4BA0370	CONNECTOR 14P	1	
		L4401	G1C100MA0495	CHIP INDUCTOR 10UH	1	
		L4402	G1C100MA0495	CHIP INDUCTOR 10UH	1	
		L4403	G1C100MA0495	CHIP INDUCTOR 10UH	1	
		L4404	G1C100MA0495	CHIP INDUCTOR 10UH	1	
		LB4401	J0JCC0000276	FILTER	1	
		LB4402	J0JCC0000276	FILTER	1	
		LB4403	J0JCC0000276	FILTER	1	
		LB4404	J0JCC0000276	FILTER	1	
		LB4405	J0JCC0000276	FILTER	1	
		LB4406	J0JCC0000276	FILTER	1	
		P4401	K1AB103A0011	CONNECTOR, AUDIO INPUT	1	
		P4402	K1AB103A0011	CONNECTOR, AUDIO INPUT	1	
		Q4401	B1ADBL000010	TRANSISTOR	1	E.S.D.
		Q4402	B1ABBL000006	TRANSISTOR	1	E.S.D.
		Q4403	B1ADBL000010	TRANSISTOR	1	E.S.D.
		Q4404	B1ABBL000006	TRANSISTOR	1	E.S.D.
		Q4405	B1ABBL000006	TRANSISTOR	1	E.S.D.
		R4401	ERJ14YJ682	M.RESISTOR CH 1/2W 6.8K	1	
		R4402	ERJ14YJ682	M.RESISTOR CH 1/2W 6.8K	1	
		R4403	ERJ2GEJ105	M.RESISTOR CH 1/10W 1M	1	
		R4404	ERJ2GEJ224	M.RESISTOR CH 1/10W 220K	1	
		R4405	ERJ2GEJ224	M.RESISTOR CH 1/10W 220K	1	
		R4406	ERJ2GEJ473Y	M.RESISTOR CH 1/10W 47K	1	
		R4408	ERJ14YJ682	M.RESISTOR CH 1/2W 6.8K	1	
		R4409	ERJ14YJ682	M.RESISTOR CH 1/2W 6.8K	1	
		R4410	ERJ2GEJ105	M.RESISTOR CH 1/10W 1M	1	
		R4411	ERJ2GEJ224	M.RESISTOR CH 1/10W 220K	1	
		R4412	ERJ2GEJ224	M.RESISTOR CH 1/10W 220K	1	
		R4413	ERJ2GEJ473Y	M.RESISTOR CH 1/10W 47K	1	
		R4414	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
		C901	F1G1H101A644	C.CAPACITOR CH 50V 100P	1	

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C902	F1H1H104A748	C.CAPACITOR CH 50V 0.1U	1	
		C903	F1H0J4750004	C.CAPACITOR CH 6.3V 4.7U	1	
		C904	F1H0J4750004	C.CAPACITOR CH 6.3V 4.7U	1	
		C905	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C906	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C907	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C908	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C909	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C910	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C911	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C912	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C913	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C914	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C915	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C916	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C917	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C918	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C919	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C920	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C921	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C922	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C923	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C924	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C925	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C926	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C927	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C928	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C930	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C931	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C932	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C933	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C934	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C935	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C936	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C937	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C938	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C939	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C940	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C941	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C942	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C943	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C944	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C945	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C946	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C947	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C948	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C949	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C950	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C951	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C952	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C953	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C954	ECJ1VB1A105K	C.CAPACITOR CH 10V 1U	1	
		C955	ECJ1VB1A105K	C.CAPACITOR CH 10V 1U	1	
		C956	ECJ1VB1A105K	C.CAPACITOR CH 10V 1U	1	
		C957	F1H1A225A051	C.CAPACITOR CH 10V 2.2U	1	
		C958	F1H1A225A051	C.CAPACITOR CH 10V 2.2U	1	
		C959	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C960	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C961	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C962	F1G1H102A640	C.CAPACITOR CH 50V 1000P	1	
		C963	F1G1H102A640	C.CAPACITOR CH 50V 1000P	1	
		C964	F1H0J2250008	C.CAPACITOR CH 6.3V 2.2U	1	


## Model No. : HDC-Z10000P/E/GC/GK Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C965	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C966	F1H1E105A116	C.CAPACITOR CH 25V 1U	1	
		C967	F1H1E105A116	C.CAPACITOR CH 25V 1U	1	
		C968	ECJ1VB1A105K	C.CAPACITOR CH 10V 1U	1	
		C969	ECJ1VB1A105K	C.CAPACITOR CH 10V 1U	1	
		C970	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C971	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C972	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
		C973	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
		C974	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C980	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		D901	DZ2J360M0L	DIODE	1	E.S.D.
		D902	B3AFB0000426	LED	1	E.S.D.
		D903	B3AFB0000426	LED	1	E.S.D.
		D904	B3AFB0000426	LED	1	E.S.D.
		D905	B3AFB0000426	LED	1	E.S.D.
		D906	B3AFB0000426	LED	1	E.S.D.
		D907	B3AFB0000426	LED	1	E.S.D.
		D908	B3AFB0000426	LED	1	E.S.D.
		D909	B3AFB0000426	LED	1	E.S.D.
		D910	B3AFB0000426	LED	1	E.S.D.
		D911	B3AFB0000426	LED	1	E.S.D.
		D912	B0JCDD000001	DIODE	1	E.S.D.
		D914	B0JCDD000001	DIODE	1	E.S.D.
		D915	B0JCDD000001	DIODE	1	E.S.D.
		FP901	K1MY18BA0370	CONNECTOR 18P	1	
		FP902	K1MY12BA0370	CONNECTOR 12P	1	
		FP903	K1MY04BA0370	CONNECTOR 4P	1	
		FP904	K1MN57BA0047	CONNECTOR 57P	1	
		FP905	K1MN04BA0262	CONNECTOR 4P	1	
		IC901	C1CB00002847	IC	1	E.S.D.
		IC902	C1AB00003791	IC	1	E.S.D.
		IC903	C1ZBZ0004521	IC	1	E.S.D.
		LB901	J0JBC0000099	FILTER	1	
		LB902	J0JBC0000099	FILTER	1	
		R914	ERJ2GEJ820	M.RESISTOR CH 1/16W 82	1	
		R917	ERJ2GEJ820	M.RESISTOR CH 1/16W 82	1	
		RX901	D1H88204A024	RESISTOR NETWORKS	1	
		RX902	D1H88204A024	RESISTOR NETWORKS	1	
		RX903	D1H88204A024	RESISTOR NETWORKS	1	
		RX904	D1H88204A024	RESISTOR NETWORKS	1	
		RX905	D1H88204A024	RESISTOR NETWORKS	1	
		RX906	D1H88204A024	RESISTOR NETWORKS	1	
		RX907	D1H88204A024	RESISTOR NETWORKS	1	
		RX908	D1H88204A024	RESISTOR NETWORKS	1	
		RX909	D1H88204A024	RESISTOR NETWORKS	1	
		RX910	D1H88204A024	RESISTOR NETWORKS	1	
		RX911	D1H88204A024	RESISTOR NETWORKS	1	
		RX912	D1H88204A024	RESISTOR NETWORKS	1	
		VA901	D4ED18R00008	VARISTOR	1	
		VA902	D4ED18R00008	VARISTOR	1	
		VA903	D4ED18R00008	VARISTOR	1	
		VA904	D4ED18R00008	VARISTOR	1	
		C6601	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6602	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		D6601	B3AAB0000343	LED	1	E.S.D.
		FP6601	K1MN06BA0252	CONNECTOR 6P	1	
		S6601	ESE22MV21T	SWITCH	1	
		S6602	K0F111A00471	SWITCH	1	
		C6691	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6692	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6693	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	

## Model No. : HDC-Z10000P/E/GC/GK Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		FP6691	K1MN06A00065	CONNECTOR 6P	1	
		S6691	D2B1B15Y0001	SWITCH, ZOOM	1	
		S6692	K0F111A00471	SWITCH	1	
		C6501	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6502	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6503	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C6506	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6507	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6512	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6513	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6514	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6515	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6518	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6519	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6530	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C6531	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C6551	F1H1E105A116	C.CAPACITOR CH 25V 1U	1	
		C6553	F3G0J107A017	C.CAPACITOR CH 6.3V 100U	1	
		C6554	F3G0J107A017	C.CAPACITOR CH 6.3V 100U	1	
		C6555	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		FL6551	J0MAB0000221	FILTER	1	
		FP6501	K1MN16A00077	CONNECTOR 16P	1	
	⚠	IP6551	K5H402YA0080	FUSE	1	
		JK6501	K2HC103B0202	JACK, HEADPHONE	1	
		JK6502	K2HD103B0015	JACK, CONV.	1	
		JK6503	K2HC106B0010	JACK, CAM REMOTE	1	
		JK6504	K2HD103B0015	JACK, ZOOM/SS	1	
		JK6551	K2ED2B000009	JACK, DC IN	1	
		LB6501	J0JCC0000276	FILTER	1	
		LB6502	J0JCC0000276	FILTER	1	
		LB6503	J0JCC0000276	FILTER	1	
		LB6504	J0JHC0000078	FILTER	1	
		P6502	K1KA02B00247	CONNECTOR 2P	1	
		Q6501	DSC900100L	TRANSISTOR	1	E.S.D.
		Q6502	DSA900100L	TRANSISTOR	1	E.S.D.
		Q6503	DSC900100L	TRANSISTOR	1	E.S.D.
		Q6504	DSA900100L	TRANSISTOR	1	E.S.D.
		Q6505	DSC900100L	TRANSISTOR	1	E.S.D.
		Q6506	DSA900100L	TRANSISTOR	1	E.S.D.
		Q6507	DSC900100L	TRANSISTOR	1	E.S.D.
		Q6508	DSA900100L	TRANSISTOR	1	E.S.D.
		R6502	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
		R6503	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
		R6504	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
		R6505	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
		R6506	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
		R6507	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
		R6508	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
		R6509	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
		R6530	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
		R6531	ERJ2RHD223	M.RESISTOR CH 1/16W 22K	1	
		R6533	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
		R6534	ERJ2RHD203	M.RESISTOR CH 1/16W 20K	1	
		R6535	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
		R6536	ERJ2RHD203	M.RESISTOR CH 1/16W 20K	1	
		R6537	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1	
		R6538	ERJ2RHD203	M.RESISTOR CH 1/16W 20K	1	
		R6544	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
		VA6504	D4EDY1310001	VARISTOR	1	
		VA6505	D4EDY1310001	VARISTOR	1	
		VA6506	D4EDY1310001	VARISTOR	1	
		VA6507	D4EDY1310001	VARISTOR	1	


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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		VA6508	D4EDY1310001	VARISTOR	1	
		VA6509	D4EDY1310001	VARISTOR	1	
		VA6510	D4EDY1310001	VARISTOR	1	
		C802	F1H0J4750004	C.CAPACITOR CH 6.3V 4.7U	1	
		C803	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C804	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C805	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C806	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C807	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C808	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C809	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C810	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C811	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C812	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C813	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C814	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C815	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C816	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C817	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C818	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C819	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C820	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C821	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C822	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C823	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C824	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C825	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C826	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C833	F1H0J4750004	C.CAPACITOR CH 6.3V 4.7U	1	
		FP802	K1MY45BA0235	CONNECTOR 45P	1	
		IC801	C1CB00002847	IC	1	E.S.D.
		LB801	J0JBC0000099	FILTER	1	
		PS801	K1KY14AA0805	CONNECTOR 14P	1	
		R814	ERJ2GEJ820	M.RESISTOR CH 1/16W 82	1	
		RX801	D1H88204A024	RESISTOR NETWORKS	1	
		RX802	D1H88204A024	RESISTOR NETWORKS	1	
		RX803	D1H88204A024	RESISTOR NETWORKS	1	
		RX804	D1H88204A024	RESISTOR NETWORKS	1	
		RX805	D1H88204A024	RESISTOR NETWORKS	1	
		RX806	D1H88204A024	RESISTOR NETWORKS	1	
		B6951	ML-614S/ZTK	BATTERY	1	[ENERGY]
		C6951	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C6952	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C6953	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6954	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6955	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6956	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6957	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6958	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6959	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6960	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6961	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6962	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6963	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6964	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6965	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6966	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6967	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6968	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C6969	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6970	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6971	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	

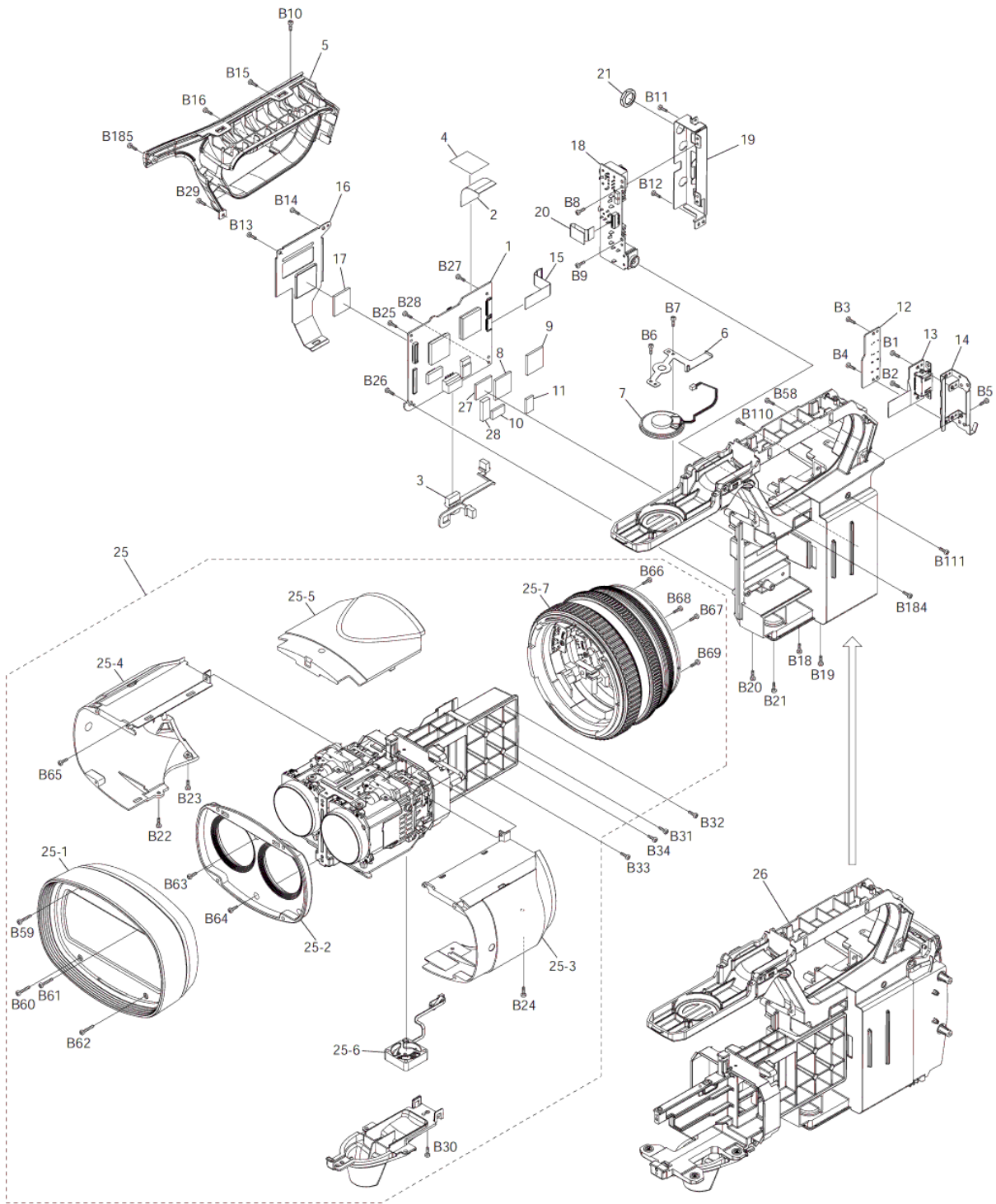
**Model No. : HDC-Z10000P/E/GC/GK Parts List**

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C6973	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6974	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6975	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6976	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C6977	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C6978	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6981	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C6982	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		D6953	B3ABB0000331	LED	1	E.S.D.
		FP6951	K1MN12BA0197	CONNECTOR 12P	1	
		FP6953	K1MN06A00065	CONNECTOR 6P	1	
		IC6951	C0JBAQ000253	IC	1	E.S.D.
		IC6952	C0JBAQ000253	IC	1	E.S.D.
		IC6953	C0JBAQ000253	IC	1	E.S.D.
		IC6957	C0JBAB000621	IC	1	E.S.D.
		IC6958	C0JBAB000621	IC	1	E.S.D.
		R6951	ERJ2GEJ220	M.RESISTOR CH 1/16W 22	1	
		R6952	ERJ2GEJ220	M.RESISTOR CH 1/16W 22	1	
		R6953	ERJ2GEJ220	M.RESISTOR CH 1/16W 22	1	
		R6955	ERJ2GEJ222	M.RESISTOR CH 1/10W 2.2K	1	
		R6956	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
		R6957	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
		R6958	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
		R6960	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
		RX6951	EXB28V103JX	RESISTOR NETWORKS	1	
		RX6952	EXB28V103JX	RESISTOR NETWORKS	1	
		RX6953	EXB28V103JX	RESISTOR NETWORKS	1	
		RX6954	EXB28V103JX	RESISTOR NETWORKS	1	
		RX6955	EXB28V103JX	RESISTOR NETWORKS	1	
		RX6956	EXB28V103JX	RESISTOR NETWORKS	1	
		S6951	K0F111A00589	SWITCH	1	
		S6952	K0F111A00589	SWITCH	1	
		S6953	K0F111A00589	SWITCH	1	
		S6954	K0F111A00589	SWITCH	1	
		S6955	K0F111A00589	SWITCH	1	
		S6956	K0F111A00589	SWITCH	1	
		S6957	K0F111A00589	SWITCH	1	
		S6958	K0F111A00589	SWITCH	1	
		S6959	K0F111A00589	SWITCH	1	
		S6960	K0F111A00589	SWITCH	1	
		S6961	K0F111A00589	SWITCH	1	
		S6962	K0F111A00589	SWITCH	1	
		S6963	K0F111A00589	SWITCH	1	
		S6964	K0F111A00589	SWITCH	1	
		S6965	K0F111A00589	SWITCH	1	
		S6971	K0D112B00142	SWITCH	1	
		S6972	K0D112B00142	SWITCH	1	
		S6973	VSS0549	SWITCH	1	
		S6974	K0D112B00142	SWITCH	1	
		VA6981	D4ED18R00004	VARISTOR	1	
		VA6982	D4ED18R00004	VARISTOR	1	
		VR6981	D2BBA14Y0002	VOLUME CH1 AUDIO	1	
		VR6982	D2BBA14Y0002	VOLUME CH2 AUDIO	1	
		ZB6951	K3ZZ00500014	BATTERY HOLDER	1	
		FP6971	K1MN06BA0252	CONNECTOR 6P	1	
		SW6971	K9AA012Y0009	ROTARY ENCODER	1	
		C3906	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3907	F3G0J107A017	C.CAPACITOR CH 6.3V 100U	1	
		C3908	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C3909	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3910	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C3911	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	

## Model No. : HDC-Z10000P/E/GC/GK Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C3936	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3937	F3G0J107A017	C.CAPACITOR CH 6.3V 100U	1	
		C3938	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C3940	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C3941	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		D3901	B3AAB0000343	LED	1	E.S.D.
		D3931	B3AAB0000343	LED	1	E.S.D.
		FP3901	K1MY30BA0385	CONNECTOR 30P	1	
		HS3901	K1NA09E00098	SD CARD CONNECTOR	1	
		HS3931	K1NA09E00098	SD CARD CONNECTOR	1	
		Q3901	B1ADKB000015	TRANSISTOR	1	E.S.D.
		Q3931	B1ADKB000015	TRANSISTOR	1	E.S.D.
		R3901	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	1	
		R3902	ERJ2GEJ560X	M.RESISTOR CH 1/10W 56	1	
		R3903	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
		R3904	ERJ2GEJ271	M.RESISTOR CH 1/10W 270	1	
		R3905	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
		R3906	ERJ2GEJ102Y	M.RESISTOR CH 1/10W 1K	1	
		R3907	ERJ2GEJ102Y	M.RESISTOR CH 1/10W 1K	1	
		R3909	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
		R3910	D0GB150JA057	M.RESISTOR CH 1/10W 15	1	
		R3931	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	1	
		R3932	ERJ2GEJ560X	M.RESISTOR CH 1/10W 56	1	
		R3933	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
		R3934	ERJ2GEJ271	M.RESISTOR CH 1/10W 270	1	
		R3935	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
		R3936	ERJ2GEJ102Y	M.RESISTOR CH 1/10W 1K	1	
		R3937	ERJ2GEJ102Y	M.RESISTOR CH 1/10W 1K	1	
		R3939	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1	
		R3940	D0GB150JA057	M.RESISTOR CH 1/10W 15	1	
		RX3901	D1H85604A024	RESISTOR NETWORKS	1	
		RX3902	EXB28V103JX	RESISTOR NETWORKS	1	
		RX3931	D1H85604A024	RESISTOR NETWORKS	1	
		RX3932	EXB28V103JX	RESISTOR NETWORKS	1	
		C6304	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C6306	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C6307	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C6308	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C6309	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C6311	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6312	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		FP6301	K1MN08A00072	CONNECTOR 8P	1	
		IC6301	EWTS9PSL11	IC	1	E.S.D.
		IC6302	C0ABHA000054	IC	1	E.S.D.
		IP6301	K5H402YA0080	IC PROTECTOR	1	
		JK6301	K4Z204000049	JACK, BATTERY CATCH	1	
		L6305	G1C100MA0495	CHIP INDUCTOR 10UH	1	
		P6301	K1KA02B00247	CONNECTOR 2P	1	
		R6311	ERJ2RHD393	M.RESISTOR CH 1/16W 39K	1	
		R6312	ERJ2RHD393	M.RESISTOR CH 1/16W 39K	1	
		R6321	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
		R6322	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
		R6323	ERJ2RHD683	M.RESISTOR CH 1/16W 68K	1	
		R6324	ERJ2RHD683	M.RESISTOR CH 1/16W 68K	1	
		R6331	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
		R6332	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
		VA6301	D4EDY1310001	VARISTOR	1	
		VA6302	D4EDY1310001	VARISTOR	1	

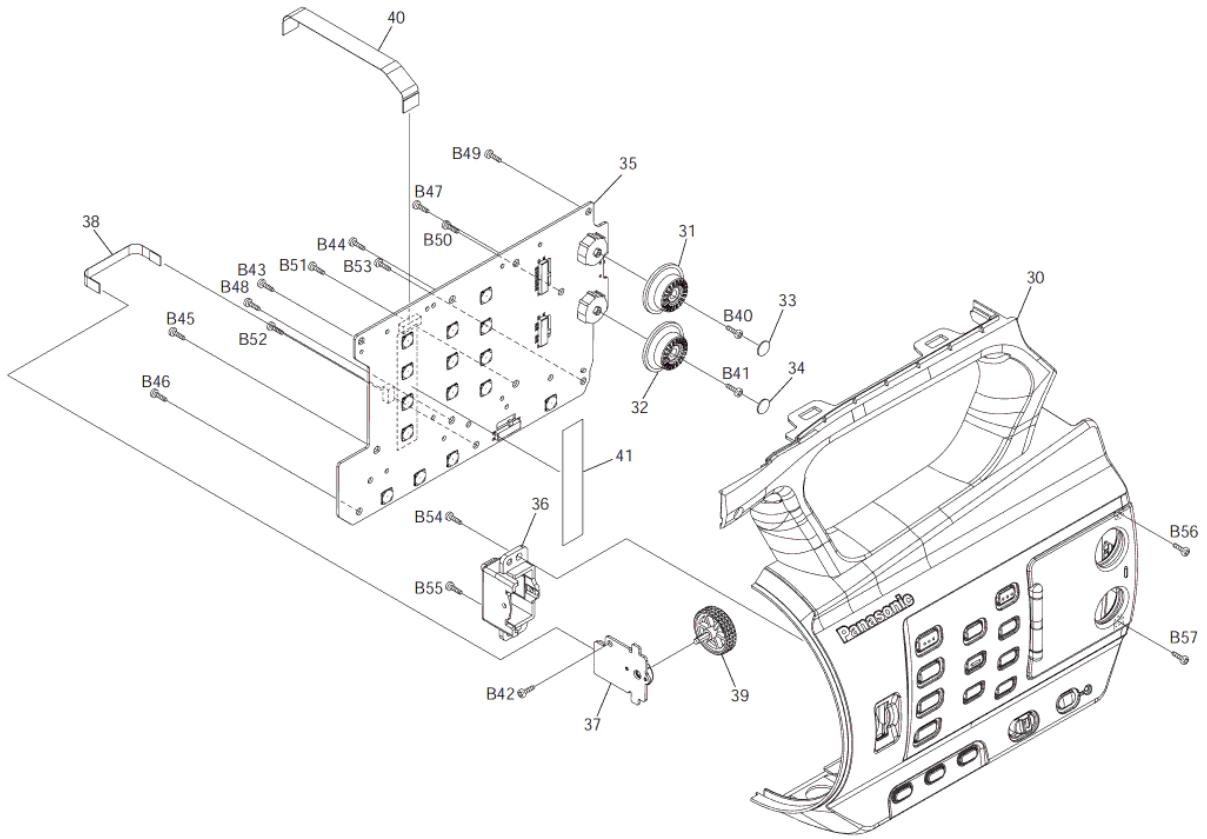
**Model No. : HDC-Z10000P/E/GC/GK 3D Lens and Main Frame Section**



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**Model No. : HDC-Z10000P/E/GC/GK Side Case R Section**

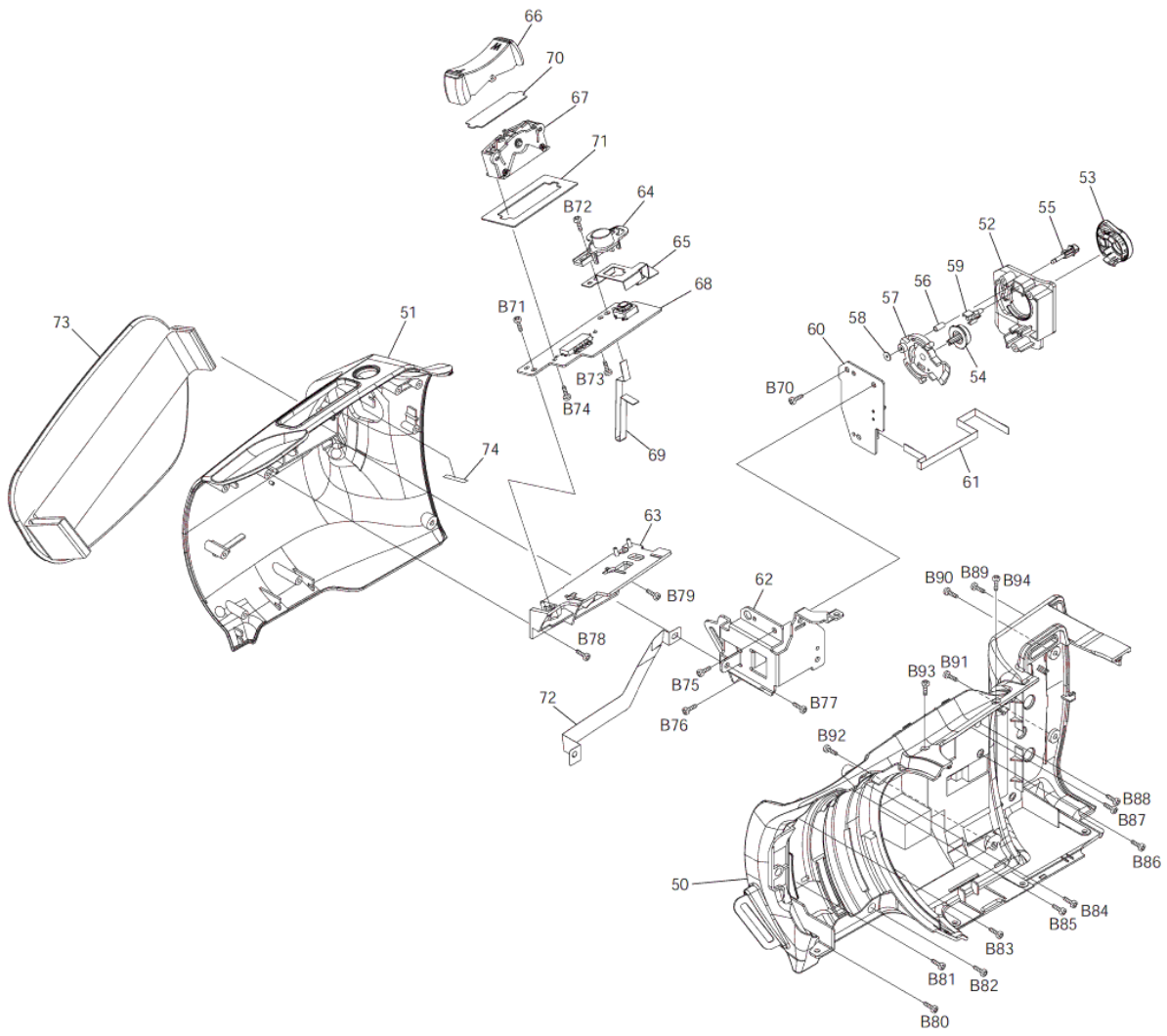
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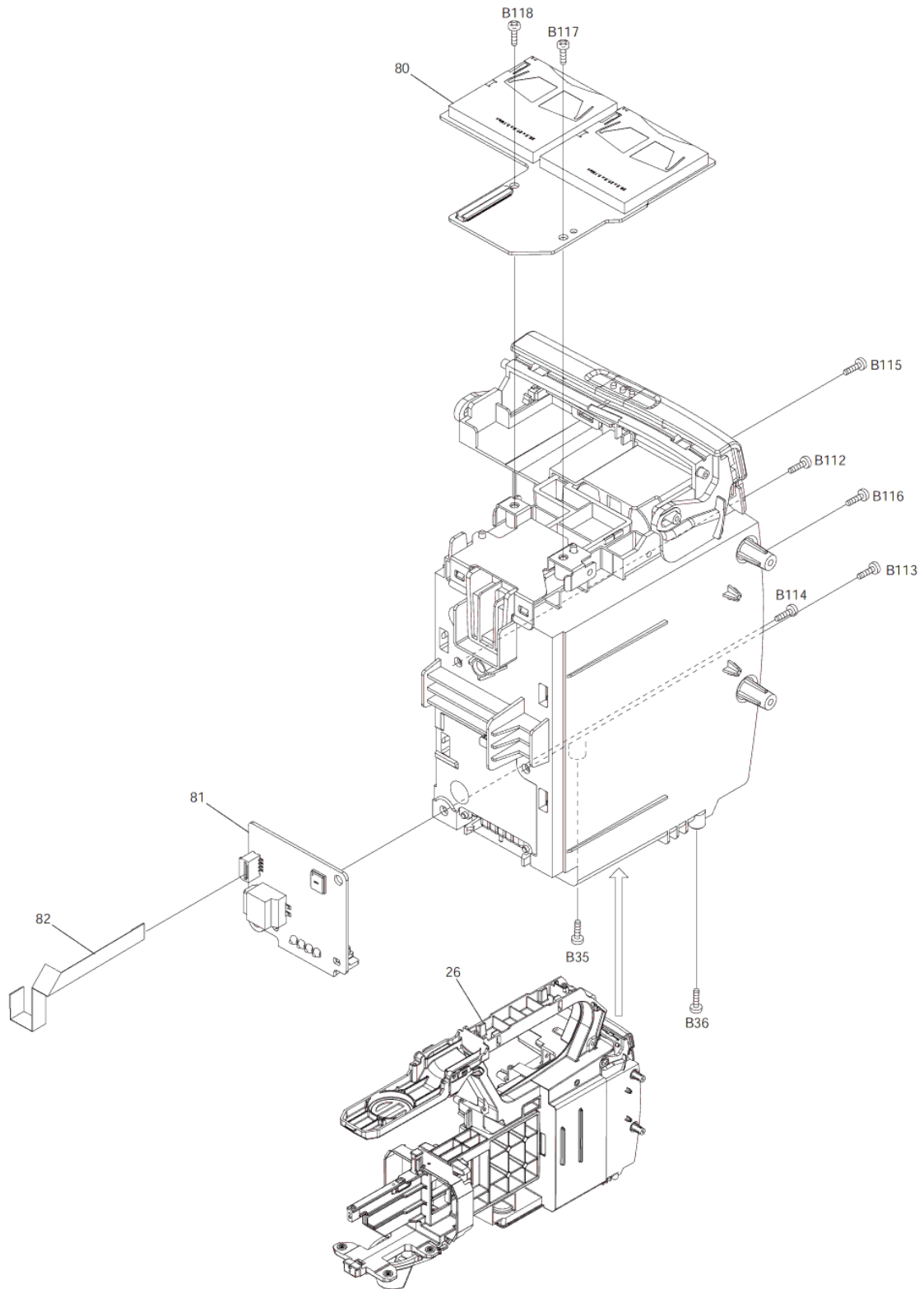
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**Model No. : HDC-Z10000P/E/GC/GK Side Case L Section**

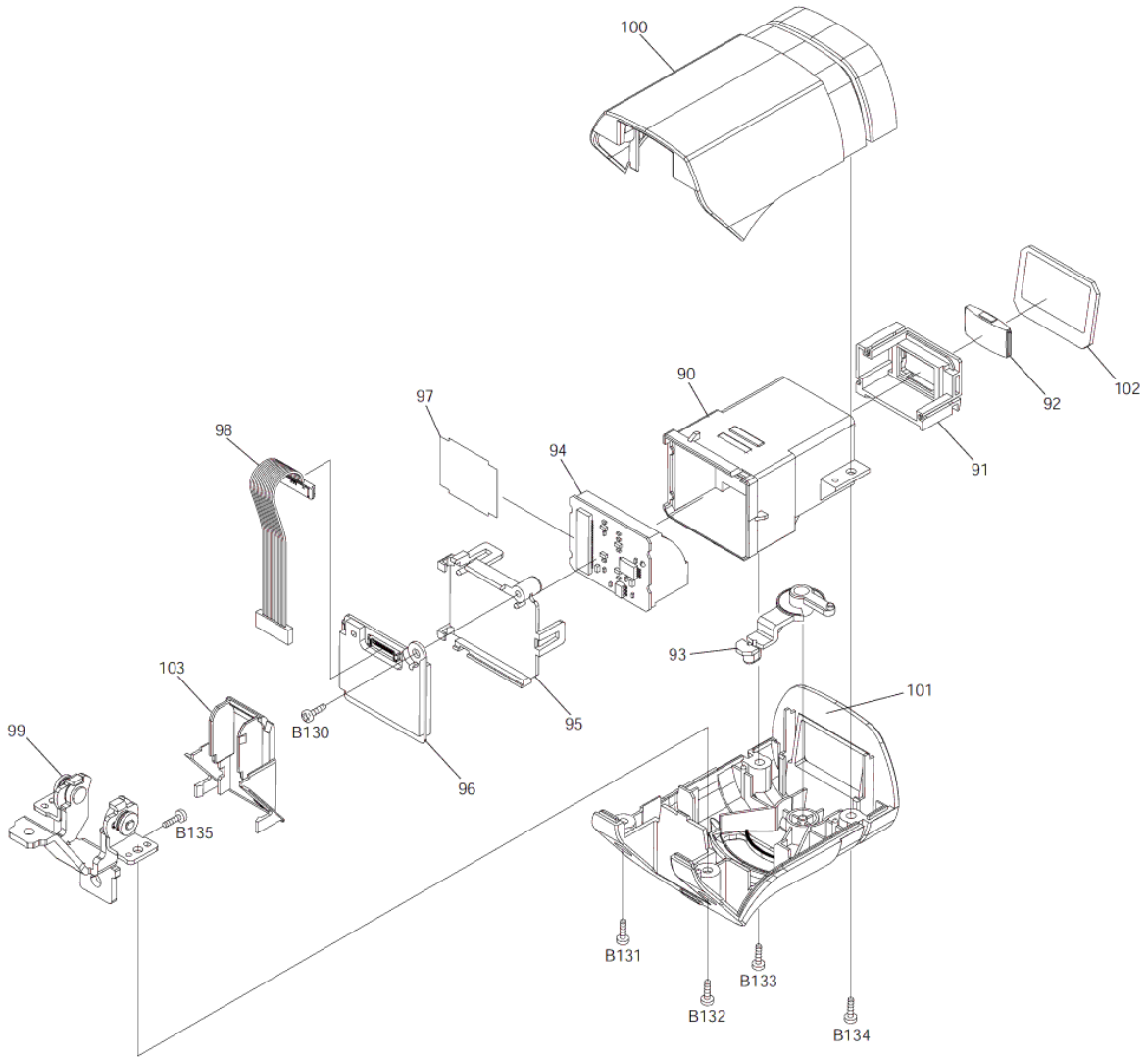
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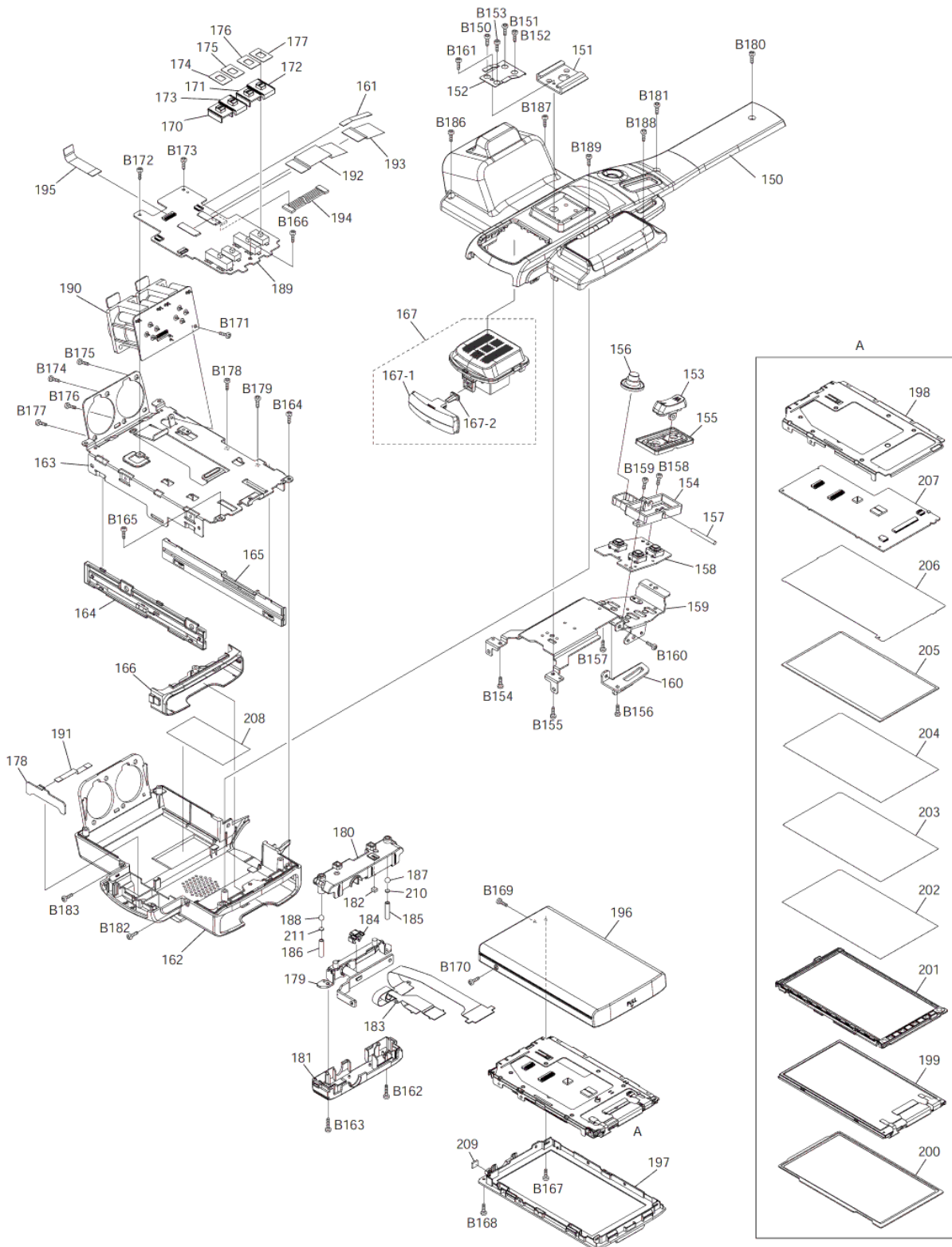
**Model No. : HDC-Z10000P/E/GC/GK Rear Case Section**



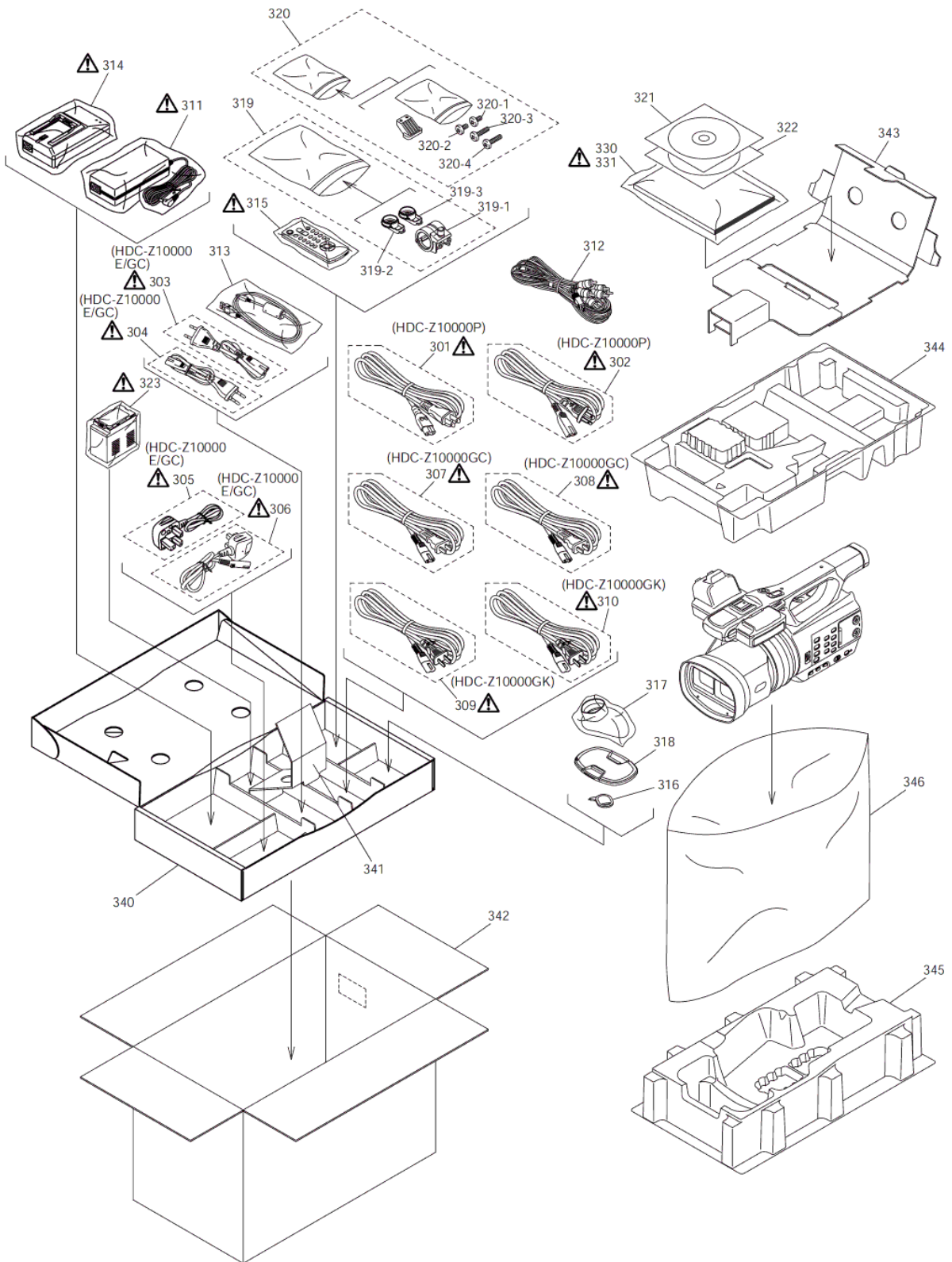
**Model No. : HDC-Z1000P/E/GC/GK EVF Section**



**Model No. : HDC-Z1000P/E/GC/GK Handle Section**



**Model No. : HDC-Z10000P/E/GC/GK Packing Parts and Accessories Section**



## Model No. : HDC-Z1000P/E/GC/GK Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		1	VEP03J34A	MAIN P.C.B. UNIT	1	(RTL)E.S.D.
		2	VWJ2306	SD FPC	1	
		3	VEE1K90	WIRE	1	
		4	VGQ9343	BARRIER C	1	
		5	VYK5H10	HANDLE CASE L UNIT	1	
		6	VMP0B84	SPEAKER ANGLE	1	
		7	L0AA02A00112	SPEAKER UNIT	1	
		8	VGQ1A18	COOLING SHEET L	1	
		9	VGQ1A18	COOLING SHEET L	1	
		10	VGQ1A19	COOLING SHEET S	1	
		11	VGQ1A19	COOLING SHEET S	1	
		12	VEP03J37A	USB AV P.C.B. UNIT	1	
		13	VEP03J39A	HDMI FPC UNIT	1	
		14	VMP0B79	REAR JACK FRAME	1	
		15	VWJ2302	USB AV FPC	1	
		16	VSC6398	RADIATION PLATE	1	
		17	VGQ1A18	COOLING SHEET L	1	
		18	VEP20D88B	WIRED REMOTE P.C.B. UNIT	1	(RTL)E.S.D.
		19	VMP0B80	REMOTE JACK FRAME	1	
		20	VWJ2293	WIRED REMOTE FFC	1	
		21	VHN0382	M6 NUT	1	
		25	VYK5U41	3D LENS UNIT	1	
		25-1	VYK5H19	LENS COVER UNIT	1	
		25-2	VKM9704	LENS MASK	1	
		25-3	VYK5G86	FRONT CASE R UNIT	1	
		25-4	VYK5G85	FRONT CASE L UNIT	1	
		25-5	VKM9703	FRONT CASE T	1	
		25-6	L6FAYYYD0028	DC FAN MOTOR	1	
		25-7	VYK5G94	MF UNIT	1	
		26	VYK5K85	FRAME/REAR(1) UNIT	1	
		27	VGQ1C97	MOS PCB CUSHION	1	
		28	VGQ1C86	LENS FPC CUSHION	1	
		B1	VHD1907	SCREW	1	
		B2	VHD1907	SCREW	1	
		B3	VHD1907	SCREW	1	
		B4	VHD1907	SCREW	1	
		B5	XQN2+B5FJK	SCREW	1	
		B6	VHD1907	SCREW	1	
		B7	VHD1907	SCREW	1	
		B8	XQN2+B4FJK	SCREW	1	
		B9	XQN2+B4FJK	SCREW	1	
		B10	XQN2+B4FJK	SCREW	1	
		B11	XQN2+B5FJK	SCREW	1	
		B12	XQN2+B5FJK	SCREW	1	
		B13	XQN2+B5FJK	SCREW	1	
		B14	XQN2+B5FJK	SCREW	1	
		B15	XQN2+B5FJK	SCREW	1	
		B16	XQN2+B5FJK	SCREW	1	
		B18	XQN2+B5FJK	SCREW	1	
		B19	XQN2+B5FJK	SCREW	1	
		B20	XQN2+B5FJK	SCREW	1	
		B21	XQN2+B5FJK	SCREW	1	
		B22	XQN2+B5FJK	SCREW	1	
		B23	XQN2+B5FJK	SCREW	1	
		B24	XQN2+B5FJK	SCREW	1	
		B25	VHD1907	SCREW	1	
		B26	VHD1907	SCREW	1	
		B27	VHD1907	SCREW	1	
		B28	VHD1907	SCREW	1	
		B29	XQN2+B75FJK	SCREW	1	
		B30	XQN2+B5FJK	SCREW	1	
		B31	VHD1411	SCREW	1	

## Model No. : HDC-Z1000P/E/GC/GK Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		B32	VHD1411	SCREW	1	
		B33	VHD1411	SCREW	1	
		B34	VHD1411	SCREW	1	
		B58	XQN2+BJ5FJK	SCREW	1	
		B59	XQN2+BJ12FJK	SCREW	1	
		B60	XQN2+BJ12FJK	SCREW	1	
		B61	XQN2+BJ12FJK	SCREW	1	
		B62	XQN2+BJ12FJK	SCREW	1	
		B63	XQN2+B5FJK	SCREW	1	
		B64	XQN2+B5FJK	SCREW	1	
		B65	XQN2+B5FJK	SCREW	1	
		B66	VHD1786	SCREW	1	
		B67	VHD1786	SCREW	1	
		B68	VHD1786	SCREW	1	
		B69	VHD1786	SCREW	1	
		B110	XQN2+B5FJK	SCREW	1	
		B111	XQN2+B5FJK	SCREW	1	
		B184	XQN2+B8FJK	SCREW	1	
		B185	XQN2+B8FJK	SCREW	1	
		30	VYK5H09	SIDE CASE R (1)UNIT	1	
		31	VGU0K96	AUDIO VR KNOB	1	
		32	VGU0K96	AUDIO VR KNOB	1	
		33	VGQ1A44	TRIANGLE SHEET	1	
		34	VGQ1A44	TRIANGLE SHEET	1	
		35	VEP20D82A	SIDE R OP P.C.B. UNIT	1	(RTL)E.S.D.
		36	VGQ1A15	DIAL HOLDER	1	
		37	VEP20D93A	DIAL P.C.B. UNIT	1	(RTL)
		38	VWJ2297	CONVERGENCE FFC	1	
		39	VGU0L55	CONVERGENCE DIAL	1	
		40	VWJ2295	SIDE R OP FFC	1	
		41	VGQ1C98	USER BUTTON SHEET	1	
		B40	XQN14+B4FN	SCREW	1	
		B41	XQN14+B4FN	SCREW	1	
		B42	XQN16+BJ4FN	SCREW	1	
		B43	XQN2+BJ5FN	SCREW	1	
		B44	XQN2+BJ5FN	SCREW	1	
		B45	XQN2+BJ5FN	SCREW	1	
		B46	XQN2+BJ5FN	SCREW	1	
		B47	XQN2+BJ5FN	SCREW	1	
		B48	XQN2+BJ5FN	SCREW	1	
		B49	XQN2+BJ5FN	SCREW	1	
		B50	XQN2+BJ5FN	SCREW	1	
		B51	XQN2+BJ5FN	SCREW	1	
		B52	XQN2+BJ5FN	SCREW	1	
		B53	XQN2+BJ5FN	SCREW	1	
		B54	XQN2+BJ5FN	SCREW	1	
		B55	XQN2+BJ5FN	SCREW	1	
		B56	XQN2+BJ5FJK	SCREW	1	
		B57	XQN2+BJ5FJK	SCREW	1	
		50	VYK5H12	SIDE CASE L (1)UNIT	1	
		51	VKM9699	GRIP CASE	1	
		52	VGQ0Z95	PW BASE	1	
		53	VGU0K87	PW LEVER	1	
		54	VGU7577	S/S BUTTON	1	
		55	VGU0K88	PW LOCK BUTTON	1	
		56	VMB4559	PW LOCK SPRING	1	
		57	VGQ0Z96	LEVER PIECE	1	
		58	VGQ1A90	POLY WASHER	1	
		59	VGL1404	PW PANELIGHT	1	
		60	VEP20D84A	POWER SS P.C.B. UNIT	1	(RTL)E.S.D.
		61	VWJ2289	ZOOM PHOTO FFC	1	
		62	VMP0B68	BELT ANGLE R	1	

## Model No. : HDC-Z10000P/E/GC/GK Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		63	VGQ0Z94	ZOOM BASE	1	
		64	VGU0K86	PHOTO SHOT BUTTON	1	
		65	VMP0B69	PHOTO EARTH PLATE	1	
		66	VGU9215	ZOOM LEVER	1	
		67	VYQ5881	ZOOM SW 1 UNIT	1	
		68	VEP20D86A	ZOOM PHOTO P.C.B. UNIT	1	(RTL)
		69	VWJ2289	ZOOM PHOTO FFC	1	
		70	VMT2106	ZOOM LEVER CUSSION (A)	1	
		71	VMT2107	ZOOM LEVER CUSSION (B)	1	
		72	VGQ1B93	GRIP CASE AL SHEET	1	
		73	VYC1074	GRIP BELT	1	
		74	VGQ1C99	PHOTO CUSHION	1	
		B70	XQN2+BJ5FJK	SCREW	1	
		B71	XQN2+BJ5FJK	SCREW	1	
		B72	XQN2+BJ5FJK	SCREW	1	
		B73	XQN16+BJ4FN	SCREW	1	
		B74	XQN16+BJ4FN	SCREW	1	
		B75	XQN2+BJ5FJK	SCREW	1	
		B76	XQN2+BJ5FJK	SCREW	1	
		B77	XQN2+BJ5FJK	SCREW	1	
		B78	XQN2+BJ5FJK	SCREW	1	
		B79	XQN2+BJ5FJK	SCREW	1	
		B80	XQN2+BJ5FJK	SCREW	1	
		B81	XQN2+BJ5FJK	SCREW	1	
		B82	XQN2+BJ5FJK	SCREW	1	
		B83	XQN2+BJ5FJK	SCREW	1	
		B84	XQN2+BJ5FJK	SCREW	1	
		B85	XQN2+BJ5FJK	SCREW	1	
		B86	XQN2+BJ5FJK	SCREW	1	
		B87	XQN2+BJ5FJK	SCREW	1	
		B88	XQN2+BJ5FJK	SCREW	1	
		B89	XQN2+B4FJK	SCREW	1	
		B90	XQN2+B5FJK	SCREW	1	
		B91	XQN2+B5FJK	SCREW	1	
		B92	XQN2+B5FJK	SCREW	1	
		B93	XQN2+B5FJK	SCREW	1	
		B94	XQN2+B5FJK	SCREW	1	
		80	VEP03J35A	SD HOLDER P.C.B. UNIT	1	(RTL)E.S.D.
		81	VEP01A61A	BATTERY CATCHER P.C.B. UNIT	1	(RTL)E.S.D.
		82	VWJ2294	BATTERY CATCHER FFC	1	
		B35	XQN2+BJ4FJK	SCREW	1	
		B36	XQN2+BJ4FJK	SCREW	1	
		B112	XQN2+B5FJK	SCREW	1	
		B113	XQN2+B5FJK	SCREW	1	
		B114	XQN2+B5FJK	SCREW	1	
		B115	XQN2+B5FJK	SCREW	1	
		B116	XQN2+B5FJK	SCREW	1	
		B117	XQN2+BJ5FJK	SCREW	1	
		B118	XQN2+BJ5FJK	SCREW	1	
		90	VGQ1A22	EVF MODULE HOLDER	1	
		91	VGQ1A23	EVF LENS HOLDER	1	
		92	VDL1906	EVF LENS	1	
		93	VGU0K97	EVF SLIDE LEVER	1	
		94	L5EDDY00171	EVF MODULE	1	
		95	VGQ1A21	EVF PCB HOLDER	1	
		96	VEP29233A	EVF P.C.B. UNIT	1	(RTL)E.S.D.
		97	VWJ2298	EVF FFC	1	
		98	VWK0194	EVF SLIM WIRE UNIT	1	
		99	VXD0623	EVF SHAFT UNIT	1	
		100	VKM9717	EVF CASE T	1	
		101	VKM9718	EVF CASE B	1	
		102	VKW3527	EVF PANEL	1	










## Model No. : HDC-Z1000P/E/GC/GK Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		103	VGQ1A20	EVF WIRE GUIDE	1	
		B130	XQN2+BJ5FJK	SCREW	1	
		B131	XQN2+BJ5FJK	SCREW	1	
		B132	XQN2+BJ5FJK	SCREW	1	
		B133	XQN2+BJ5FJK	SCREW	1	
		B134	XQN2+BJ5FJK	SCREW	1	
		B135	XQN2+B5FJK	SCREW	1	
		150	VYK5H18	HANDLE T (1)UNIT	1	
		151	VMP2407	SHOE HOLD PLATE	1	
		152	VMC1288	SHOE SPRING	1	
		153	VGU9208	SUB ZOOM BUTTON	1	
		154	VGQ1A17-1	SUB ZOOM CASE	1	
		155	VMG1480	SUB ZOOM BUTTON RUBBER	1	
		156	VGU9988	REC BUTTON	1	
		157	VMS8226	SUB ZOOM SHAFT	1	
		158	VEP20D85A	SUB SS P.C.B. UNIT	1	(RTL)
		159	VMP0B81	HANDLE MOUNT PLATE	1	
		160	VMP0B82	SHOULDER BELT ANGLE F	1	
		161	VWJ2286	SUB SS ZOOM FFC	1	
		162	VKM9711	HANDLE CASE B	1	
		163	VMP0B71	LCD GUIDE FRAME	1	
		164	VGQ1A04	LCD GUIDE RAIL F	1	
		165	VGQ1A05	LCD GUIDE RAIL R	1	
		166	VGQ1A06	LCD GUIDE HOLDER	1	
		167	VYK5H03	MIC UNIT	1	
		167-1	VKW3510	SENSOR WINDOW	1	
		167-2	VGL1405	TALLY PANELIGHT	1	
		170	VGU0K89	XLR SW KNOB A	1	
		171	VGU0K89	XLR SW KNOB A	1	
		172	VGU0K90	XLR SW KNOB B	1	
		173	VGU0K90	XLR SW KNOB B	1	
		174	VGH5275	SW KNOB SHEET	1	
		175	VGH5275	SW KNOB SHEET	1	
		176	VGH5275	SW KNOB SHEET	1	
		177	VGH5275	SW KNOB SHEET	1	
		178	VEP002J6A	LED P.C.B. UNIT	1	E.S.D.
		179	VXD0622	SHAFT UNIT	1	
		180	VKM9708	HINGE COVER T	1	
		181	VKM9709	HINGE COVER B	1	
		182	K9Z200000886	MAGNET	1	
		183	VWJ2305	MONITOR FPC	1	
		184	VGQ1A07	FPC HOLD PIECE	1	
		185	VMB4561	BALL SPRING	1	
		186	VMB4561	BALL SPRING	1	
		187	VDB1769	STAINLESS BALL	1	
		188	VDB1769	STAINLESS BALL	1	
		189	VEP20D83A	HANDLE OP P.C.B. UNIT	1	(RTL)E.S.D.
		190	VEP04985A	XLR P.C.B. UNIT	1	(RTL)E.S.D.
		191	VWJ2284	LED FFC	1	
		192	VWJ2290	HANDLE OP A FFC	1	
		193	VWJ2291	HANDLE OP B FFC	1	
		194	VWK0195	HANDLE SLIM WIRE UNIT	1	
		195	VWJ2287	XLR FFC	1	
		196	VKM9712-2	LCD CASE T	1	
		197	VKM9713-1	LCD CASE B	1	
		198	VMP0B78	LCD FRAME	1	
		199	VYK5H06	LCD PANEL UNIT	1	
		200	VGQ1A31	TP SPACER	1	
		201	VGQ1A34	LGP HOLDER	1	
		202	VGL1400	PRISM SHEET(A)	1	
		203	VGL1401	PRISM SHEET(B)	1	
		204	VGL1402	DIFFUSION SHEET	1	

## Model No. : HDC-Z1000P/E/GC/GK Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		205	VKW3504	LIGHT GUIDE PLATE	1	
		206	VGL1403	REFLECTION SHEET	1	
		207	VEP26345A	MONITOR P.C.B. UNIT	1	(RTL)E.S.D.
		208	VGQ1A72-1	FPC BRIDGE SHEET	1	
		209	K9ZZ00000886	MAGNET	1	
		210	VMP0C65	BALL SPACER	1	
		211	VMP0C65	BALL SPACER	1	
		B150	XQS2+A6FJK	SCREW	1	
		B151	XQS2+A6FJK	SCREW	1	
		B152	XQS2+A6FJK	SCREW	1	
		B153	XQS2+A6FJK	SCREW	1	
		B154	XQN2+BJ4FN	SCREW	1	
		B155	XQN2+BJ4FN	SCREW	1	
		B156	XQN2+BJ4FN	SCREW	1	
		B157	XQN2+BJ4FN	SCREW	1	
		B158	VHD1411	SCREW	1	
		B159	VHD1411	SCREW	1	
		B160	VHD1411	SCREW	1	
		B161	XQN2+B5FJK	SCREW	1	
		B162	XQN16+BJ8FN	SCREW	1	
		B163	XQN16+BJ8FN	SCREW	1	
		B164	XQN2+BJ4FN	SCREW	1	
		B165	XQN2+BJ4FN	SCREW	1	
		B166	XQN2+BJ5FJK	SCREW	1	
		B167	XQN14+BJ4FJK	SCREW	1	
		B168	XQN14+BJ4FJK	SCREW	1	
		B169	VHD1687	SCREW	1	
		B170	VHD1687	SCREW	1	
		B171	VHD1919	SCREW	1	
		B172	VHD1919	SCREW	1	
		B173	VHD1919	SCREW	1	
		B174	XQN26+B6FJK	SCREW	1	
		B175	XQN26+B6FJK	SCREW	1	
		B176	XQN26+B6FJK	SCREW	1	
		B177	XQN26+B6FJK	SCREW	1	
		B178	XQN2+B5FJK	SCREW	1	
		B179	XQN2+B5FJK	SCREW	1	
		B180	XQN2+B5FJK	SCREW	1	
		B181	XQN2+B5FJK	SCREW	1	
		B182	XQN2+B5FJK	SCREW	1	
		B183	XQN2+B5FJK	SCREW	1	
		B186	XQN2+BJ5FJK	SCREW	1	
		B187	XQN2+BJ5FJK	SCREW	1	
		B188	XQN2+BJ5FJK	SCREW	1	
		B189	XQN2+BJ5FJK	SCREW	1	
	⚠	301	K2CA2CA00025	AC CABLE	1	P
	⚠	302	K2CB2CB00022	AC CABLE	1	P
	⚠	303	K2CQ29A00002	AC CABLE	1	E,GC
	⚠	304	K2CQ29A00002	AC CABLE	1	E,GC
	⚠	305	K2CT39A00002	AC CABLE	1	E,GC
	⚠	306	K2CT39A00002	AC CABLE	1	E,GC
	⚠	307	K2CJ29A00002	AC CABLE	1	GC
	⚠	308	K2CJ29A00002	AC CABLE	1	GC
	⚠	309	K2CA2YY00070	AC CABLE	1	GK
	⚠	310	K2CA2YY00070	AC CABLE	1	GK
	⚠	311	VSK0725A	AC ADAPTOR	1	P
	⚠	311	VSK0726A	AC ADAPTOR	1	E,GC
	⚠	311	VSK0723A	AC ADAPTOR	1	GK
		312	K1HY12YY0008	MULTI D/RCA CABLE	1	
		313	K2KYYYY00141	USB CABLE	1	
	⚠	314	DE-A88BB/S	BATTERY CHARGER	1	P
	⚠	314	DE-A88DC/S	BATTERY CHARGER	1	E,GC

## Model No. : HDC-Z1000P/E/GC/GK Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		314	DE-A88CB/S	BATTERY CHARGER	1	GK
		315	N2QAEC000024	REMOTE CONTROL UNIT	1	
		316	VGQ0C14	TOUCH PEN	1	
		317	VMG2030	EYE CUP	1	
		318	VYK5H20	LENS CAP	1	
		319	VYC1083	MIC HOLDER UNIT	1	
		319-1	VYC1079	MIC HOLDER	1	
		319-2	VJF1468	XLR CAP	1	
		319-3	VJF1468	XLR CAP	1	
		320	VYC0890	MIC HOLDER ADAPTOR UNIT	1	
		320-1	XSB4+6FJK	SCREW	1	
		320-2	XSB4+6FJK	SCREW	1	
		320-3	XSB4+12FJK	SCREW	1	
		320-4	XSB4+12FJK	SCREW	1	
		321	VFF0887-S	CD-ROM	1	P, E, GC
		321	VFF0888-S	CD-ROM	1	GK
		322	VFF0879	CD-ROM(O/I)	1	E
		322	VFF0880	CD-ROM(O/I)	1	GC
		323	-----	BATTERY PACK	1	
		330	VPF1294	BAG, POLYETHYLENE	1	
		331	VQT3U98	OPERATING INSTRUCTIONS (ENGLISH)	1	P (ENGLISH)
		331	VQT3U99	OPERATING INSTRUCTIONS (SPANISH)	1	P (SPANISH)
		331	VQT3V00	OPERATING INSTRUCTIONS (GERMAN, FRENCH, ITALIAN, DUTCH)	1	E (GERMAN, FRENCH, ITALIAN, DUTCH)
		331	VQT3V01	OPERATING INSTRUCTIONS (ENGLISH, SPANISH, RUSSIAN)	1	E (ENGLISH, SPANISH, RUSSIAN)
		331	VQT3V09	OPERATING INSTRUCTIONS (ENGLISH, CHINESE (TRADITIONAL), ARABIA)	1	GC (ENGLISH, CHINESE (TRADITIONAL), ARABIA)
		331	VQT3V13	OPERATING INSTRUCTIONS (CHINESE (SIMPLIFIED))	1	GK (CHINESE (SIMPLIFIED))
		340	VPK5145	ACCESSORY BOX	1	
		341	VPN7319	PAD (ACCESSORY BOX)	1	
		342	VPG3A83	PACKING CASE	1	P
		342	VPG3A84	PACKING CASE	1	E, GC
		342	VYQ7196	PACKING CASE UNIT	1	GK
		343	VPN7318	PAD	1	
		344	VPN7316	CUSHION (TOP)	1	
		345	VPN7317	CUSHION (BOTTOM)	1	
		346	VPF1450	PROTECT BAG	1	