

Panasonic®**ORDER NO. VM1310012CE**

Service Manual

High Definition Video Camera

Model No. **HC-MDH2GC**
HC-MDH2GK
HC-MDH2MGC

Colour
(K).....Black Type

AVCHD™ **HDMI** **SD** **DOLBY**
Progressive **XC** **DIGITAL**



⚠ 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.

- 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.
- When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
- After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
- After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.2 Leakage Current Cold Check

- Unplug the AC cord and connect a jumper between the two prongs on the plug.
- 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 M Ω and 5.2 M Ω . 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)

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

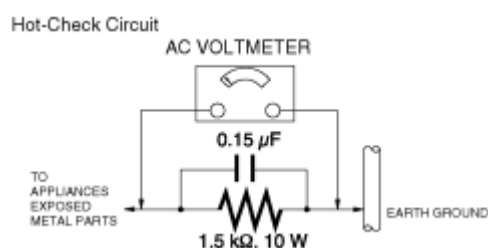


Figure. 1

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 Caution for AC Cord (For GC)

2.2.1 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.

2.2.2 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.

2.2.2.1 Important

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

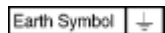
Blue	Neutral
Brown	Live

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.

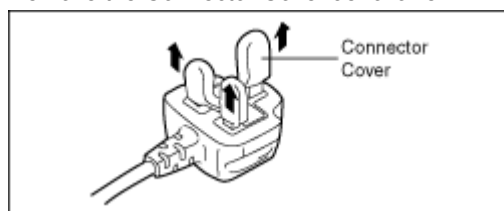
The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

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.



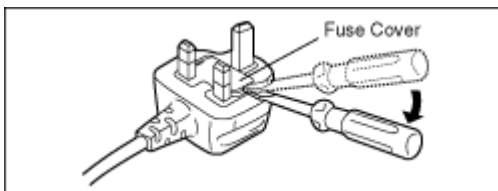
2.2.2.2 Before Use

Remove the Connector Cover as follows.

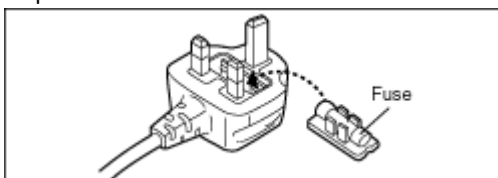


2.2.2.3 How to Replace the Fuse

1. Remove the Fuse Cover with a screwdriver.



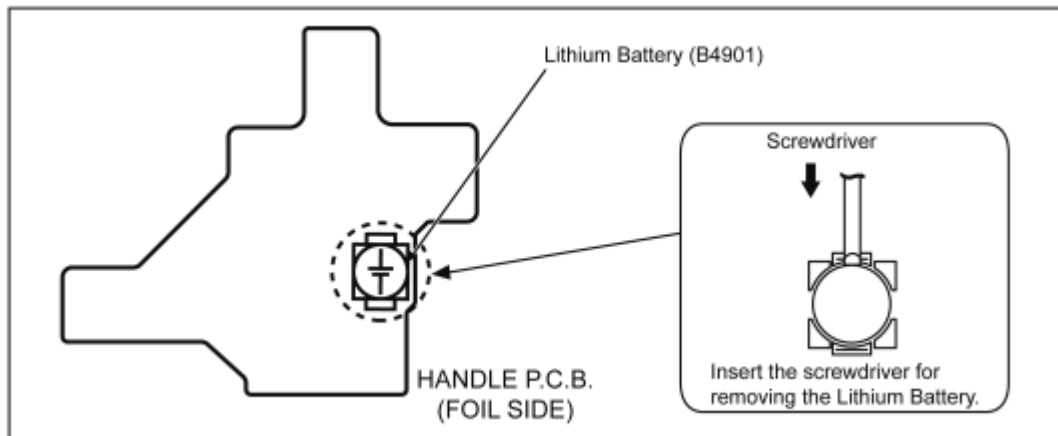
2. Replace the fuse and attach the Fuse cover.



2.3 How to Replace the Lithium Battery

2.3.1 Replacement Procedure

1. Remove the HANDLE P.C.B.. (Refer to Disassembly Procedures.)
2. Remove the Lithium battery (Ref. No. "B4901" at foil side of HANDLE P.C.B.) and then replace it into new one



NOTE:

This Lithium battery is a critical component.

It must never be subjected to excessive heat or discharge.

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

Replacement batteries must be of same type and manufacture.

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

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

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

(For English)

CAUTION

Danger of explosion if battery is incorrectly replaced.

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

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

(For German)

ACHTUNG

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

Behandeln Sie gebrauchte Batterien nach den Anweisungen des Herstellers.

(For French)

MISE EN GARDE

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

NOTE:

Above caution is applicable for a battery pack which is for HC-MDH2/MDH2M series, as well.

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.
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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.
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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 Caution for AC Cord (For GC)

2.2.1 Information for Your Safety

IMPORTANT

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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

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2.2.2 Caution for AC Mains Lead

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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.

2.2.2.1 Important

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

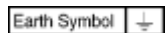
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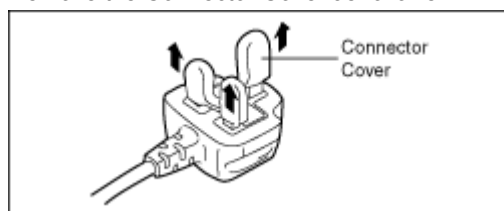
The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

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.



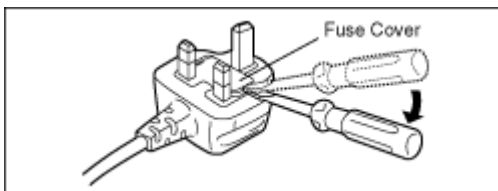
2.2.2.2 Before Use

Remove the Connector Cover as follows.

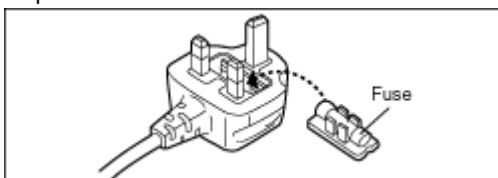


2.2.2.3 How to Replace the Fuse

1. Remove the Fuse Cover with a screwdriver.



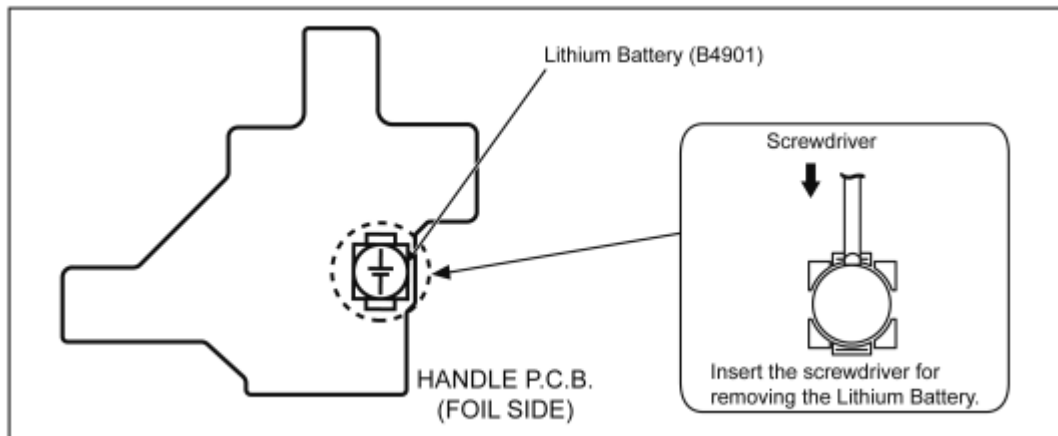
2. Replace the fuse and attach the Fuse cover.



2.3 How to Replace the Lithium Battery

2.3.1 Replacement Procedure

1. Remove the HANDLE P.C.B.. (Refer to Disassembly Procedures.)
2. Remove the Lithium battery (Ref. No. "B4901" at foil side of HANDLE P.C.B.) and then replace it into new one



NOTE:

This Lithium battery is a critical component.

It must never be subjected to excessive heat or discharge.

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

Replacement batteries must be of same type and manufacture.

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

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

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

(For English)

CAUTION

Danger of explosion if battery is incorrectly replaced.

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

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

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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.

2.2.2.1 Important

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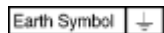
Blue	Neutral
Brown	Live

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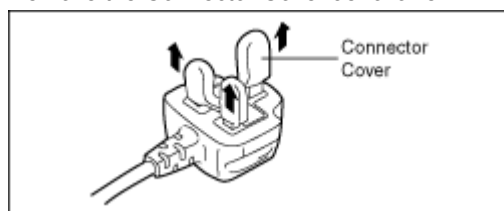
The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

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.



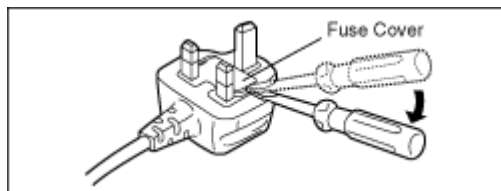
2.2.2.2 Before Use

Remove the Connector Cover as follows.

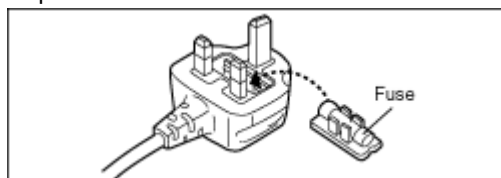


2.2.2.3 How to Replace the Fuse

1. Remove the Fuse Cover with a screwdriver.



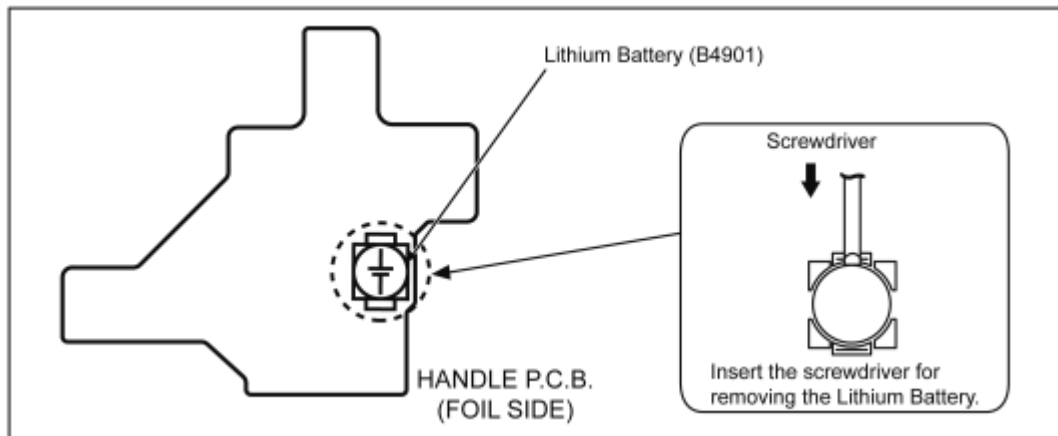
2. Replace the fuse and attach the Fuse cover.



2.3 How to Replace the Lithium Battery

2.3.1 Replacement Procedure

1. Remove the HANDLE P.C.B.. (Refer to Disassembly Procedures.)
2. Remove the Lithium battery (Ref. No. "B4901" at foil side of HANDLE P.C.B.) and then replace it into new one



NOTE:

This Lithium battery is a critical component.

It must never be subjected to excessive heat or discharge.

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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.

NOTE:

Above caution is applicable for a battery pack which is for HC-MDH2/MDH2M series, as well.

3 Service Navigation

3.1 Introduction

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

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

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

3.2 General Description About Lead Free Solder (PbF)

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

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

Distinction of P.C.B. Lead Free Solder being used

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

There are two kinds of HC-MDH2/MDH2M.


- a) HC-MDH2GK
- b) HC-MDH2GC, MDH2MGC

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

3.3.1 Defining methods:

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

a) **HC-MDH2GK**
The nameplate for this model shows the following Safety registration mark.



b) **HC-MDH2GC, MDH2MGC**
The nameplate for these models do not show any above Safety registration mark.

NOTE:

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

3.4 Formatting

The page number in this chapter does not show the page number of this service manual.

[FORMAT MEDIA]

The SD cards, built-in memory or external drive can be formatted.

- Please be aware that if a medium is formatted, then all the data recorded on the medium will be erased and cannot be restored. Back up important data on a PC, DVD disc etc. (→ 96)

HC-MDH2

[SD CARD 1]/[SD CARD 2]/[EXTERNAL]*

HC-MDH2M

[Built-inMemory]/[SD CARD]/[EXTERNAL]*

* Displayed when connecting an external drive. (→ 82)

- When formatting is complete, select [EXIT] and press the button in the centre to exit the message screen.
- Perform a physical formatting of the SD card when the SD card is to be disposed/ transferred. (→ 131)
- **HC-MDH2M**
Perform a physical formatting of the built-in memory when this unit is to be disposed/ transferred. (→ 129)

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

Use this unit to format media.

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

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

HC-MDH2M

When disposing of or giving away this unit, note that:

- Formatting and deletion simply change the file management information and cannot be used to completely erase the data in built-in memory of this unit. The data can be recovered using commercially available software or the like.
- We recommend that you physically format the built-in memory before disposing of or giving away this unit.
To physically format the built-in memory, connect the unit via the AC adaptor, select [OTHER FUNCTION] → [FORMAT MEDIA] → [Built-inMemory] from the menu, and then press and hold the recording start/stop button on the screen below for about 3 seconds. When the built-in memory data deletion screen appears, select [YES], and then follow the on-screen instructions.



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

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

HC-MDH2

To physically format the SD card, connect the unit via the AC adaptor, select

[OTHER FUNCTION] → [FORMAT MEDIA] → [SD CARD 1] or [SD CARD 2] from the menu, and then press and hold the recording start/stop button or sub recording start/stop button on the screen below for about 3 seconds. When the SD card data deletion screen appears, select [YES], and then follow the on-screen instructions.



HC-MDH2M

To physically format the SD card, connect the unit via the AC adaptor, select

[OTHER FUNCTION] → [FORMAT MEDIA] → [SD CARD] from the menu, and then press and hold the recording start/stop button on the screen below for about 3 seconds. When the SD card data deletion screen appears, select [YES], and then follow the on-screen instructions.



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

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

When replacing the CSP/BGA/QFN type IC mounted on the P.C.B., the problem of IC crack or foil pattern breaking in the P.C.B.

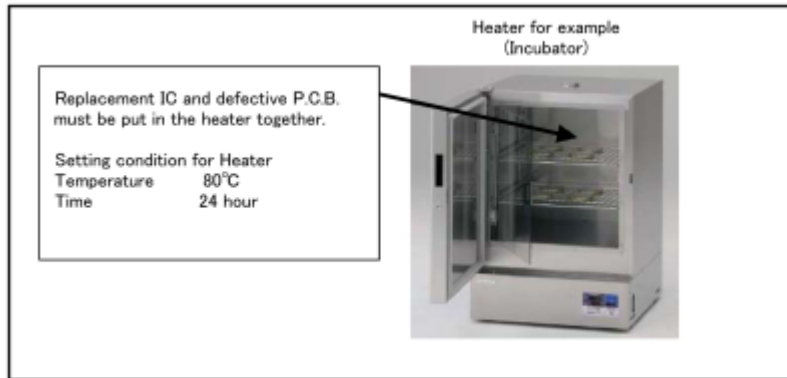
might sometimes occur by rapid heating.

In order to improve the success rate of IC replacement for repair, it would be required to work out baking of replacement IC and defective P.C.B. before replacing IC.

Please refer the way of baking as follows.

Replacement IC and defective P.C.B. must be put in the heater together.

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



4 Specifications

The page number in this chapter does not show the page number of this service manual.

High Definition Video Camera Information for your safety

Power source:
DC 9.3 V (When using AC adaptor)
DC 7.2 V (When using battery)

Power consumption:
Recording: 6.7 W
Charging: 10.7 W

Motion picture recording format:

AVCHD format version 2.0 compliant (AVCHD Progressive)

Motion picture compression:

MPEG-4 AVC/H.264

Audio compression:

Dolby® Digital (2 ch)

Recording mode and transfer rate:

[1080/50p]; Maximum 28 Mbps (VBR)
[PH 1080/50]; Maximum 24 Mbps (VBR)
[HA 1080/50]; Average 17 Mbps (VBR)
[HG 1080/50]; Average 13 Mbps (VBR)
[HE 1080/50]; Average 5 Mbps (VBR)
[SA 576/50]; Average 9 Mbps (VBR)
[SX 576/50]; Average 4.5 Mbps (VBR)
Refer to "Recording formats/approximate recordable time" for the picture size and recordable time of a motion picture.

Still picture recording format:

JPEG (Design rule for Camera File system, based on Exif 2.2 standard)
Refer to "Approximate number of recordable pictures" for picture size of a still picture and number of recordable pictures.

Recording media:

SD Memory Card
SDHC Memory Card
SDXC Memory Card

Refer to "Cards that you can use with this unit" for details on SD cards usable in this unit.

HC-MDH2M

Built-in memory: 32 GB

Image sensor:

1/2.33 type (1/2.33") 1MOS image sensor
Total: 17520 K
Effective pixels:
Motion picture: 4140 K (16:9), 3110 K (4:3)
Still picture: 3240 K (4:3), 3240 K (3:2),
4140 K (16:9)

* When Level Shot Function is set to off

Lens:

Auto iris, 21× optical zoom, F1.8 to F3.5
Focal length;
2.82 mm to 59.2 mm
Macro (Full range AF)
35 mm equivalent;
Motion picture;
28 mm to 729.6 mm (16:9),
36.2 mm to 893 mm (4:3)
Still picture;
33.9 mm to 712.6 mm (4:3),
33.2 mm to 697.6 mm (3:2),
28 mm to 729.6 mm (16:9)
Minimum focus distance;
Normal; Approx. 3.0 cm (Wide)/
Approx. 1.5 m (Tele)
Tele Macro; Approx. 60 cm (Tele)
Intelligent Auto Macro;
Approx. 1 cm (Wide)/Approx. 60 cm (Tele)

Filter diameter:

49 mm

Zoom:

i.Zoom Off 26×, 50× i.Zoom, 60×/1500×
digital zoom
(Using image sensor effective area)

Image stabilizer function:

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

Monitor:

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

Viewfinder:

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

Microphone:

Stereo (with a Zoom Microphone)

Minimum required illumination:

Approx. 2 lx (1/25 with Low Light Mode in the Scene Mode)

Approx. 1 lx with the Colour Night View function

AV connector video output level:
1.0 Vp-p, 75 Ω, PAL system

Component connector video output level:

Y: 1.0 Vp-p, 75 Ω

Pb: 0.7 Vp-p, 75 Ω

Pr: 0.7 Vp-p, 75 Ω

HDMI connector video output level:

HDMI™ Type A 1080p/1080i/576p

AV connector audio output level (Line):

316 mV, 600 Ω, 2 ch

Headphone output:

77 mV, 32 Ω (Stereo mini jack)

HDMI connector audio output level:

Dolby Digital/Linear PCM

MIC input:

-60 dBV (Mic sensitivity -40 dB equivalent,

0 dB=1 V/Pa, 1 kHz)

(Stereo mini jack)

USB:

Reader function

SD card; Read only (No copyright protection support)

HC-MDH2M

Built-in memory; Read only

Hi-Speed USB (USB 2.0),

[HOST]; USB terminal Type A

[DEVICE]; USB terminal Type Mini B

USB host function (for external drive)

Dimensions:

205 mm (W)×217 mm (H)×479 mm (D)
(including projecting parts)

Mass:

Approx. 2270 g

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

Mass in operation:

Approx. 2400 g

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

Operating temperature:

0 °C to 40 °C

Operating humidity:

10%RH to 80%RH

Battery operation time:

See "Charging and recording time"

AC adaptor

Information for your safety

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

Power consumption:
16 W

DC output:
DC 9.3 V, 1.2 A

Dimensions:


52 mm (W)×28 mm (H)×86.3 mm (D)

Mass:

Approx. 115 g

Recording formats/approximate recordable time

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

						
Recording format		[1080/50p]	[PH 1080/50i]	[HA 1080/50i]	[HG 1080/50i]	[HE 1080/50i]
Picture size/ Frame rate		1920×1080/ 50p	1920×1080/ 50i	1920×1080/ 50i	1920×1080/ 50i	1920×1080/ 50i
SD card	4 GB	19 min	21 min	30 min	40 min	1 h 30 min
	16 GB	1 h 20 min	1 h 30 min	2 h	2 h 40 min	6 h 40 min
	64 GB	5 h 20 min	6 h	8 h 30 min	11 h	27 h 30 min
HC-MDH2M Built-in memory	32 GB	2 h 40 min	3 h	4 h 10 min	5 h 30 min	13 h 40 min

- Ⓐ Favours image quality
- Ⓑ Favours Recording time

Recording format		[SA 576/50i]	[SX 576/50i]
Picture size/ Frame rate		720×576/ 50i	720×576/ 50i
SD card	4 GB	1 h	2 h
	16 GB	4 h	8 h
	64 GB	16 h 30 min	33 h
HC-MDH2M Built-in memory	32 GB	8 h	16 h

- "h" is an abbreviation for hour and "min" for minute.
- If recording for long periods, prepare batteries for 3 or 4 times the period you wish to record for. (→ 14)
- The default setting is [HG 1080/50i].
- Maximum continuously recordable time for one scene: 6 hours
- The recording is paused once when the recording time for one scene exceeds 6 hours, and the recording will automatically resume after a few seconds.
- The recordable time may be reduced if recording with a lot of action is recorded or recording of short scene is repeated.
- Use time in the row of 4 GB in above table as a guideline for the time that can be copied onto one DVD disc (4.7 GB).

Approximate number of recordable pictures

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

Picture size	4M		3M	
	6016×3384		4096×2304	
Aspect ratio		16:9		
SD card	4 GB	300	650	3200
	16 GB	1300	2700	12500
	64 GB	5000	10500	52000
HC-MDH2M Built-in memory		32 GB	2700	5000

Picture size	2M		1.5M	
	4480×3360		2784×2088	
Aspect ratio		4:3		
SD card	4 GB	400	1000	28000
	16 GB	1700	4100	117000
	64 GB	7000	16500	475000
HC-MDH2M Built-in memory		32 GB	3800	8000

Picture size	1.5M		1M	
	4752×3168		3456×2304	
Aspect ratio		3:2		
SD card	4 GB	400	750	2200
	16 GB	1700	3100	8500
	64 GB	7000	12500	36000
HC-MDH2M Built-in memory		32 GB	3800	8000

- The number of recordable pictures depends on the subject being recorded.
- Maximum number of recordable pictures that can be displayed is 9999. If the number of recordable pictures exceeds 9999, R 9999+ is displayed. The number will not change when the picture is taken until the number of recordable pictures is 9999 or less.
- The memory capacity indicated on the label of an SD card is the total of the capacity for copyright protection and management and the capacity which can be used on the unit, a PC etc.

Cards that you can use with this unit

Use SD cards conforming to Class 4 or higher of the SD Speed Class Rating* for motion picture recording.

Card type	Capacity
SD Memory Card	512 MB/1 GB/2 GB
SDHC Memory Card	4 GB/8 GB/16 GB/32 GB/64 GB/128 GB/256 GB/512 GB
SDXC Memory Card	48 GB/64 GB

* SD Speed Class Rating is the speed standard regarding continuous writing. Check via the label on the card, etc. e.g.:



- Please check the latest information on the support website below.

http://panasonic.jp/support/global/cs/ie_cam

(This website is in English only.)

- When using an SDHC Memory Card/SDXC Memory Card with other equipment, check the equipment is compatible with these Memory Cards.
- An Eye-Fi X2 series SD card is required to use functions related to Eye-Fi. (→ 93)
- We do not guarantee the operation of SD cards other than the ones above. Further, SD cards with a capacity of less than 32 MB cannot be used for motion picture recording.
- 4 GB or more Memory Cards that do not have the SDHC logo or 48 GB or more Memory Cards that do not have the SDXC logo are not based on SD Memory Card Specifications.

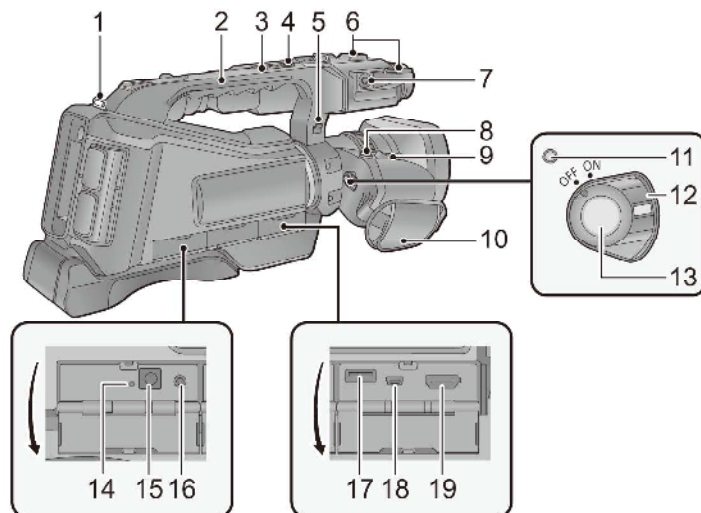
Charging and recording time





■ Charging/Recording time

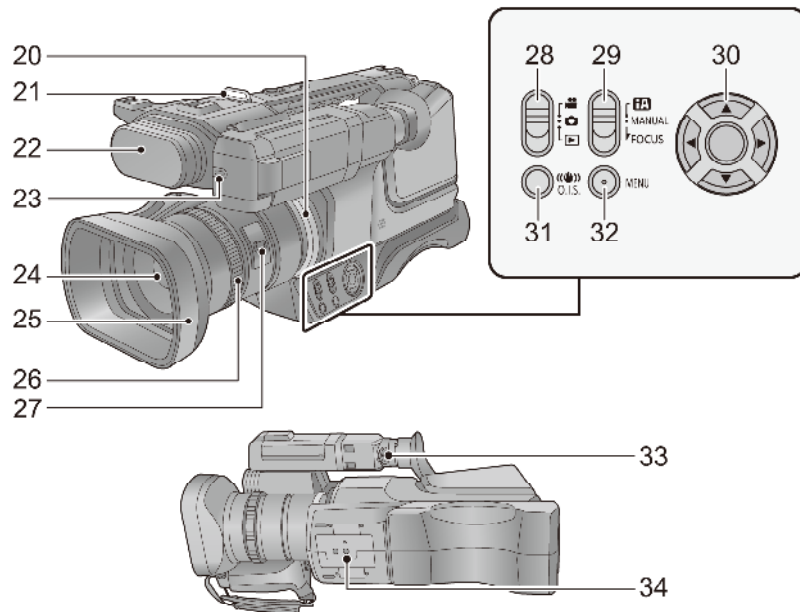
- Temperature: 25 °C/humidity: 60%RH
- When using the viewfinder (times in parentheses are when using the LCD monitor)
- These charging times are for when the unit is turned off.

Battery model number [Voltage/Capacity (minimum)]	Charging time	Recording format	Maximum continuous recordable time	Actual recordable time
Supplied battery [7.2 V/2900 mAh]	4 h	[1080/50p]	5 h 25 min (5 h 10 min)	3 h 20 min (3 h 10 min)
		[PH 1080/50i]	5 h 45 min (5 h 25 min)	3 h 35 min (3 h 20 min)
		[HA 1080/50i]	5 h 45 min (5 h 30 min)	3 h 35 min (3 h 20 min)
		[HG 1080/50i]/ [HE 1080/50i]	5 h 50 min (5 h 30 min)	3 h 35 min (3 h 25 min)
		[SA 576/50i]/ [SX 576/50i]	6 h 10 min (5 h 50 min)	3 h 50 min (3 h 35 min)
		CGA-D54s (optional) [7.2 V/5400 mAh]	7 h	[1080/50p]
[PH 1080/50i]	11 h 15 min (10 h 40 min)	7 h (6 h 35 min)		
[HA 1080/50i]	11 h 20 min (10 h 45 min)	7 h (6 h 40 min)		
[HG 1080/50i]	11 h 25 min (10 h 50 min)	7 h 5 min (6 h 40 min)		
[HE 1080/50i]	11 h 30 min (10 h 55 min)	7 h 5 min (6 h 45 min)		
[SA 576/50i]/ [SX 576/50i]	12 h 5 min (11 h 25 min)	7 h 30 min (7 h 5 min)		

- "h" is an abbreviation for hour and "min" for minute.
- These times are approximations.
- The indicated charging time is for when the battery has been discharged completely.
Charging time and recordable time vary depending on the usage conditions such as high/low temperature.



- | | |
|--|--|
| <p>1 Shoulder strap fixture</p> <p>2 Handle</p> <p>3 Sub zoom lever [W/T] (→ 36, 110)</p> <ul style="list-style-type: none"> This lever functions in the same manner as the zoom lever. <p>4 Sub recording start/stop button (→ 24, 110)</p> <ul style="list-style-type: none"> This button functions in the same manner as the recording start/stop button. <p>5 Microphone cable holder</p> <p>6 Accessory shoe</p> <p>7 External microphone terminal [EXT MIC] (→ 11)</p> <ul style="list-style-type: none"> A compatible plug-in powered microphone can be used as an external microphone When the unit is connected with the AC adaptor, sometimes noise may be heard depending on the microphone type. In this case, please switch to the battery for the power supply and the noise will stop. <p>8 Photoshot button [] (→ 29)</p> | <p>9 Zoom lever [W/T] (In Recording Mode) (→ 36)</p> <p>Volume lever [+VOL-]/Thumbnail display switch [ / ] (In Playback Mode) (→ 34, 35)</p> <p>10 Grip belt (→ 10)</p> <p>11 Status Indicator (→ 18)</p> <p>12 Power switch (→ 18)</p> <p>13 Recording start/stop button (→ 27)</p> <p>14 Charging lamp [CHG] (→ 13)</p> <p>15 DC input terminal [DC IN] (→ 13)</p> <ul style="list-style-type: none"> Do not use any other AC adaptors except the supplied one. <p>16 Headphone terminal [] (→ 48)</p> <p>17 USB terminal [HOST]/[USB 2.0] (→ 82)</p> <p>18 USB terminal [DEVICE]/[USB 2.0] (→ 90, 98)</p> <p>19 HDMI terminal [HDMI] (→ 75)</p> |
|--|--|

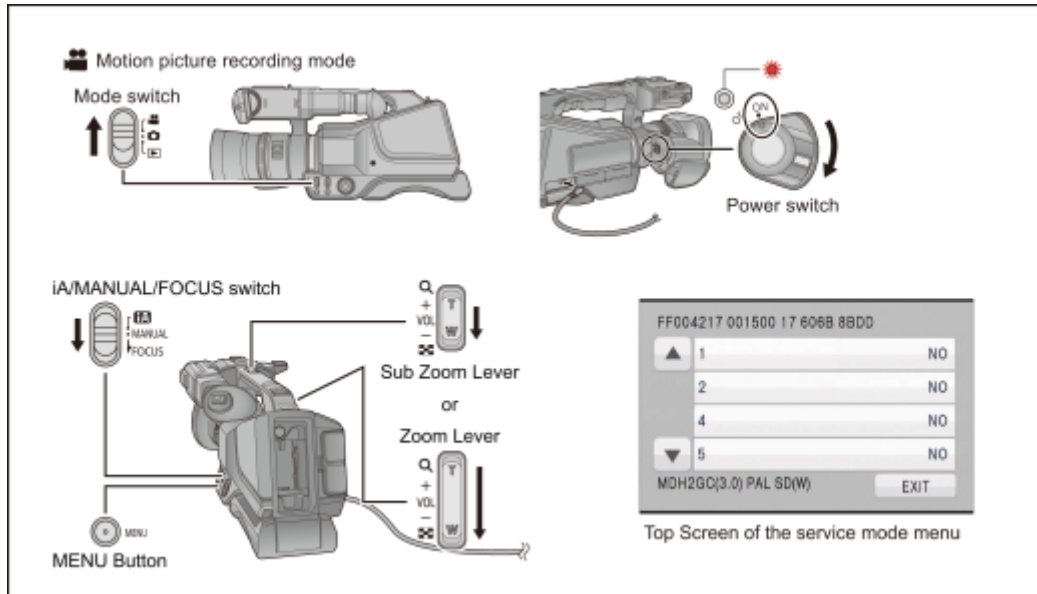


- 20 Ring LED (→ 113)
 - 21 Shoulder strap fixture
 - 22 Internal microphones
 - 23 Recording lamp (→ 113)
 - 24 Lens (→ 10)
 - 25 Lens hood
 - 26 Multi manual ring (→ 39, 43)
 - 27 Camera function button
[CAMERA FUNCTION] (→ 39)
 - 28 Mode switch (→ 18)
 - 29 Intelligent auto/Manual/Manual focus
switch [iA/MANUAL/FOCUS] (→ 31)
 - 30 Cursor button
 - 31 Optical Image Stabilizer button
[((())) O.I.S.] (→ 38)
 - 32 Menu button [MENU] (→ 23)
 - 33 Eyepiece corrector lever (→ 21)
 - 34 Tripod receptacle
- Attaching a tripod with a screw length of 5.5 mm or more may damage the unit.

6 Service Mode

Indication method of the service menu

1. Set the mode switch "Motion Picture Recording" mode.
2. Set the power switch to ON, and turn to ON.
3. Keep pressing the "iA/MANUAL/FOCUS" switch to "FOCUS" side, "MENU" button and "Zoom Lever" (or "Sub Zoom Lever") to W side 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. (When recorded data in Built-in memory, "error display" is done.)
2	Model/Destination settings	Change the Model/Destination. (Selectable models and destinations are displayed.)
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.
14	Adjutment function for the service	The service adjustment do setup and adjustment of the following items required in the field service.
15	Restore the backed up adjustment data	Restore the adjustment data to new or repaired Main P.C.B. from SD card that the data backed up from original Main P.C.B. before repairs or replacement.
16	Touch panel calibration	Calibrate the touch positions of the touch panel.

NOTE:

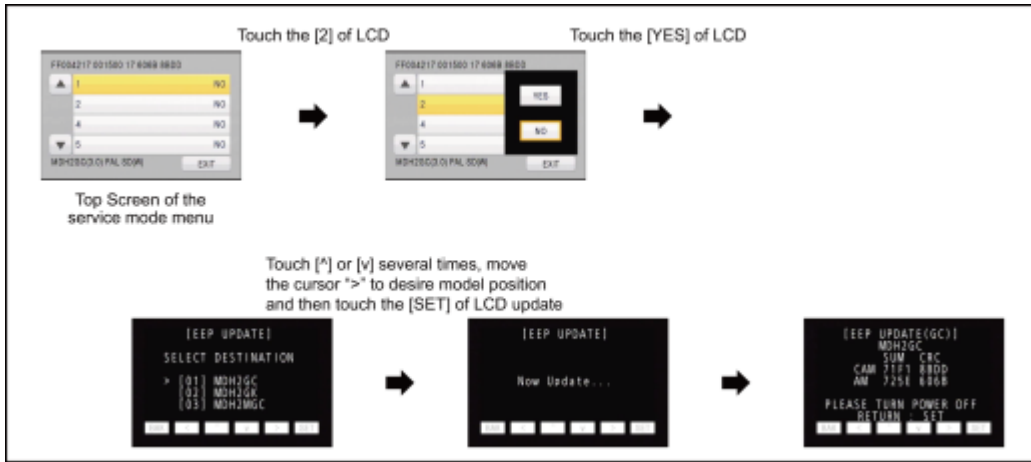
Do not using service mode except above table of Service mode menu.

4. End method of the top screen of the service mode menu
Touch the [EXIT] of LCD to end the service mode, and then POWER OFF.

6.1 Model/Destination Settings

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

Operation specifications



Function description

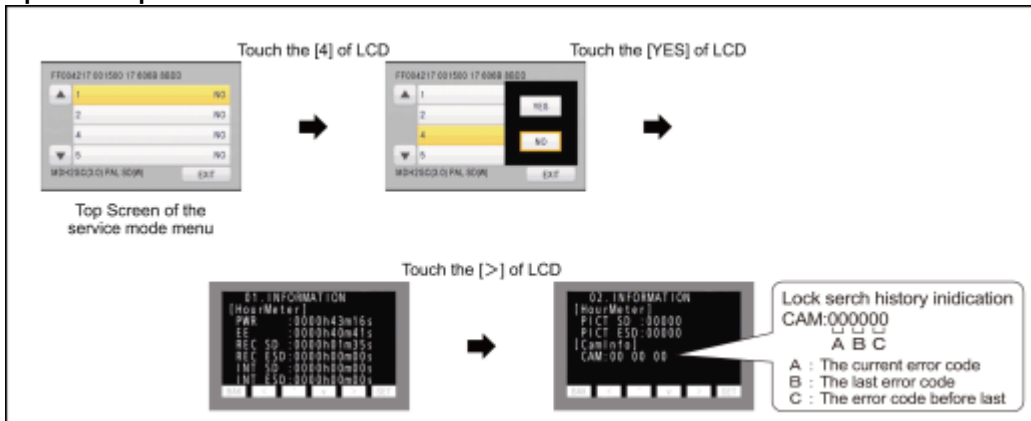
- Change the Model/Destination
Display the lists of model/destination which the unit can be changed.
Therefore in some cases, the model/destination that is currently set is only displayed.

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

6.2 Lock Search History Indication

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

Operation specifications



Indication contents

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

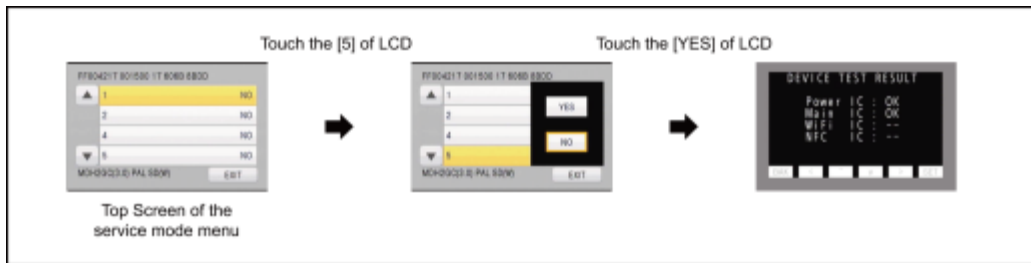
Error code	Function
51	Focus control is abnormal
52	Zoom control is abnormal
53	OIS lens control is abnormal
54	Zoom control is abnormal (2)

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

6.3 Power ON Self Check Result Display

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

Operation specifications



Indication contents

- Power ON self check result display
Function to diagnose correct function of the device and interface between devices result display.
Display the following communication test result.
 - Power IC : Communication test between IC3401 and IC2303
 - Main IC : Communication test between IC3401 and IC3402
 - WiFi IC : (Excluded)
 - NFC IC : (Excluded)
 Display other than “OK” are abnormalities of each lines.

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

6.4 Adjustment function for the Service

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

Operation Specifications (until before the start of the adjustment)



Function description

The service adjustment do setup and adjustment of the following items required in the field service.

For a detailed content, such as the adjustment procedure, refer to “9 Measurements and Adjustments”.

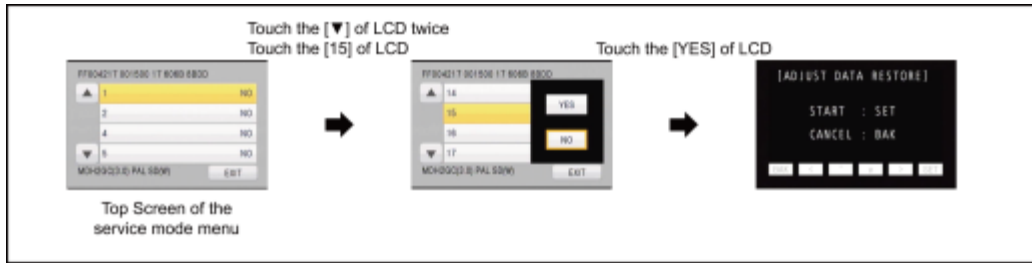
- Model setting
- Setting of the file name for adjustment data backup to SD card.
- Execution of adjustment data backup to SD card
- Checking of Switches
- Zoom Lever adjustment
- Camera adjustment (Iris, Gyro, OIS and Missing pixels)
- Zoom Tracking adjustments
- Indoor White Balance Adjustment (CH-GAIN, PWM, WB)
- Outdoor White Balance Adjustment (PWM, WB)
- Level shot adjustment

Set the power switch to OFF and turn the unit off.

6.5 Restore the backed up adjustment data

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

Operation Specifications

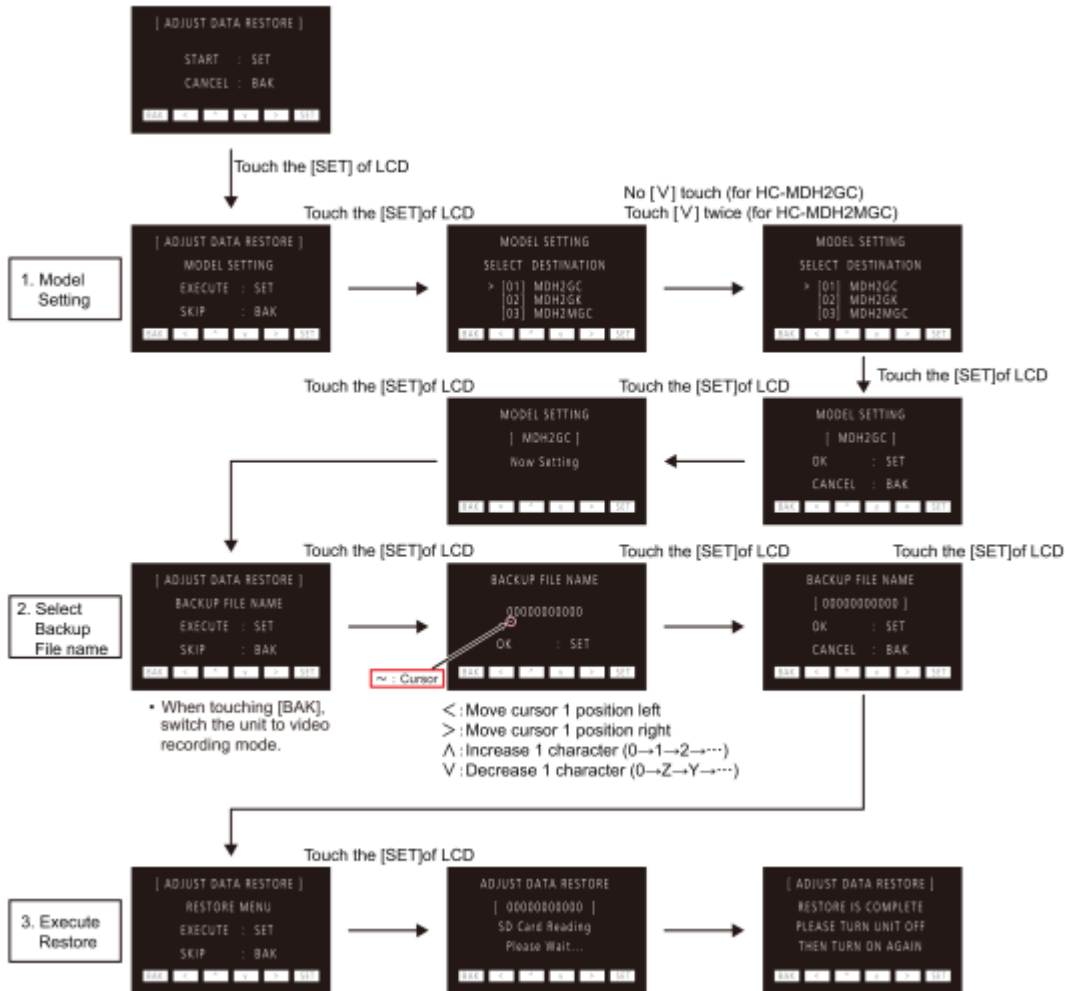


Function description

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

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

Restoring procedure

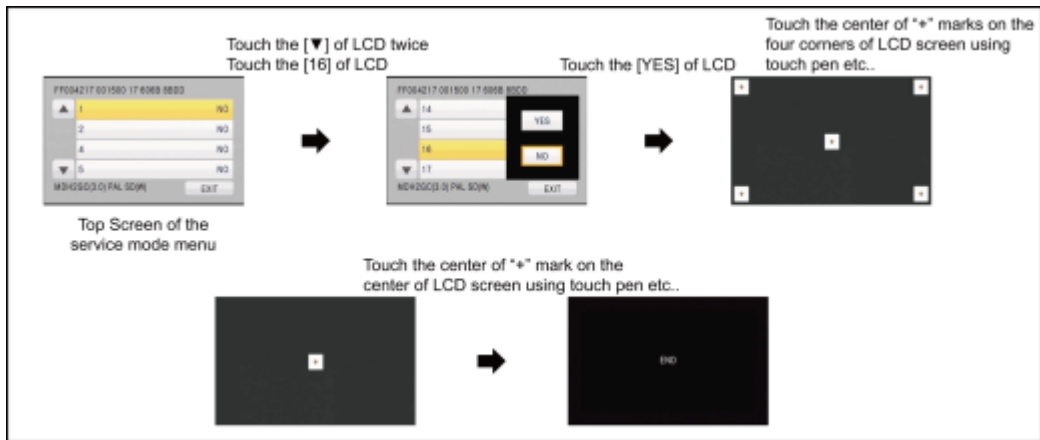


Set the power switch to OFF and turn the unit off.

6.6 Touch Panel Calibration

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

Operation Specifications



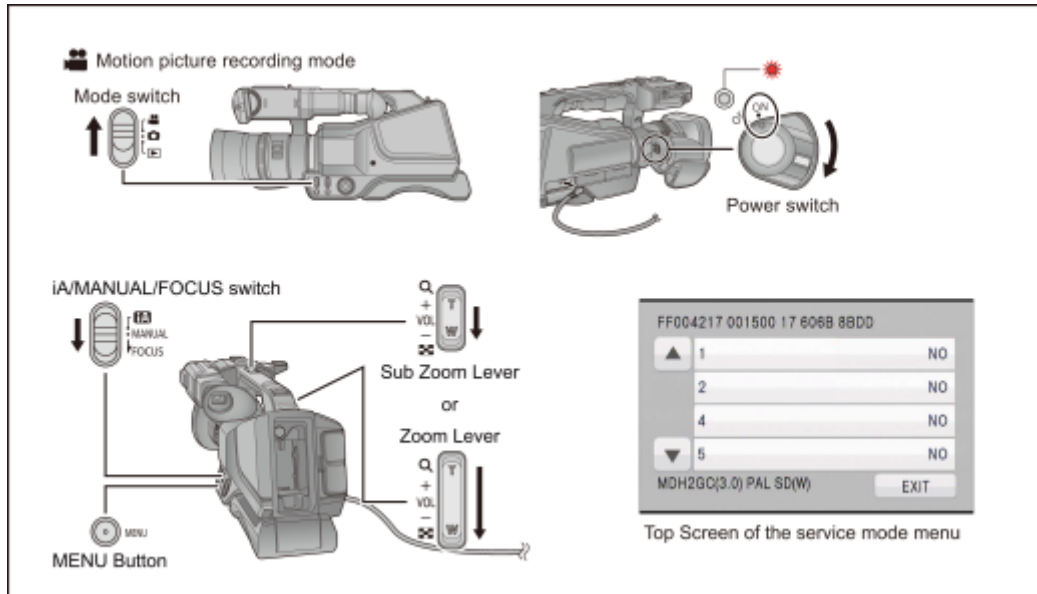
Function description

Calibrate the touch positions of the touch panel.
Set the power switch to OFF and turn the unit off.

6 Service Mode

Indication method of the service menu

1. Set the mode switch "Motion Picture Recording" mode.
2. Set the power switch to ON, and turn to ON.
3. Keep pressing the "iA/MANUAL/FOCUS" switch to "FOCUS" side, "MENU" button and "Zoom Lever" (or "Sub Zoom Lever") to W side 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. (When recorded data in Built-in memory, "error display" is done.)
2	Model/Destination settings	Change the Model/Destination. (Selectable models and destinations are displayed.)
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.
14	Adjutment function for the service	The service adjustment do setup and adjustment of the following items required in the field service.
15	Restore the backed up adjustment data	Restore the adjustment data to new or repaired Main P.C.B. from SD card that the data backed up from original Main P.C.B. before repairs or replacement.
16	Touch panel calibration	Calibrate the touch positions of the touch panel.

NOTE:

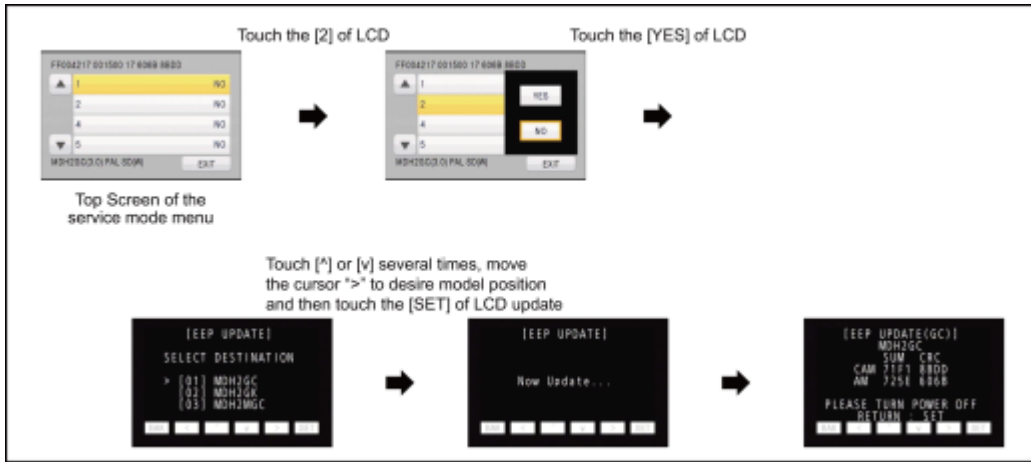
Do not using service mode except above table of Service mode menu.

4. End method of the top screen of the service mode menu
Touch the [EXIT] of LCD to end the service mode, and then POWER OFF.

6.1 Model/Destination Settings

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

Operation specifications



Function description

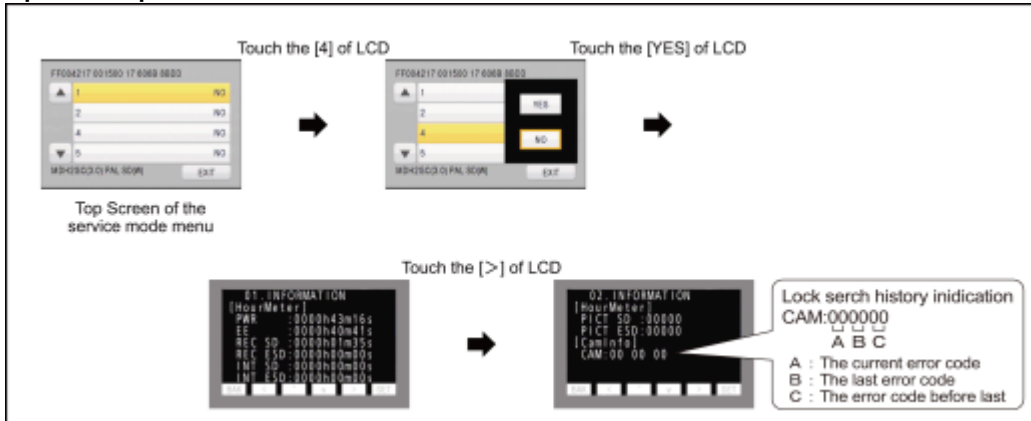
- Change the Model/Destination
 Display the lists of model/destination which the unit can be changed.
 Therefore in some cases, the model/destination that is currently set is only displayed.

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

6.2 Lock Search History Indication

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

Operation specifications



Indication contents

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

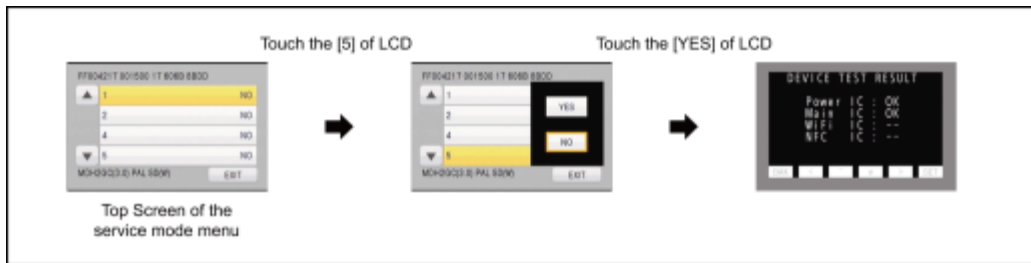
Error code	Function
51	Focus control is abnormal
52	Zoom control is abnormal
53	OIS lens control is abnormal
54	Zoom control is abnormal (2)

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

6.3 Power ON Self Check Result Display

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

Operation specifications



Indication contents

- Power ON self check result display
Function to diagnose correct function of the device and interface between devices result display.
Display the following communication test result.
 - Power IC : Communication test between IC3401 and IC2303
 - Main IC : Communication test between IC3401 and IC3402
 - WiFi IC : (Excluded)
 - NFC IC : (Excluded)
 Display other than “OK” are abnormalities of each lines.

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

6.4 Adjustment function for the Service

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

Operation Specifications (until before the start of the adjustment)



Function description

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

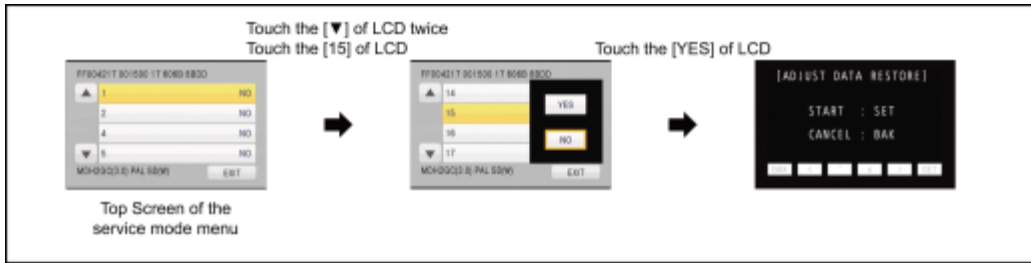
- Model setting
- Setting of the file name for adjustment data backup to SD card.
- Execution of adjustment data backup to SD card
- Checking of Switches
- Zoom Lever adjustment
- Camera adjustment (Iris, Gyro, OIS and Missing pixels)
- Zoom Tracking adjustments
- Indoor White Balance Adjustment (CH-GAIN, PWM, WB)
- Outdoor White Balance Adjustment (PWM, WB)
- Level shot adjustment

Set the power switch to OFF and turn the unit off.

6.5 Restore the backed up adjustment data

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

Operation Specifications

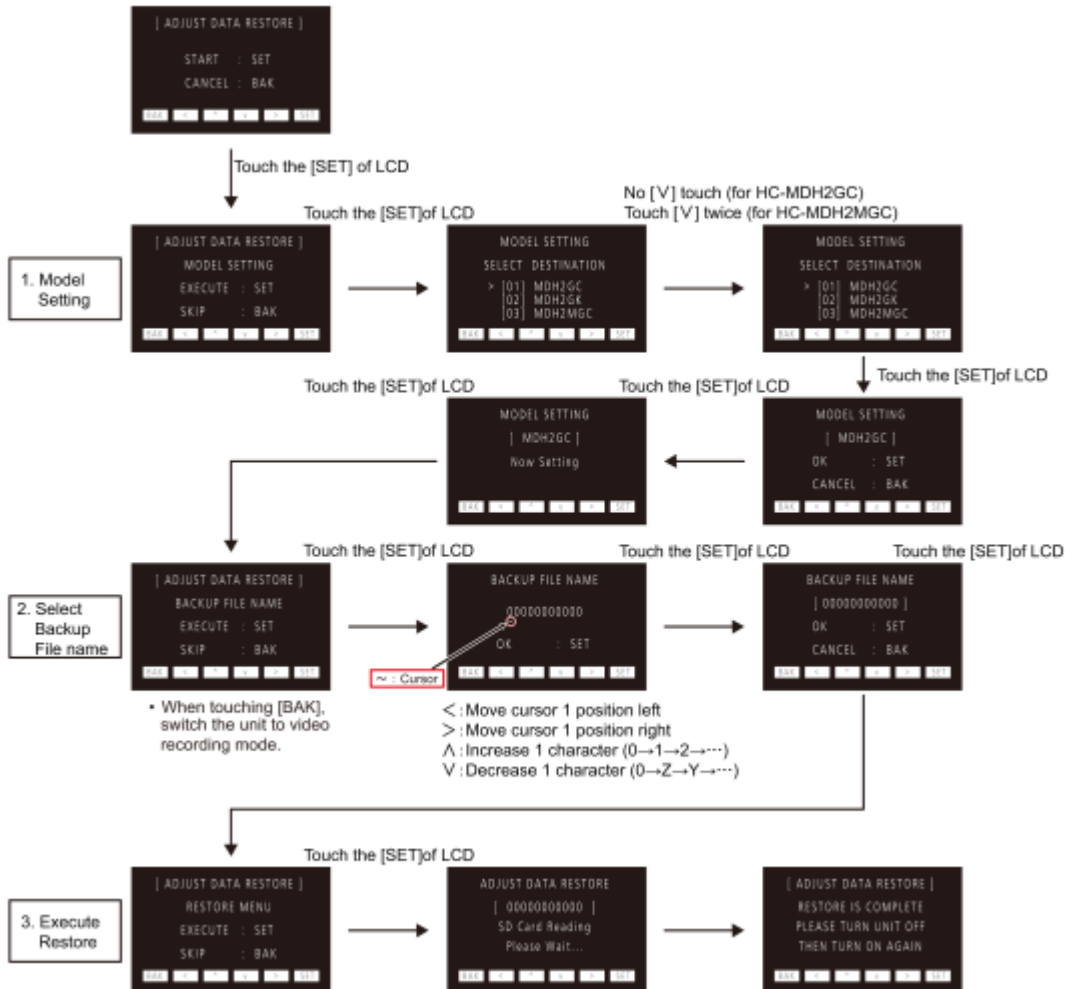


Function description

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

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

Restoring procedure

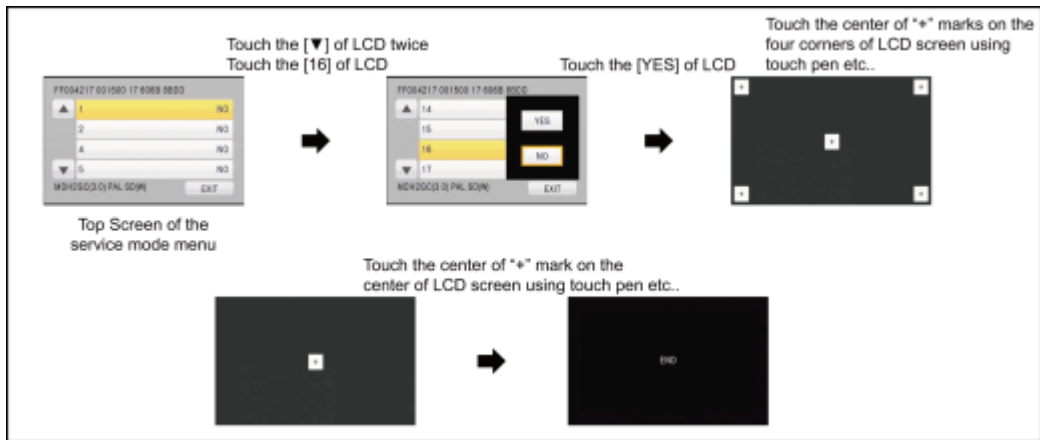


Set the power switch to OFF and turn the unit off.

6.6 Touch Panel Calibration

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

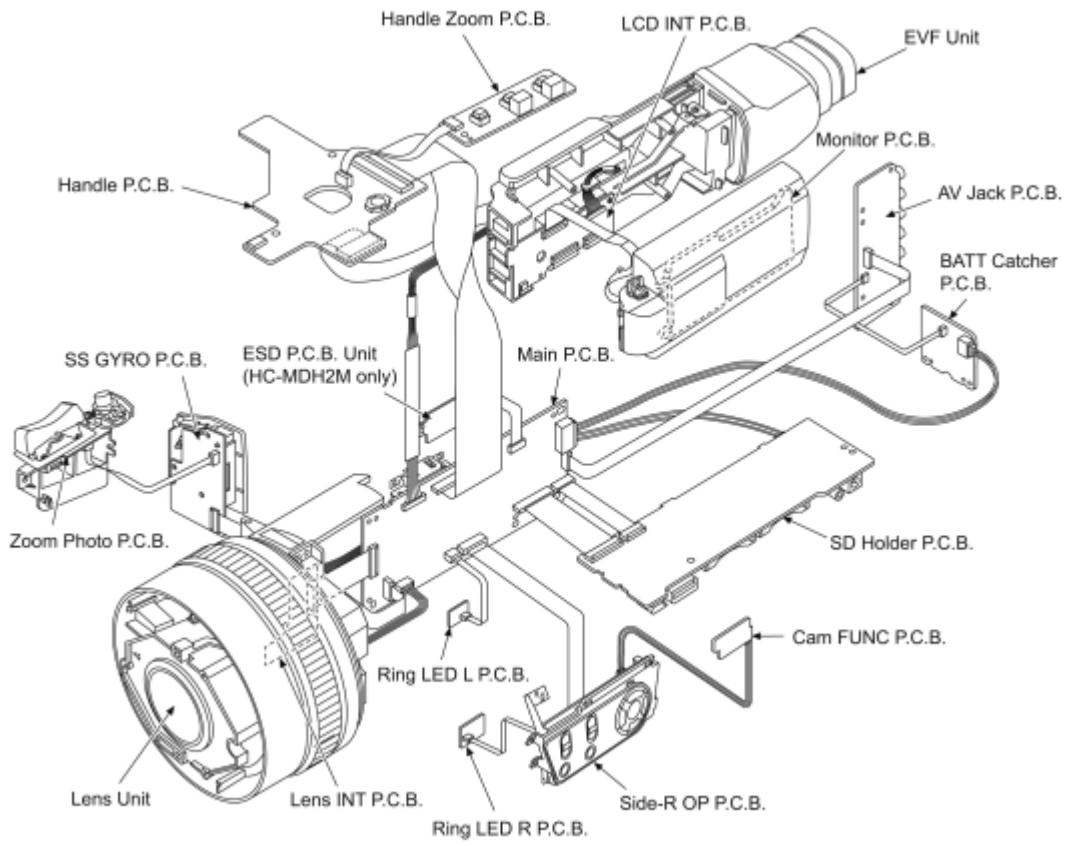
Operation Specifications



Function description

Calibrate the touch positions of the touch panel.

Set the power switch to OFF and turn the unit off.

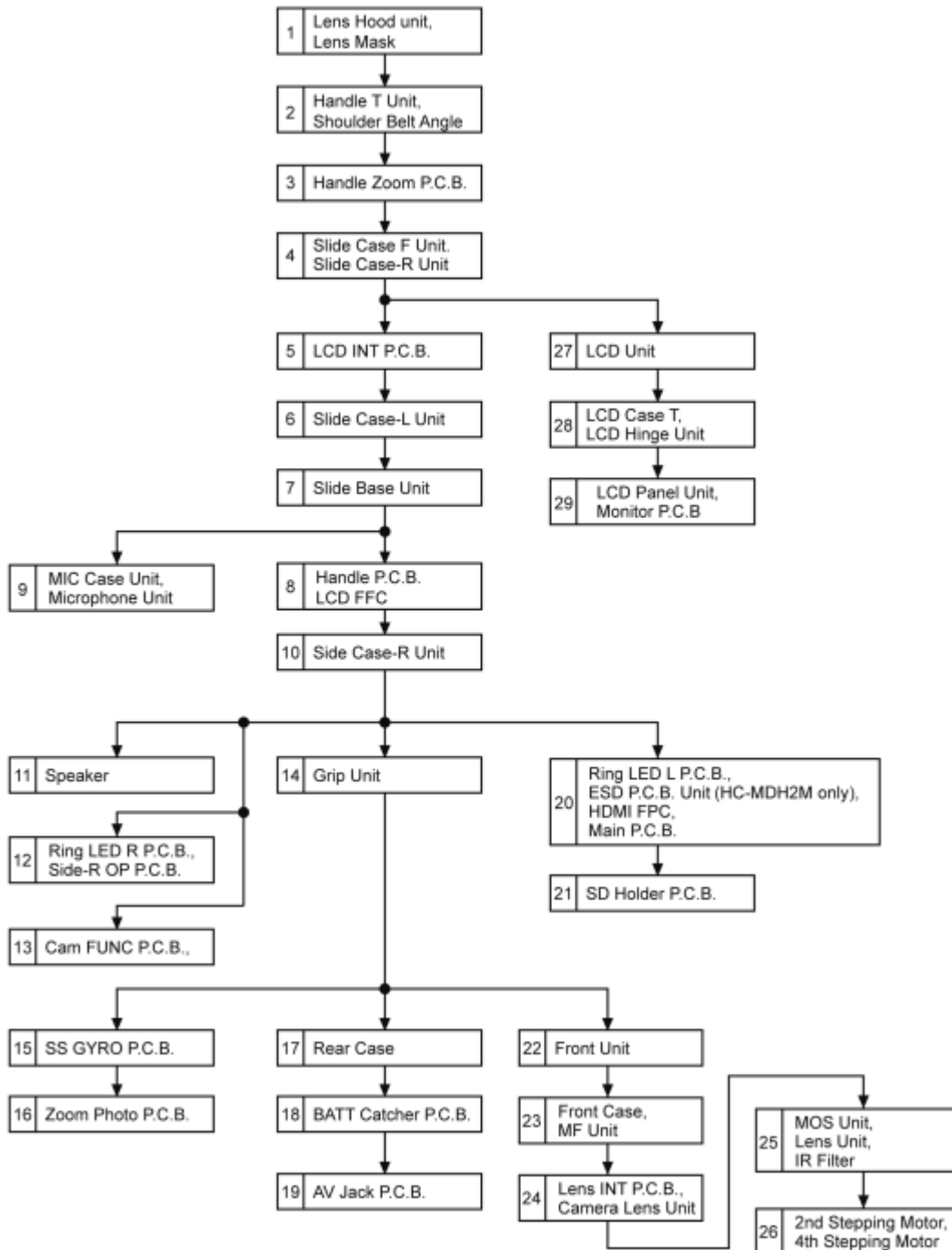


8 Disassembly and Assembly Instructions

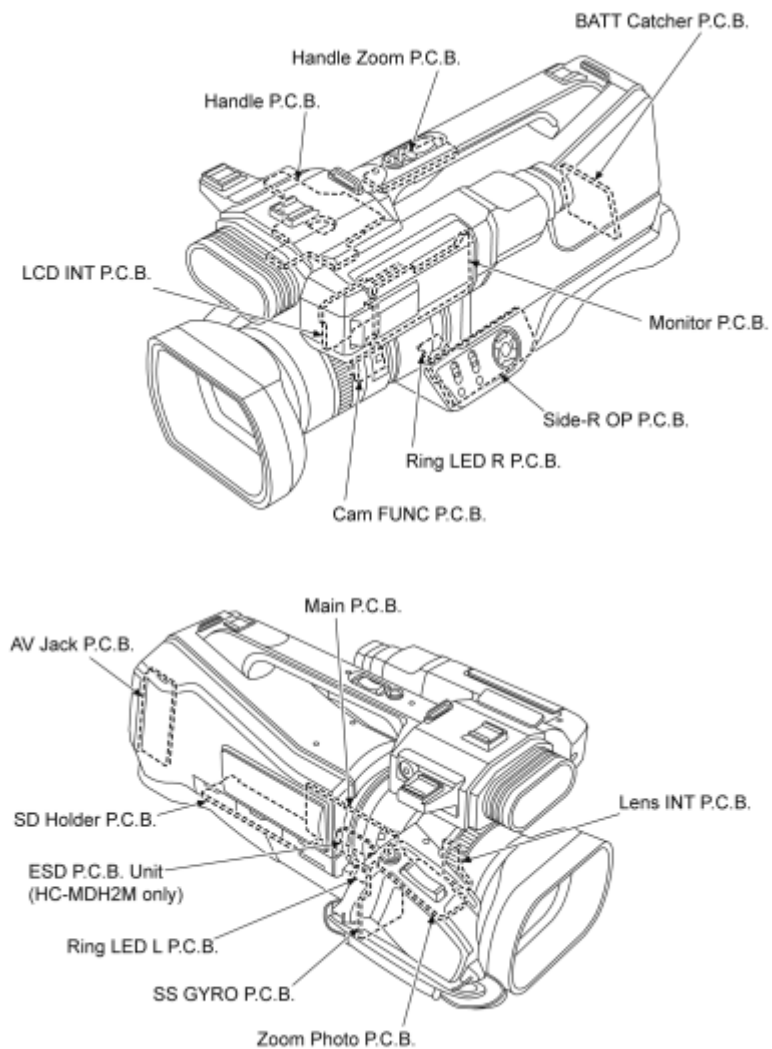
8.1 Disassembly Flow Chart for the Unit

This is a disassembling chart.

When assembling, perform this chart conversely.



8.2 P.C.B. Location



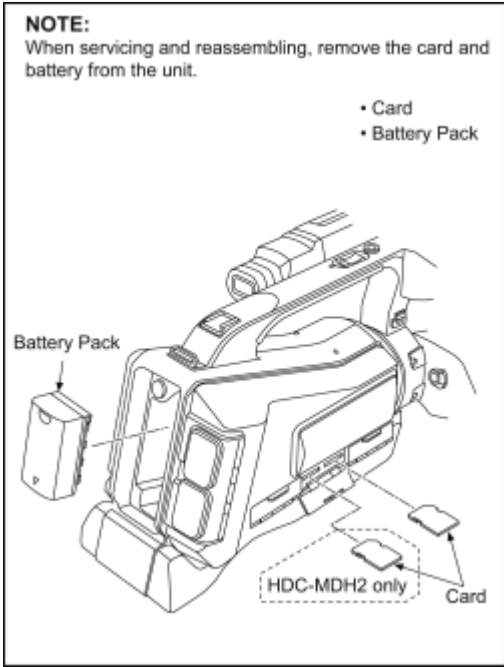
8.3 Disassembly Procedure for the Unit

No.	Item	Fig.	Removal
1	Lens Hood Unit Lens Mask	(Fig. D1)	Screw (A) x 1 Lens Hood Unit
		(Fig. D2)	Screw (B) x 3 Lens Mask
2	Handle T Unit Sholder Belt Angle Frame	(Fig. D3)	Screw (C) x 6 Screw (D) x 2 Hooking part x 2 Handle T Unit
		(Fig. D4)	Screw (E) x 4 Sholder Belt Angle Frame
3	Handle Zoom P.C.B.	(Fig. D5)	Screw (F) x 2 Flex Handle Zoom P.C.B.
4	Slide Case Frame Slide Case-R Unit	(Fig. D6)	Screw (G) x 2 Slide Case Frame
		(Fig. D7)	Screw (H) x 5 Screw (I) x 1 FP852 (Flex) Locking tab x 3 Slide Case-R Unit
		(Fig. D8)	(NOTE: When Installing)

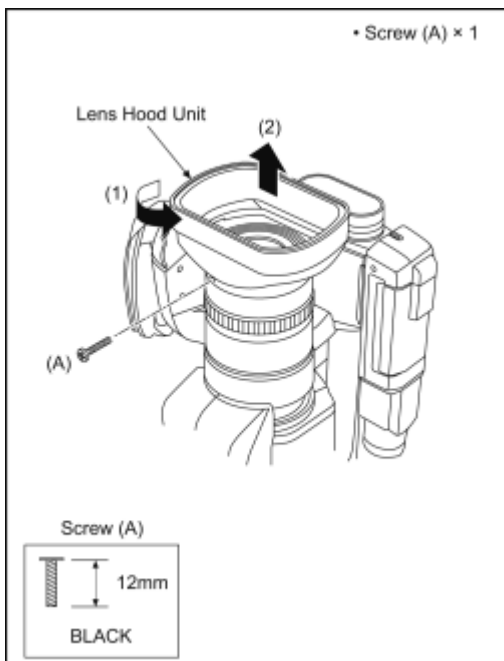
5	LCD INT P.C.B.	(Fig. D9)	Screw (J) x 1
			FP851 (Flex)
			FP853 (Flex)
			PS851 (Connector)
			Hooking part x 1
			Locking tab x 1
			LCD INT P.C.B.
6	Slide Case-L Unit	(Fig. D10)	Screw (K) x 4
			Slide Case-L Unit
7	Slide Base Unit	(Fig. D11)	FP4901 (Flex)
			FP4903 (Flex)
			Screw (L) x 6
			Screw (M) x 1
		(Fig. D12)	Slide Base Unit
8	Handle P.C.B. LCD FFC	(Fig. D13)	Screw (N) x 2
			MIC Shoe Attach
			Screw (O) x 2
		(Fig. D14)	FP4902 (Flex)
			FP4904 (Flex)
			Handle P.C.B.
9	MIC Case Unit Microphone Unit	(Fig. D15)	Locking tab x 1
			MIC Case Unit
			MIC Cushion A
			MIC Cushion B
			MIC Cushion C
			Microphone Unit
			10
Screw (Q) x 6			
Screw (R) x 4			
Locking tab x 3			
FP6007 (Flex)			
Side Case-R Unit			
11	Speaker	(Fig. D17)	
			SP Angle
			P6951 (Connector)
			Speaker
12	Ring LED R P.C.B. Side-R OP P.C.B.	(Fig. D18)	Screw (T) x 1
			FP6631 (Flex)
			Ring LED R P.C.B.
			P6951 (Connector)
			P6952 (Connector)
		(Fig. D19)	Screw (U) x 6
			Screw (V) x 5
			Side-R OP P.C.B.
13	Cam FUNC P.C.B.	(Fig. D20)	P6601 (Connector)
			Screw (W) x 2
			Cam FUNC P.C.B.
14	Grip Unit	(Fig. D21)	Screw (X) x 3
			Screw (Y) x 5
			FP6401 (Flex)
			Grip Unit
15	SS GYRO P.C.B.	(Fig. D22)	Screw (Z) x 5
			FP6402 (Flex)
			SS GYRO P.C.B.
16	Zoom Photo P.C.B.	(Fig. D23)	Screw (a) x 2
			Screw (b) x 1
			Photo Shot Button

			Hooking part x 2
			Zoom SW Hold Frame
			Screw (c) x 2
			Zoom Lever
			Zoom Lever Cussion(B)
			Zoom Photo P.C.B.
17	Rear Case	(Fig. D24)	FP6701 (Flex)
			P6701 (Connector)
			Screw (d) x 1
			Screw (e) x 2
			Locking tab x 2
			Rear Case
18	BATT Catcher P.C.B.	(Fig. D25)	Screw (f) x 2
			BATT Catcher P.C.B.
19	AV Jack P.C.B.	(Fig. D26)	FP4501 (Flex)
			FP4502 (Flex)
			Screw (g) x 4
			AV Jack P.C.B.
20	Ring LED L P.C.B. ESD P.C.B. Unit (HC-MDH2M only) HDMI FPC Unit Main P.C.B.	(Fig. D27)	Screw (h) x 2
			Screw (i) x 1
			FP6011 (Flex)
			Ring LED L P.C.B.
		(Fig. D28)	Screw (j) x 3
			Screw (k) x 2
			FP6003 (Flex)
			FP6004 (Flex)
			FP6005 (Flex)
			FP6008 (Flex)
			P301 (Connector)
			P6002 (Connector)
			P6003 (Connector)
		(Fig. D29)	Screw (l) x 2
			Flex
			ESD P.C.B. Unit
		(Fig. D30)	Screw (m) x 3
			Locking tab x 1
			Main Frame
			FP6002 (Flex)
			HDMI FPC Unit
			Main P.C.B.
21	SD Holder P.C.B.	(Fig. D31)	Screw (n) x 3
			Screw (o) x 2
			Hooking part x 3
			SD Holder P.C.B.
22	Front Unit	(Fig. D32)	Screw (p) x 1
			Screw (q) x 2
			Front Unit
23	Front Case MF Unit	(Fig. D33)	Hooking part x 2
			Front Case
			Screw (r) x 1
		(Fig. D34)	Connector
			MF Unit
24	Lens INT P.C.B. Camera Lens Unit	(Fig. D35)	Locking tab x 2
			Lens Frame-R Unit
			Screw (s) x 1
			Locking tab x 2
		(Fig. D36)	FP6108 (Flex)
			Lens INT P.C.B.
			Camera Lens Unit

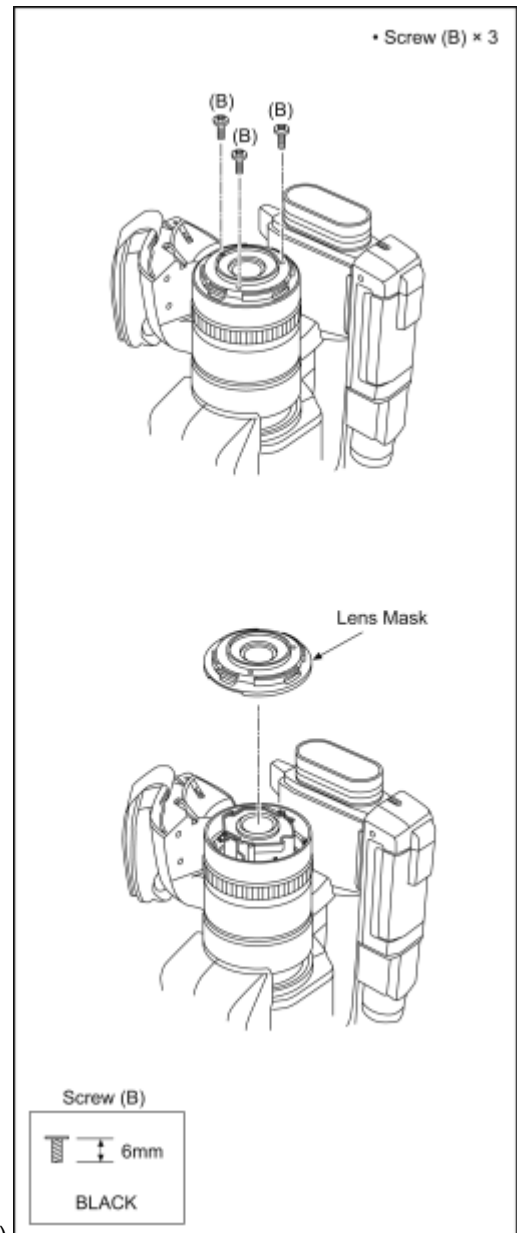
			Lens Frame-L Unit				
25	MOS Unit Lens Unit IR Filter	(Fig. D37)	Screw (t) x 3 Lens Unit MOS Unit MOS Cushion IR Filter				
26	2nd Stepping Motor 4th Stepping Motor	(Fig. D38)	Screw (u) x 2 Solder x 8 points Convex x 1 2nd Stepping Motor				
			(Fig. D39)	Screw (v) x 1 Solder x 6 points Convex x 4 4th Stepping Motor			
		27	LCD Unit	(Fig. D40)	Screw (w) x 2 Locking tab x 2 Hooking part x 2 LCD Hinge Angle LCD SW Lever LCD SW Spring Convex x 2		
					(Fig. D41)	LCD Case-R Unit LCD Unit	
28	LCD Case-T LCD Hinge Unit				(Fig. D42)	Screw (x) x 2 Locking tab x 8 LCD Case-T	
				(Fig. D43)		FP901 (Flex) LCD Hinge Unit	
					29	LCD Panel Unit Monitor P.C.B.	(Fig. D44)
				(Fig. D45)			
(Fig. D46)	Reflection Sheet Light Guide Plate Diffusion Sheet Prism Sheet B Prism Sheet A LCD Holder						



8.3.1 Removal of the Lens Hood Unit and Lens Mask

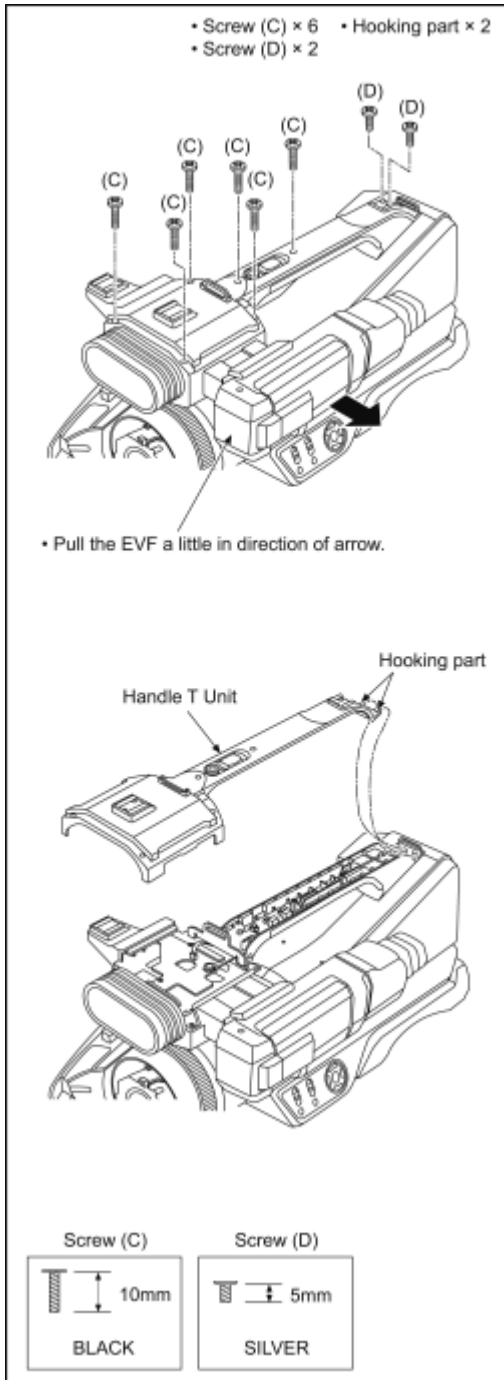


(Fig. D1)

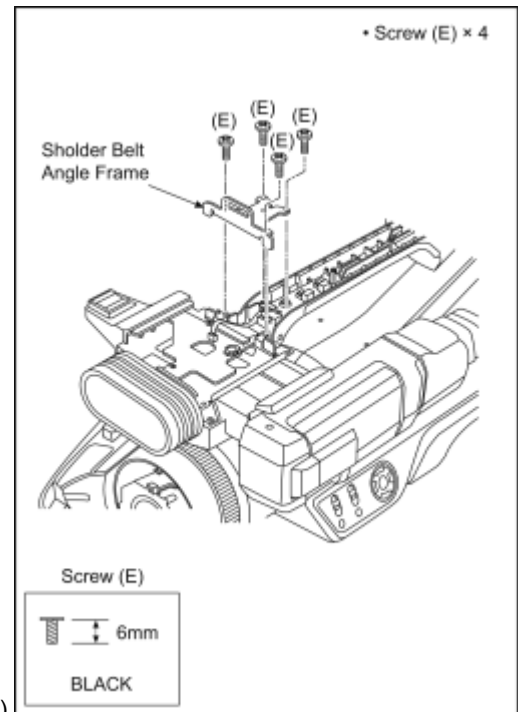


(Fig. D2)

8.3.2 Removal of the Handle T Unit and Sholder Belt Angle Frame

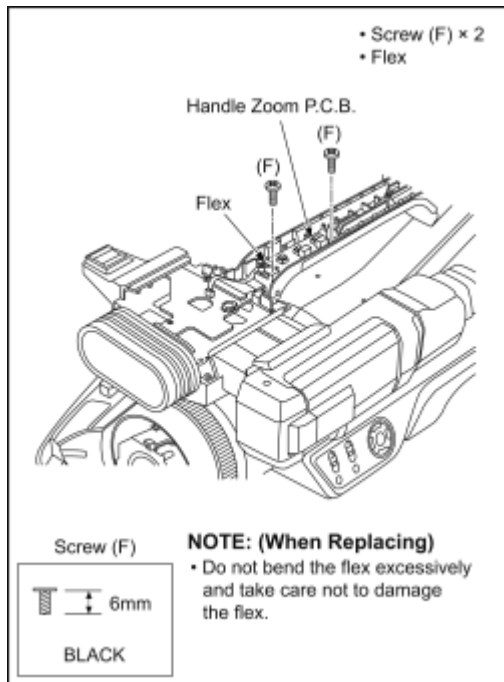


(Fig. D3)



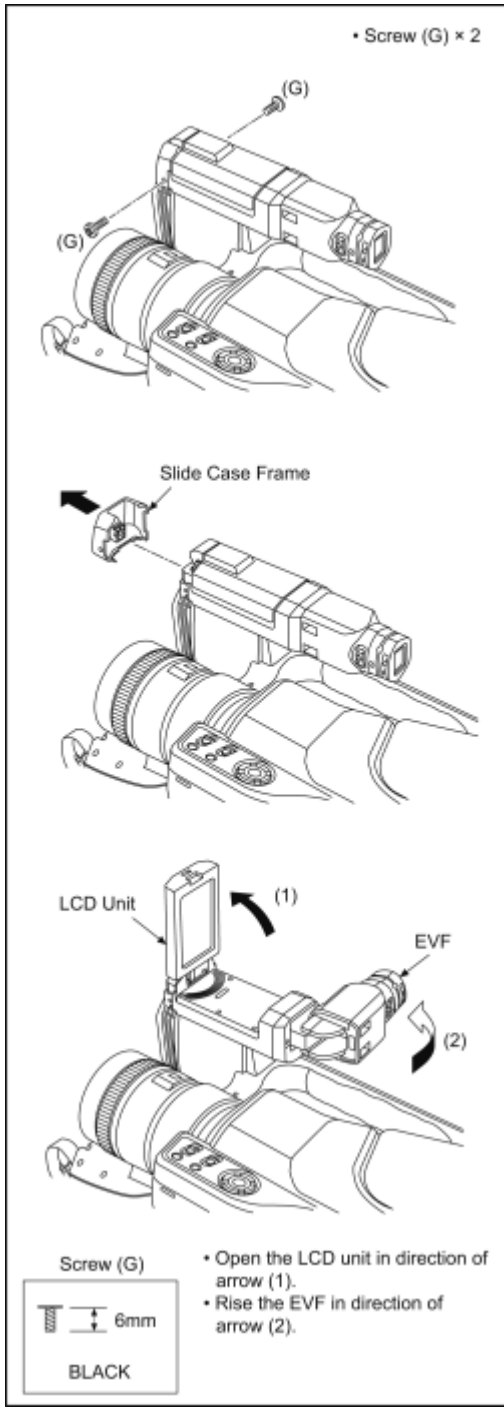
(Fig. D4)

8.3.3 Removal of the Handle Zoom P.C.B.

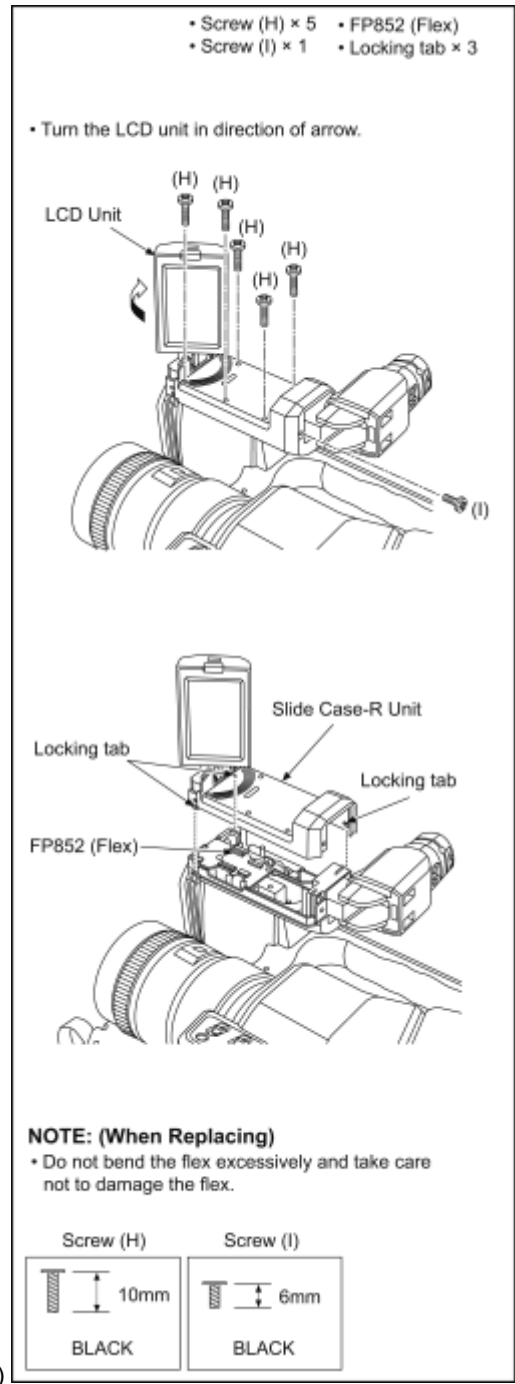


(Fig. D5)

8.3.4 Removal of the Slide Case Frame and Slide Case-R Unit

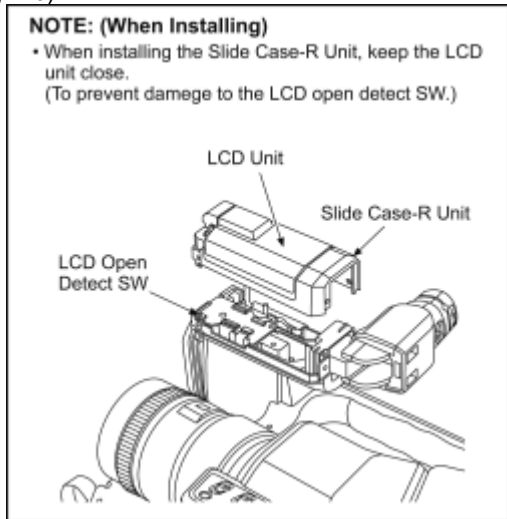


(Fig. D6)



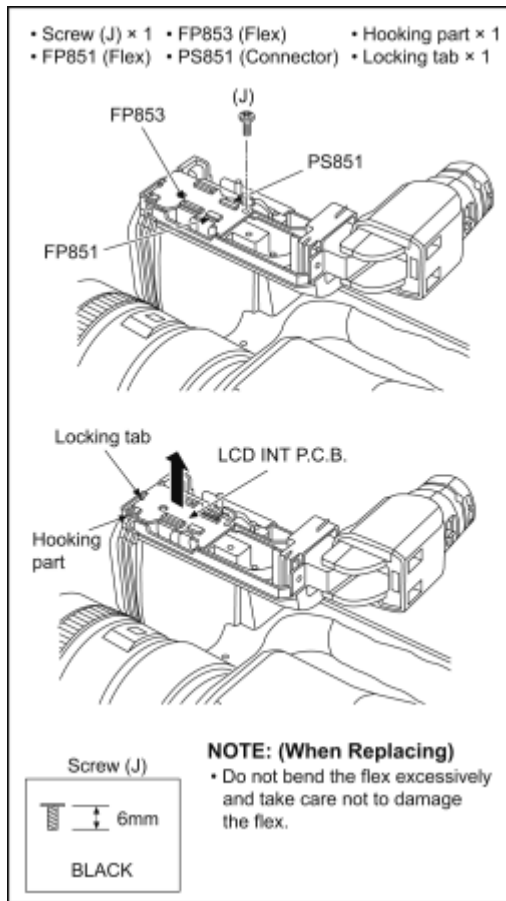
(Fig. D7)

(Fig.



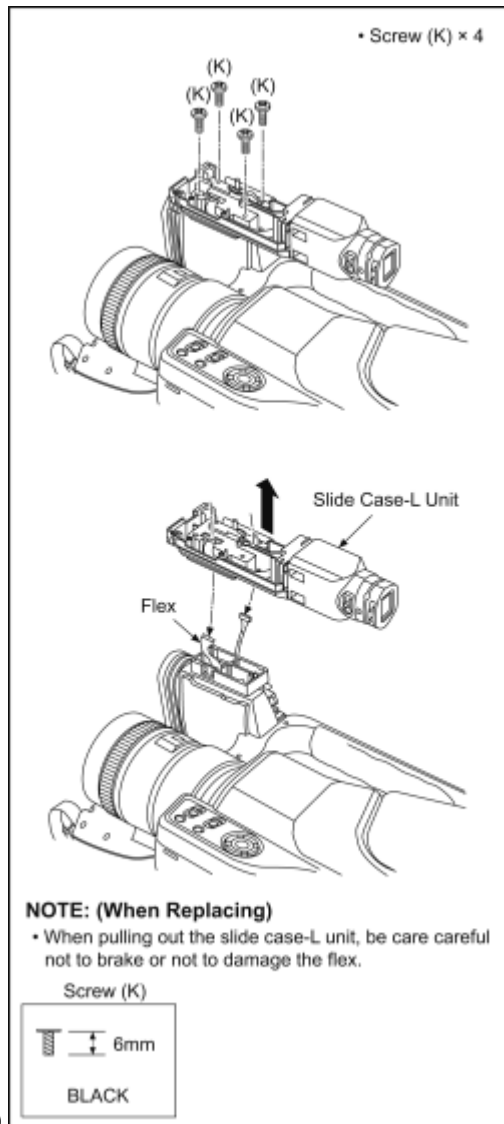
D8)

8.3.5 Removal of the LCD INT P.C.B.



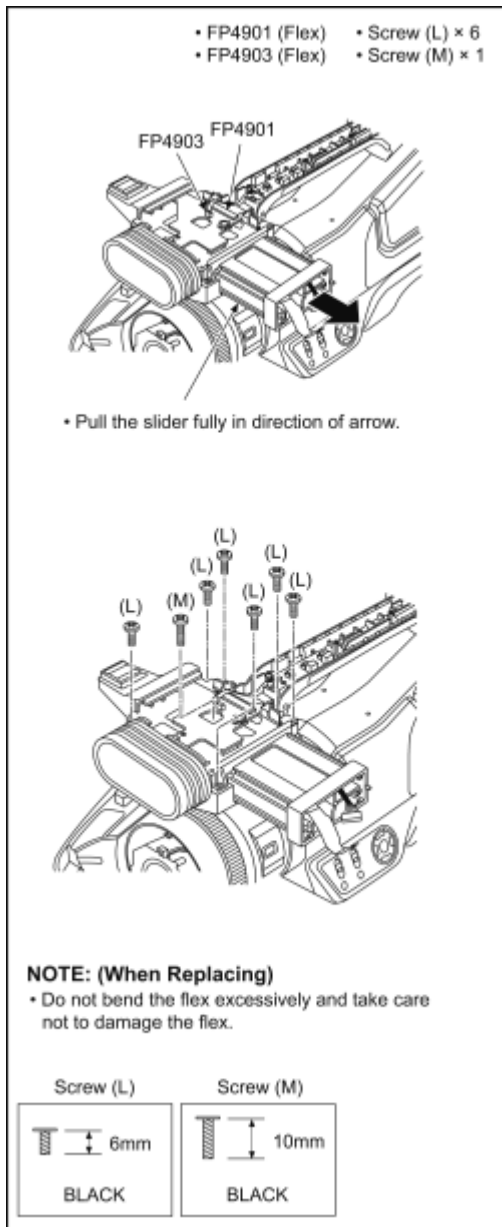
(Fig. D9)

8.3.6 Removal of the Slide Case-L Unit

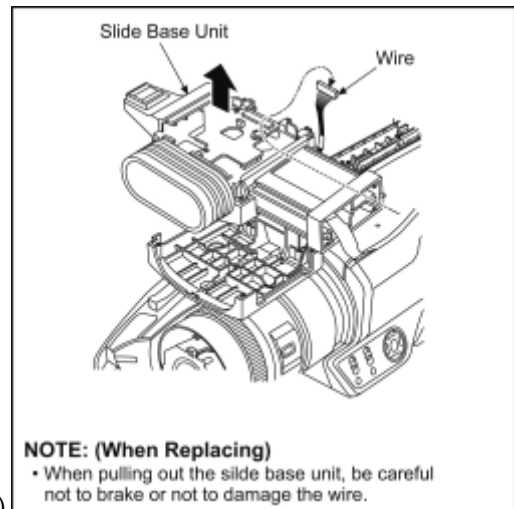


(Fig. D10)

8.3.7 Removal of the Slide Base Unit

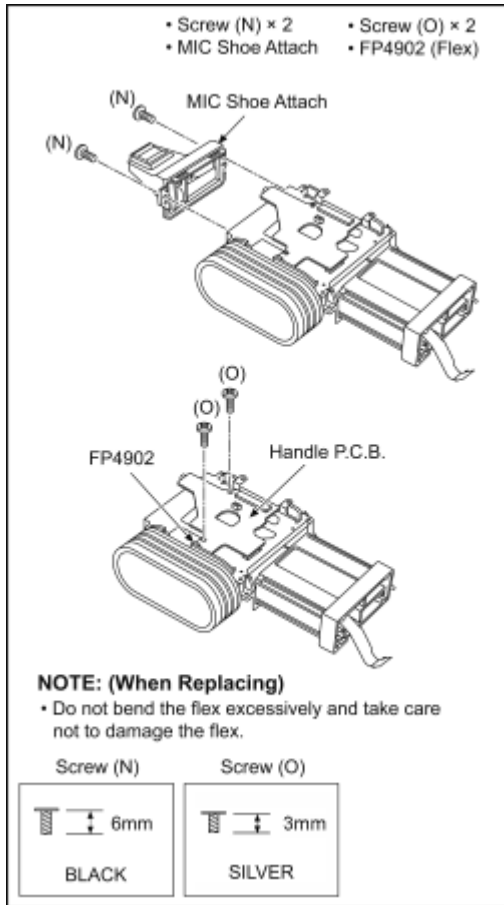


(Fig. D11)

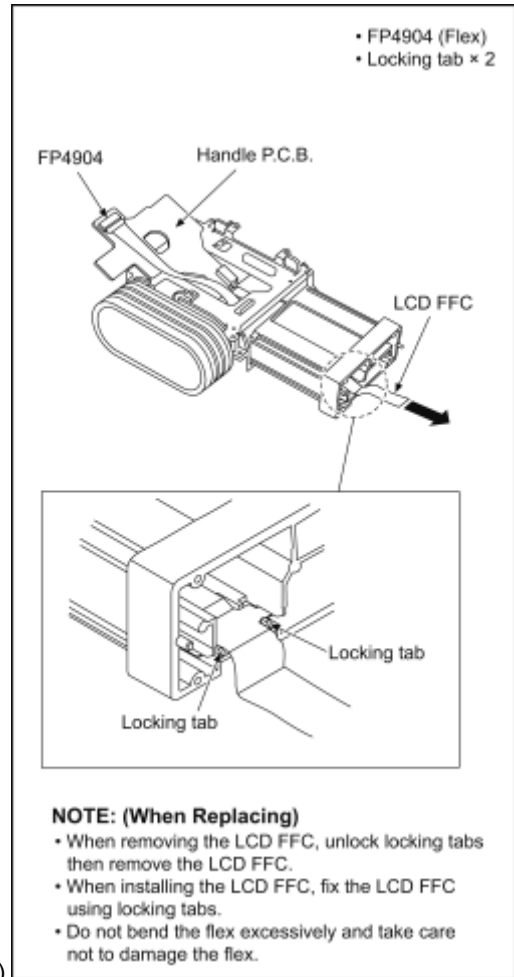


(Fig. D12)

8.3.8 Removal of the Handle P.C.B.

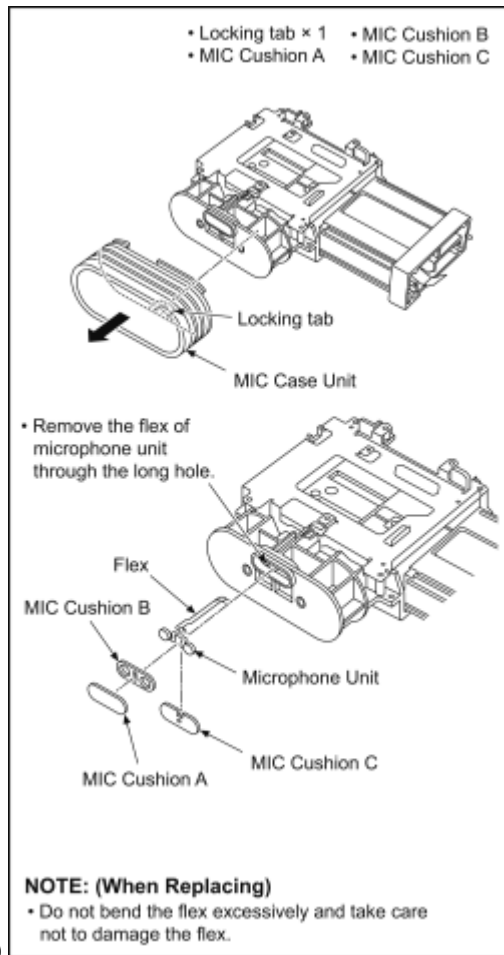


(Fig. D13)



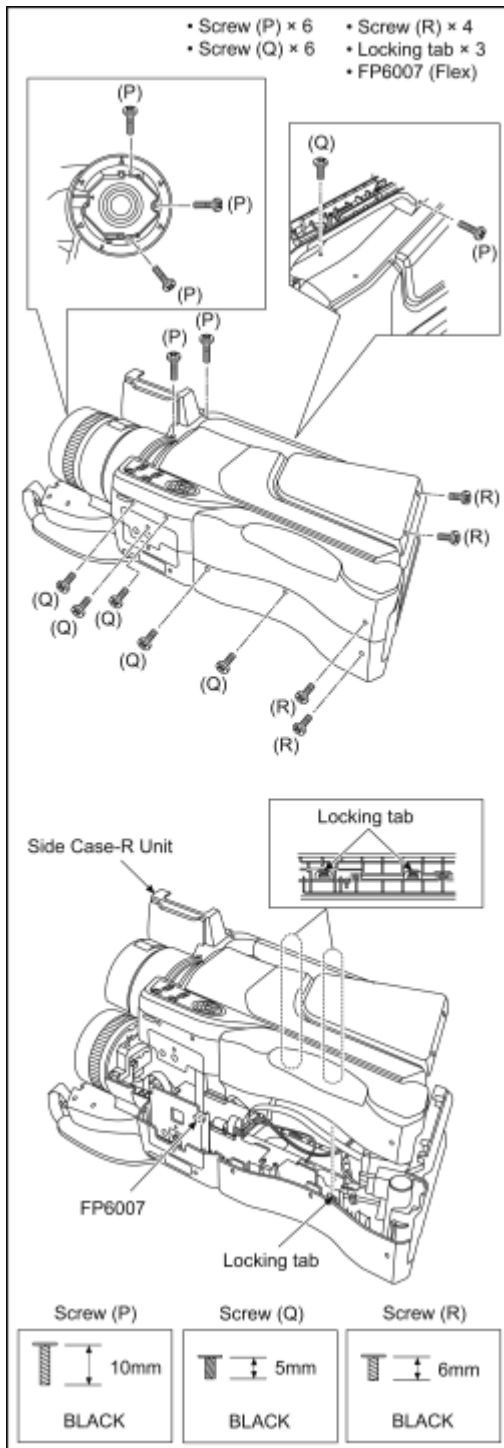
(Fig. D14)

8.3.9 Removal of the MIC Case Unit and Microphone Unit



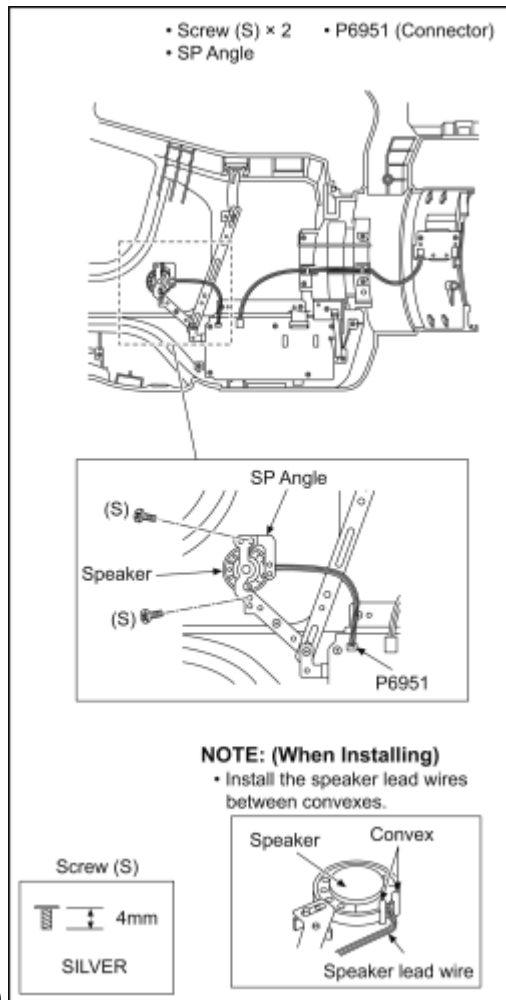
(Fig. D15)

8.3.10 Removal of the Side Case-R Unit



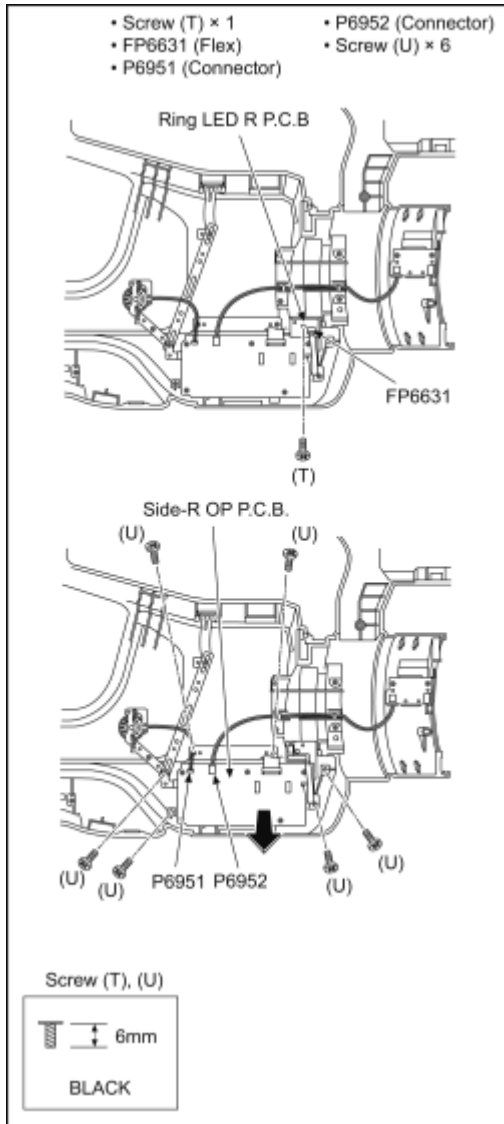
(Fig. D16)

8.3.11 Removal of the Speaker

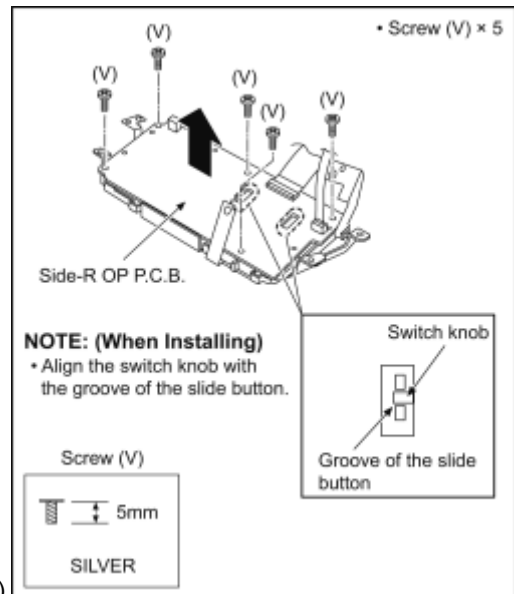


(Fig. D17)

8.3.12 Removal of the Ring LED R P.C.B. and Side-R OP P.C.B.

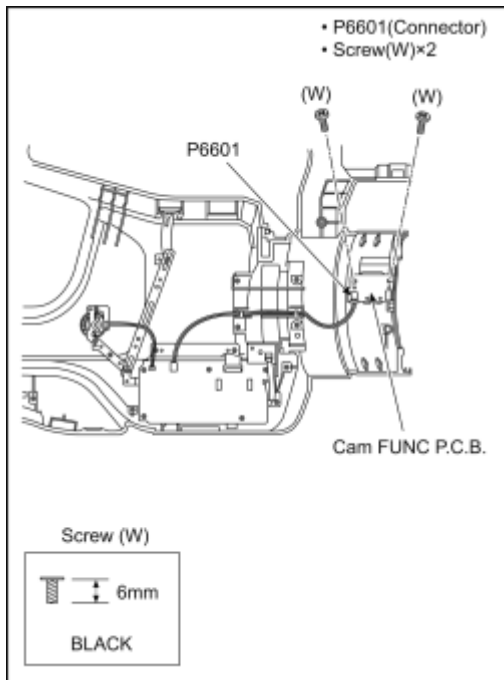


(Fig. D18)



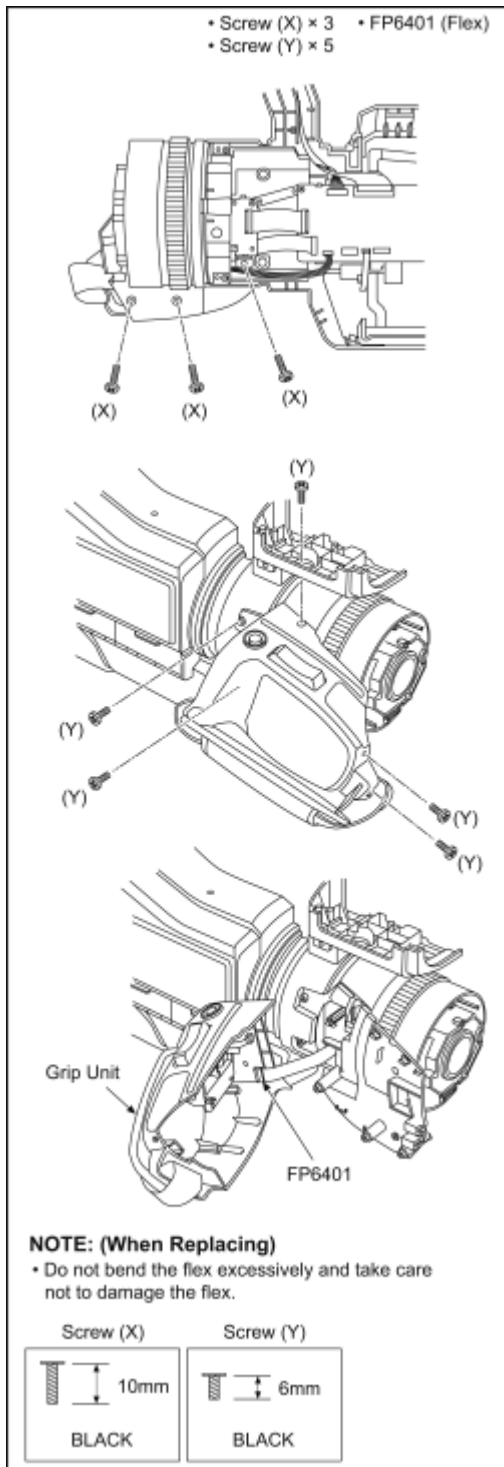
(Fig. D19)

8.3.13 Removal of the Cam FUNC P.C.B.



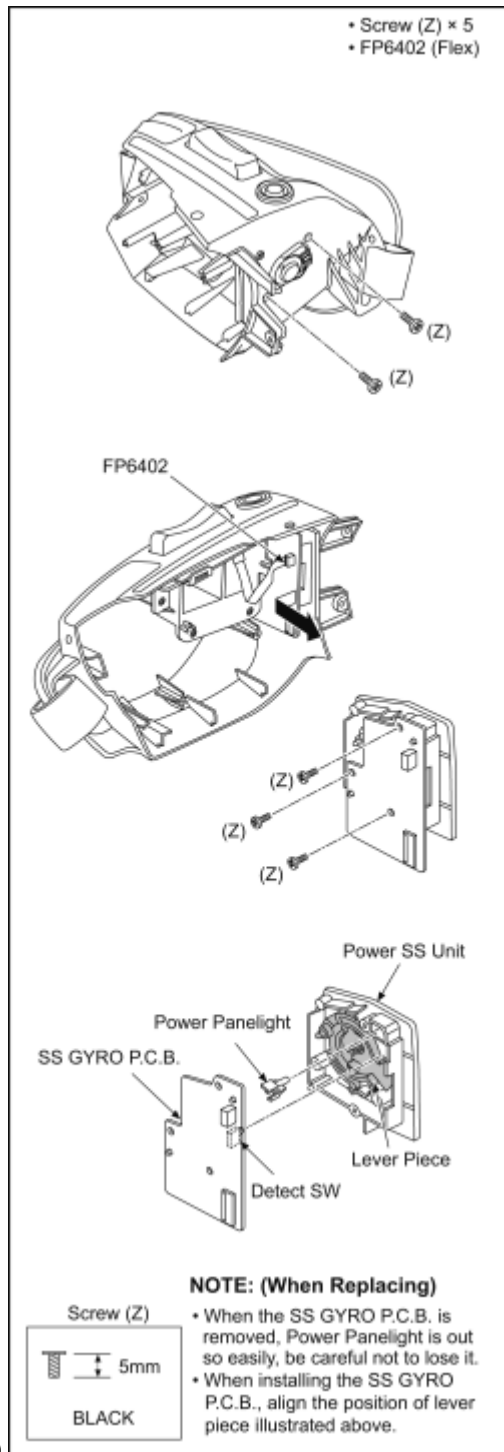
(Fig. D20)

8.3.14 Removal of the Grip Unit



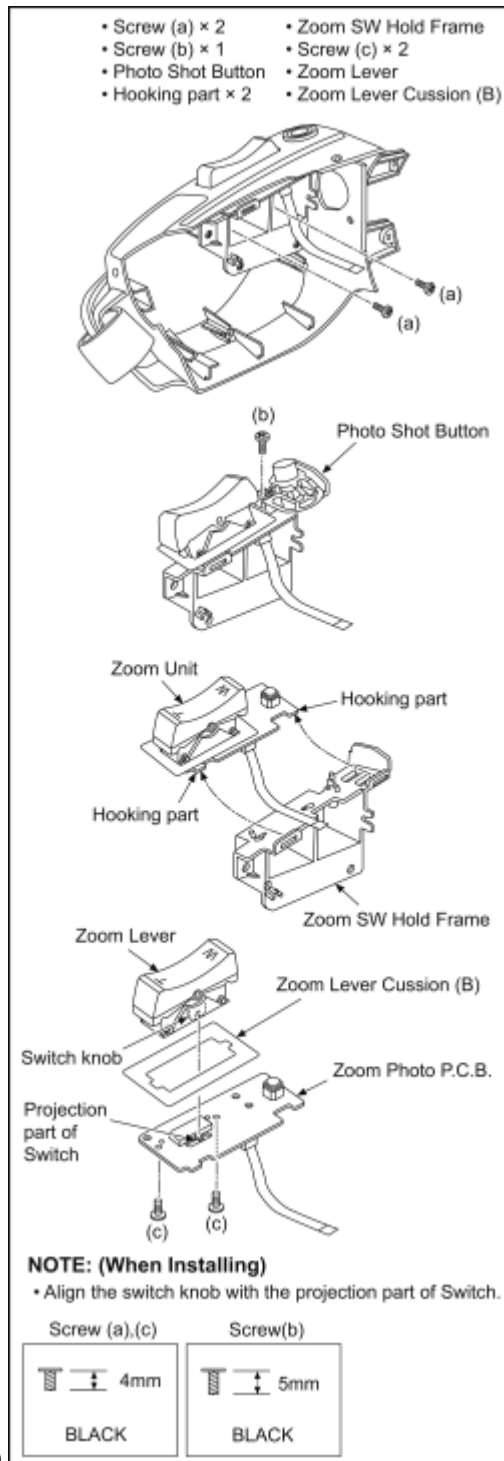
(Fig. D21)

8.3.15 Removal of the SS GYRO P.C.B.



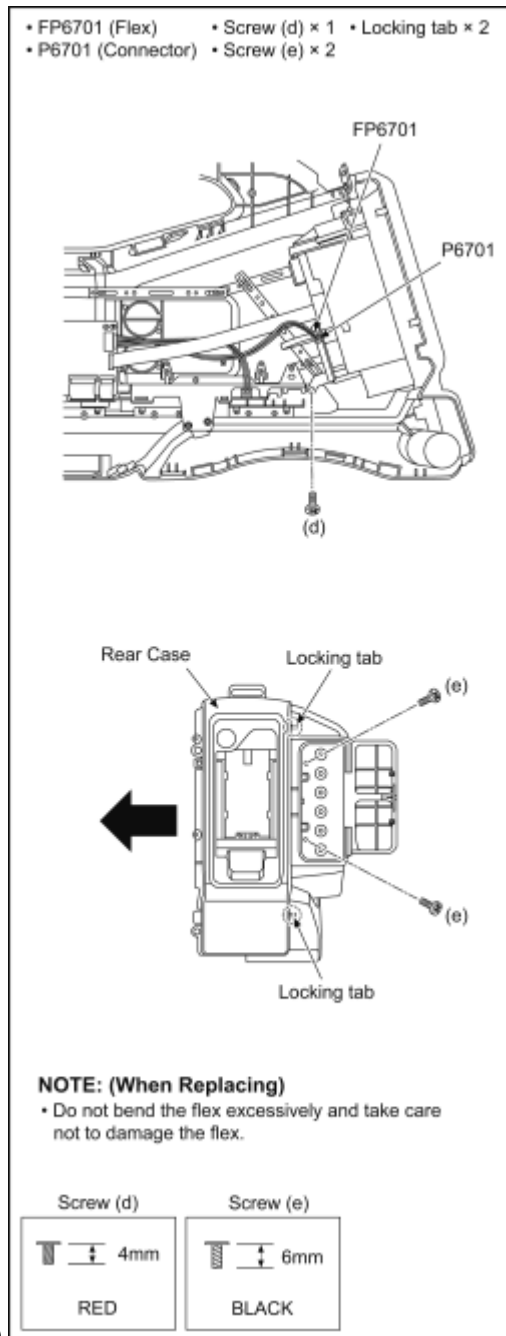
(Fig. D22)

8.3.16 Removal of the Zoom Photo P.C.B.



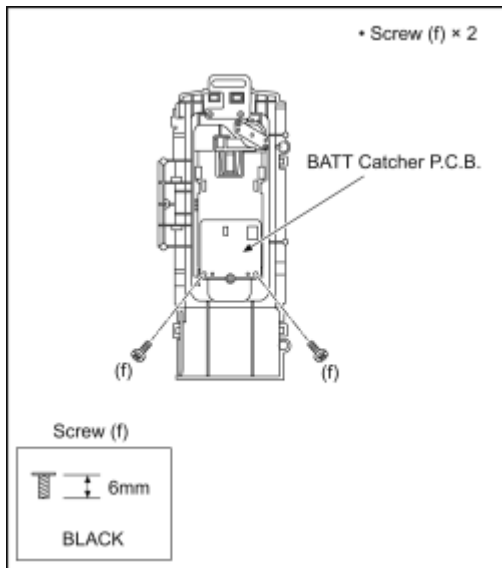
(Fig. D23)

8.3.17 Removal of the Rear Case



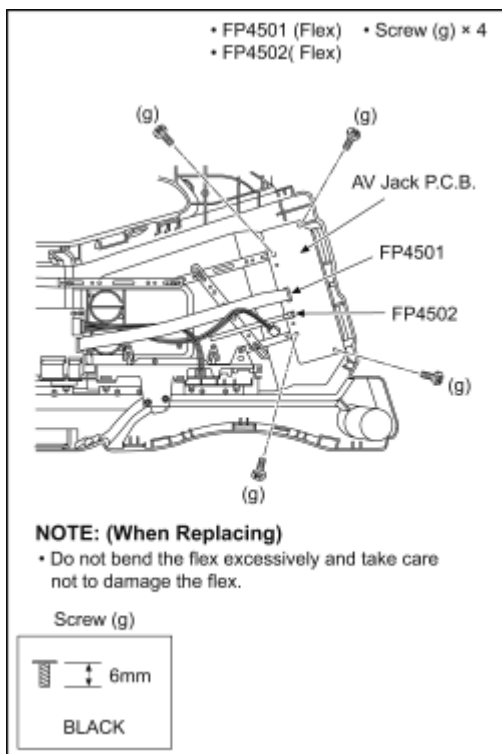
(Fig. D24)

8.3.18 Removal of the BATT Catcher P.C.B.



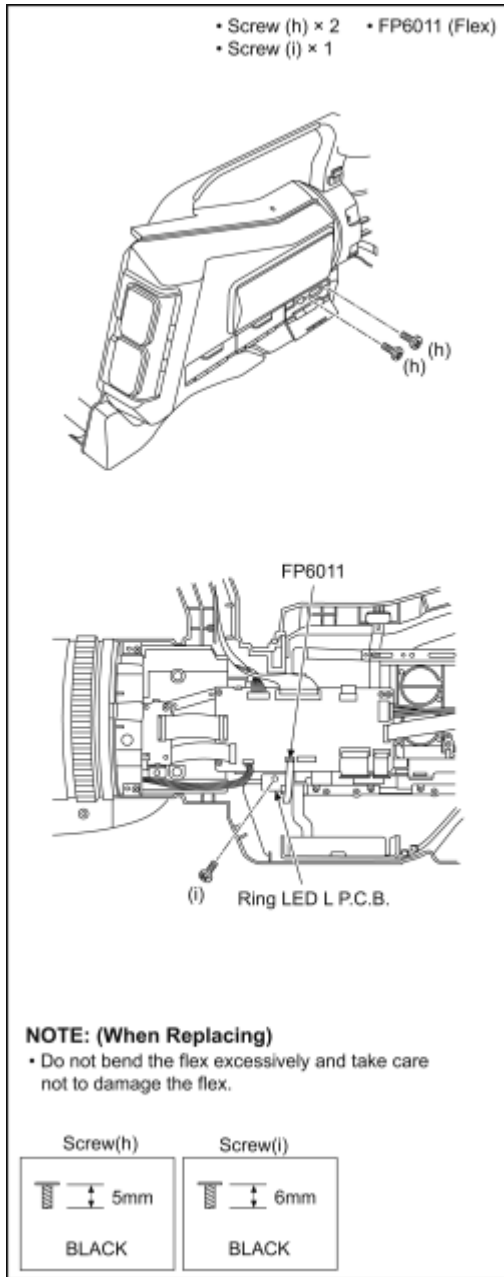
(Fig. D25)

8.3.19 Removal of the AV Jack P.C.B.

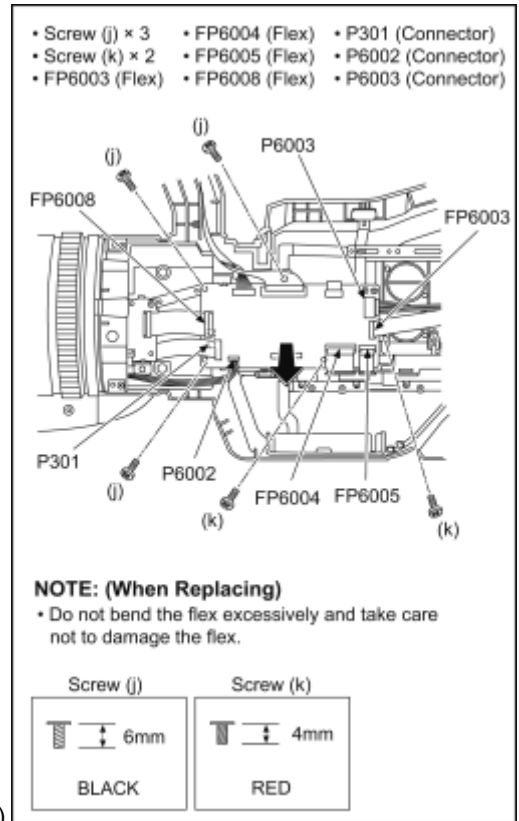


(Fig. D26)

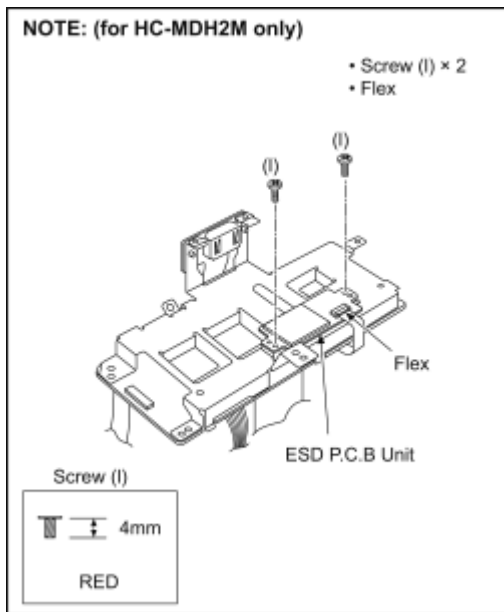
8.3.20 Removal of the Ring LED L P.C.B., ESD P.C.B. Unit (HC-MDH2M only), HDMI FPC Unit and Main P.C.B.



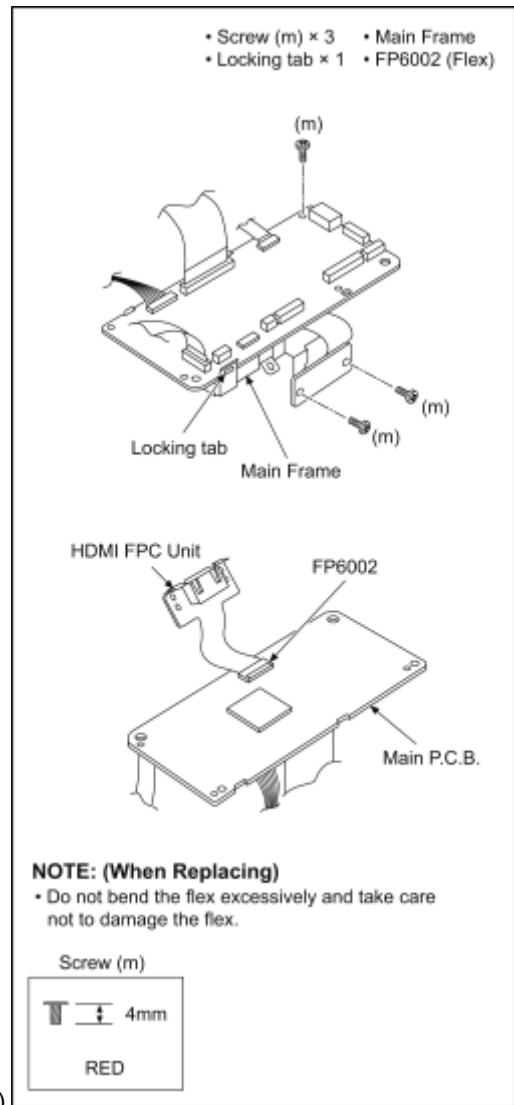
(Fig. D27)



(Fig. D28)

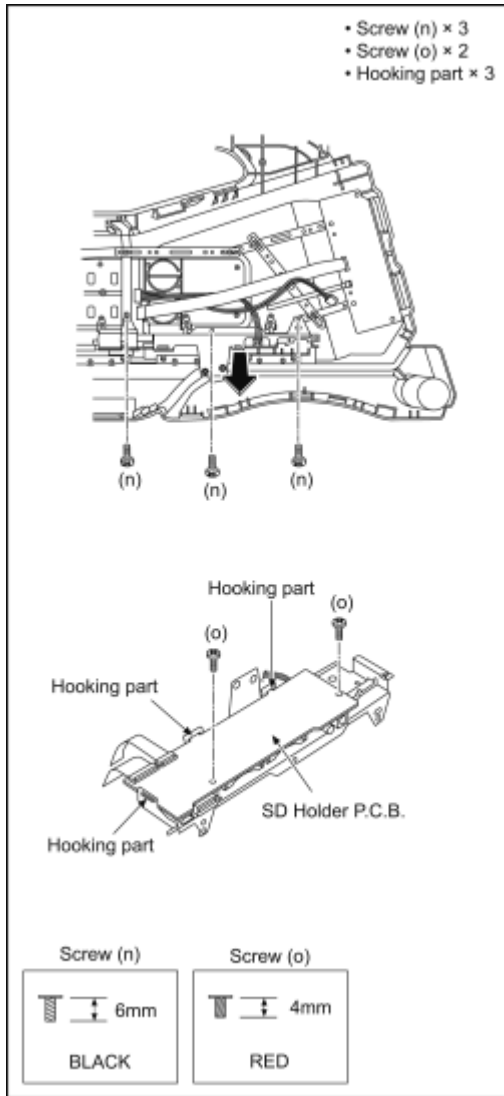


(Fig. D29)



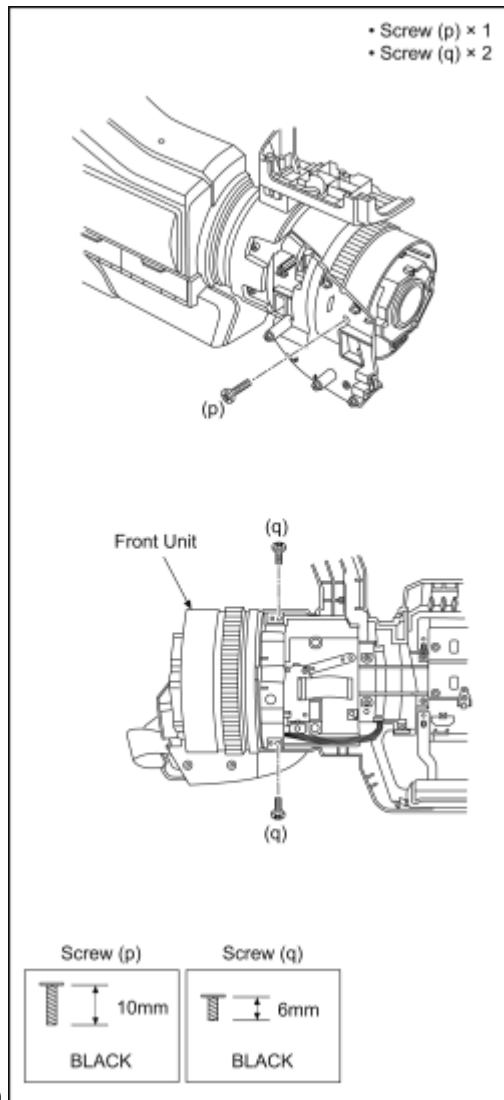
(Fig. D30)

8.3.21 Removal of the SD Holder P.C.B.



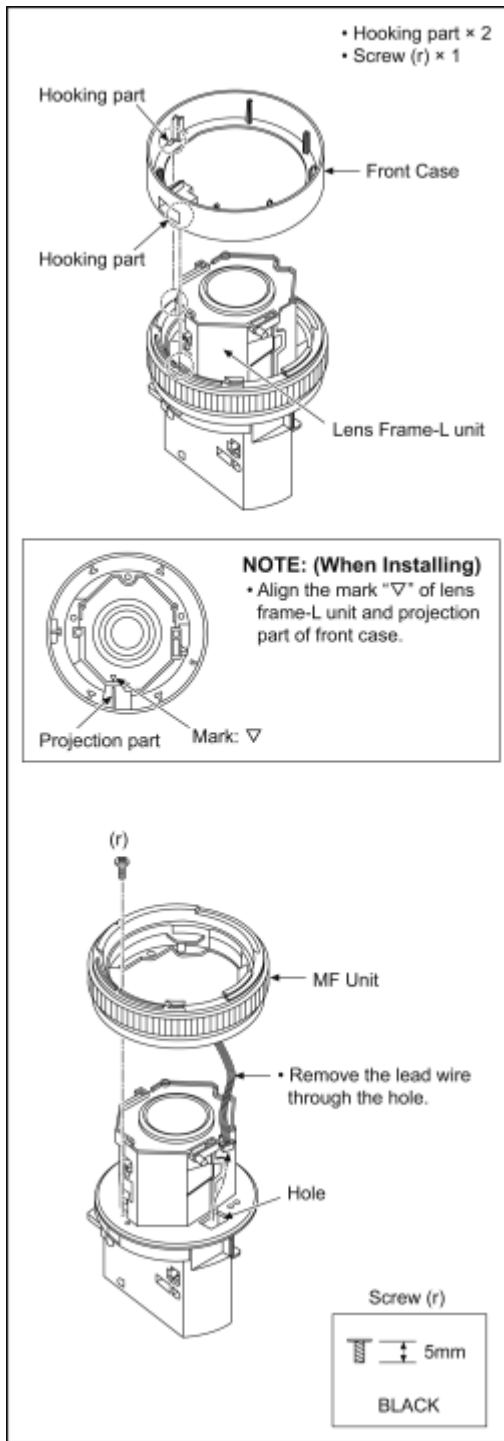
(Fig. D31)

8.3.22 Removal of the Front Unit

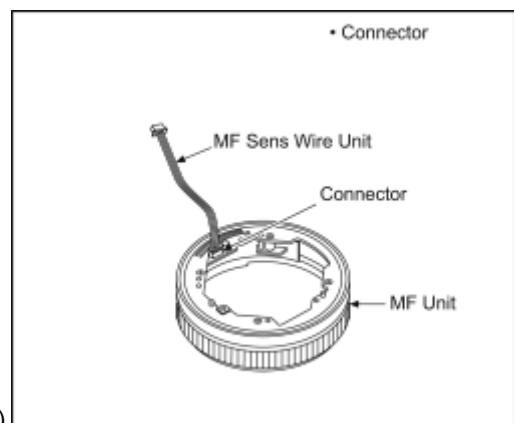


(Fig. D32)

8.3.23 Removal of the Front Case and MF Unit

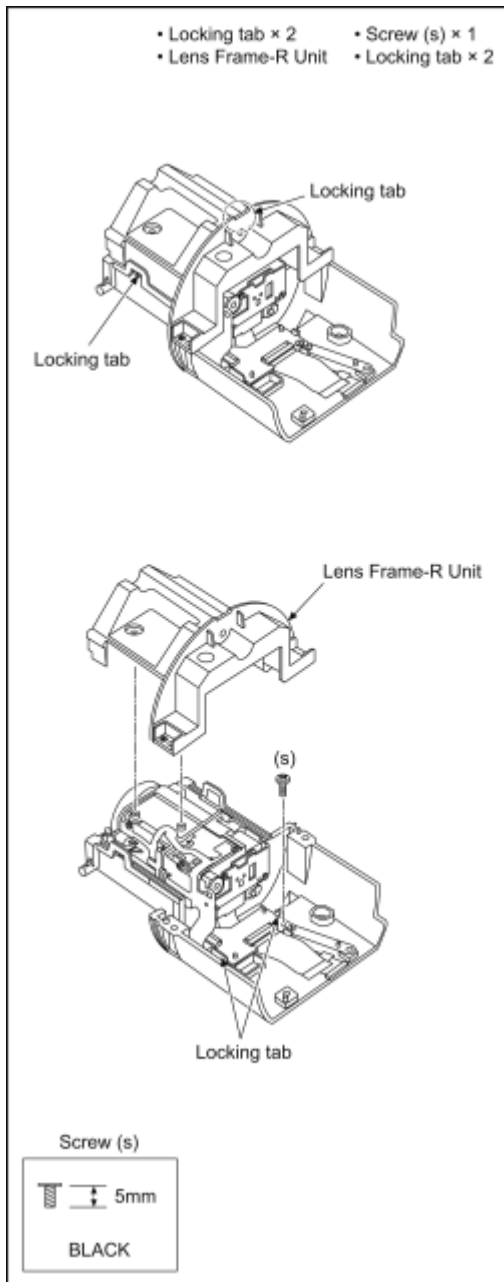


(Fig. D33)

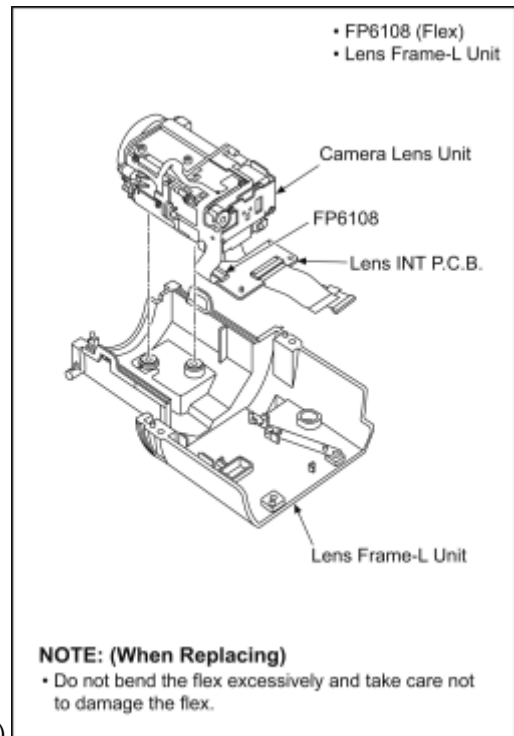


(Fig. D34)

8.3.24 Removal of the Lens INT P.C.B. and Camera Lens Unit

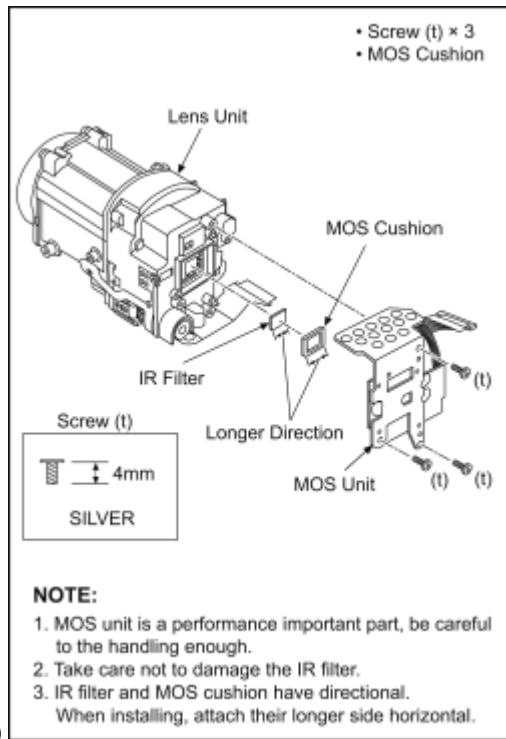


(Fig. D35)



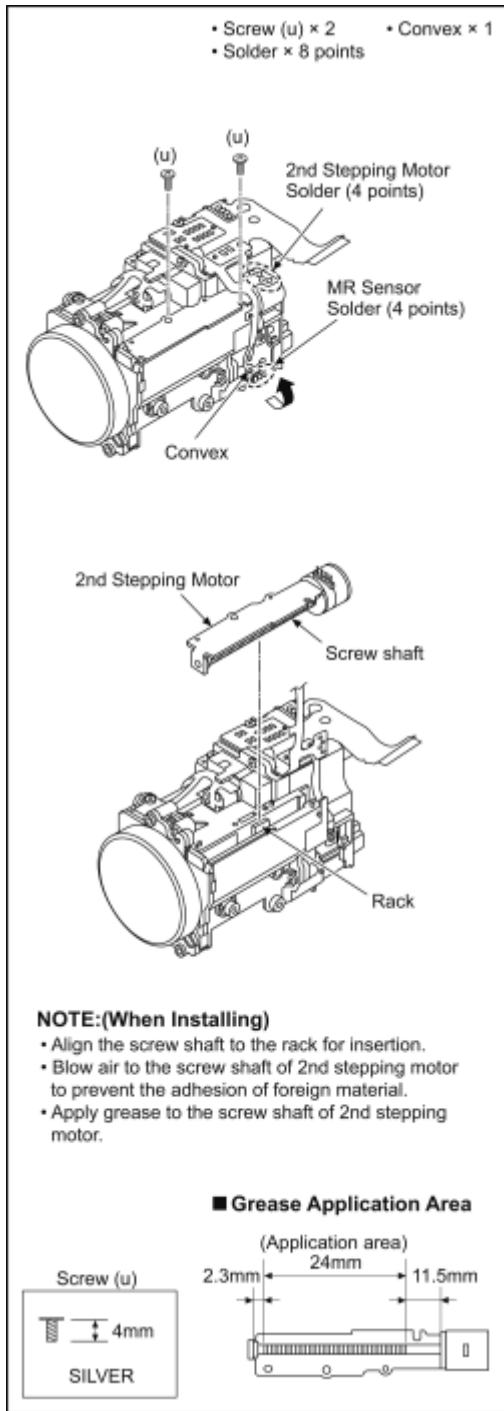
(Fig. D36)

8.3.25 Removal of the MOS Unit, Lens Unit and IR Filter

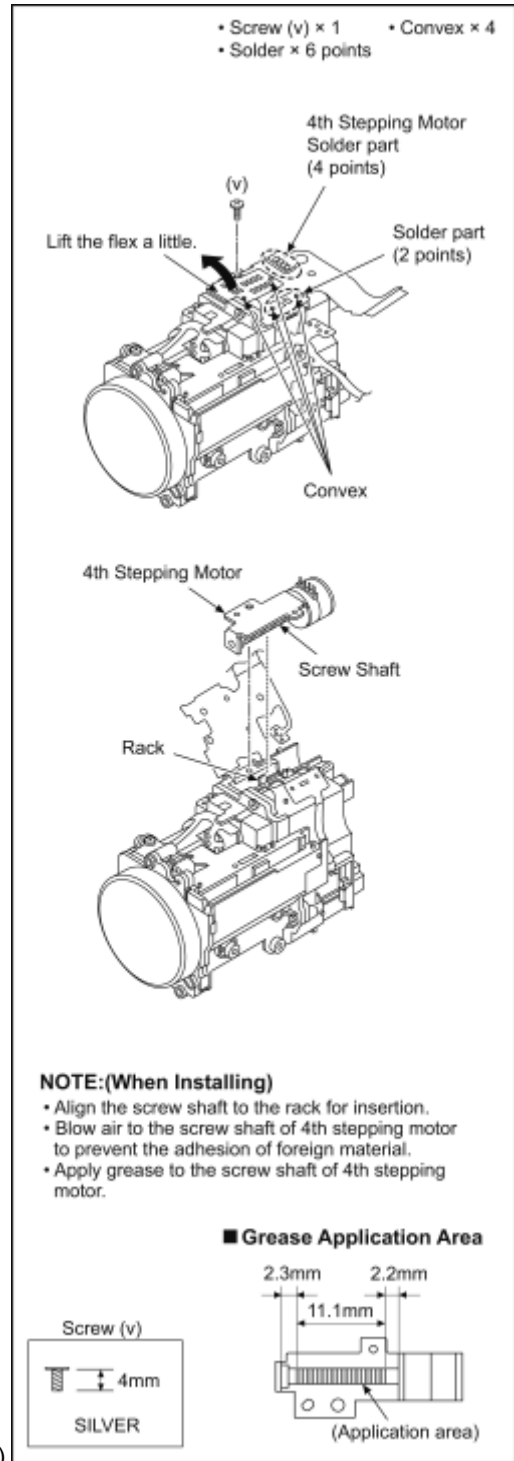


(Fig. D37)

8.3.26 Removal of the 2nd Stepping Motor and 4th Stepping Motor

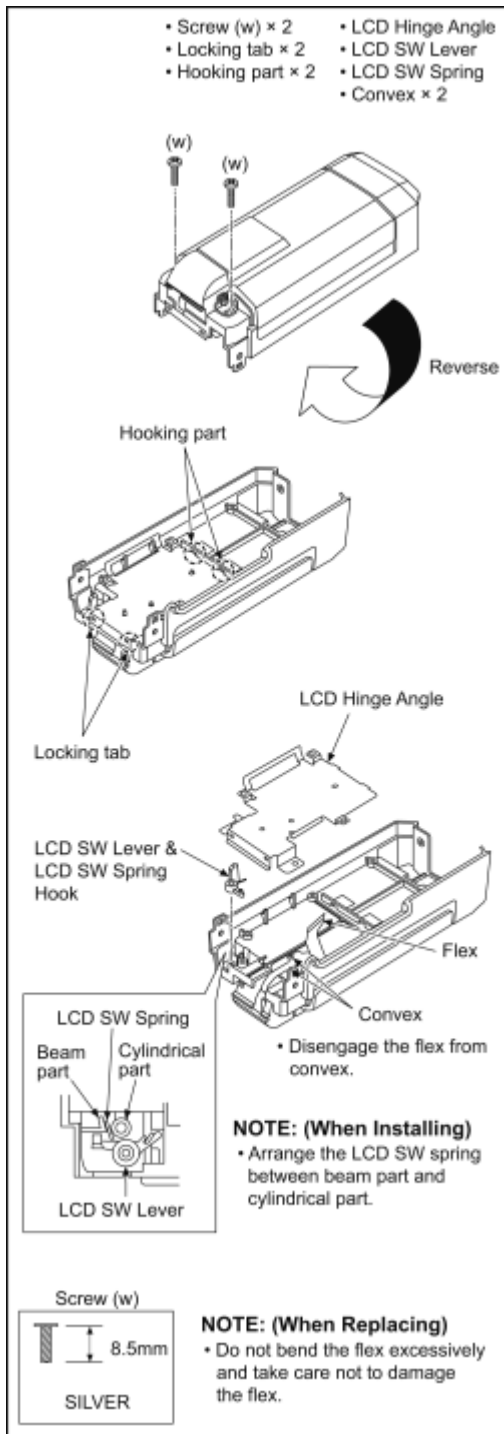


(Fig. D38)

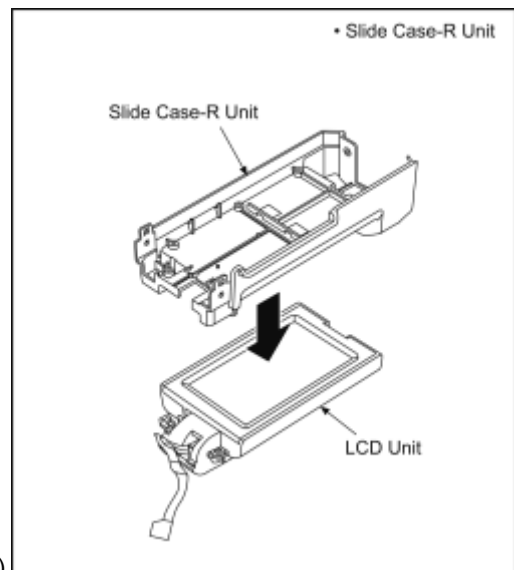


(Fig. D39)

8.3.27 Removal of the LCD Unit

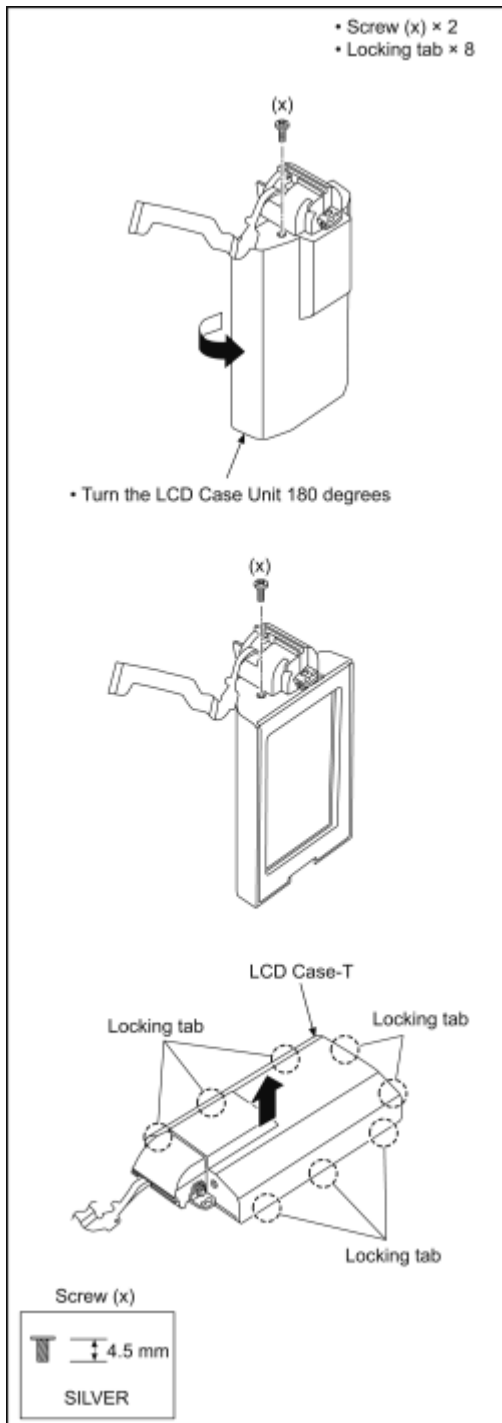


(Fig. D40)

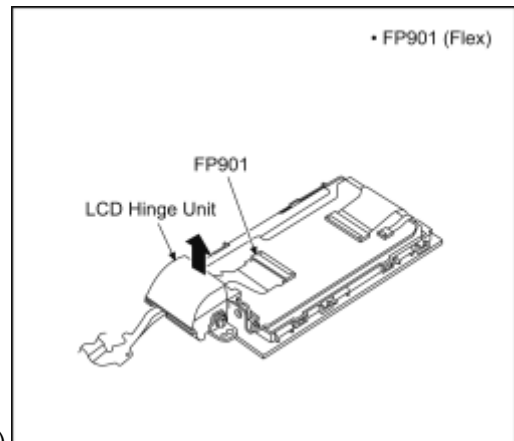


(Fig. D41)

8.3.28 Removal of the LCD Case-T and LCD Hinge Unit

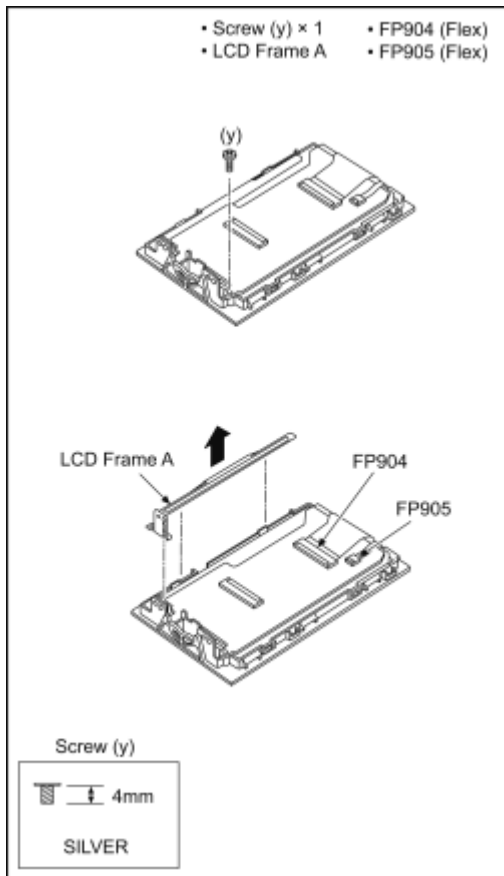


(Fig. D42)

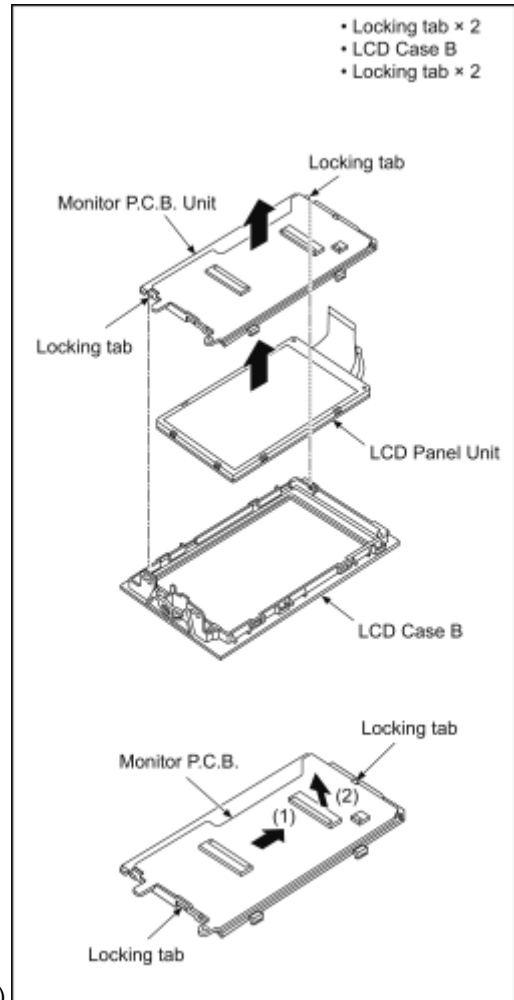


(Fig. D43)

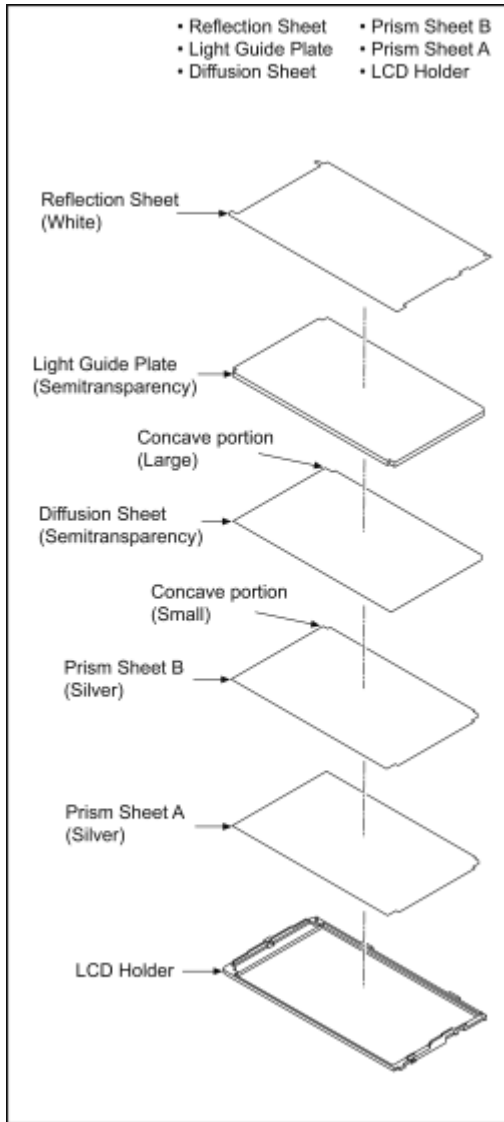
8.3.29 Removal of the LCD Panel Unit and Monitor P.C.B.



(Fig. D44)



(Fig. D45)



(Fig. D46)

9 Measurements and Adjustments

9.1 Electric Adjustment

- Adjustment method is different from a conventional High definition video camera.
- An exclusive jig are necessary for electric adjustment.
- Connection method of the main unit and an exclusive adjustment jig as follows.

Figure of connection

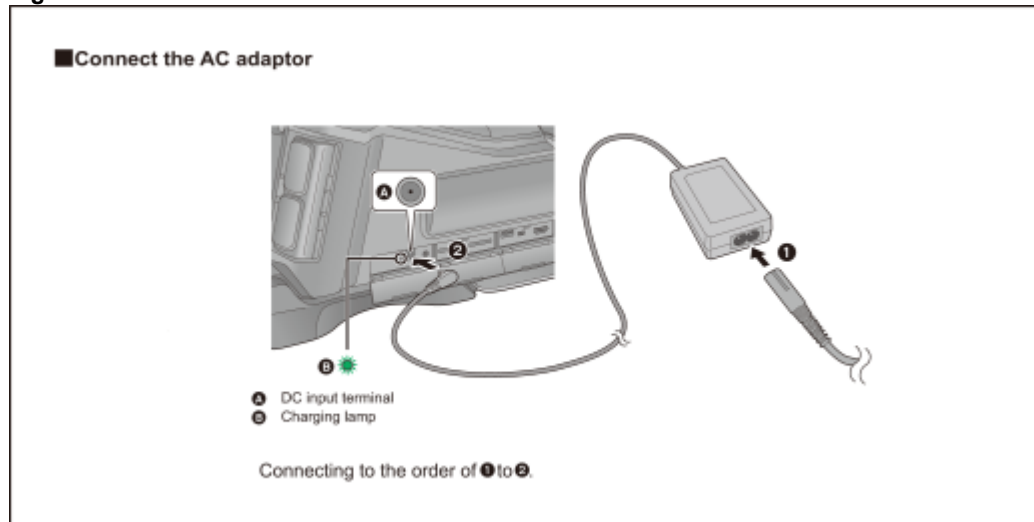
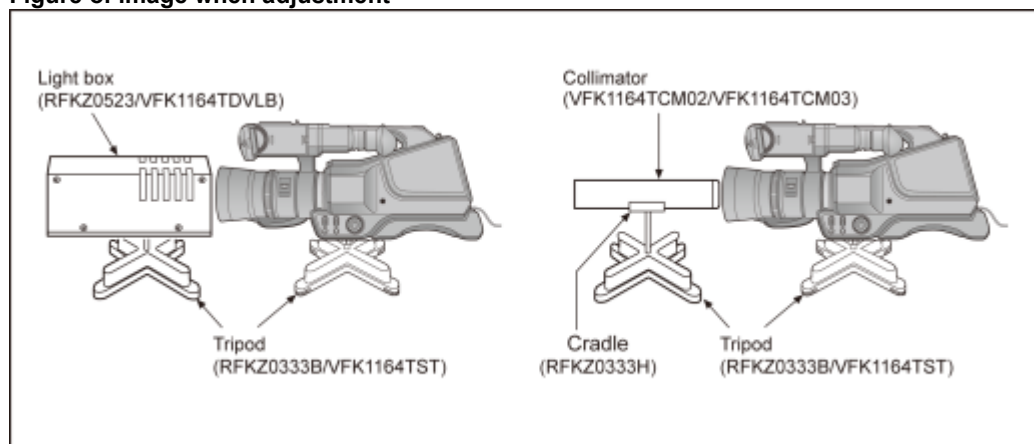


Figure of image when adjustment



Part Number of jig

1. Basic Jig

Item	Contents
AC adaptor	Banded with camcorder
AC Cable	Banded with camcorder

2. Optical Jig for Camera Adjustment

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

			balance adjtment
C2 Filter	5100K	VFK1164LBB2	For outdoor white balance adjustment
C8 Filter	5100K	VFK1164LBB8	For outdoor white balance adjustment
ND Filter 0.1	3100K	VFK1164ND01	For indoor white balance adjustment
ND Filter 0.6	3100K	VFK1164ND06	For indoor white balance adjustment
Adjustment chart for Level Shot	Banded with this Manual		For Level shot adjustment

* RFKZ0523 (same as DSC) is recommended.

[Level Shot Adjutment Chart]

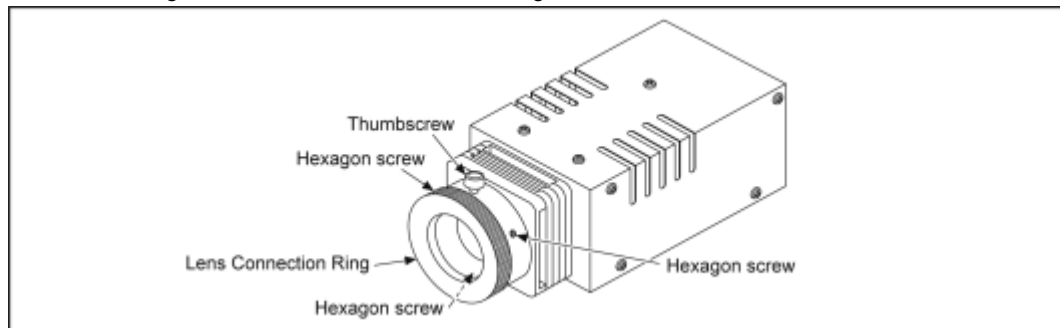


9.1.1 About Light Box

When using VFK1164TDVLB Light Box

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

* RFKZ0523 Light Box has no lens connection ring.

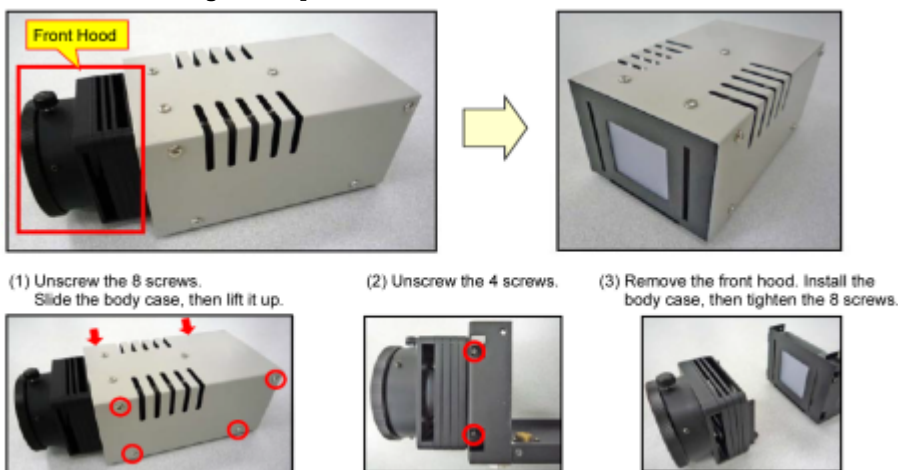


How to remove the Front Hood

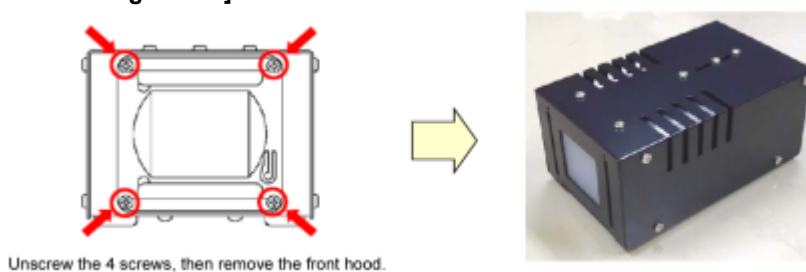
In order to utilize maximum of the diffusing surface of light box, some adjustment items need the distance between diffusing surface of light box and camera body becomes several cent-meters.

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

[For VFK1164TDVLB Light Box]



[For RFKZ0523 Light Box]



9.1.2 Adjustment Items

Adjustment item as follows.

Replacement part	Adjustment item	Adjustments						Settings		
		Camera Adjustments ^{*1} (Automatic)	Zoom Tracking Adjustment	Zoom Lever Offset Adjustment	Indoor White Balance Adjustment	Outdoor White Balance Adjustment	Level Shot adjustment ^{*2}	Touch Panel Calibration	Model setting	Factory settings
MAIN P.C.B.		○	○	○	○	○	○	-	○	○
	IC701 LENS DRIVE IC	○	○	-	-	-	-	-	-	-
	IC751 ROLL GYRO	○	-	-	-	-	-	-	-	-
	IC1001 7CH DC/DC IC	○	○	○	○	○	-	-	-	-
	IC1421 REG 3V IC	○	○	○	○	○	-	-	-	-
	IC3403 FLASH ROM	○	○	○	○	○	○	-	○	○
SS GYRO P.C.B.		○	-	-	-	-	○	-	-	-
	IC6401 PIT/YAW GYRO	○	-	-	-	-	○	-	-	-
	IC6411 ACCELEROMETER	-	-	-	-	-	○	-	-	-
ZOOM PHOTO P.C.B.		-	-	○	-	-	○	-	-	-
MF SENSE P.C.B.		-	-	-	-	-	○	-	-	-
LENS INT P.C.B.		-	-	-	-	-	○	-	-	-
LENS UNIT		○	○	-	○	○	○	-	-	-
MOS UNIT		○	○	-	○	○	○	-	-	-
LCD U		-	-	-	-	-	-	○	-	-

*1...IRIS adjustment, OIS hall amp adjustment, Missing pixels compensation, OIS gyro adjustment, AGS adjustment

*2...Accelerometer : Since the assembly is accompanied, always need to be adjusted.

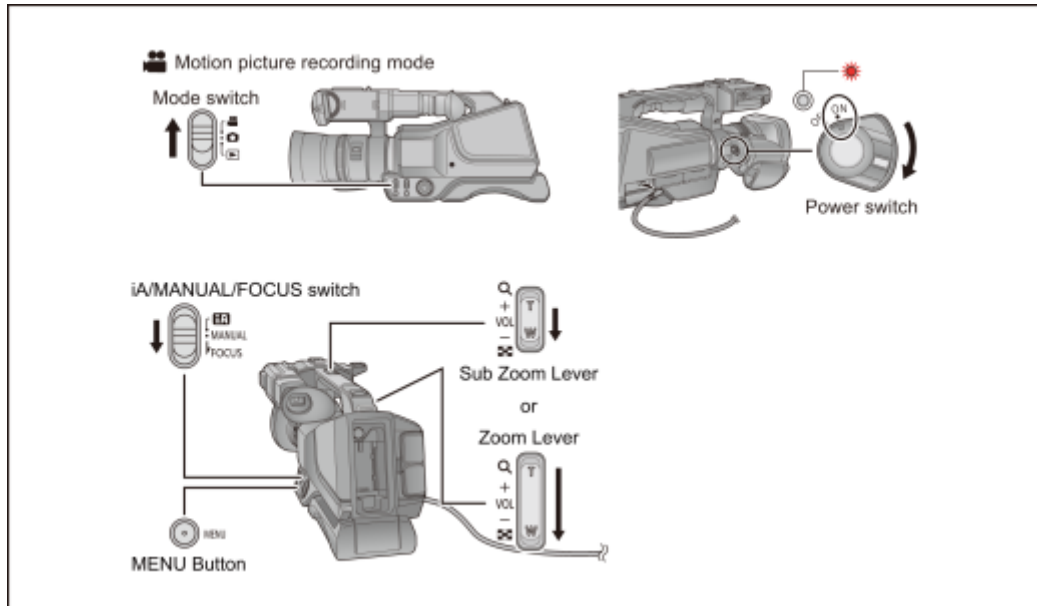
9.1.3 Adjustment Procedure

All adjustments except "Touch Panel Calibration" and "Factory Setting" performs using "14 Adjustment function for the service" in service mode menu.

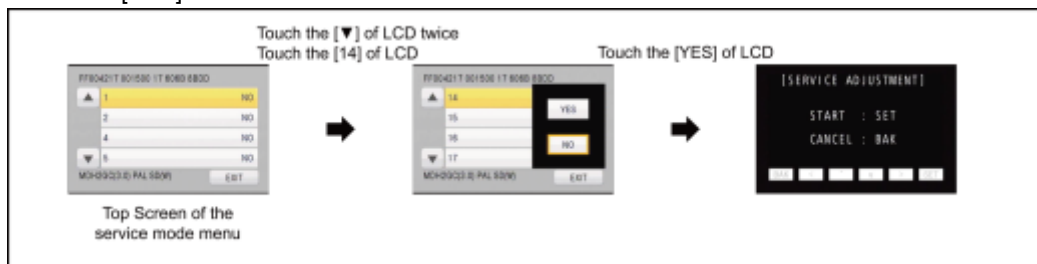
"Touch Panel Calibration" is performed using 16 of service mode menu and "Factory Setting" is performed using 1, of service mode menu. Refer to "6 Service mode" and "10 Factory Setting".

[Execute adjustment function for service]

1. Set the mode switch "Motion Picture Recording" mode.
2. Set the power switch to ON, and turn to ON.
3. Keep pressing the "iA/MANUAL/FOCUS" switch to "FOCUS" side, "MENU" button and "Zoom Lever" (or "Sub Zoom Lever")
to W side for more than 3 seconds until the top screen of the Service Mode Menu being displayed.



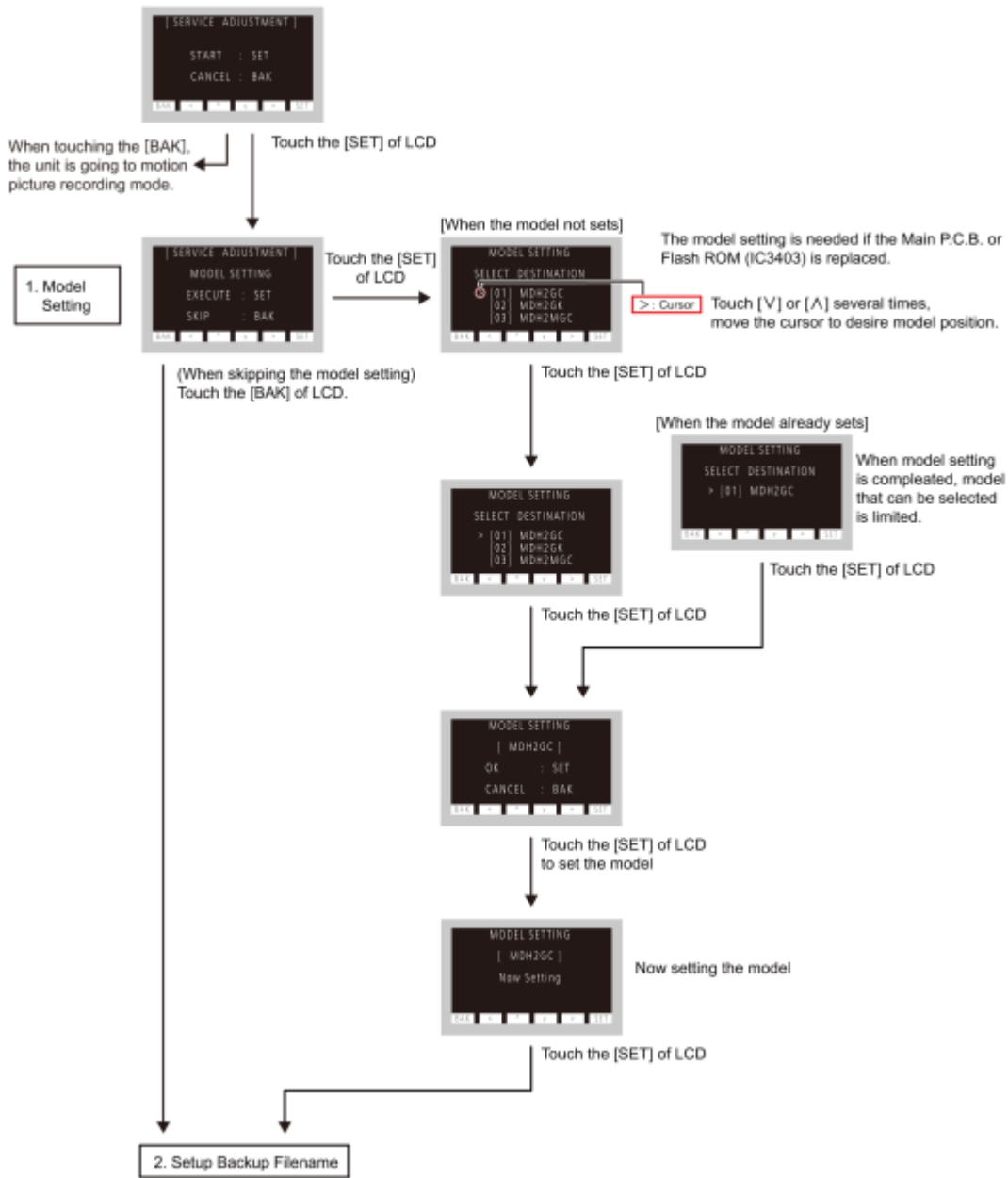
4. Touch the ▼ twice then touch the [14] of LCD.
5. Touch the [YES] of LCD.

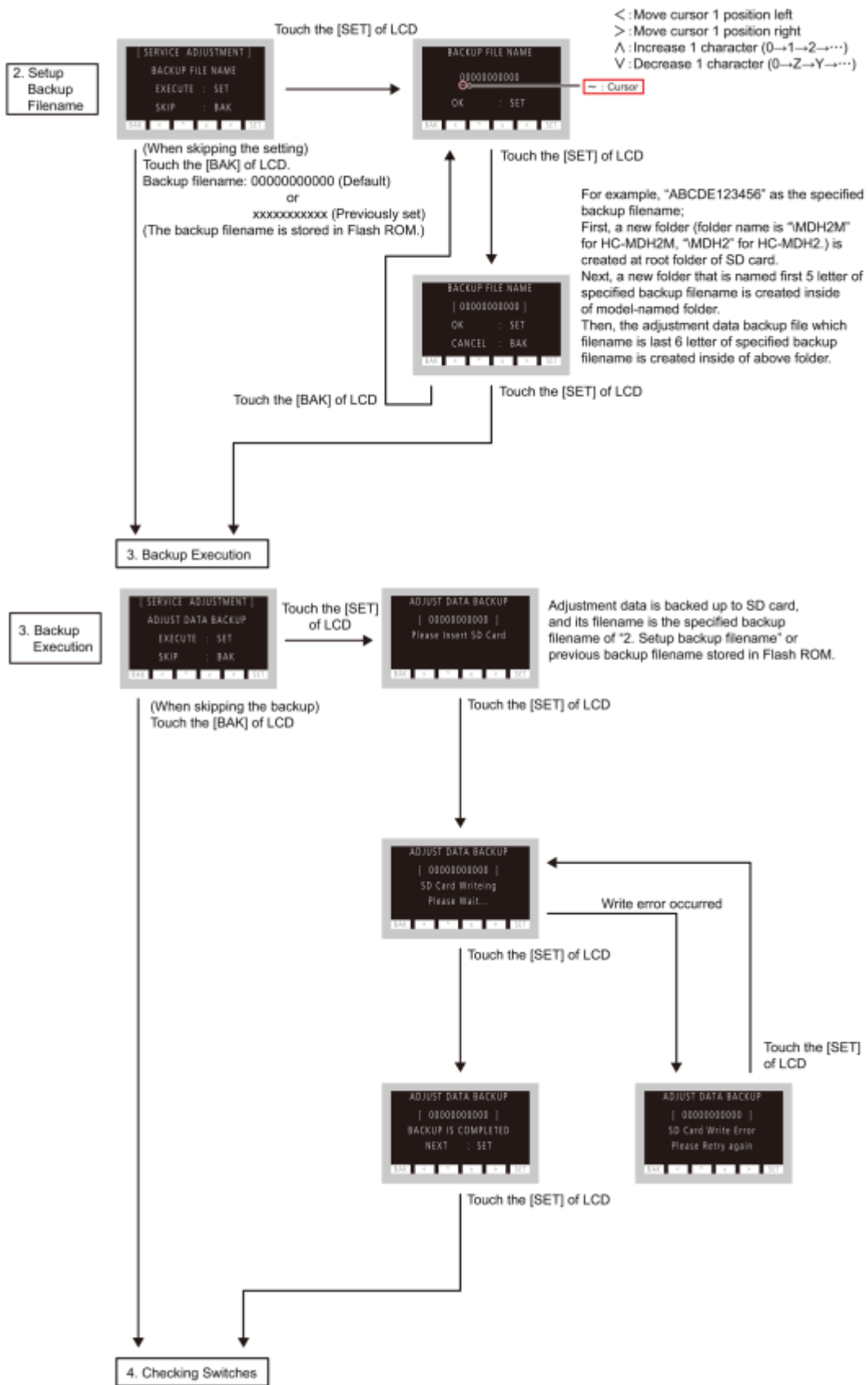


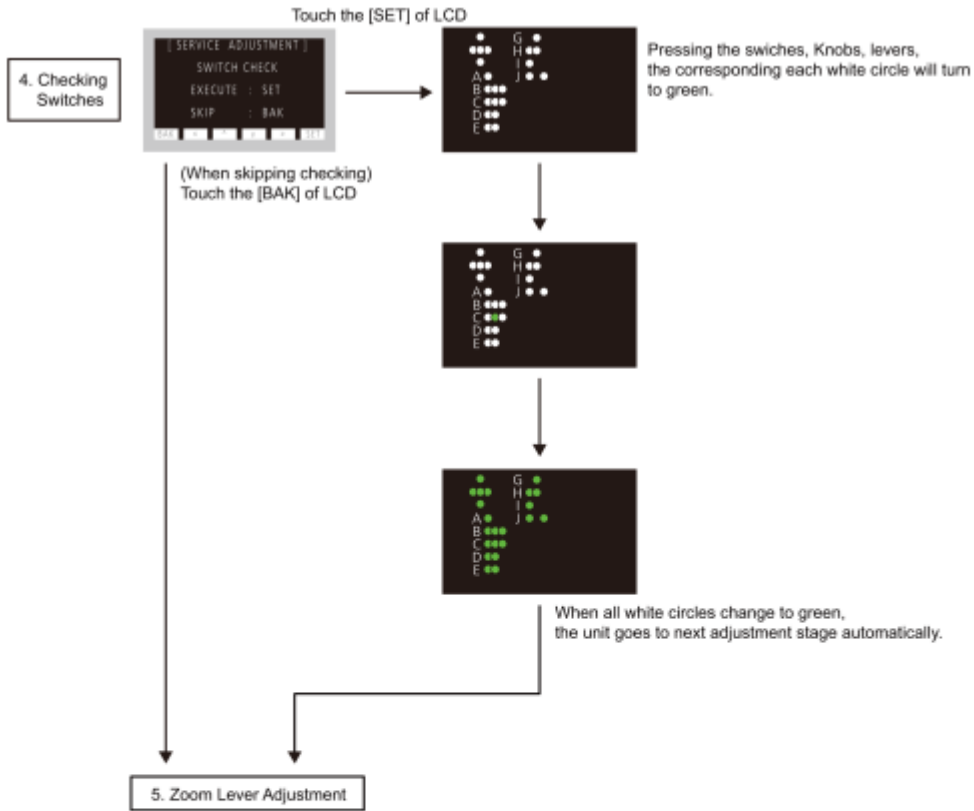
[Adjustment Procedure]

Adjustments and settings are performed following order:

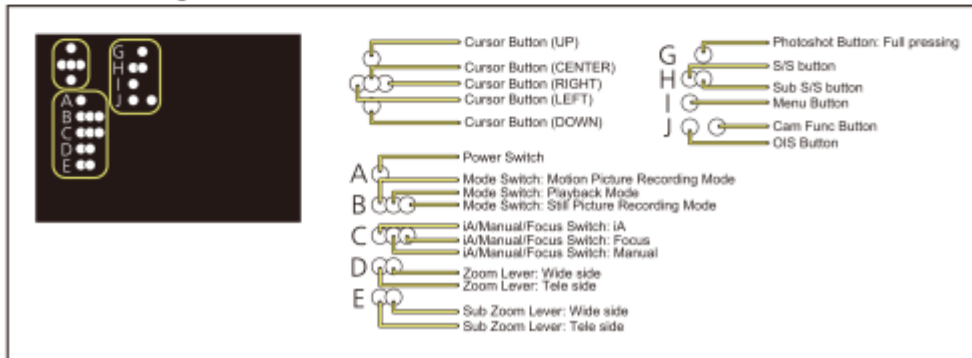
1. Model setting
2. Filename setting for backup to SD card
3. Backing up adjustment data to SD card
4. Checking switches
5. Zoom lever adjustment
6. Camera adjustment (Iris, Gyro, OIS, Missing pixels compensation)
7. Zoom/tracking adjustment
8. Indoor white balance adjustment (CH GAIN, PWM, WB)
9. Outdoor white balance adjustment (PWM, WB)
10. Level shot adjustment

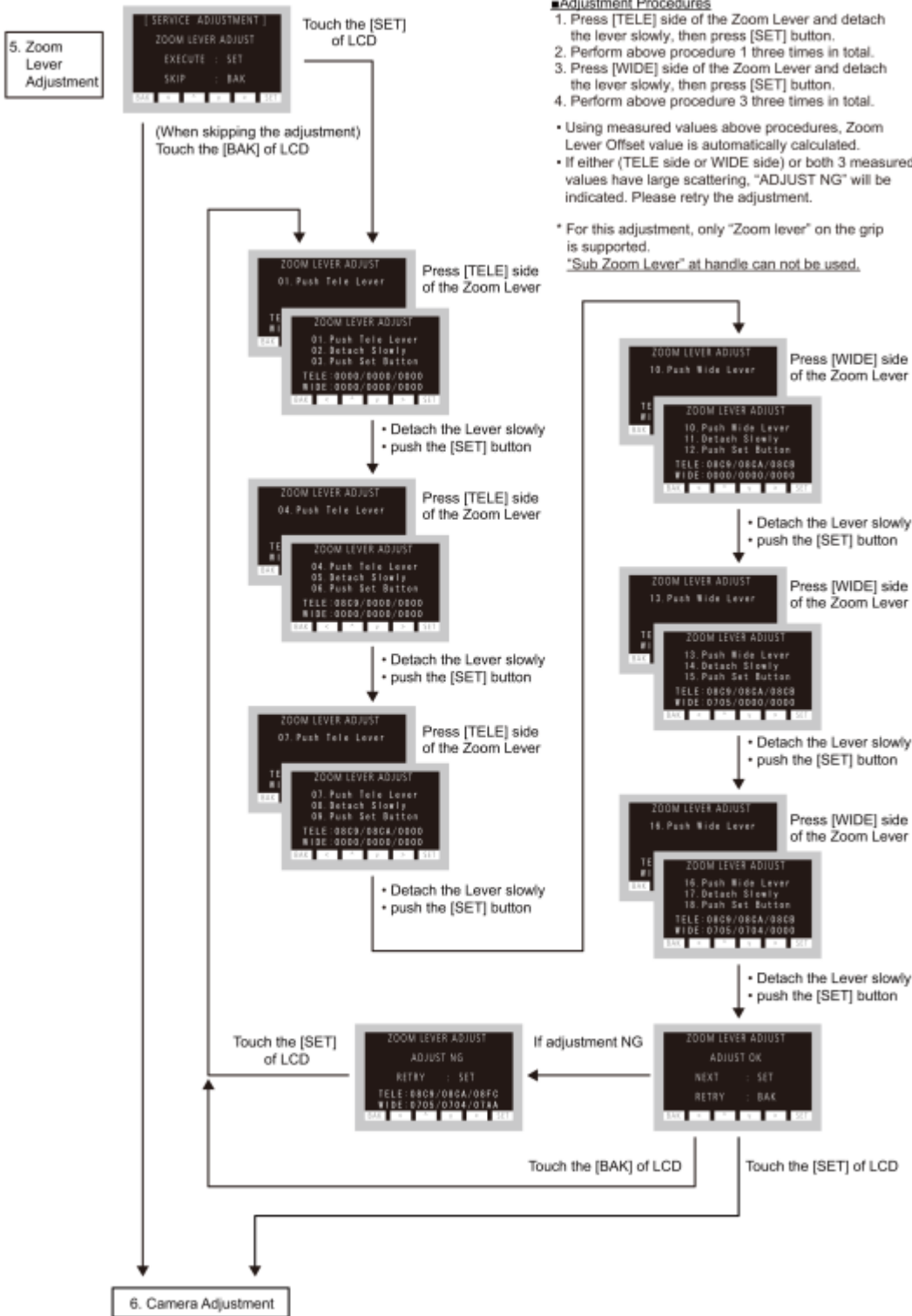


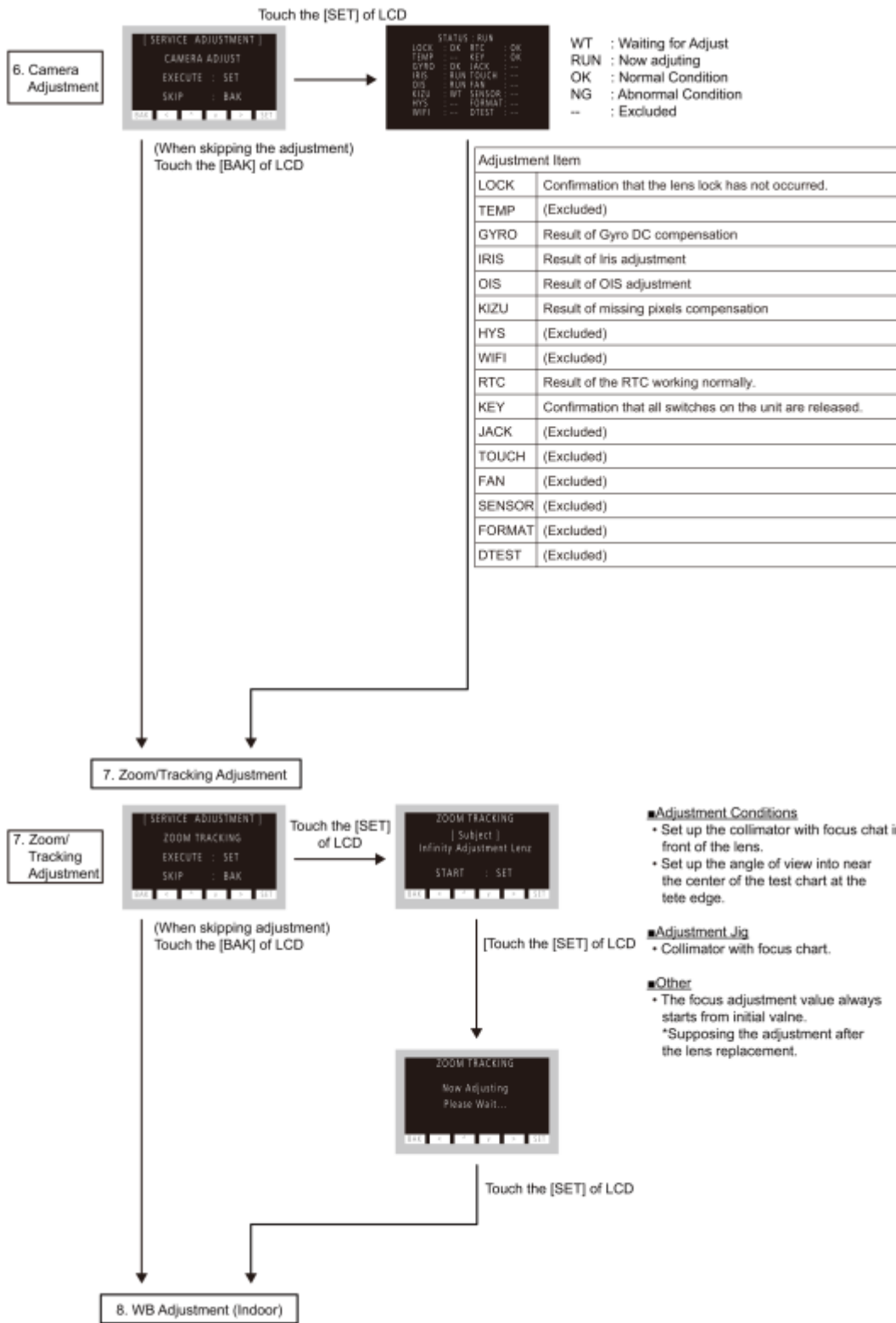


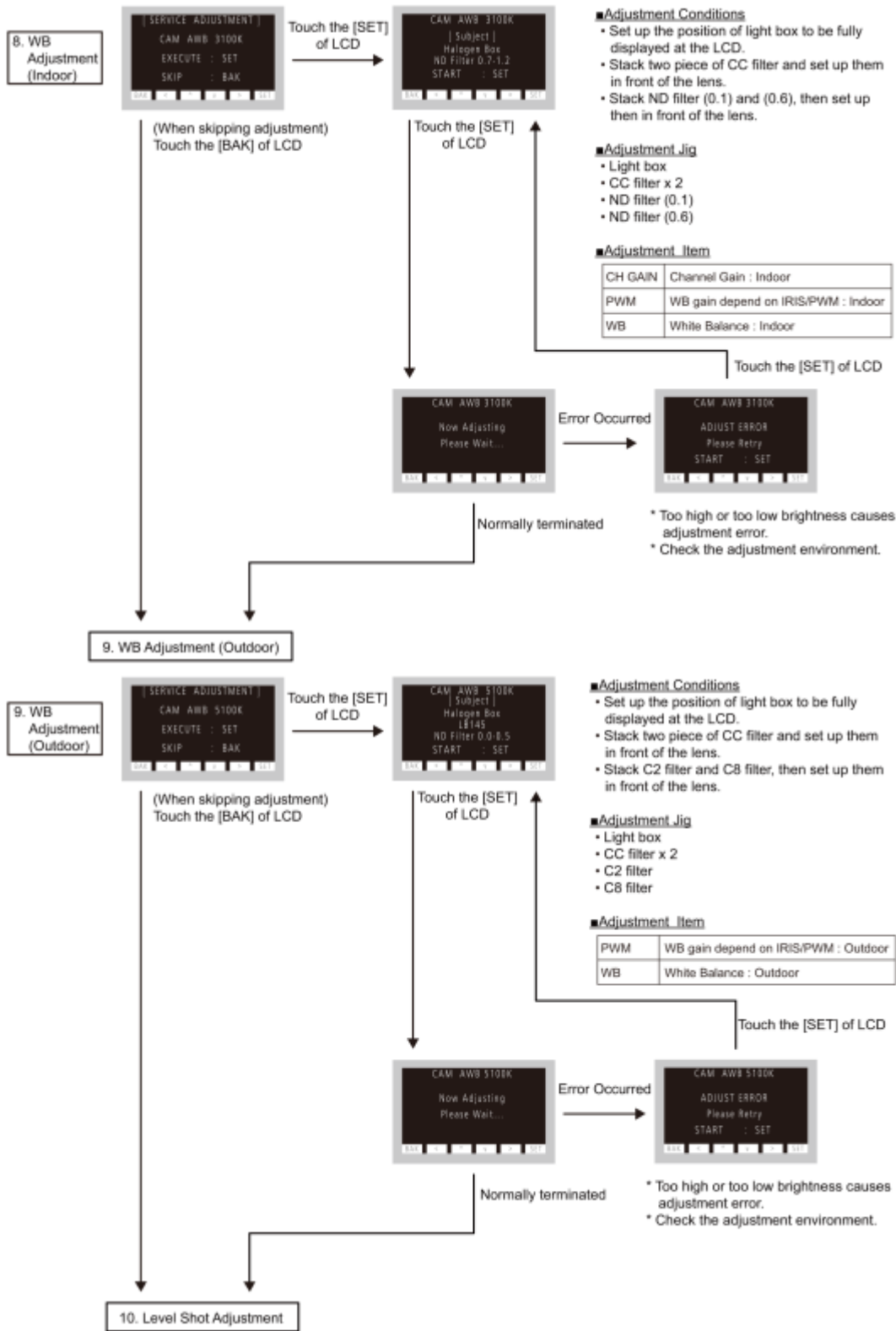


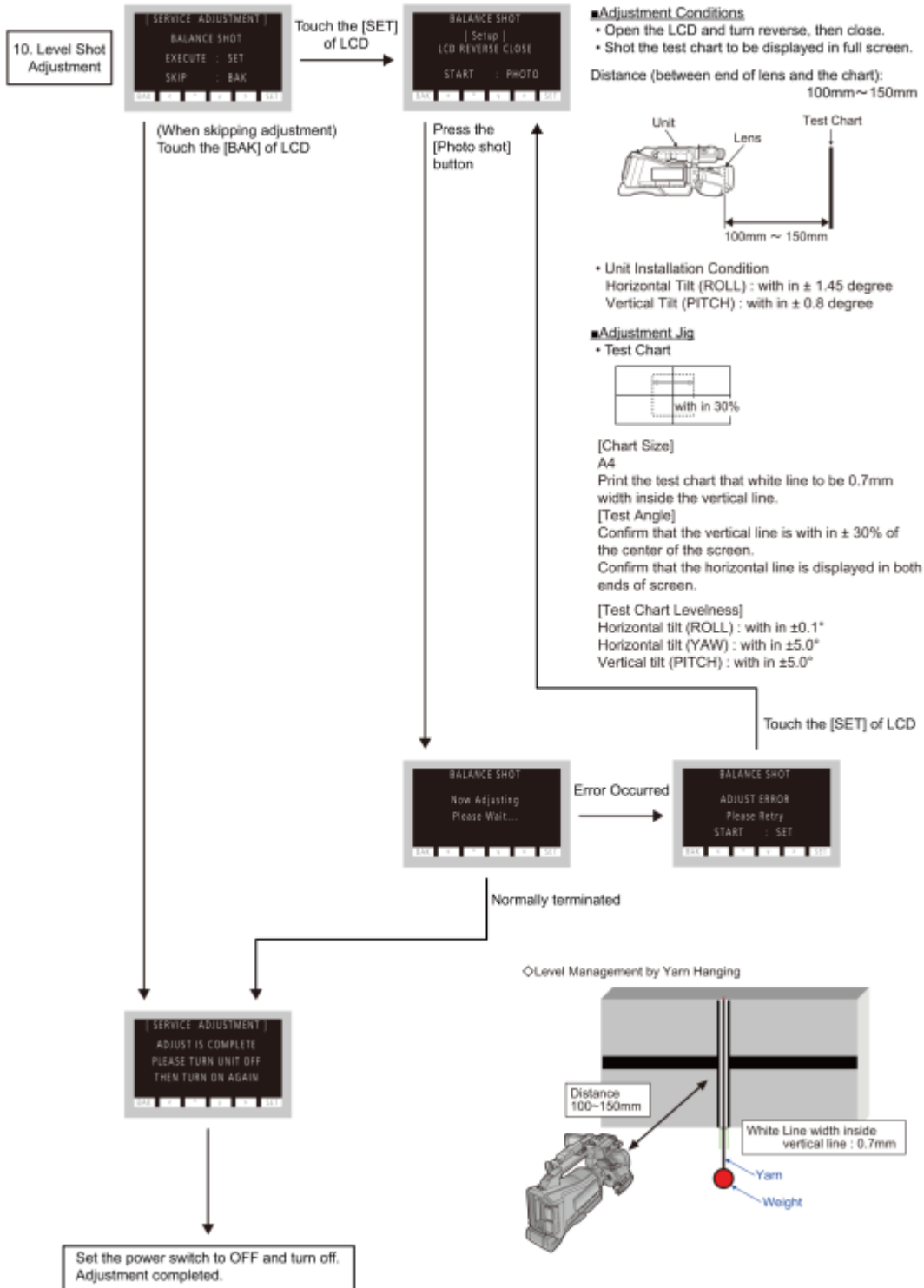
< Switches arrangement >







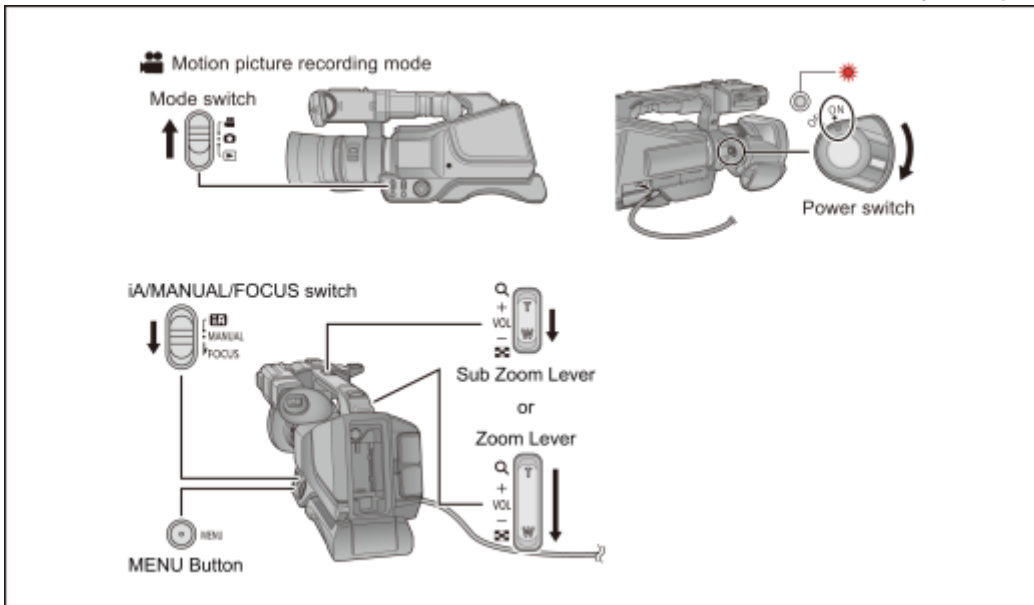




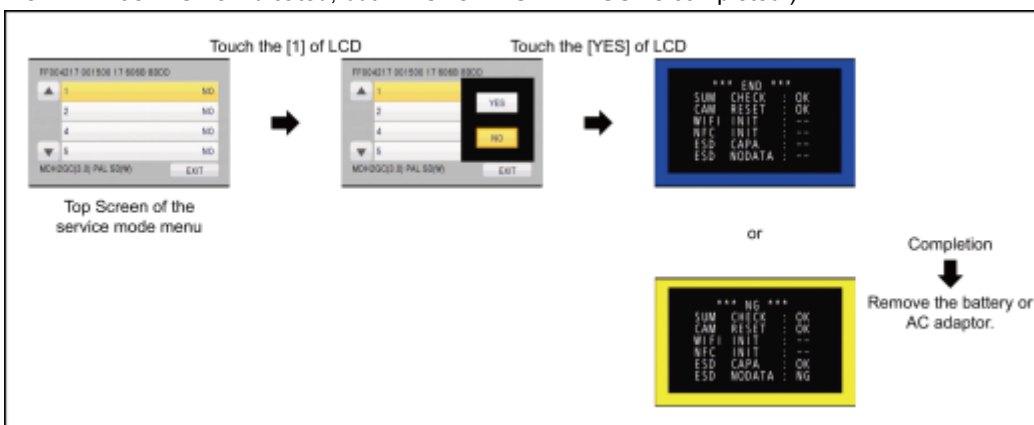
10 Factory Setting

10.1 How To Turn On The Factory Settings?

1. Set the mode switch "Motion Picture Recording" mode.
2. Set the power switch to ON, and turn to ON.
3. Keep pressing the "iA/MANUAL/FOCUS" switch to "FOCUS" side, "MENU" button and "Zoom Lever" (or "Sub Zoom Lever") to W side for more than 3 seconds until the top screen of the Service Mode Menu being displayed.



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



10.2 What Is The Factory Settings?

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

1. MENU, MODE, ADJUSTMENT VALUE.
2. Reset the folder number and file number of still pictures.

(Setting the folder number is 100, and file number is 0.)

3. Clear the time and date setting.
4. Initialize the VIERA Link Physical Address.
5. Confirm that the data area of built-in memory is cleared. (HC-MDH2M only)
6. Confirm that the built-in memory capacity is correct. (HC-MDH2M only)
(Checking of the built-in memory mounting error.)

(HC-MDH2M)

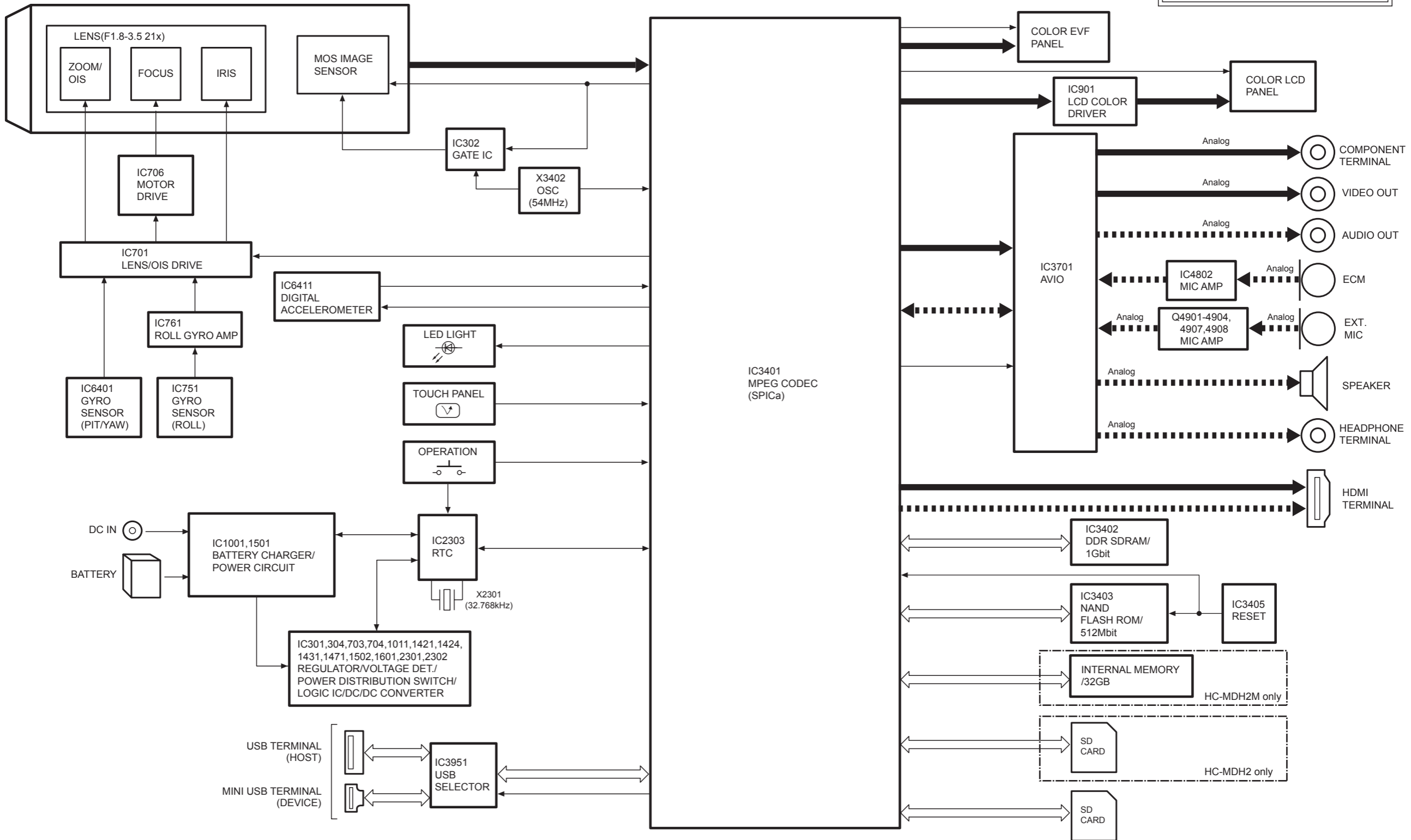
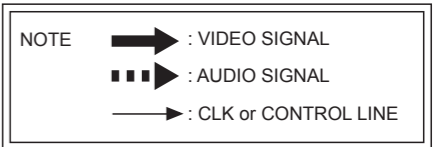
If the "Factory Settings" is completed, physical format of the build-in memory is not performed, execute physical format according to the following procedure.

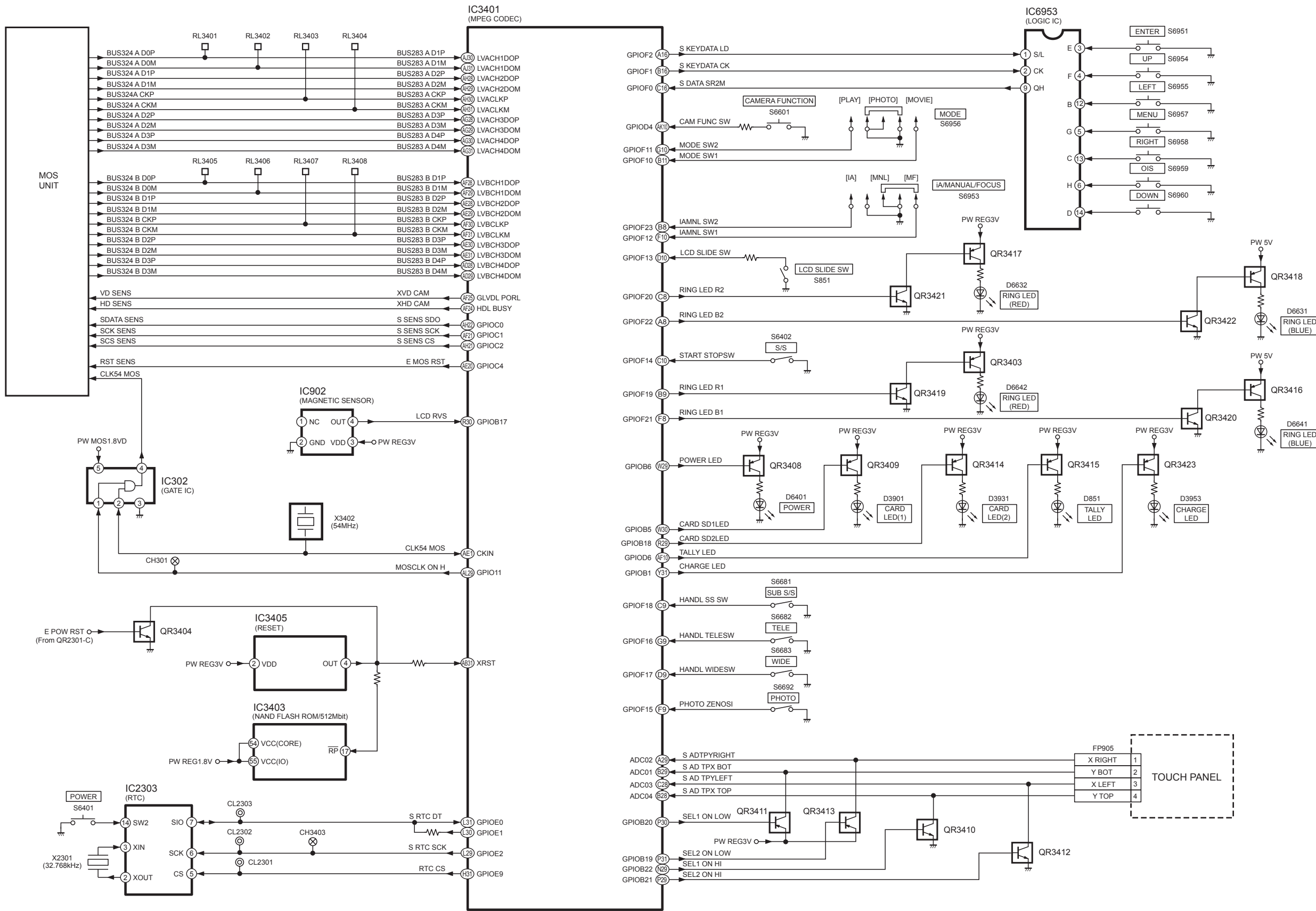
To physically format the built-in memory, connect the unit via the AC adaptor, select [OTHER FUNCTION] → [FORMAT MEDIA] → [Built-inMemory] from the menu, and then press and hold the recording start/stop button on the screen below for about 3 seconds. When the built-in memory data deletion screen appears,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



**The shipment setting position of switches and lever:
(After the factory settings, set the switches and lever as following table.)**

Name	Setting position
Mode switch	Motion picture recording mode
iA/MANUAL/FOCUS switch	[iA] position
Power switch	[Off] position
Eyepiece corrector lever	[Shortsighted End] position

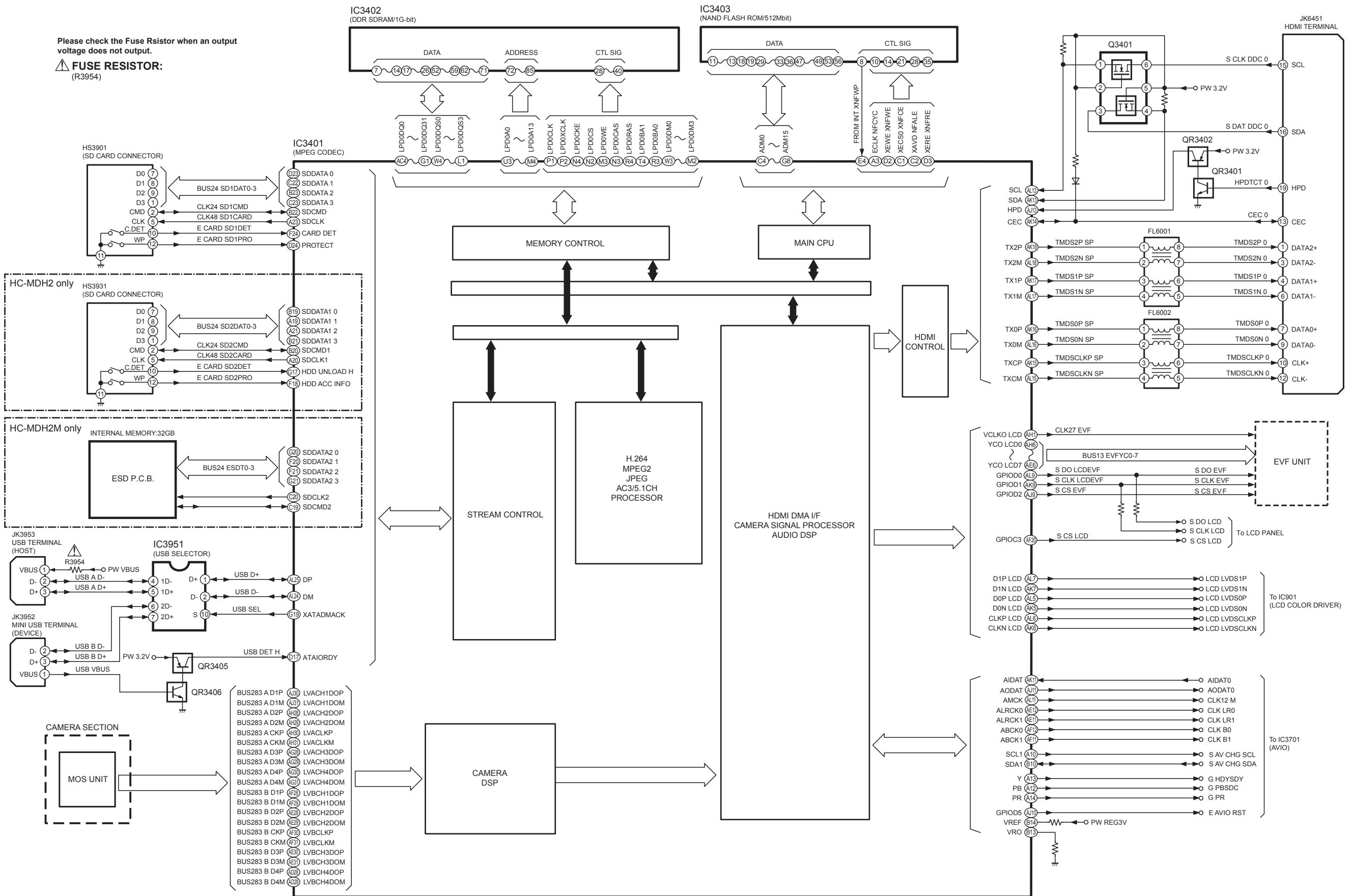


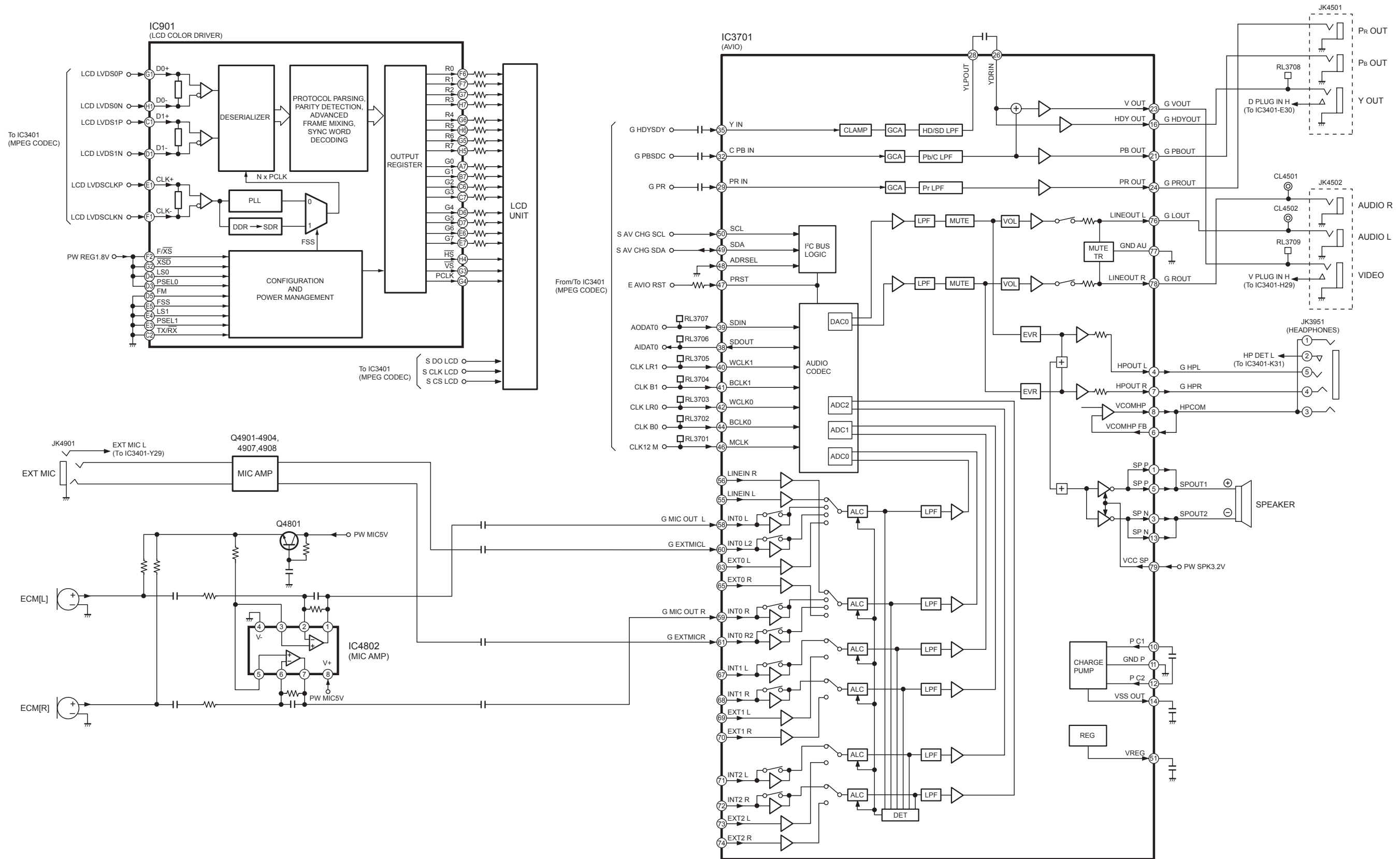


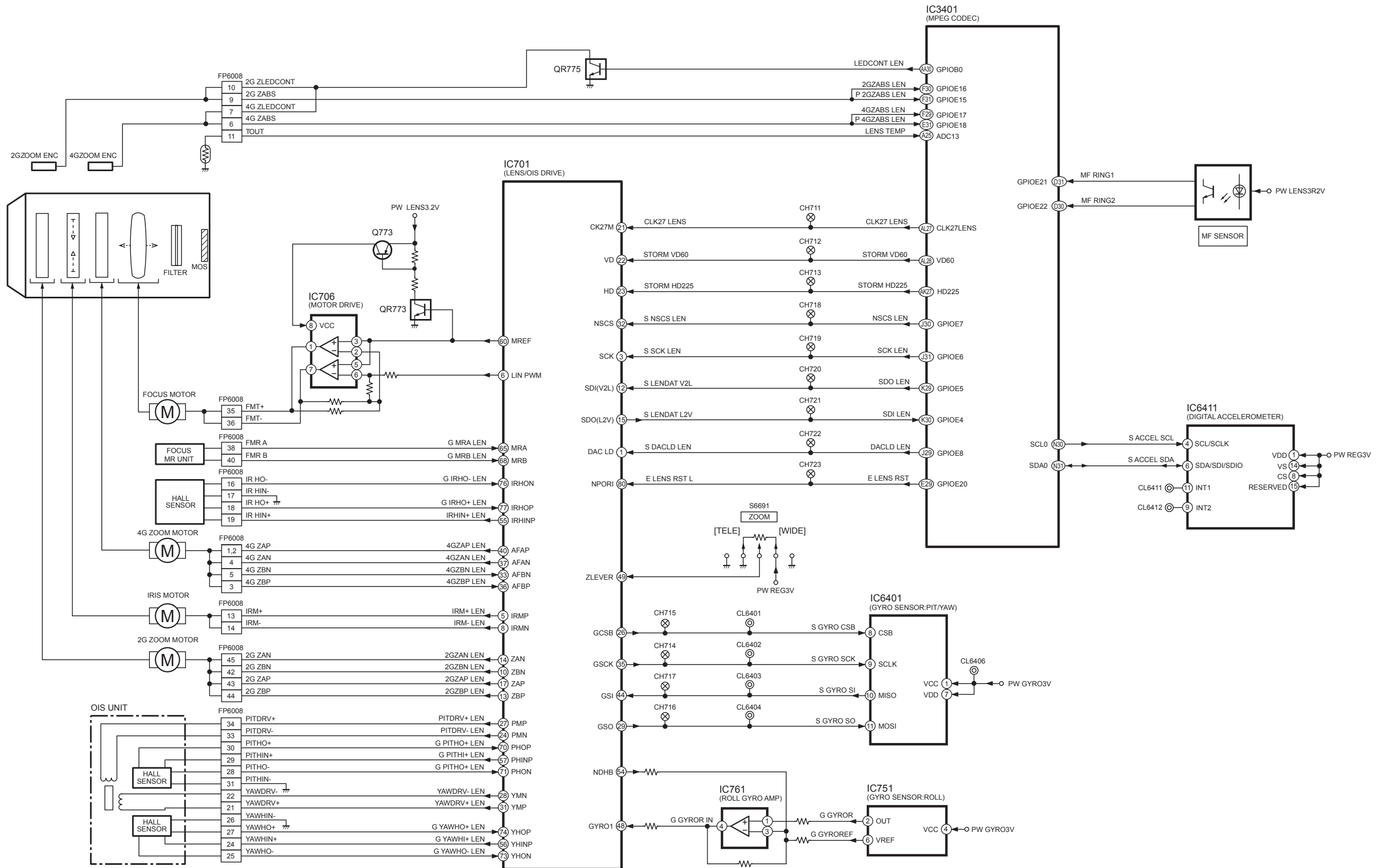
HC-MDH2/MDH2M CAMERA/SYSTEM CONTROL CIRCUIT BLOCK DIAGRAM

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

FUSE RESISTOR:
(R3954)





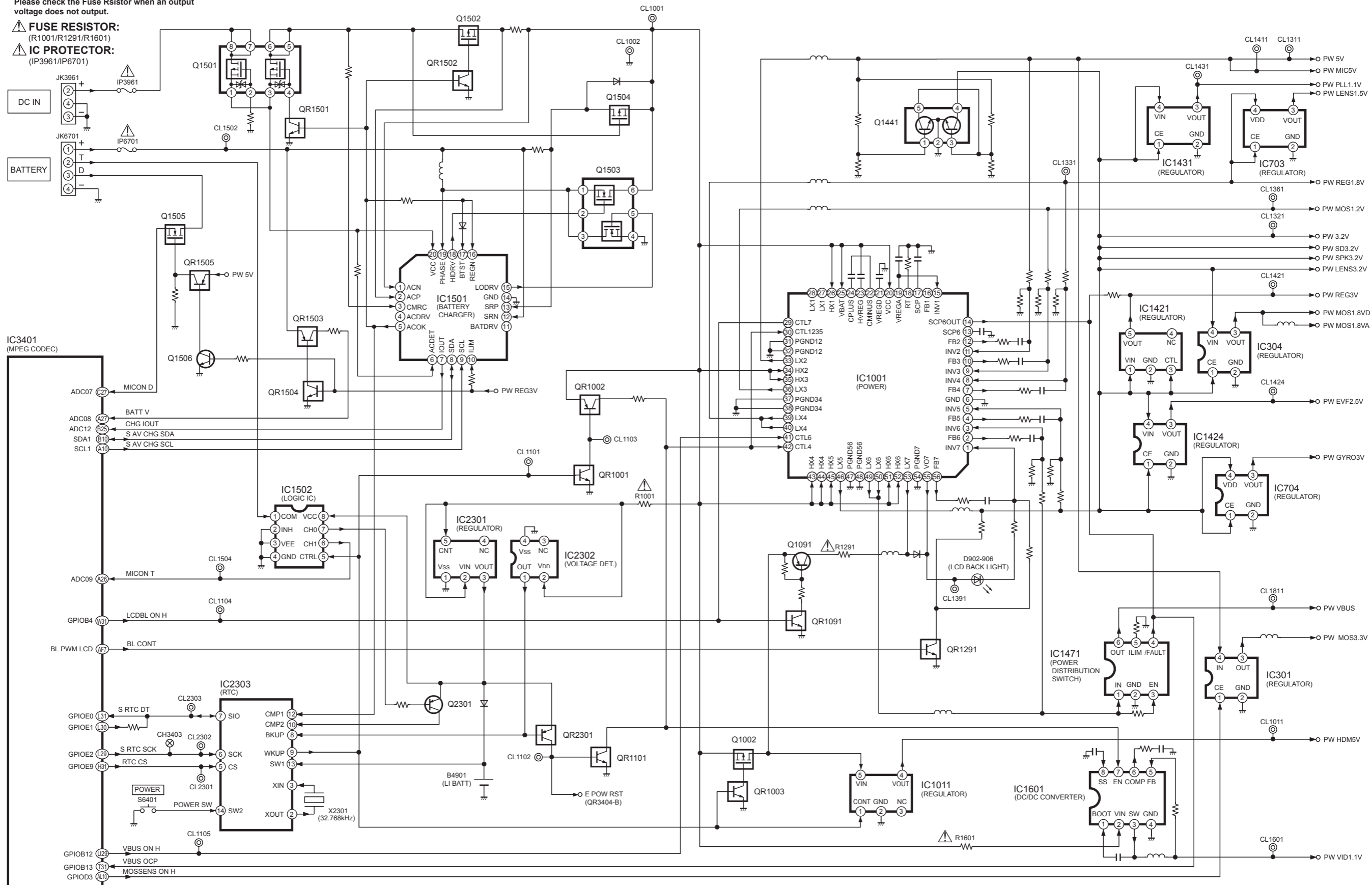


HC-MDH2/MDH2M LENS DRIVE CIRCUIT BLOCK DIAGRAM

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

FUSE RESISTOR:
(R1001/R1291/R1601)

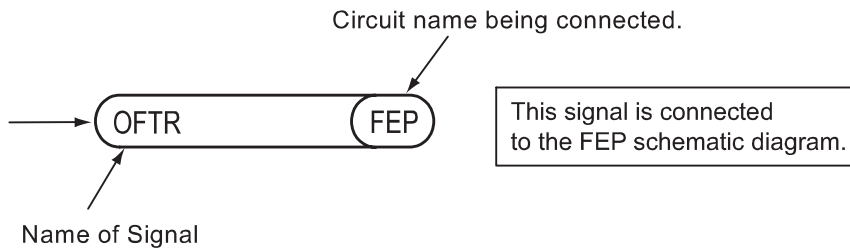
IC PROTECTOR:
(IP3961/IP6701)



IMPORTANT SAFETY NOTICE:

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

1. Although reference number of the parts is indicated on the P.C.B. drawing and/or schematic diagrams, it is NOT mounted on the P.C.B. when it is displayed with "\$" mark.
2. It is only the "Test Round" and no terminal (Pin) is available on the P.C.B. when the TP (Test Point) indicated as "●" mark.
3. Use the parts number indicated on the Replacement Parts List .
4. Indication on Schematic diagrams:

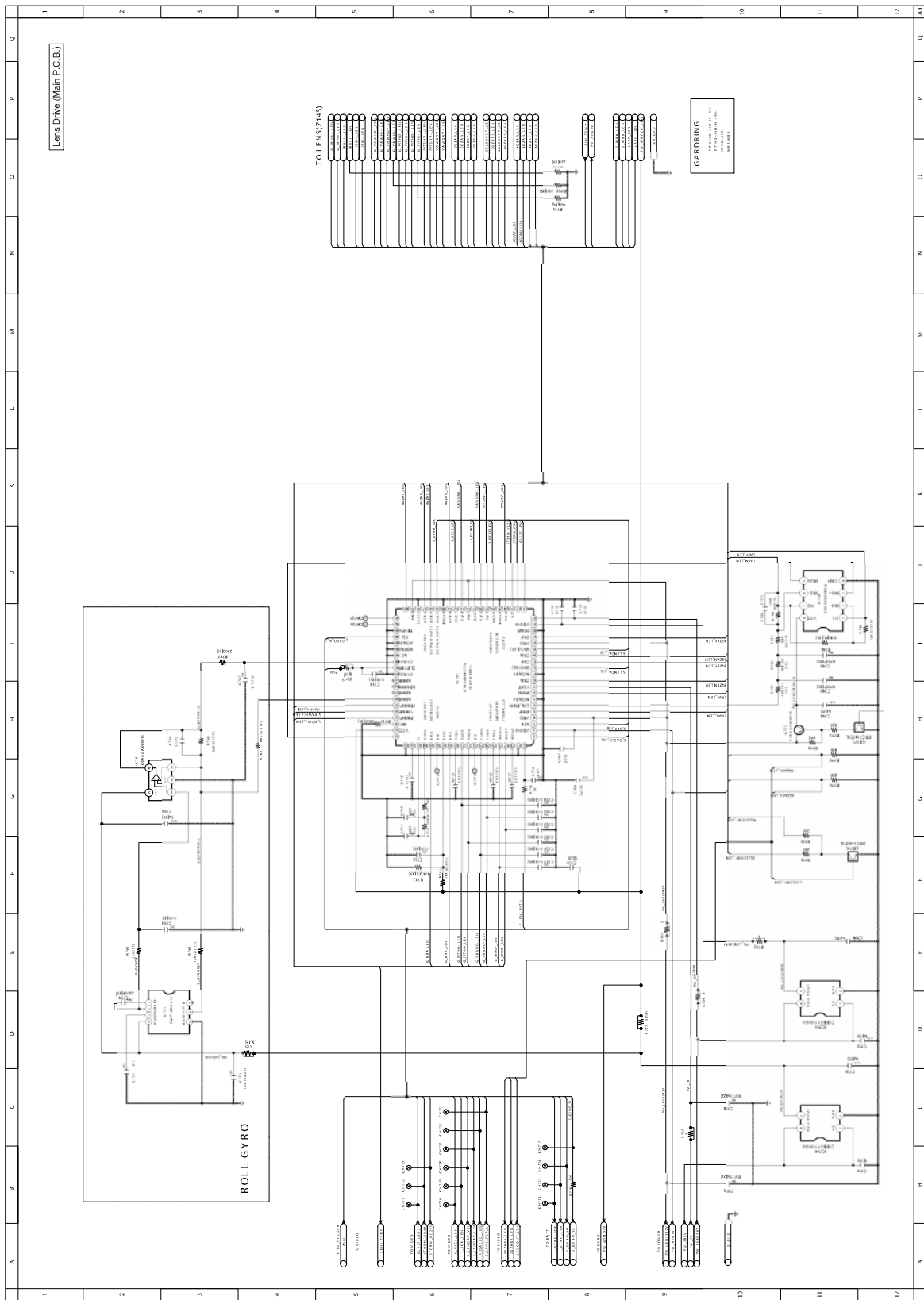


5. It might be taking time for display and/or access of the Schematic Diagrams & P. C. B having the heavy data volume.

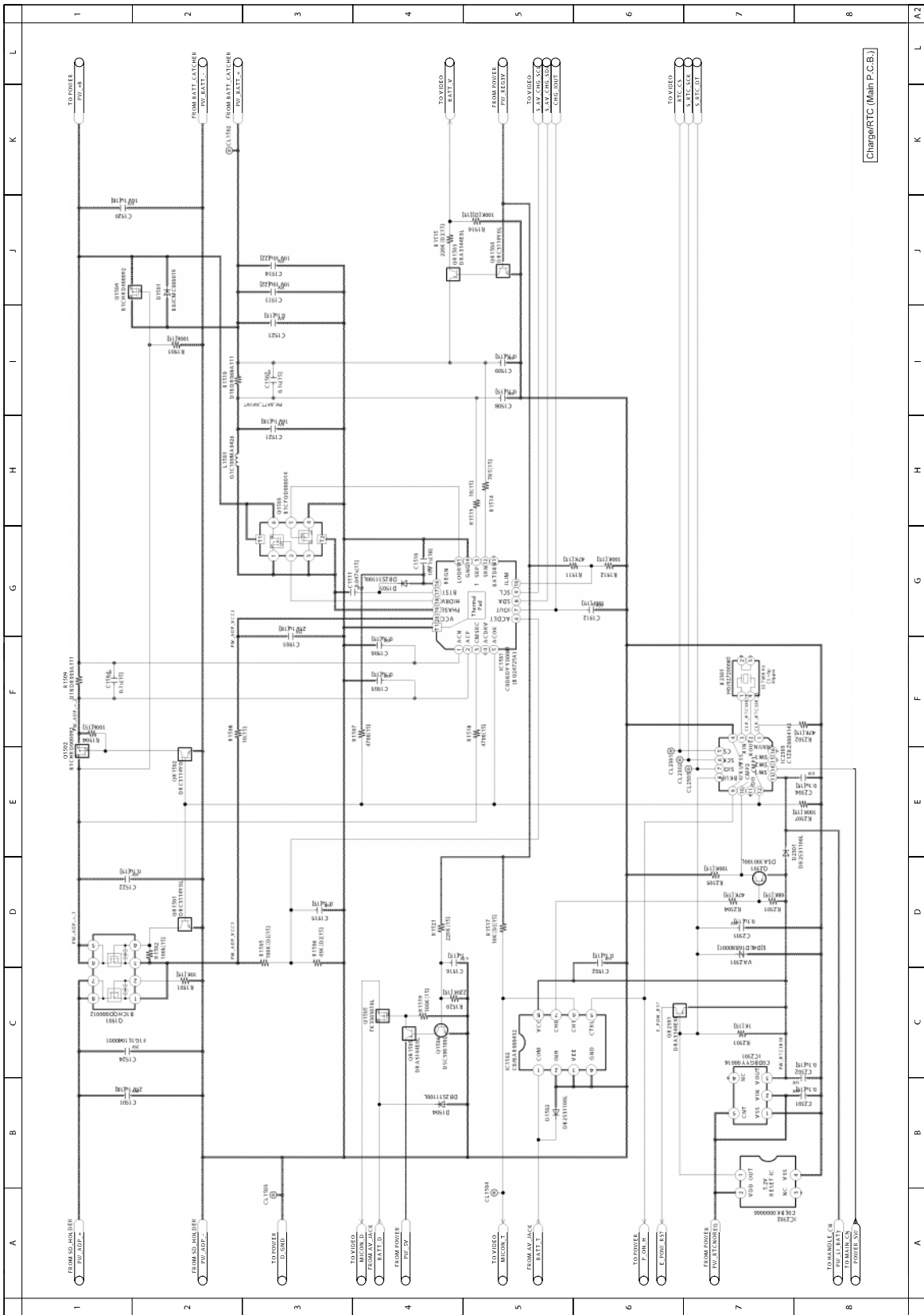
- Note:
- 1.* Be sure to make your orders of replacement parts according to this list.
 2. IMPORTANT SAFETY NOTICE
Components identified with the mark \triangle have the special characteristics for safety.
When replacing any of these components, use only the same type.
 3. Unless otherwise specified,
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. : HC-MDH2/MDH2M 1 Lens Drive (Main P.C.B.)

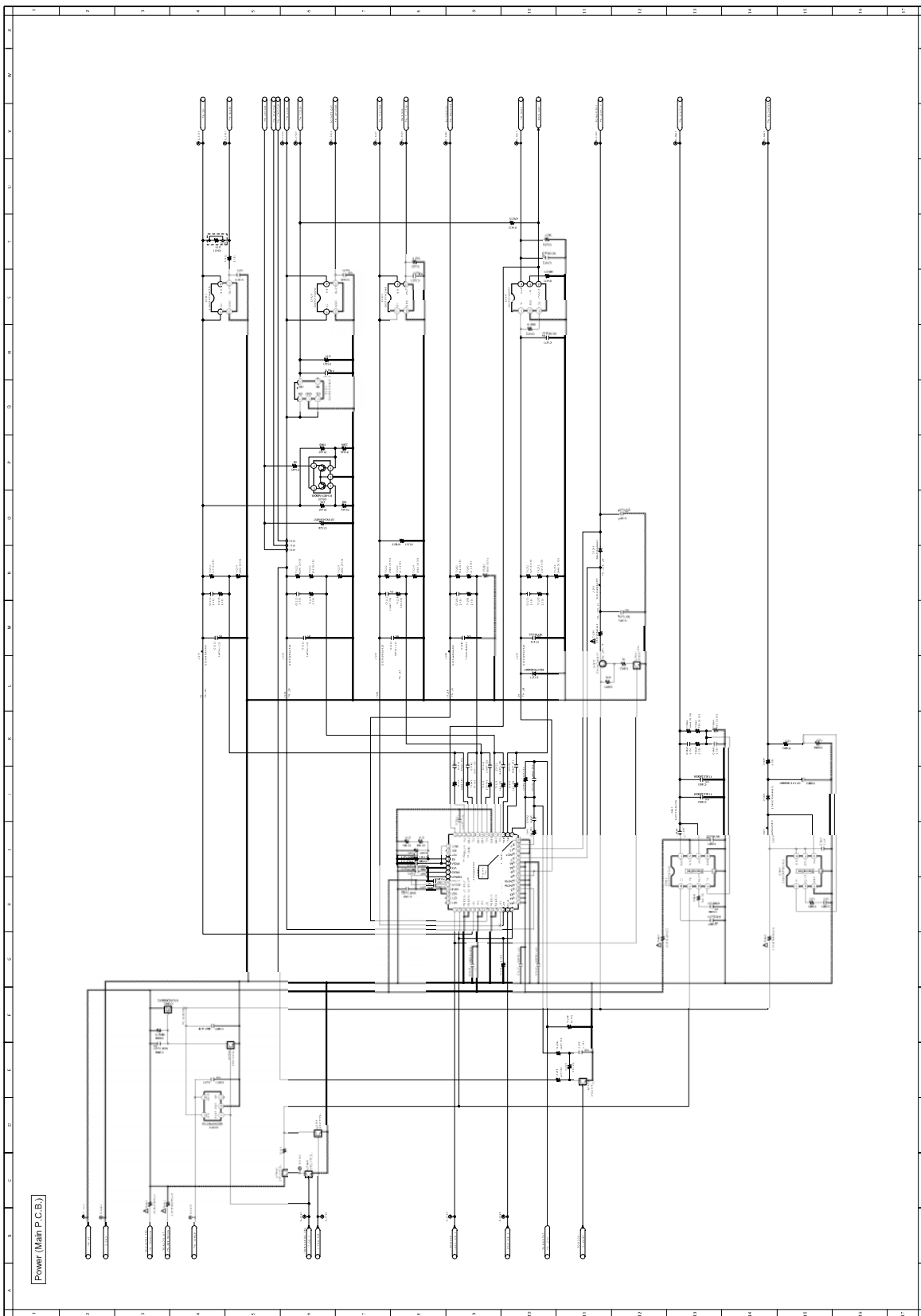


Model No. : HC-MDH2/MDH2M Charge/RTC (Main P.C.B.)

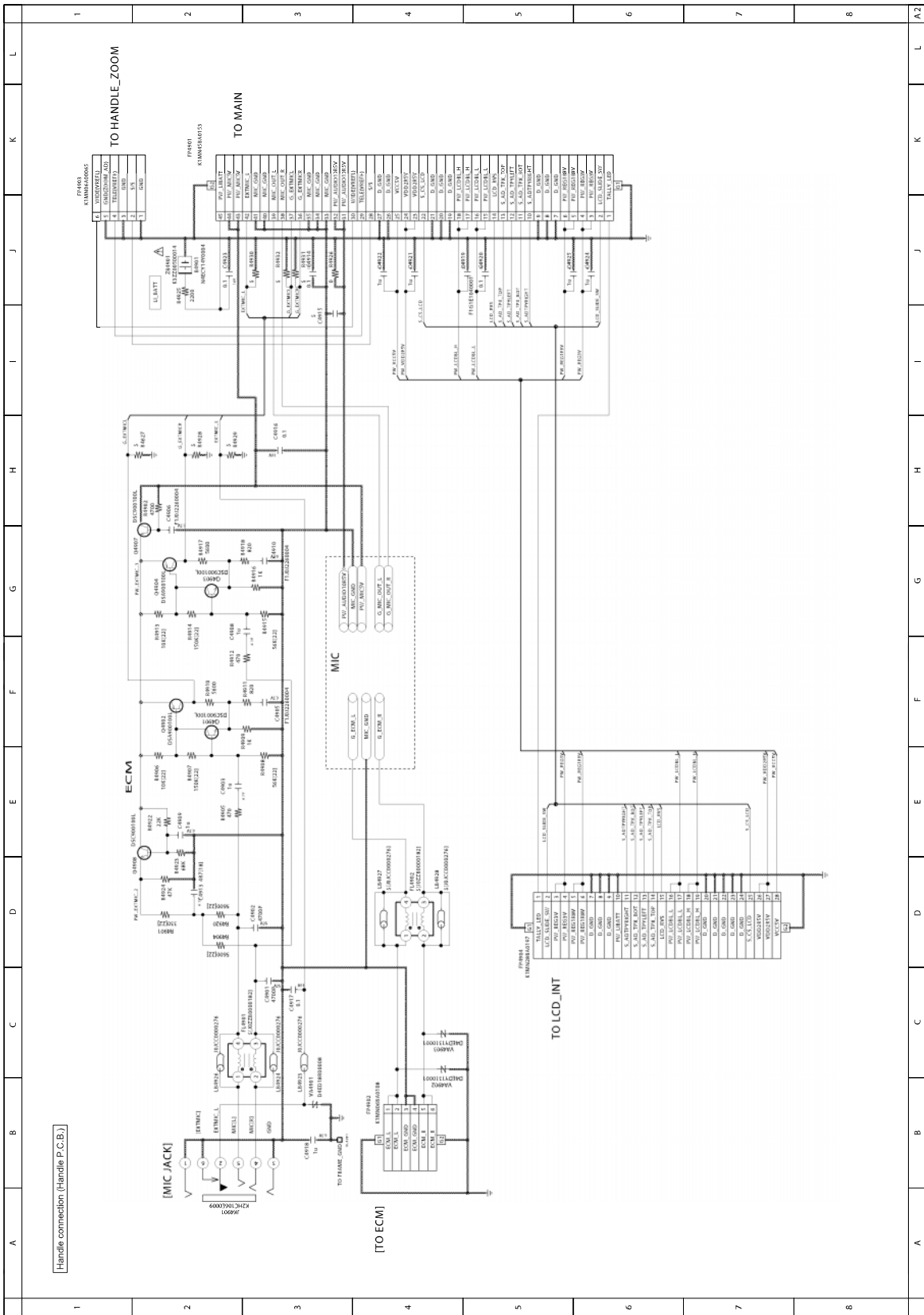


Charge/RTC (Main P.C.B.)

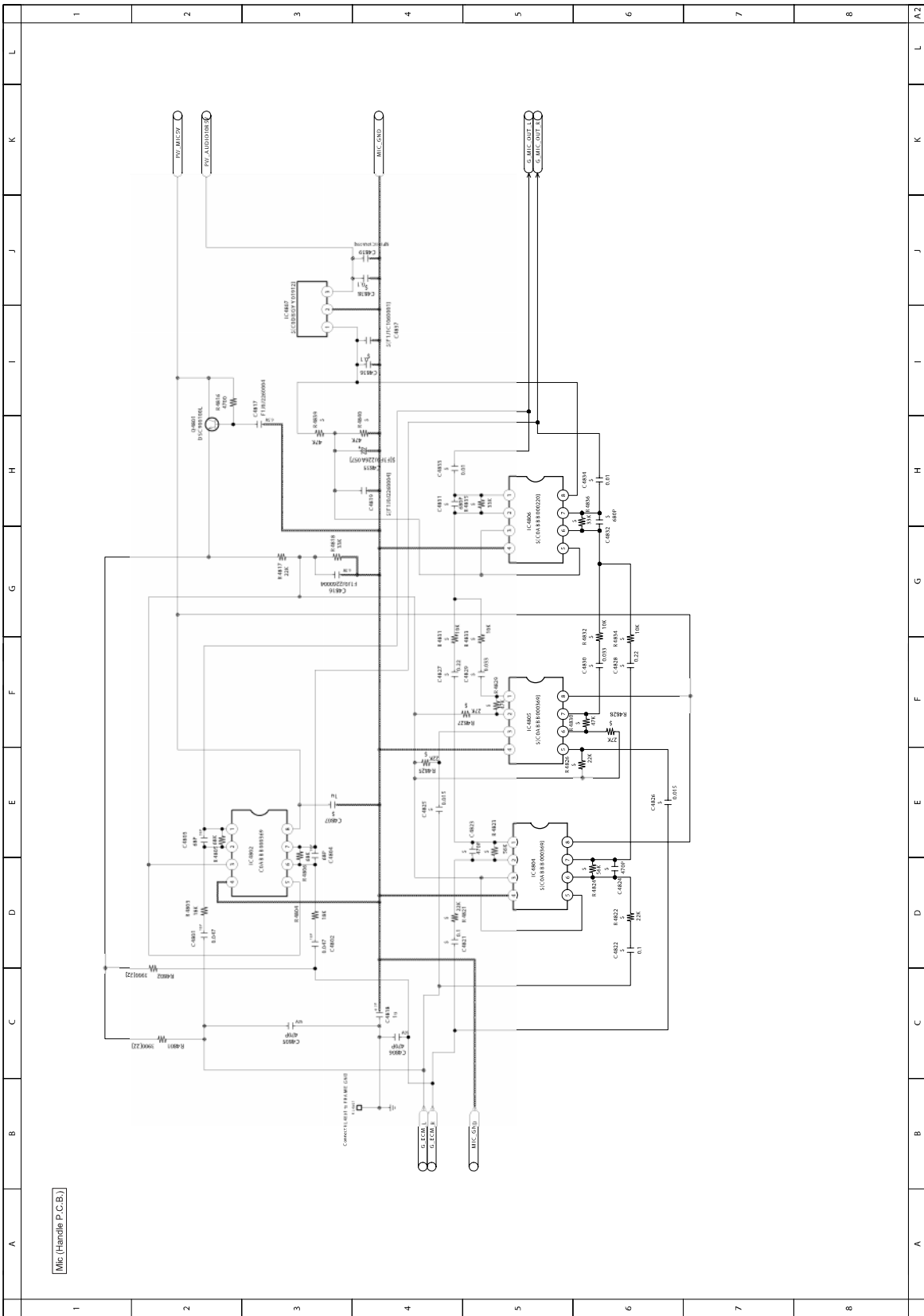
Model No : HC-MDH2/MDH2M Power (Main P.C.B.)



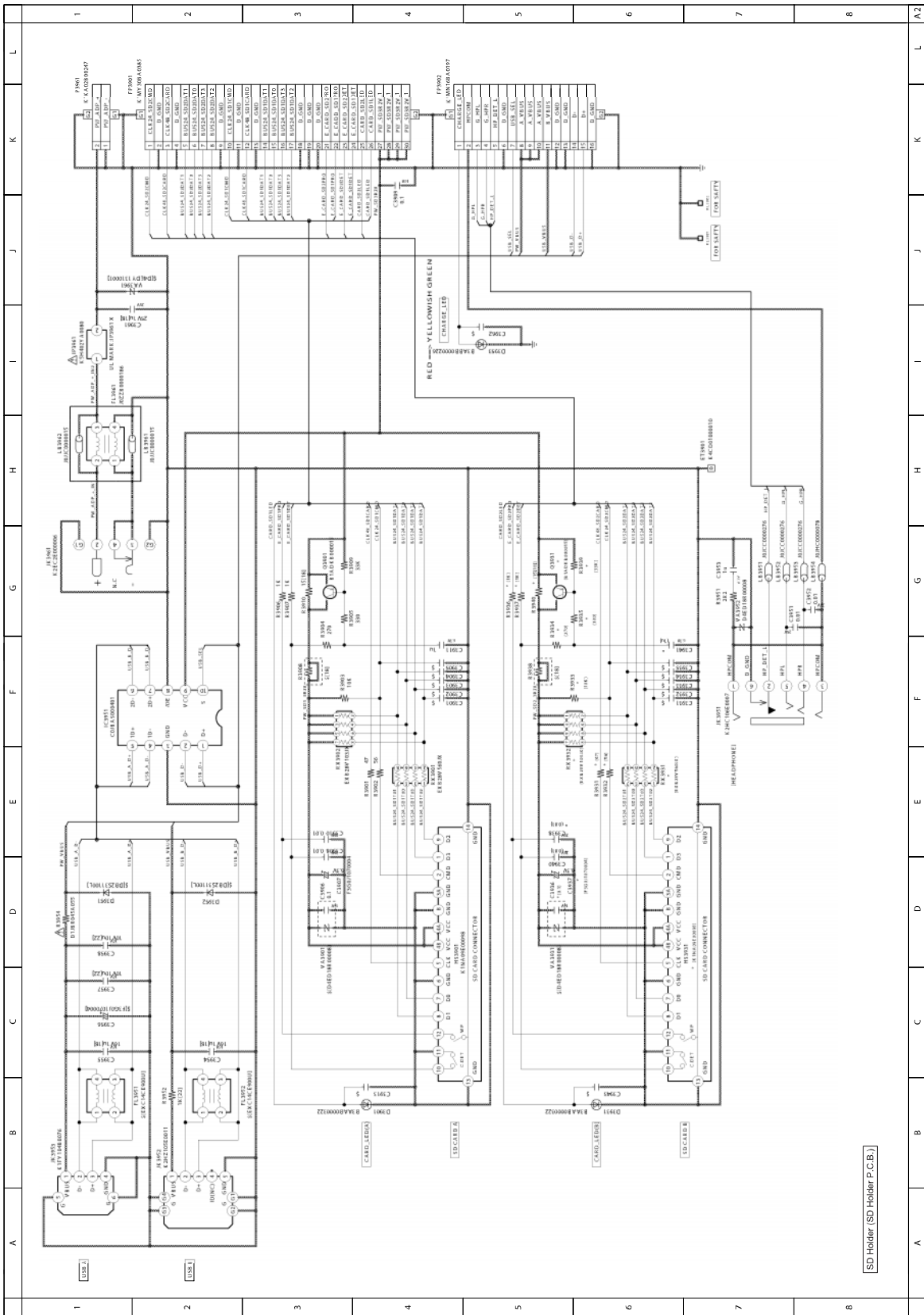
Model No. : HC-MDH2/MDH2M Handle connection (Handle P.C.B.)

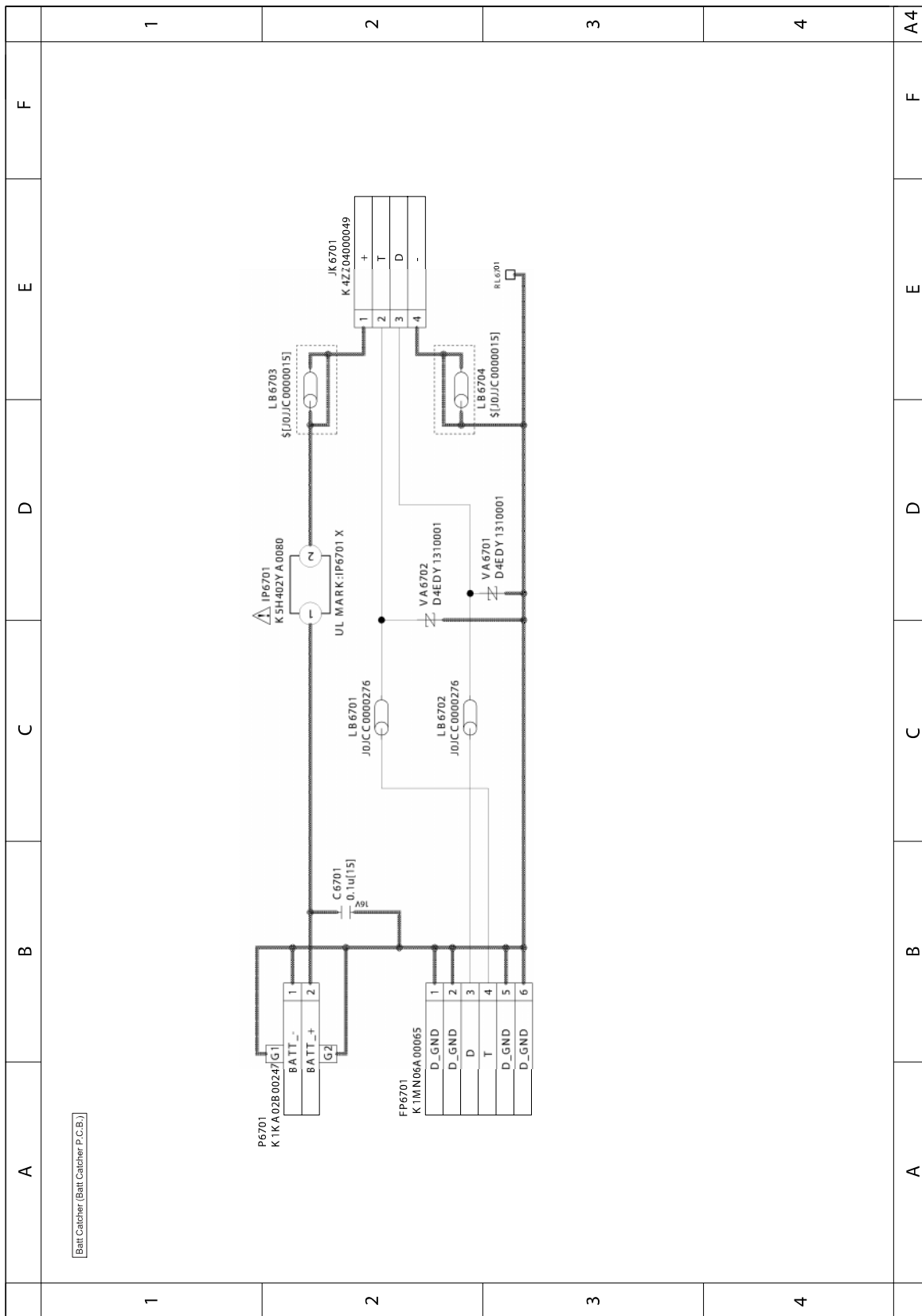


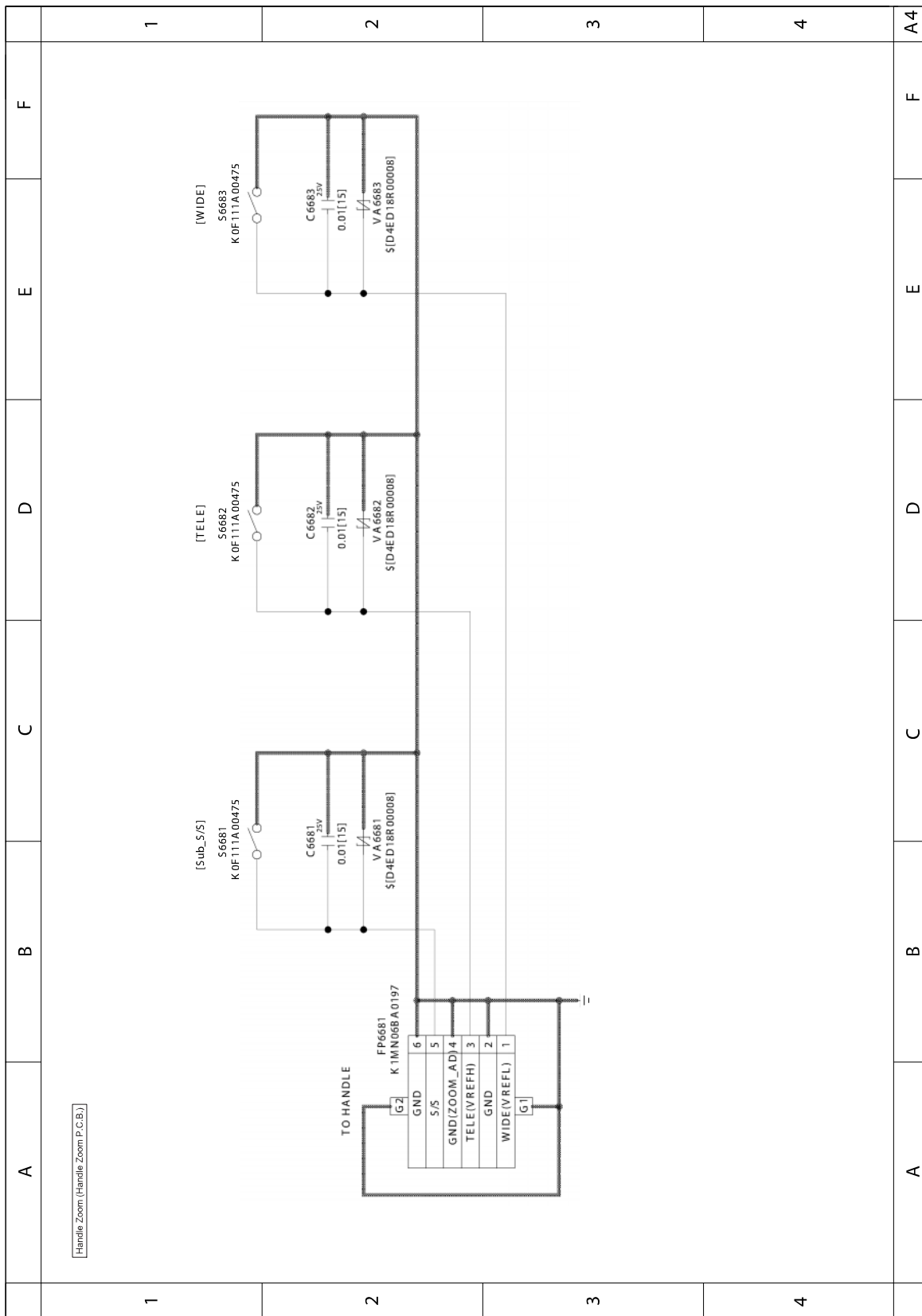
Model No : HC-MDH2/MDH2M Mic (Handle P.C.B)

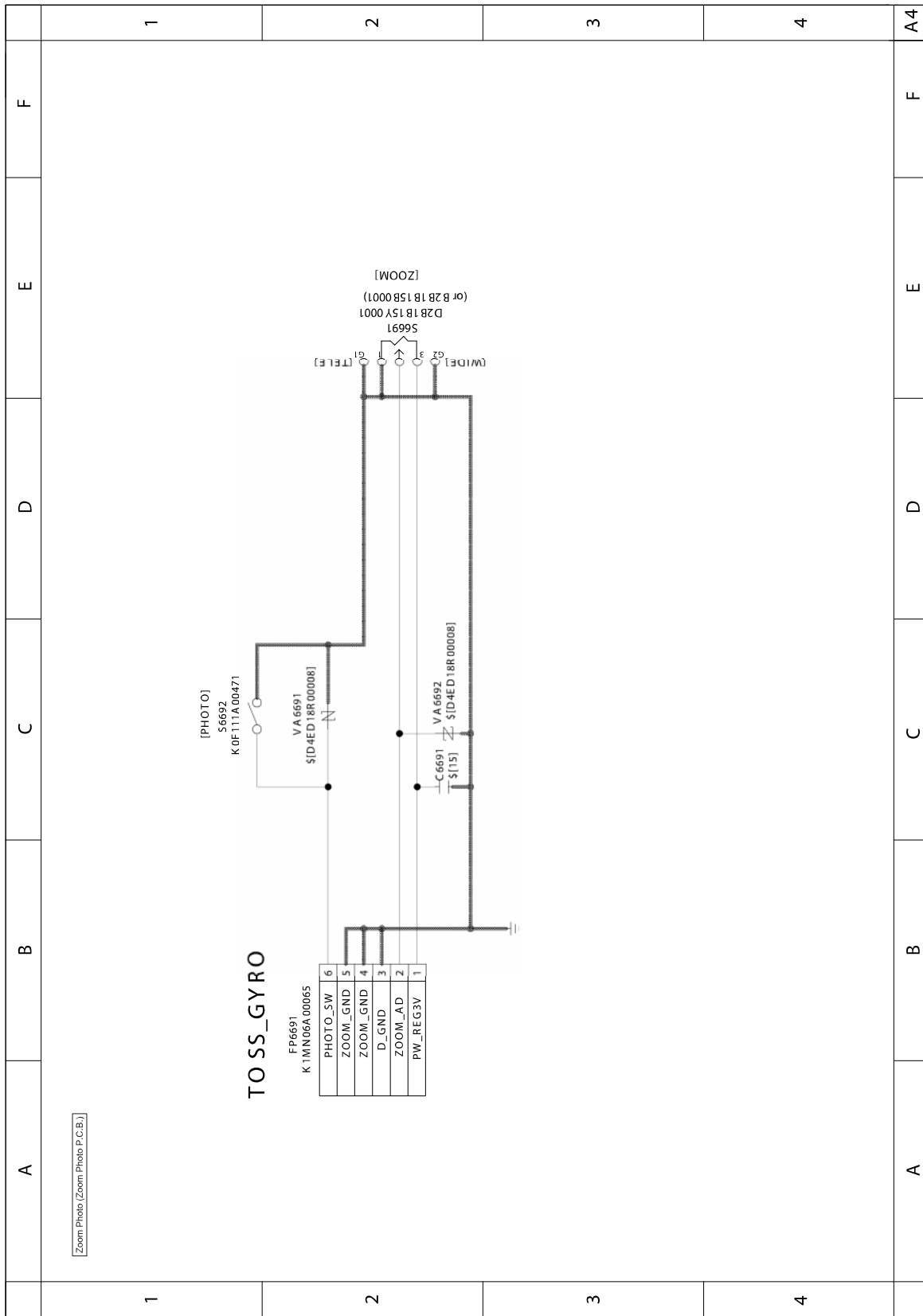


Model No. : HC-MDH2/MDH2M SD Holder (SD Holder P.C.B.)

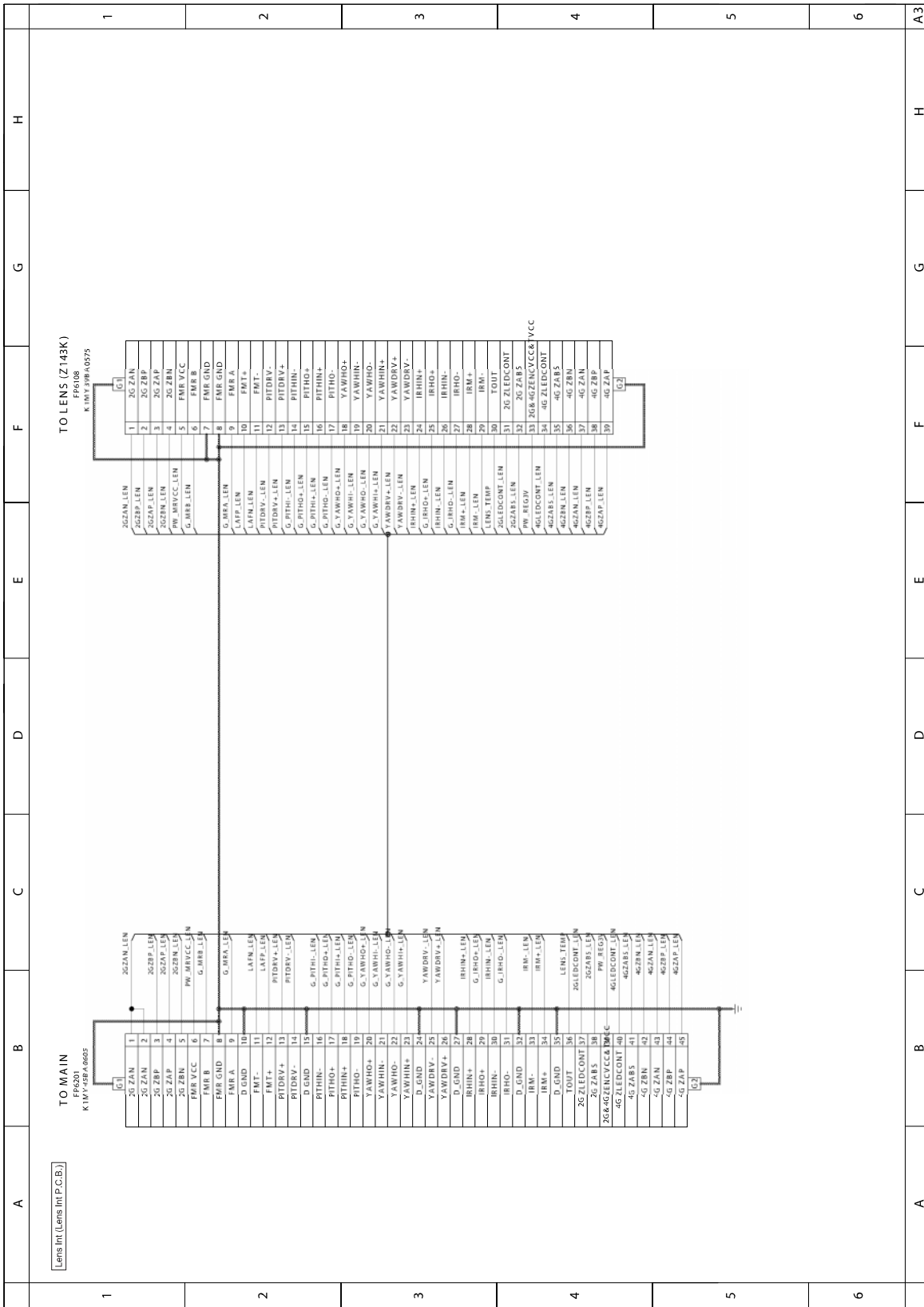


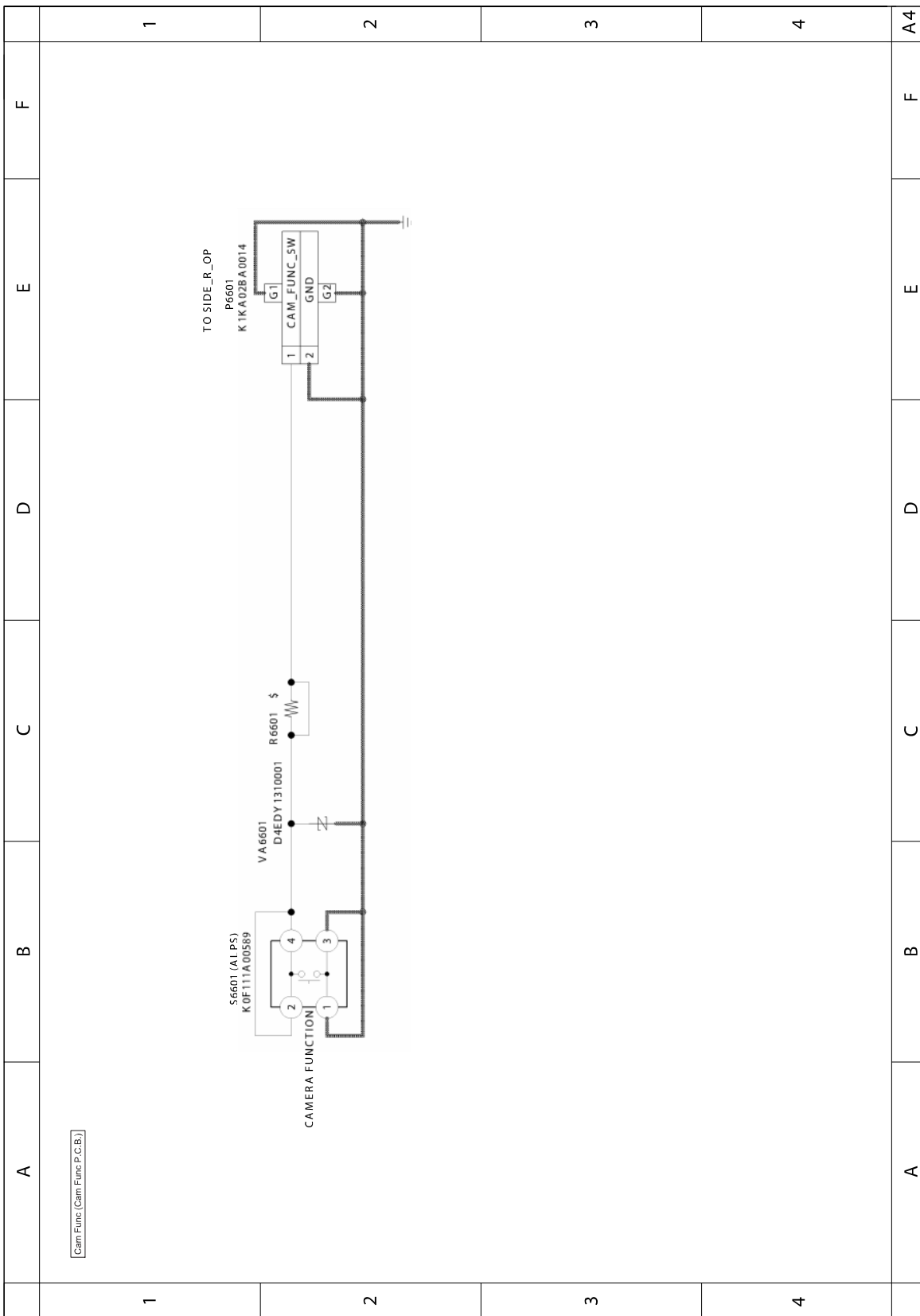


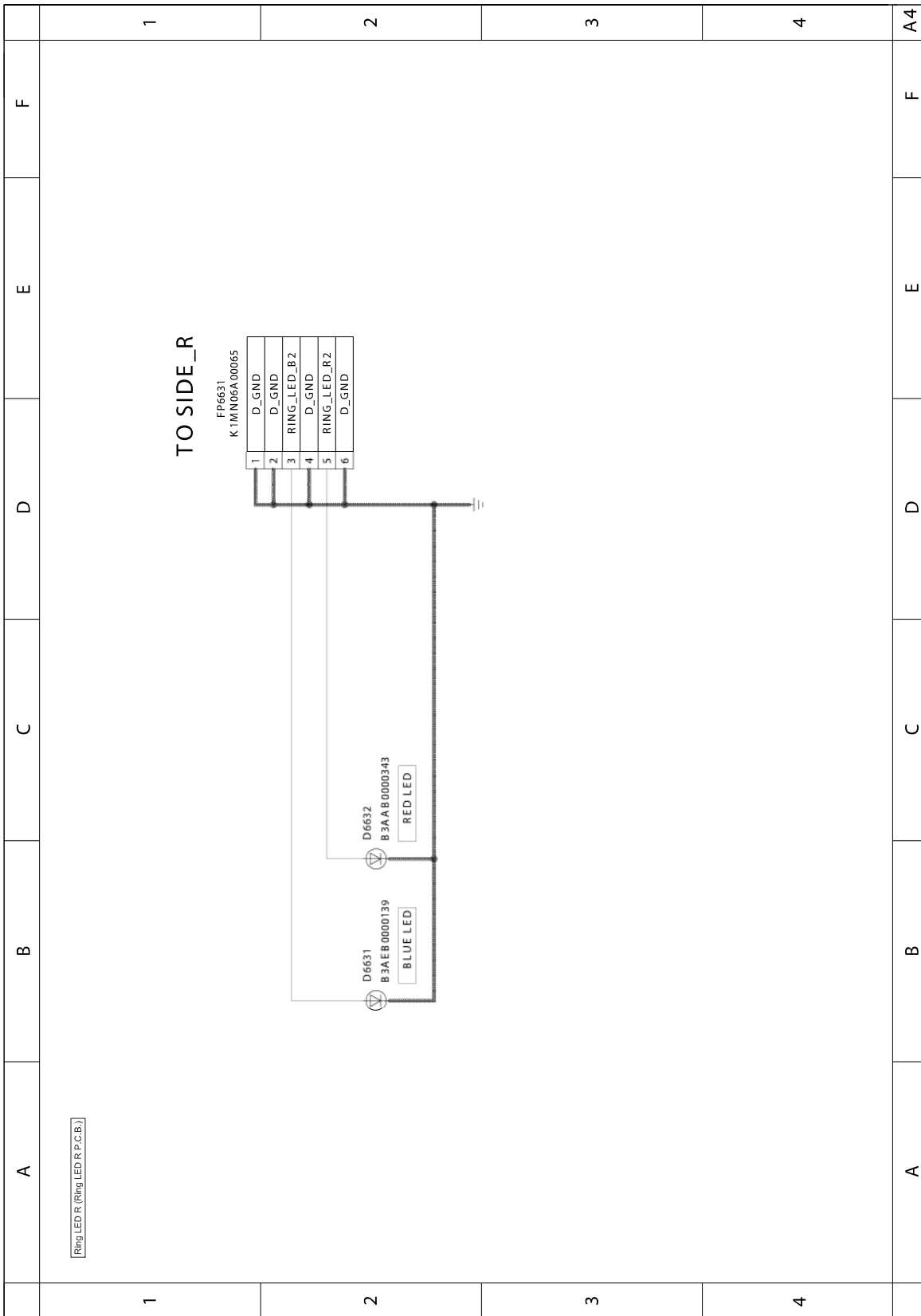


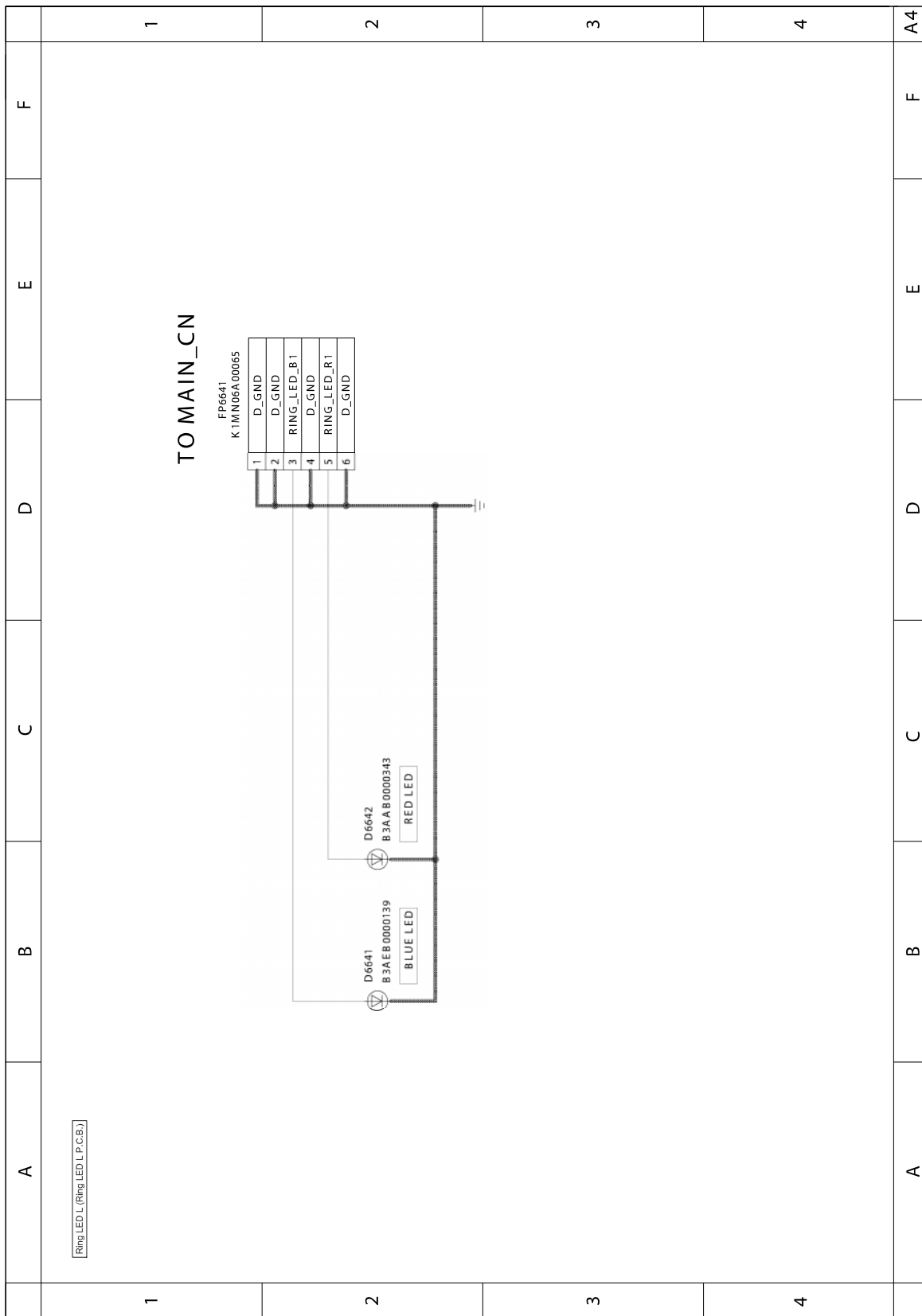


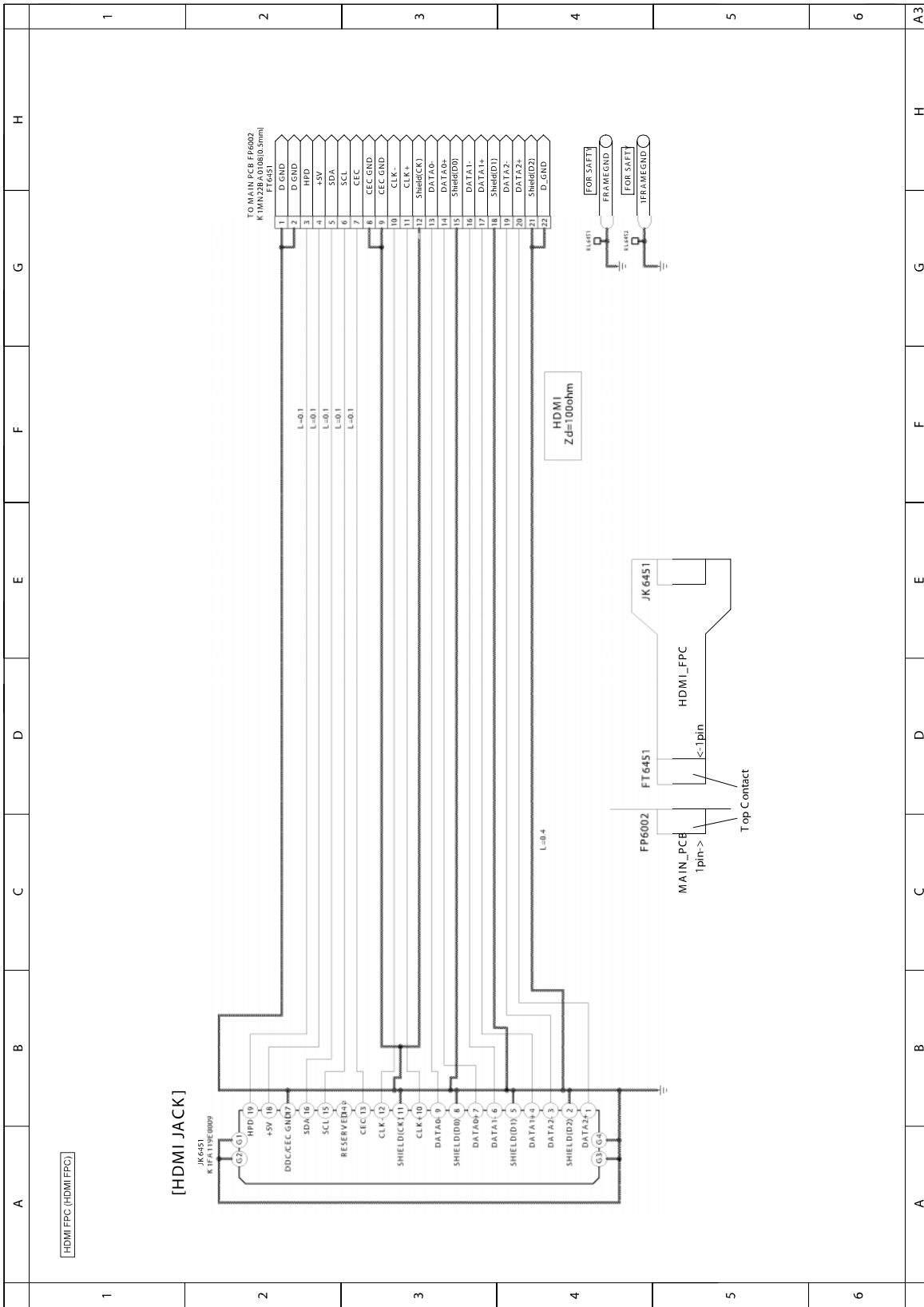
Zoom Photo (Zoom Photo P.C.B.)

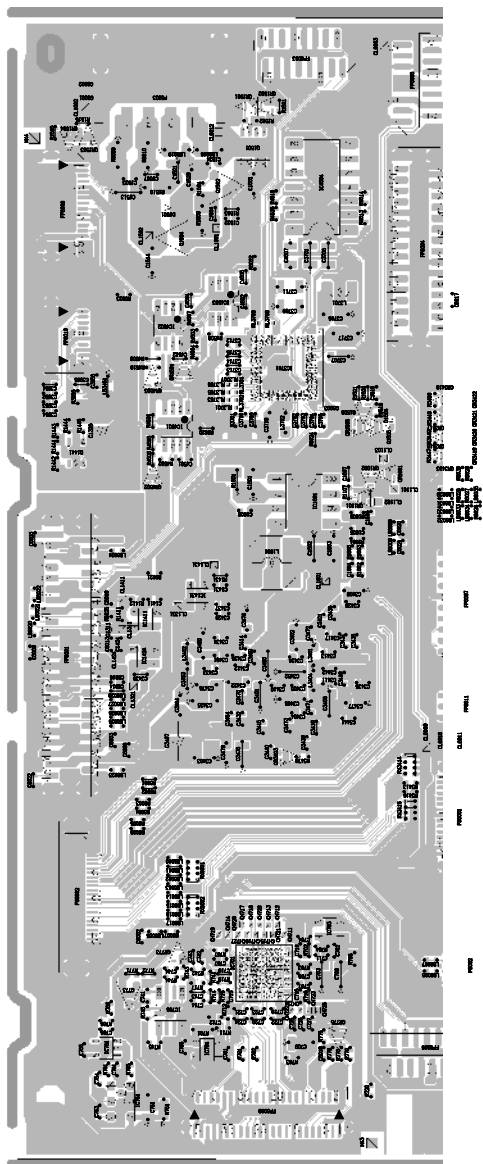


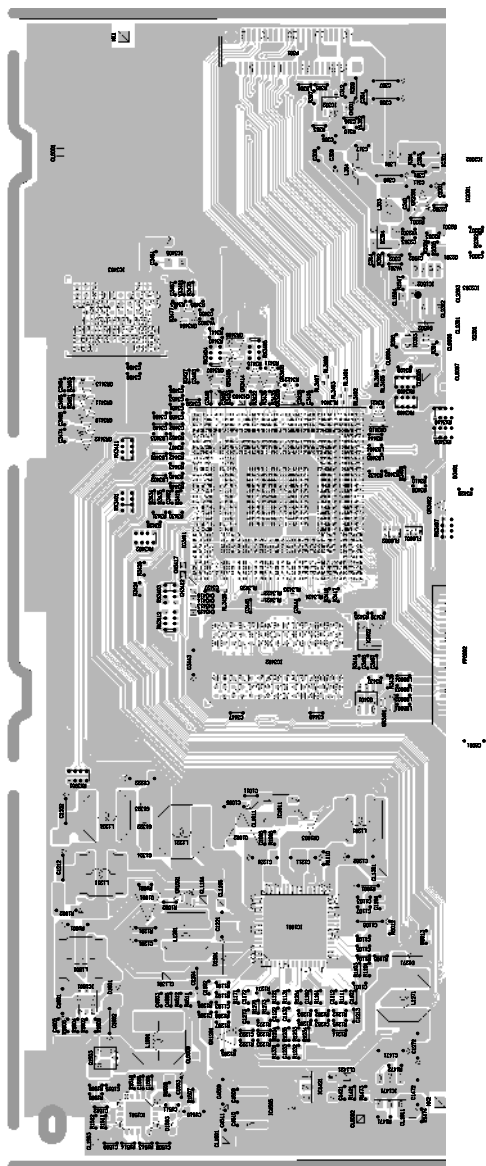


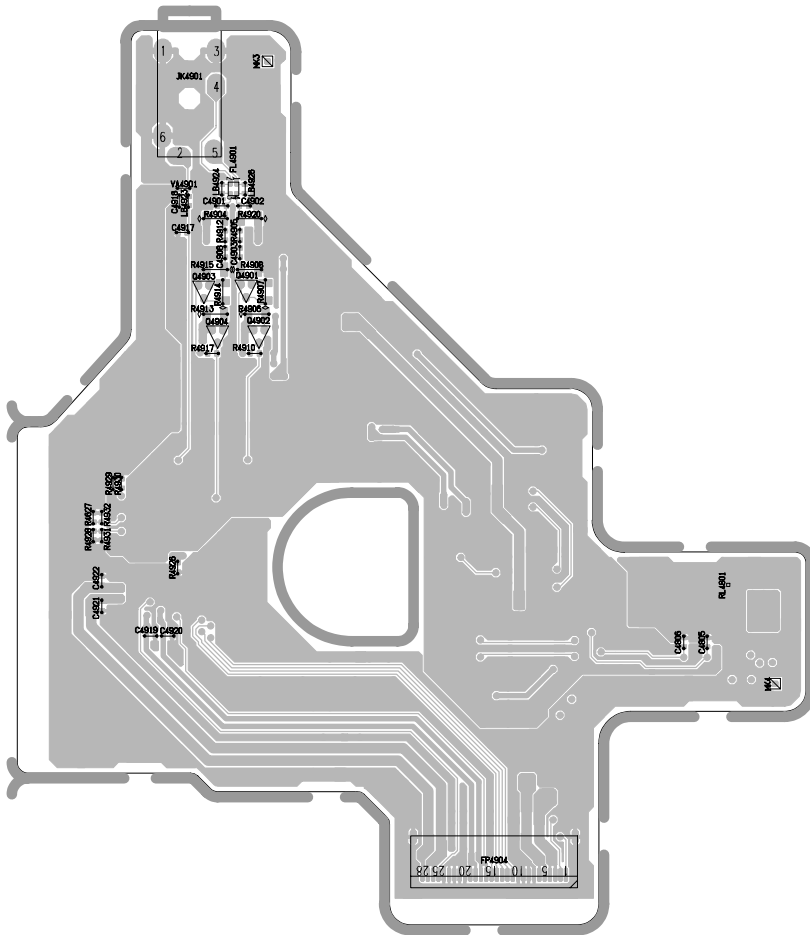


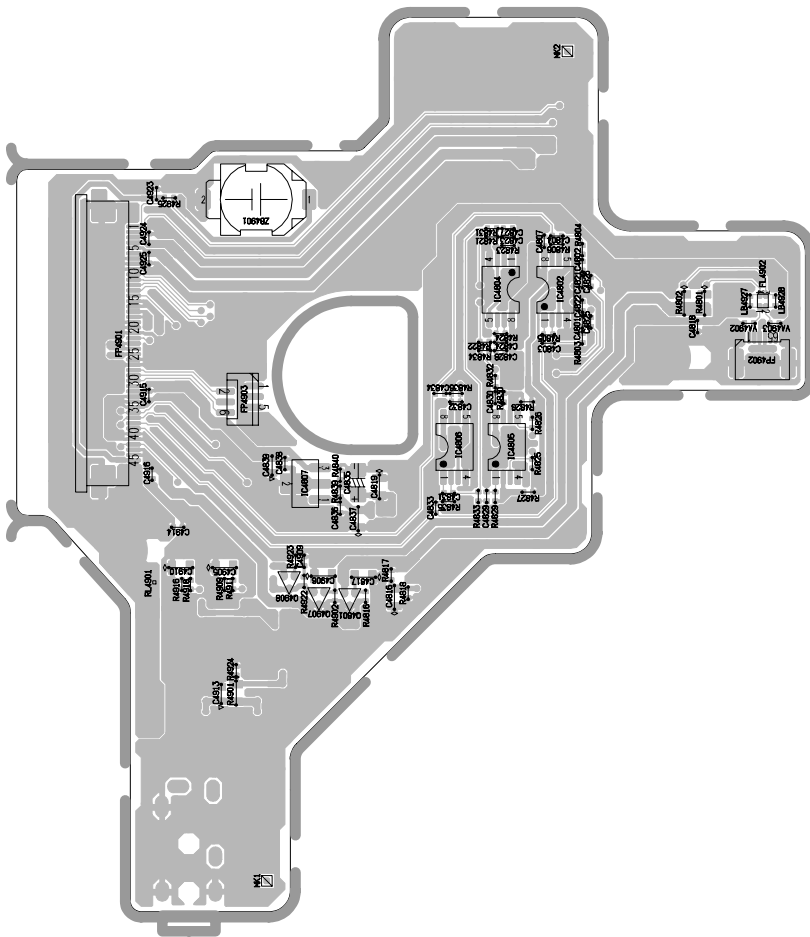


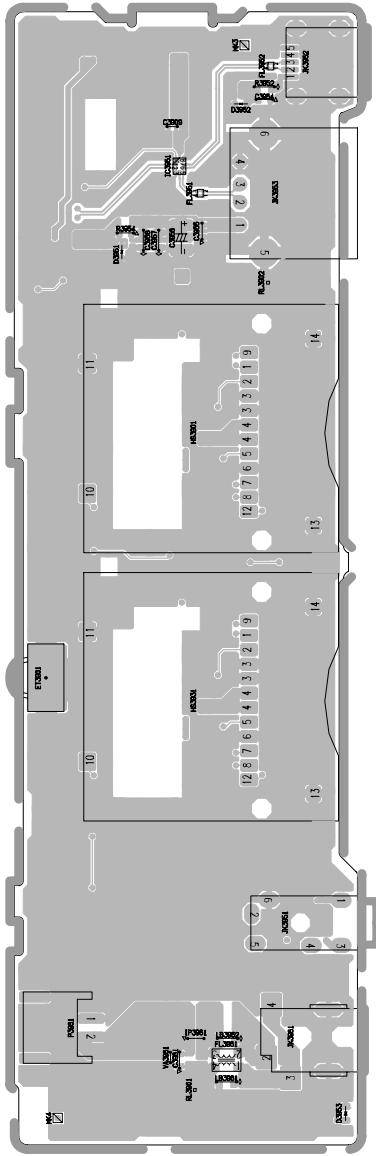


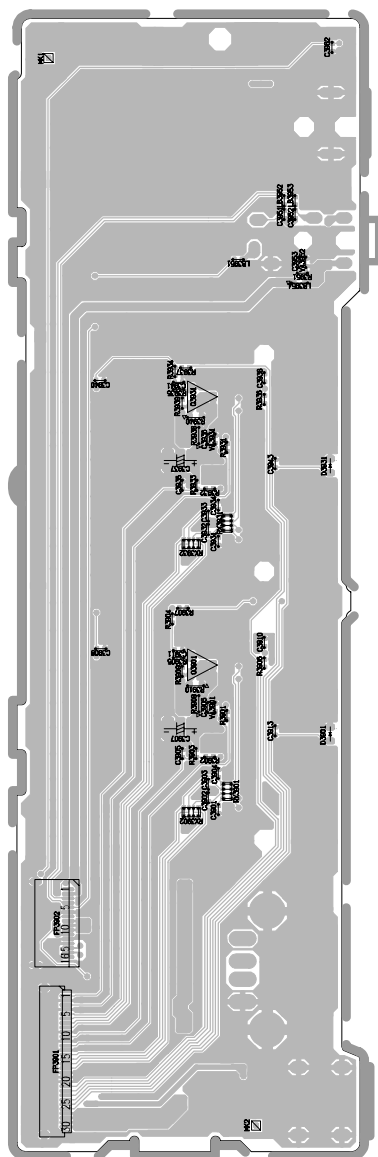


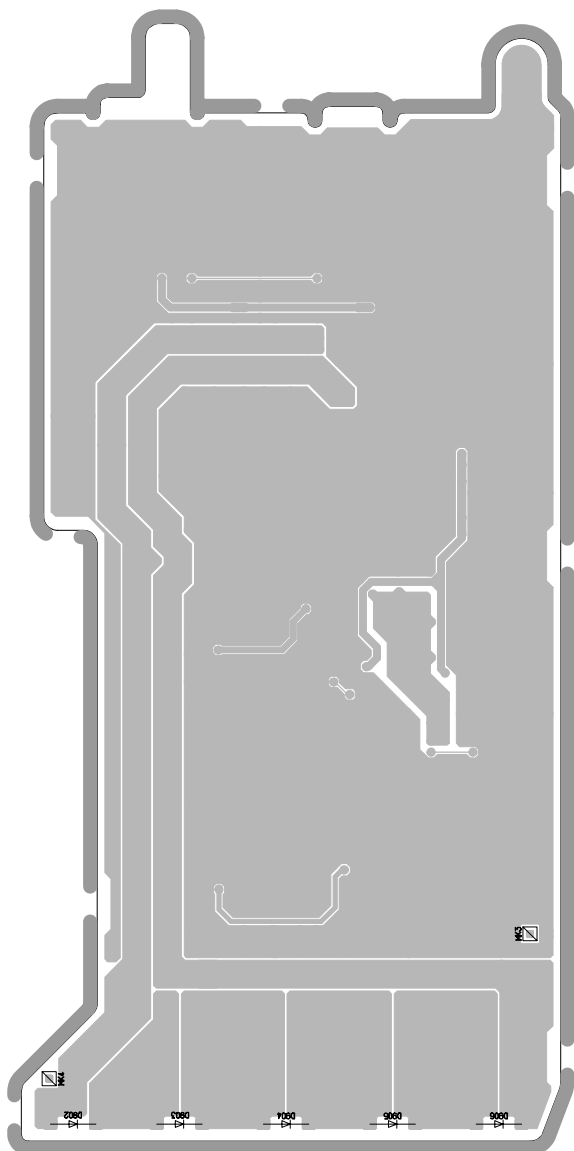


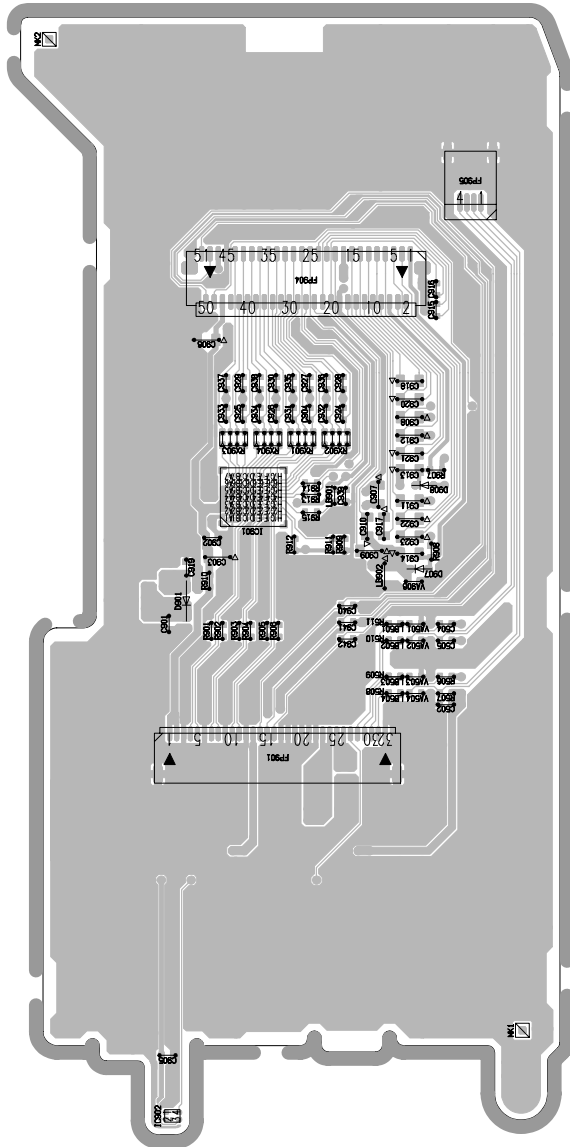


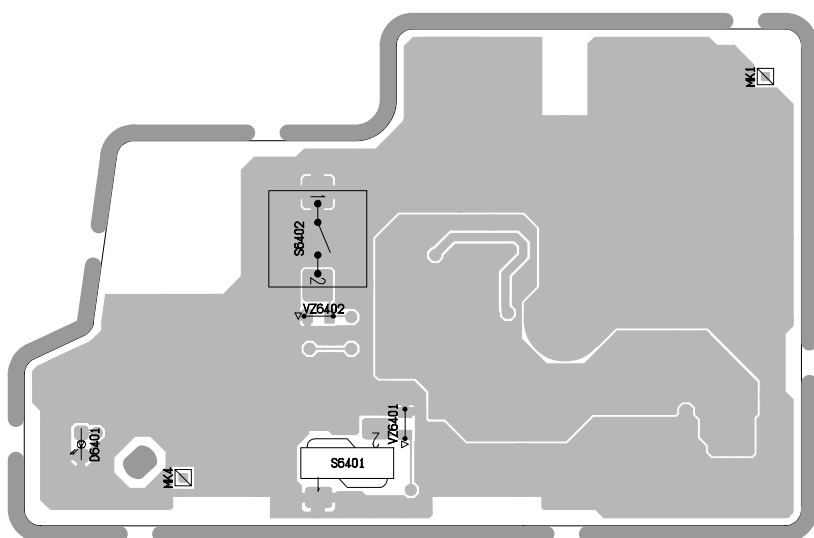


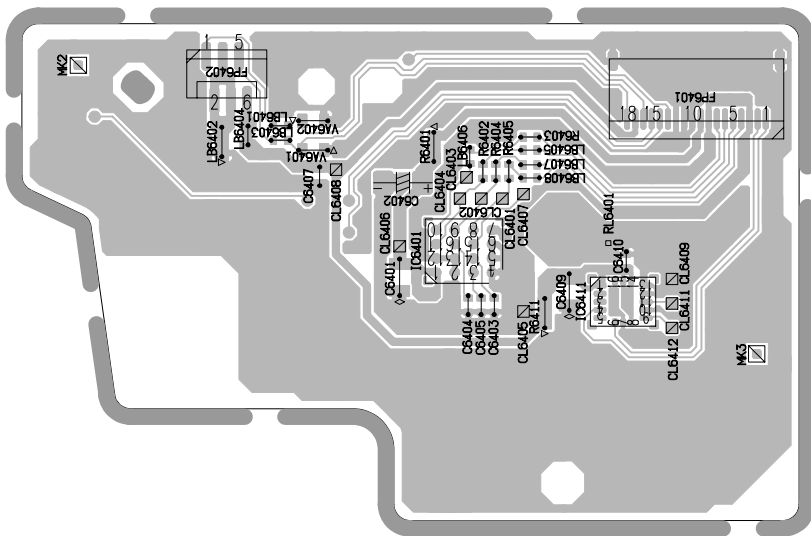


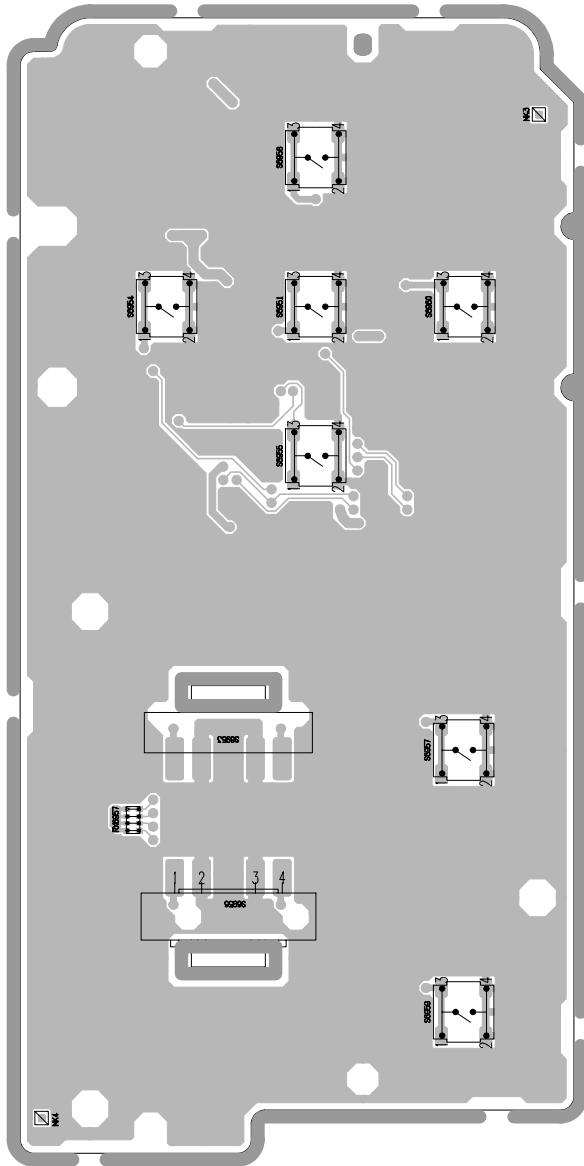


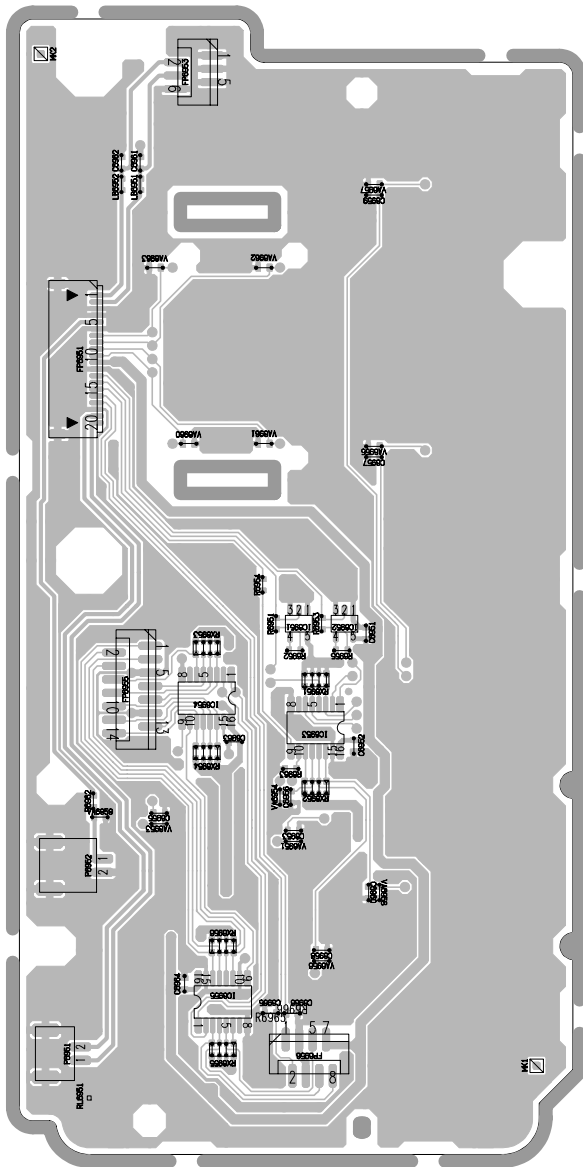


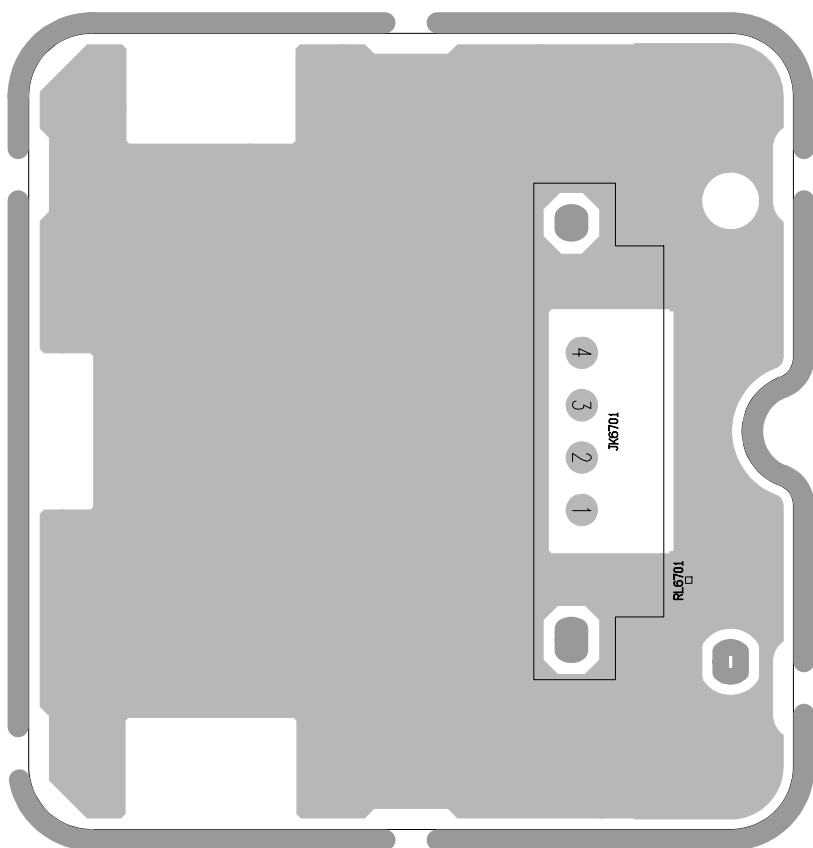


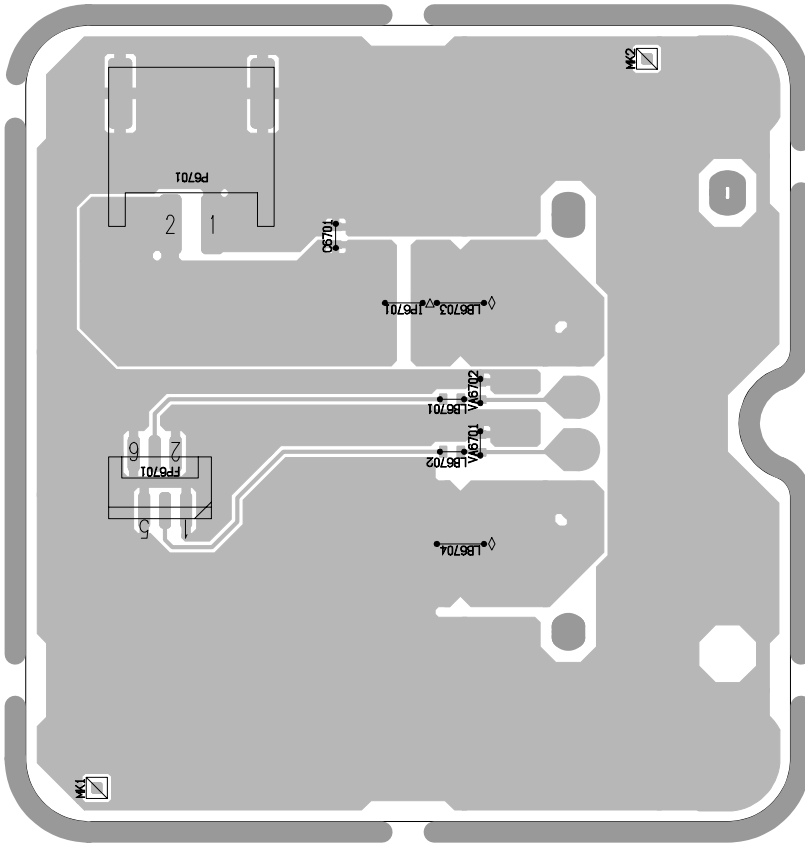


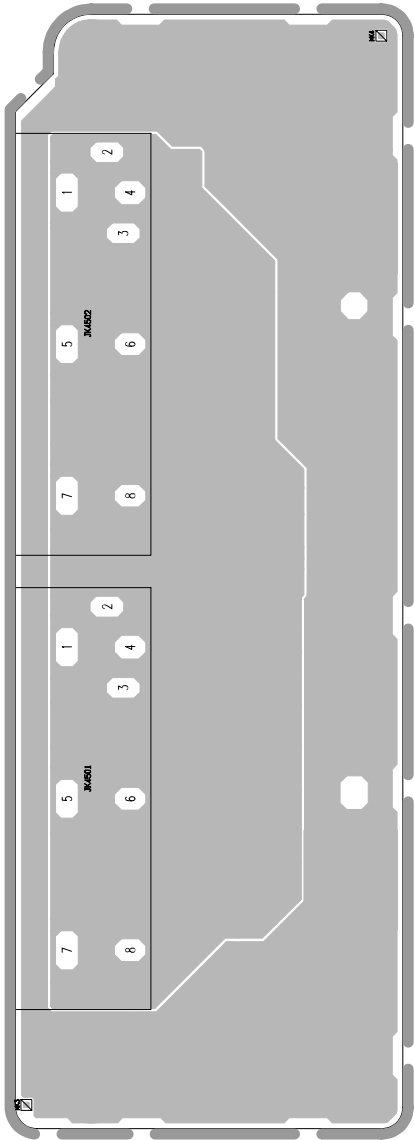


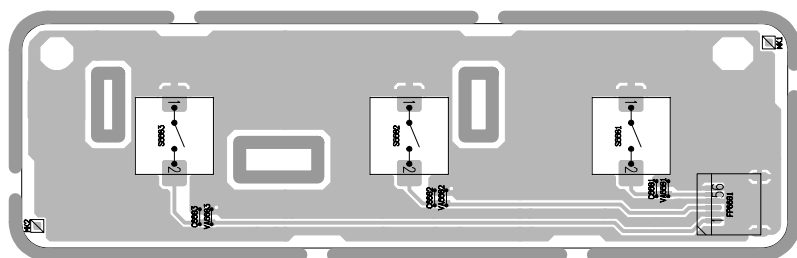


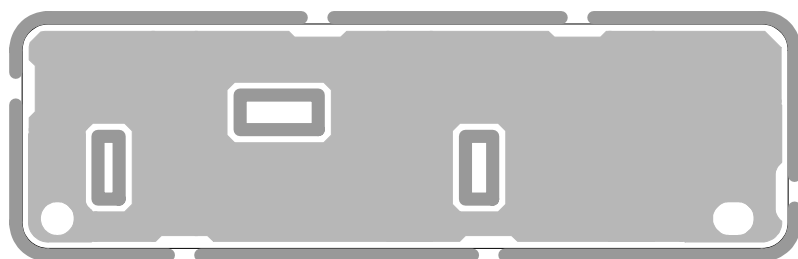


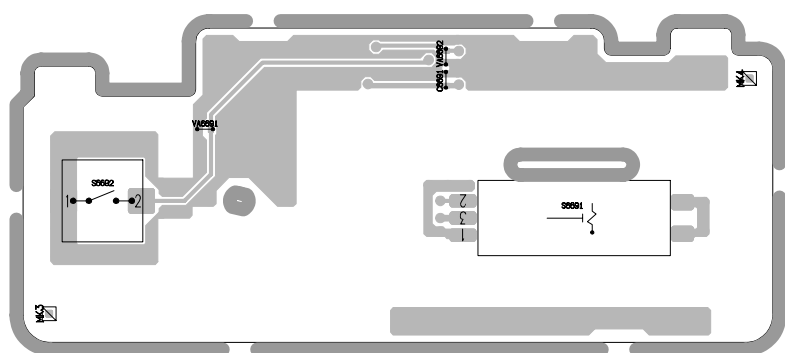


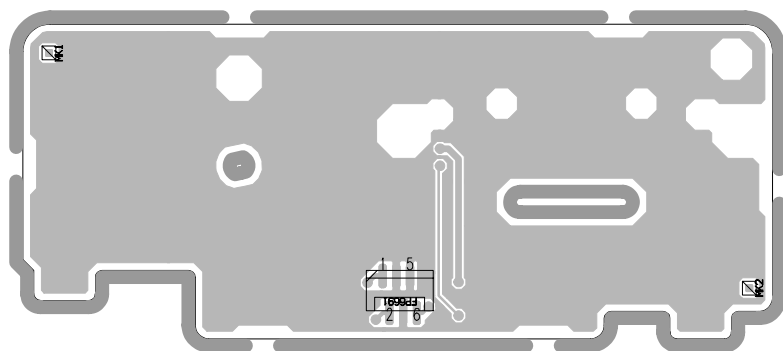


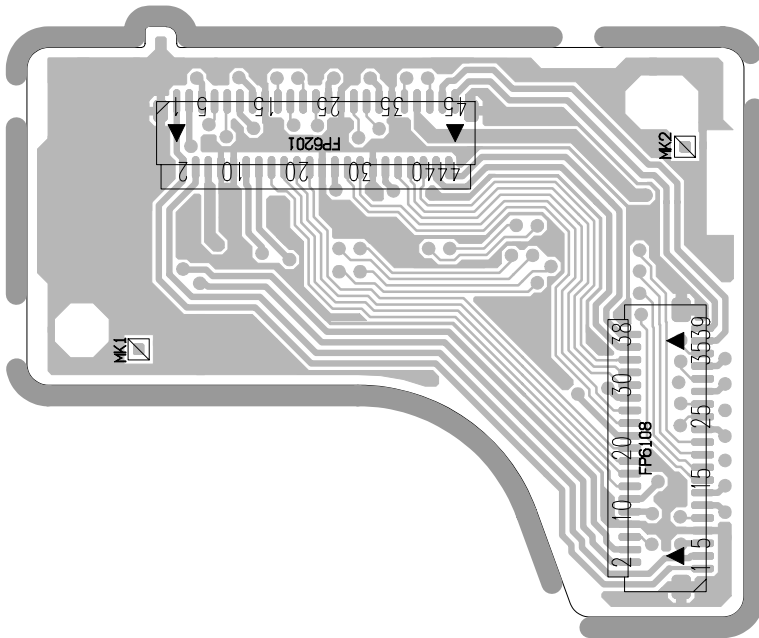


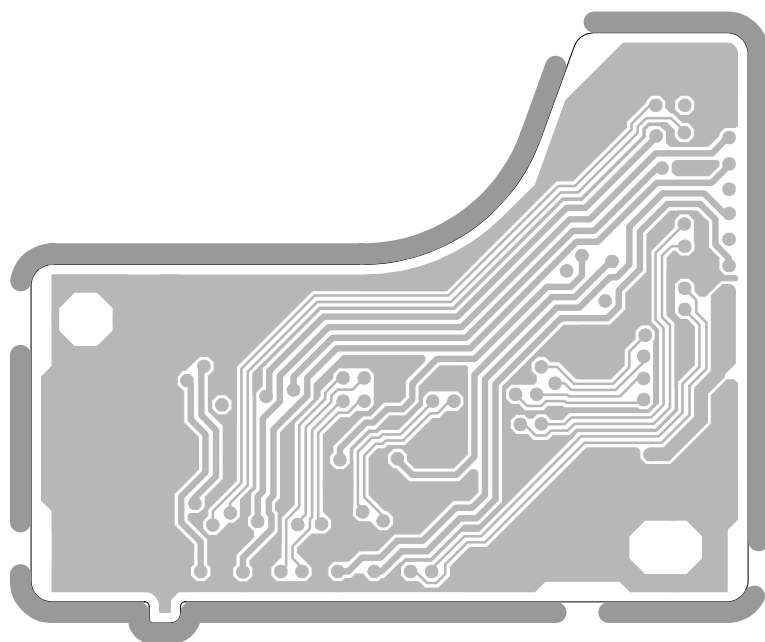


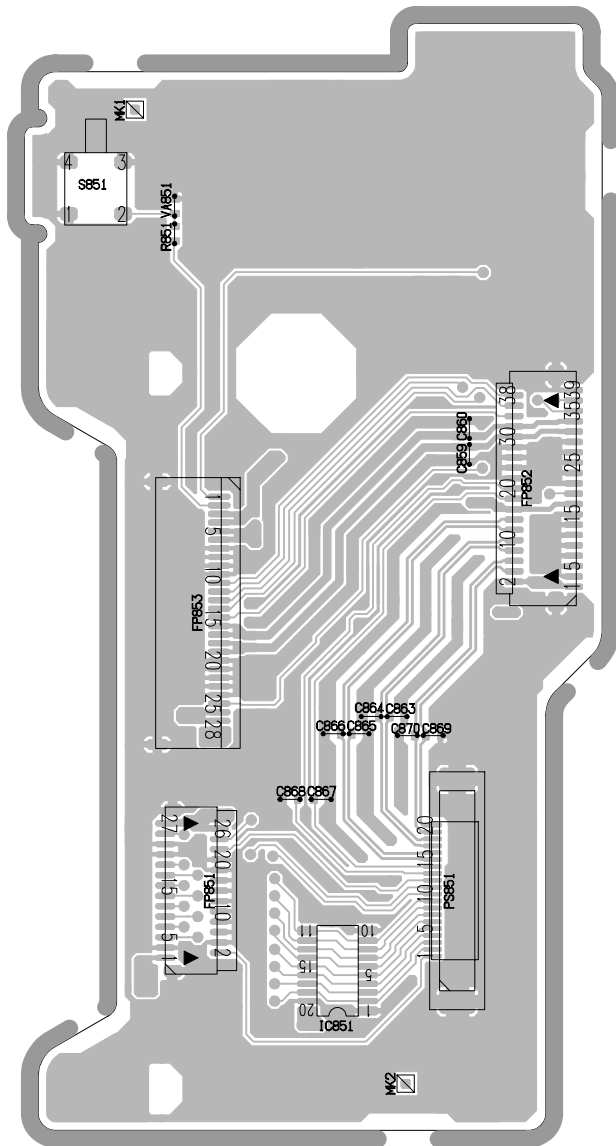


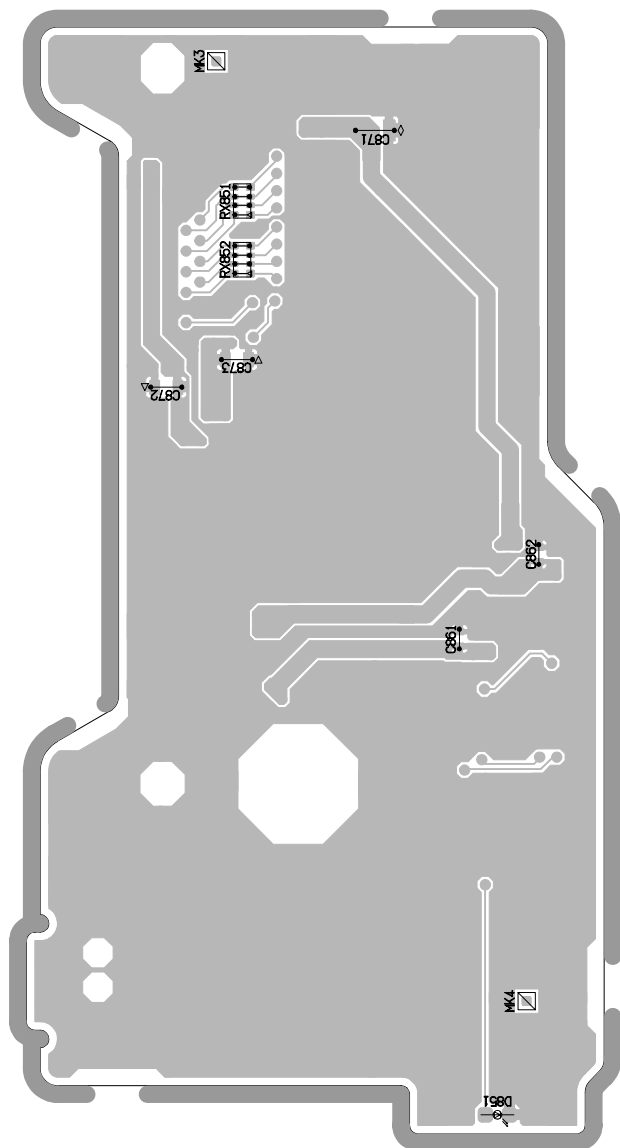


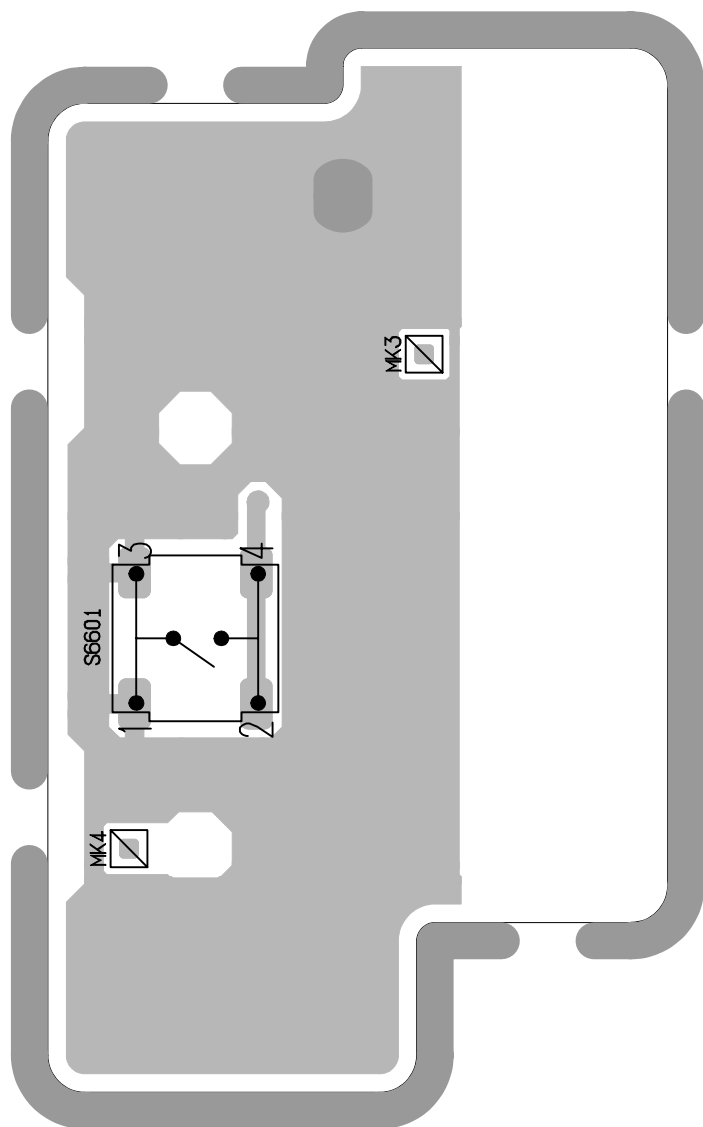


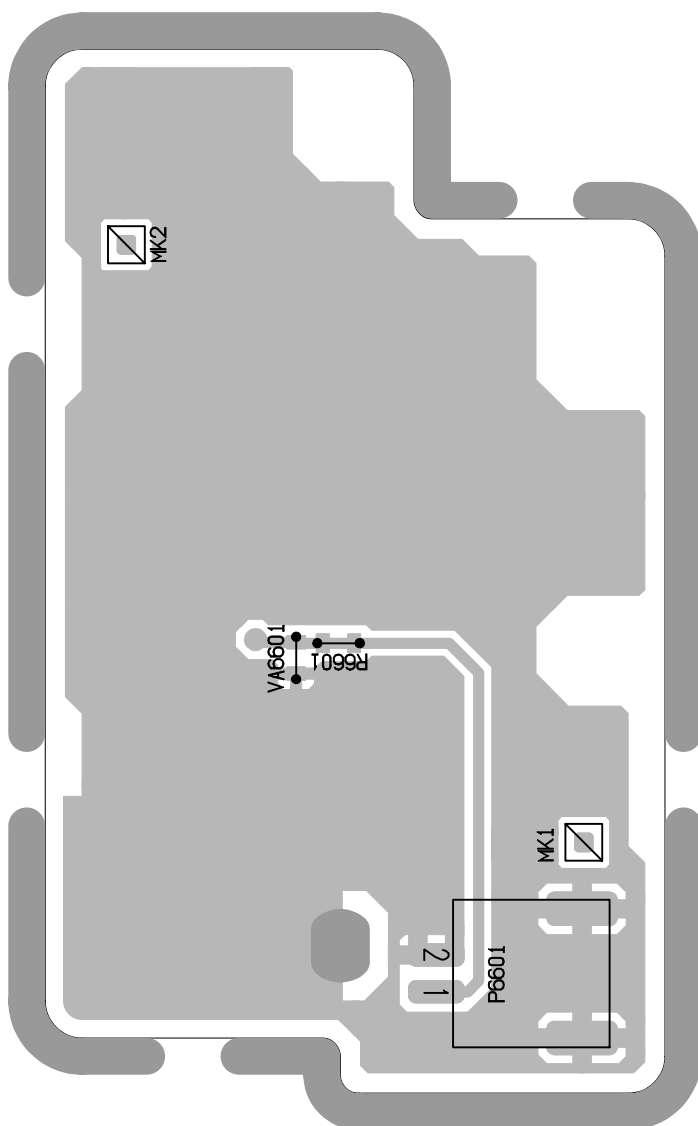


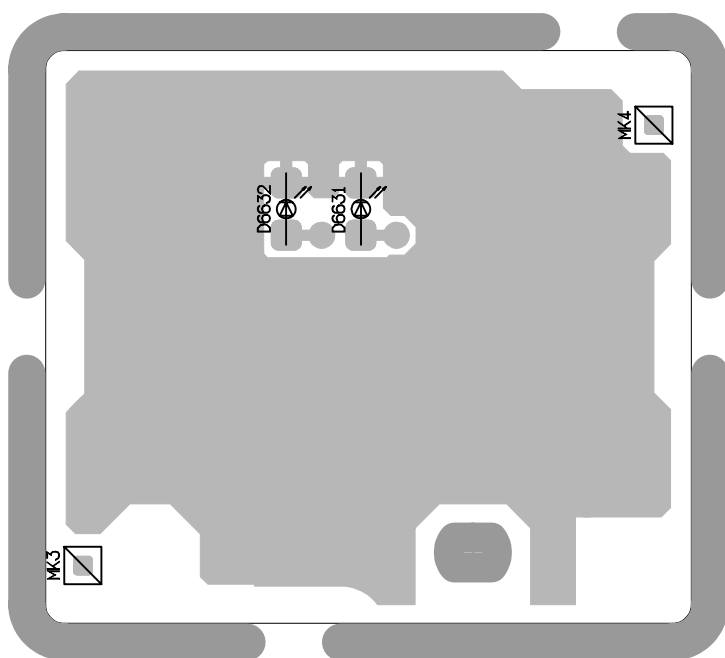


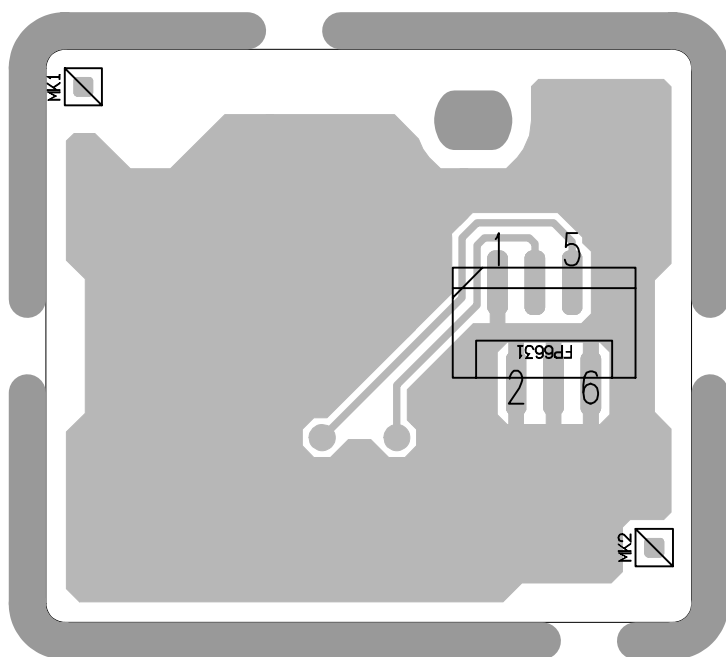


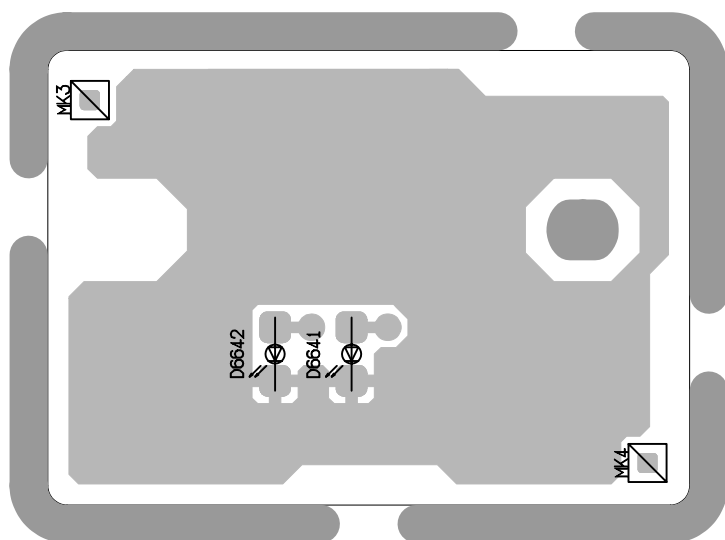


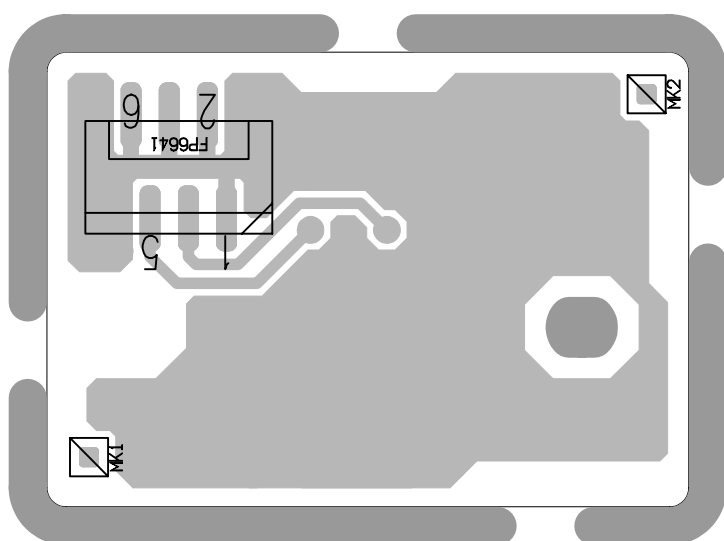


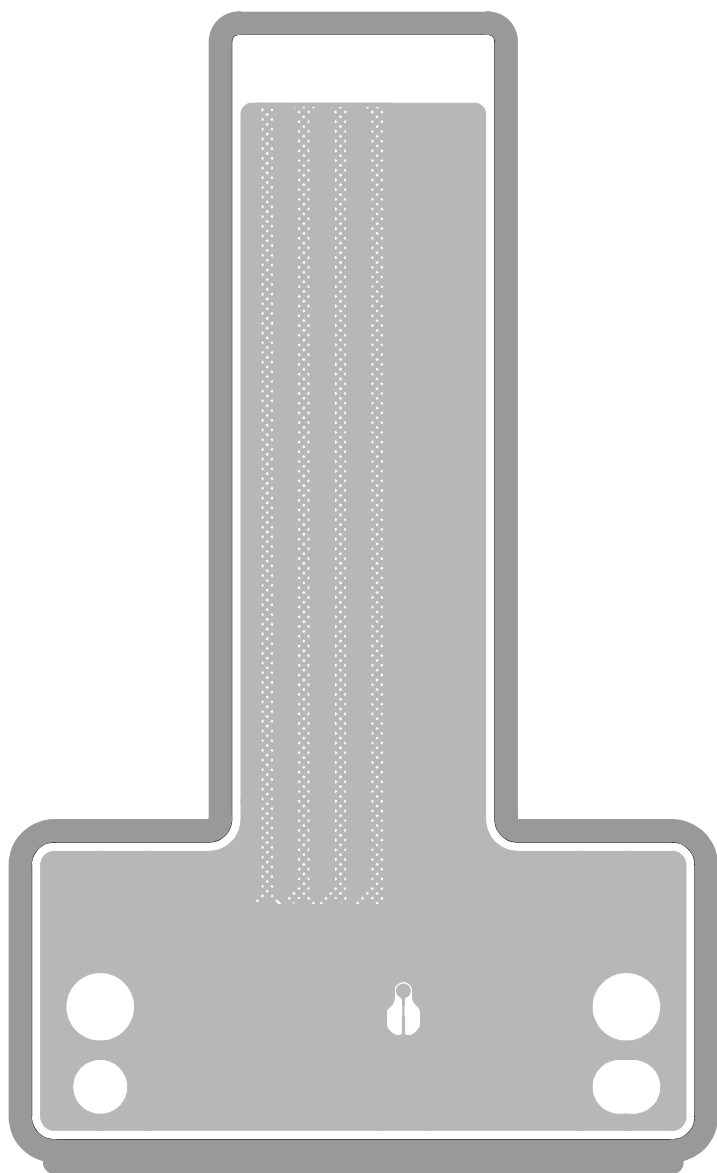


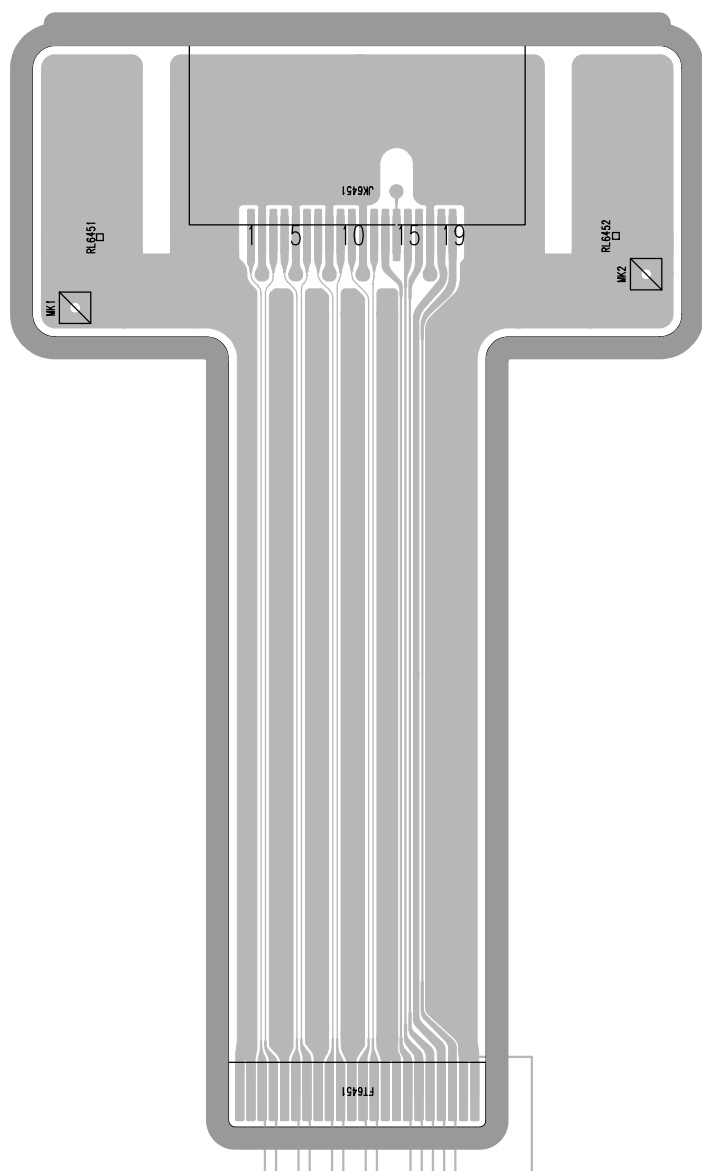




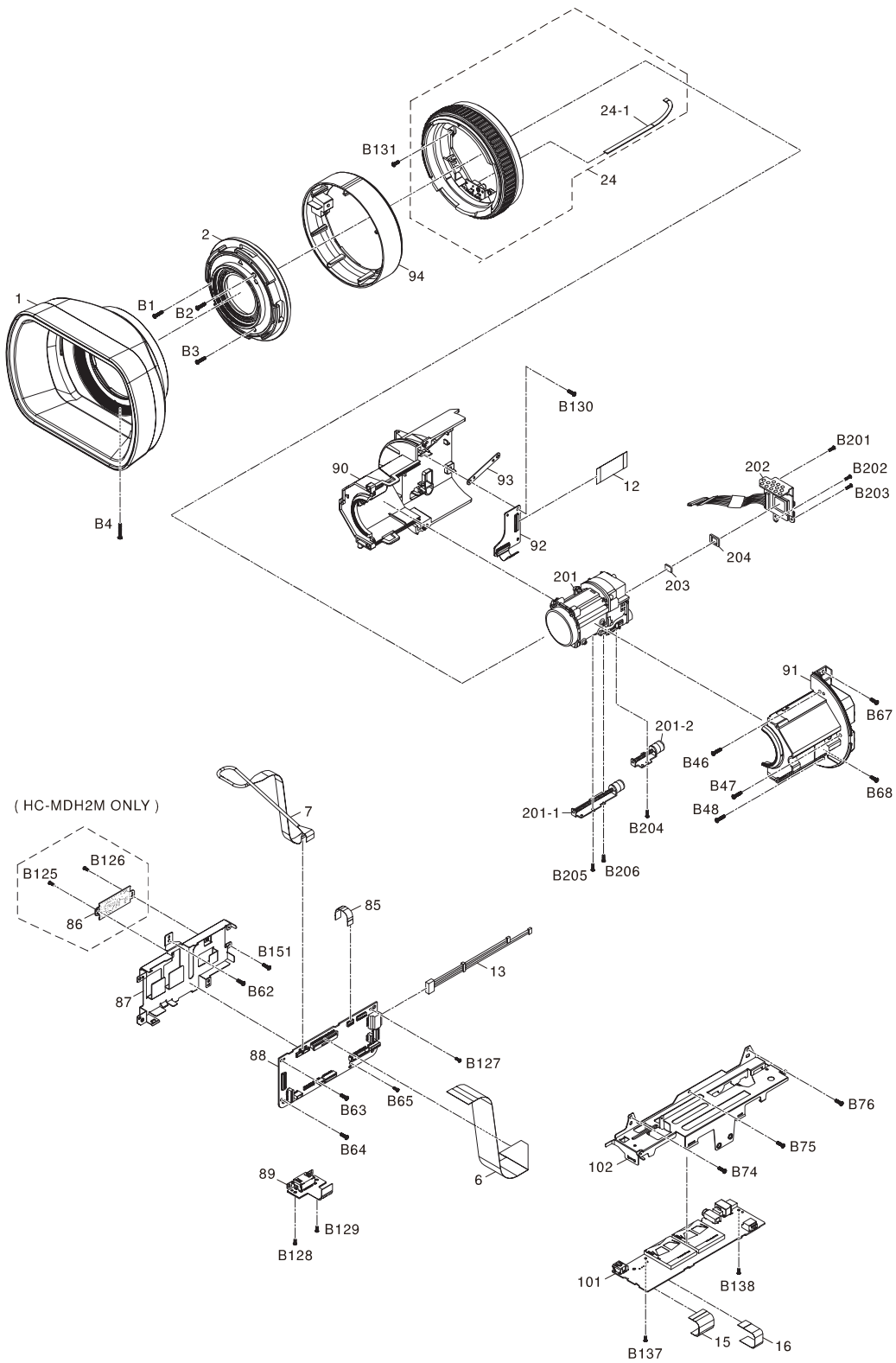




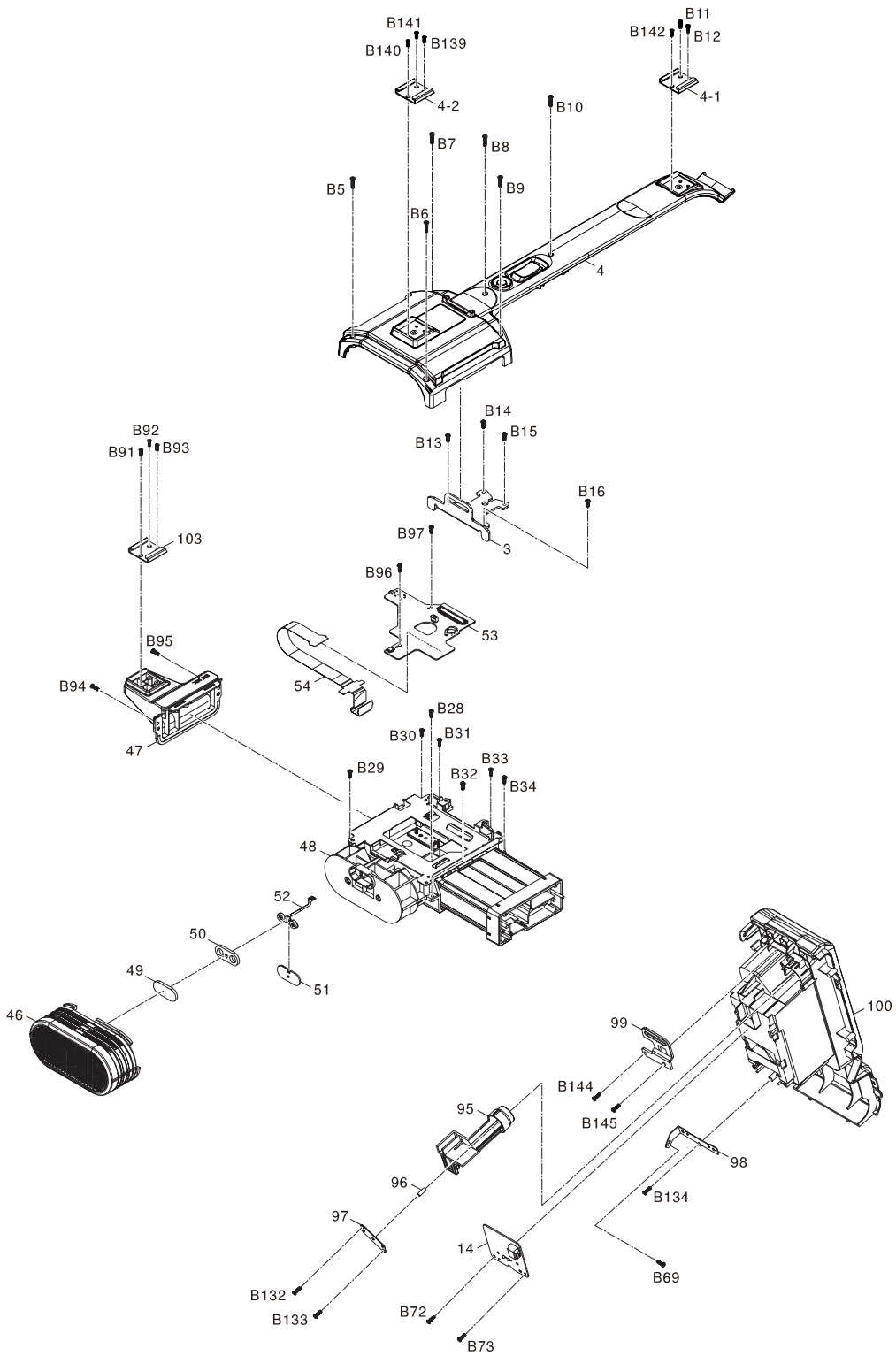




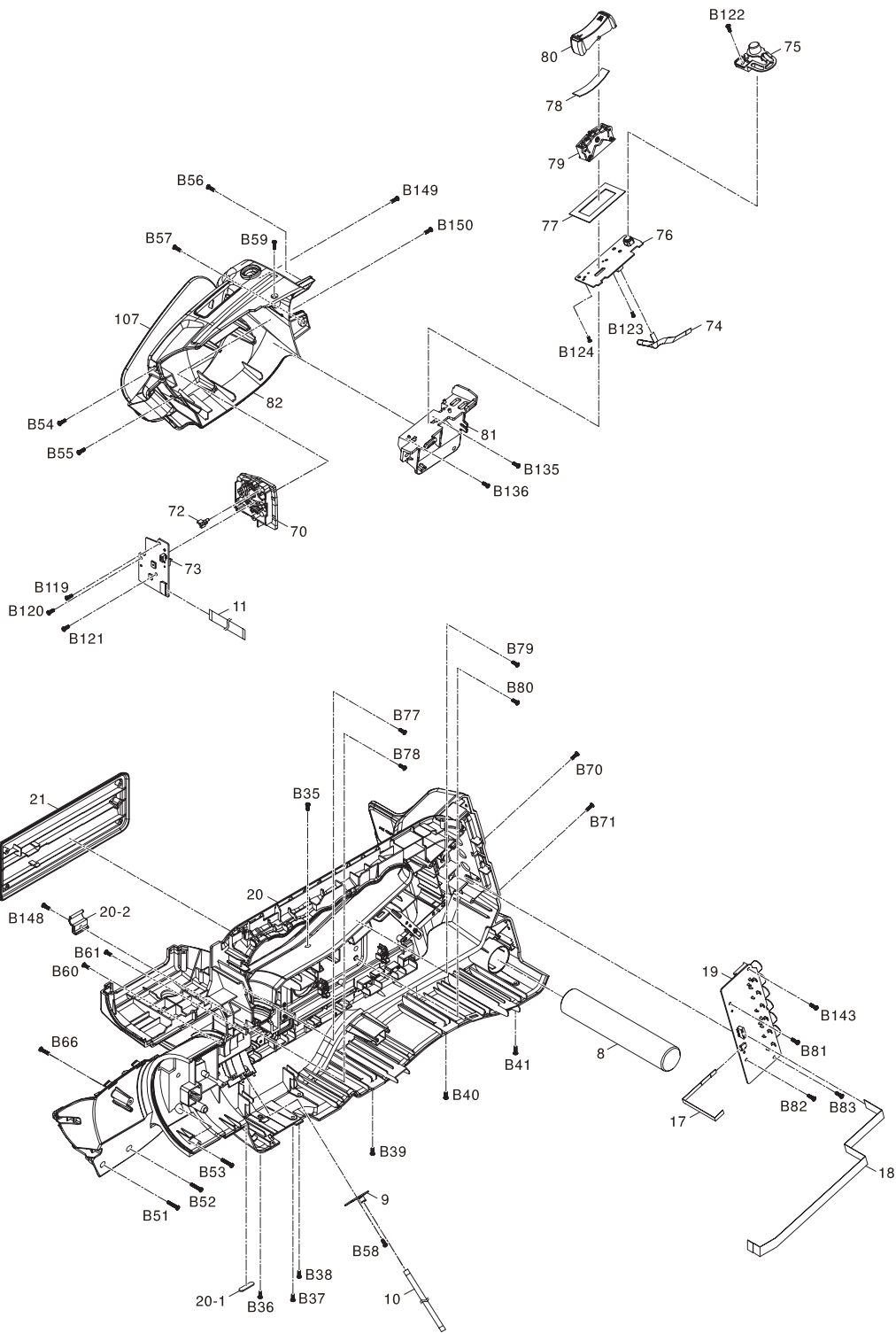
Model No. : HC-MDH2/MDH2M Frame and Casing Section (1)



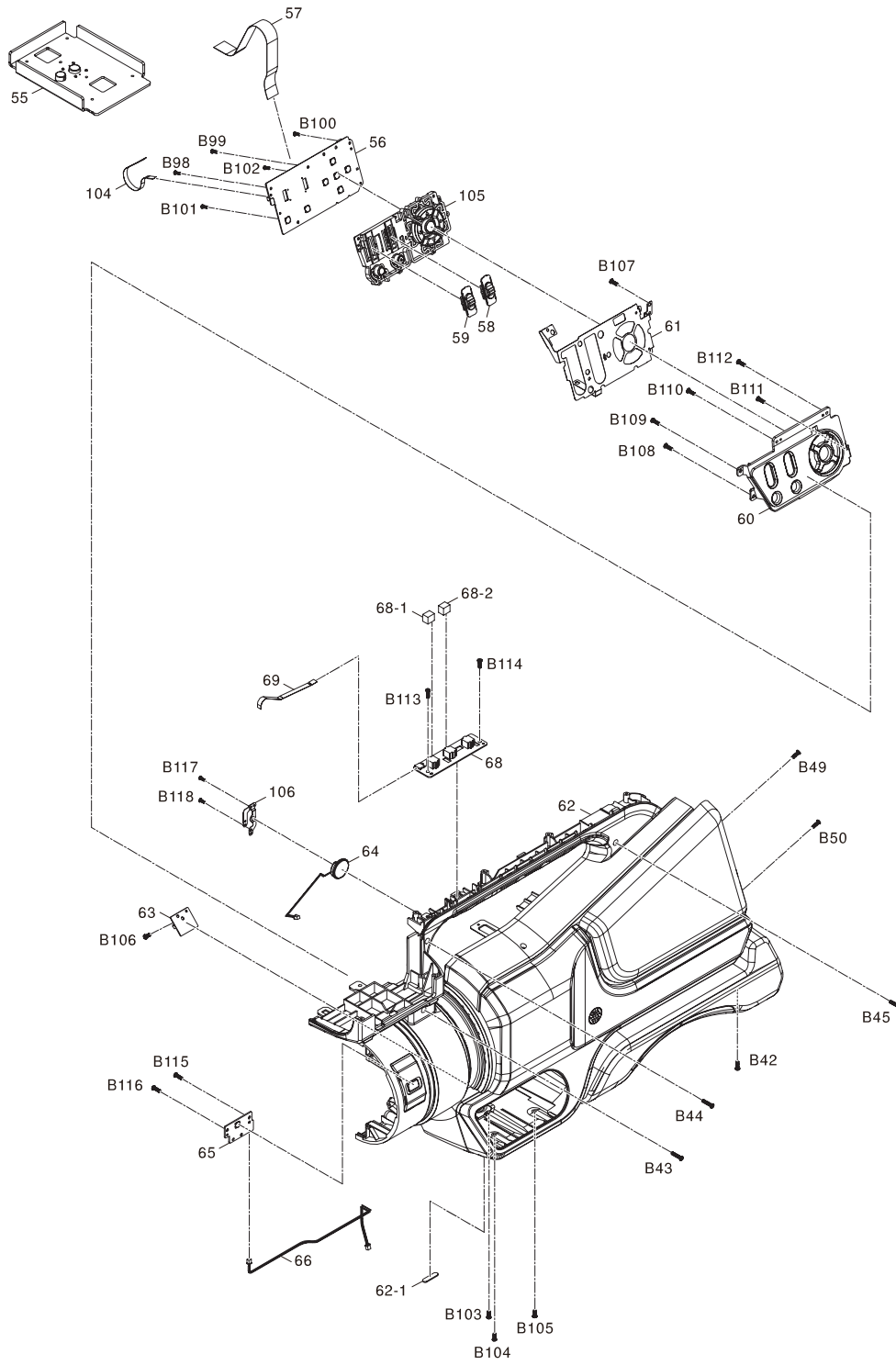
Model No. : HC-MDH2/MDH2M Frame and Casing Section (2)



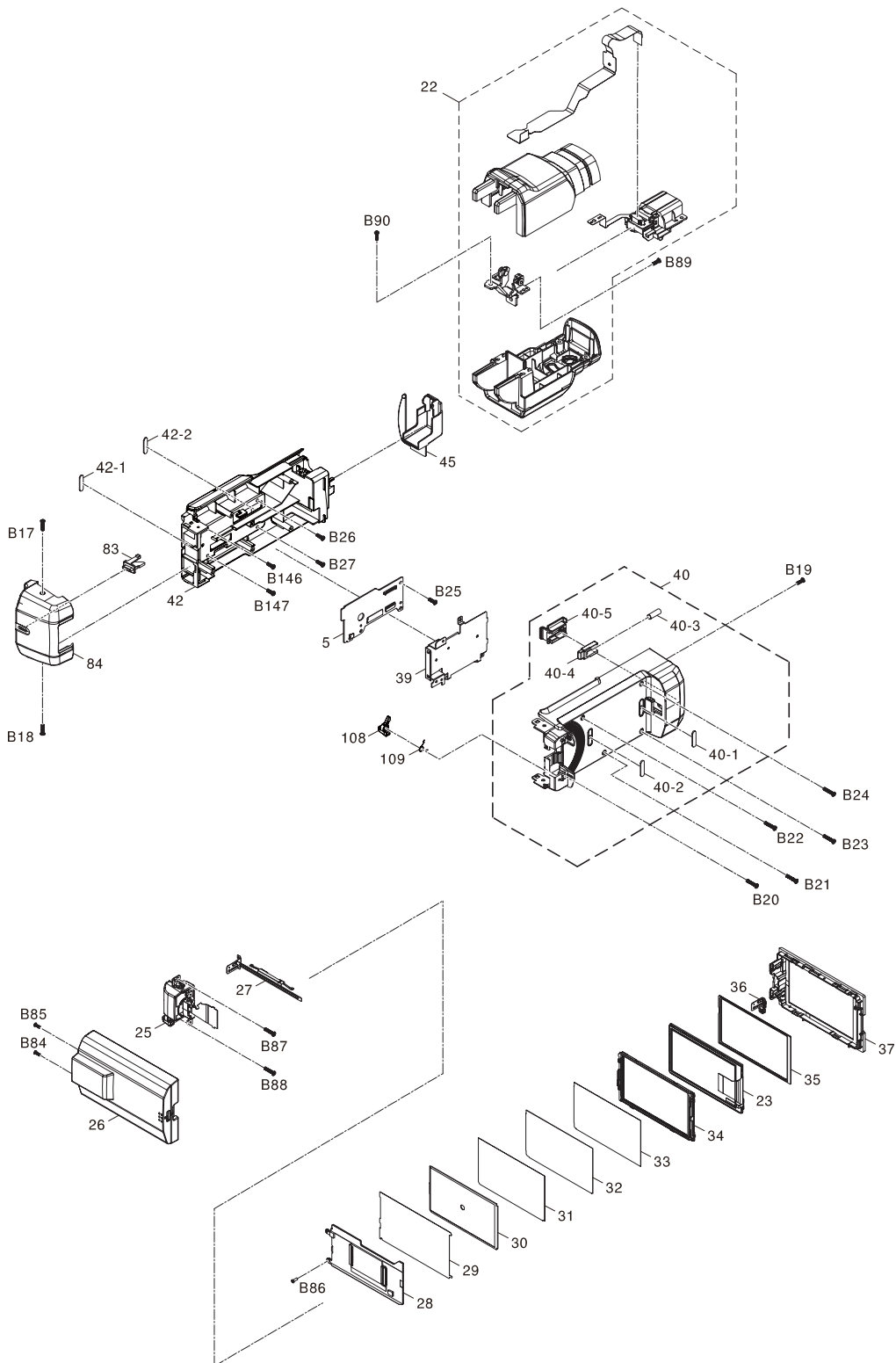
Model No. : HC-MDH2/MDH2M Frame and Casing Section (3)



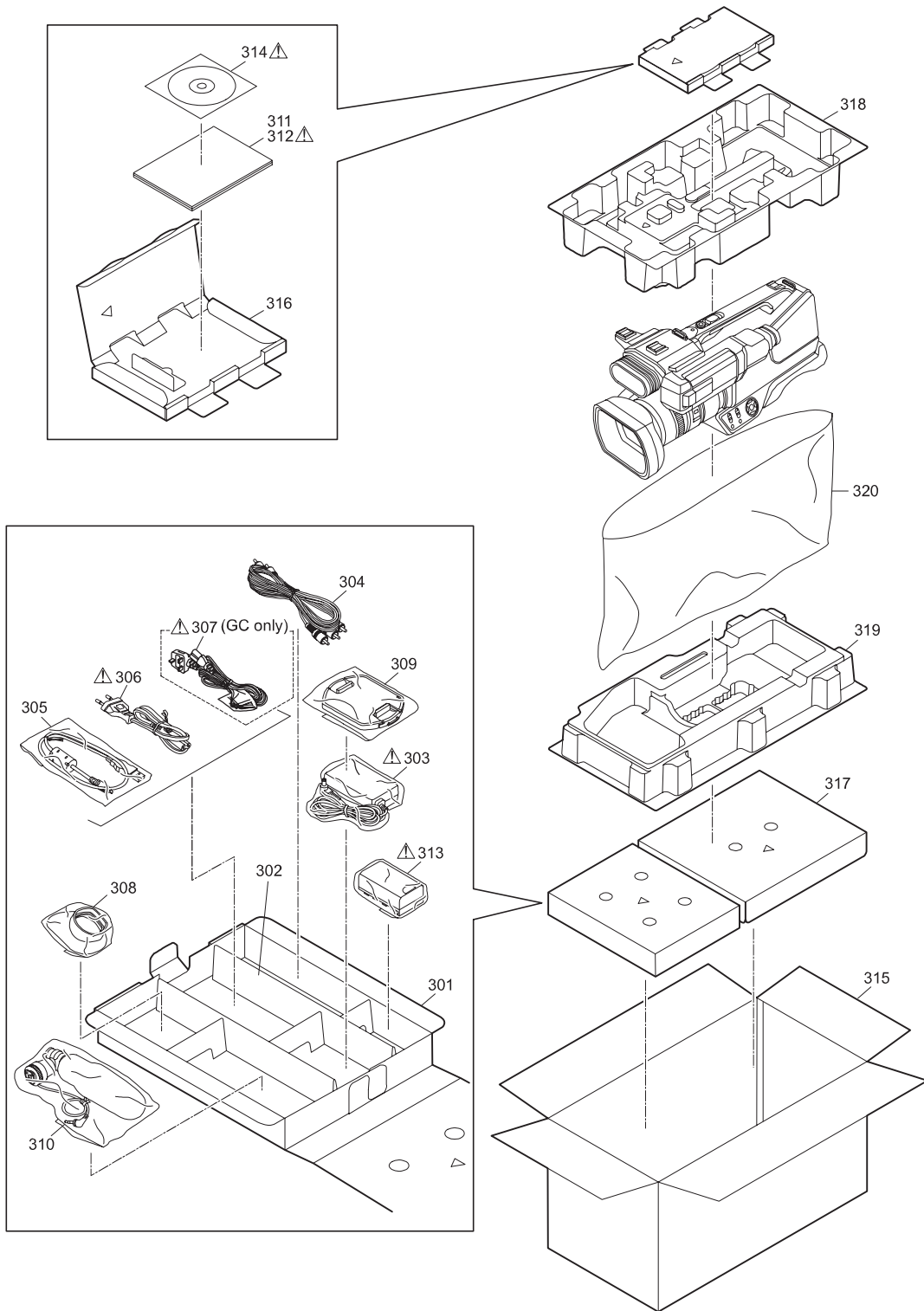
Model No. : HC-MDH2/MDH2M Frame and Casing Section (4)



Model No. : HC-MDH2/MDH2M Frame and Casing Section (5)



Model No. : HC-MDH2/MDH2M Packing Parts and Accessories Section



Model No. : HC-MDH2/MDH2M Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	⚠	B4901	N4ECY14Y0004	BATTERY	1	
		C301	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C303	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C304	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C305	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C309	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C310	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C311	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C314	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C317	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C502	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C504	F1G1H102A640	C.CAPACITOR CH 50V 1000P	1	
		C505	F1G1H102A640	C.CAPACITOR CH 50V 1000P	1	
		C702	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C703	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C704	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C705	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C706	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C708	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C712	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C713	F1G1H101A644	C.CAPACITOR CH 50V 100P	1	
		C714	F1G1H101A644	C.CAPACITOR CH 50V 100P	1	
		C715	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C716	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C718	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C719	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C720	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C721	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C722	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C723	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C724	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C725	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C726	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C727	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C741	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C742	F1G1H472A571	C.CAPACITOR CH 50V 4700P	1	
		C743	F1G1H472A571	C.CAPACITOR CH 50V 4700P	1	
		C751	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C753	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C754	F1G1H222A640	C.CAPACITOR CH 50V 2200P	1	
		C761	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C765	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C767	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C859	F1G1E1040001	C.CAPACITOR CH 25V 0.1U	1	
		C860	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C861	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C862	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C872	ECJ1VB1A105K	C.CAPACITOR CH 10V 1U	1	
		C873	ECJ1VB1A105K	C.CAPACITOR CH 10V 1U	1	
		C901	F1G1E1040001	C.CAPACITOR CH 25V 0.1U	1	
		C902	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C903	F1H0J4750004	C.CAPACITOR CH 6.3V 4.7U	1	
		C904	F1G1H220A644	C.CAPACITOR CH 50V 22P	1	
		C905	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C906	F1H0J4750004	C.CAPACITOR CH 6.3V 4.7U	1	
		C907	F1H0J4750004	C.CAPACITOR CH 6.3V 4.7U	1	
		C908	F1H0J2250008	C.CAPACITOR CH 6.3V 2.2U	1	
		C909	F1H0J4750004	C.CAPACITOR CH 6.3V 4.7U	1	
		C910	F1H0J2250008	C.CAPACITOR CH 6.3V 2.2U	1	
		C911	F1H1A4750001	C.CAPACITOR CH 10V 4.7U	1	
		C912	F1H1A4750001	C.CAPACITOR CH 10V 4.7U	1	
		C913	F1H1E105A116	C.CAPACITOR CH 25V 1U	1	

Model No. : HC-MDH2/MDH2M Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C914	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
		C915	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C916	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C917	F1H1A105A036	C.CAPACITOR CH 10V 1U	1	
		C918	F1H1A105A036	C.CAPACITOR CH 10V 1U	1	
		C919	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C920	F1H1A105A036	C.CAPACITOR CH 10V 1U	1	
		C921	F1H1A105A036	C.CAPACITOR CH 10V 1U	1	
		C922	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
		C923	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	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	
		C929	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	F1G1H100A643	C.CAPACITOR CH 50V 10P	1	
		C1005	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
		C1006	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C1011	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C1101	F1G1A473A032	C.CAPACITOR CH 10V 0.047U	1	
		C1102	F1G1A473A032	C.CAPACITOR CH 10V 0.047U	1	
		C1103	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C1104	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C1105	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C1106	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C1107	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C1109	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C1112	F1G1H472A571	C.CAPACITOR CH 50V 4700P	1	
		C1122	F1G1A473A032	C.CAPACITOR CH 10V 0.047U	1	
		C1132	F1G1H332A640	C.CAPACITOR CH 50V 3300P	1	
		C1162	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C1172	F1G1H102A640	C.CAPACITOR CH 50V 1000P	1	
		C1192	F1G1H332A640	C.CAPACITOR CH 50V 3300P	1	
		C1193	F1G1H471A640	C.CAPACITOR CH 50V 470P	1	
		C1211	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C1212	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C1221	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C1222	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C1231	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C1232	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C1233	F1G1H332A640	C.CAPACITOR CH 50V 3300P	1	
		C1262	F1J0J2260004	C.CAPACITOR CH 6.3V 22U	1	
		C1272	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C1291	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
		C1294	F1H1E105A116	C.CAPACITOR CH 25V 1U	1	
		C1295	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C1421	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C1424	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C1431	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C1471	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C1472	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C1501	F1H1E105A116	C.CAPACITOR CH 25V 1U	1	

Model No. : HC-MDH2/MDH2M Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C1502	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C1503	F1H1E105A116	C.CAPACITOR CH 25V 1U	1	
		C1504	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C1505	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C1506	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C1507	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C1508	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C1509	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C1510	ECJ1VB1A105K	C.CAPACITOR CH 10V 1U	1	
		C1511	F1G1A473A032	C.CAPACITOR CH 10V 0.047U	1	
		C1512	F1G1H101A644	C.CAPACITOR CH 50V 100P	1	
		C1513	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C1514	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C1515	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C1516	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C1520	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
		C1521	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
		C1522	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C1523	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C1524	F1G1E1040001	C.CAPACITOR CH 25V 0.1U	1	
		C1601	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C1602	F1J0J2260004	C.CAPACITOR CH 6.3V 22U	1	
		C1603	F1J0J2260004	C.CAPACITOR CH 6.3V 22U	1	
		C1606	F1G1H472A571	C.CAPACITOR CH 50V 4700P	1	
		C1607	F1G1C223A091	C.CAPACITOR CH 16V 0.022U	1	
		C1608	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C2301	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C2302	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C2303	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C2304	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3401	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C3402	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C3403	F1H0J4750004	C.CAPACITOR CH 6.3V 4.7U	1	
		C3405	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C3408	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C3410	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3411	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3412	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3413	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3414	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3415	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3416	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3417	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3418	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3419	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3420	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3421	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3423	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C3424	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3425	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3426	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3427	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3428	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3429	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3430	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3431	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3432	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3433	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3434	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3435	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3436	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3437	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	

Model No. : HC-MDH2/MDH2M Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C3438	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3439	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3440	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3441	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3443	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C3444	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3445	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3446	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C3447	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C3448	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C3449	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3450	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C3451	F1G1H472A571	C.CAPACITOR CH 50V 4700P	1	
		C3452	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C3453	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C3454	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C3457	F1G1H102A640	C.CAPACITOR CH 50V 1000P	1	
		C3459	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3460	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C3462	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C3464	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3465	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3466	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C3469	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3470	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3471	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3472	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3473	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3475	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C3476	F1H0J4750004	C.CAPACITOR CH 6.3V 4.7U	1	
		C3477	F1H0J4750004	C.CAPACITOR CH 6.3V 4.7U	1	
		C3478	F1H0J4750004	C.CAPACITOR CH 6.3V 4.7U	1	
		C3479	F1H0J4750004	C.CAPACITOR CH 6.3V 4.7U	1	
		C3480	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C3481	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3482	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3483	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C3702	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3703	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3704	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C3705	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C3707	F1H0J4750004	C.CAPACITOR CH 6.3V 4.7U	1	
		C3708	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C3709	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C3710	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C3711	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C3712	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C3713	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C3714	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C3715	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C3716	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C3717	F1J0J2260004	C.CAPACITOR CH 6.3V 22U	1	
		C3718	F1J1A106A043	C.CAPACITOR CH 10V 10U	1	
		C3906	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C3907	F3G0J1070004	E.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	
		C3936	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	(MDH2)
		C3937	F3G0J1070004	E.CAPACITOR CH 6.3V 100U	1	(MDH2)
		C3938	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	(MDH2)


Model No. : HC-MDH2/MDH2M Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C3940	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	(MDH2)
		C3941	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	(MDH2)
		C3951	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C3952	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C3953	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C3954	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
		C3955	ECJ1VB1C105K	C.CAPACITOR CH 16V 1U	1	
		C3956	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	(MDH2M)
		C3957	FLJ1A106A043	C.CAPACITOR CH 10V 10U	1	
		C3958	FLJ1A106A043	C.CAPACITOR CH 10V 10U	1	
		C3961	FLH1E105A116	C.CAPACITOR CH 25V 1U	1	
		C4501	F1G1H472A571	C.CAPACITOR CH 50V 4700P	1	
		C4502	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C4503	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C4504	F1G1H102A640	C.CAPACITOR CH 50V 1000P	1	
		C4505	F1G1H472A571	C.CAPACITOR CH 50V 4700P	1	
		C4801	F1G1A473A032	C.CAPACITOR CH 10V 0.047U	1	
		C4802	F1G1A473A032	C.CAPACITOR CH 10V 0.047U	1	
		C4803	F1G1H680A644	C.CAPACITOR CH 50V 68P	1	
		C4804	F1G1H680A644	C.CAPACITOR CH 50V 68P	1	
		C4805	F1G1H471A640	C.CAPACITOR CH 50V 470P	1	
		C4806	F1G1H471A640	C.CAPACITOR CH 50V 470P	1	
		C4816	FLJ0J2260004	C.CAPACITOR CH 6.3V 22U	1	
		C4817	FLJ0J2260004	C.CAPACITOR CH 6.3V 22U	1	
		C4818	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C4901	F1G1H472A571	C.CAPACITOR CH 50V 4700P	1	
		C4902	F1G1H472A571	C.CAPACITOR CH 50V 4700P	1	
		C4903	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C4905	FLJ0J2260004	C.CAPACITOR CH 6.3V 22U	1	
		C4906	FLJ0J2260004	C.CAPACITOR CH 6.3V 22U	1	
		C4908	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C4909	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C4910	FLJ0J2260004	C.CAPACITOR CH 6.3V 22U	1	
		C4913	FLH0J4750004	C.CAPACITOR CH 6.3V 4.7U	1	
		C4914	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C4916	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C4917	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C4918	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C4919	F1G1E1040001	C.CAPACITOR CH 25V 0.1U	1	
		C4920	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C4921	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C4922	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C4923	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C4924	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C4925	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C6001	ECJ1VB1A105K	C.CAPACITOR CH 10V 1U	1	
		C6003	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C6006	F1G0J1050007	C.CAPACITOR CH 6.3V 1U	1	
		C6009	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C6010	F1G1E1040001	C.CAPACITOR CH 25V 0.1U	1	
		C6013	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C6014	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C6017	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C6018	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C6022	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C6023	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C6401	FLJ1A106A043	C.CAPACITOR CH 10V 10U	1	
		C6403	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C6404	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C6405	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C6407	F1G1C104A077	C.CAPACITOR CH 16V 0.1U	1	
		C6681	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	

Model No. : HC-MDH2/MDH2M Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C6682	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6683	F1G1E1030005	C.CAPACITOR CH 25V 0.01U	1	
		C6701	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	
		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	
		D851	B3AAB0000343	LED	1	E.S.D.
		D901	DZ2J200M0L	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.
		D1271	B0ACRC000001	DIODE	1	E.S.D.
		D1291	B0ACRC000001	DIODE	1	E.S.D.
		D1501	B0JCMC000019	DIODE	1	E.S.D.
		D1502	DB2S31100L	DIODE	1	E.S.D.
		D1503	DB2S31100L	DIODE	1	E.S.D.
		D1504	DB2S31100L	DIODE	1	E.S.D.
		D2301	DB2S31100L	DIODE	1	E.S.D.
		D3401	DB2S31100L	DIODE	1	E.S.D.
		D3901	B3AAB0000322	LED	1	E.S.D.
		D3931	B3AAB0000322	LED	1	E.S.D.
		D3953	B3ABB0000226	LED	1	E.S.D.
		D6401	B3AAB0000343	LED	1	E.S.D.
		D6631	B3AEB0000139	DIODE	1	E.S.D.
		D6632	B3AAB0000343	LED	1	E.S.D.
		D6641	B3AEB0000139	DIODE	1	E.S.D.
		D6642	B3AAB0000343	LED	1	E.S.D.
		ET3901	K4CD01000010	EARTH TERMINAL	1	
		FL3961	JOZZB0000186	FILTER	1	
		FL6001	JOZZB0000122	FILTER	1	
		FL6002	JOZZB0000122	FILTER	1	
		FP851	K1MY27BA0605	CONNECTOR 27P	1	
		FP852	K1MY39BA0575	CONNECTOR 39P	1	
		FP853	K1MN28BA0197	CONNECTOR 28P	1	
		FP901	K1MY32BA0370	CONNECTOR 32P	1	
		FP904	K1MY51BA0575	CONNECTOR 51P	1	
		FP905	K1MN04BA0197	CONNECTOR 4P	1	
		FP3901	K1MY30BA0385	CONNECTOR 30P	1	
		FP3902	K1MN16BA0197	CONNECTOR 16P	1	
		FP4501	K1MN16A00077	CONNECTOR 16P	1	
		FP4502	K1MN06BA0197	CONNECTOR 6P	1	
		FP4901	K1MN45BA0153	CONNECTOR 45P	1	
		FP4902	K1MN06BA0108	CONNECTOR 6P	1	
		FP4903	K1MN06A00065	CONNECTOR 6P	1	
		FP4904	K1MN28BA0197	CONNECTOR 28P	1	
		FP6001	K1MN45AA0024	CONNECTOR 45P	1	
		FP6002	K1MN22BA0197	CONNECTOR 22P	1	
		FP6003	K1MN16A00077	CONNECTOR 16P	1	
		FP6004	K1MN30AA0018	CONNECTOR 30P	1	
		FP6005	K1MN16A00077	CONNECTOR 16P	1	
		FP6006	K1MN18A00064	CONNECTOR 18P	1	
		FP6007	K1MN20A00086	CONNECTOR 20P	1	
		FP6008	K1MY45BA0605	CONNECTOR 45P	1	
		FP6011	K1MN06A00065	CONNECTOR 6P	1	
		FP6108	K1MY39BA0575	CONNECTOR 39P	1	

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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		FP6201	K1MY45BA0605	CONNECTOR 45P	1	
		FP6401	K1MN18BA0197	CONNECTOR 18P	1	
		FP6402	K1MN06A00065	CONNECTOR 6P	1	
		FP6631	K1MN06A00065	CONNECTOR 6P	1	
		FP6641	K1MN06A00065	CONNECTOR 6P	1	
		FP6681	K1MN06BA0197	CONNECTOR 6P	1	
		FP6691	K1MN06A00065	CONNECTOR 6P	1	
		FP6701	K1MN06A00065	CONNECTOR 6P	1	
		FP6951	K1MY20BA0370	CONNECTOR 20P	1	
		FP6953	K1MN06A00065	CONNECTOR 6P	1	
		HS3901	K1NA09E00098	SD CARD SLOT	1	
		HS3931	K1NA09E00098	SD CARD SLOT	1	(MDH2)
		IC301	C0DBGYY02152	IC	1	E.S.D.
		IC302	C0JBAA000577	IC	1	E.S.D.
		IC304	C0DBGYY00915	IC	1	E.S.D.
		IC701	C1AB00003719	IC	1	E.S.D.
		IC703	C0DBGYY00909	IC	1	E.S.D.
		IC704	C0DBGYY00936	IC	1	E.S.D.
		IC706	C0GBC0000028	IC	1	E.S.D.
		IC751	EWTS9RCL1A	IC	1	E.S.D.
		IC761	C0ABGA000035	IC	1	E.S.D.
		IC901	C1CB00002847	IC	1	E.S.D.
		IC902	B4ZZ00000031	IC	1	E.S.D.
		IC1001	VUEALLPT049	IC	1	E.S.D.
		IC1011	C0DBGYY03536	IC	1	E.S.D.
		IC1421	C0DBGYY04827	IC	1	E.S.D.
		IC1424	C0CBCYY00043	IC	1	E.S.D.
		IC1431	C0DBGYY02108	IC	1	E.S.D.
		IC1471	C0DBZYY00577	IC	1	E.S.D.
		IC1502	C0JBAR000432	IC	1	E.S.D.
		IC1601	C0DBAYY01300	IC	1	E.S.D.
		IC2301	C0DBGYY00014	IC	1	E.S.D.
		IC2302	C0EBR0000066	IC	1	E.S.D.
		IC2303	C1ZBZ0004142	IC	1	E.S.D.
		IC3401	C1AB00004005	IC	1	E.S.D.
		IC3402	C3ABWY000001	IC	1	E.S.D.
		IC3403	TC58RYM9M13B	IC	1	E.S.D.
		IC3405	C0EBY0000906	IC	1	E.S.D.
		IC3701	NN12924A-BB	IC	1	E.S.D.
		IC3951	C0JBAS000401	IC	1	E.S.D.
		IC4802	C0ABB000369	IC	1	E.S.D.
		IC6401	EWTS9PDL1A	IC	1	E.S.D.
		IC6411	VUEALLPT053	IC	1	E.S.D.
		IC6953	C0JBAQ000253	IC	1	E.S.D.
		IP3961	K5H402YA0080	IC PROTECTOR	1	
		IP6701	K5H402YA0080	IC PROTECTOR	1	
		JK3951	K2HC106E0007	JACK, HEADPHONE	1	
		JK3952	K2HZ105E0011	JACK, MINI USB	1	
		JK3953	K1FY104B0076	JACK, USB	1	
		JK3961	K2EC2E000006	JACK, DC	1	
		JK4501	K2HA304B0022	JACK, AV	1	
		JK4502	K2HA304B0021	JACK, AV	1	
		JK4901	K2HC106E0009	JACK, MIC	1	
		JK6451	K1FA119E0009	JACK, HDMI	1	
		JK6701	K4ZZ04000049	JACK, BATTERY CATCH	1	
		L301	G1C100MA0072	CHIP INDUCTOR 10UH	1	
		L303	G1C4R7MA0072	CHIP INDUCTOR 4.7UH	1	
		L304	G1C100MA0072	CHIP INDUCTOR 10UH	1	
		L1211	G1C100MA0461	CHIP INDUCTOR 10UH	1	
		L1221	G1C100MA0426	CHIP INDUCTOR 10UH	1	
		L1231	G1C100MA0426	CHIP INDUCTOR 10UH	1	
		L1261	G1C100MA0461	CHIP INDUCTOR 10UH	1	

Model No. : HC-MDH2/MDH2M Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		L1271	G1C100MA0426	CHIP INDUCTOR 10UH	1	
		L1291	G1C330MA0477	CHIP INDUCTOR 33UH	1	
		L1501	G1C100MA0426	CHIP INDUCTOR 10UH	1	
		L1601	G1C4R7ZA0240	CHIP INDUCTOR 4.7UH	1	
		L3401	G1C100MA0495	CHIP INDUCTOR 10UH	1	
		L3402	G1C100MA0408	CHIP INDUCTOR 10UH	1	
		L3701	G1C4R7MA0073	CHIP INDUCTOR 4.7UH	1	
		L3702	G1C100KA0115	CHIP INDUCTOR 10UH	1	
		LB301	J0JBC0000099	FILTER	1	
		LB901	J0JBC0000099	FILTER	1	
		LB902	J0JHC0000078	FILTER	1	
		LB3401	J0JBC0000099	FILTER	1	
		LB3402	J0JBC0000099	FILTER	1	(MDH2)
		LB3403	J0JBC0000099	FILTER	1	(MDH2M)
		LB3404	G1C10NJ00008	COIL	1	
		LB3405	G1C10NJ00008	COIL	1	
		LB3451	J0JGC0000059	FILTER	1	(MDH2M)
		LB3951	J0JCC0000276	FILTER	1	
		LB3952	J0JCC0000276	FILTER	1	
		LB3953	J0JCC0000276	FILTER	1	
		LB3954	J0JHC0000078	FILTER	1	
		LB3961	J0JJC0000015	FILTER	1	
		LB3962	J0JJC0000015	FILTER	1	
		LB4501	J0JCC0000276	FILTER	1	
		LB4503	J0JCC0000408	FILTER	1	
		LB4504	J0JCC0000408	FILTER	1	
		LB4505	J0JCC0000408	FILTER	1	
		LB4506	J0JCC0000276	FILTER	1	
		LB4507	J0JCC0000276	FILTER	1	
		LB4923	J0JCC0000276	FILTER	1	
		LB4924	J0JCC0000276	FILTER	1	
		LB4926	J0JCC0000276	FILTER	1	
		LB6001	J0JCC0000276	FILTER	1	
		LB6002	J0JCC0000276	FILTER	1	
		LB6003	J0JCC0000276	FILTER	1	
		LB6004	J0JCC0000276	FILTER	1	
		LB6005	J0JBC0000115	FILTER	1	
		LB6010	J0JBC0000115	FILTER	1	
		LB6011	J0JBC0000115	FILTER	1	
		LB6012	J0JBC0000115	FILTER	1	
		LB6013	J0JBC0000115	FILTER	1	
		LB6014	J0JBC0000115	FILTER	1	
		LB6015	J0JBC0000115	FILTER	1	
		LB6016	J0JBC0000115	FILTER	1	
		LB6017	J0JBC0000115	FILTER	1	
		LB6018	J0JJC0000015	FILTER	1	
		LB6019	J0JJC0000015	FILTER	1	
		LB6020	J0JCC0000276	FILTER	1	
		LB6021	J0JCC0000276	FILTER	1	
		LB6022	J0JCC0000276	FILTER	1	
		LB6023	J0JCC0000276	FILTER	1	
		LB6024	J0JCC0000276	FILTER	1	
		LB6025	J0JCC0000276	FILTER	1	
		LB6026	J0JCC0000276	FILTER	1	
		LB6027	J0JCC0000276	FILTER	1	
		LB6028	J0JCC0000276	FILTER	1	
		LB6029	J0JCC0000276	FILTER	1	
		LB6030	J0JCC0000276	FILTER	1	
		LB6031	J0JCC0000276	FILTER	1	
		LB6032	J0JCC0000276	FILTER	1	
		LB6033	J0JCC0000276	FILTER	1	
		LB6034	J0JCC0000276	FILTER	1	

Model No. : HC-MDH2/MDH2M Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		LB6035	JOJCC0000276	FILTER	1	
		LB6405	JOJCC0000276	FILTER	1	
		LB6406	JOJCC0000276	FILTER	1	
		LB6407	JOJCC0000276	FILTER	1	
		LB6408	JOJCC0000276	FILTER	1	
		LB6701	JOJCC0000276	FILTER	1	
		LB6702	JOJCC0000276	FILTER	1	
		P301	K1KY40AA1067	CONNECTOR 40P	1	
		P3961	K1KA02B00247	CONNECTOR 2P	1	
		P6002	K1KA04AA0051	CONNECTOR 4P	1	
		P6003	K1KA04BA0050	CONNECTOR 4P	1	
		P6601	K1KA02BA0014	CONNECTOR 2P	1	
		P6701	K1KA02B00247	CONNECTOR 2P	1	
		P6951	K1KA02AA0051	CONNECTOR 2P	1	
		P6952	K1KA02BA0014	CONNECTOR 2P	1	
		PS851	K1KY20AA0805	CONNECTOR 20P	1	
		PS6002	K1KY20AA0805	CONNECTOR 20P	1	
		Q773	B1ADGE000014	TRANSISTOR	1	E.S.D.
		Q1002	B1CHRD000092	TRANSISTOR	1	E.S.D.
		Q1091	B1ADGE000014	TRANSISTOR	1	E.S.D.
		Q1441	B1HBDFA00005	TRANSISTOR	1	E.S.D.
		Q1501	B1CHQD000012	TRANSISTOR	1	E.S.D.
		Q1502	B1CHRD000092	TRANSISTOR	1	E.S.D.
		Q1503	B1CFQD000014	TRANSISTOR	1	E.S.D.
		Q1504	B1CHRD000092	TRANSISTOR	1	E.S.D.
		Q1505	FK3303010L	TRANSISTOR	1	E.S.D.
		Q1506	DSC300100L	TRANSISTOR	1	E.S.D.
		Q2301	DSA300100L	TRANSISTOR	1	E.S.D.
		Q3401	B1CFGD000003	TRANSISTOR	1	E.S.D.
		Q3901	B1ADKB000015	TRANSISTOR	1	E.S.D.
		Q3931	B1ADKB000015	TRANSISTOR	1	(MDH2) E.S.D.
		Q4801	DSC900100L	TRANSISTOR	1	E.S.D.
		Q4901	DSC900100L	TRANSISTOR	1	E.S.D.
		Q4902	DSA900100L	TRANSISTOR	1	E.S.D.
		Q4903	DSC900100L	TRANSISTOR	1	E.S.D.
		Q4904	DSA900100L	TRANSISTOR	1	E.S.D.
		Q4907	DSC900100L	TRANSISTOR	1	E.S.D.
		Q4908	DSC900100L	TRANSISTOR	1	E.S.D.
		QR773	DRC3143Z0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR775	DRC3143T0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR1001	DRC3144E0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR1002	DRA3144E0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR1003	DRC3144E0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR1091	DRC3113Z0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR1101	DRC3114Y0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR1291	DRC3114Y0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR1501	DRC3114Y0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR1502	DRC3114Y0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR1503	DRA3144E0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR1504	DRC3114Y0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR1505	DRA3144E0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR2301	DRA3144E0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3401	DRC3144W0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3402	DRA3144E0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3403	DRA3143T0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3404	DRC3114Y0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3405	DRA3144E0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3406	DRC3144W0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3408	DRA3114Y0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3409	DRA3114Y0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3410	DRC3143T0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3411	DRA3143T0L	TRANSISTOR-RESISTOR	1	E.S.D.

Model No. : HC-MDH2/MDH2M Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		QR3412	DRC3143T0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3413	DRA3143T0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3414	DRA3114Y0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3415	DRA3114Y0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3416	DRA3143T0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3417	DRA3143T0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3418	DRA3143T0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3419	DRC3114Y0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3420	DRC3114Y0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3421	DRC3114Y0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3422	DRC3114Y0L	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3423	DRA3114T0L	TRANSISTOR-RESISTOR	1	E.S.D.
		R304	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
		R305	ERJ2GEJ470	M.RESISTOR CH 1/10W 47	1	
		R508	ERJ2GEJ100	M.RESISTOR CH 1/10W 10	1	
		R509	ERJ2GEJ100	M.RESISTOR CH 1/10W 10	1	
		R510	ERJ2GEJ100	M.RESISTOR CH 1/10W 10	1	
		R511	ERJ2GEJ100	M.RESISTOR CH 1/10W 10	1	
		R711	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
		R712	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
		R714	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
		R715	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
		R716	ERJ2GEJ102X	M.RESISTOR CH 1/10W 1K	1	
		R717	ERJ2RHD682X	M.RESISTOR CH 1/10W 6.8K	1	
		R720	ERJ2GEJ221	M.RESISTOR CH 1/10W 220	1	
		R741	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
		R742	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
		R743	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
		R744	ERJ2RKD124	M.RESISTOR CH 1/16W 120K	1	
		R745	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
		R746	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
		R761	ERJ2GEJ223	M.RESISTOR CH 1/10W 22K	1	
		R765	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
		R766	ERJ2RHD683	M.RESISTOR CH 1/16W 68K	1	
		R767	ERJ2GEJ222	M.RESISTOR CH 1/10W 2.2K	1	
		R768	ERJ2RHD683	M.RESISTOR CH 1/16W 68K	1	
		R771	ERJ2GEJ473	M.RESISTOR CH 1/10W 47K	1	
		R772	ERJ2GEJ821	M.RESISTOR CH 1/10W 820	1	
		R775	ERJ2GEJ221	M.RESISTOR CH 1/10W 220	1	
		R776	ERJ2GEJ473	M.RESISTOR CH 1/10W 47K	1	
		R778	ERJ2GEJ473	M.RESISTOR CH 1/10W 47K	1	
		R779	ERJ2GEJ221	M.RESISTOR CH 1/10W 220	1	
		R791	ERJ2GEJ391	M.RESISTOR CH 1/10W 390	1	
		R792	ERJ2GEJ391	M.RESISTOR CH 1/10W 390	1	
		R793	ERJ2GEJ221	M.RESISTOR CH 1/10W 220	1	
		R851	ERJ2GEJ102X	M.RESISTOR CH 1/10W 1K	1	
		R911	D0YAR0000007	M.RESISTOR CH 1/10W 0	1	
		R913	ERJ2GEJ151	M.RESISTOR CH 1/10W 150	1	
		R914	ERJ2GEJ151	M.RESISTOR CH 1/10W 150	1	
		R915	ERJ2GEJ101	M.RESISTOR CH 1/10W 100	1	
	⚠	R1001	D1JB2R70A023	FUSING RESISTOR 2.7	1	
		R1006	ERJ2GEJ104	M.RESISTOR CH 1/10W 100K	1	
		R1091	ERJ2GEJ473	M.RESISTOR CH 1/10W 47K	1	
		R1092	ERJ2GEJ102X	M.RESISTOR CH 1/10W 1K	1	
		R1101	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	
		R1107	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
		R1111	ERJ2GEJ202	M.RESISTOR CH 1/10W 2K	1	
		R1121	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
		R1131	ERJ2GEJ511	M.RESISTOR CH 1/10W 510	1	
		R1161	ERJ2GEJ102X	M.RESISTOR CH 1/10W 1K	1	
		R1171	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
		R1191	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	

Model No. : HC-MDH2/MDH2M Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R1192	ERJ2GEJ303	M.RESISTOR CH 1/10W 30K	1	
		R1212	ERJ2RHD123X	M.RESISTOR CH 1/16W 12K	1	
		R1214	ERJ2RHD302	M.RESISTOR CH 1/16W 3K	1	
		R1222	ERJ2RHD622	M.RESISTOR CH 1/16W 6.2K	1	
		R1223	ERJ2RHD511	M.RESISTOR CH 1/16W 510	1	
		R1224	ERJ2RHD302	M.RESISTOR CH 1/16W 3K	1	
		R1232	ERJ2RHD242	M.RESISTOR CH 1/16W 2.4K	1	
		R1233	ERJ2RKD330	M.RESISTOR CH 1/16W 33	1	
		R1234	ERJ2RHD302	M.RESISTOR CH 1/16W 3K	1	
		R1235	ERJ2GEJ511	M.RESISTOR CH 1/10W 510	1	
		R1262	ERJ2RHD751	M.RESISTOR CH 1/16W 750	1	
		R1263	ERJ2RKD330	M.RESISTOR CH 1/16W 33	1	
		R1264	ERJ2RHD302	M.RESISTOR CH 1/16W 3K	1	
		R1272	ERJ2RHD123X	M.RESISTOR CH 1/16W 12K	1	
		R1273	ERJ2RHD331	M.RESISTOR CH 1/16W 330	1	
		R1274	ERJ2RHD302	M.RESISTOR CH 1/16W 3K	1	
	⚠	R1291	DLJBR770A023	FUSING RESISTOR 0.77	1	
		R1295	ERJ2GEJ223	M.RESISTOR CH 1/10W 22K	1	
		R1296	ERJ2GEJ100	M.RESISTOR CH 1/10W 10	1	
		R1297	ERJ2GEJ473	M.RESISTOR CH 1/10W 47K	1	
		R1298	ERJ2GEJ224	M.RESISTOR CH 1/10W 220K	1	
		R1331	ERJ2GEJ471	M.RESISTOR CH 1/10W 470	1	
		R1431	ERJ2GEJ102X	M.RESISTOR CH 1/10W 1K	1	
		R1441	ERJ2GED273X	M.RESISTOR CH 1/10W 27K	1	
		R1442	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
		R1443	ERJ2GEJ392	M.RESISTOR CH 1/10W 3.9K	1	
		R1444	ERJ2GEJ224	M.RESISTOR CH 1/10W 220K	1	
		R1445	ERJ2GEJ680	M.RESISTOR CH 1/10W 68	1	
		R1471	ERJ2GEJ203X	M.RESISTOR CH 1/10W 22K	1	
		R1472	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
		R1473	ERJ2GEJ473	M.RESISTOR CH 1/10W 47K	1	
		R1474	ERJ2GEJ102X	M.RESISTOR CH 1/10W 1K	1	
		R1501	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
		R1502	ERJ2GEJ104	M.RESISTOR CH 1/10W 100K	1	
		R1503	ERJ2GEJ104	M.RESISTOR CH 1/10W 100K	1	
		R1504	ERJ2GEJ104	M.RESISTOR CH 1/10W 100K	1	
		R1505	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
		R1506	ERJ2RHD433	M.RESISTOR CH 1/16W 43K	1	
		R1507	ERJ2GEJ472	M.RESISTOR CH 1/10W 4.7K	1	
		R1508	ERJ2GEJ100	M.RESISTOR CH 1/10W 10	1	
		R1509	D1BDR033A111	RESISTOR	1	
		R1510	D1BDR068A111	RESISTOR	1	
		R1511	ERJ2GEJ473	M.RESISTOR CH 1/10W 47K	1	
		R1512	ERJ2GEJ104	M.RESISTOR CH 1/10W 100K	1	
		R1513	ERJ2GEJ100	M.RESISTOR CH 1/10W 10	1	
		R1514	ERJ2GEJ7R5	M.RESISTOR CH 1/10W 7.5	1	
		R1515	ERJ2RKD224	M.RESISTOR CH 1/16W 220K	1	
		R1516	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	
		R1517	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
		R1518	ERJ2GEJ472	M.RESISTOR CH 1/10W 4.7K	1	
		R1519	ERJ2GEJ104	M.RESISTOR CH 1/10W 100K	1	
		R1520	ERJ2GEJ224	M.RESISTOR CH 1/10W 220K	1	
		R1521	ERJ2GEJ224	M.RESISTOR CH 1/10W 220K	1	
	⚠	R1601	DLJBR026A055	RESISTOR	1	
		R1602	ERJ2RHD302	M.RESISTOR CH 1/16W 3K	1	
		R1603	ERJ2RHD751	M.RESISTOR CH 1/16W 750	1	
		R1604	ERJ2RHD103	M.RESISTOR CH 1/16W 10K	1	
		R1606	ERJ2GEJ101	M.RESISTOR CH 1/10W 100	1	
		R2301	ERJ2GEJ102X	M.RESISTOR CH 1/10W 1K	1	
		R2302	ERJ2GEJ473	M.RESISTOR CH 1/10W 47K	1	
		R2303	ERJ2GEJ683	M.RESISTOR CH 1/10W 68K	1	
		R2304	ERJ2GEJ473	M.RESISTOR CH 1/10W 47K	1	

Model No. : HC-MDH2/MDH2M Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R2305	ERJ2GEJ104	M.RESISTOR CH 1/10W 100K	1	
		R2306	DOYAR0000007	M.RESISTOR CH 1/10W 0	1	
		R2307	ERJ2GEJ104	M.RESISTOR CH 1/10W 100K	1	
		R3402	ERJ2GEJ681	M.RESISTOR CH 1/10W 680	1	
		R3406	ERJ2GEJ122	M.RESISTOR CH 1/10W 1.2K	1	
		R3407	ERJ2GEJ560X	M.RESISTOR CH 1/10W 56	1	(MDH2M)
		R3408	DOYAR0000007	M.RESISTOR CH 1/10W 0	1	
		R3409	ERJ2GEJ681	M.RESISTOR CH 1/10W 680	1	
		R3410	ERJ2GEJ122	M.RESISTOR CH 1/10W 1.2K	1	
		R3411	ERJ2GEJ331	M.RESISTOR CH 1/10W 330	1	
		R3412	ERJ2GEJ331	M.RESISTOR CH 1/10W 330	1	
		R3415	ERJ2GEJ331	M.RESISTOR CH 1/10W 330	1	
		R3416	ERJ2GEJ472	M.RESISTOR CH 1/10W 4.7K	1	
		R3417	ERJ2GEJ472	M.RESISTOR CH 1/10W 4.7K	1	
		R3419	ERJ2GEJ105	M.RESISTOR CH 1/10W 1M	1	
		R3421	ERJ2GEJ221	M.RESISTOR CH 1/10W 220	1	
		R3422	ERJ2GEJ152	M.RESISTOR CH 1/10W 1.5K	1	
		R3423	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
		R3424	ERJ2RHD101	M.RESISTOR CH 1/16W 100	1	
		R3426	ERJ2RHD101	M.RESISTOR CH 1/16W 100	1	
		R3428	ERJ2RHD101	M.RESISTOR CH 1/16W 100	1	
		R3429	ERJ2GED273X	M.RESISTOR CH 1/10W 27K	1	
		R3430	ERJ2RHD431	M.RESISTOR CH 1/16W 430	1	
		R3431	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
		R3432	ERJ2RHD512	M.RESISTOR CH 1/16W 5.1K	1	
		R3433	ERJ2GEJ472	M.RESISTOR CH 1/10W 4.7K	1	
		R3434	ERJ2RHD243	M.RESISTOR CH 1/16W 24K	1	
		R3435	ERJ2RHD183	M.RESISTOR CH 1/16W 18K	1	
		R3436	ERJ2GEJ472	M.RESISTOR CH 1/10W 4.7K	1	
		R3437	ERJ2GEJ182	M.RESISTOR CH 1/10W 1.8K	1	
		R3438	ERJ2GEJ182	M.RESISTOR CH 1/10W 1.8K	1	
		R3442	ERJ2RKD330	M.RESISTOR CH 1/16W 33	1	
		R3443	ERJ2GEJ560X	M.RESISTOR CH 1/10W 56	1	
		R3444	ERJ2RHD123X	M.RESISTOR CH 1/16W 12K	1	
		R3445	ERJ2RKD330	M.RESISTOR CH 1/16W 33	1	(MDH2)
		R3446	ERJ2GEJ560X	M.RESISTOR CH 1/10W 56	1	(MDH2)
		R3447	ERJ2GEJ560X	M.RESISTOR CH 1/10W 56	1	
		R3448	ERJ2GEJ560X	M.RESISTOR CH 1/10W 56	1	
		R3449	ERJ2GEJ221	M.RESISTOR CH 1/10W 220	1	
		R3450	ERJ2GEJ221	M.RESISTOR CH 1/10W 220	1	
		R3452	ERJ2GEJ101	M.RESISTOR CH 1/10W 100	1	(MDH2M)
		R3453	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
		R3456	ERJ2GEJ102X	M.RESISTOR CH 1/10W 1K	1	
		R3461	ERJ2GEJ104	M.RESISTOR CH 1/10W 100K	1	
		R3463	ERJ2GEJ104	M.RESISTOR CH 1/10W 100K	1	
		R3476	ERJ2GEJ102X	M.RESISTOR CH 1/10W 1K	1	
		R3477	ERJ2GEJ183	M.RESISTOR CH 1/10W 18K	1	
		R3478	ERJ2GEJ101	M.RESISTOR CH 1/10W 100	1	
		R3479	ERJ2GEJ470	M.RESISTOR CH 1/10W 47	1	
		R3701	ERJ2GEJ102X	M.RESISTOR CH 1/10W 1K	1	
		R3901	ERJ2GEJ470	M.RESISTOR CH 1/10W 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 1/10W 330	1	
		R3906	ERJ2GEJ102X	M.RESISTOR CH 1/10W 1K	1	
		R3907	ERJ2GEJ102X	M.RESISTOR CH 1/10W 1K	1	
		R3909	ERJ2GEJ333	M.RESISTOR CH 1/10W 33K	1	
		R3910	DOGB150JA057	M.RESISTOR CH 1/10W 15	1	
		R3931	ERJ2GEJ470	M.RESISTOR CH 1/10W 47	1	(MDH2)
		R3932	ERJ2GEJ560X	M.RESISTOR CH 1/10W 56	1	(MDH2)
		R3933	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	(MDH2)

Model No. : HC-MDH2/MDH2M Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R3934	ERJ2GEJ271	M.RESISTOR CH 1/10W 270	1	(MDH2)
		R3935	ERJ2GEJ331	M.RESISTOR CH 1/10W 330	1	(MDH2)
		R3936	ERJ2GEJ102X	M.RESISTOR CH 1/10W 1K	1	(MDH2)
		R3937	ERJ2GEJ102X	M.RESISTOR CH 1/10W 1K	1	(MDH2)
		R3939	ERJ2GEJ333	M.RESISTOR CH 1/10W 33K	1	(MDH2)
		R3940	D0GB150JA057	M.RESISTOR CH 1/10W 15	1	(MDH2)
		R3951	ERJ2GEJ2R2X	M.RESISTOR CH 1/10W 2.2	1	
		R3952	ERJ6GEYJ102V	M.RESISTOR CH 1/10W 1K	1	
	⚠	R3954	DLJBR045A055	FUSING RESISTOR 0.045	1	
		R3956	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	(MDH2M)
		R4501	ERJ2GEJ102X	M.RESISTOR CH 1/10W 1K	1	
		R4503	ERJ2RKD750	M.RESISTOR CH 1/16W 75	1	
		R4504	ERJ2RKD750	M.RESISTOR CH 1/16W 75	1	
		R4505	ERJ2RKD750	M.RESISTOR CH 1/16W 75	1	
		R4506	ERJ2RKD750	M.RESISTOR CH 1/16W 75	1	
		R4599	ERJ2GEJ102X	M.RESISTOR CH 1/10W 1K	1	
		R4801	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
		R4802	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
		R4803	ERJ2GEJ183	M.RESISTOR CH 1/10W 18K	1	
		R4804	ERJ2GEJ183	M.RESISTOR CH 1/10W 18K	1	
		R4805	ERJ2GEJ683	M.RESISTOR CH 1/10W 68K	1	
		R4806	ERJ2GEJ683	M.RESISTOR CH 1/10W 68K	1	
		R4816	ERJ2GEJ472	M.RESISTOR CH 1/10W 4.7K	1	
		R4817	ERJ2GEJ223	M.RESISTOR CH 1/10W 22K	1	
		R4818	ERJ2GEJ333	M.RESISTOR CH 1/10W 33K	1	
		R4901	ERJ6GEYJ331V	M.RESISTOR CH 1/10W 330	1	
		R4902	ERJ2GEJ472	M.RESISTOR CH 1/10W 4.7K	1	
		R4904	ERJ6GEYJ562V	M.RESISTOR CH 1/10W 5.6K	1	
		R4905	ERJ2GEJ471	M.RESISTOR CH 1/10W 470	1	
		R4906	ERJ6GEYJ103V	M.RESISTOR CH 1/10W 10K	1	
		R4907	ERJ6GEYJ154V	M.RESISTOR CH 1/10W 150K	1	
		R4908	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
		R4909	ERJ2GEJ102X	M.RESISTOR CH 1/10W 1K	1	
		R4910	ERJ2GEJ562	M.RESISTOR CH 1/10W 5.6K	1	
		R4911	ERJ2GEJ821	M.RESISTOR CH 1/10W 820	1	
		R4912	ERJ2GEJ471	M.RESISTOR CH 1/10W 470	1	
		R4913	ERJ6GEYJ103V	M.RESISTOR CH 1/10W 10K	1	
		R4914	ERJ6GEYJ154V	M.RESISTOR CH 1/10W 150K	1	
		R4915	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
		R4916	ERJ2GEJ102X	M.RESISTOR CH 1/10W 1K	1	
		R4917	ERJ2GEJ562	M.RESISTOR CH 1/10W 5.6K	1	
		R4918	ERJ2GEJ821	M.RESISTOR CH 1/10W 820	1	
		R4920	ERJ6GEYJ562V	M.RESISTOR CH 1/10W 5.6K	1	
		R4922	ERJ2GEJ223	M.RESISTOR CH 1/10W 22K	1	
		R4923	ERJ2GEJ683	M.RESISTOR CH 1/10W 68K	1	
		R4924	ERJ2GEJ473	M.RESISTOR CH 1/10W 47K	1	
		R4925	ERJ2GEJ222	M.RESISTOR CH 1/10W 2.2K	1	
		R4926	DOYAR0000007	M.RESISTOR CH 1/10W 0	1	
		R6007	ERJ2GEJ470	M.RESISTOR CH 1/10W 47	1	
		R6025	DOYAR0000007	M.RESISTOR CH 1/10W 0	1	
		R6026	ERJ2GEJ151	M.RESISTOR CH 1/10W 150	1	
		R6027	ERJ2GEJ151	M.RESISTOR CH 1/10W 150	1	
		R6028	ERJ2GEJ151	M.RESISTOR CH 1/10W 150	1	
		R6029	DOYAR0000007	M.RESISTOR CH 1/10W 0	1	
		R6030	DOYAR0000007	M.RESISTOR CH 1/10W 0	1	
		R6951	ERJ2GEJ220	M.RESISTOR CH 1/10W 22	1	
		R6953	ERJ2GEJ220	M.RESISTOR CH 1/10W 22	1	
		R6954	ERJ2GEJ151	M.RESISTOR CH 1/10W 150	1	
		R6962	ERJ2GEJ102X	M.RESISTOR CH 1/10W 1K	1	
		R6963	ERJ2GEJ103	M.RESISTOR CH 1/10W 10K	1	
		R6965	DOYAR0000007	M.RESISTOR CH 1/10W 0	1	
		R6966	DOYAR0000007	M.RESISTOR CH 1/10W 0	1	

Model No. : HC-MDH2/MDH2M Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		RX901	EXB28V820JX	RESISTOR NETWORKS	1	
		RX902	EXB28V820JX	RESISTOR NETWORKS	1	
		RX903	EXB28V820JX	RESISTOR NETWORKS	1	
		RX904	EXB28V820JX	RESISTOR NETWORKS	1	
		RX3401	EXB28V560J	RESISTOR NETWORKS	1	
		RX3402	EXB28V560J	RESISTOR NETWORKS	1	(MDH2)
		RX3403	EXB28V472JX	RESISTOR NETWORKS	1	
		RX3404	EXB28V473JX	RESISTOR NETWORKS	1	
		RX3405	EXB28V473JX	RESISTOR NETWORKS	1	
		RX3406	EXB28V103JX	RESISTOR NETWORKS	1	
		RX3407	EXB28V473JX	RESISTOR NETWORKS	1	
		RX3408	EXB28V473JX	RESISTOR NETWORKS	1	
		RX3409	EXB28V473JX	RESISTOR NETWORKS	1	
		RX3410	EXB28V103JX	RESISTOR NETWORKS	1	
		RX3411	EXB28V560J	RESISTOR NETWORKS	1	(MDH2M)
		RX3412	EXB28V473JX	RESISTOR NETWORKS	1	
		RX3414	EXB28V472JX	RESISTOR NETWORKS	1	
		RX3415	EXB28V472JX	RESISTOR NETWORKS	1	
		RX3901	EXB28V560J	RESISTOR NETWORKS	1	
		RX3902	EXB28V103JX	RESISTOR NETWORKS	1	
		RX3931	EXB28V560J	RESISTOR NETWORKS	1	(MDH2)
		RX3932	EXB28V103JX	RESISTOR NETWORKS	1	(MDH2)
		RX3951	EXB28V473JX	RESISTOR NETWORKS	1	(MDH2M)
		RX6001	EXB28V560J	RESISTOR NETWORKS	1	
		RX6002	EXB28V560J	RESISTOR NETWORKS	1	
		RX6951	EXB28V103JX	RESISTOR NETWORKS	1	
		RX6952	EXB28V103JX	RESISTOR NETWORKS	1	
		RX6957	EXB28V103JX	RESISTOR NETWORKS	1	
		S851	ESE13V01B	SWITCH	1	
		S6401	ESE22MV21T	SWITCH	1	
		S6402	K0F111A00471	SWITCH	1	
		S6601	K0F111A00589	SWITCH	1	
		S6681	K0F111A00475	SWITCH	1	
		S6682	K0F111A00475	SWITCH	1	
		S6683	K0F111A00475	SWITCH	1	
		S6691	D2B1B15Y0001	SWITCH	1	
		S6692	K0F111A00471	SWITCH	1	
		S6951	K0F111A00589	SWITCH	1	
		S6953	K0D113B00027	SWITCH	1	
		S6954	K0F111A00589	SWITCH	1	
		S6955	K0F111A00589	SWITCH	1	
		S6956	VSS0300	SWITCH	1	
		S6957	K0F111A00589	SWITCH	1	
		S6958	K0F111A00589	SWITCH	1	
		S6959	K0F111A00589	SWITCH	1	
		S6960	K0F111A00589	SWITCH	1	
		VA501	D4ED18R00008	VARISTOR	1	
		VA502	D4ED18R00008	VARISTOR	1	
		VA503	D4ED18R00008	VARISTOR	1	
		VA504	D4ED18R00008	VARISTOR	1	
		VA851	D4ED18R00008	VARISTOR	1	
		VA3952	D4ED18R00008	VARISTOR	1	
		VA4501	D4EDY1310001	VARISTOR	1	
		VA4502	D4EDY1310001	VARISTOR	1	
		VA4503	D4EDY1310001	VARISTOR	1	
		VA4504	D4EDY1310001	VARISTOR	1	
		VA4505	D4EDY1310001	VARISTOR	1	
		VA4506	D4EDY1310001	VARISTOR	1	
		VA4507	D4EDY1310001	VARISTOR	1	
		VA4508	D4EDY1310001	VARISTOR	1	
		VA4901	D4ED18R00008	VARISTOR	1	
		VA4902	D4EDY1310001	VARISTOR	1	

Model No. : HC-MDH2/MDH2M Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		VA4903	D4EDY1310001	VARISTOR	1	
		VA6601	D4EDY1310001	VARISTOR	1	
		VA6701	D4EDY1310001	VARISTOR	1	
		VA6702	D4EDY1310001	VARISTOR	1	
		VA6959	D4EDY1310001	VARISTOR	1	
		X2301	H0J327200085	CRYSTAL OSCILLATOR	1	
		X3402	H1A5405B0027	CRYSTAL OSCILLATOR	1	
		ZB4901	K3ZZ00500014	BATTERY HOLDER	1	

Model No. : HC-MDH2/MDH2M Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		1	VYK6P40	LENS HOOD UNIT	1	
		2	VKM0C93	LENS MASK	1	
		3	VMP0H14	SHOLDER BELT ANGLE FRAME	1	
		4	VYK6P28	HANDLE T UNIT	1	
		4-1	VMP8492	SHOE ANGLE	1	
		4-2	VMP8492	SHOE ANGLE	1	
		5	VEP26365A	LCD INT P.C.B.	1	(RTL) E.S.D.
		6	VWJ2439	HANDLE FFC	1	
		7	VWK0206	HANDLE WIRE UNIT	1	
		8	VMS8410	BALANCER	1	
		9	VEP06G93A	RING LED L P.C.B.	1	(RTL) E.S.D.
		10	VWJ2449	FFC	1	
		11	VWJ2218	SS GYRO FFC	1	
		12	VWJ2430	LENS INT FFC	1	
		13	VEE1P66	DC BATT CATCHER WIRE UNIT	1	
		14	VEP01A85A	BATT CATCHER P.C.B.	1	(RTL) E.S.D.
		15	VWJ2306	SD FFC	1	
		16	VWJ2302	USB AV FFC	1	
		17	VWJ2289	ZOOM PHOTO FFC	1	
		18	VWJ2441	AV JACK FFC	1	
		19	VEP03K04A	AV JACK P.C.B.	1	(RTL) E.S.D.
		20	VYK6S54	SIDE CASE-L UNIT	1	(MDH2M)
		20	VYK6S55	SIDE CASE-L UNIT	1	(MDH2)
		20-1	VKA0397	SET LEG CUSHION	1	
		20-2	VJF0804	LENS CABLE CLAMPER	1	
		21	VGK4164	CASE-L ORNAMENT	1	(MDH2)
		21	VGK4191	CASE-L ORNAMENT	1	(MDH2M)
		22	VYK6P35	EVF CASE UNIT	1	
		23	VYK5281	LCD PANEL UNIT	1	
		24	VYK6P11	MF UNIT	1	
		24-1	VEE1P67	MF SENS WIRE UNIT	1	
		25	VXD0673	LCD HINGE UNIT	1	
		26	VKM0J22	LCD CASE-T	1	(MDH2)
		26	VKM0J42	LCD CASE-T	1	(MDH2M)
		27	VMP0H25	LCD FRAME A	1	
		28	VEP26366A	MONITOR P.C.B.	1	(RTL) E.S.D.
		29	VGL1449	REFLECTION SHEET	1	
		30	VKW3518	LIGHT GUIDE PLATE	1	
		31	VGL1384	DIFFUSION SHEET	1	
		32	VGL1460	PRISM SHEET B	1	
		33	VGL1448	PRISM SHEET A	1	
		34	VGQ1H71	LCD HOLDER	1	
		35	VGQ1B39	TP SPACER	1	
		36	VMP0H26	LCD FRAME B	1	
		37	VKM0J21	LCD CASE B	1	
		39	VMP0H24	LCD HINGE ANGLE	1	
		40	VYK6P37	SLIDE CASE-R UNIT	1	
		40-1	VKA0397	SET LEG CUSHION	1	
		40-2	VKA0397	SET LEG CUSHION	1	
		40-3	VMB4779	LCD LOCK SPRING	1	
		40-4	VGQ1R57	LCD LOCK PIECE	1	
		40-5	VGQ1R64	LCD LOCK HOLDER	1	
		42	VYK6P34	SLIDE CASE-L UNIT	1	
		42-1	VKA0397	SET LEG CUSHION	1	
		42-2	VKA0397	SET LEG CUSHION	1	
		45	VGQ1R11	EVF HINGE COVER	1	
		46	VYK6P32	MIC CASE UNIT	1	
		47	VGQ1R06	MIC SHOE ATTACH	1	
		48	VYK6P30	SLIDE BASE UNIT	1	
		49	VGQ1R07	MIC CUSHION A	1	
		50	VGQ1R08	MIC CUSHION B	1	
		51	VGQ1R09	MIC CUSHION C	1	

Model No. : HC-MDH2/MDH2M Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		52	LOCBAY000164	MICROPHONE UNIT	1	
		53	VEP04999A	HANDLE P.C.B.	1	(RTL) E.S.D.
		54	VWJ2431	LCD FFC	1	
		55	VYK6P22	TRIPOD FRAME UNIT	1	
		56	VEP06G89A	SIDE-R OP P.C.B.	1	(RTL) E.S.D.
		57	VWJ2440	SIDE-R OP FFC	1	
		58	VGU9872	SLIDE BUTTON	1	
		59	VGU9872	SLIDE BUTTON	1	
		60	VKM0J11	CAMERA OP CASE	1	
		61	VMP0H27	OP EARTH PLATE	1	
		62	VYK6P19	SIDE CASE-R UNIT	1	
		62-1	VKA0397	SET LEG CUSHION	1	
		63	VEP06G92A	RING LED R P.C.B.	1	(RTL) E.S.D.
		64	LOAA01A00040	SPEAKER	1	
		65	VEP20E29A	CAM FUNC P.C.B.	1	(RTL) E.S.D.
		66	VEE1P65	CAM FUNC WIRE UNIT	1	
		68	VYK6S56	HANDLE ZOOM P.C.B.	1	(RTL) E.S.D.
		68-1	VGQ1S50	SUB ZOOM CUSHION	1	
		68-2	VGQ1S50	SUB ZOOM CUSHION	1	
		69	VWJ2449	FFC	1	
		70	VYK6P26	POWER SS UNIT	1	
		72	VGL1404	POWER PANELIGHT	1	
		73	VEP06G87A	SS GYRO P.C.B.	1	(RTL) E.S.D.
		74	VWJ2449	FFC	1	
		75	VGU0R30	PHOTO SHOT BUTTON	1	
		76	VEP06G90A	ZOOM PHOTO P.C.B.	1	(RTL) E.S.D.
		77	VMT2107	ZOOM LEVER CUSSION (B)	1	
		78	VMT2106	ZOOM LEVER CUSSION (A)	1	
		79	VYQ5881	ZOOM SW UNIT	1	
		80	VGU9215	ZOOM LEVER	1	
		81	VGQ1S47	ZOOM SW HOLD FRAME	1	
		82	VKM0J12	GRIP CASE	1	
		83	VGL1473	TALLY PANELIGHT	1	
		84	VKM0J25	SLIDE CASE FRAME	1	
		85	VWJ2260	RELAY FFC	1	(MDH2M)
		86	VEP03J60P	ESD P.C.B. UNIT	1	E.S.D. (MDH2M)
		87	VMP0H12	MAIN FRAME	1	
		88	VEP03K02A	MAIN P.C.B.	1	(RTL) E.S.D. (MDH2)
		88	VEP03K02B	MAIN P.C.B.	1	(RTL) E.S.D. (MDH2M)
		89	VEP03J95A	HDMI FPC UNIT	1	(RTL) E.S.D.
		90	VYK6P09	LENS FRAME-L UNIT	1	
		91	VYK6P10	LENS FRAME-R UNIT	1	
		92	VEP27230A	LENS INT P.C.B.	1	(RTL) E.S.D.
		93	VMP0H17	EARTH PLATE S	1	
		94	VKM0J06	FRONT CASE	1	
		95	VML4051	BATTERY LOCK LEVER	1	
		96	VMB4781	BATTERY LOCK SPRING	1	
		97	VMP0H50	BATTERY LOCK PLATE	1	
		98	VMP0H20	BATTERY EARTH PLATE	1	
		99	VMP8450	SHOULDER BELT PLATE FRAME	1	
		100	VKM0J08	REAR CASE	1	
		101	VEP03K03A	SD HOLDER P.C.B.	1	(RTL) E.S.D. (MDH2)
		101	VEP03K03B	SD HOLDER P.C.B.	1	(RTL) E.S.D. (MDH2M)
		102	VMP0J03	SD FRAME	1	
		103	VMP8492	SHOE ANGLE	1	
		104	VWJ2449	FFC	1	
		105	VGU0R31	CAMERA OP BUTTON	1	
		106	VMP9589	SP ANGLE	1	
		107	VYC1127	GRIP BELT	1	
		108	VML4052	LCD SW LEVER	1	
		109	VMB4761	LCD SW SPRING	1	
		201	VYK6S61	LENS UNIT	1	

Model No. : HC-MDH2/MDH2M Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		201-1	L6HAYYB0007	2ND STEPPING MOTOR	1	
		201-2	L6HAYYB0004	4TH STEPPING MOTOR	1	
		202	VXQ2424	MOS UNIT	1	
		203	VDL2467	IR FILTER	1	
		204	VMX3991	MOS CUSHION	1	
		B1	XQN2+BJ6FJK	SCREW	1	
		B2	XQN2+BJ6FJK	SCREW	1	
		B3	XQN2+BJ6FJK	SCREW	1	
		B4	XQN2+BJ12FJK	SCREW	1	
		B5	XQN2+BJ10FJK	SCREW	1	
		B6	XQN2+BJ10FJK	SCREW	1	
		B7	XQN2+BJ10FJK	SCREW	1	
		B8	XQN2+BJ10FJK	SCREW	1	
		B9	XQN2+BJ10FJK	SCREW	1	
		B10	XQN2+BJ10FJK	SCREW	1	
		B11	XQS2+AJ5FN	SCREW	1	
		B12	XQS2+AJ5FN	SCREW	1	
		B13	XQN2+BJ6FJK	SCREW	1	
		B14	XQN2+BJ6FJK	SCREW	1	
		B15	XQN2+BJ6FJK	SCREW	1	
		B16	XQN2+BJ6FJK	SCREW	1	
		B17	XQN2+BJ6FJK	SCREW	1	
		B18	XQN2+BJ6FJK	SCREW	1	
		B19	XQN2+BJ6FJK	SCREW	1	
		B20	XQN2+BJ10FJK	SCREW	1	
		B21	XQN2+BJ10FJK	SCREW	1	
		B22	XQN2+BJ10FJK	SCREW	1	
		B23	XQN2+BJ10FJK	SCREW	1	
		B24	XQN2+BJ10FJK	SCREW	1	
		B25	XQN2+BJ6FJK	SCREW	1	
		B26	XQN2+BJ6FJK	SCREW	1	
		B27	XQN2+BJ6FJK	SCREW	1	
		B28	XQN2+BJ10FJK	SCREW	1	
		B29	XQN2+BJ6FJK	SCREW	1	
		B30	XQN2+BJ6FJK	SCREW	1	
		B31	XQN2+BJ6FJK	SCREW	1	
		B32	XQN2+BJ6FJK	SCREW	1	
		B33	XQN2+BJ6FJK	SCREW	1	
		B34	XQN2+BJ6FJK	SCREW	1	
		B35	XQN2+B5FJK	SCREW	1	
		B36	XQN2+B5FJK	SCREW	1	
		B37	XQN2+B5FJK	SCREW	1	
		B38	XQN2+B5FJK	SCREW	1	
		B39	XQN2+B5FJK	SCREW	1	
		B40	XQN2+B5FJK	SCREW	1	
		B41	XQN2+BJ6FJK	SCREW	1	
		B42	XQN2+BJ6FJK	SCREW	1	
		B43	XQN2+BJ10FJK	SCREW	1	
		B44	XQN2+BJ10FJK	SCREW	1	
		B45	XQN2+BJ10FJK	SCREW	1	
		B46	XQN2+BJ10FJK	SCREW	1	
		B47	XQN2+BJ10FJK	SCREW	1	
		B48	XQN2+BJ10FJK	SCREW	1	
		B49	XQN2+BJ6FJK	SCREW	1	
		B50	XQN2+BJ6FJK	SCREW	1	
		B51	XQN2+BJ10FJK	SCREW	1	
		B52	XQN2+BJ10FJK	SCREW	1	
		B53	XQN2+BJ10FJK	SCREW	1	
		B54	XQN2+BJ6FJK	SCREW	1	
		B55	XQN2+BJ6FJK	SCREW	1	
		B56	XQN2+BJ6FJK	SCREW	1	
		B57	XQN2+BJ6FJK	SCREW	1	

Model No. : HC-MDH2/MDH2M Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		B58	XQN2+BJ6FJK	SCREW	1	
		B59	XQN2+BJ6FJK	SCREW	1	
		B60	XQN2+B5FJK	SCREW	1	
		B61	XQN2+B5FJK	SCREW	1	
		B62	XQN2+BJ6FJK	SCREW	1	
		B63	XQN2+BJ6FJK	SCREW	1	
		B64	XQN2+BJ6FJK	SCREW	1	
		B65	VHD1907	SCREW	1	
		B66	XQN2+BJ10FJK	SCREW	1	
		B67	XQN2+BJ6FJK	SCREW	1	
		B68	XQN2+BJ6FJK	SCREW	1	
		B69	VHD1907	SCREW	1	
		B70	XQN2+BJ6FJK	SCREW	1	
		B71	XQN2+BJ6FJK	SCREW	1	
		B72	XQN2+BJ6FJK	SCREW	1	
		B73	XQN2+BJ6FJK	SCREW	1	
		B74	XQN2+BJ6FJK	SCREW	1	
		B75	XQN2+BJ6FJK	SCREW	1	
		B76	XQN2+BJ6FJK	SCREW	1	
		B77	XQN2+BJ6FJK	SCREW	1	
		B78	XQN2+BJ6FJK	SCREW	1	
		B79	XQN2+BJ6FJK	SCREW	1	
		B80	XQN2+BJ6FJK	SCREW	1	
		B81	XQN2+BJ6FJK	SCREW	1	
		B82	XQN2+BJ6FJK	SCREW	1	
		B83	XQN2+BJ6FJK	SCREW	1	
		B84	VHD1688	SCREW	1	
		B85	VHD1688	SCREW	1	
		B86	XQN14+BJ4FN	SCREW	1	
		B87	VHD1448	SCREW	1	
		B88	VHD1448	SCREW	1	
		B89	XQN2+BJ6FJK	SCREW	1	
		B90	XQN2+BJ6FJK	SCREW	1	
		B91	XQS2+AJ5FN	SCREW	1	
		B92	XQS2+AJ5FN	SCREW	1	
		B93	XQS2+AJ5FN	SCREW	1	
		B94	XQN2+BJ6FJK	SCREW	1	
		B95	XQN2+BJ6FJK	SCREW	1	
		B96	XQN2+B3FN	SCREW	1	
		B97	XQN2+B3FN	SCREW	1	
		B98	XQN16+BJ5FN	SCREW	1	
		B99	XQN16+BJ5FN	SCREW	1	
		B100	XQN16+BJ5FN	SCREW	1	
		B101	XQN16+BJ5FN	SCREW	1	
		B102	XQN16+BJ5FN	SCREW	1	
		B103	XQN2+B5FJK	SCREW	1	
		B104	XQN2+B5FJK	SCREW	1	
		B105	XQN2+B5FJK	SCREW	1	
		B106	XQN2+BJ6FJK	SCREW	1	
		B107	XQN2+BJ6FJK	SCREW	1	
		B108	XQN2+BJ6FJK	SCREW	1	
		B109	XQN2+BJ6FJK	SCREW	1	
		B110	XQN2+BJ6FJK	SCREW	1	
		B111	XQN2+BJ6FJK	SCREW	1	
		B112	XQN2+BJ6FJK	SCREW	1	
		B113	XQN2+BJ6FJK	SCREW	1	
		B114	XQN2+BJ6FJK	SCREW	1	
		B115	XQN2+BJ6FJK	SCREW	1	
		B116	XQN2+BJ6FJK	SCREW	1	
		B117	XQN16+BJ4FN	SCREW	1	
		B118	XQN16+BJ4FN	SCREW	1	
		B119	XQN2+BJ5FJK	SCREW	1	

Model No. : HC-MDH2/MDH2M Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		B120	XQN2+BJ5FJK	SCREW	1	
		B121	XQN2+BJ5FJK	SCREW	1	
		B122	XQN2+BJ5FJK	SCREW	1	
		B123	XQN16+BJ4FJK	SCREW	1	
		B124	XQN16+BJ4FJK	SCREW	1	
		B125	VHD1907	SCREW	1	(MDH2M)
		B126	VHD1907	SCREW	1	(MDH2M)
		B127	VHD1907	SCREW	1	
		B128	VHD1907	SCREW	1	
		B129	VHD1907	SCREW	1	
		B130	XQN2+BJ5FJK	SCREW	1	
		B131	XQN2+BJ5FJK	SCREW	1	
		B132	XQN2+BJ6FJK	SCREW	1	
		B133	XQN2+BJ6FJK	SCREW	1	
		B134	XQN2+BJ6FJK	SCREW	1	
		B135	XQN16+BJ4FJK	SCREW	1	
		B136	XQN16+BJ4FJK	SCREW	1	
		B137	VHD1907	SCREW	1	
		B138	VHD1907	SCREW	1	
		B139	XQS2+AJ5FN	SCREW	1	
		B140	XQS2+AJ5FN	SCREW	1	
		B141	XQS2+AJ5FN	SCREW	1	
		B142	XQS2+AJ5FN	SCREW	1	
		B143	XQN2+BJ6FJK	SCREW	1	
		B144	XQN2+BJ6FJK	SCREW	1	
		B145	XQN2+BJ6FJK	SCREW	1	
		B146	XQN2+BJ6FJK	SCREW	1	
		B147	XQN2+BJ6FJK	SCREW	1	
		B148	XQN2+BJ6FJK	SCREW	1	
		B149	XQN2+BJ5FJK	SCREW	1	
		B150	XQN2+BJ5FJK	SCREW	1	
		B151	XQN2+B5FJK	SCREW	1	
		B201	VHD2072	SCREW	1	
		B202	VHD2072	SCREW	1	
		B203	VHD2072	SCREW	1	
		B204	VHD2072	SCREW	1	
		B205	VHD2072	SCREW	1	
		B206	VHD2072	SCREW	1	
		301	VPK5717	ACCESSRI BOX	1	
		302	VPN7699	PARTITION	1	
	⚠	303	VSK0733A	AC ADAPTOR	1	GC
	⚠	303	VSK0734A-1	AC ADAPTOR	1	GK
		304	K2KA6CA00001	AV CABLE	1	
		305	K2KYYY00201	USB CABLE	1	
	⚠	306	K2CQ2YY00117	AC CORD W/PLUG	1	GC
	⚠	306	K2CA2YY00130	AC CORD W/PLUG	1	GK
	⚠	307	K2CT2YY00095	AC CORD W/PLUG	1	GC
		308	VYC1080	EVF EYE CUP UNIT	1	
		309	VYK5Y52	LENS CAP UNIT	1	
		310	VW-VMS10A	STEREO MICROHONE	1	
		311	VPF1294	BAG, POLYETHYLENE	1	
	⚠	312	VQT5E08	OPERATING INSTRUCTIONS(ENGLISH/HIND I)	1	MDH2GC, MDH2MGC
	⚠	312	VQT5E09	OPERATING INSTRUCTIONS(THAI/ARABIC/PERSIAN (SIMPLIFIED) /CHINESE (SIMPLIFIED))	1	MDH2GC
	⚠	312	VQT5E15	OPERATING INSTRUCTIONS(CHINESE (TRADITIONAL))	1	MDH2GK
	⚠	313	--	BATTERY PACK	1	GC
	⚠	313	--	BATTERY PACK	1	GK
	⚠	314	VFF1251	CD-ROM(O/I)	1	GC
	⚠	314	VFF1252	CD-ROM(O/I)	1	GK

Model No. : HC-MDH2/MDH2M Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		315	VPG3S07	PACKING CASE	1	MDH2GC
		315	VYQ8824	PACKING CASE UNIT	1	MDH2GK
		315	VPG3S09	PACKING CASE	1	MDH2MGC
		316	VPN7700	PAD	1	
		317	VPN7701	PAD	1	
		318	VPN7685	CUSHION (TOP)	1	
		319	VPN7686	CUSHION (BOTTOM)	1	
		320	VFF1543	PROTECT BAG	1	