

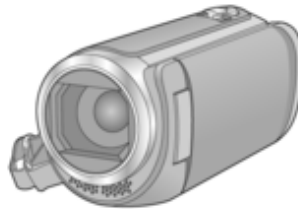
Panasonic®**ORDER NO.VM1702001CE**

Service Manual

High Definition Video Camera

Model No. **HC-V385GC**
HC-V385GW
HC-V385GN
HC-V385GK

Colour
(K).....Black Type



WARNING

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

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1 Safety Precautions

1.1 General Guidelines

1. IMPORTANT SAFETY NOTICE

- There are special components used in this equipment which are important for safety. These parts are marked by  in the Schematic Diagrams, Circuit Board Layout, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent X-RADIATION, shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.
2. An Isolation Transformer should always be used during the servicing of AC Adaptor whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks. It will also protect AC Adaptor from being damaged by accidental shorting that may occur during servicing.
 3. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
 4. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
 5. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.2 Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1 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)

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

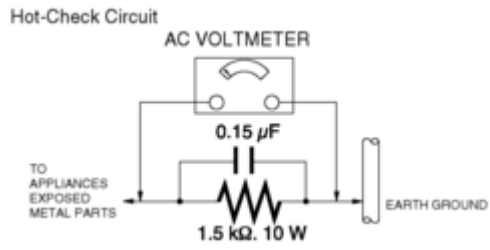


Figure. 1

2 Warning

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

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

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an antistatic solder removal device. Some solder removal devices not classified as "antistatic (ESD protected)" can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

CAUTION :

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

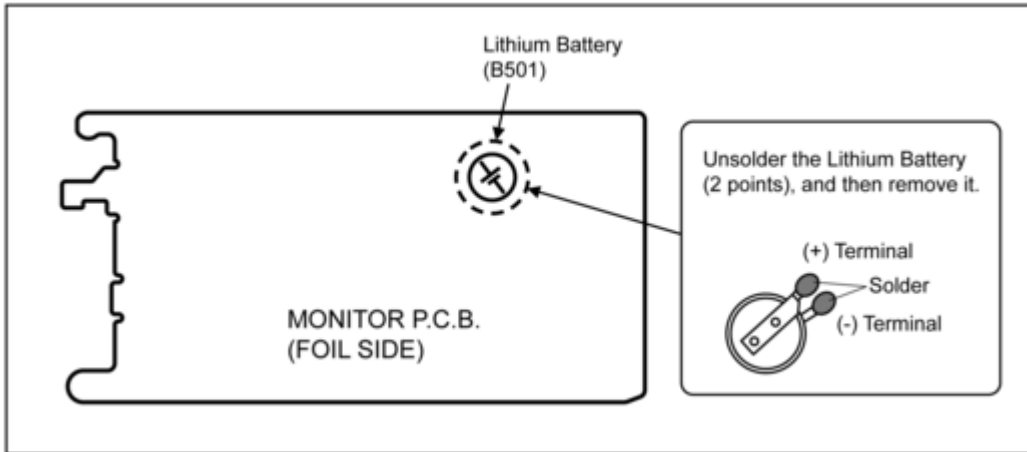
2.2 How to Replace the Lithium Battery

2.2.1 Replacement Procedure

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

NOTE:

The Lithium battery includes electric lead terminals.

**NOTE:**

This Lithium battery is a critical component.

It must never be subjected to excessive heat or discharge.

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

Replacement batteries must be of same type and manufacture.

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

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

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

(For English)

CAUTION

Danger of explosion if battery is incorrectly replaced.

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

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

(For German)

ACHTUNG

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

Behandeln Sie gebrauchte Batterien nach den Anweisungen des Herstellers.

(For French)

MISE EN GARDE

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

NOTE:

Above caution is applicable for a battery pack which is for HC-V385 series, as well.

3 Service Navigation

3.1 Introduction

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

3.2 General Description About Lead Free Solder (PbF)

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

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

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

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

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

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

Recommended Lead Free Solder (Service Parts Route.)

- The following 3 types of lead free solder are available through the service parts route.
SVKZ000001----- (0.3mm 100g Reel)
SVKZ000002----- (0.6mm 100g Reel)
SVKZ000003----- (1.0mm 100g Reel)

Note

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

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

There are three kinds of HC-V385.

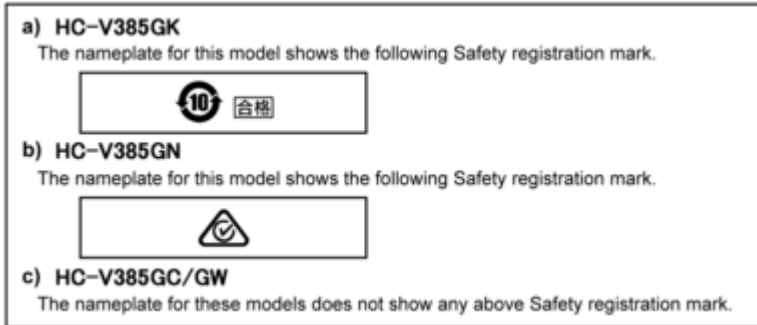
- a) HC-V385GK

- b) HC-V385GN
- c) HC-V385GC/GW

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

3.3.1 Defining methods:

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



NOTE:

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

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

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

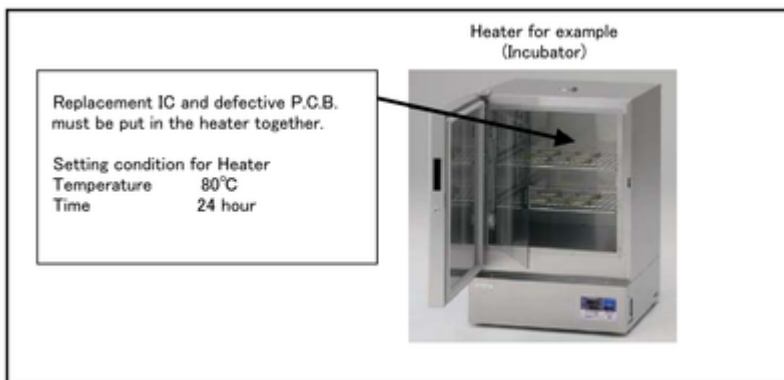
might sometimes occur by rapid heating.

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

Please refer the way of baking as follows.

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

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



4 Specifications

The following specification is for HC-W585/W585M/V385.

Some specifications may differ depending on model suffix.

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 5.0 V (When using AC adaptor)
DC 3.6 V (When using battery)

Power consumption:

Recording: 5.4 W
Charging: 7.7 W

Motion picture recording format:

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

Motion picture compression:

MPEG-4 AVC/H.264

Audio compression:

[AVCHD]:
Dolby® Audio/2 ch
[MP4/iFrame]:
AAC/2 ch

Recording mode and transfer rate:

[AVCHD]

[1080/50p]:
Maximum 28 Mbps (VBR)
[PH]:
Maximum 24 Mbps (VBR)
[HA]:
Average 17 Mbps (VBR)
[HG]:
Average 13 Mbps (VBR)
[HE]:
Average 5 Mbps (VBR)

[MP4/iFrame]

[1080/50M]:
Maximum 50 Mbps (VBR)
[1080/28M]:
Maximum 28 Mbps (VBR)
[720]:
Average 9 Mbps (VBR)
[iFrame]:
Maximum 28 Mbps (VBR)

- Refer to the operating instructions (PDF format) for the picture size and recordable time of a motion picture.

Still picture recording format:

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

- Refer to the operating instructions (PDF format) for picture size of a still picture and number of recordable pictures.

Recording media:

SD Memory Card
SDHC Memory Card
SDXC Memory Card

- Refer to the operating instructions (PDF format) for details on SD cards usable in this unit.

Built-in memory (**W585M**); 32 GB

Image sensor:

1/5.8 type (1/5.8") 1MOS image sensor
 Total; 2510 K
 Effective pixels;
 Motion picture; 2200 K (16:9)*
 Still picture;
 2200 K (16:9), 1700 K (4:3), 1670 K (3:2)

Lens:

Auto Iris, 50× optical zoom, F1.8 to F4.2
 Focal length;
 2.06 mm to 103 mm
 Macro (Full range AF)
 35 mm equivalent;
 Motion picture;
 28.0 mm to 1740 mm (16:9)*
 Still picture;
 28.0 mm to 1740 mm (16:9),
 34.0 mm to 1766 mm (4:3),
 33.6 mm to 1714 mm (3:2)
 Minimum focus distance;
 Normal; Approx. 2.0 cm (Wide)/
 Approx. 2.2 m (Tele)
 Tele Macro; Approx. 1.1 m (Tele)
 Intelligent Auto Macro;
 Approx. 1.0 cm (Wide)/Approx. 1.1 m
 (Tele)

Zoom:

i.Zoom OFF 62×*, 90× i.Zoom, 150×/
 3000× digital zoom
 (Using image sensor effective area)

* When [O.I.S.] is set to [Standard] and Level
 Shot Function is set to off.

Image stabilizer function:

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

Level Shot Function:

Off/Normal/Strong

Creative Control:

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

HDR movie ([W585] / [W585M]):

Low/High

Monitor:

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

Microphone:

Stereo (with a Zoom Microphone)

Minimum required illumination:

Approx. 4 lx (1/25 with Low Light Mode in the
 Scene Mode)
 Approx. 1 lx with the Night Mode function

AV connector video output level:

1.0 Vp-p, 75 Ω, PAL system

HDMI mini connector video output level:

HDMI™ (x.v.Colour™) 1080p/1080i/576p

AV connector audio output level (Line):

251 mV, 600 Ω, 2 ch

HDMI mini connector audio output level:

[AVCHD];
 Dolby Audio/Linear PCM
 [iFrame], [MP4];
 Linear PCM

USB:

Reader function
 SD card; Read only (No copyright
 protection support)
 Built-in memory ([W585M]); Read only
 Hi-Speed USB (USB 2.0), USB terminal
 Type micro AB
 USB host function (for USB HDD)
 Battery charging function (Charges from
 USB terminal when the main unit is off)

Dimensions:

60 mm (W)×62 mm (H)×129 mm (D)
 (including projecting parts)

Mass:

[W585]
 Approx. 264 g
 [without battery (supplied) and an SD card
 (optional)]
 [W585M]
 Approx. 266 g
 [without battery (supplied)]
 [V385]
 Approx. 252 g
 [without battery (supplied) and an SD card
 (optional)]

Mass in operation:**(W585)**

Approx. 309 g
[with battery (supplied) and an SD card
(optional)]

(W585M)

Approx. 309 g
[with battery (supplied)]

(V385)

Approx. 295 g
[with battery (supplied) and an SD card
(optional)]

Operating temperature:

0 °C to 40 °C

Operating humidity:

10%RH to 80%RH

Battery operation time:

See page 11

Wireless transmitter:

Compliance standard; IEEE802.11b/g/n

Frequency range used;

Central frequency 2412 MHz to 2462 MHz

[11ch]

Encryption method; Wi-Fi compliant WPA™/

WPA2™/WEP

Access method; Infrastructure mode

Sub Camera ((W585) / (W585M))**Image sensor:**

1/5 type (1/5") 1MOS image sensor

Total; 2000 K

Lens:

35 mm equivalent (Motion picture);

30.6 mm

AC adaptor

Information for your safety

Power source:

AC ~ 110 V to 240 V, 50/60 Hz

AC input:

0.25 A

DC output:

DC = 5.0 V, 1.8 A

Dimensions:

(VSK0815N)

66.4 mm (W)×72 mm (H)×46.3 mm (D)

(VSK0815K)

66.4 mm (W)×78.8 mm (H)×31 mm (D)

(VSK0815Q)

66.4 mm (W)×60.7 mm (H)×31 mm (D)

(VSK0815M)

66.4 mm (W)×66.8 mm (H)×31 mm (D)

Mass:

(VSK0815N)

Approx. 70 g

(VSK0815K)

Approx. 65 g

(VSK0815Q)

Approx. 64 g

(VSK0815M)

Approx. 62 g

The symbols on this product (including the
accessories) represent the following:

~ AC

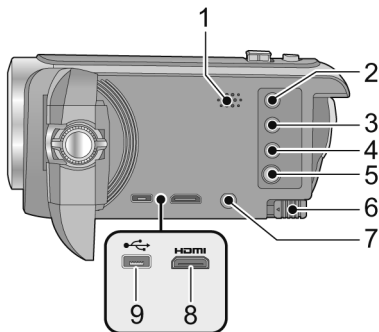
= DC

Class II equipment (The construction of
the product is double-insulated.)

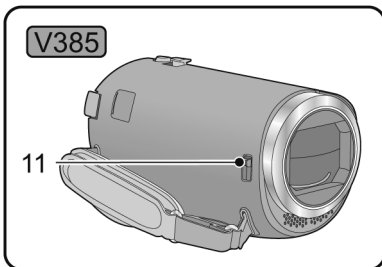
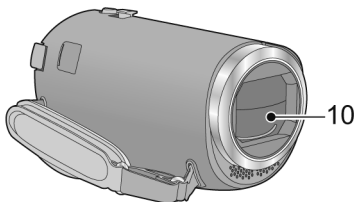
ON



Standby (OFF)



- 1 **Speaker**
- 2 **Recording/playback button** [/]
(→ 18)
- 3 **[W585] / [W585M]**
HDR button [**HDR**] (→ 45)
- [V385]**
Level Shot Function button []
(→ 44)
- 4 **Wi-Fi button** [**Wi-Fi**]
(→ 140, 146, 149, 155, 157, 161, 176, 179, 189, 193)
- 5 **Power button** [/] (→ 17)
- 6 **Battery release lever** [**BATT**] (→ 10)
- 7 **A/V connector** [**A/V**] (→ 116, 134)
- 8 **HDMI mini connector** [**HDMI**] (→ 116)
- 9 **USB terminal** [] (→ 124, 132, 215)



10 **Lens cover**

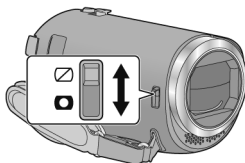
- **[W585] / [W585M]**
The lens cover opens in Motion Picture Recording Mode or Still Picture Recording Mode. (→ 18)

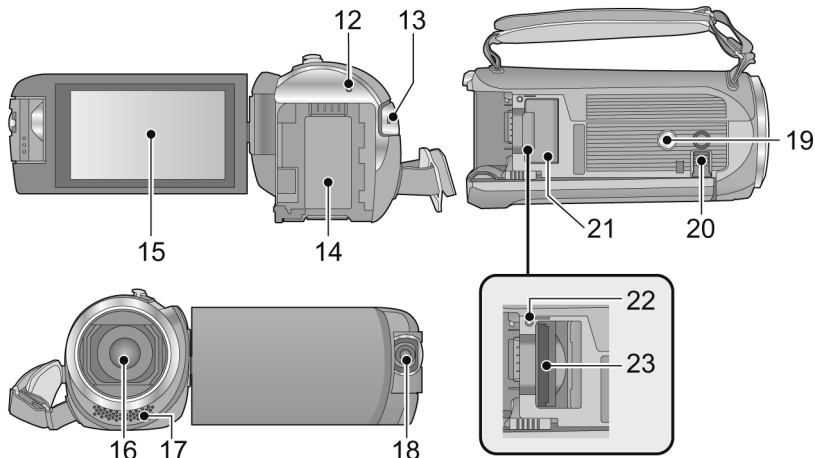
11 **[V385]**

Lens cover opening/closing switch

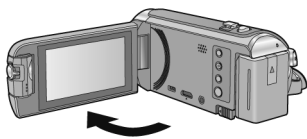
When not using the unit, close the lens cover to protect the lens.

- Slide the opening/closing switch to open/close the cover.

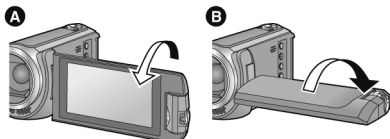




- 12 **Status indicator** (→ 17, 168)
- 13 **Recording start/stop button** (→ 23)
- 14 **Battery holder** (→ 10)
- 15 **LCD monitor (Touch screen)** (→ 19)



- It can open up to 90°.



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

- 16 **Lens**
- 17 **Internal stereo microphones**

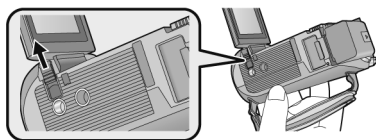
- 18 **W585 / W585M**
Sub camera (→ 46)

19 **Tripod receptacle**

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

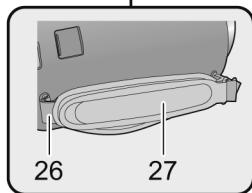
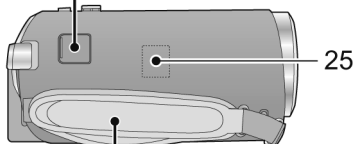
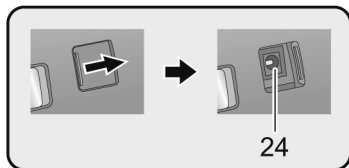
20 **Sliding stand**

When using this unit on a desk or any flat surface, pull out the sliding stand as illustrated below to keep this unit stable.



- Before closing the LCD monitor, retract the sliding stand.

- 21 **SD card cover** (→ 15)
- 22 **Access lamp [ACCESS]** (→ 15)
- 23 **Card slot** (→ 15)



24 DC input terminal [DC IN] (→ 11)

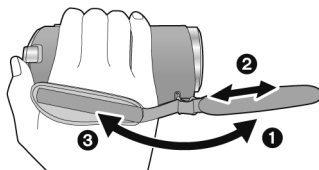
- Do not use any other AC adaptors except the supplied one.

25 Wi-Fi Transmitter (→ 139)

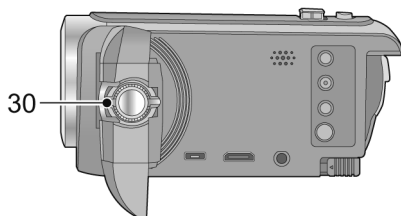
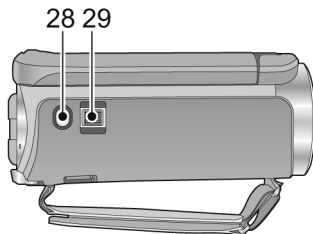
26 Shoulder strap fixture

27 Grip belt

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



- Flip the belt.
- Adjust the length.
- Replace the belt.



28 Photoshot button [] (→ 26)

29 Zoom lever [W/T] (In Motion Picture Recording Mode or Still Picture Recording Mode) (→ 43)/ Thumbnail display switch [/] (→ 30)/

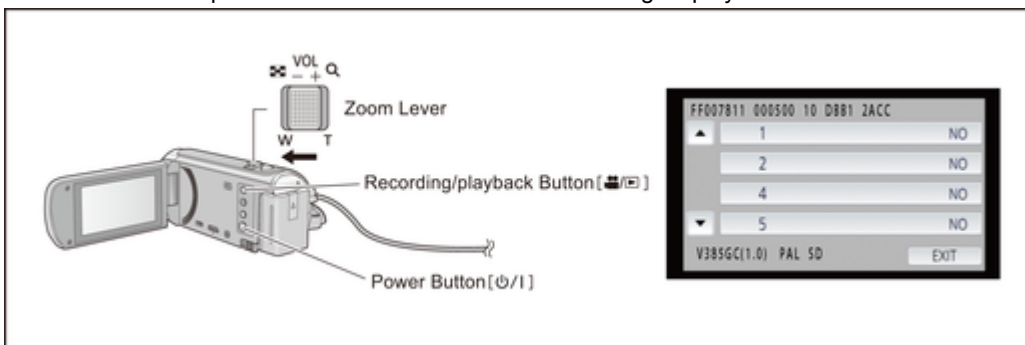
Volume lever [–VOL+] (In Playback Mode) (→ 30)

30 **W585**/ **W585M** Sub Camera dial (→ 47)

6 Service Mode

Indication method of the service menu

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



Service mode menu

Screen display	Contents	Function
1	Factory settings	Function to throw a product up in a factory shipment state.
2	Model/Destination settings	Change the Model/Destination. (Selectable models and destinations are displayed.)
4	Lock search history indication	Display the main camera system error code 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:

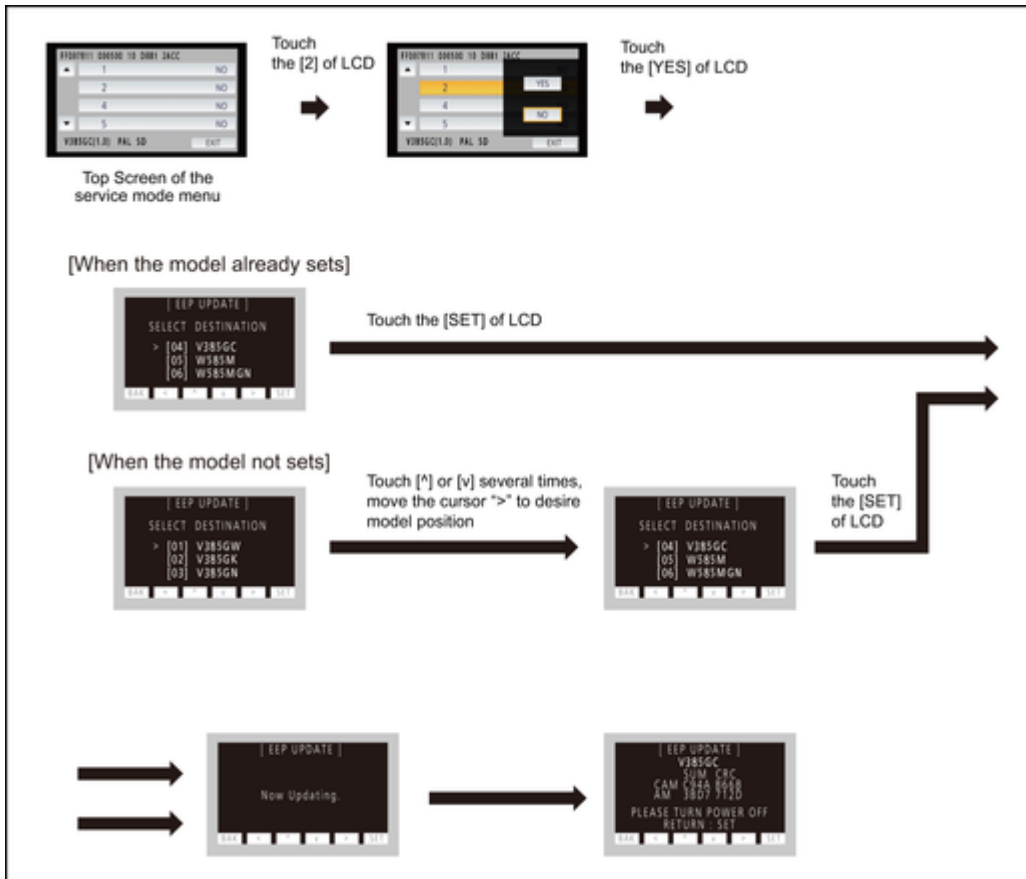
Do not using service mode except above table of Service mode menu.

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

6.1 Model/Destination Settings

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

Operation specifications



Function description

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

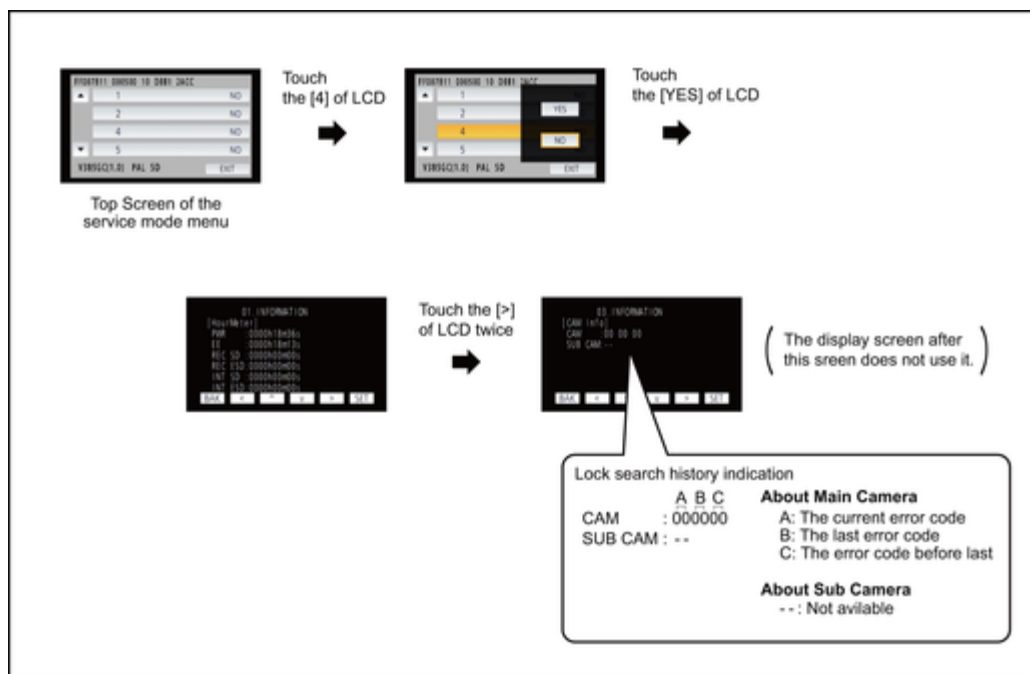
End method of operation

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

6.2 Lock Search and Error History Indication

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

Operation specifications



Indication contents

1. Main Camera

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

Error code	Description	Problematic Parts
51	Focus control is abnormal	Focus Stepping Motor / Lens Unit
52	Zoom control is abnormal	2nd Stepping Motor / Lens Unit
53	OIS lens control is abnormal	Lens Unit
54	Zoom control is abnormal (2)	3rd Stepping Motor / Lens Unit

2. Sub Camera

- This model has no sub camera.

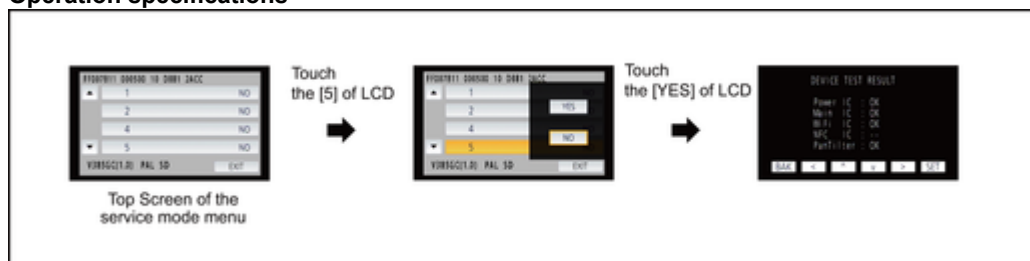
End method of operation

- Touch the [BAK] of LCD to exit the lock search and error history indication, and then POWER OFF.

6.3 Power ON Self Check Result Display

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

Operation specifications



Indication contents

- Power ON self check result display
Function to diagnose correct function of the device and interface between devices result display.
Display the following communication test result.
 - Power IC : Communication test between IC3401 and IC1503.
 - Main IC : DDR. Communication test inside IC3401.
 - WiFi IC : Communication test between IC3401 and Wi-Fi P.C.B..
 - NFC IC : -- (Excluded).
- Display other than “OK” are abnormalities of each lines.
 - PanTilter : Error display of the Remote Pan Tilt Cradle (VW-CTR1)
(When not connected the remote pan tilt cradle, display “--”.)
When error is occurred, display “NG” with the error code.

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

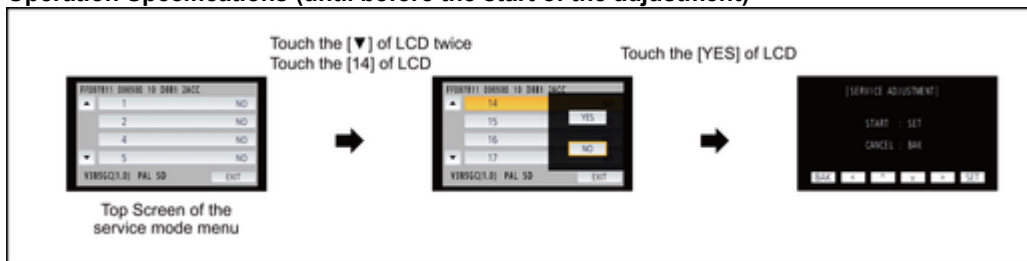
End method of operation

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

6.4 Adjustment function for the Service

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

Operation Specifications (until before the start of the adjustment)



Function description

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

- Model setting
- Setting of the file name for adjustment data backup to SD card.
- Execution of adjustment data backup to SD card
- Checking of Switches
- Camera adjustment
- Zoom Tracking adjustments
- Indoor White Balance Adjustment
- Outdoor White Balance Adjustment
- Level shot adjustment

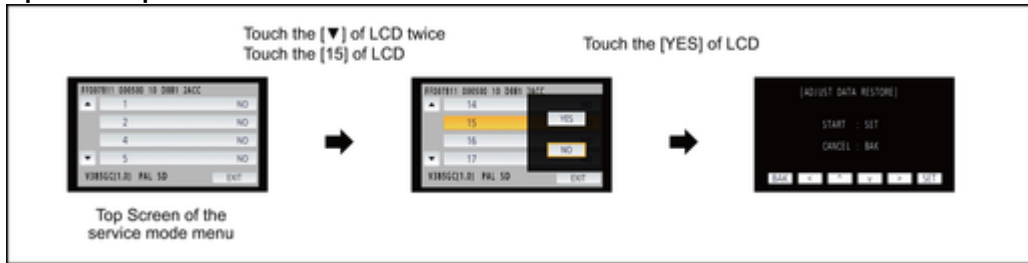
End method of operation

- Press the power button to turn the unit off.

6.5 Restore the backed up adjustment data

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

Operation Specifications

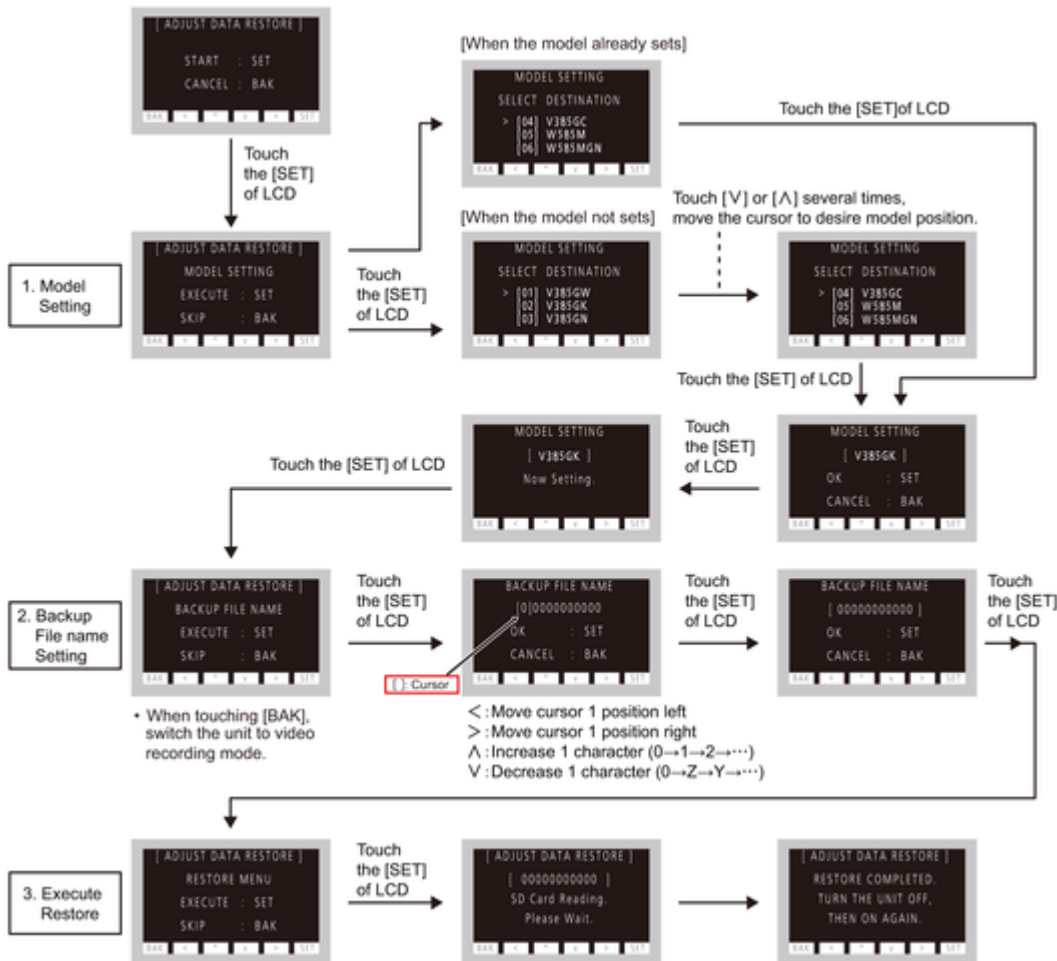


Function description

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

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

Restoring procedure



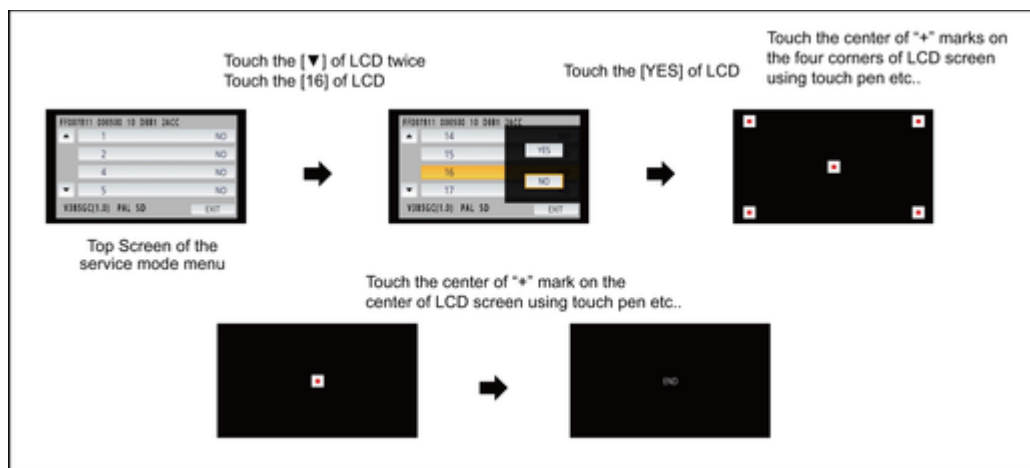
End method of operation

- Press the power button to turn the unit off.

6.6 Touch Panel Calibration

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

Operation Specifications



Function description

Calibrate the touch positions of the touch panel.

End method of operation

- Press the power button to turn the unit off.

7 Service Fixture & Tools

7.1 Service Fixture and Tools

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

Parts name	Parts No.	Remarks
Zoom Guide Shaft	VMS8231	2 use

(* When Installing the MOS Unit)

7.2 When Replacing the Main P.C.B.

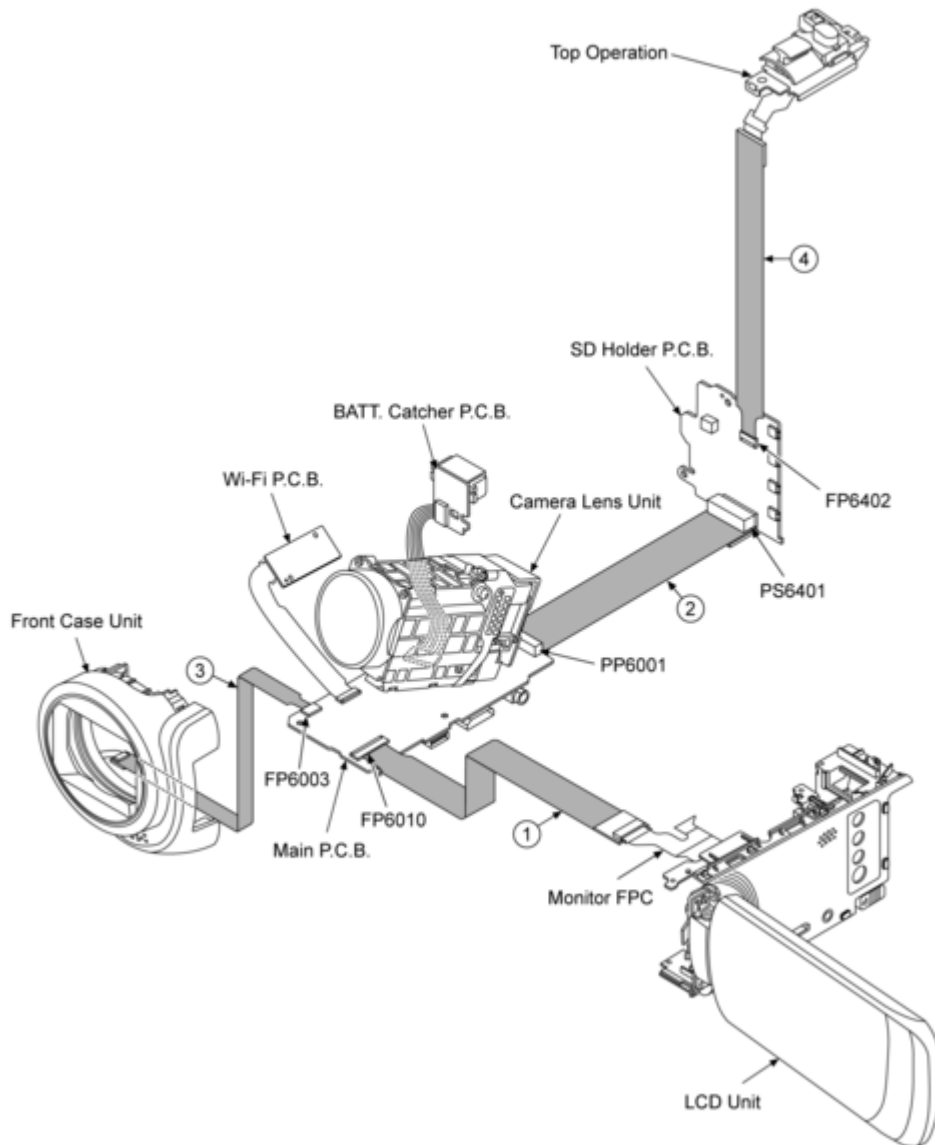
After replacing the MAIN P.C.B., be sure to achieve adjustment.

7.3 Service Position

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

No.	Parts No.	Connection	Form
1	RFKZ0354	FP6010(MAIN) - MONITOR FPC	37PIN 0.3 FFC
2	RFKZ0444	PP6001(MAIN) - PS6401(SD HOLDER)	50PIN 0.5 B to B
3	VFK1480	FP6003(MAIN) - ECM FPC	6PIN 0.5 FFC
4	VFK1440	FP6402(SD HOLDER) - TOP OPERATION	10PIN 0.5 FFC

7.3.1 Extention Cable Connection

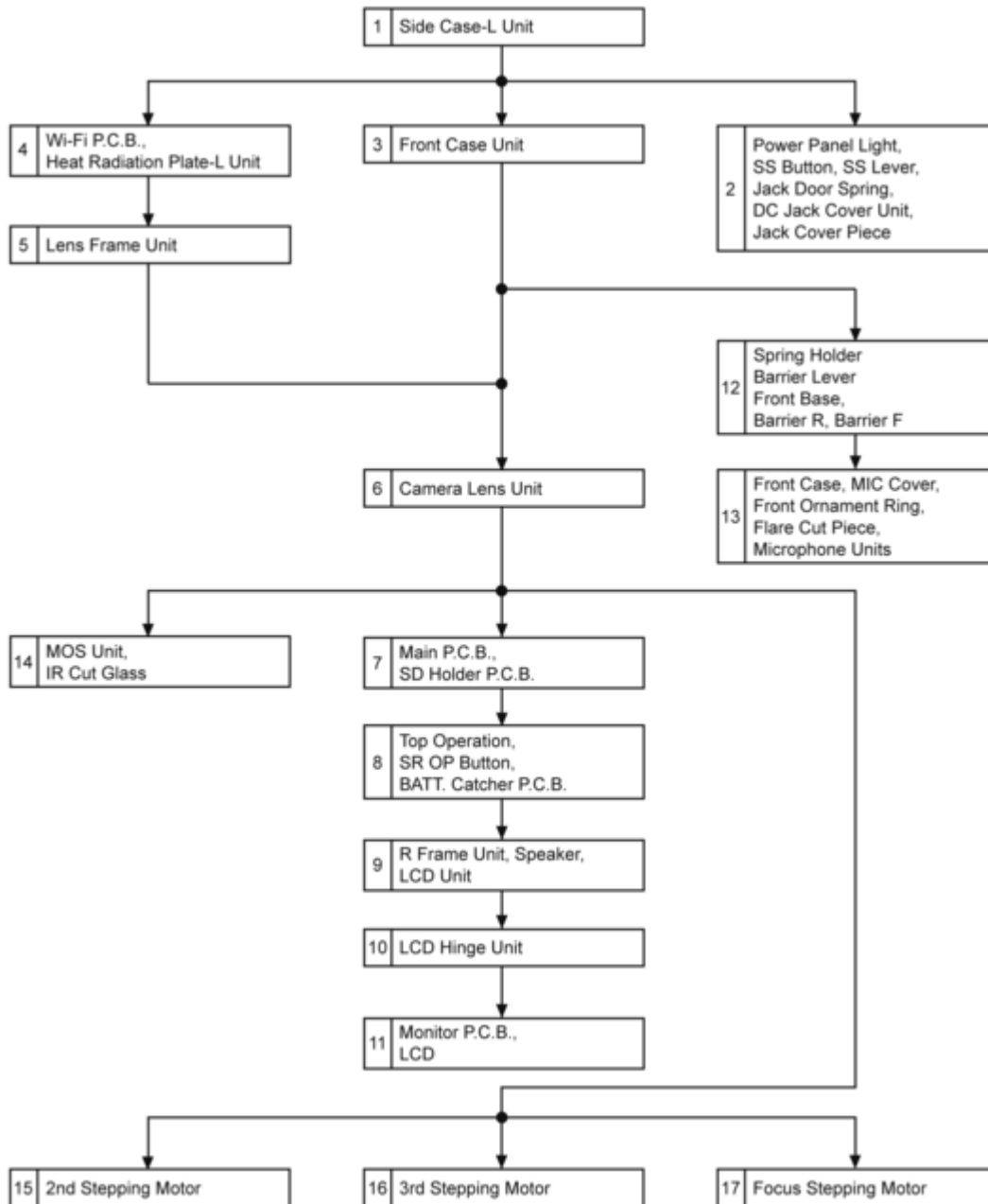


8 Disassembly and Assembly Instructions

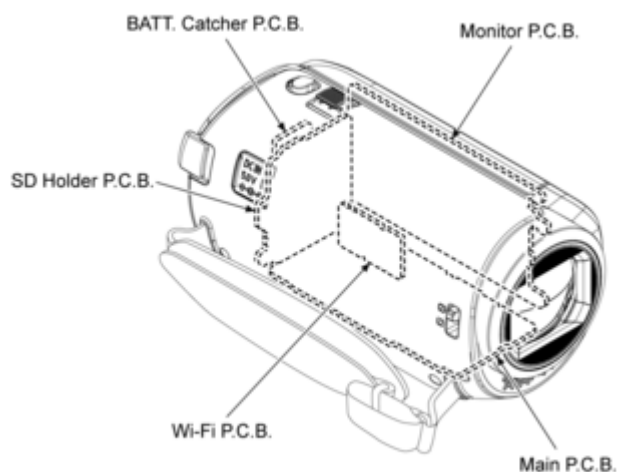
8.1 Disassembly Flow Chart for the Unit

This is a disassembling chart.

When assembling, perform this chart conversely.



8.2 PCB Location

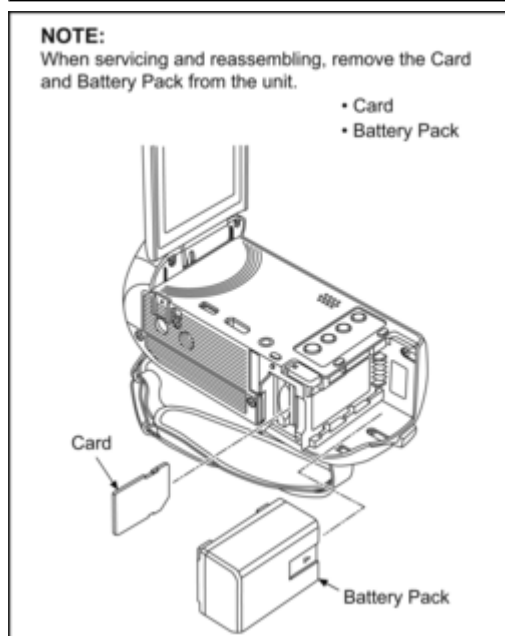


8.3 Disassembly Procedure for the Unit

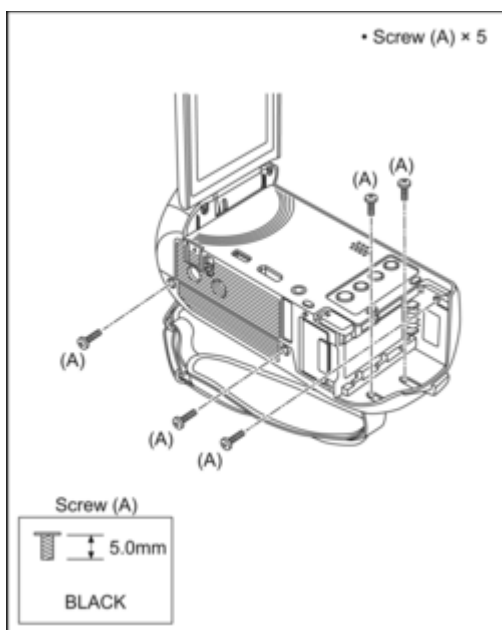
No.	Item	Fig.	Removal
1	Side Case-L Unit	(Fig. D1) (Fig. D2)	Screw (A) x 5
			Screw (B) x 1
			Locking tab x 5
			Projecting part x 1
			Side Case-L Unit
2	Power Panel Light, SS Button SS Lever , Jack Door Spring , DC Jack Cover Unit , Jack Cover Piece	(Fig. D3)	Power Panel Light
			Locking tab x 1
			SS Button
			Screw (C) x 1
			Locking tab x 2
			Locking tab x 2
			SS Lever
			Convex x 4
			Jack Door Spring
			DC Jack Cover Unit
			Jack Cover Piece
3	Front Case Unit	(Fig. D4)	Screw (D) x 1
			Screw (E) x 2
			FP6003 (Flex)
			Convex x 3
		(Fig. D5)	Front Case Unit
4	Wi-Fi P.C.B., Heat Radiation Plate-L Unit	(Fig. D6)	Flex A
			Screw (F) x 1
			Wi-Fi P.C.B.
			Heat Radiation Plate-L Unit
5	Lens Frame Unit	(Fig. D7)	Screw (G) x 1
			Screw (H) x 1
			P6003 (Connector)
			Screw (I) x 2
			Projecting part x 1
			Locking tab x 2
		(Fig. D8)	Lens Frame Unit
6	Camera Lens Unit	(Fig. D9)	FP301 (Flex)

			FP6008 (Flex)
		(Fig. D10)	Convex x 2
			Camera Lens Unit
7	Main P.C.B., SD Holder P.C.B.	(Fig. D11)	Screw (J) x 1
			Screw (K) x 1
			Screw (L) x 1
			Convex x 2
		(Fig. D12)	Heat Radiation Plate Unit
			Screw (M) x 1
			Screw (N) x 1
			P6401 (Connector)
			FP6402 (Flex)
			FP6010 (Flex)
		(Fig. D13)	Convex x 4
			SR Slide Lever
			Locking tab x 4
			Convex x 2
			Bottom Frame Unit
			PP6001 (Connector)
			SD Holder P.C.B.
			Main P.C.B.
8	Top Operation, SR OP Button, BATT. Catcher P.C.B.	(Fig. D14)	Locking tab x 1
			Hooking part x 1
			Top Operation
			Locking tab x 1
			Hooking part x 1
			Convex x 3
			SR OP Button
		(Fig. D15)	BATT. Catcher P.C.B.
9	R Frame Unit, Speaker, LCD Unit	(Fig. D16)	Screw (O) x 2
		(Fig. D17)	Locking tab x 4
			Convex x 1
			LCD Lever
			R Frame Unit
		(Fig. D18)	Convex x 4
			Hooking part x 4
			Speaker
			Convex x 2
			LCD Unit
10	LCD Hinge Unit	(Fig. D19)	Screw (P) x 2
			Screw (Q) x 2
			Locking tab x 8
			LCD Case (T) Unit
			FP902 (Flex)
		(Fig. D20)	Projecting part x 1
			Convex x 1
			LCD Hinge Unit
			Screw (R) x 1
			Convex x 2
			Projecting part x 1
			LCD Frame A
11	Monitor P.C.B., LCD	(Fig. D21)	FP904 (Flex)
			FP905 (Flex)
			Locking tab x 1
			Hooking part x 1

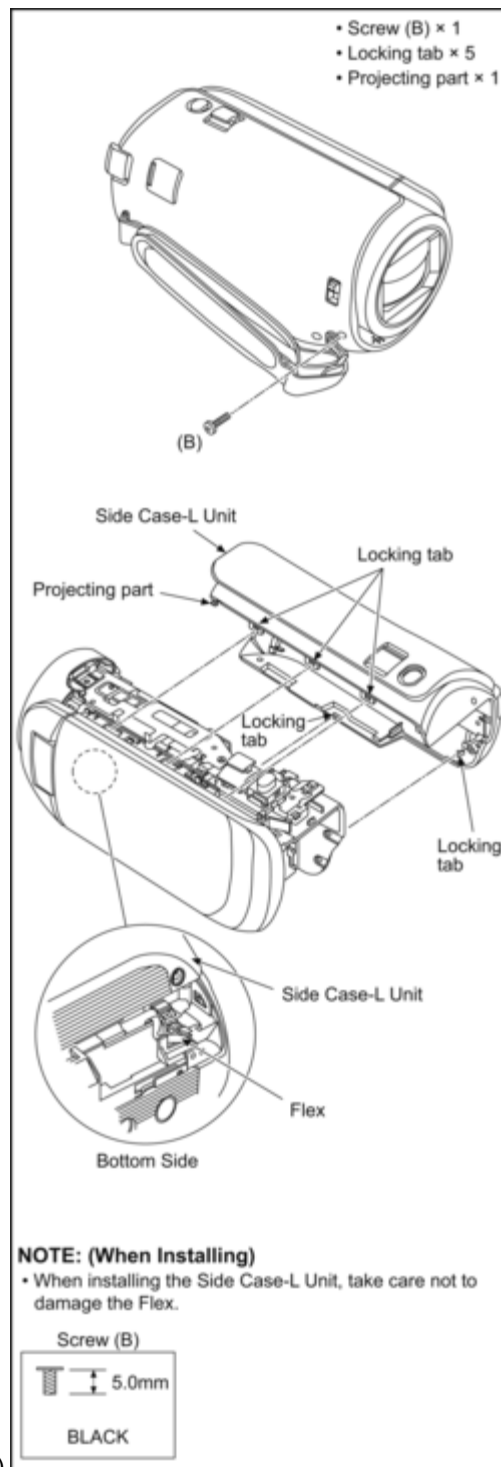
			Monitor P.C.B.
		(Fig. D22)	Locking tab x 4
			LCD
			TP Spacer
			LCD Frame B
			LCD Case (B) Unit
		(Fig. D23)	Reflection Sheet
			Light Guide Plate
			Diffusion Sheet
			Prism Sheet B
			Prism Sheet A
			LGP Holder
12	Spring Holder, Barrier Lever, Front Base, Barrier R, Barrier F	(Fig. D24)	Projecting part x 3
			Lens Damper Rubber
			Screw (S) x 4
			Convex x 3
		(Fig. D25)	Screw (T) x 1
			Spring Holder
			Barrier Spring
			Locking tab x 2
			Barrier Lever
			Convex x 1
			Front Base
			Barrier R
			Barrier F
13	Front Case, MIC Cover, Front Ornament Ring, Flare Cut Piece, Microphone Units	(Fig. D26)	Screw (U) x 1
			Hooking part x 3
			Flare Cut Piece
			Front Ornament Ring
			MIC Cover
			Convex x 1
			MIC Sponge-F
			MIC Sponge-M
			Microphone Units
			MIC Sponge-R
			Front Case
14	MOS Unit, IR Cut Glass	(Fig. D27)	Screw (V) x 3
			MOS Unit
			MOS Cushion
			IR Cut Glass
		(Fig. D28)	NOTE: (When Installing
		(Fig. D29)	the MOS Unit)
15	2nd Stepping Motor	(Fig. D30)	Solder x 16 points
			Screw (W) x 3
			Convex x 5
		(Fig. D31)	Screw (X) x 2
			Convex x 4
			2nd Stepping Motor
16	3rd Stepping Motor	(Fig. D32)	Solder x 4 points
		(Fig. D33)	Screw (Z) x 2
			3rd Stepping Motor
17	Focus Stepping Motor	(Fig. D34)	Solder x 8 points
			Screw (a) x 1
			Convex x 1
		(Fig. D35)	Screw (b) x 2



8.3.1 Removal of the Side Case-L Unit

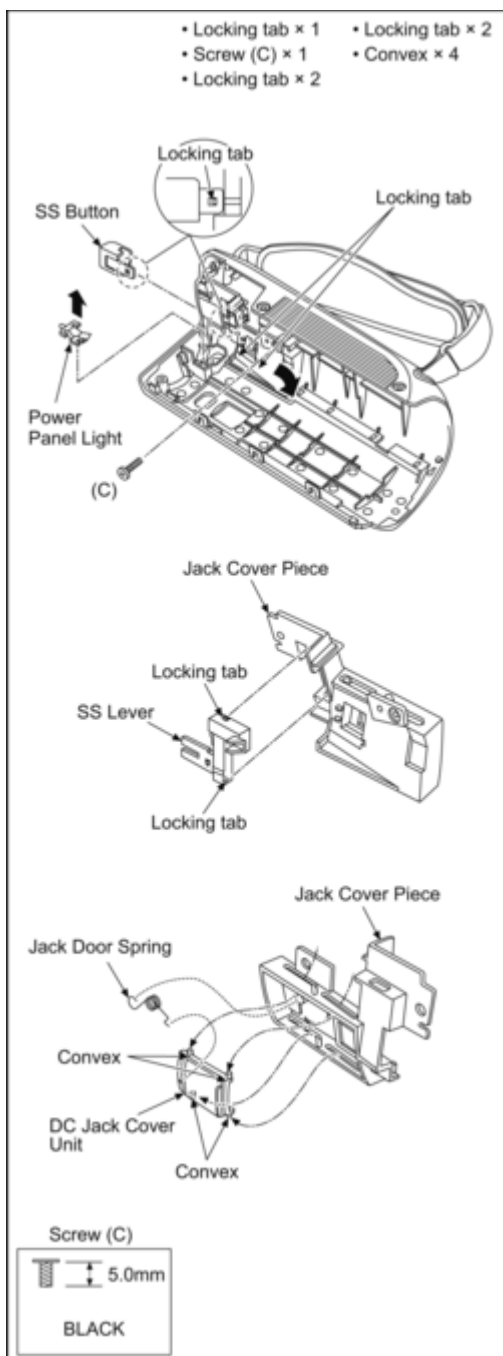


(Fig. D1)



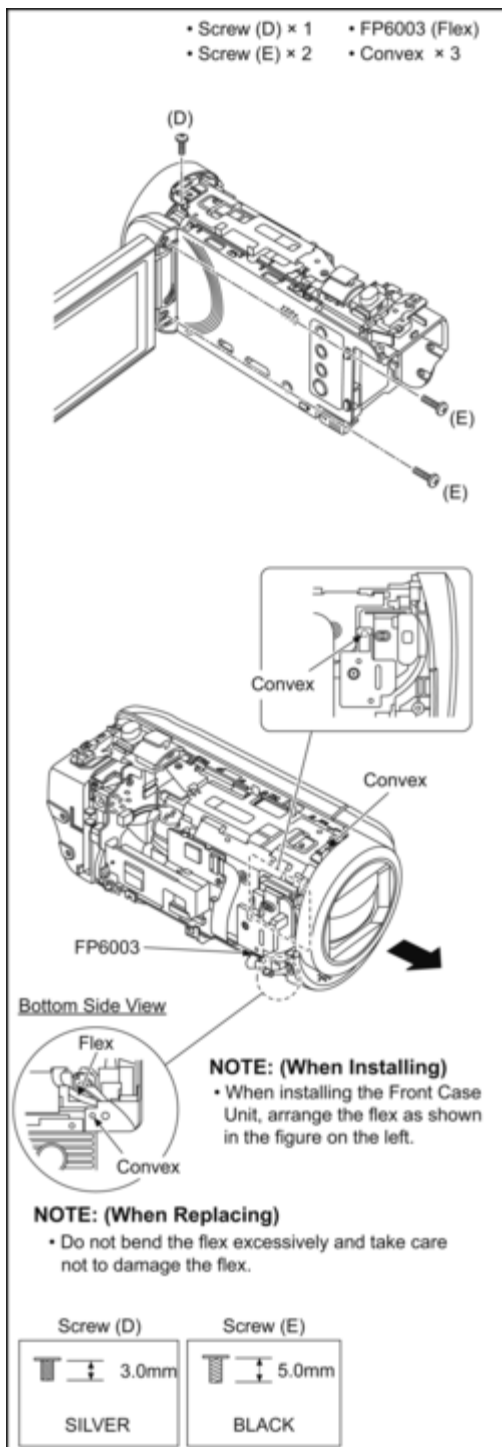
(Fig. D2)

8.3.2 Removal of the Power Panel Light, SS Button, SS Lever, Jack Door Spring, DC Jack Cover Unit, Jack Cover Piece

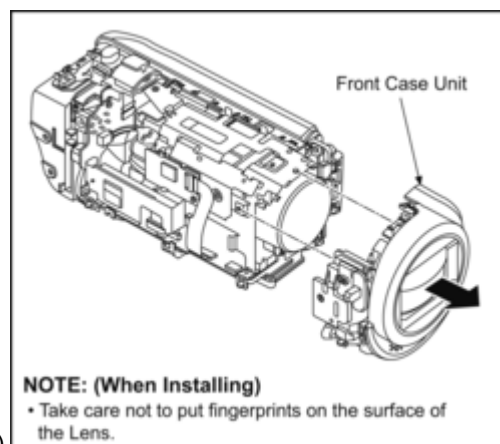


(Fig. D3)

8.3.3 Removal of the Front Case Unit

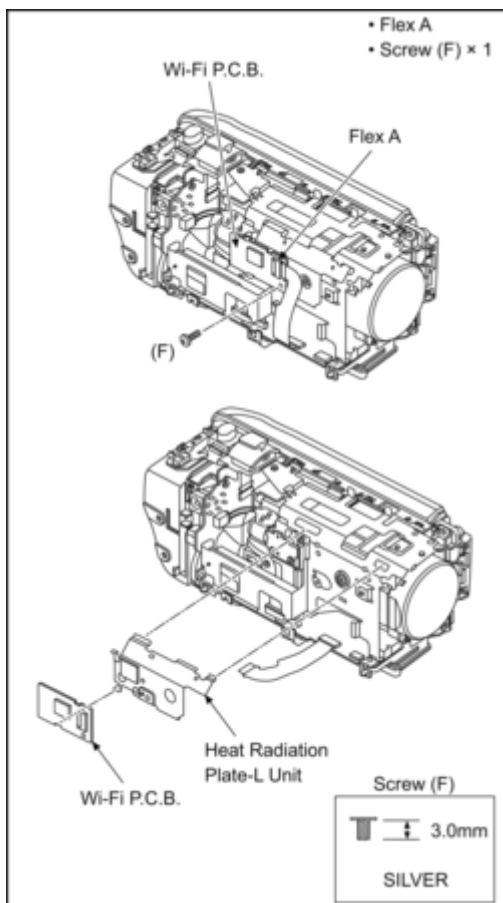


(Fig. D4)



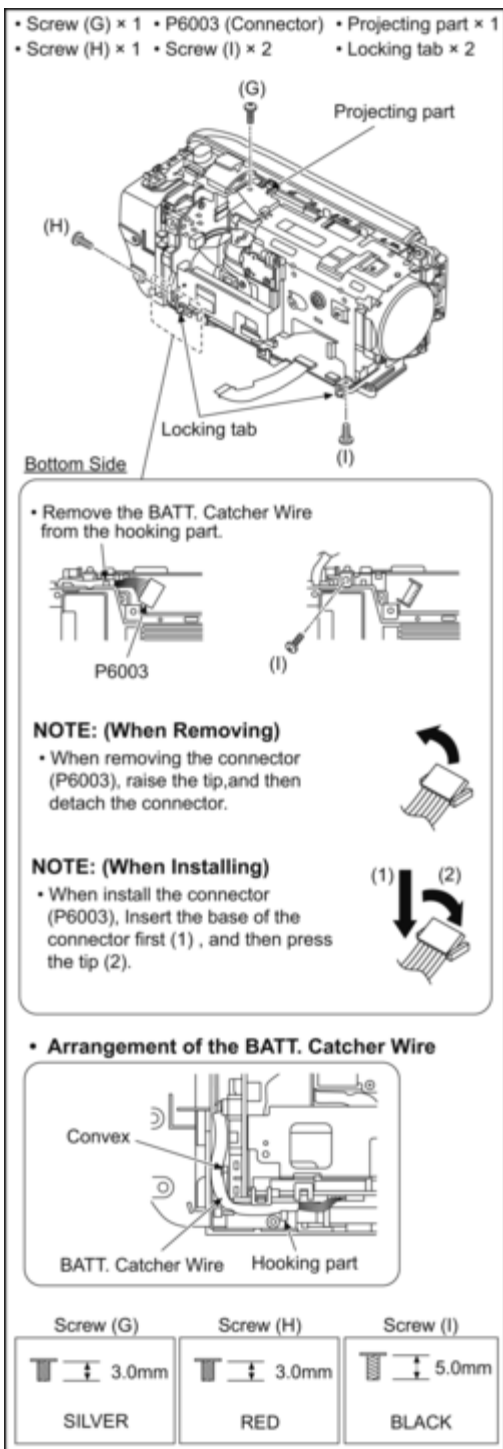
(Fig. D5)

8.3.4 Removal of the Wi-Fi P.C.B., Heat Radiation Plate-L Unit

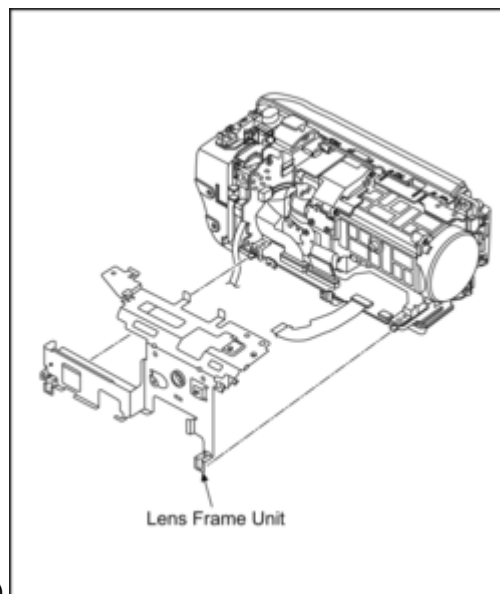


(Fig. D6)

8.3.5 Removal of the Lens Frame Unit

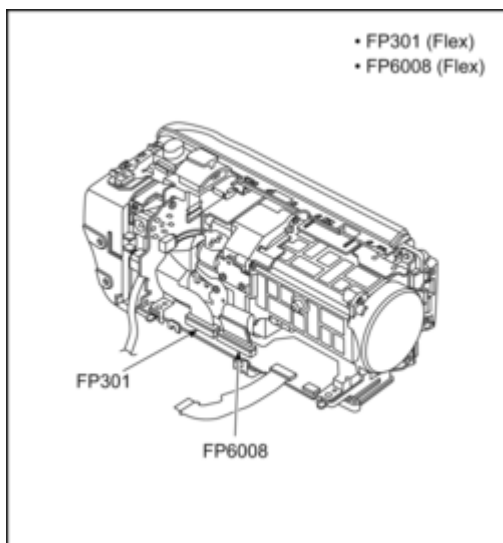


(Fig. D7)

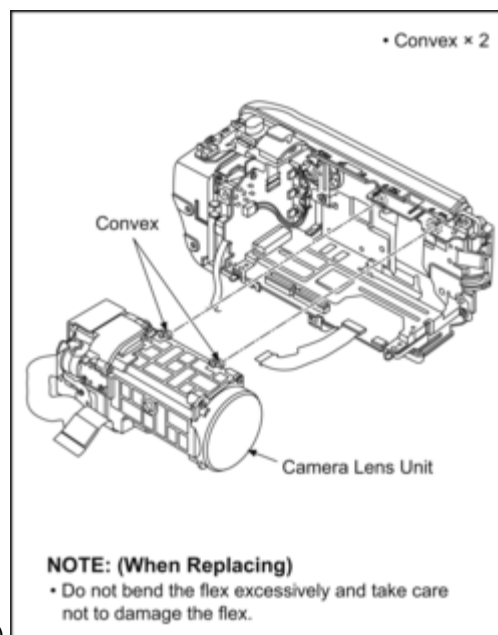


(Fig. D8)

8.3.6 Removal of the Camera Lens Unit

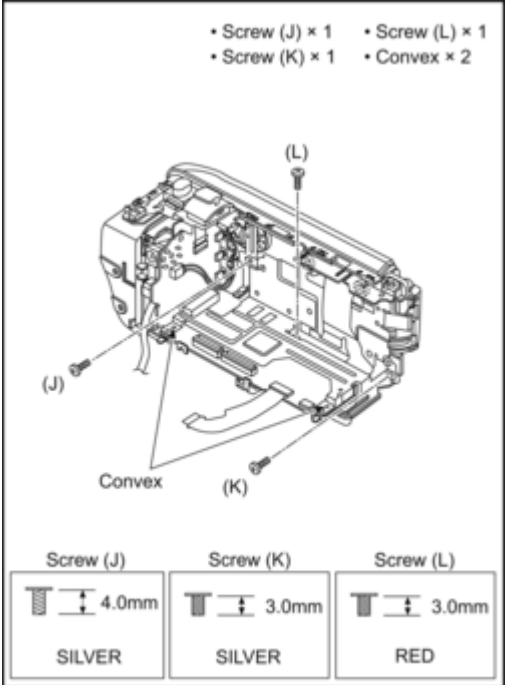


(Fig. D9)

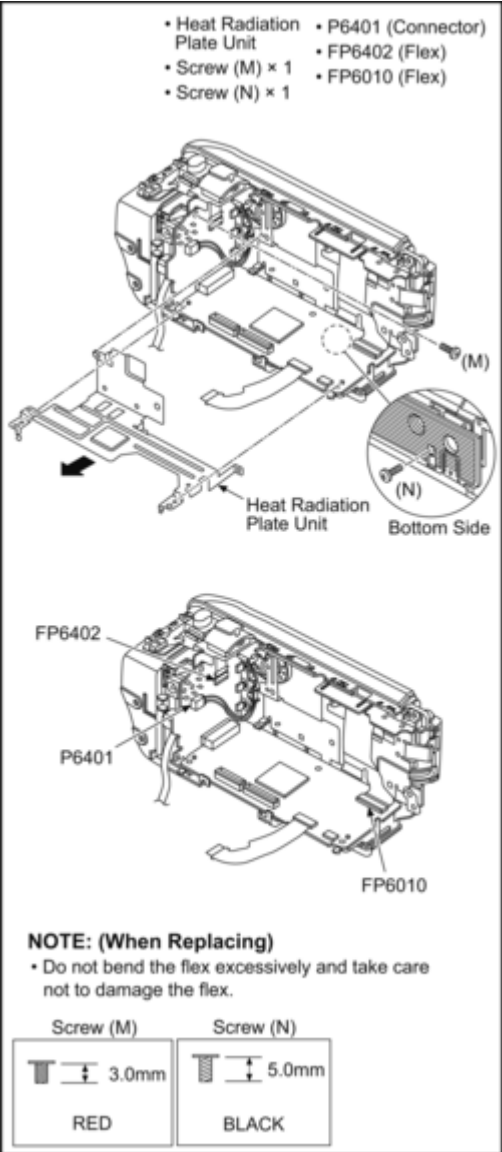


(Fig. D10)

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

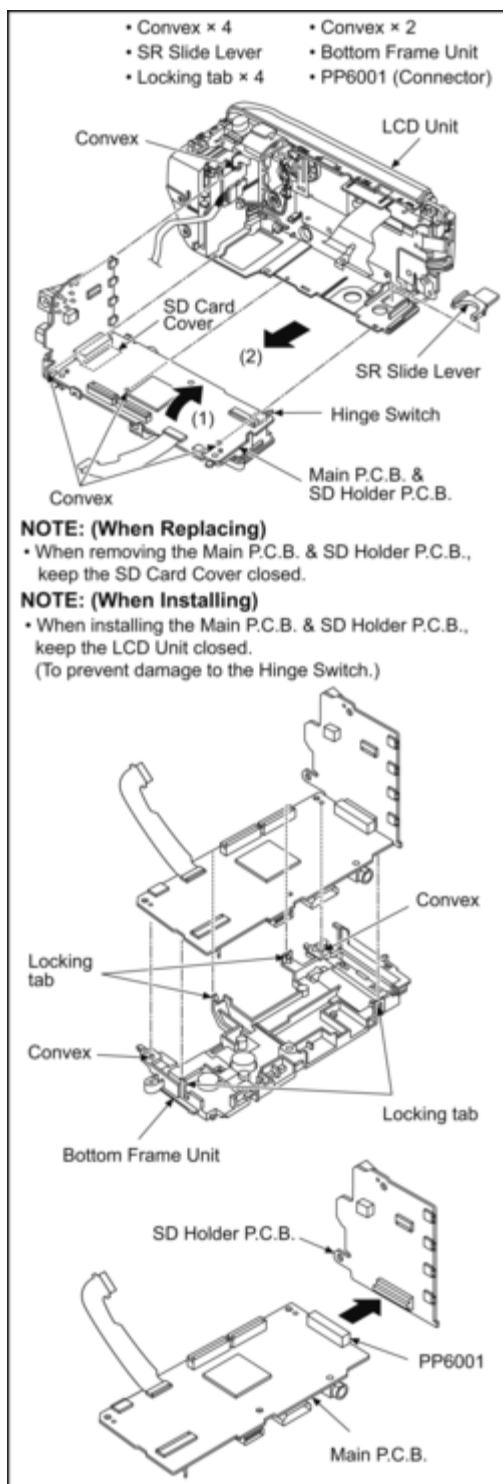


(Fig. D11)



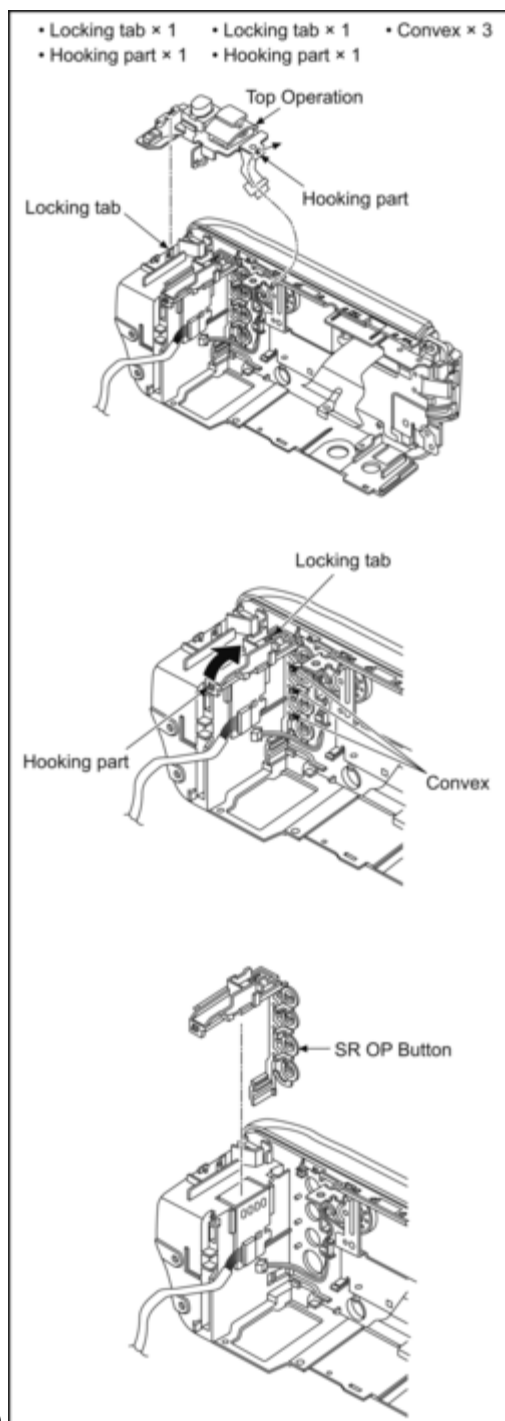
(Fig. D12)

(Fig.

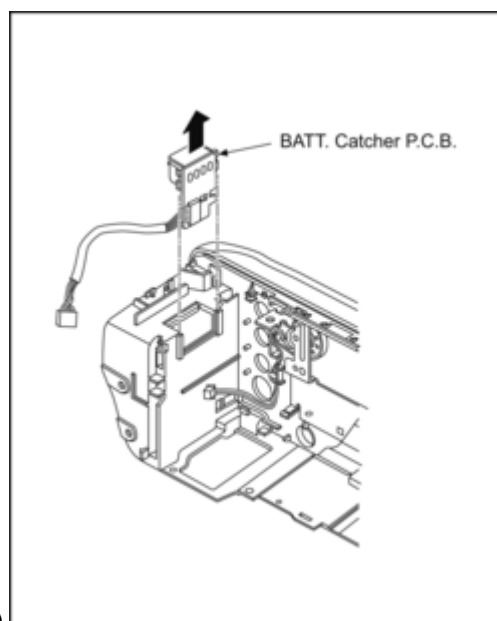


D13)

8.3.8 Removal of the Top Operation, SR OP Button, BATT. Catcher P.C.B.

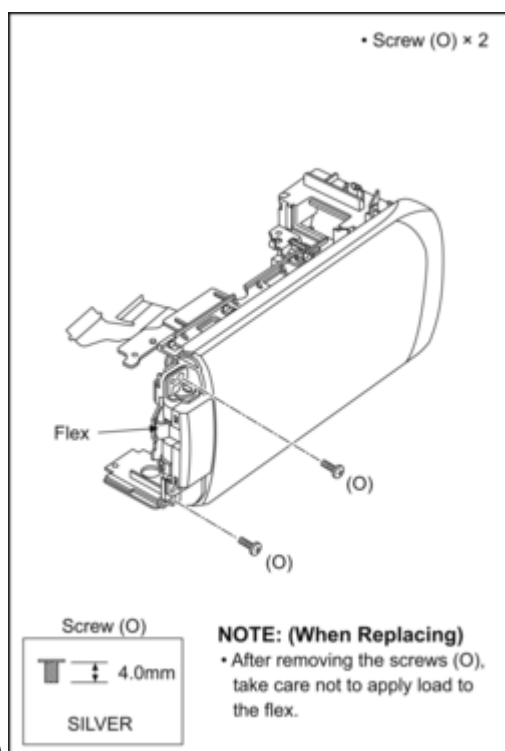


(Fig. D14)

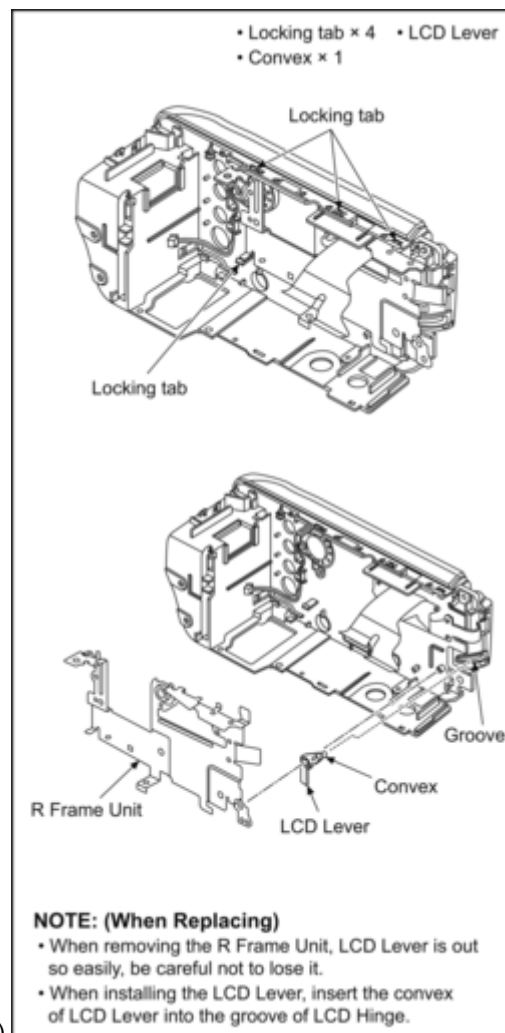


(Fig. D15)

8.3.9 Removal of the R Frame Unit, Speaker, LCD Unit

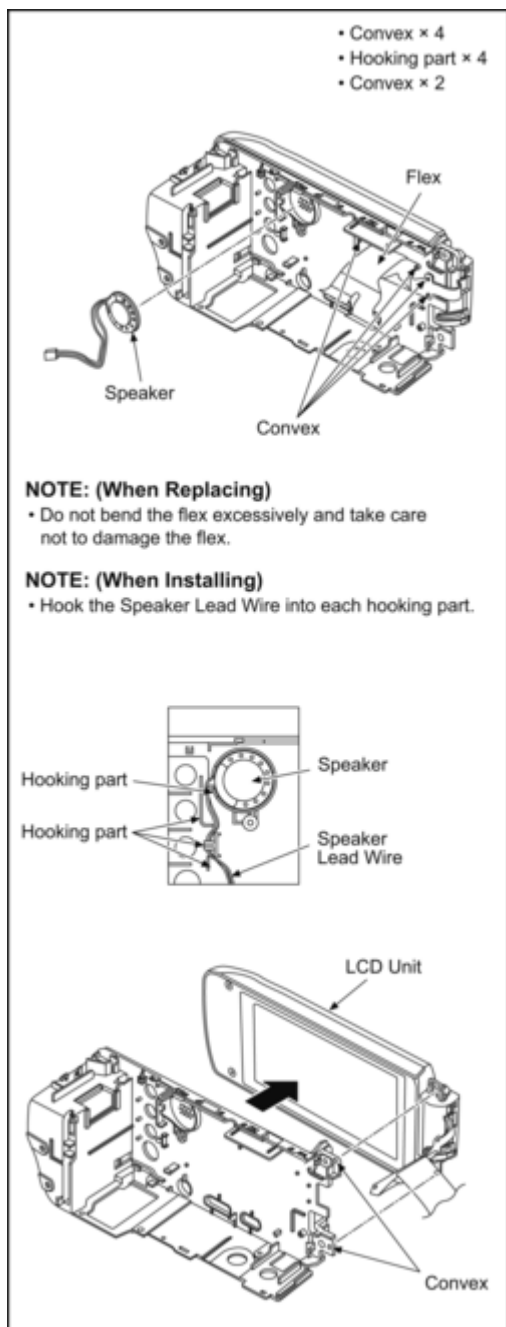


(Fig. D16)



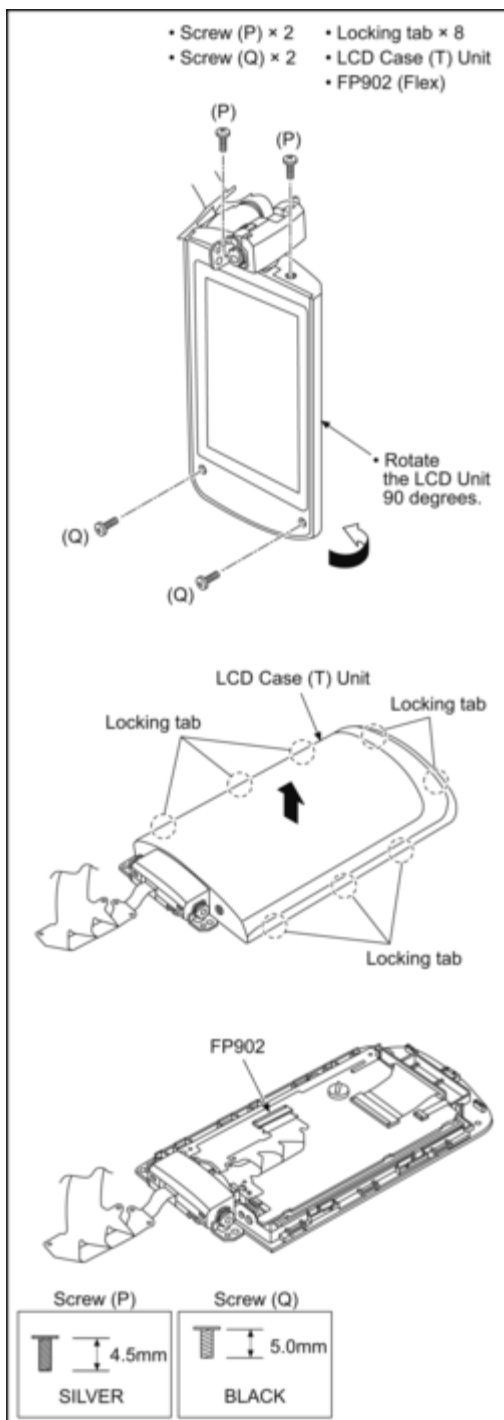
(Fig. D17)

(Fig.

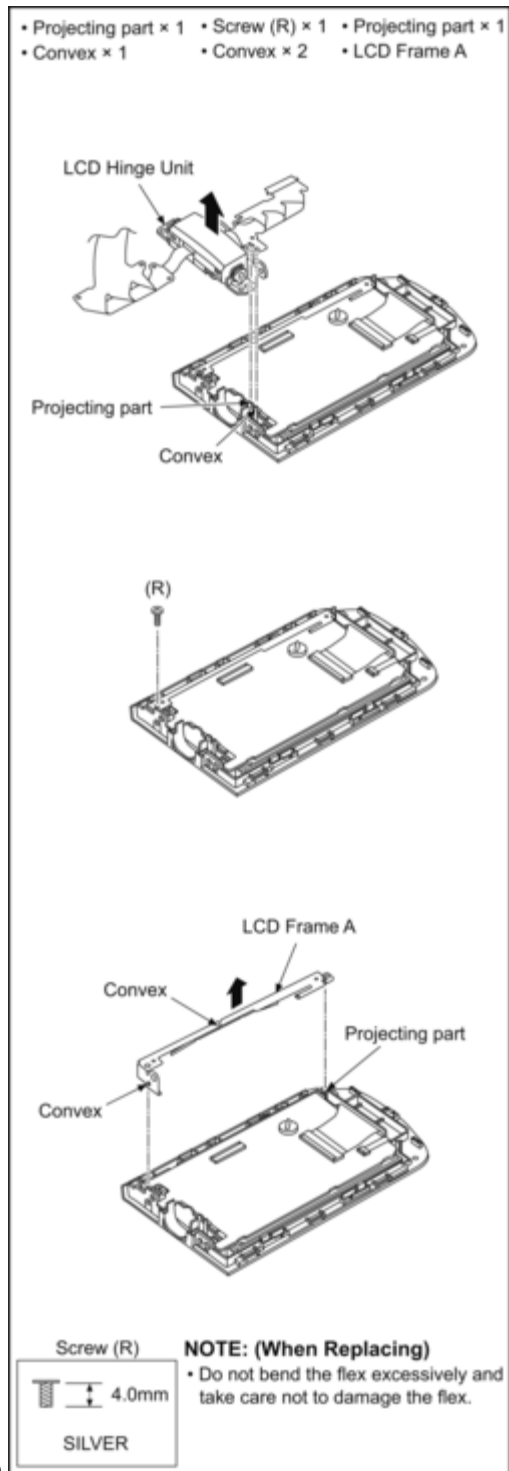


D18)

8.3.10 Removal of the LCD Hinge Unit

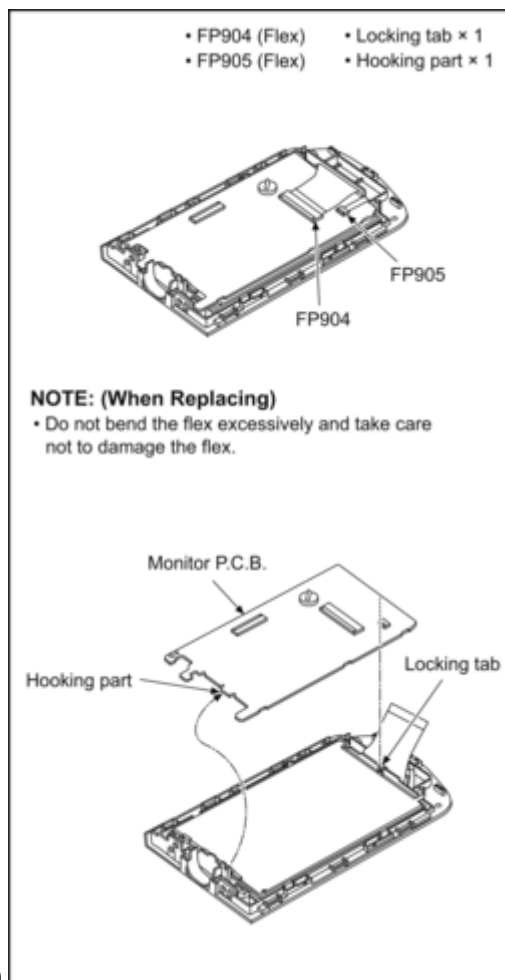


(Fig. D19)



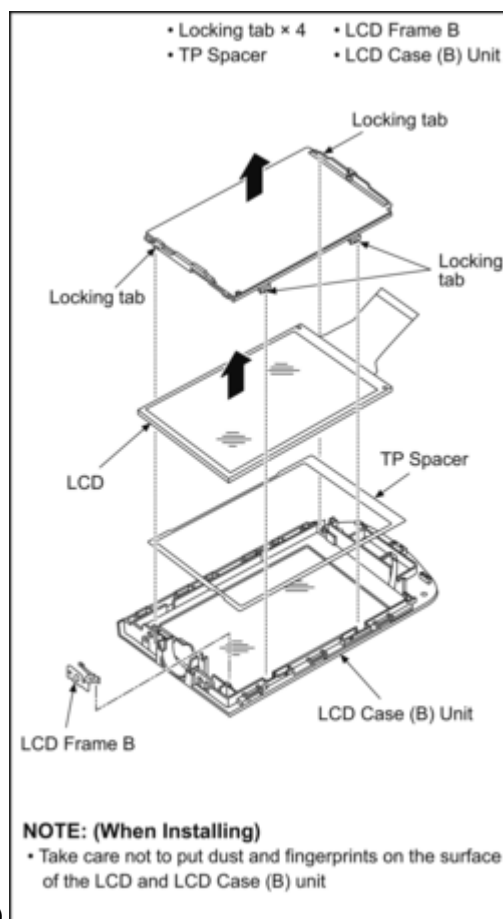
(Fig. D20)

8.3.11 Removal of the Monitor P.C.B., LCD

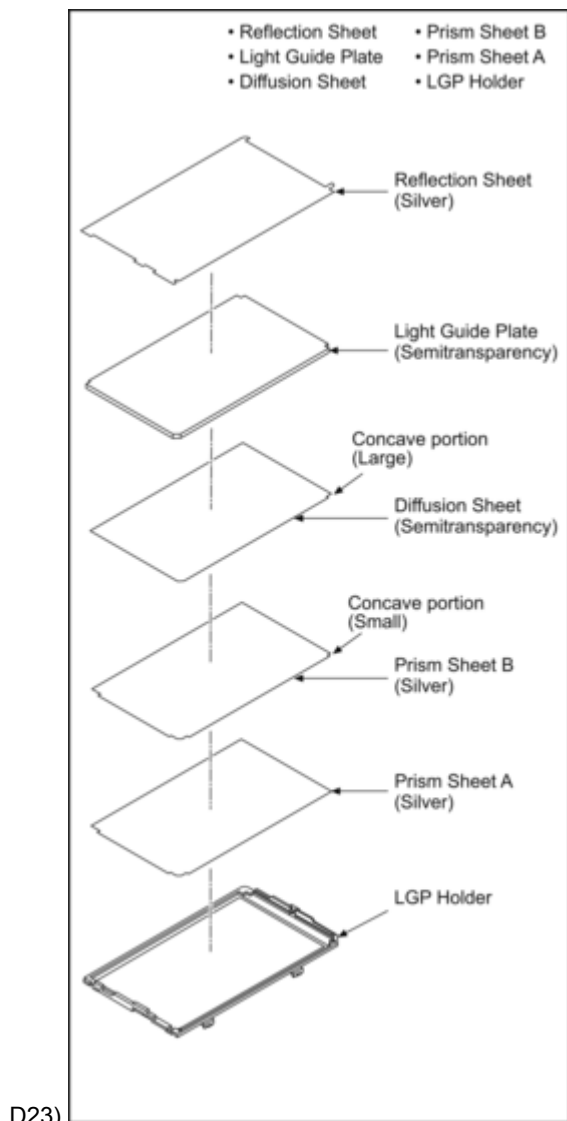


(Fig. D21)

(Fig. D22)

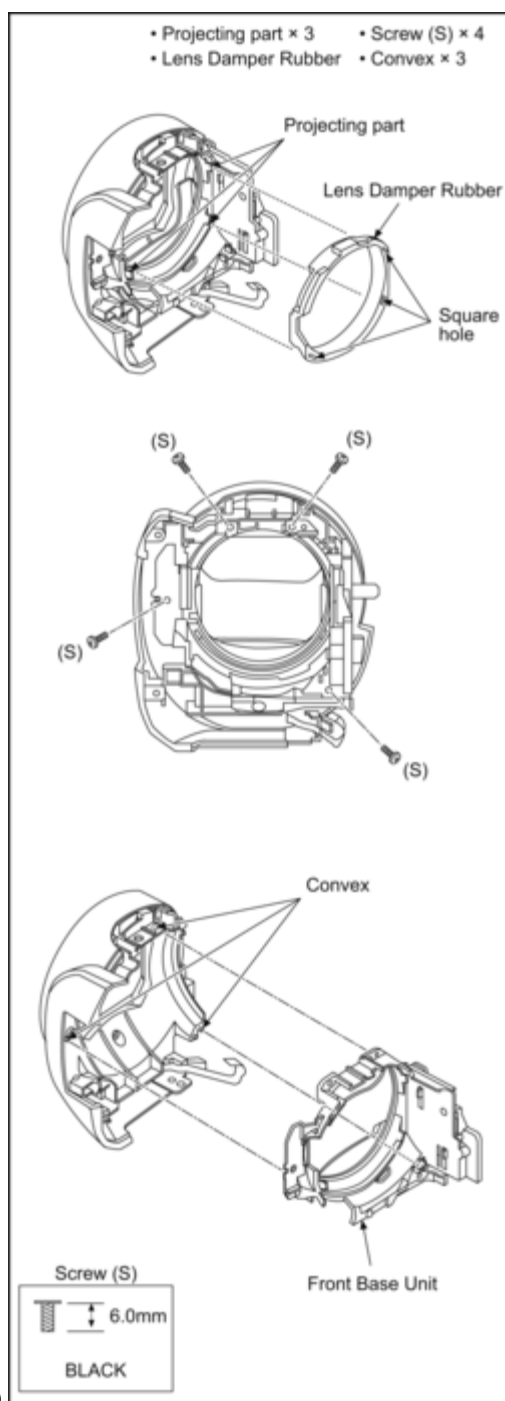


(Fig.

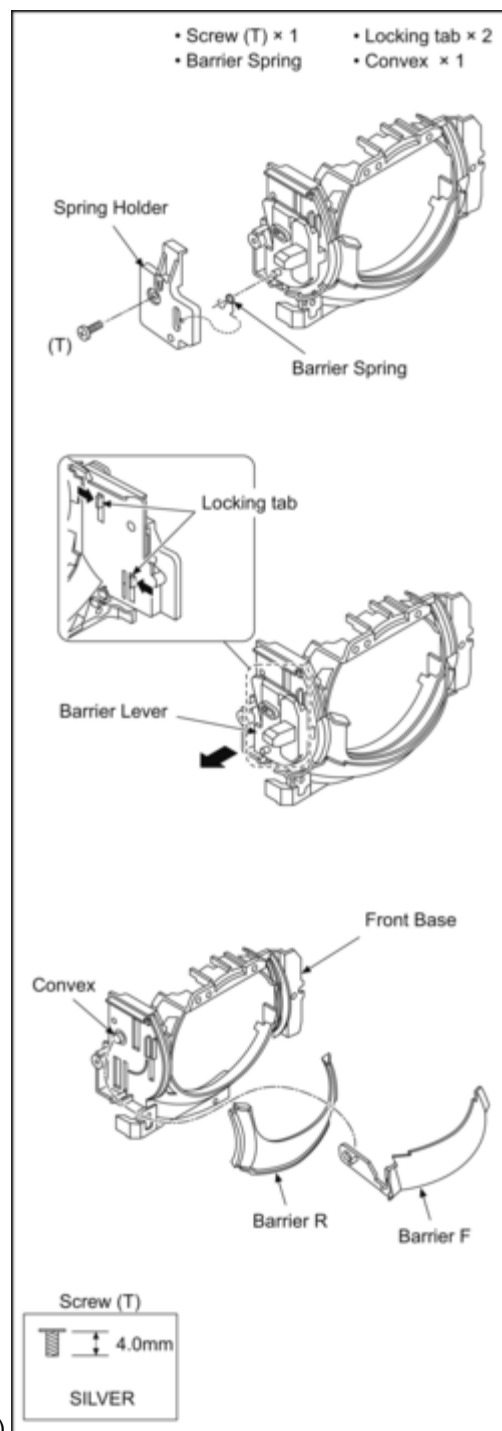


D23)

8.3.12 Removal of the Spring Holder, Barrier Lever, Front Base, Barrier R, Barrier F

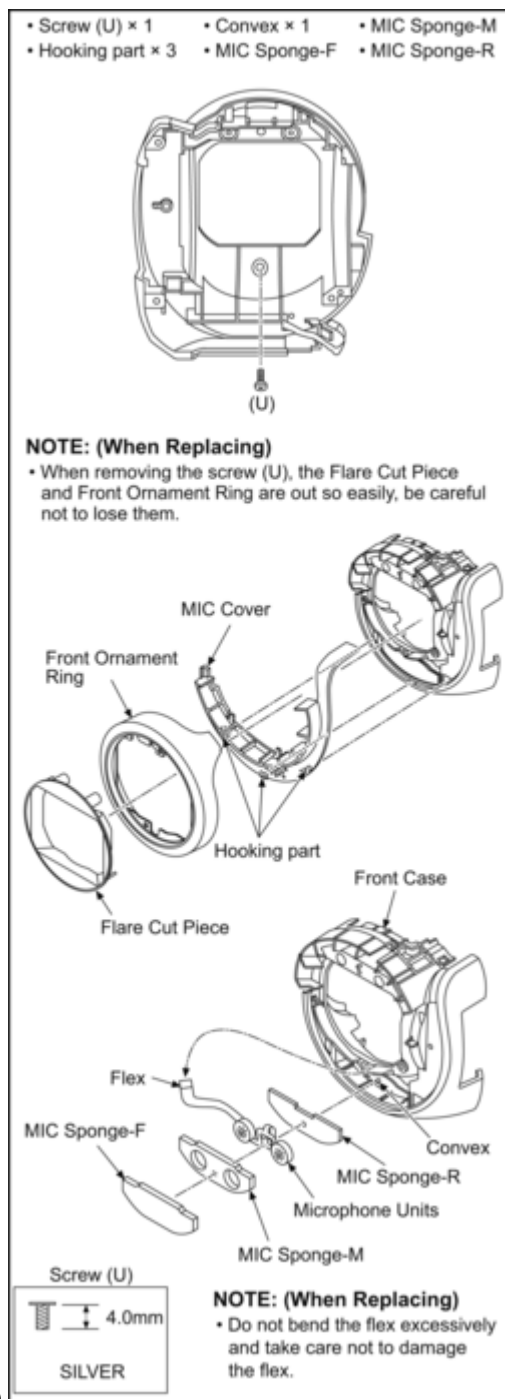


(Fig. D24)



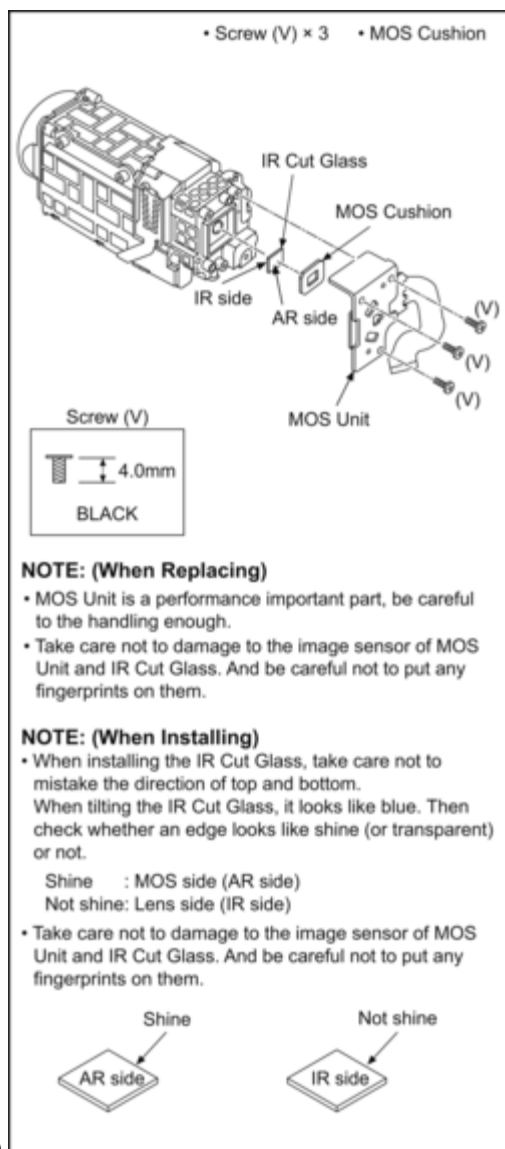
(Fig. D25)

8.3.13 Removal of the Front Case, MIC Cover, Front Ornament Ring, Flare Cut Piece, Microphone Units

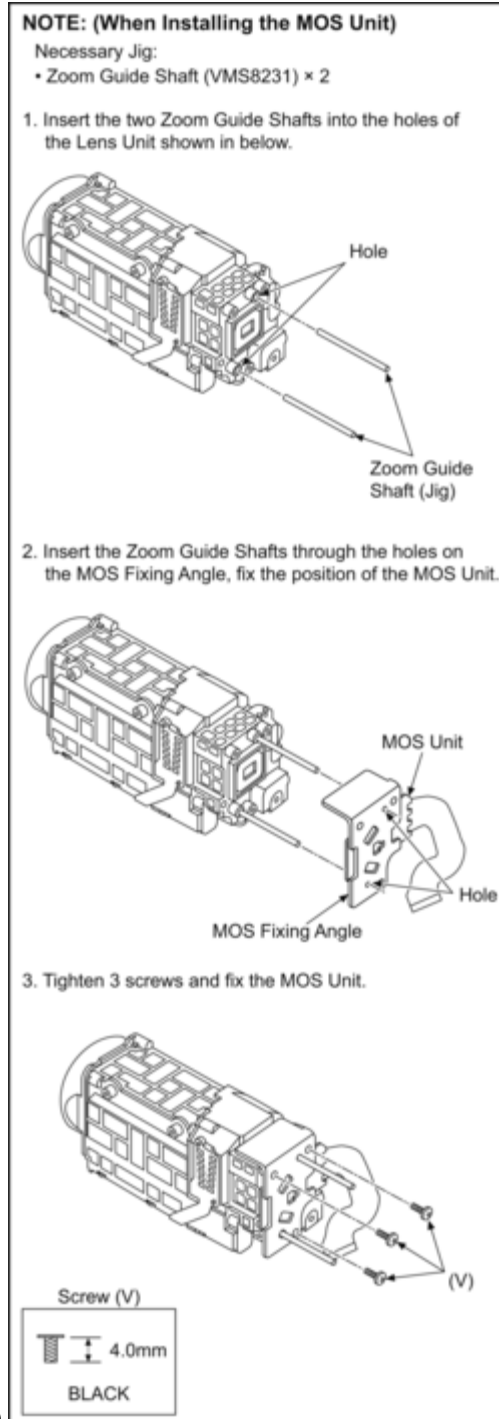


(Fig. D26)

8.3.14 Removal of the MOS Unit, IR Cut Glass



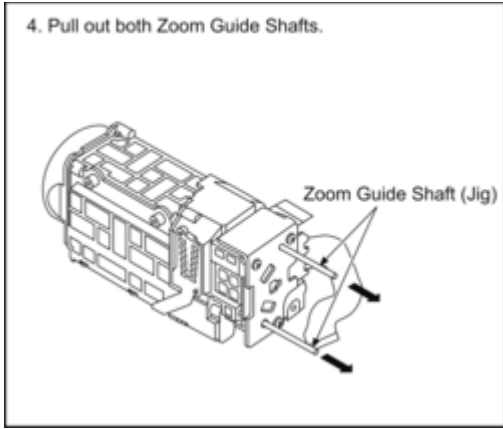
(Fig. D27)



(Fig. D28)

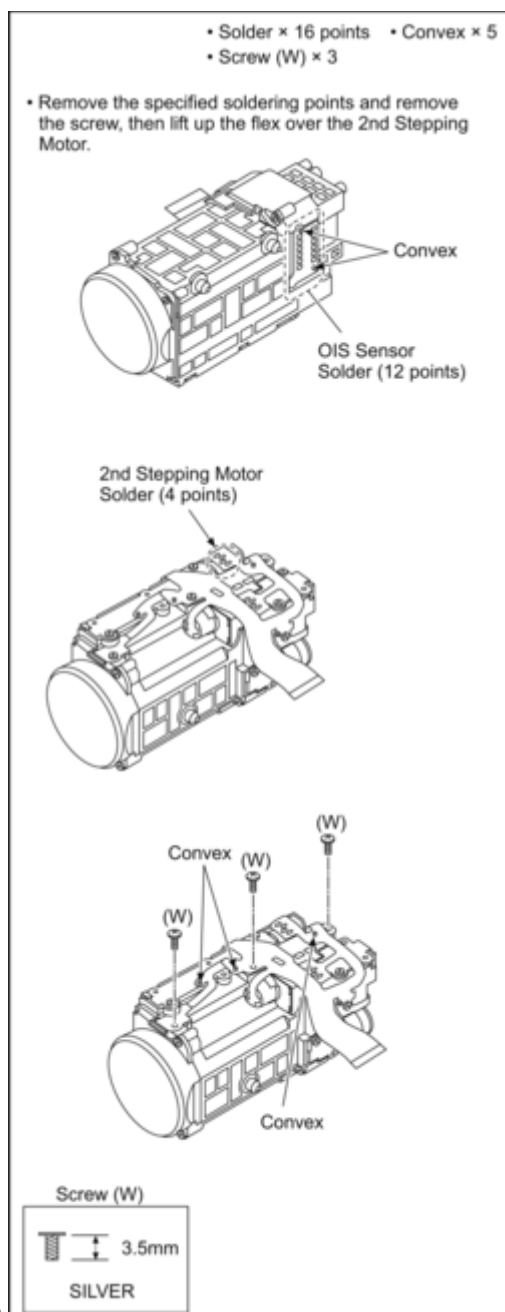
(Fig.

4. Pull out both Zoom Guide Shafts.

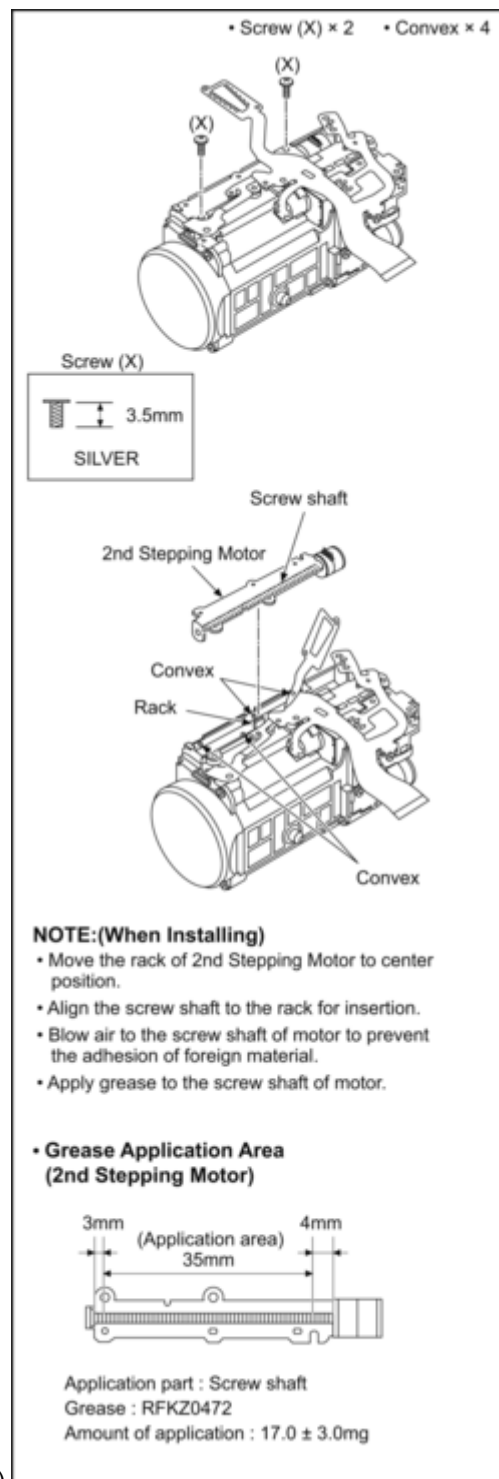


D29)

8.3.15 Removal of the 2nd Stepping Motor

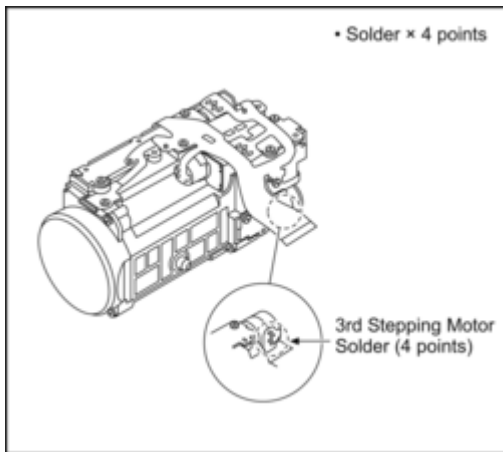


(Fig. D30)

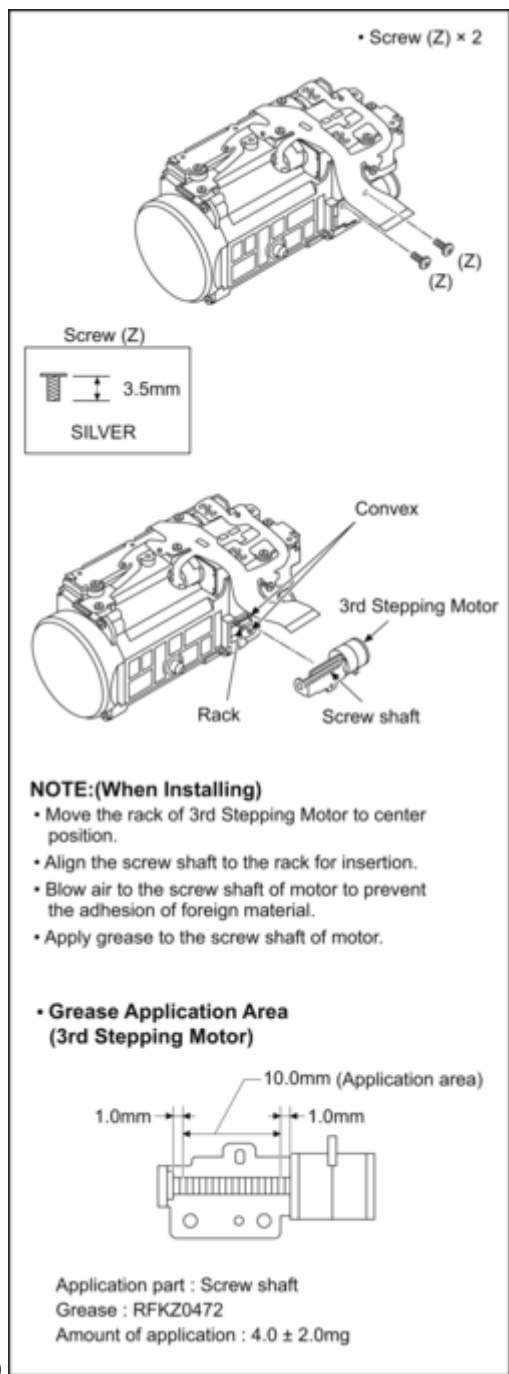


(Fig. D31)

8.3.16 Removal of the 3rd Stepping Motor

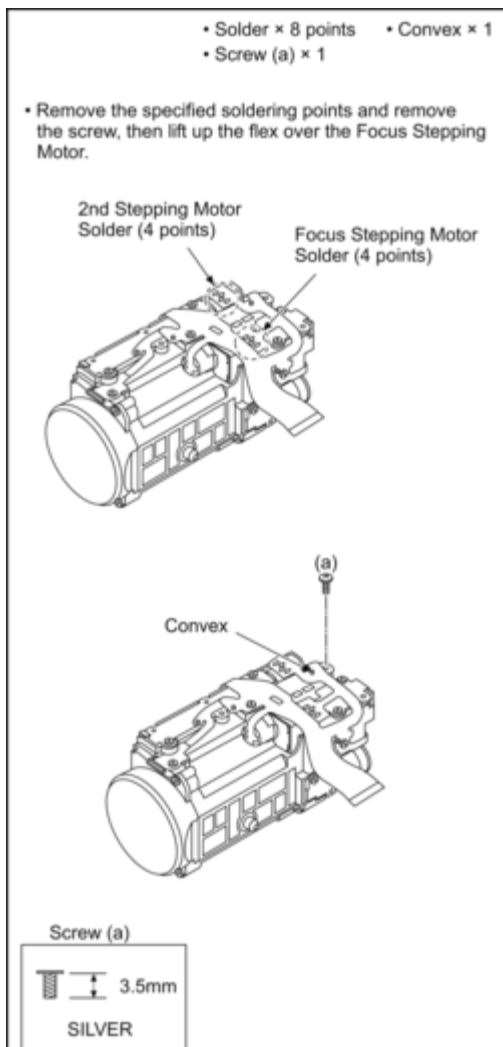


(Fig. D32)

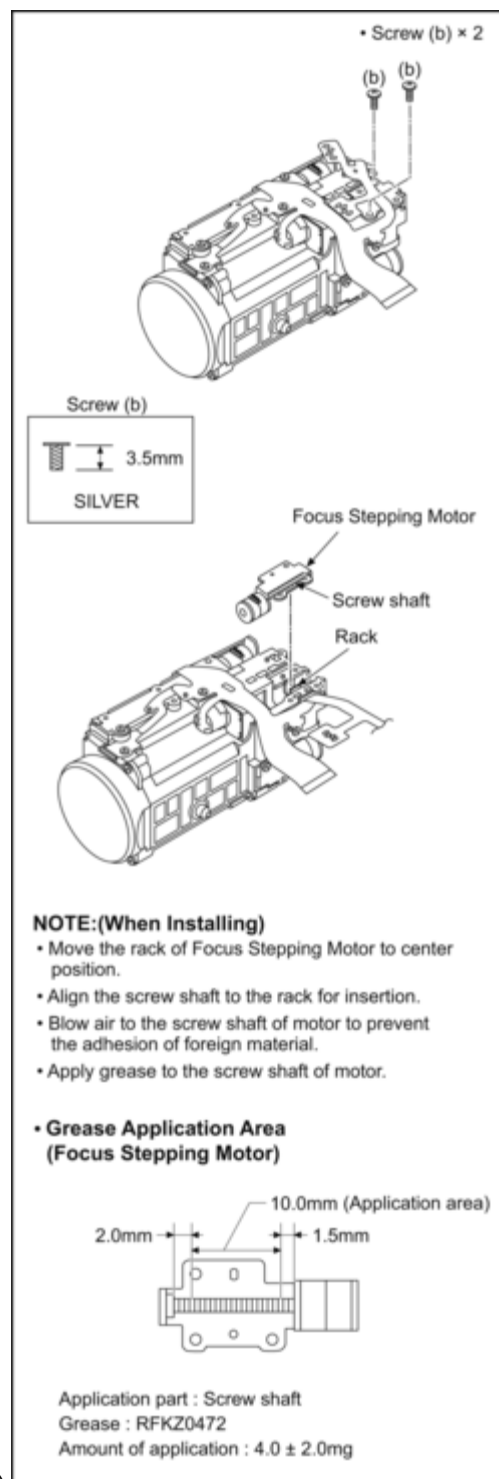


(Fig. D33)

8.3.17 Removal of the Focus Stepping Motor



(Fig. D34)



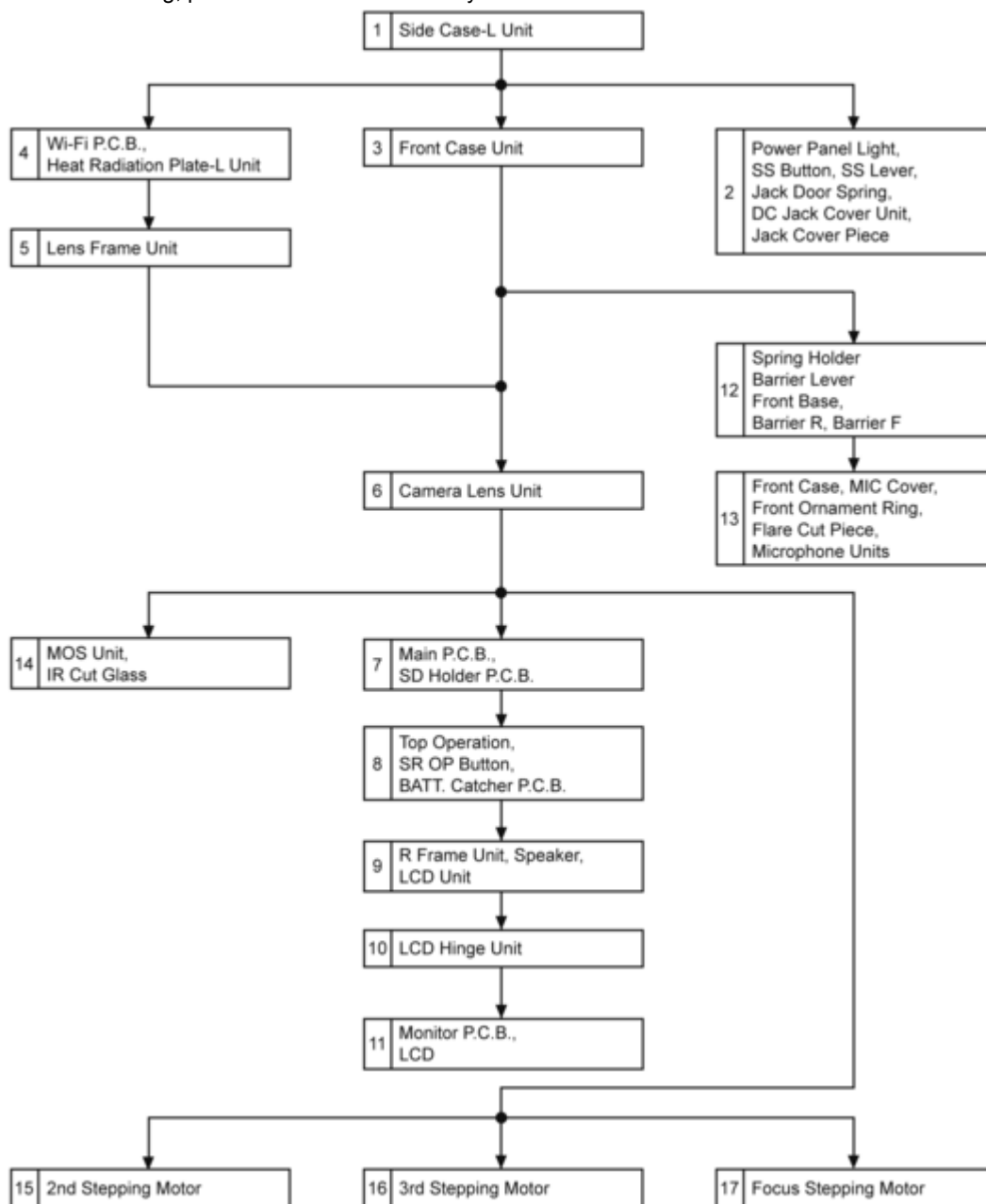
(Fig. D35)

8 Disassembly and Assembly Instructions

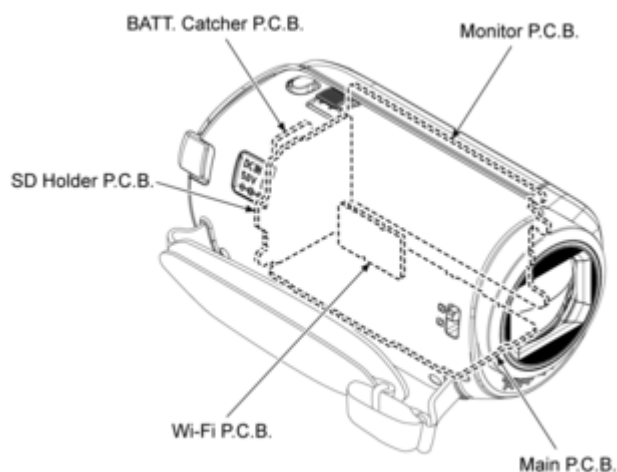
8.1 Disassembly Flow Chart for the Unit

This is a disassembling chart.

When assembling, perform this chart conversely.



8.2 PCB Location

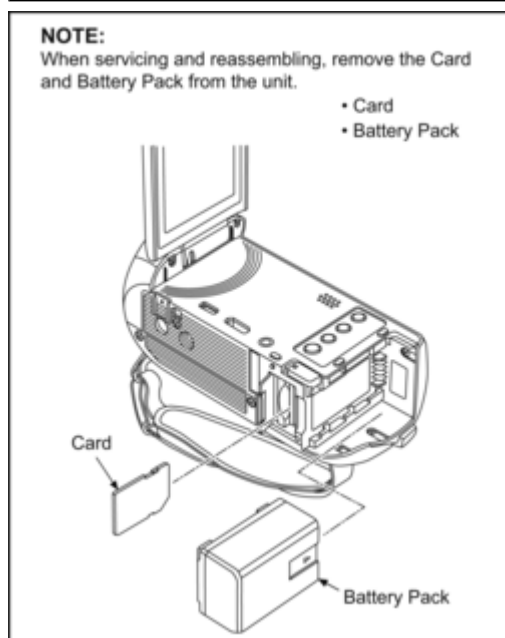


8.3 Disassembly Procedure for the Unit

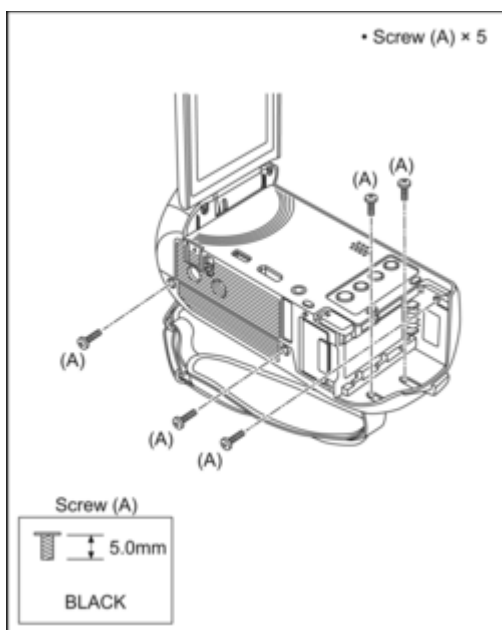
No.	Item	Fig.	Removal
1	Side Case-L Unit	(Fig. D1) (Fig. D2)	Screw (A) x 5
			Screw (B) x 1
			Locking tab x 5
			Projecting part x 1
			Side Case-L Unit
2	Power Panel Light, SS Button SS Lever , Jack Door Spring , DC Jack Cover Unit , Jack Cover Piece	(Fig. D3)	Power Panel Light
			Locking tab x 1
			SS Button
			Screw (C) x 1
			Locking tab x 2
			Locking tab x 2
			SS Lever
			Convex x 4
			Jack Door Spring
			DC Jack Cover Unit
			Jack Cover Piece
3	Front Case Unit	(Fig. D4)	Screw (D) x 1
			Screw (E) x 2
			FP6003 (Flex)
			Convex x 3
		(Fig. D5)	Front Case Unit
4	Wi-Fi P.C.B., Heat Radiation Plate-L Unit	(Fig. D6)	Flex A
			Screw (F) x 1
			Wi-Fi P.C.B.
			Heat Radiation Plate-L Unit
5	Lens Frame Unit	(Fig. D7)	Screw (G) x 1
			Screw (H) x 1
			P6003 (Connector)
			Screw (I) x 2
			Projecting part x 1
			Locking tab x 2
		(Fig. D8)	Lens Frame Unit
6	Camera Lens Unit	(Fig. D9)	FP301 (Flex)

			FP6008 (Flex)
		(Fig. D10)	Convex x 2
			Camera Lens Unit
7	Main P.C.B., SD Holder P.C.B.	(Fig. D11)	Screw (J) x 1
			Screw (K) x 1
			Screw (L) x 1
			Convex x 2
		(Fig. D12)	Heat Radiation Plate Unit
			Screw (M) x 1
			Screw (N) x 1
			P6401 (Connector)
			FP6402 (Flex)
			FP6010 (Flex)
		(Fig. D13)	Convex x 4
			SR Slide Lever
			Locking tab x 4
			Convex x 2
			Bottom Frame Unit
			PP6001 (Connector)
			SD Holder P.C.B.
			Main P.C.B.
8	Top Operation, SR OP Button, BATT. Catcher P.C.B.	(Fig. D14)	Locking tab x 1
			Hooking part x 1
			Top Operation
			Locking tab x 1
			Hooking part x 1
			Convex x 3
			SR OP Button
		(Fig. D15)	BATT. Catcher P.C.B.
9	R Frame Unit, Speaker, LCD Unit	(Fig. D16)	Screw (O) x 2
		(Fig. D17)	Locking tab x 4
			Convex x 1
			LCD Lever
			R Frame Unit
		(Fig. D18)	Convex x 4
			Hooking part x 4
			Speaker
			Convex x 2
			LCD Unit
10	LCD Hinge Unit	(Fig. D19)	Screw (P) x 2
			Screw (Q) x 2
			Locking tab x 8
			LCD Case (T) Unit
			FP902 (Flex)
		(Fig. D20)	Projecting part x 1
			Convex x 1
			LCD Hinge Unit
			Screw (R) x 1
			Convex x 2
			Projecting part x 1
			LCD Frame A
11	Monitor P.C.B., LCD	(Fig. D21)	FP904 (Flex)
			FP905 (Flex)
			Locking tab x 1
			Hooking part x 1

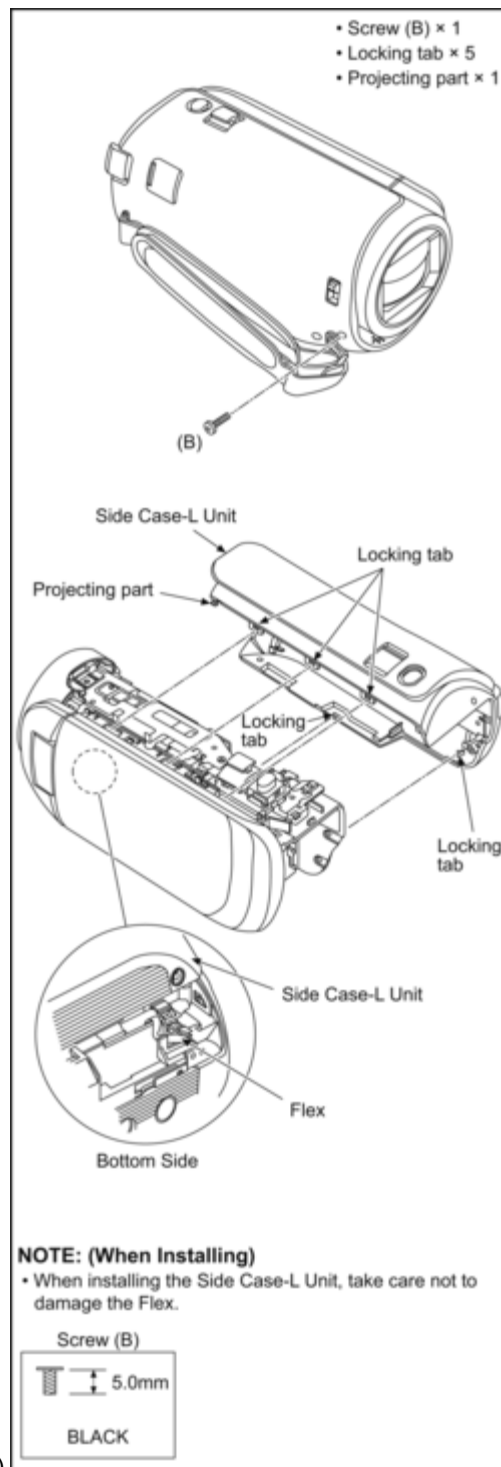
			Monitor P.C.B.
		(Fig. D22)	Locking tab x 4
			LCD
			TP Spacer
			LCD Frame B
			LCD Case (B) Unit
		(Fig. D23)	Reflection Sheet
			Light Guide Plate
			Diffusion Sheet
			Prism Sheet B
			Prism Sheet A
			LGP Holder
12	Spring Holder, Barrier Lever, Front Base, Barrier R, Barrier F	(Fig. D24)	Projecting part x 3
			Lens Damper Rubber
			Screw (S) x 4
			Convex x 3
		(Fig. D25)	Screw (T) x 1
			Spring Holder
			Barrier Spring
			Locking tab x 2
			Barrier Lever
			Convex x 1
			Front Base
			Barrier R
			Barrier F
13	Front Case, MIC Cover, Front Ornament Ring, Flare Cut Piece, Microphone Units	(Fig. D26)	Screw (U) x 1
			Hooking part x 3
			Flare Cut Piece
			Front Ornament Ring
			MIC Cover
			Convex x 1
			MIC Sponge-F
			MIC Sponge-M
			Microphone Units
			MIC Sponge-R
			Front Case
14	MOS Unit, IR Cut Glass	(Fig. D27)	Screw (V) x 3
			MOS Unit
			MOS Cushion
			IR Cut Glass
		(Fig. D28)	NOTE: (When Installing
		(Fig. D29)	the MOS Unit)
15	2nd Stepping Motor	(Fig. D30)	Solder x 16 points
			Screw (W) x 3
			Convex x 5
		(Fig. D31)	Screw (X) x 2
			Convex x 4
			2nd Stepping Motor
16	3rd Stepping Motor	(Fig. D32)	Solder x 4 points
		(Fig. D33)	Screw (Z) x 2
			3rd Stepping Motor
17	Focus Stepping Motor	(Fig. D34)	Solder x 8 points
			Screw (a) x 1
			Convex x 1
		(Fig. D35)	Screw (b) x 2



8.3.1 Removal of the Side Case-L Unit

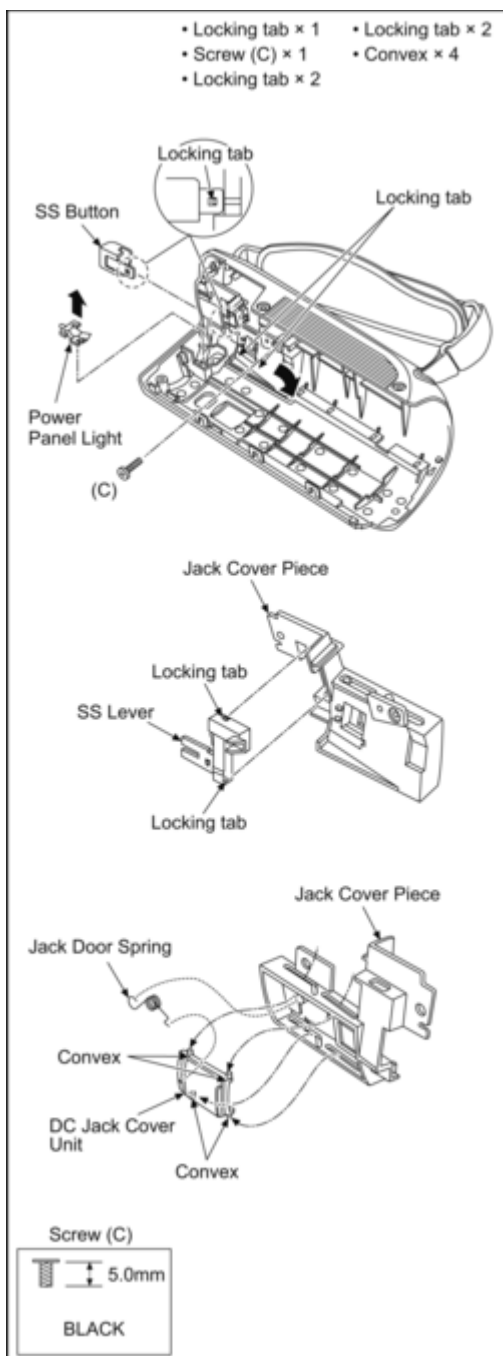


(Fig. D1)



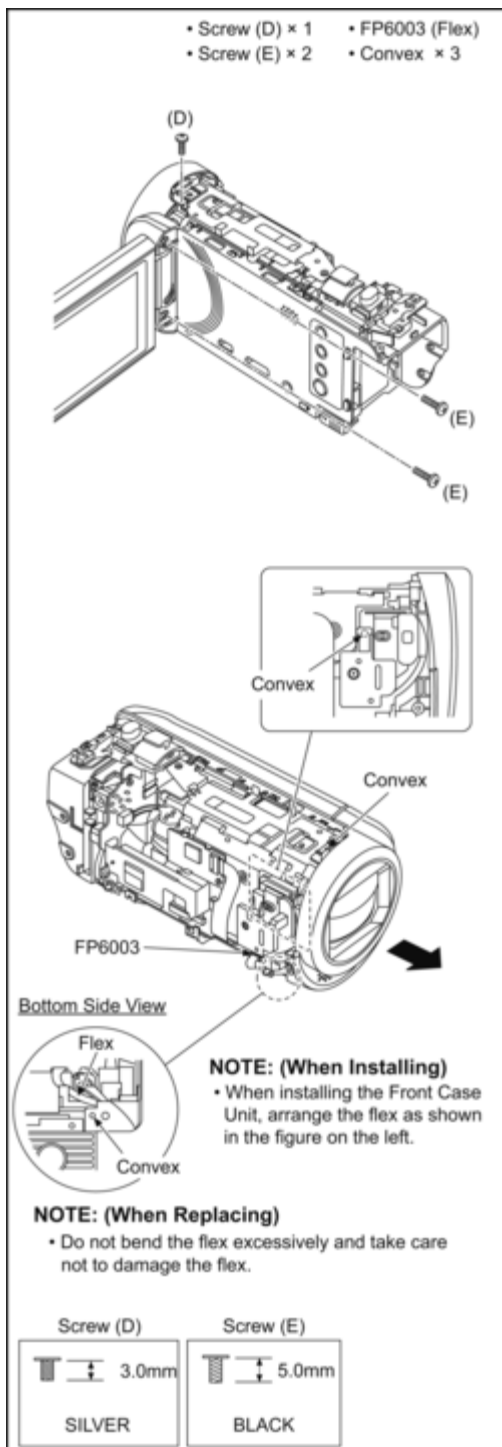
(Fig. D2)

8.3.2 Removal of the Power Panel Light, SS Button, SS Lever, Jack Door Spring, DC Jack Cover Unit, Jack Cover Piece

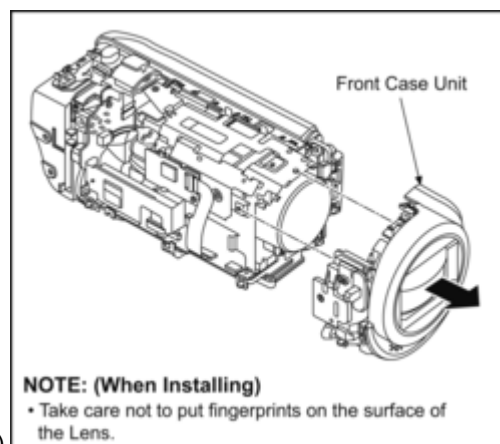


(Fig. D3)

8.3.3 Removal of the Front Case Unit

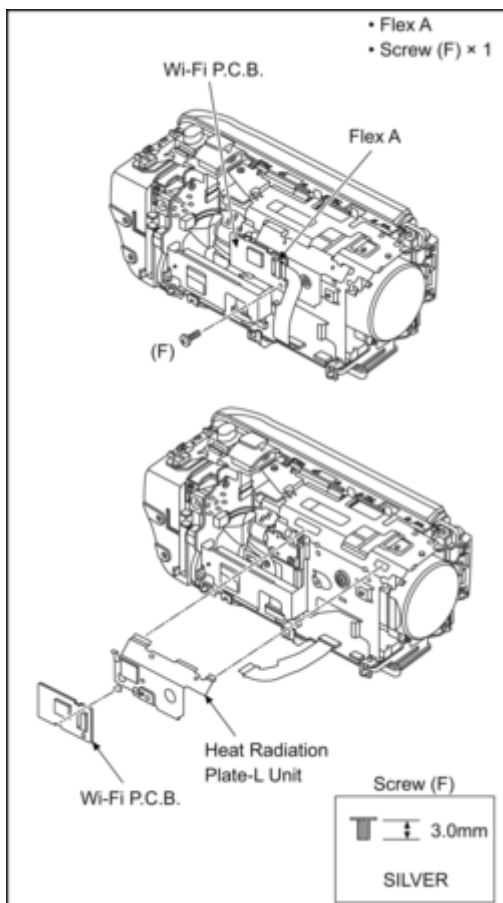


(Fig. D4)



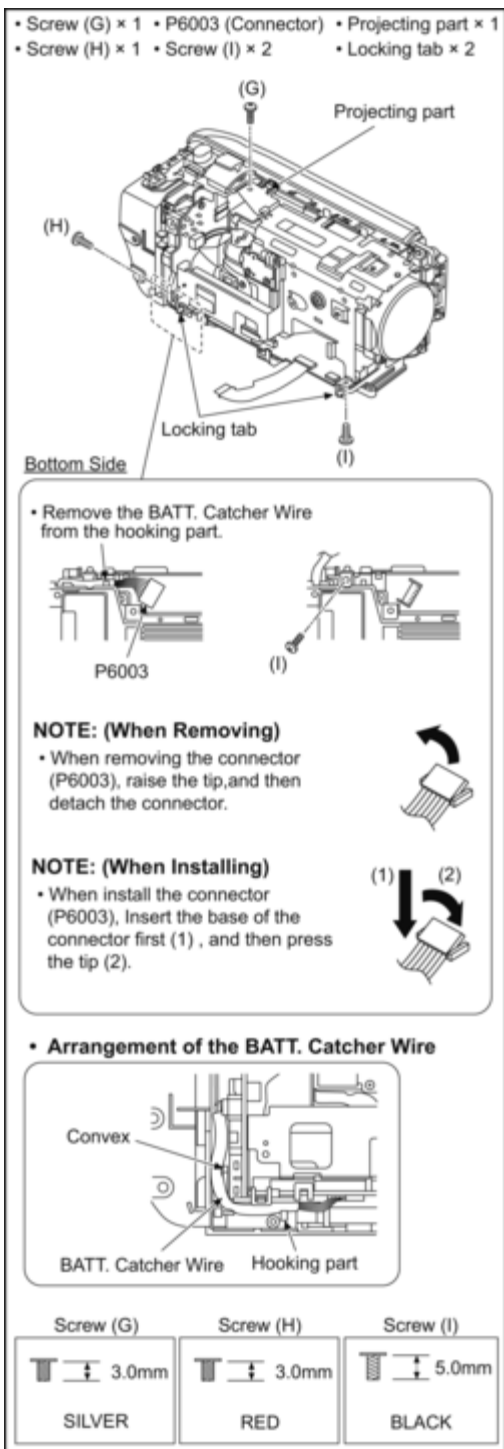
(Fig. D5)

8.3.4 Removal of the Wi-Fi P.C.B., Heat Radiation Plate-L Unit

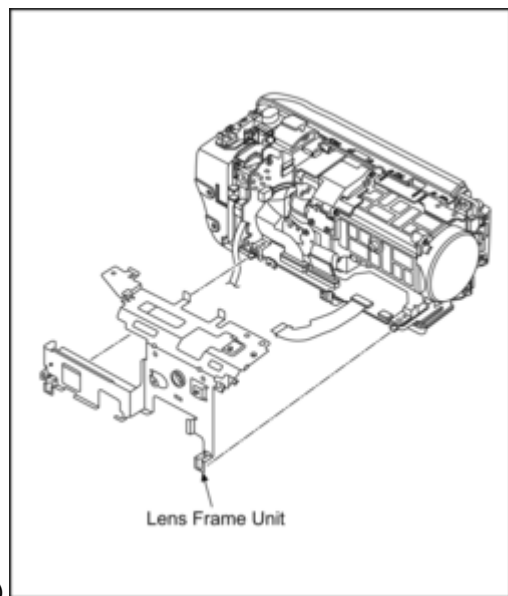


(Fig. D6)

8.3.5 Removal of the Lens Frame Unit

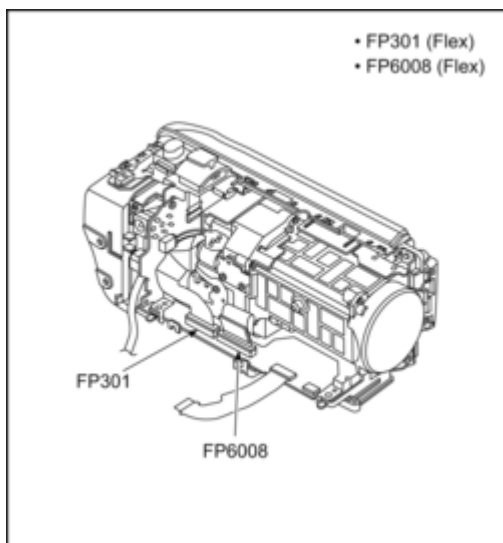


(Fig. D7)

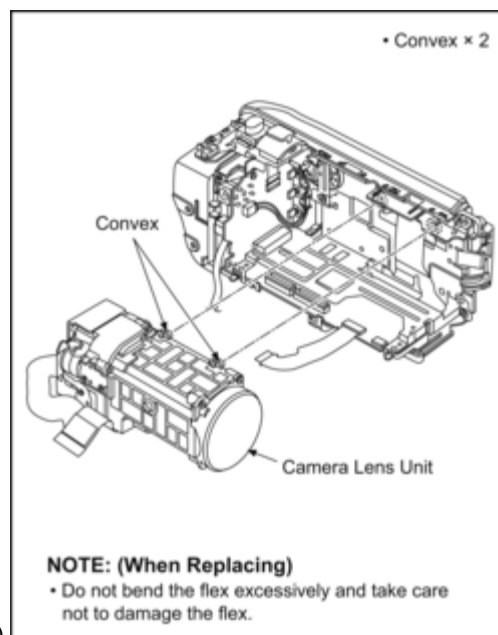


(Fig. D8)

8.3.6 Removal of the Camera Lens Unit

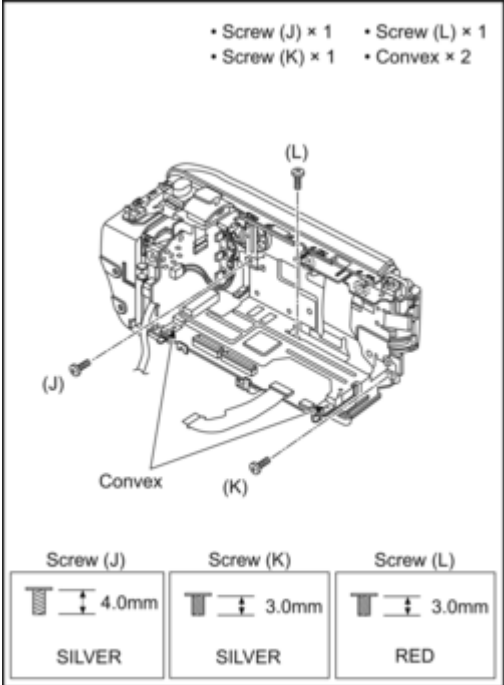


(Fig. D9)

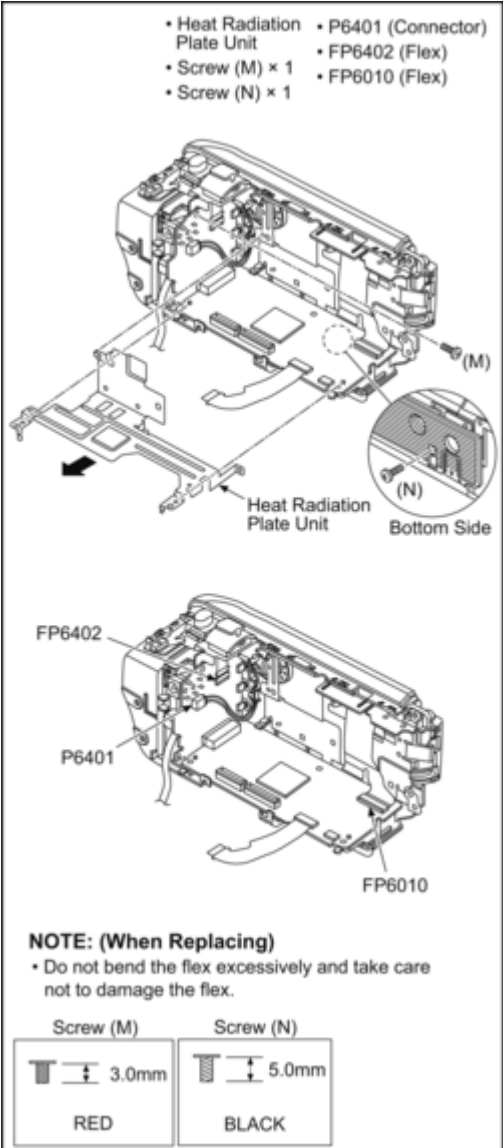


(Fig. D10)

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

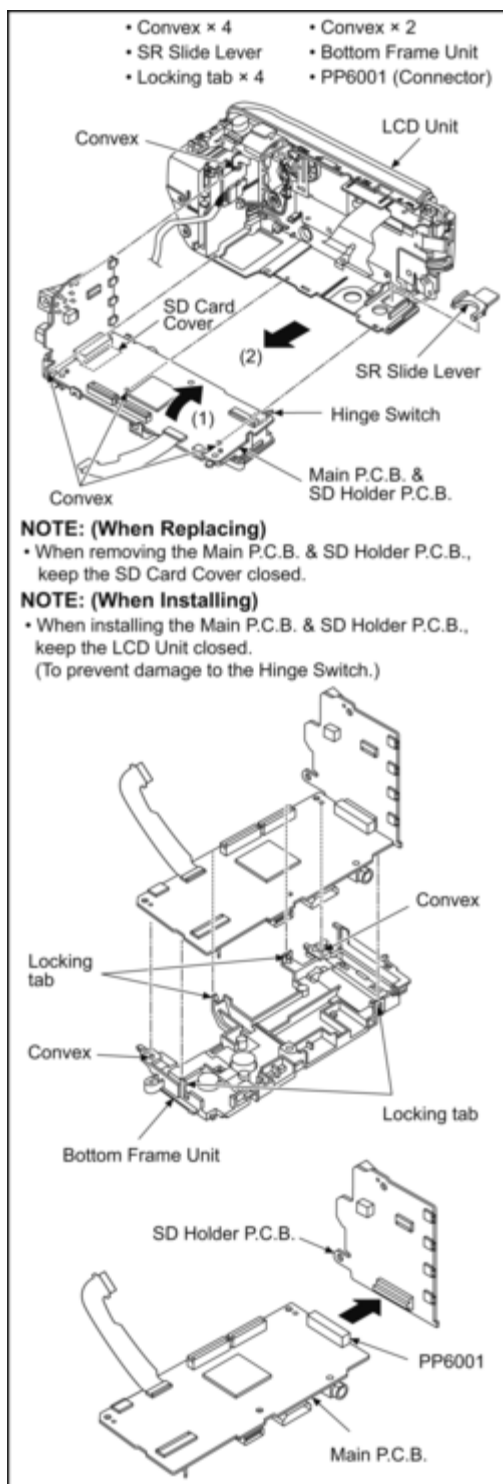


(Fig. D11)



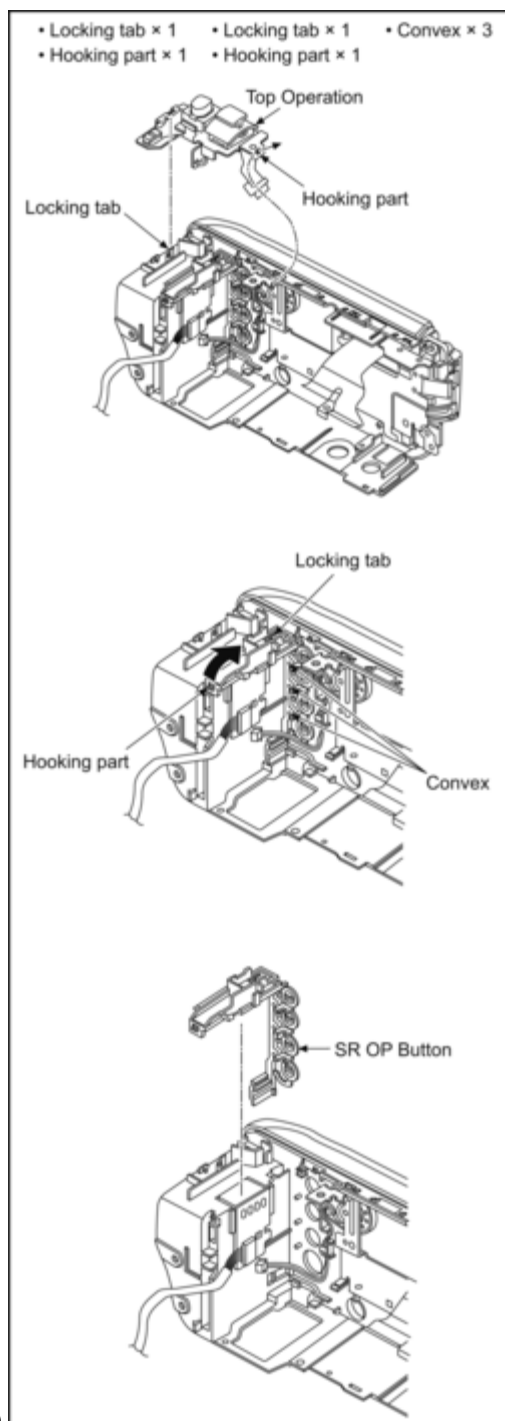
(Fig. D12)

(Fig.

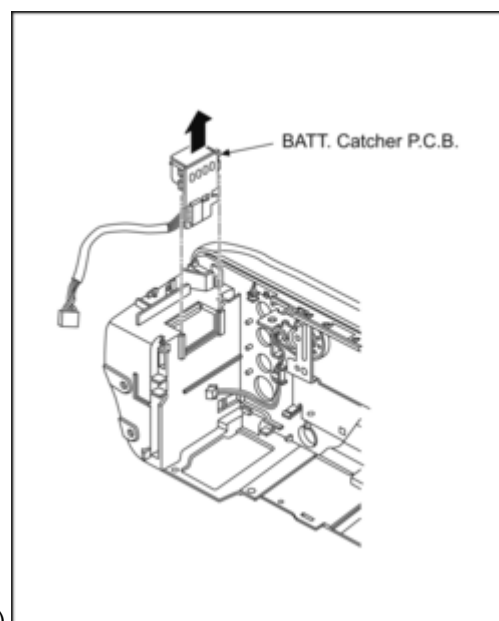


D13)

8.3.8 Removal of the Top Operation, SR OP Button, BATT. Catcher P.C.B.

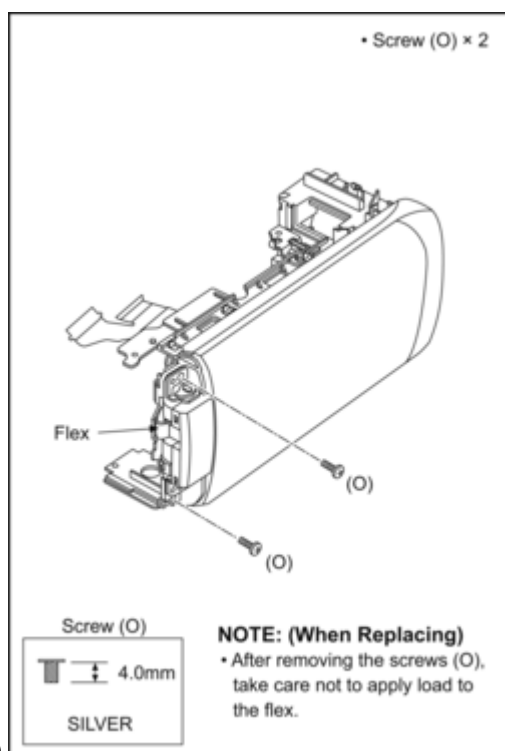


(Fig. D14)

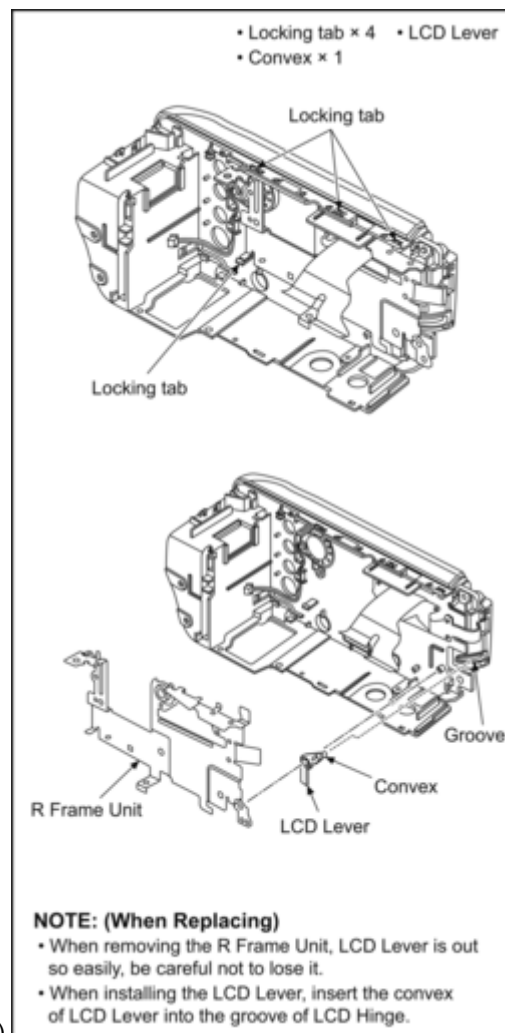


(Fig. D15)

8.3.9 Removal of the R Frame Unit, Speaker, LCD Unit

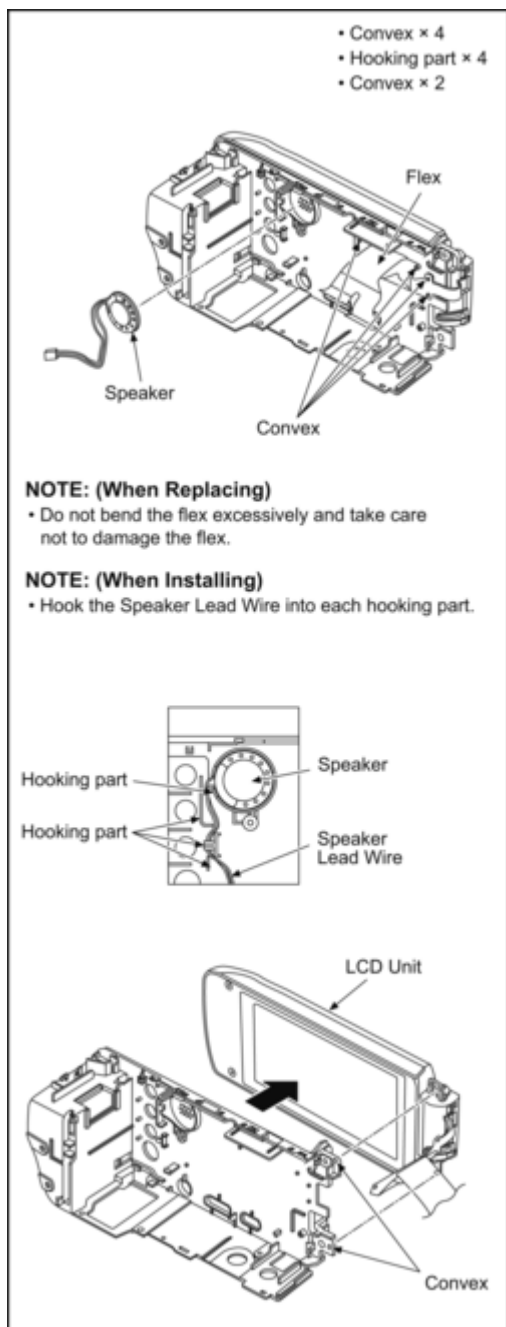


(Fig. D16)



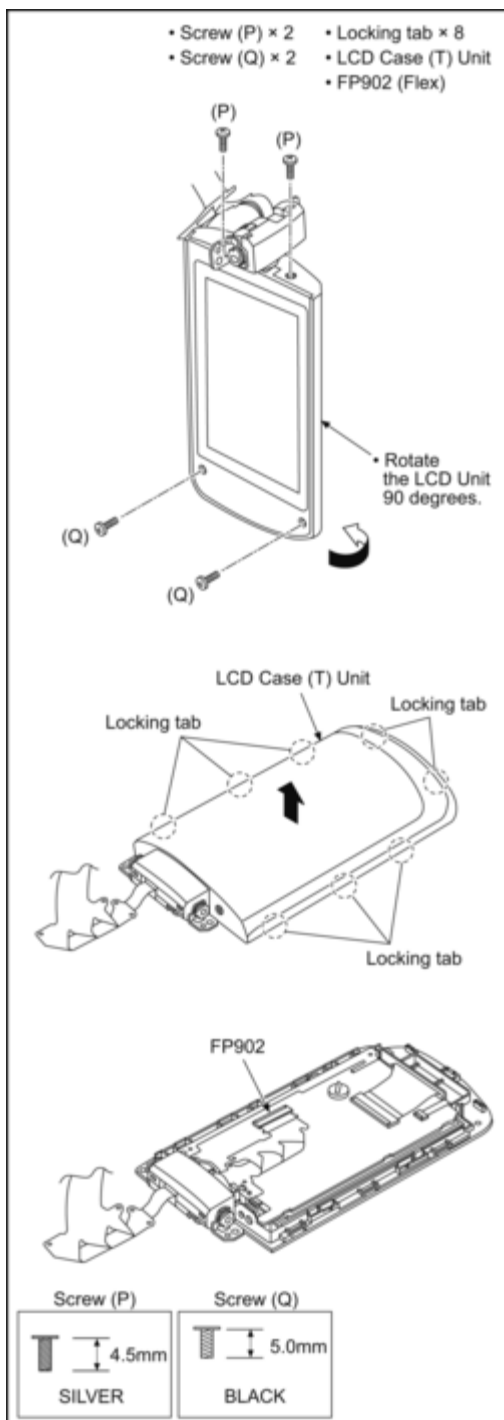
(Fig. D17)

(Fig.

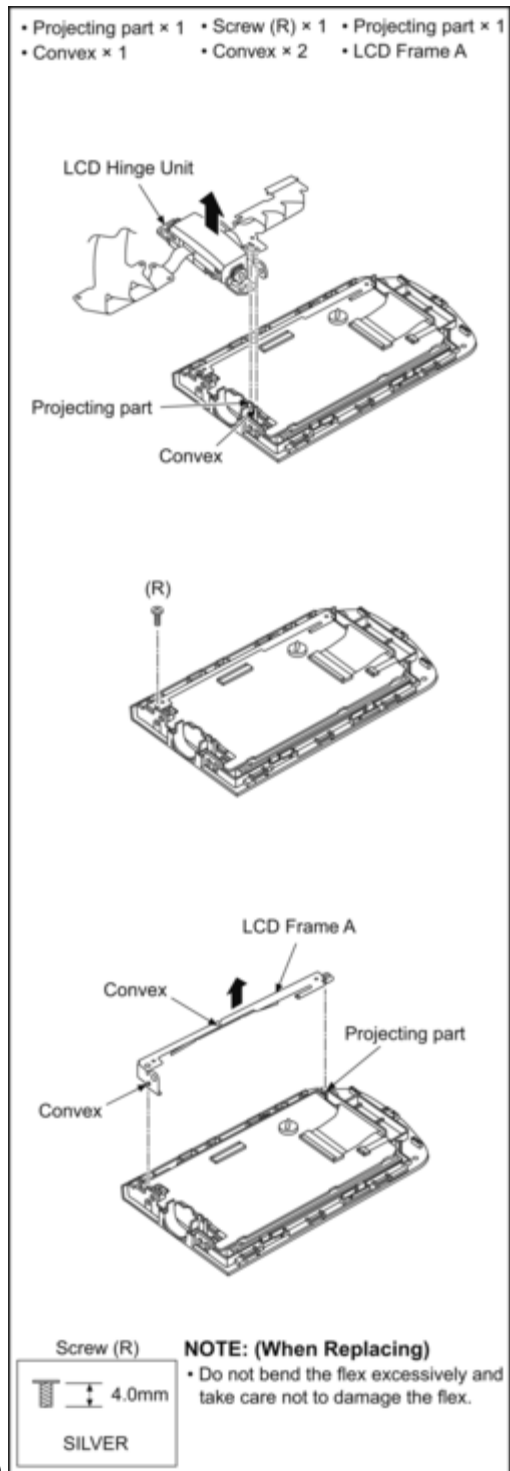


D18)

8.3.10 Removal of the LCD Hinge Unit

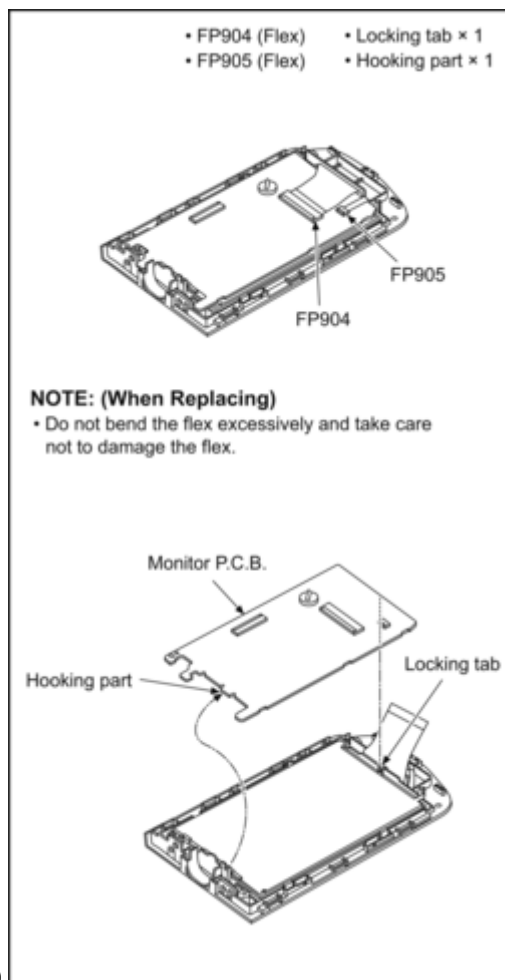


(Fig. D19)



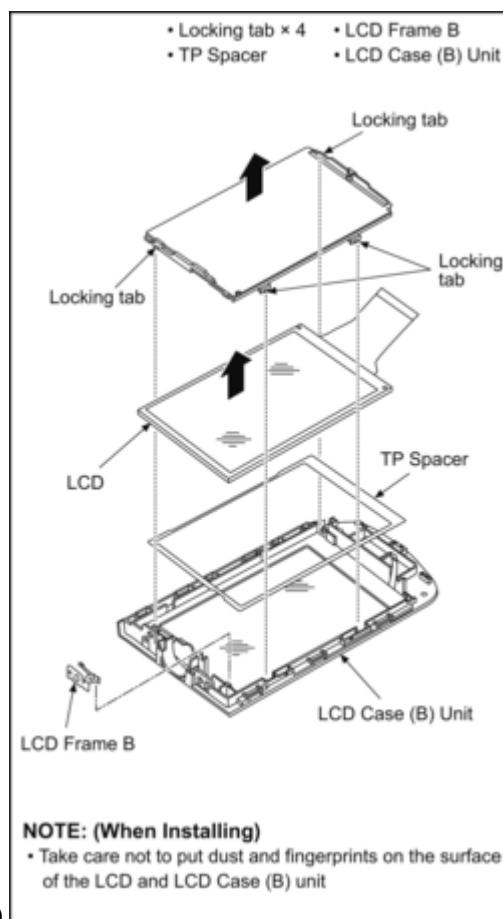
(Fig. D20)

8.3.11 Removal of the Monitor P.C.B., LCD

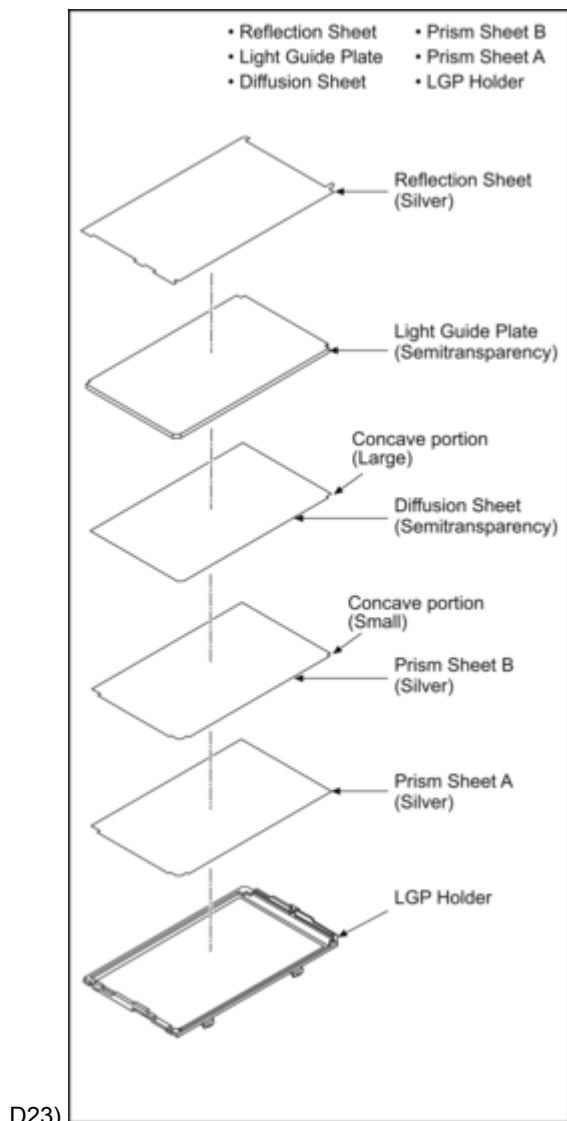


(Fig. D21)

(Fig. D22)

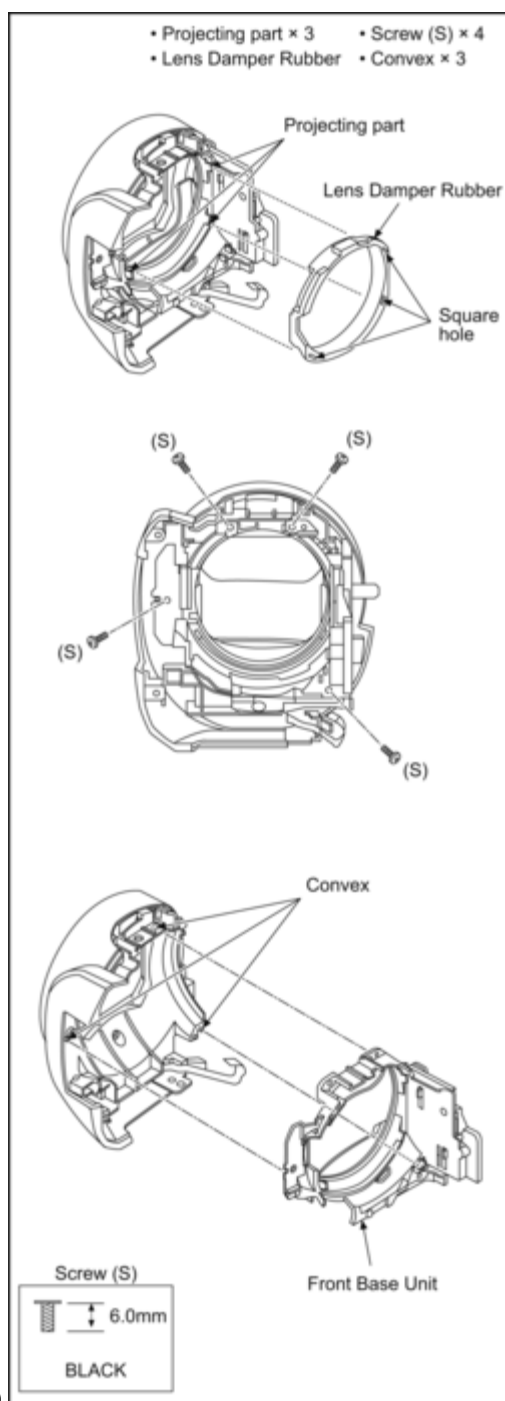


(Fig.

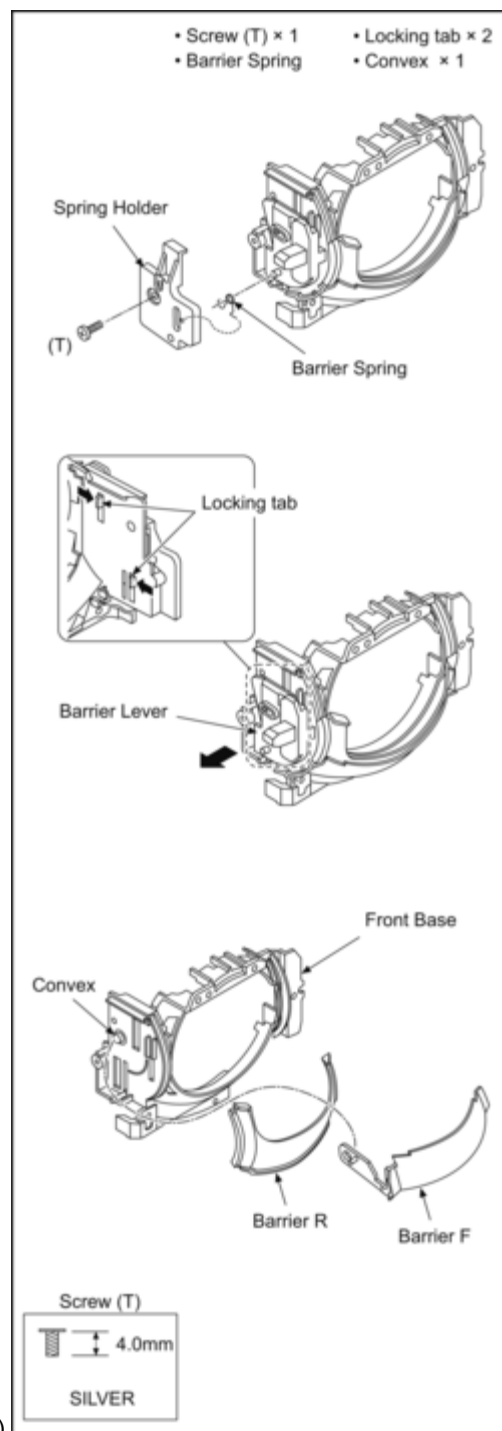


D23)

8.3.12 Removal of the Spring Holder, Barrier Lever, Front Base, Barrier R, Barrier F

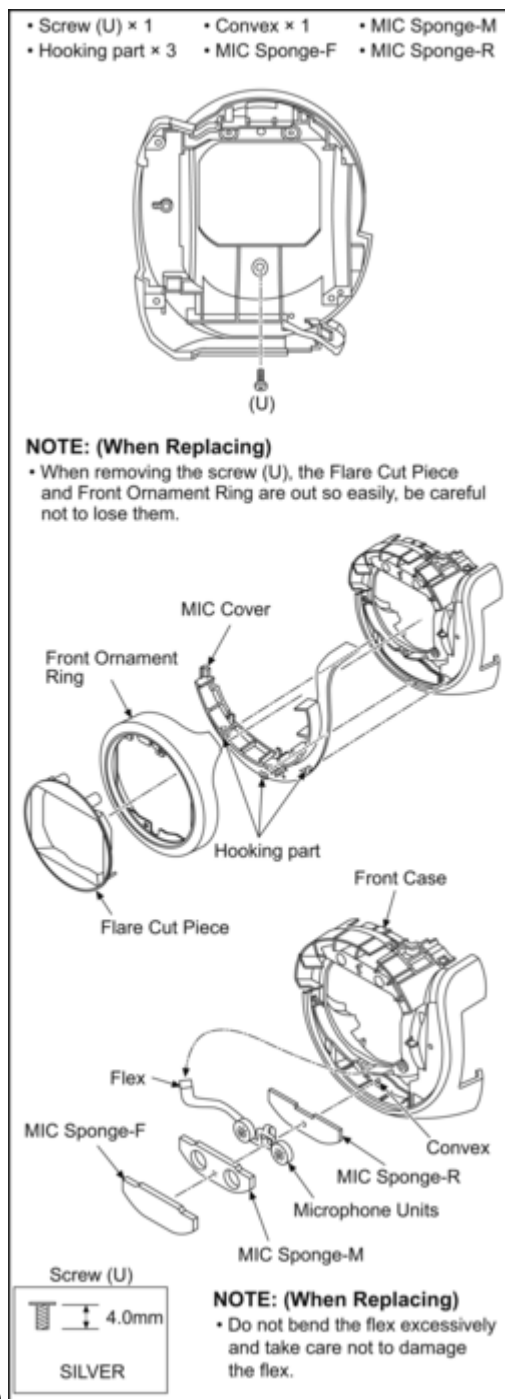


(Fig. D24)



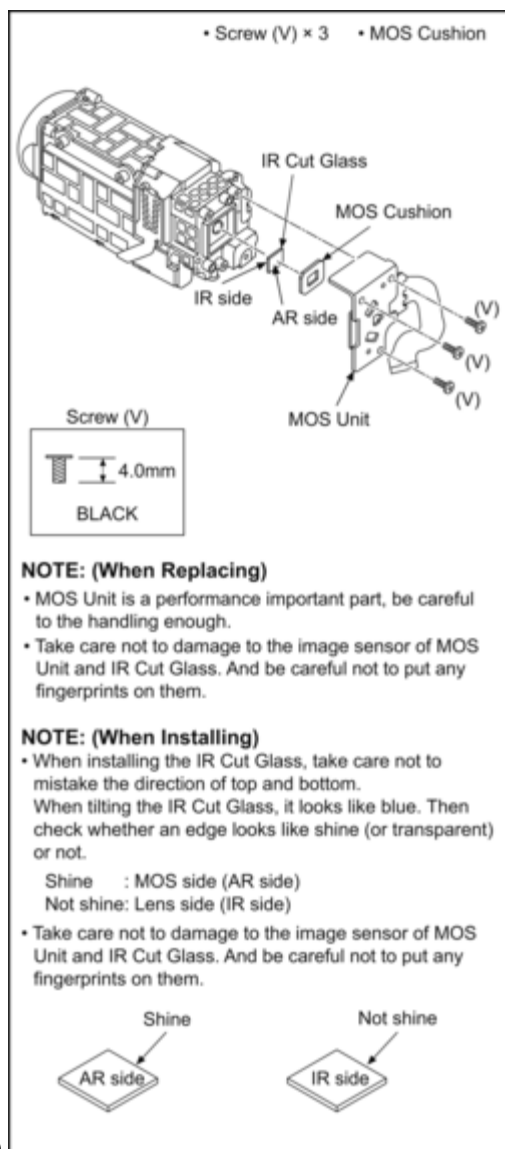
(Fig. D25)

8.3.13 Removal of the Front Case, MIC Cover, Front Ornament Ring, Flare Cut Piece, Microphone Units

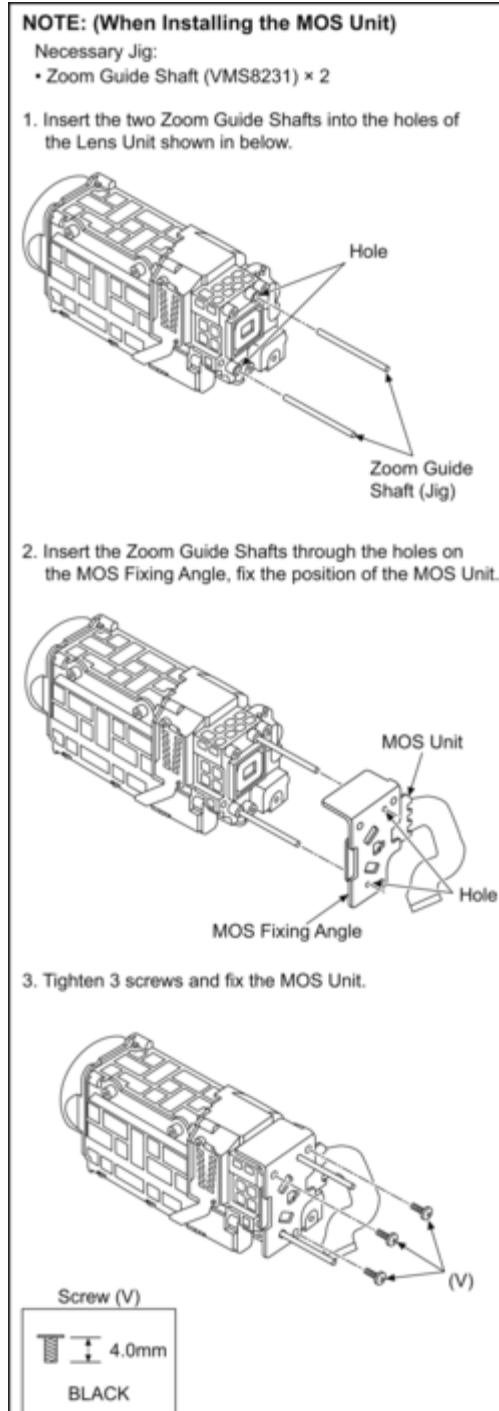


(Fig. D26)

8.3.14 Removal of the MOS Unit, IR Cut Glass



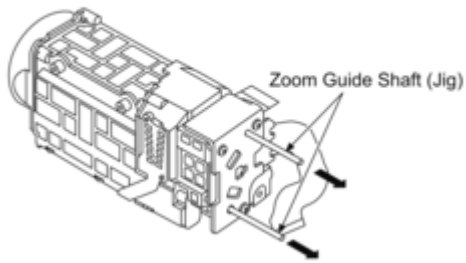
(Fig. D27)



(Fig. D28)

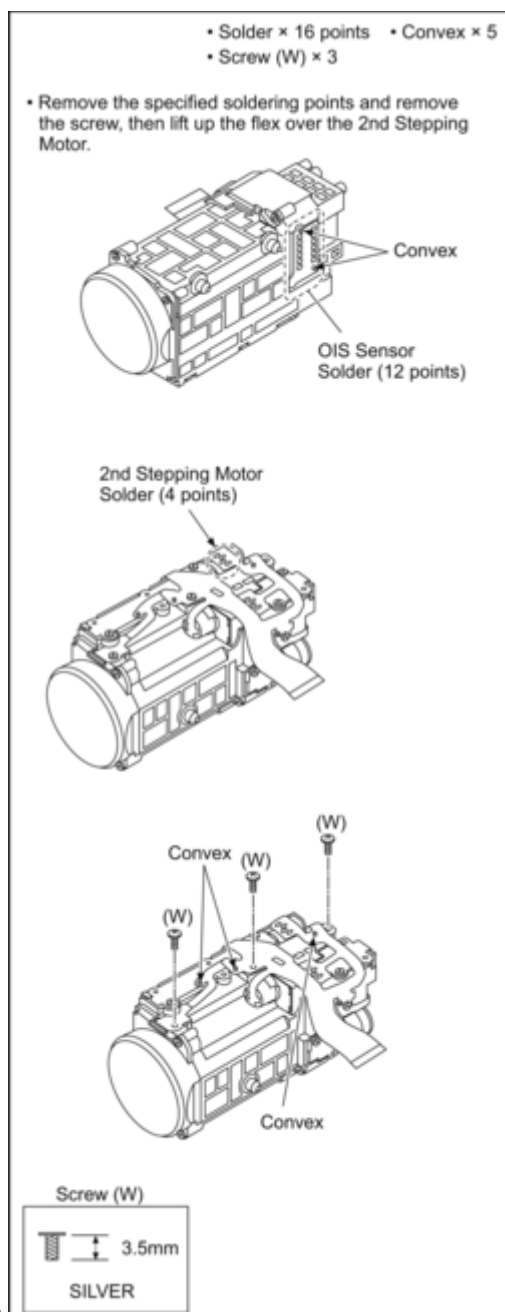
(Fig.

4. Pull out both Zoom Guide Shafts.

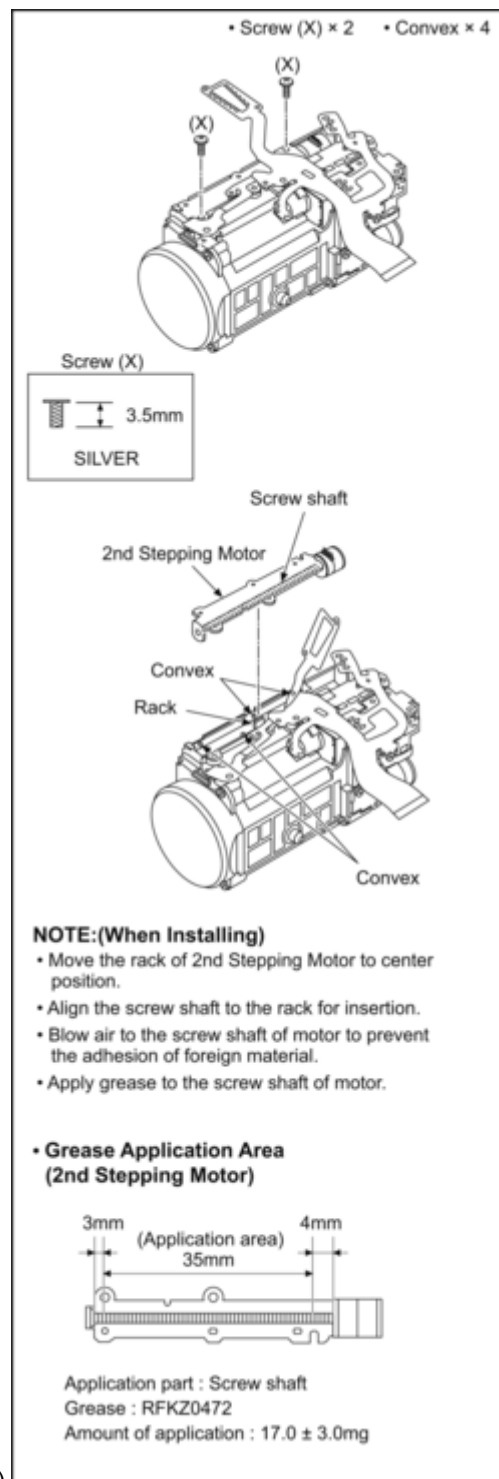


D29)

8.3.15 Removal of the 2nd Stepping Motor

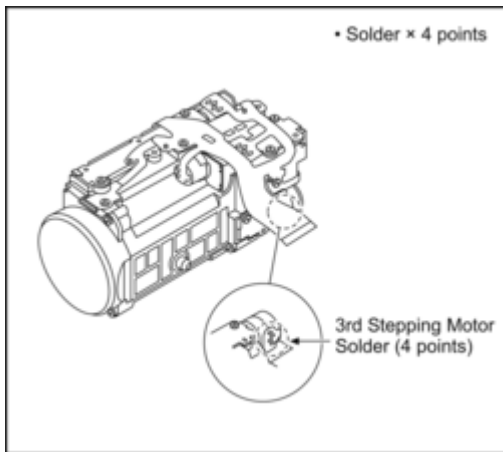


(Fig. D30)

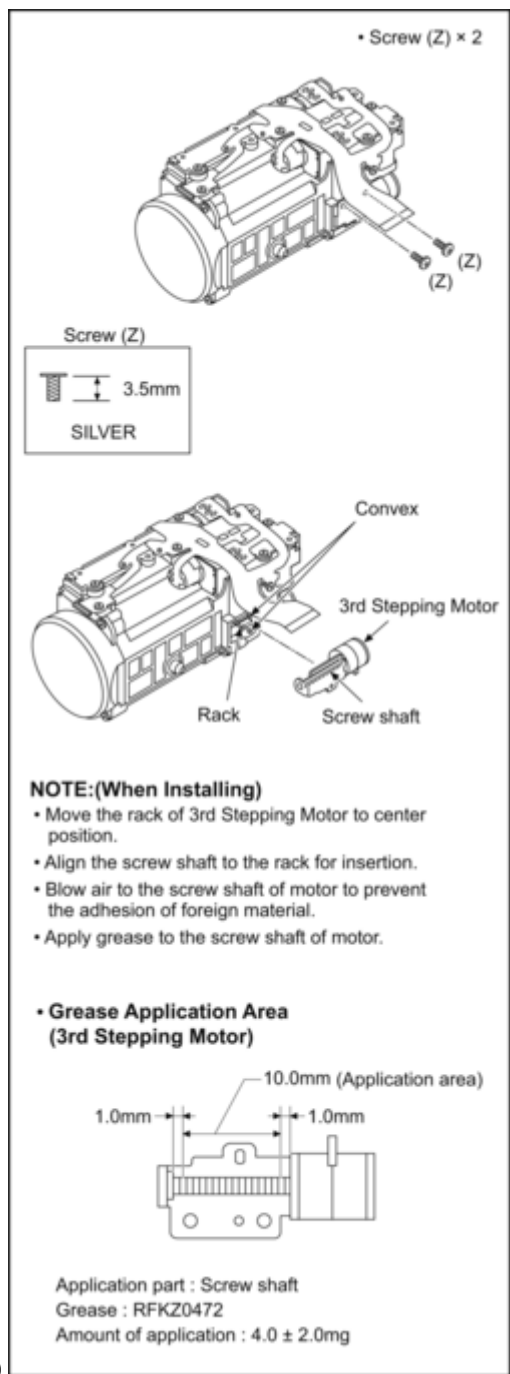


(Fig. D31)

8.3.16 Removal of the 3rd Stepping Motor

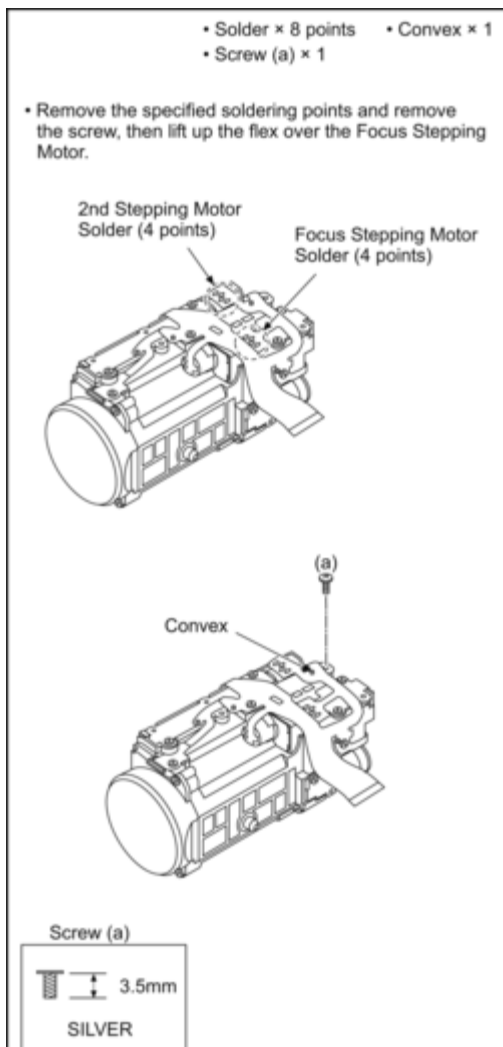


(Fig. D32)

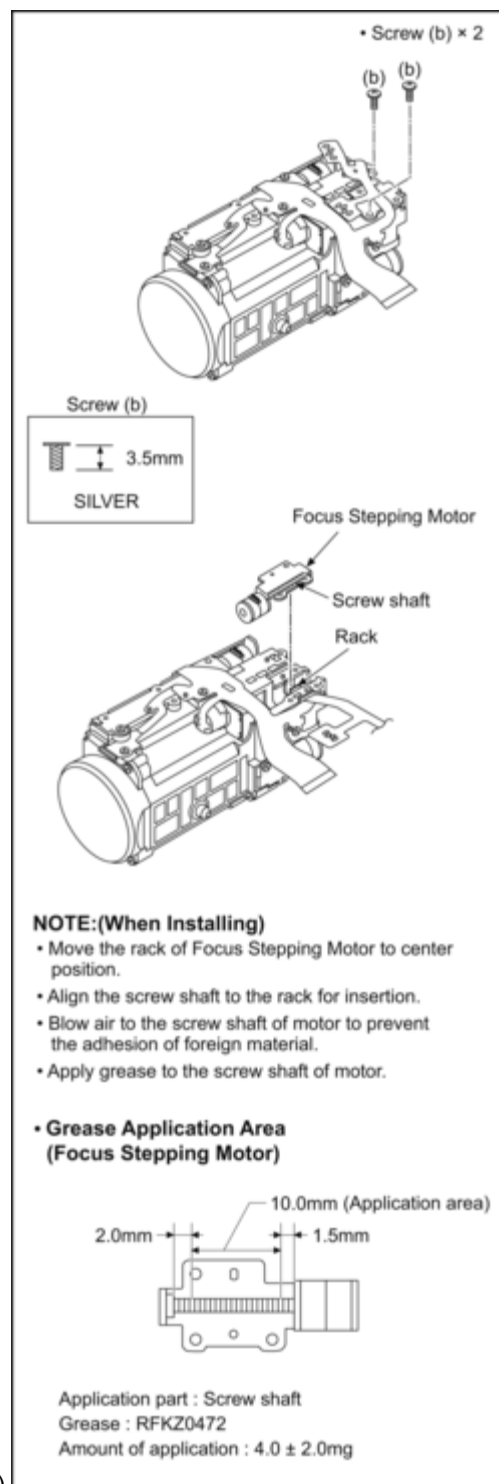


(Fig. D33)

8.3.17 Removal of the Focus Stepping Motor



(Fig. D34)



(Fig. D35)

9 Measurements and Adjustments

9.1 Electric Adjustment

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

Figure of connection

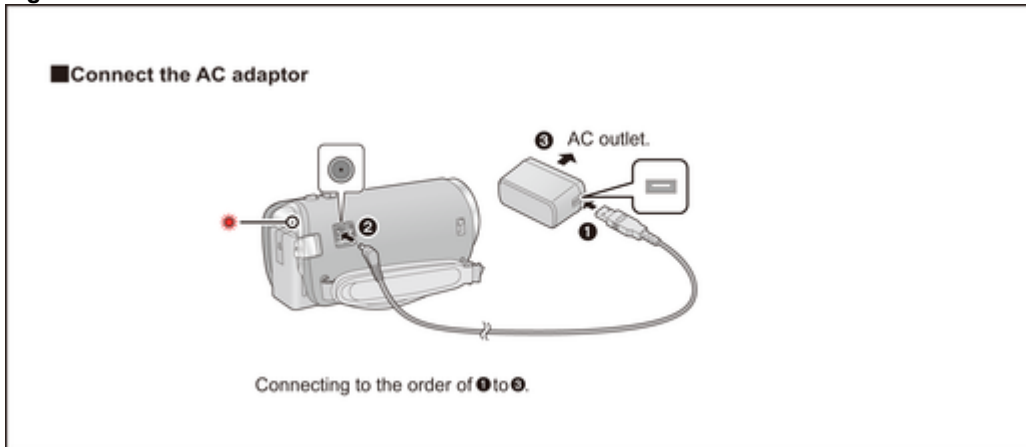
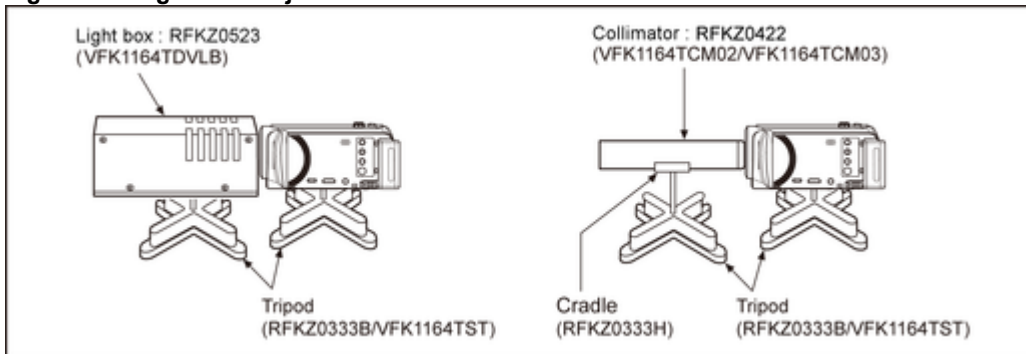


Figure of image when adjustment



Part Number of jig

1. Basic Jig

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

2. Optical Jig for Camera Adjustment

Item	Part number	Remarks
Light box	VFK1164TDVLB/RFKZ0523*	Need external power supply: 12V $\pm$ 0.1V /1.8A or over
Collimator with focus chart	VFK1164TCM02/VFK1164TCM03/RFKZ0422*	Same as DSC
CC filter	3100K/5100K VFK1164CC10G	Need 2 set. For indoor/outdoor white balance adjutment

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

* RFKZ0523 and RFKZ0422 (same as DSC) are recommended.

[Level Shot Adjustment Chart]

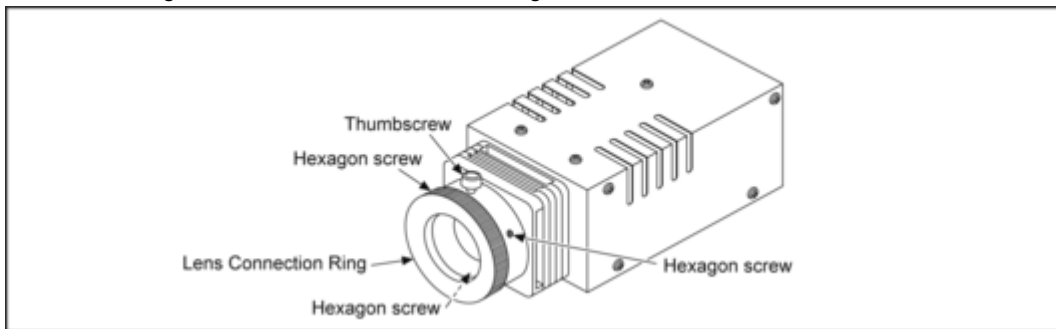


9.1.1 About Light Box

When using VFK1164TDVLB Light Box

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

* RFKZ0523 Light Box has no lens connection ring.

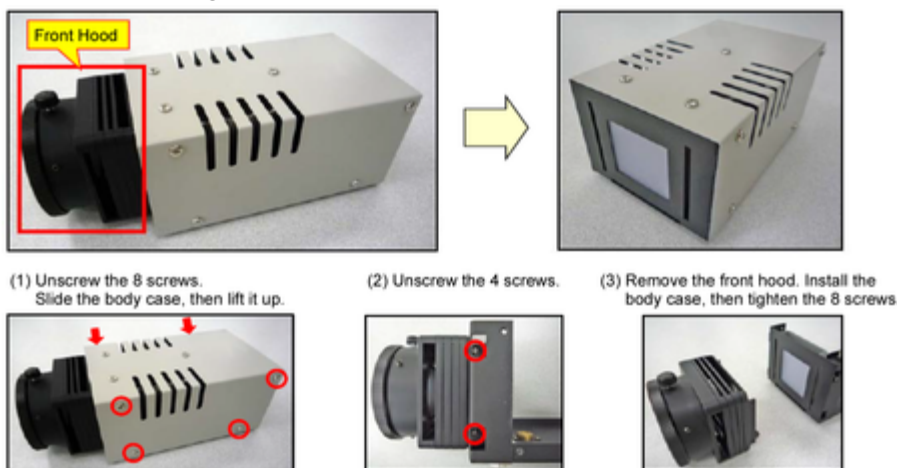


How to remove the Front Hood

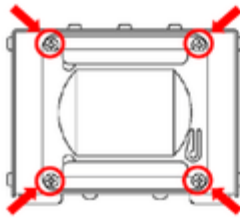
In order to utilize maximum of the diffusing surface of light box, some adjustment items need the distance between diffusing surface of light box and camera body becomes several centimeters.

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

[For VFK1164TDVLB Light Box]



[For RFKZ0523 Light Box]



Unscrew the 4 screws, then remove the front hood.



9.1.2 Adjustment Items

Adjustment item as follows.

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

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

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

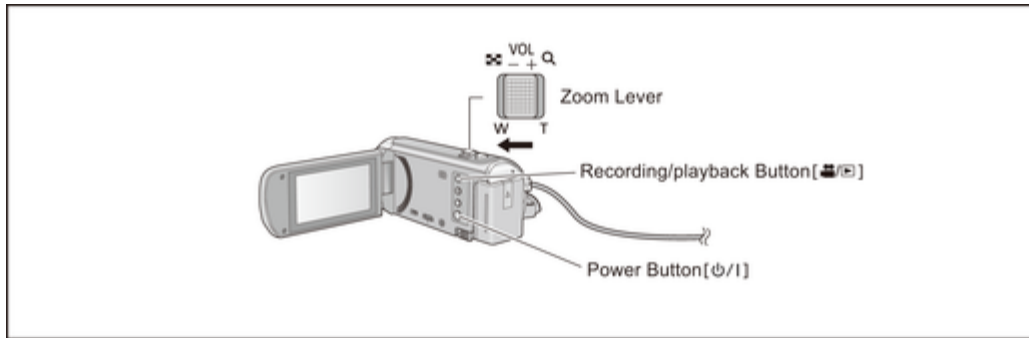
9.1.3 Adjustment Procedure

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

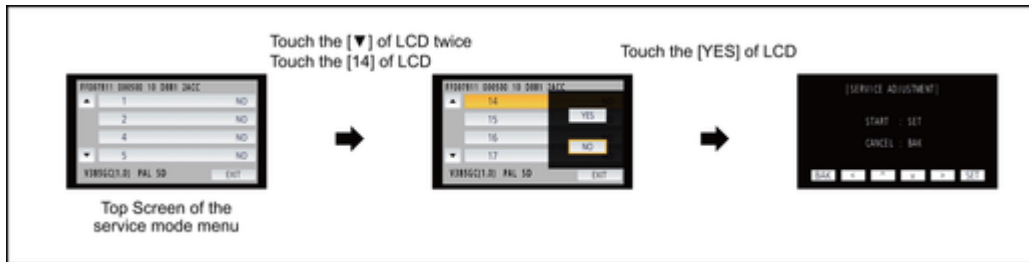
“Touch Panel Calibration” is performed using 16 of service mode menu and “Factory Setting” is performed using 1 of service mode menu. Refer to “6 Service mode” and “10 Factory Setting”.

[Execute adjustment function for service]

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



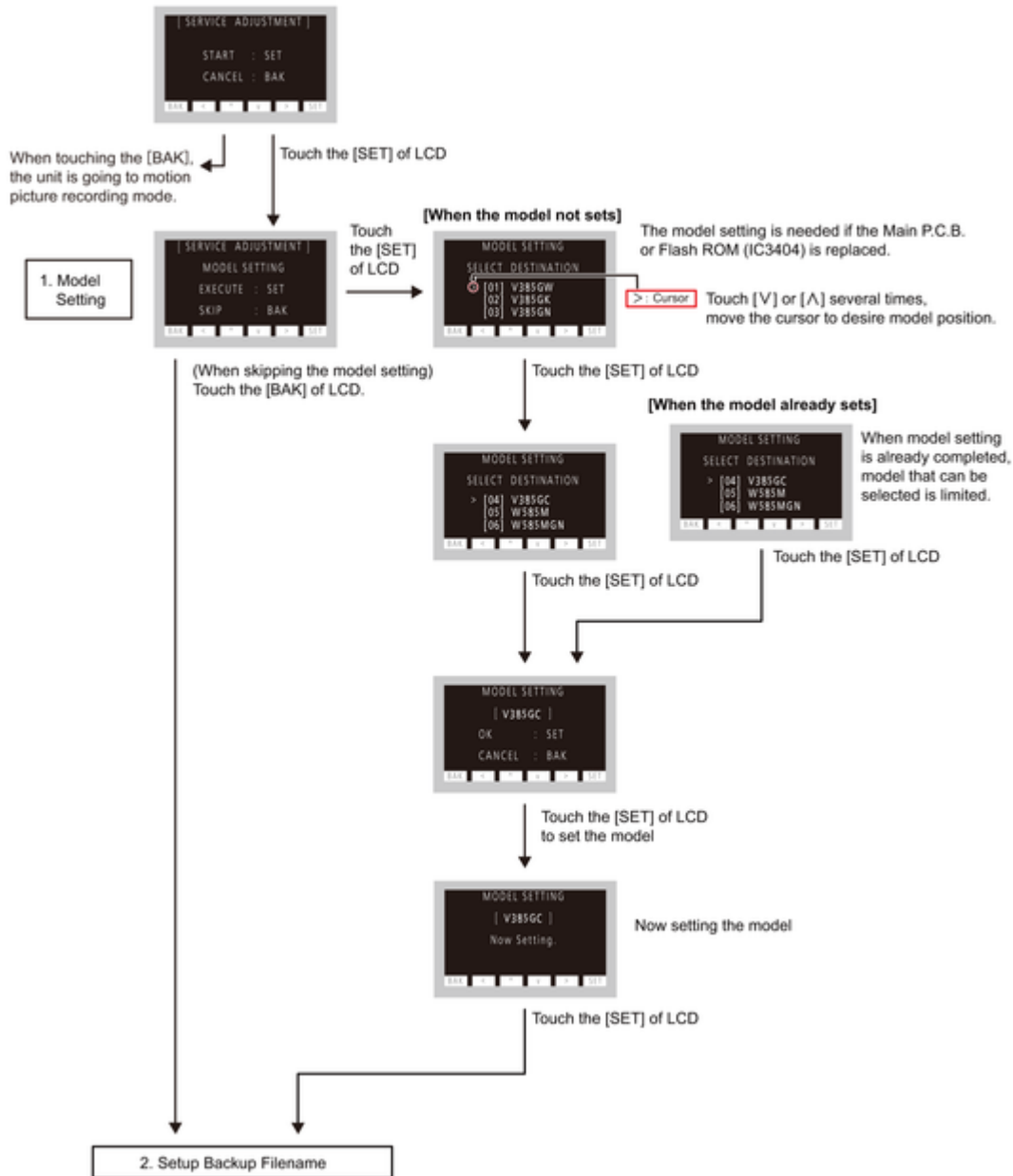
2. Touch the ▼ twice then touch the [14] of LCD.
3. Touch the [YES] of LCD.

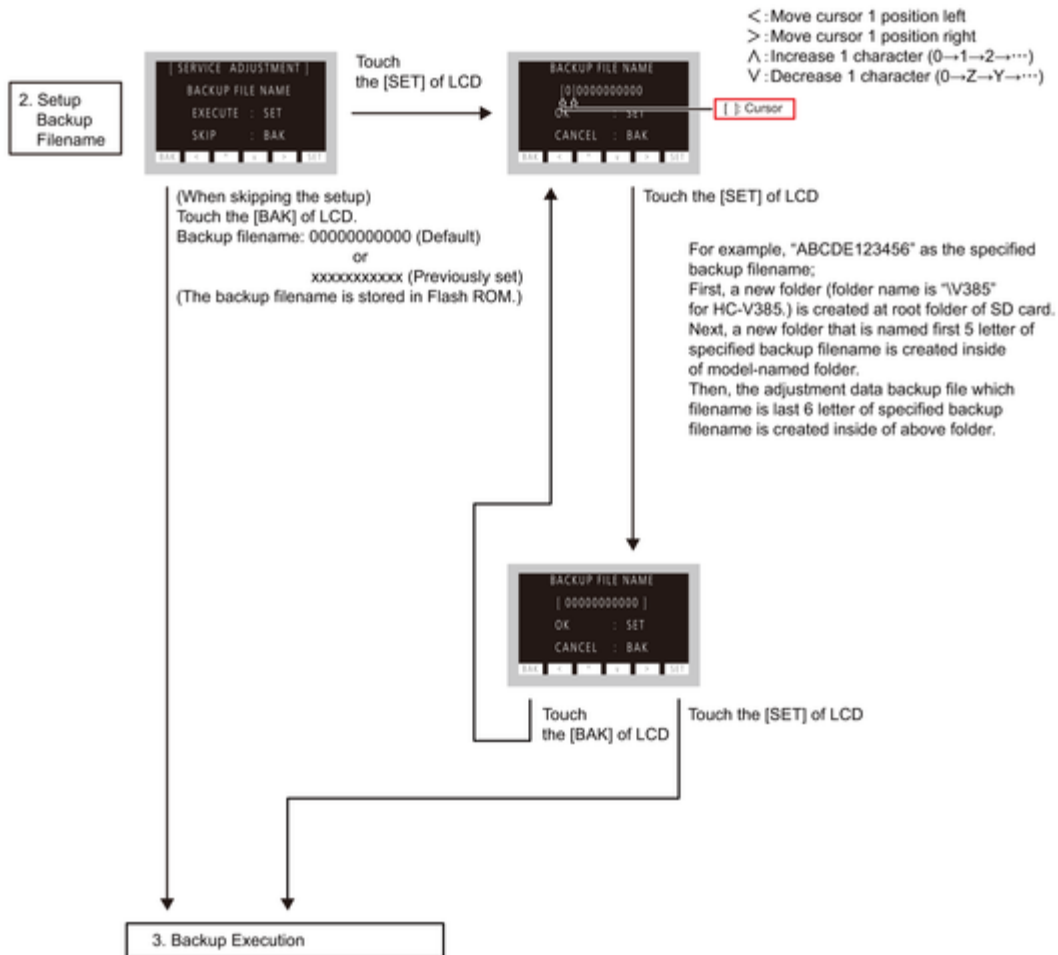


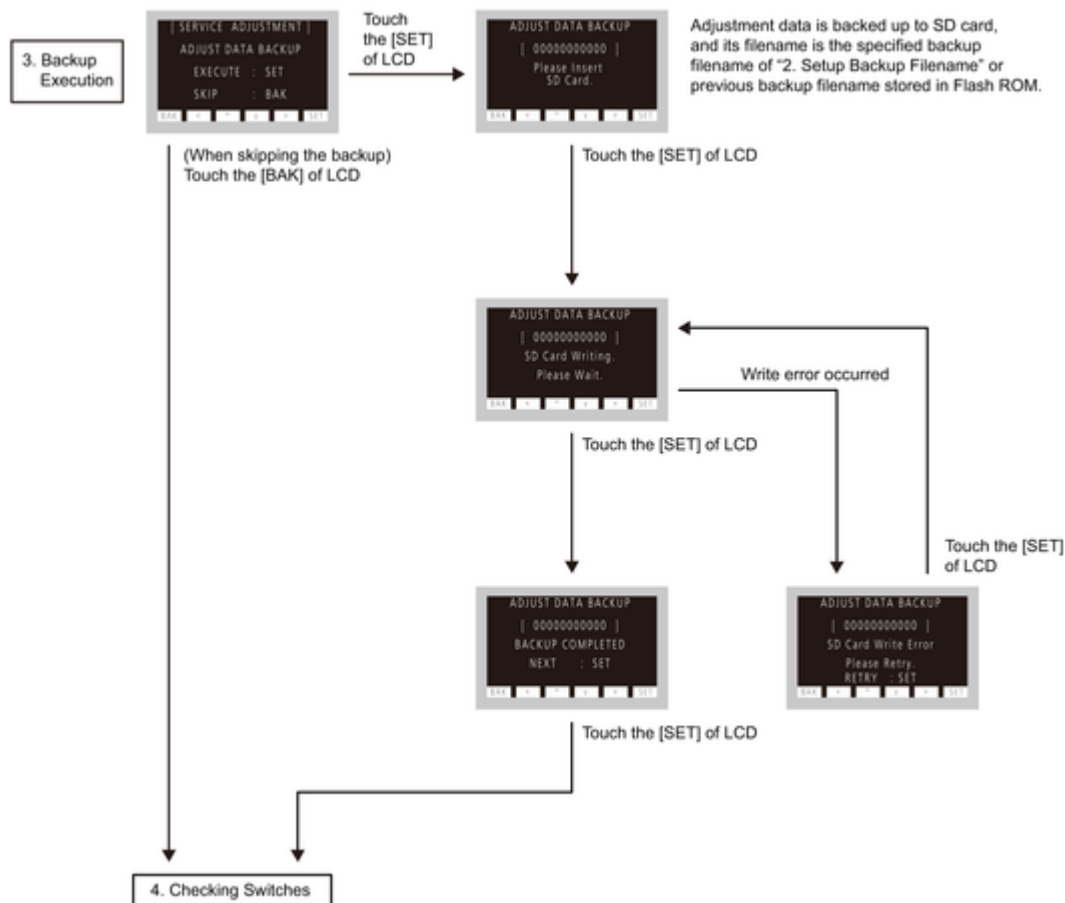
[Adjustment Procedure]

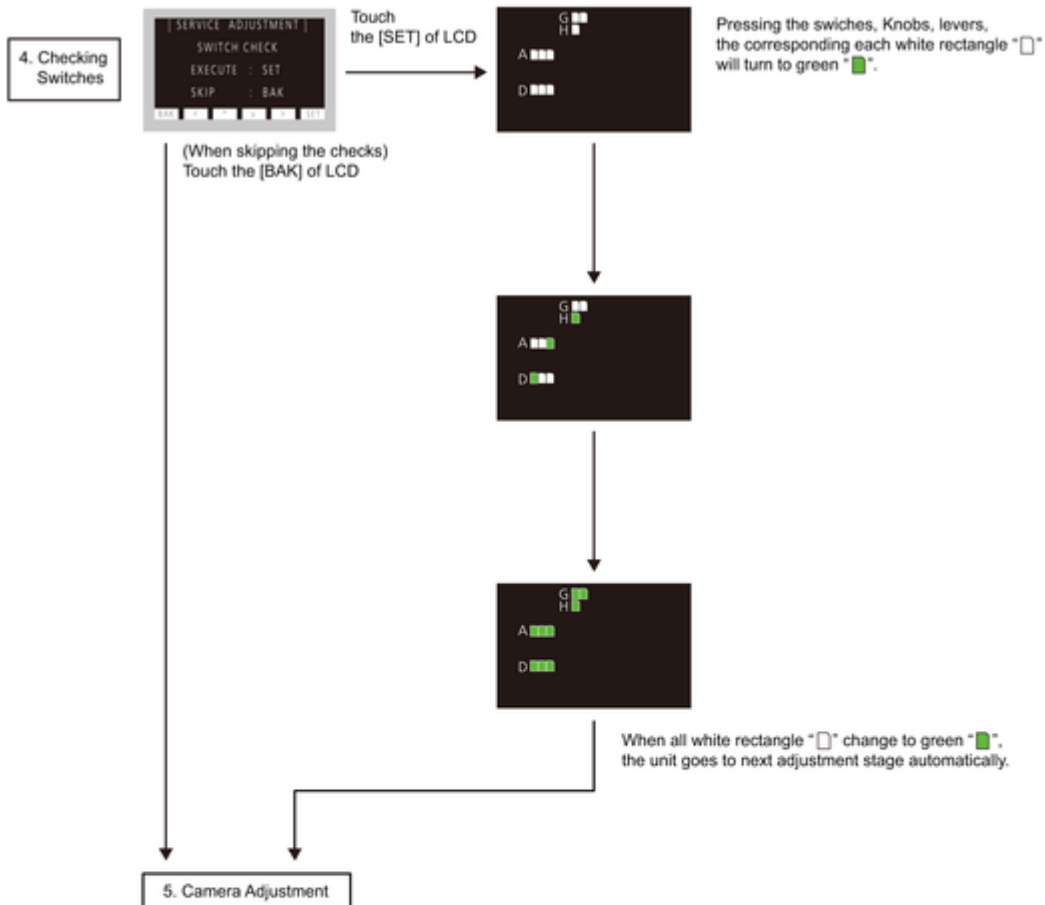
Adjustments and settings are performed following order:

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

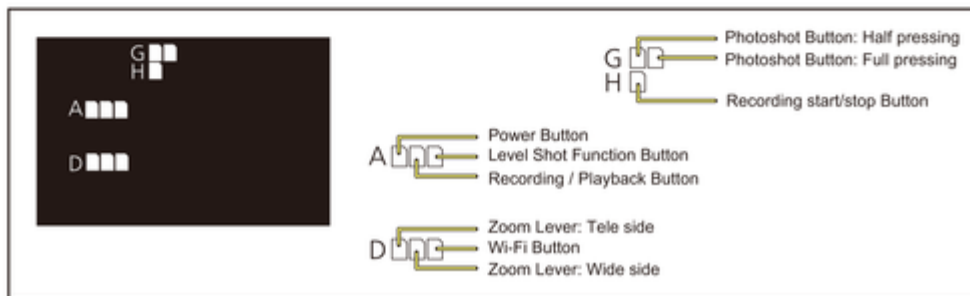


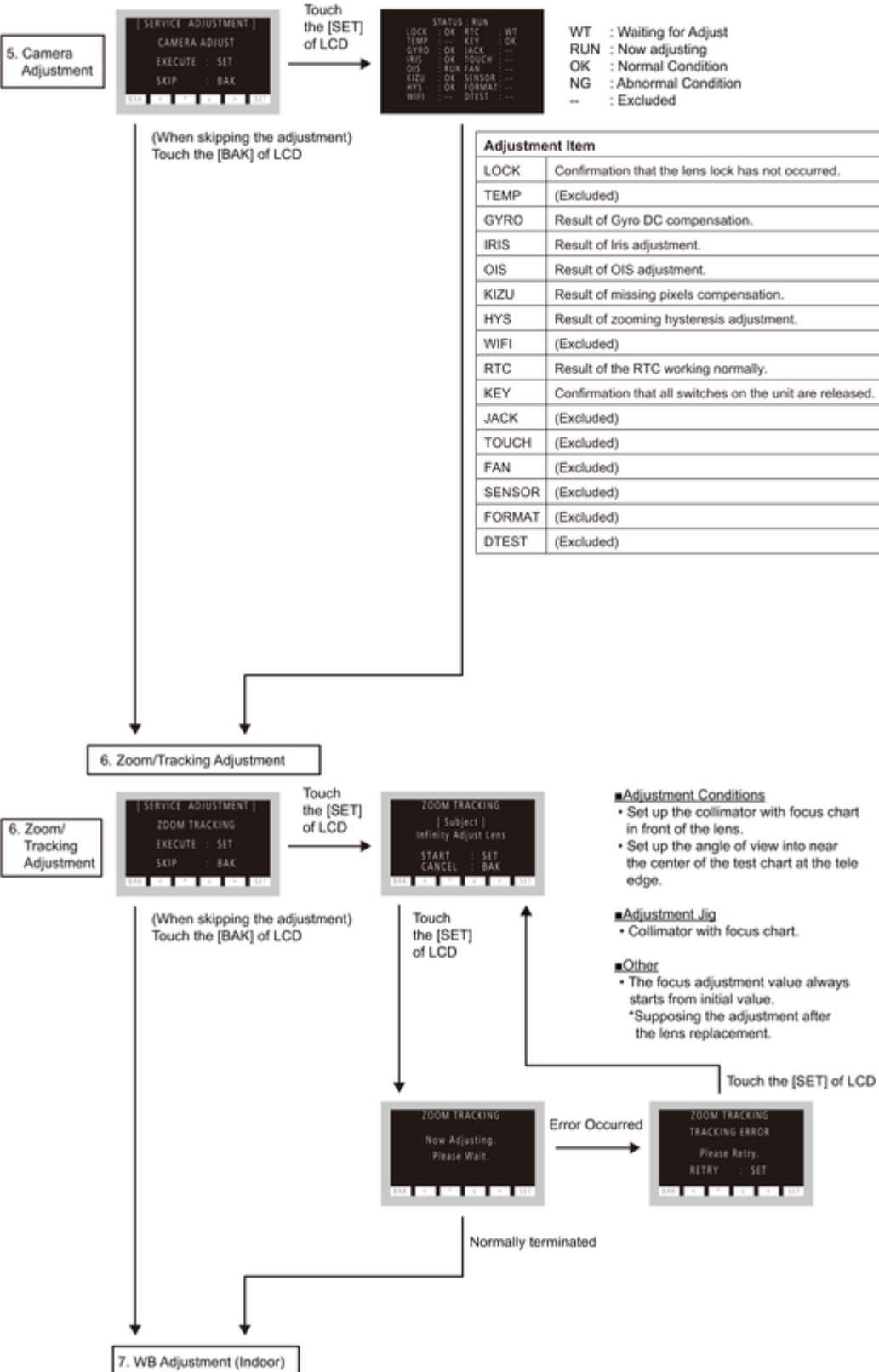


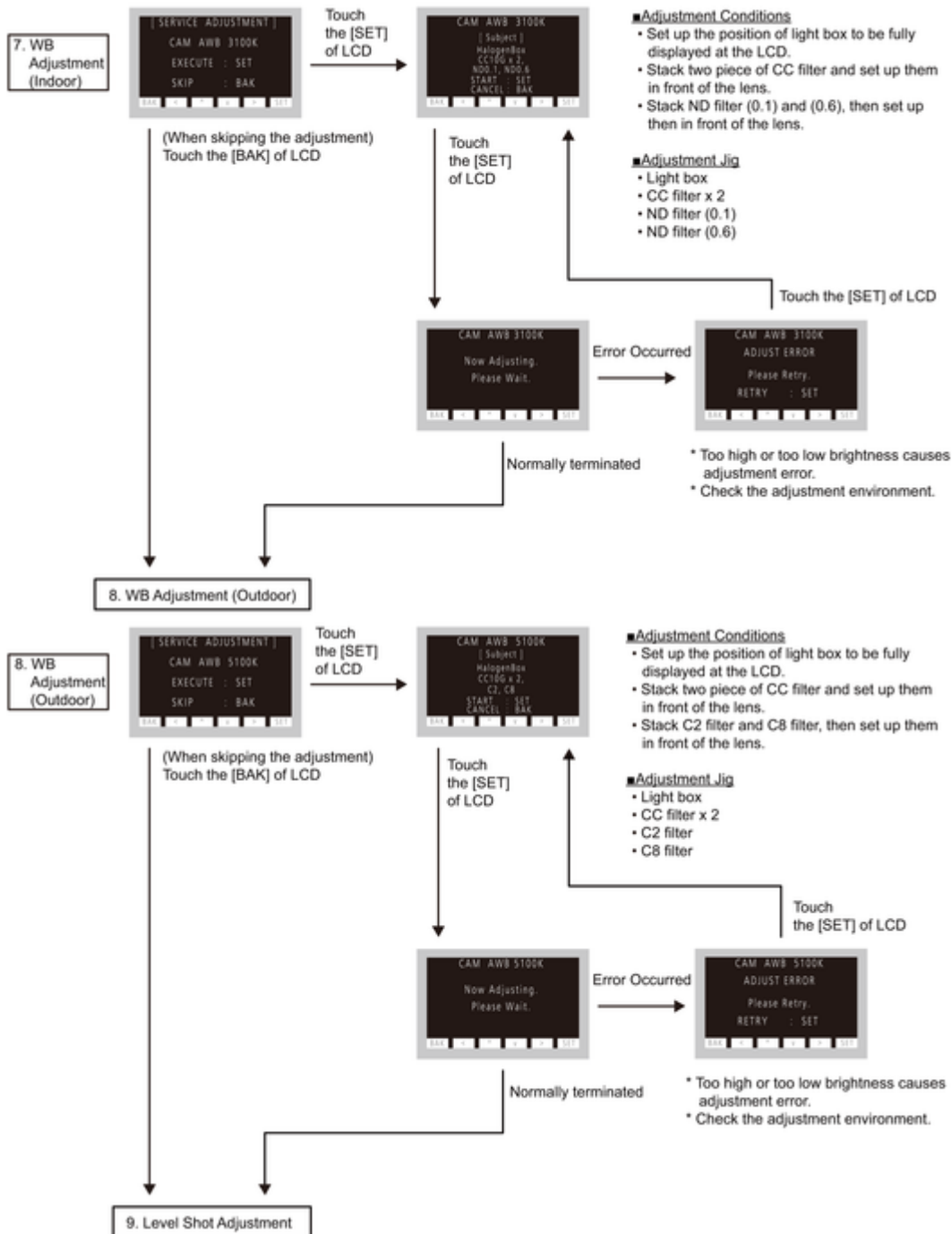


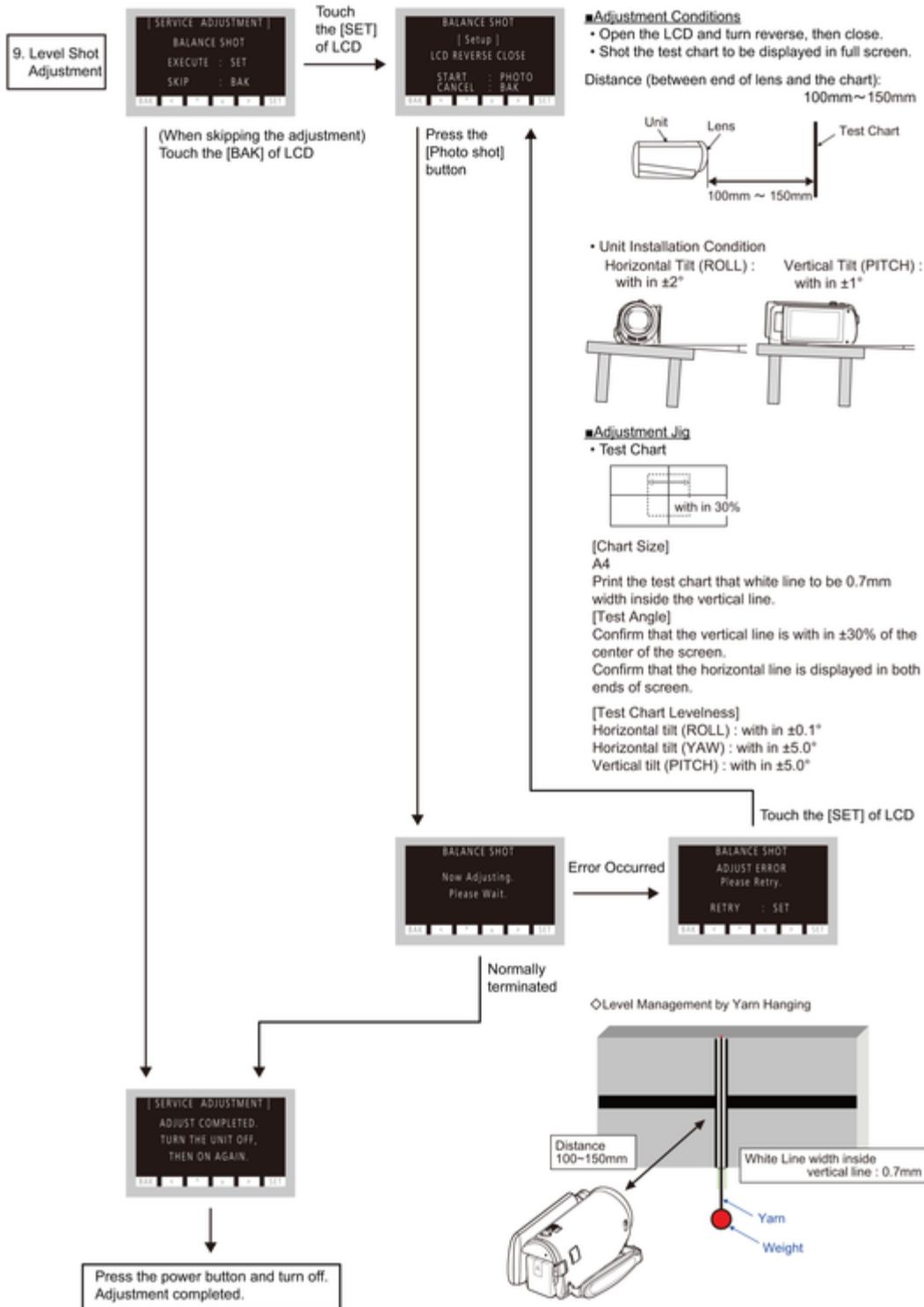


< Switches arrangement >





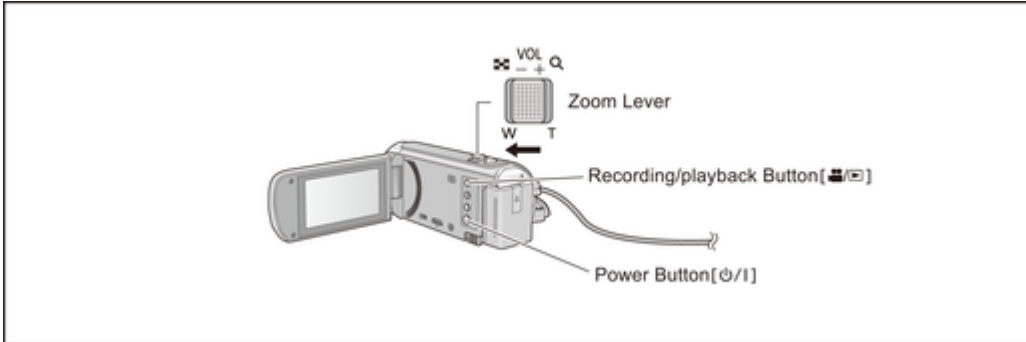




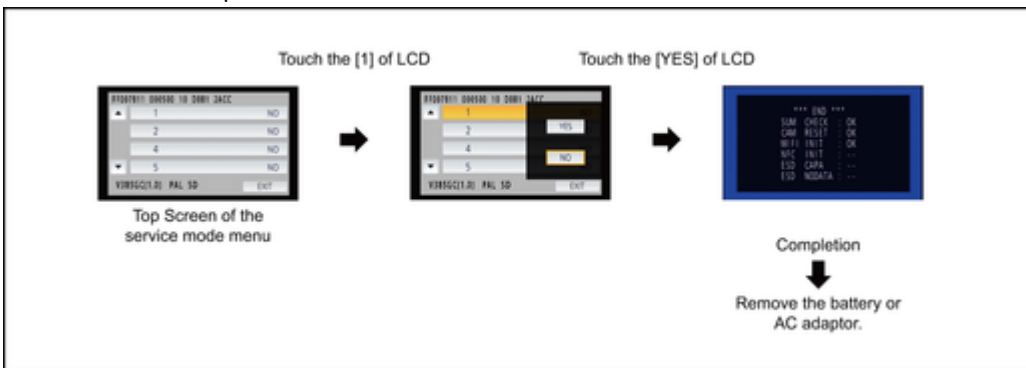
10 Factory Setting

10.1 How To Turn On The Factory Settings?

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



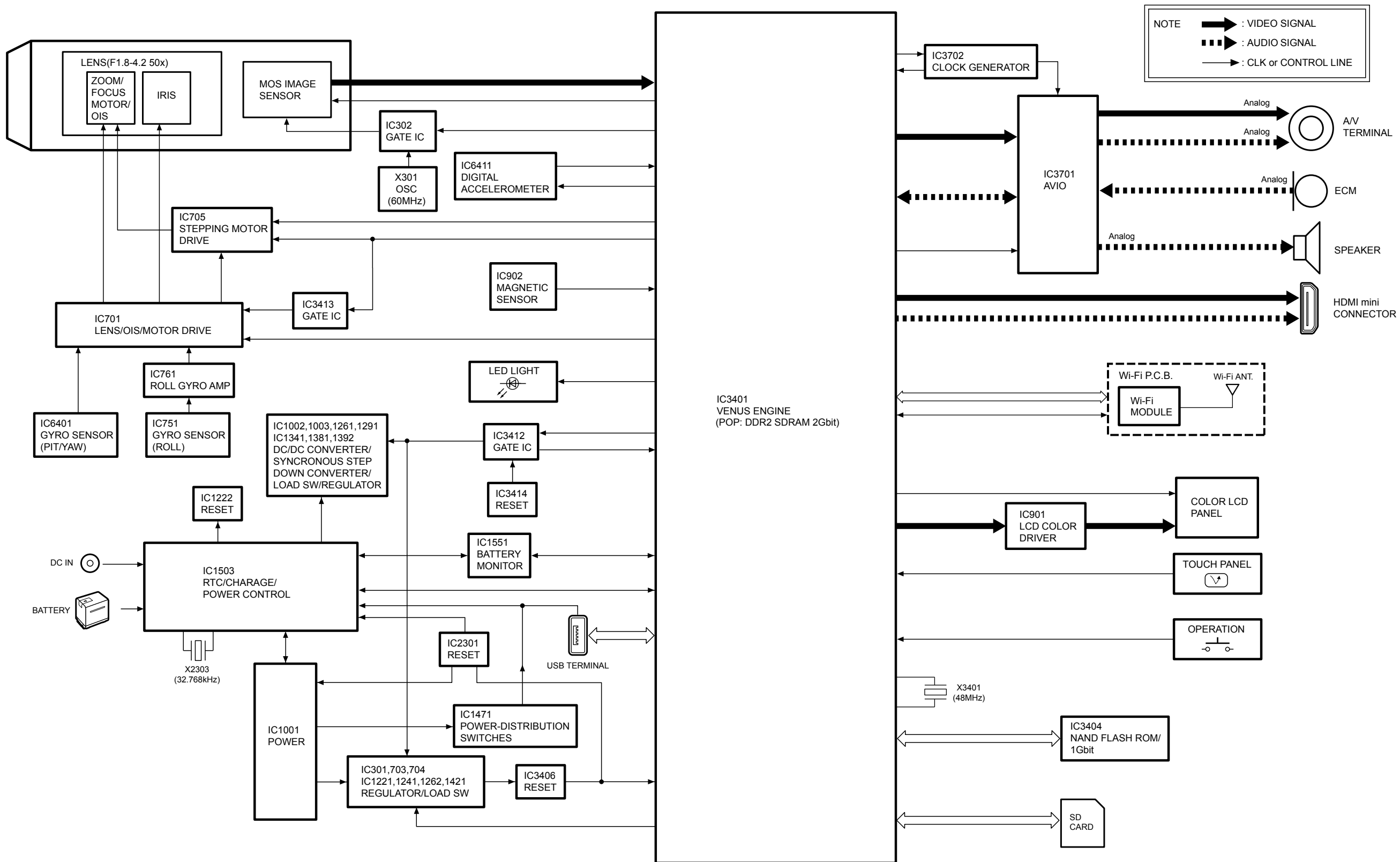
2. Touch the [1] of LCD.
3. Touch the [YES] of LCD.
4. After few seconds “END” is displayed on LCD monitor. Cutting of battery connection or AC power supply connection as a completion of the “FACTORY SETTINGS”.



10.2 What Is The Factory Settings?

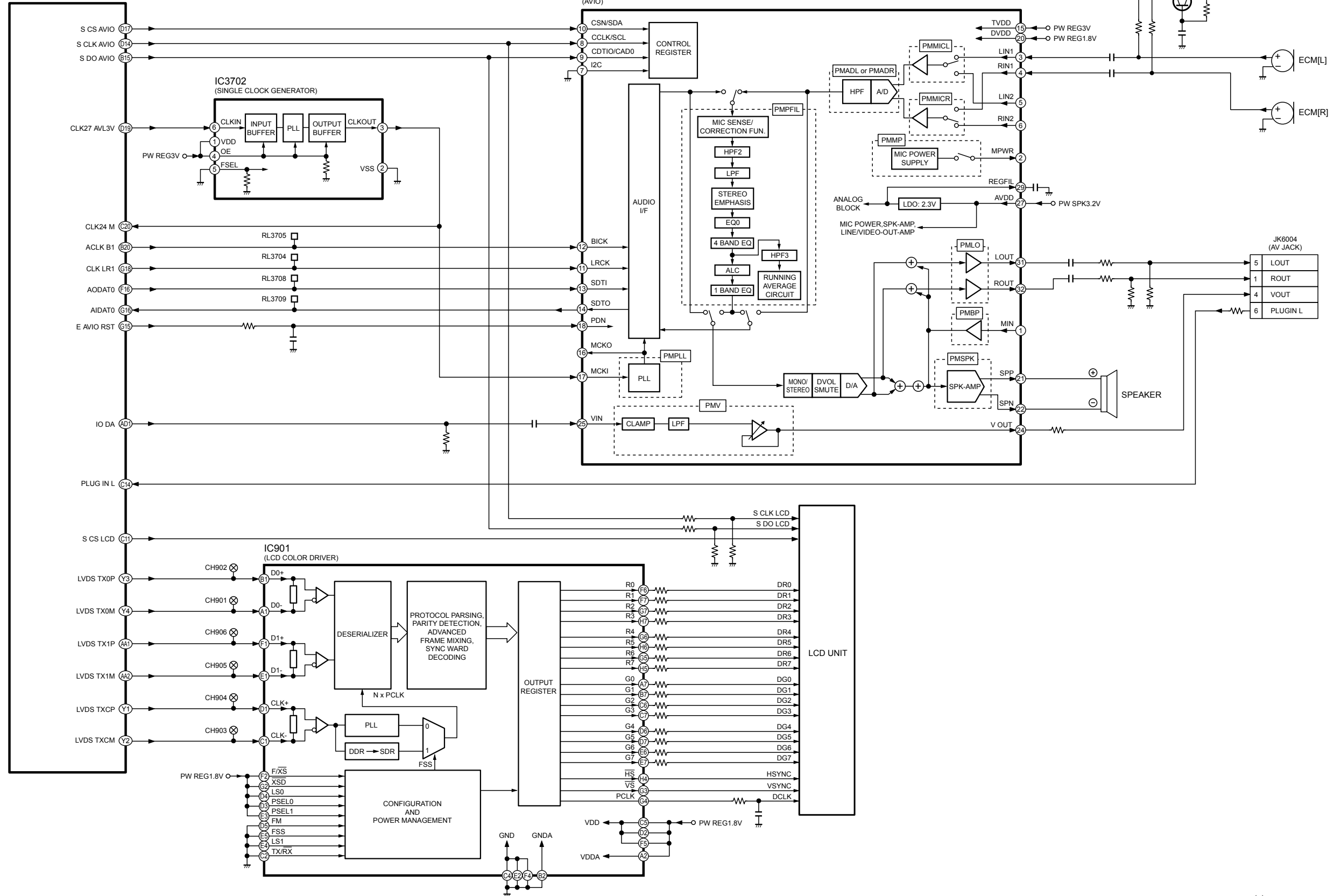
The factory settings clean up and/or refresh the following settings.

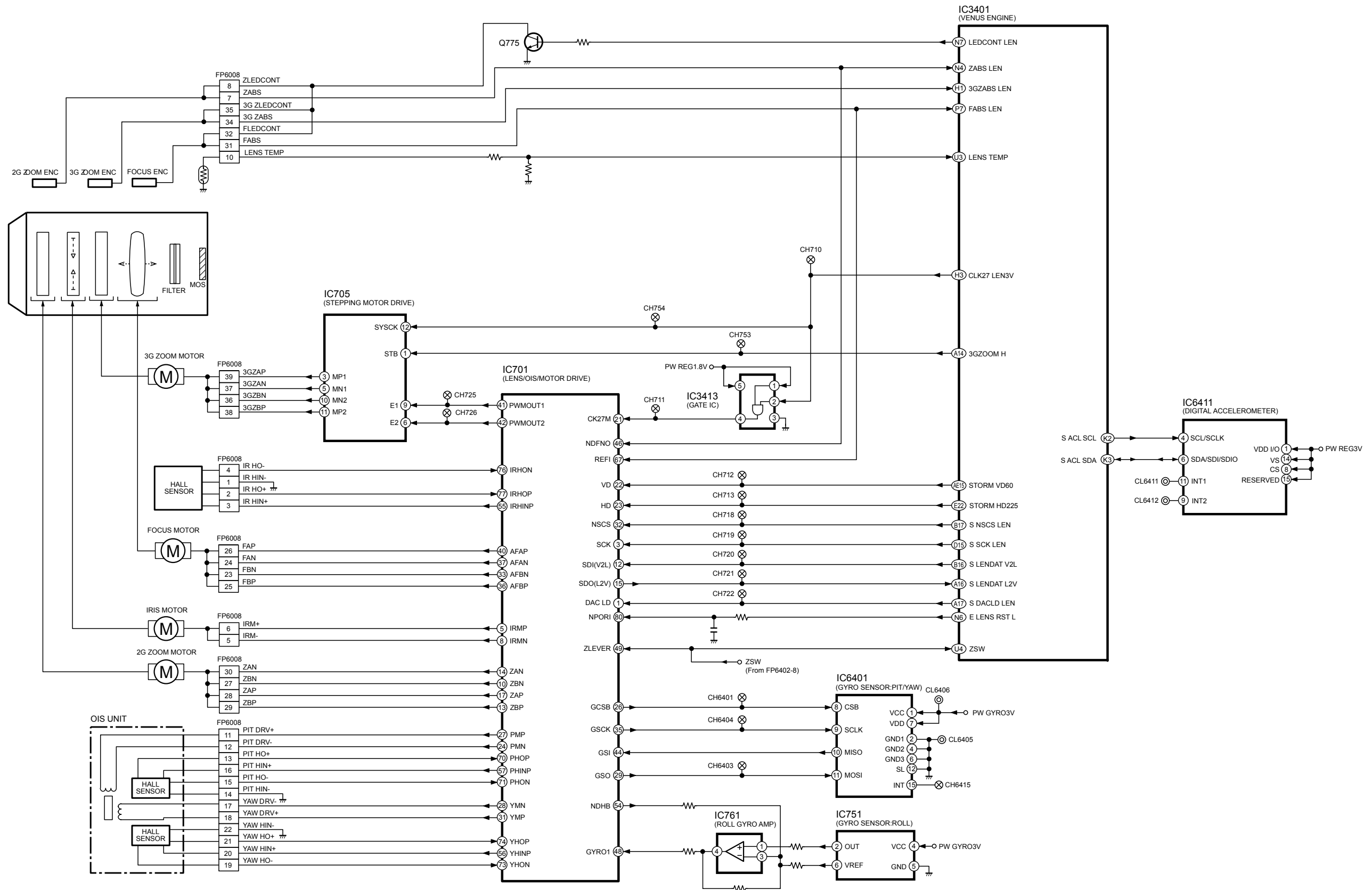
1. Setting Values of menu.
2. Clear the time and date setting.
3. Initialize the Wi-Fi data settings.

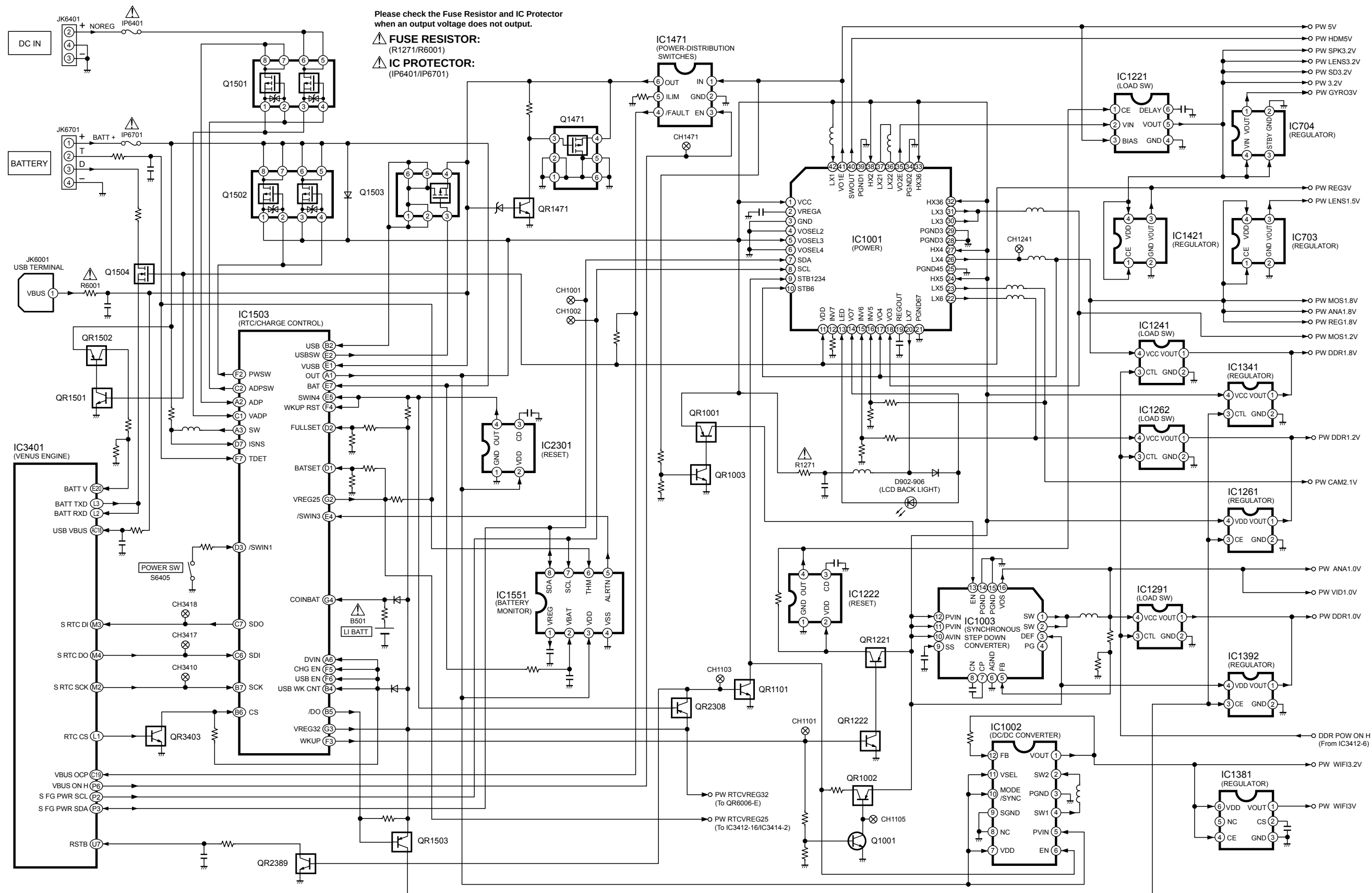


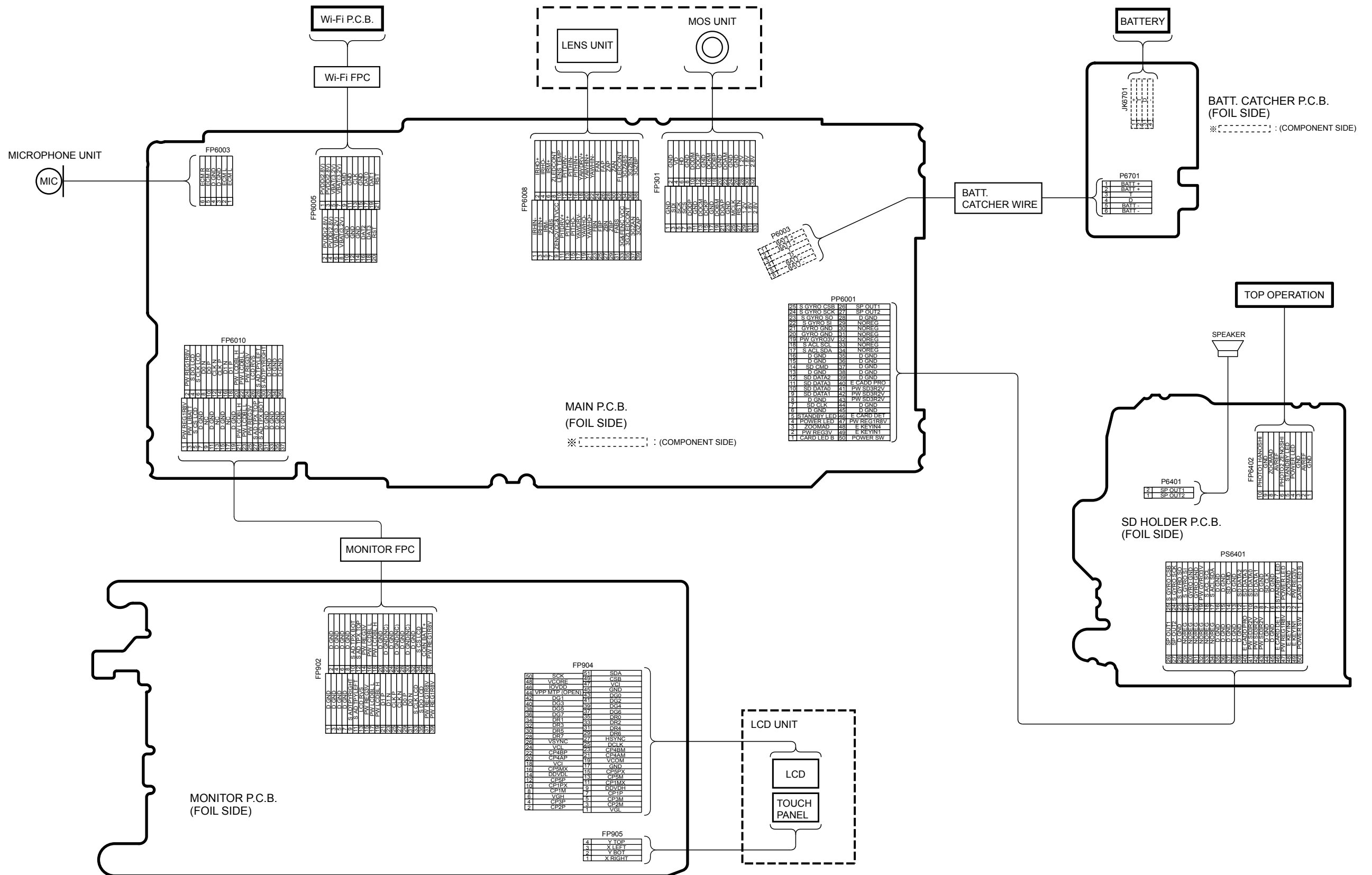


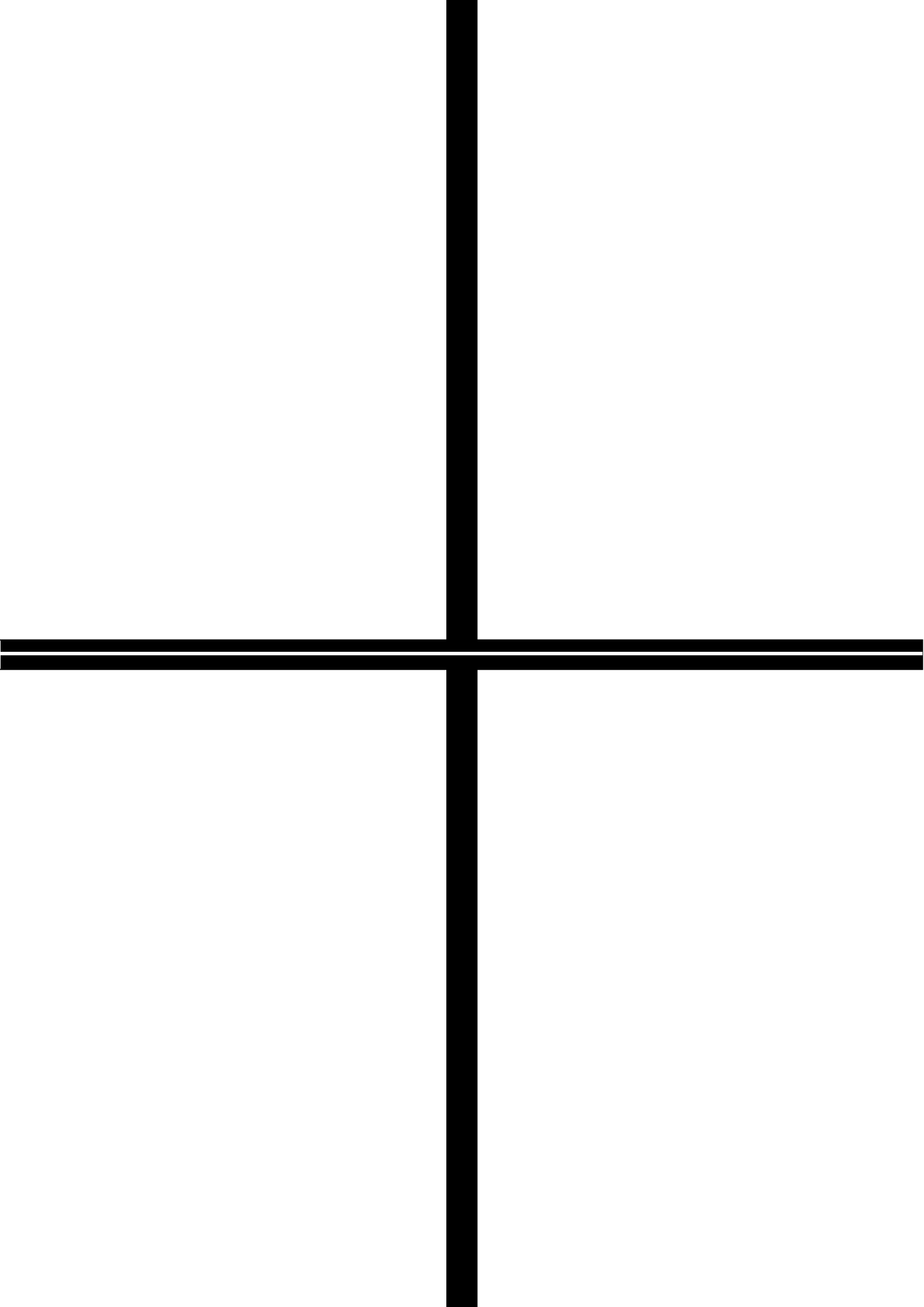
IC3401
(VENUS ENGINE)









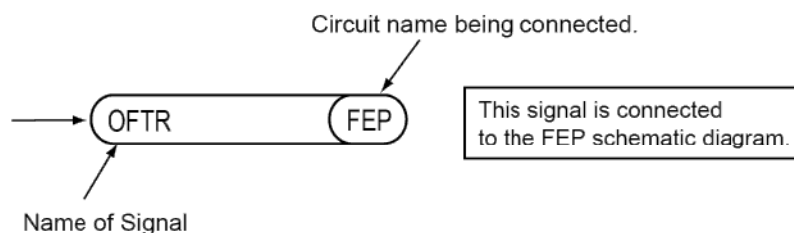


Model No. : HC-V385 Schematic Diagram Note

IMPORTANT SAFETY NOTICE:

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

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



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

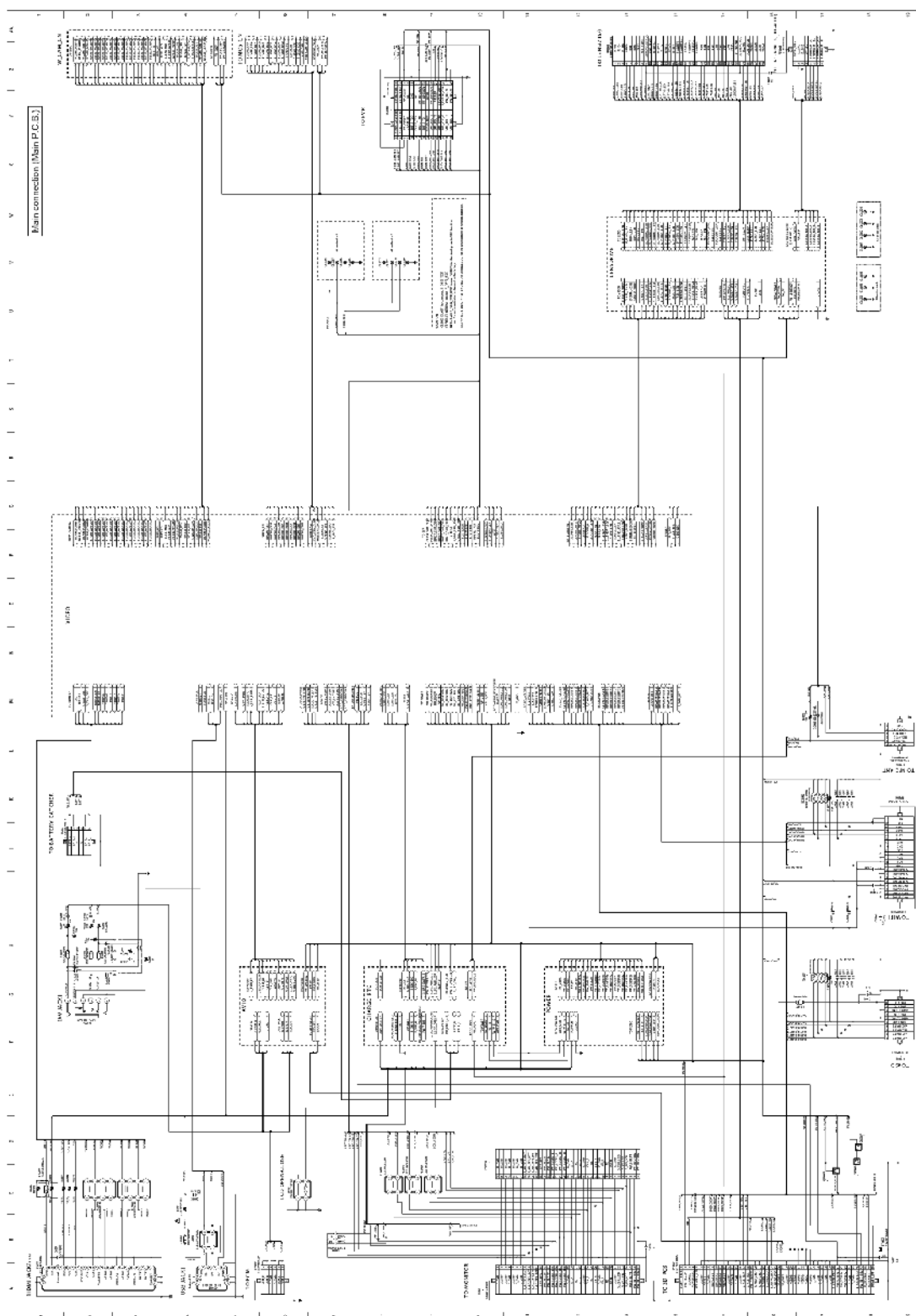
Model No. : HC-V385 Parts List Note

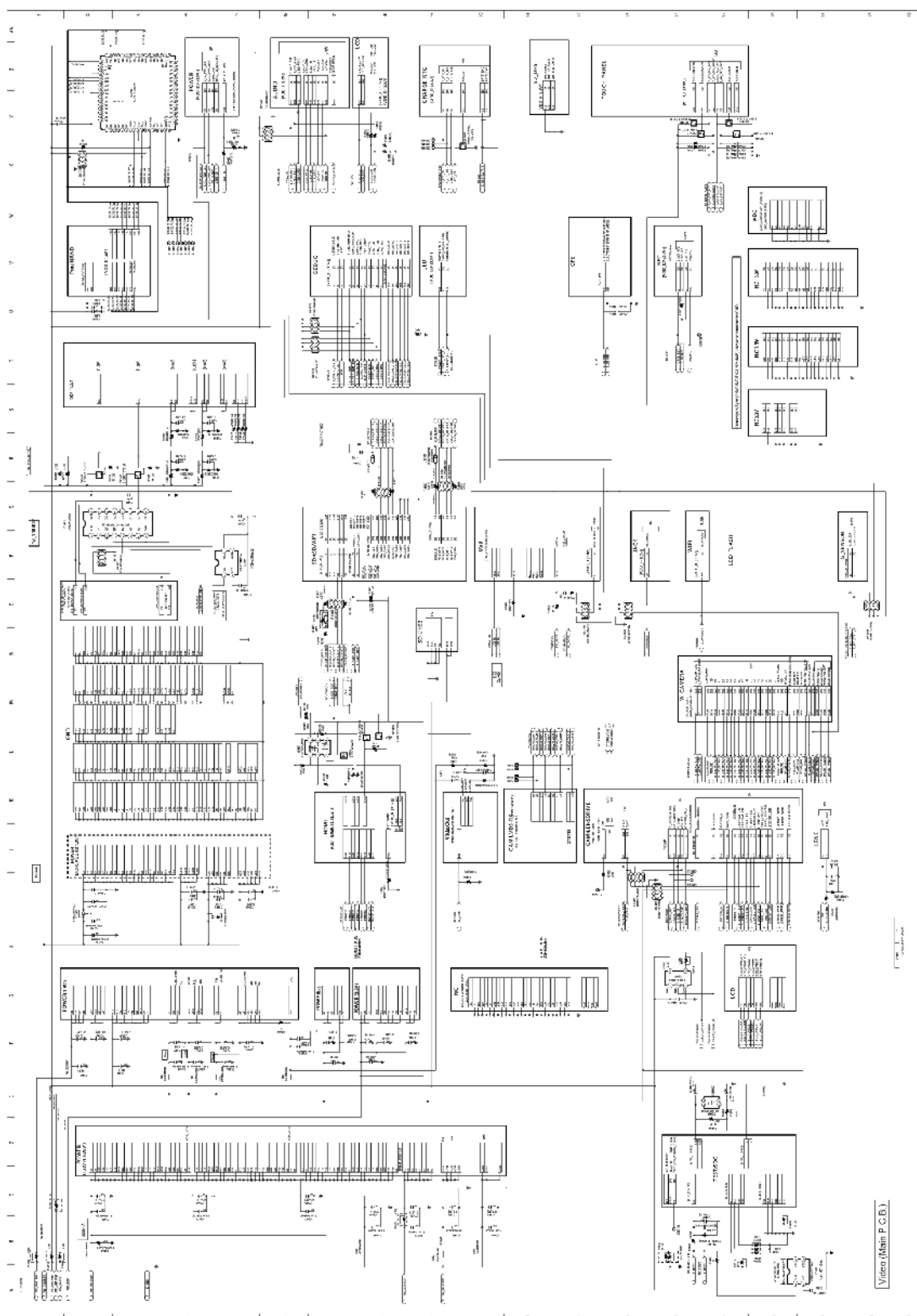
- Note:
1. * Be sure to make your orders of replacement parts according to this list.
 2. IMPORTANT SAFETY NOTICE
Components identified with the mark  have the special characteristics for safety.
When replacing any of these components, use only the same type.
 3. Unless otherwise specified,
All resistors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

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

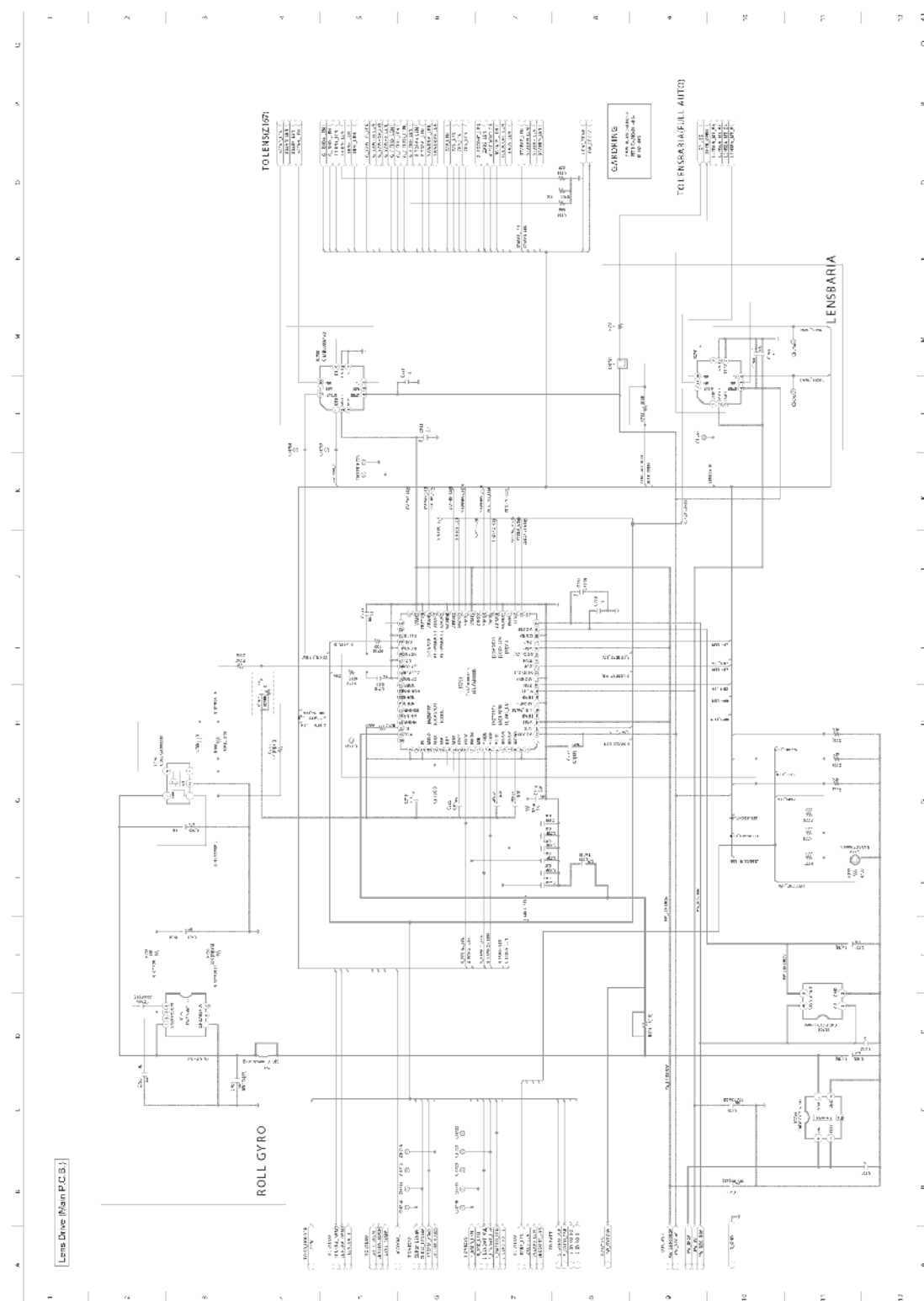
Definition of Parts supplier:

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

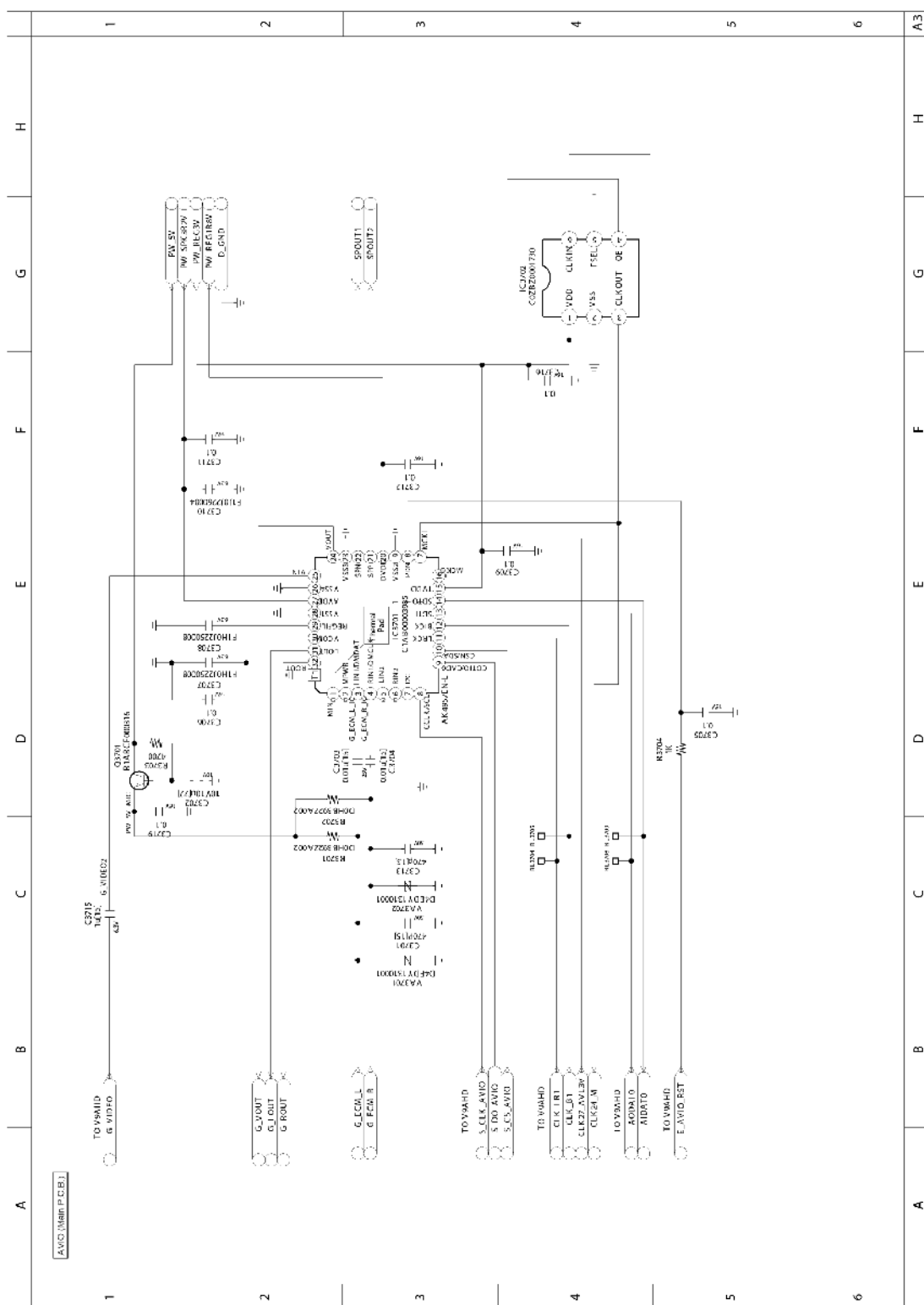
Model No. : HC-V385 Main connection (Main P.C.B.)

Model No. : HC-V385 Video (Main P.C.B.)

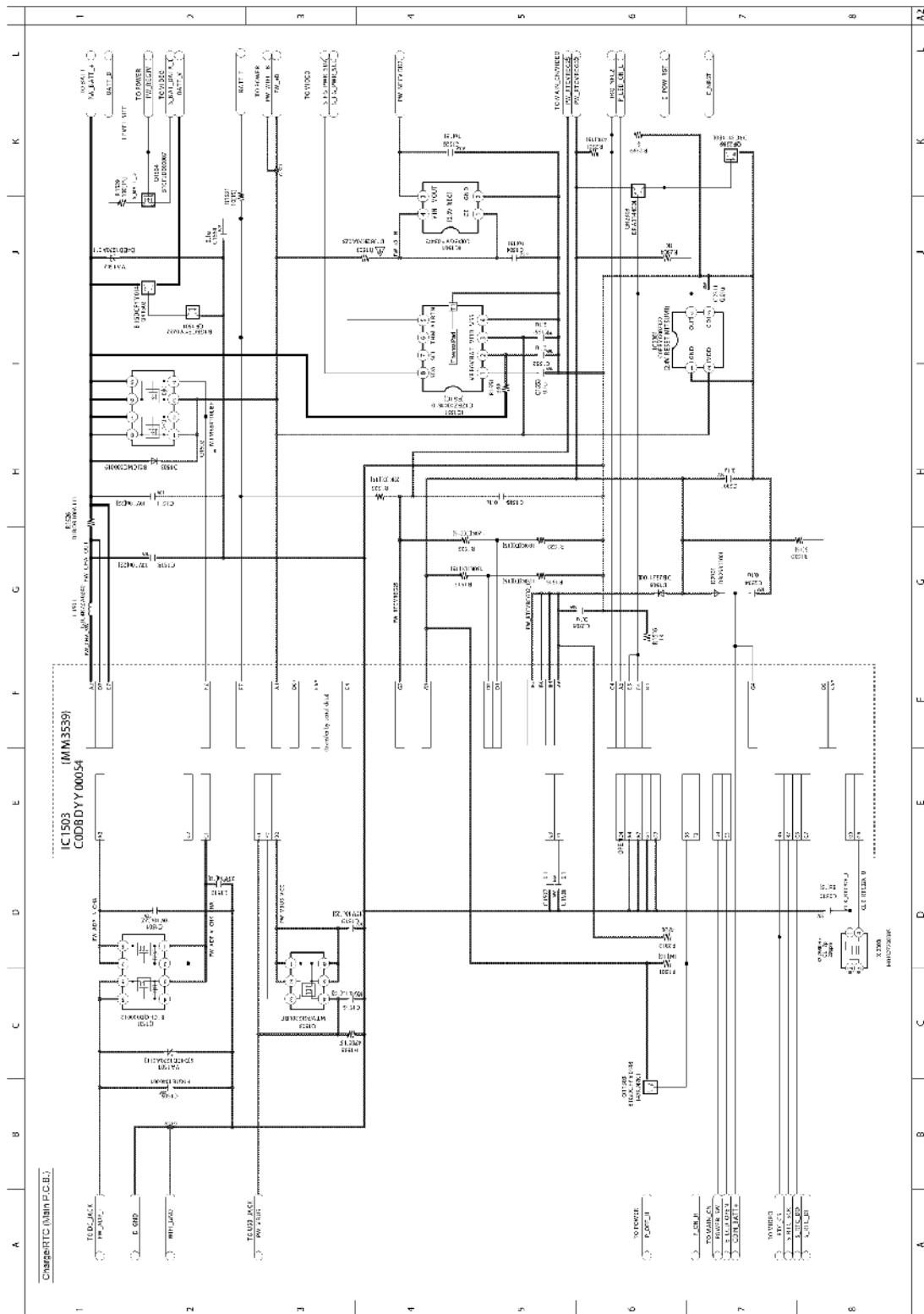
file://C:\Users\sh.dehghani\Desktop\host\HC-V385GCALLSVC_VM1702001CE\viewing\... 8/24/2017

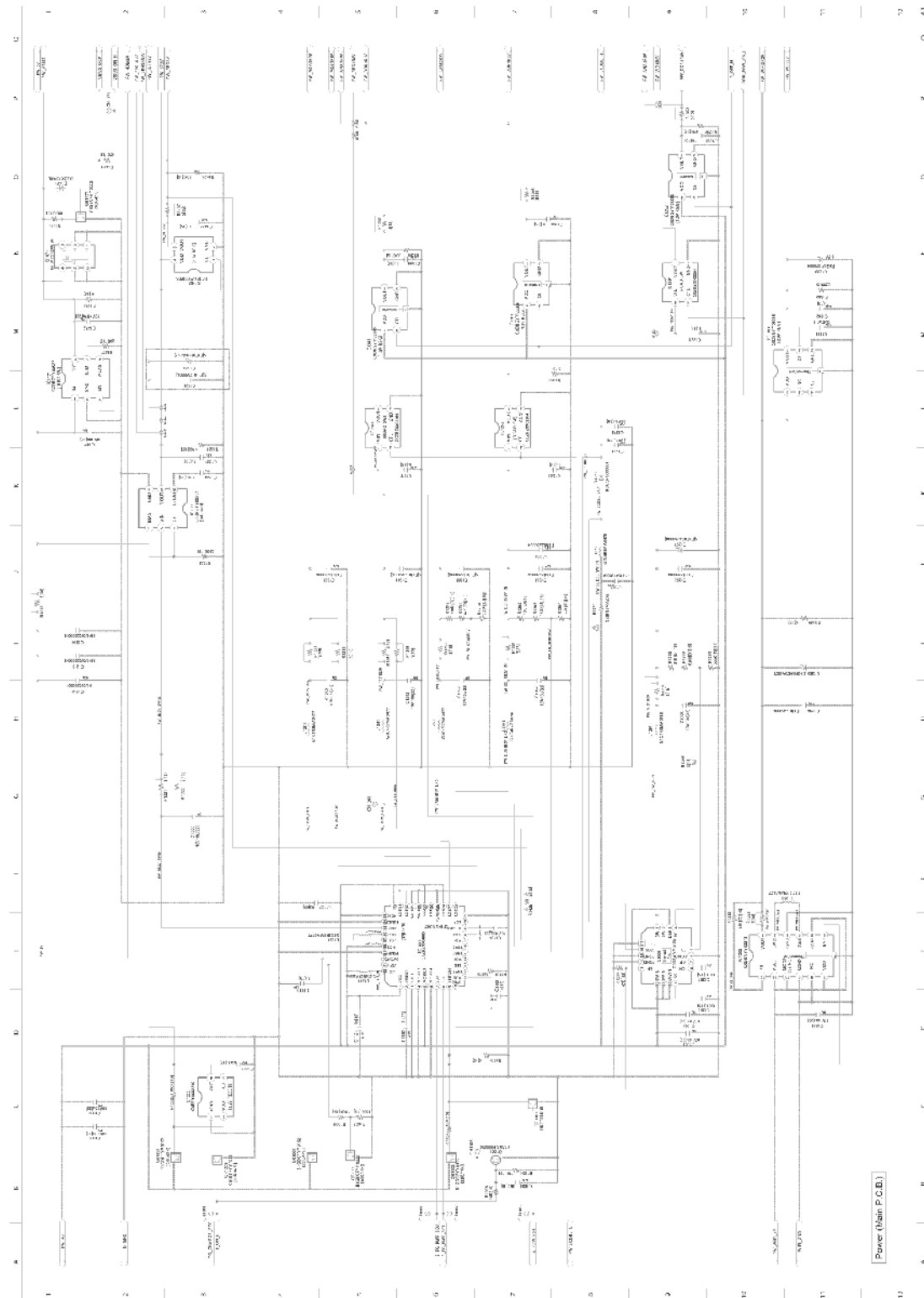


Model No. : HC-V385 AVIO (Main P.C.B.)

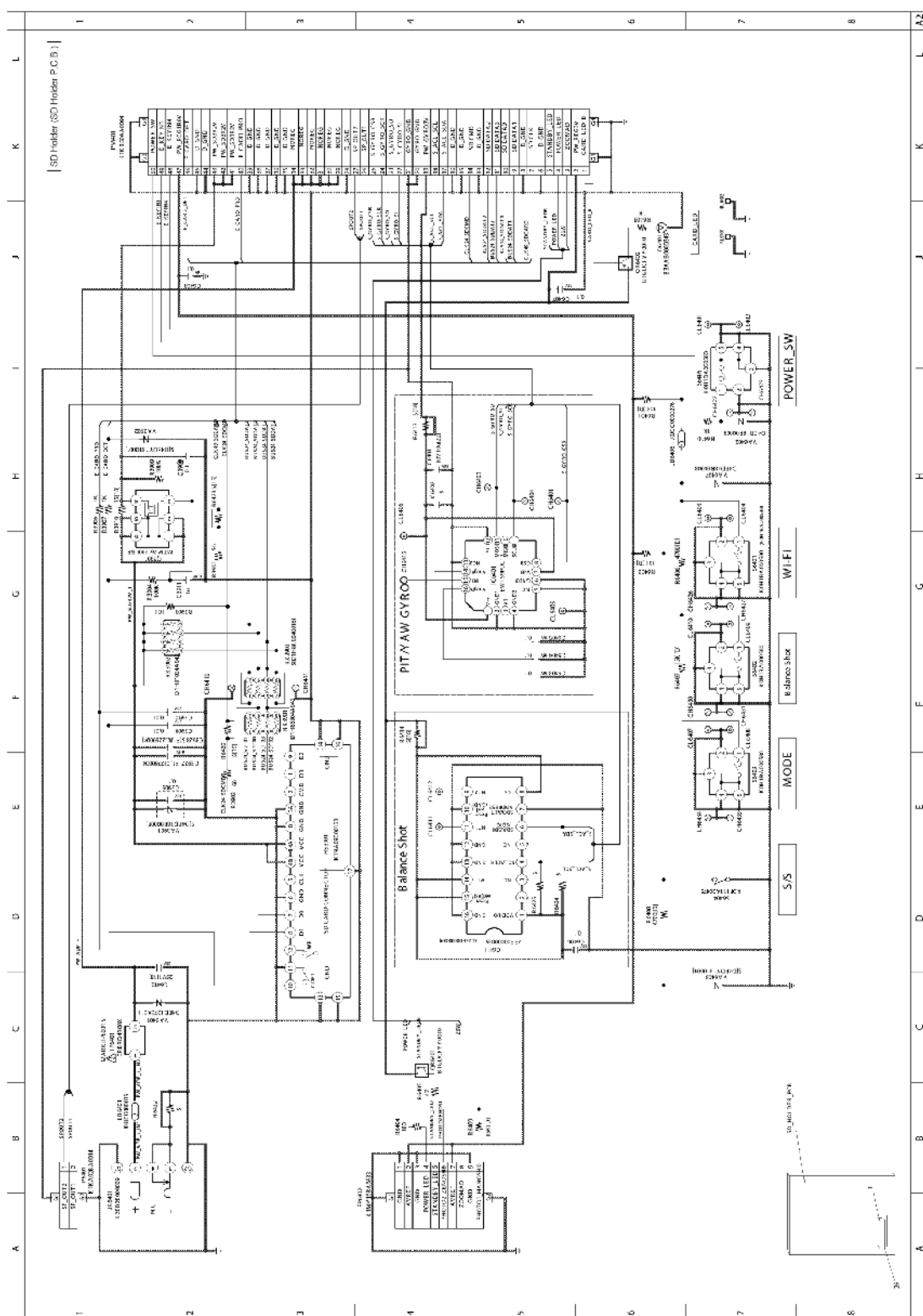


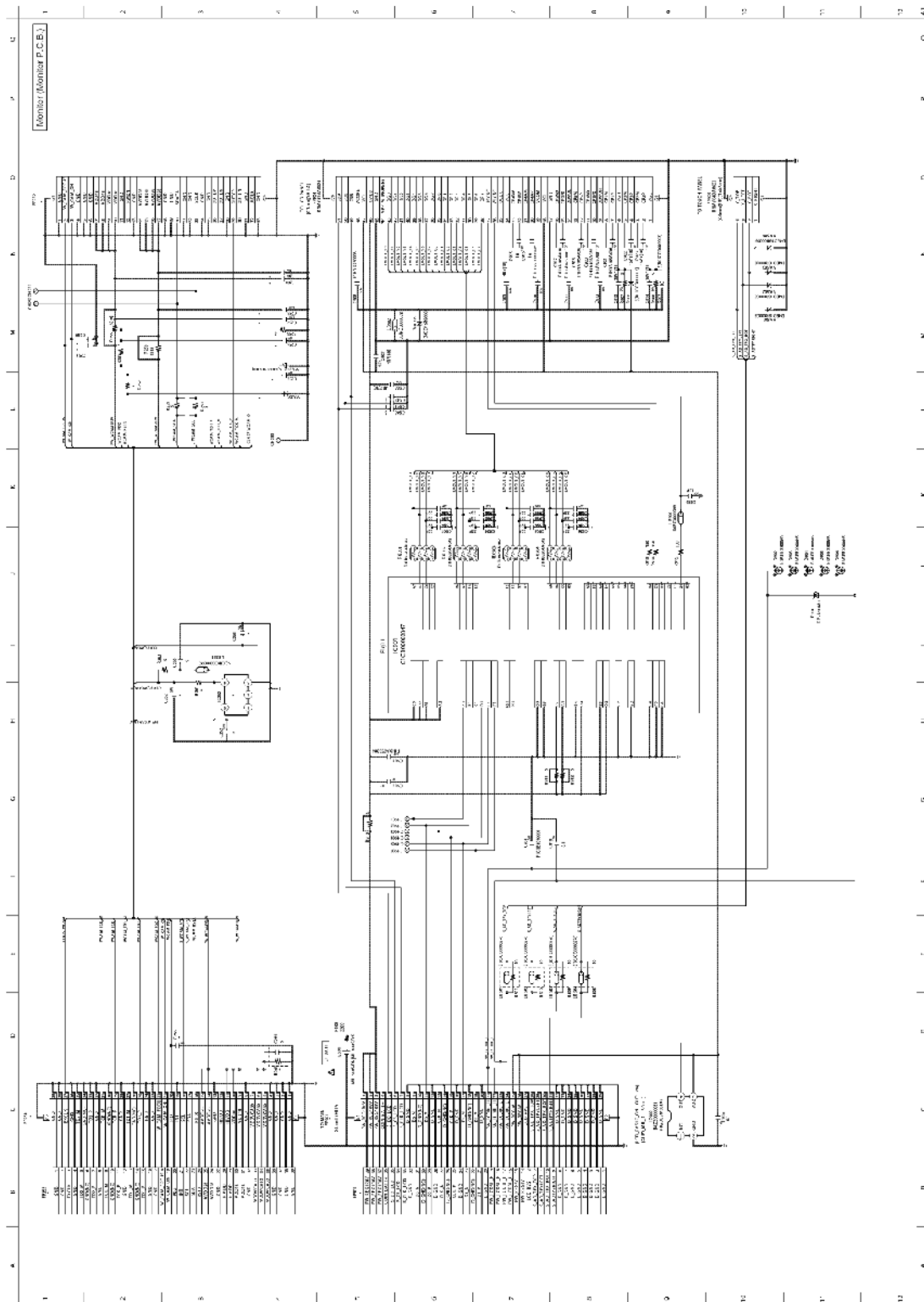
Model No. : HC-V385 Charge/RTC (Main P.C.B.)



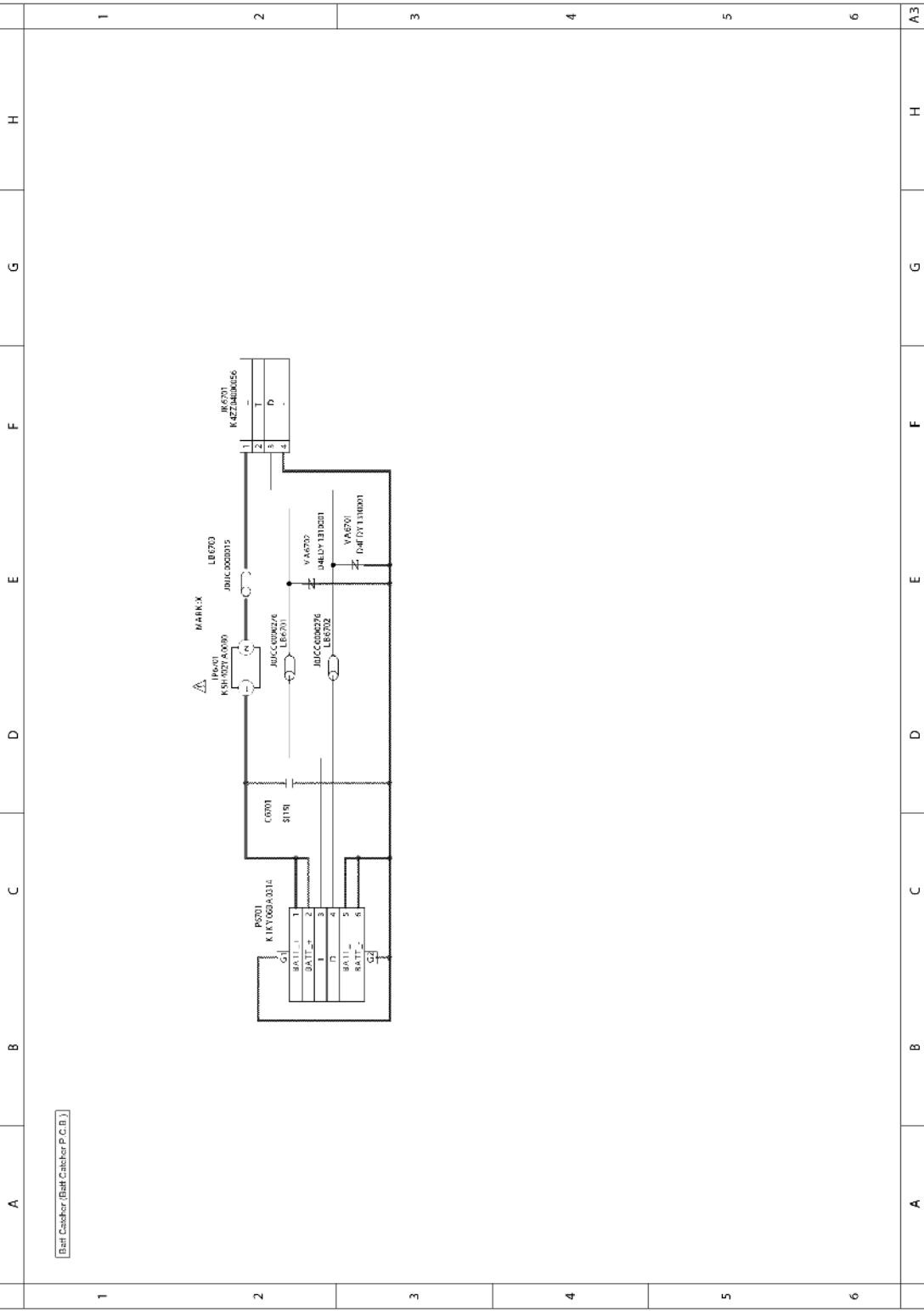
Model No. : HC-V385 Power (Main P.C.B.)

Model No. : HC-V385 SD Holder (SD Holder P.C.B.)

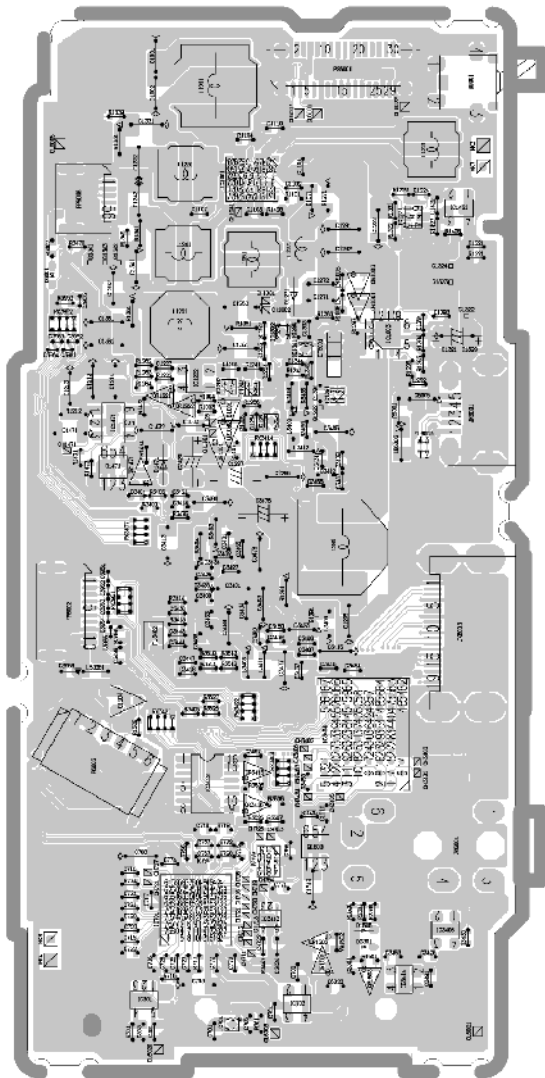


Model No. : HC-V385 Monitor (Monitor P.C.B.)

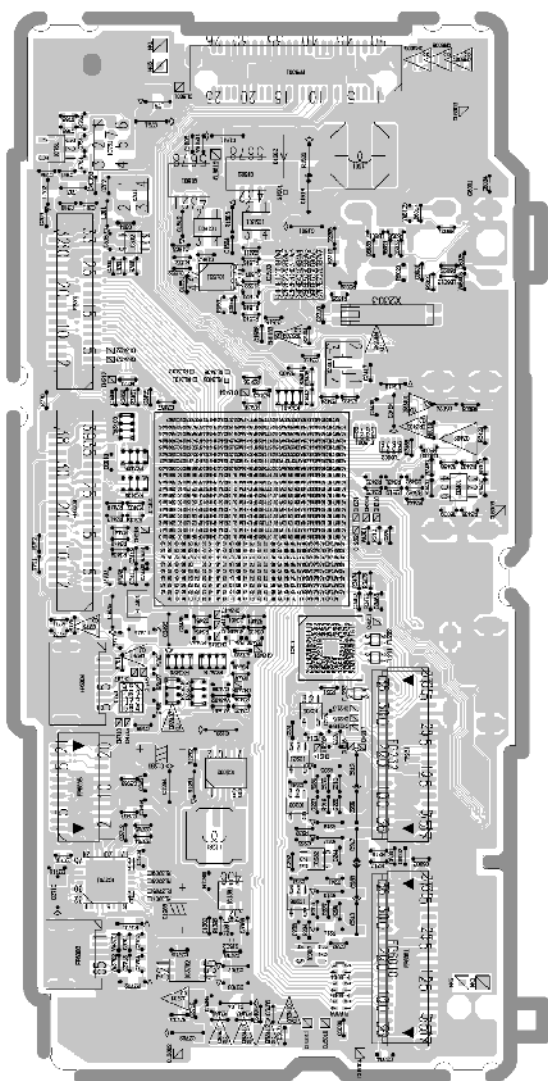
Model No. : HC-V385 Batt Catcher (Batt Catcher P.C.B.)

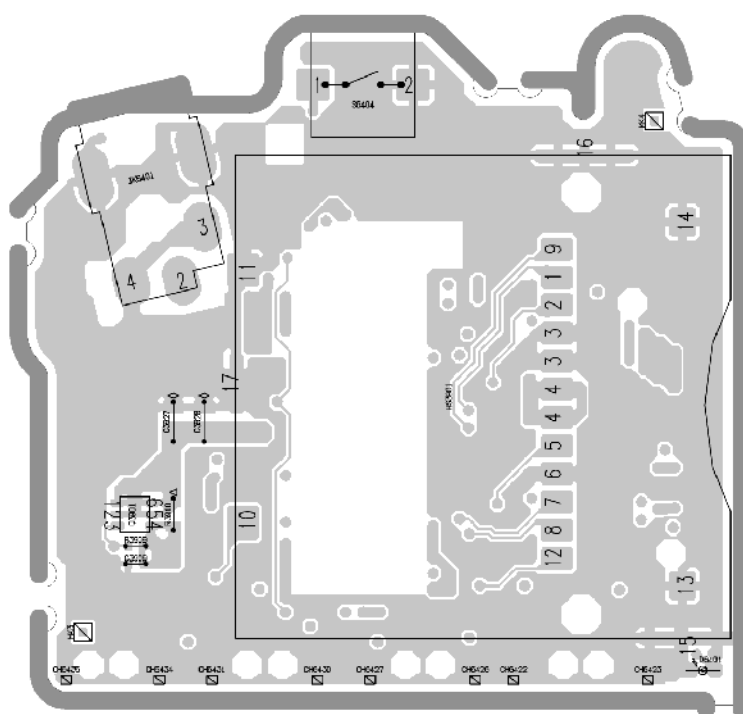


Model No. : HC-V385 Main P.C.B.(Component Side)

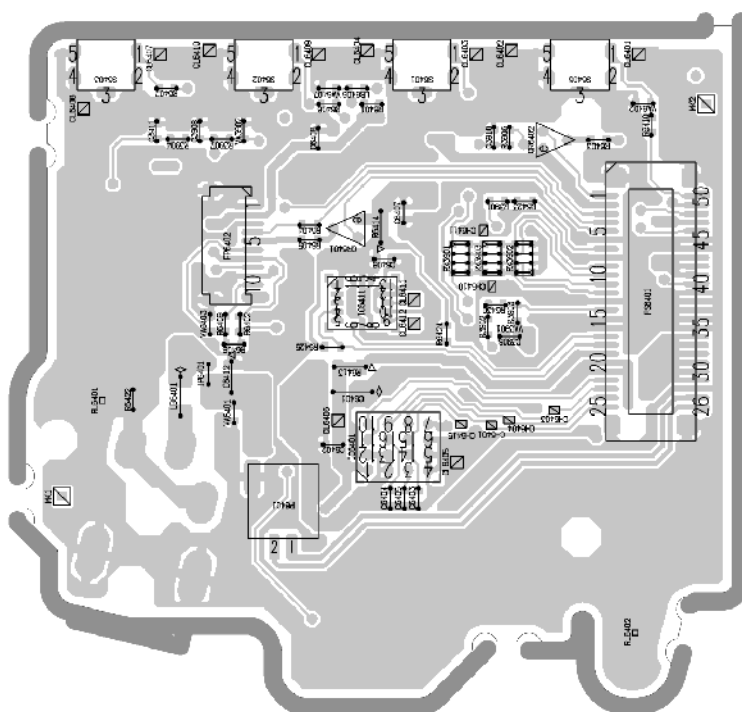


Model No. : HC-V385 Main P.C.B.(Foil Side)

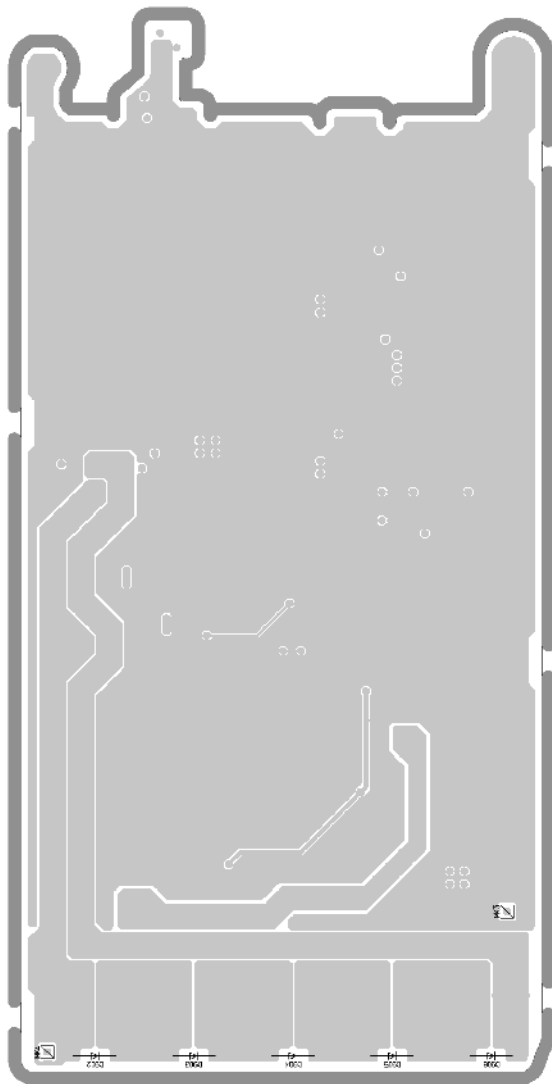




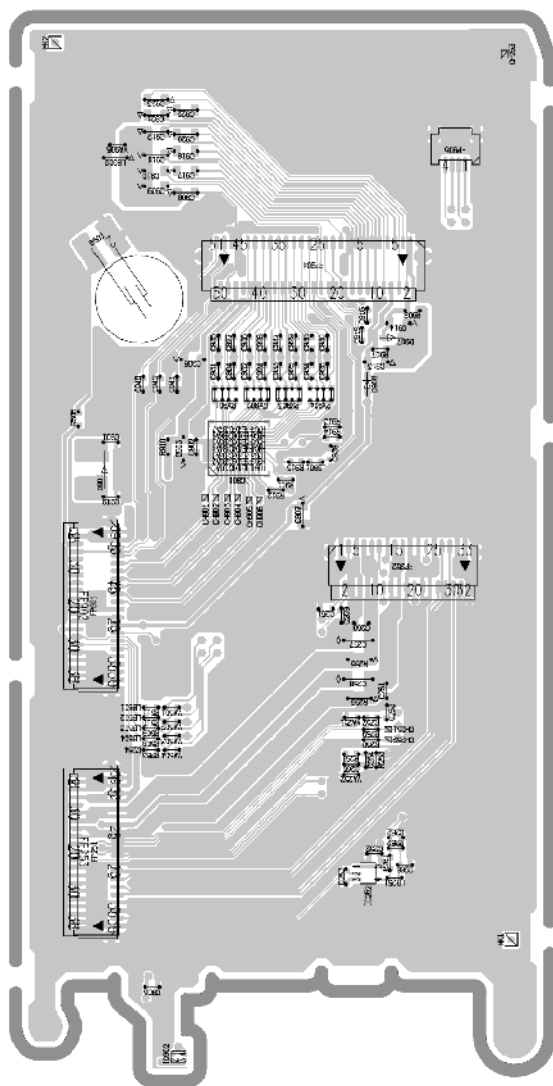
Model No. : HC-V385 SD Holder P.C.B.(Foil Side)



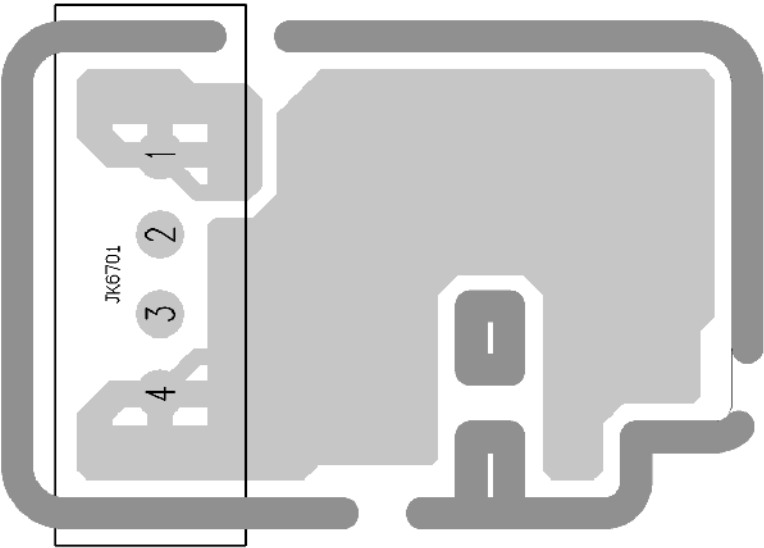
Model No. : HC-V385 Monitor P.C.B.(Component Side)



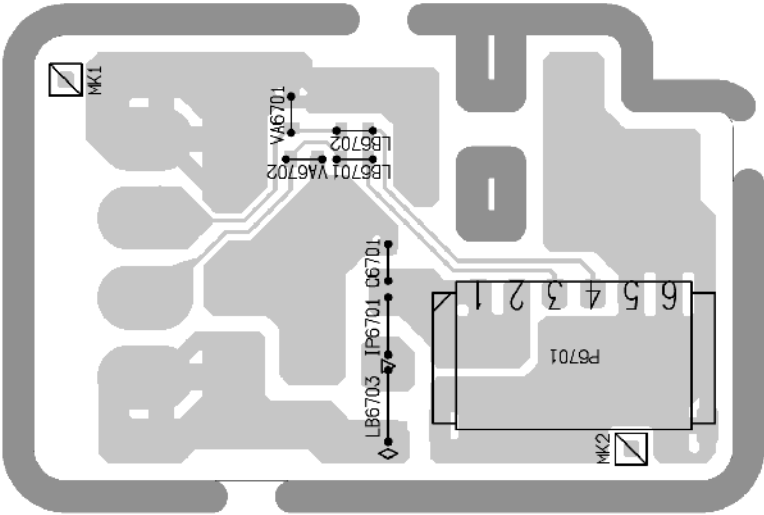
Model No. : HC-V385 Monitor P.C.B.(Foil Side)



Model No. : HC-V385 Battery Catcher P.C.B.(Component Side)



Model No. : HC-V385 Battery Catcher P.C.B.(Foil Side)



Model No. : HC-V385 Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		B501	ML-614S/DN	BUTTON BATTERY	1	
		C302	F1G0J1050007	CAPACITOR	1	
		C303	F1G0J1050007	CAPACITOR	1	
		C304	F1G0J1050007	CAPACITOR	1	
		C305	F1G1C104A146	CAPACITOR	1	
		C309	F1G0J1050007	CAPACITOR	1	
		C310	F1G0J1050007	CAPACITOR	1	
		C703	F1J1A106A043	CAPACITOR	1	
		C704	F1G0J1050007	CAPACITOR	1	
		C705	F1G0J1050007	CAPACITOR	1	
		C707	F1G1C104A146	CAPACITOR	1	
		C708	F1J1A106A043	CAPACITOR	1	
		C715	F1G1C104A146	CAPACITOR	1	
		C716	F1G1E103A144	CAPACITOR	1	
		C718	F1G1E103A144	CAPACITOR	1	
		C719	F1G1E103A144	CAPACITOR	1	
		C720	F1G1E103A144	CAPACITOR	1	
		C721	F1G1E103A144	CAPACITOR	1	
		C722	F1G1E103A144	CAPACITOR	1	
		C723	F1G1E103A144	CAPACITOR	1	
		C724	F1G1E103A144	CAPACITOR	1	
		C725	F1G1E103A144	CAPACITOR	1	
		C726	F1G1E103A144	CAPACITOR	1	
		C727	F1G1E103A144	CAPACITOR	1	
		C728	F1G1C104A146	CAPACITOR	1	
		C751	F1J1A106A043	CAPACITOR	1	
		C753	F1G1C104A146	CAPACITOR	1	
		C754	F1G1H222A830	CAPACITOR	1	
		C755	F1G1C104A146	CAPACITOR	1	
		C761	F1G1E103A144	CAPACITOR	1	
		C765	F1G0J1050007	CAPACITOR	1	
		C767	F1G1C104A146	CAPACITOR	1	
		C772	F1G1C104A146	CAPACITOR	1	
		C774	F1G0J1050007	CAPACITOR	1	
		C901	F1G1E1040001	CAPACITOR	1	
		C902	F1G1C104A146	CAPACITOR	1	
		C903	F1H0J4750004	CAPACITOR	1	
		C904	F1G1H220A834	CAPACITOR	1	
		C905	F1G1C104A146	CAPACITOR	1	
		C906	F1H0J4750004	CAPACITOR	1	
		C907	F1H0J4750004	CAPACITOR	1	
		C908	F1H0J2250008	CAPACITOR	1	
		C909	F1H0J4750004	CAPACITOR	1	
		C910	F1H0J2250008	CAPACITOR	1	
		C911	F1H1A4750001	CAPACITOR	1	
		C912	F1H1A4750001	CAPACITOR	1	
		C913	F1H1E105A116	CAPACITOR	1	
		C914	F1H1C105A167	CAPACITOR	1	
		C915	F1G0J1050007	CAPACITOR	1	
		C916	F1G0J1050007	CAPACITOR	1	
		C917	F1H1A1050040	CAPACITOR	1	
		C918	F1H1A1050040	CAPACITOR	1	
		C919	F1G1C104A146	CAPACITOR	1	
		C920	F1H1A1050040	CAPACITOR	1	
		C921	F1H1A1050040	CAPACITOR	1	
		C922	F1H1C105A167	CAPACITOR	1	
		C923	F1H1C105A167	CAPACITOR	1	
		C924	F1G1H220A834	CAPACITOR	1	
		C925	F1G1H220A834	CAPACITOR	1	
		C926	F1G1H220A834	CAPACITOR	1	
		C927	F1G1H220A834	CAPACITOR	1	

		C928	F1G1H220A834	CAPACITOR	1	
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Model No. : HC-V385 Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C929	F1G1H220A834	CAPACITOR	1	
		C930	F1G1H220A834	CAPACITOR	1	
		C931	F1G1H220A834	CAPACITOR	1	
		C932	F1G1H220A834	CAPACITOR	1	
		C933	F1G1H220A834	CAPACITOR	1	
		C934	F1G1H220A834	CAPACITOR	1	
		C935	F1G1H220A834	CAPACITOR	1	
		C936	F1G1H220A834	CAPACITOR	1	
		C937	F1G1H220A834	CAPACITOR	1	
		C938	F1G1H220A834	CAPACITOR	1	
		C939	F1G1H150A834	CAPACITOR	1	
		C1001	F1J1A106A043	CAPACITOR	1	
		C1002	F1J1A106A043	CAPACITOR	1	
		C1003	F1H0J4750004	CAPACITOR	1	
		C1071	F1H0J4750004	CAPACITOR	1	
		C1101	F1G0J1050007	CAPACITOR	1	
		C1102	F1G0J1050007	CAPACITOR	1	
		C1103	F1G0J1050007	CAPACITOR	1	
		C1104	F1J1A106A043	CAPACITOR	1	
		C1107	F1G0J1050007	CAPACITOR	1	
		C1110	F1G0J1050007	CAPACITOR	1	
		C1212	F1J0J2260004	CAPACITOR	1	
		C1221	F1G0J1050007	CAPACITOR	1	
		C1222	F1J1A106A043	CAPACITOR	1	
		C1223	F1G1E103A144	CAPACITOR	1	
		C1224	F1G1E103A144	CAPACITOR	1	
		C1232	F1J1A106A043	CAPACITOR	1	
		C1241	F1G0J1050007	CAPACITOR	1	
		C1242	F1J1A106A043	CAPACITOR	1	
		C1252	F1J1A106A043	CAPACITOR	1	
		C1261	F1G0J1050007	CAPACITOR	1	
		C1262	F1J1A106A043	CAPACITOR	1	
		C1264	F1G0J1050007	CAPACITOR	1	
		C1271	F1H1E105A116	CAPACITOR	1	
		C1272	F1H1E105A116	CAPACITOR	1	
		C1281	F1J1A106A043	CAPACITOR	1	
		C1284	F1J0J2260004	CAPACITOR	1	
		C1288	F3G0J1070004	CAPACITOR	1	
		C1291	F1J1A106A043	CAPACITOR	1	
		C1292	F1J1A106A043	CAPACITOR	1	
		C1293	F1G1E103A144	CAPACITOR	1	
		C1294	F1G1E103A144	CAPACITOR	1	
		C1295	F1J1A106A043	CAPACITOR	1	
		C1296	F1J0J2260004	CAPACITOR	1	
		C1331	F1J0J2260004	CAPACITOR	1	
		C1344	F1G0J1050007	CAPACITOR	1	
		C1361	F1J0J2260004	CAPACITOR	1	
		C1362	F1J0J2260004	CAPACITOR	1	
		C1381	F1G0J4740003	CAPACITOR	1	
		C1382	F1G0J1050007	CAPACITOR	1	
		C1393	F1G0J1050007	CAPACITOR	1	
		C1394	F1G0J1050007	CAPACITOR	1	
		C1422	F1G0J1050007	CAPACITOR	1	
		C1471	F1J1A106A043	CAPACITOR	1	
		C1472	F1J1A475A112	CAPACITOR	1	
		C1501	F1J1A106A043	CAPACITOR	1	
		C1505	F1G1E1040001	CAPACITOR	1	
		C1507	F1G1C104A146	CAPACITOR	1	
		C1508	F1G1C104A146	CAPACITOR	1	
		C1511	F1J1A106A043	CAPACITOR	1	
		C1512	F1H1E105A116	CAPACITOR	1	

		C1515	F1G1C104A146	CAPACITOR	1	
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Model No. : HC-V385 Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C1516	F1G1C104A146	CAPACITOR	1	
		C1518	F1J1A106A043	CAPACITOR	1	
		C1519	F1J1A106A043	CAPACITOR	1	
		C1551	F1G1C104A146	CAPACITOR	1	
		C1552	F1G1C104A146	CAPACITOR	1	
		C1553	F1G1C104A146	CAPACITOR	1	
		C1554	F1G1C104A146	CAPACITOR	1	
		C2301	F1G1C104A146	CAPACITOR	1	
		C2304	F1G1C104A146	CAPACITOR	1	
		C2305	F1G1C104A146	CAPACITOR	1	
		C2310	F1G1H8R0A833	CAPACITOR	1	
		C2311	F1G1E103A144	CAPACITOR	1	
		C3401	F1J0J106A020	CAPACITOR	1	
		C3403	F1J0J106A020	CAPACITOR	1	
		C3404	F1G1C104A146	CAPACITOR	1	
		C3405	F1J0J106A020	CAPACITOR	1	
		C3406	F1G1C104A146	CAPACITOR	1	
		C3407	F1G1C104A146	CAPACITOR	1	
		C3408	F1G0J1050007	CAPACITOR	1	
		C3409	F1G1E103A144	CAPACITOR	1	
		C3410	F1G1H9R0A833	CAPACITOR	1	
		C3411	F1G1C104A146	CAPACITOR	1	
		C3412	F1G1C104A146	CAPACITOR	1	
		C3413	F1J0J1060009	CAPACITOR	1	
		C3414	F1G1C104A146	CAPACITOR	1	
		C3415	F1J0J106A020	CAPACITOR	1	
		C3416	F1G1C104A146	CAPACITOR	1	
		C3417	F1G1H9R0A833	CAPACITOR	1	
		C3420	F3F0G4760004	CAPACITOR	1	
		C3421	F1G1C104A146	CAPACITOR	1	
		C3422	F1G1E103A144	CAPACITOR	1	
		C3423	F1H0J4750004	CAPACITOR	1	
		C3424	F1G1C104A146	CAPACITOR	1	
		C3425	F1G1C104A146	CAPACITOR	1	
		C3426	F1G1E682A144	CAPACITOR	1	
		C3427	F1G1C104A146	CAPACITOR	1	
		C3428	F1G1C104A146	CAPACITOR	1	
		C3429	F1G1C104A146	CAPACITOR	1	
		C3430	F1G1C104A146	CAPACITOR	1	
		C3431	F1G1C104A146	CAPACITOR	1	
		C3432	F1G0J1050007	CAPACITOR	1	
		C3433	F1G1C104A146	CAPACITOR	1	
		C3434	F1G1C104A146	CAPACITOR	1	
		C3435	F1J0J1060009	CAPACITOR	1	
		C3437	F1G1C104A146	CAPACITOR	1	
		C3438	F1G1C104A146	CAPACITOR	1	
		C3439	F1G1C104A146	CAPACITOR	1	
		C3443	F1G0J1050007	CAPACITOR	1	
		C3444	F1G1C104A146	CAPACITOR	1	
		C3447	F1G0J1050007	CAPACITOR	1	
		C3449	F1G1C104A146	CAPACITOR	1	
		C3450	F1G1C104A146	CAPACITOR	1	
		C3451	F1G1C104A146	CAPACITOR	1	
		C3452	F1G1C104A146	CAPACITOR	1	
		C3453	F1G1H472B014	CAPACITOR	1	
		C3454	F1G1C104A146	CAPACITOR	1	
		C3455	F1G1E103A144	CAPACITOR	1	
		C3456	F1G1C104A146	CAPACITOR	1	
		C3457	F1G1E103A144	CAPACITOR	1	
		C3461	F1G1E103A144	CAPACITOR	1	
		C3462	F1G1C104A146	CAPACITOR	1	

		C3463	F1G1C104A146	CAPACITOR	1	
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Model No. : HC-V385 Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C3464	F1J0J1060009	CAPACITOR	1	
		C3465	F1G1C104A146	CAPACITOR	1	
		C3466	F1G0J1050007	CAPACITOR	1	
		C3469	F1G1C104A146	CAPACITOR	1	
		C3474	F1G1H332A946	CAPACITOR	1	
		C3476	F3G0J1070004	CAPACITOR	1	
		C3477	F1J0J106A020	CAPACITOR	1	
		C3479	F1J0J106A020	CAPACITOR	1	
		C3480	F1G0J1050007	CAPACITOR	1	
		C3481	F1G1C104A146	CAPACITOR	1	
		C3484	F1G1H332A946	CAPACITOR	1	
		C3485	F1G1H332A946	CAPACITOR	1	
		C3486	F1G1H332A946	CAPACITOR	1	
		C3487	F1G0J1050007	CAPACITOR	1	
		C3488	F1G1C104A146	CAPACITOR	1	
		C3489	F1J0J106A020	CAPACITOR	1	
		C3490	F1J0J106A020	CAPACITOR	1	
		C3491	F1G1C104A146	CAPACITOR	1	
		C3492	F1G1C104A146	CAPACITOR	1	
		C3495	F1J0J1060009	CAPACITOR	1	
		C3496	F1G1C104A146	CAPACITOR	1	
		C3497	F1G1C104A146	CAPACITOR	1	
		C3701	F1G1H471A946	CAPACITOR	1	
		C3702	F1J1A106A043	CAPACITOR	1	
		C3703	F1G1E103A144	CAPACITOR	1	
		C3704	F1G1E103A144	CAPACITOR	1	
		C3705	F1G1C104A146	CAPACITOR	1	
		C3706	F1G1C104A146	CAPACITOR	1	
		C3707	F1H0J2250008	CAPACITOR	1	
		C3708	F1H0J2250008	CAPACITOR	1	
		C3709	F1G1C104A146	CAPACITOR	1	
		C3710	F1J0J2260004	CAPACITOR	1	
		C3711	F1G1C104A146	CAPACITOR	1	
		C3712	F1G1C104A146	CAPACITOR	1	
		C3713	F1G1H471A946	CAPACITOR	1	
		C3715	F1G0J1050007	CAPACITOR	1	
		C3716	F1G1C104A146	CAPACITOR	1	
		C3719	F1G1C104A146	CAPACITOR	1	
		C3906	F1G1C104A146	CAPACITOR	1	
		C3908	F1G1E103A144	CAPACITOR	1	
		C3909	F1G1C104A146	CAPACITOR	1	
		C3910	F1G1E103A144	CAPACITOR	1	
		C3911	F1G0J1050007	CAPACITOR	1	
		C3927	F1J0J2260004	CAPACITOR	1	
		C3957	F1G1C104A146	CAPACITOR	1	
		C3958	F1G1C104A146	CAPACITOR	1	
		C3966	F1G0J1050007	CAPACITOR	1	
		C6001	F1G1E1040001	CAPACITOR	1	
		C6002	F1G1C104A146	CAPACITOR	1	
		C6005	F1H1C105A167	CAPACITOR	1	
		C6018	F1G1C104A146	CAPACITOR	1	
		C6023	F1G1C104A146	CAPACITOR	1	
		C6024	F1H1C105A167	CAPACITOR	1	
		C6031	F1G0J1050007	CAPACITOR	1	
		C6033	F1G0J1050007	CAPACITOR	1	
		C6035	F1G1H472B014	CAPACITOR	1	
		C6038	F1G1H472B014	CAPACITOR	1	
		C6401	F1J1A106A043	CAPACITOR	1	
		C6403	F1G1C104A146	CAPACITOR	1	
		C6404	F1G1C104A146	CAPACITOR	1	
		C6405	F1G1C104A146	CAPACITOR	1	

		C6406	F1G1C104A146	CAPACITOR	1	
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Model No. : HC-V385 Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		C6407	F1G1C104A146	CAPACITOR	1	
		C6408	F1G1C104A146	CAPACITOR	1	
		C6412	F1H1E105A116	CAPACITOR	1	
		D901	DZ2J200M0L	DIODE	1	E.S.D.
		D902	B3AFB0000645	DIODE	1	E.S.D.
		D903	B3AFB0000645	DIODE	1	E.S.D.
		D904	B3AFB0000645	DIODE	1	E.S.D.
		D905	B3AFB0000645	DIODE	1	E.S.D.
		D906	B3AFB0000645	DIODE	1	E.S.D.
		D1271	B0ACRC000001	DIODE	1	E.S.D.
		D1471	DZ2J075M0L	DIODE	1	E.S.D.
		D1503	B0JCMC000019	DIODE	1	E.S.D.
		D1505	DB2S31100L	DIODE	1	E.S.D.
		D2301	DB2S31100L	DIODE	1	E.S.D.
		D6401	B3AAB0000343	LED	1	E.S.D.
		ET6001	K4ZZ01000208	EARTH TERMINAL	1	
		FL3401	F1H0J105A037	CAPACITOR	1	
		FL3402	F1H0J105A037	CAPACITOR	1	
		FL6001	JOZZB0000148	FILTER	1	
		FL6002	JOZZB0000148	FILTER	1	
		FL6004	EXC14CE900U	FILTER	1	
		FL6005	EXC14CE900U	FILTER	1	
		FL6006	EXC14CE900U	FILTER	1	
		FP301	K1MY33AA0199	CONNECTOR 33P	1	
		FP902	K1MY39BA0667	CONNECTOR 39P	1	
		FP904	K1MY51BA0575	CONNECTOR 51P	1	
		FP905	K1MY04BA0633	CONNECTOR 4P	1	
		FP6003	K1MY06BA0641	CONNECTOR 6P	1	
		FP6005	K1MY21BA0605	CONNECTOR 21P	1	
		FP6008	K1MY39AA0199	CONNECTOR 39P	1	
		FP6010	K1MY37BA0667	CONNECTOR 37P	1	
		FP6402	K1MY10BA0633	CONNECTOR 10P	1	
		HS3901	K1NA09E00153	MEMORY CARD CONNECTOR	1	
		IC301	C0DBGFC00008	IC	1	E.S.D.
		IC302	C0JBAA000608	IC	1	E.S.D.
		IC701	C1AB00003719	IC	1	E.S.D.
		IC703	C0DBGYY00909	IC	1	E.S.D.
		IC704	VUEALLPT080	IC	1	E.S.D. [INBD]
		IC705	C1AB00003450	IC	1	E.S.D.
		IC751	EWTS9RCL1A	IC	1	E.S.D. [INBD]
		IC761	C0ABGA000035	IC	1	E.S.D.
		IC901	C1CB00002847	IC	1	E.S.D.
		IC902	B4ZZ00000031	IC	1	E.S.D.
		IC1001	C1ZBZ0004885	IC	1	E.S.D.
		IC1221	C0DBZYY00724	IC	1	E.S.D.
		IC1222	C0EBY0002310	IC	1	E.S.D.
		IC1241	C0ZBZ0002264	IC	1	E.S.D.
		IC1261	C0DBGYY05584	IC	1	E.S.D.
		IC1262	C0ZBZ0002264	IC	1	E.S.D.
		IC1291	C0ZBZ0002264	IC	1	E.S.D.
		IC1341	C0DBGYY05590	IC	1	E.S.D.
		IC1381	C0DBGYY03698	IC	1	E.S.D.
		IC1392	C0DBGYY05582	IC	1	E.S.D.
		IC1421	C0DBGYY00936	IC	1	E.S.D.
		IC1471	C0DBZYY00793	IC	1	E.S.D.
		IC1503	C0DBDYY00054	IC	1	E.S.D.
		IC1551	VUEALLPT082	IC	1	E.S.D. [INBD]
		IC2301	C0EBY0002322	IC	1	E.S.D.
		IC3401	VSG1024	IC	1	E.S.D.
		IC3404	DV91000059A	IC	1	E.S.D.
		IC3406	C0EBY0002365	IC	1	E.S.D.

		IC3412	C0JBAF000805	IC	1	E.S.D.
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Model No. : HC-V385 Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		IC3413	C0JBAA000608	IC	1	E.S.D.
		IC3414	C0EBY0002355	IC	1	E.S.D.
		IC3701	VUEALLPT077	IC	1	E.S.D. [INBD]
		IC3702	C0ZBZ0001730	IC	1	E.S.D.
		IC6401	EWTS9PDL1A	IC	1	E.S.D. [INBD]
		IC6411	VUEALLPT053	IC	1	E.S.D. [INBD]
		IP6401	ERBRD4R00X	IC PROTECTOR	1	
		IP6701	K5H402YA0080	IC PROTECTOR	1	
		JK6001	K2HZ105B0012	JACK	1	
		JK6003	K1FA119E0020	JACK	1	
		JK6004	K2HC106E0009	JACK	1	
		JK6401	K2EB2E000009	JACK	1	
		JK6701	K4ZZ04000056	JACK	1	
		L301	G1C100KA0115	INDUCTOR	1	
		L302	G1C100MA0408	INDUCTOR	1	
		L303	G1C100MA0408	INDUCTOR	1	
		L1211	G1C4R7ZA0390	INDUCTOR	1	
		L1221	G1C3R3MA0477	INDUCTOR	1	
		L1231	G1C3R3MA0477	INDUCTOR	1	
		L1241	G1C4R7MA0477	INDUCTOR	1	
		L1251	G1C4R7MA0477	INDUCTOR	1	
		L1261	G1C4R7ZA0240	INDUCTOR	1	
		L1271	G1C6R8MA0478	INDUCTOR	1	
		L1281	G1C2R2MA0477	INDUCTOR	1	
		L1291	G1C1R0MA0535	INDUCTOR	1	
		L1501	G1C4R7ZA0240	INDUCTOR	1	
		L3406	G1C4R7MA0495	INDUCTOR	1	
		L3408	G1C4R7MA0408	INDUCTOR	1	
		L3409	G1C100MA0495	INDUCTOR	1	
		L3410	G1C100MA0495	INDUCTOR	1	
		L3411	G1C4R7MA0408	INDUCTOR	1	
		L3412	G1C4R7MA0495	INDUCTOR	1	
		L3415	G1C4R7MA0495	INDUCTOR	1	
		LB301	J0JBC0000099	FILTER	1	
		LB901	J0JBC0000099	FILTER	1	
		LB902	J0JHC0000078	FILTER	1	
		LB3401	J0JBC0000099	FILTER	1	
		LB3404	J0JBC0000099	FILTER	1	
		LB6005	J0JJC0000015	FILTER	1	
		LB6013	J0JCC0000276	FILTER	1	
		LB6014	J0JCC0000276	FILTER	1	
		LB6015	J0JCC0000276	FILTER	1	
		LB6401	J0JJC0000015	FILTER	1	
		LB6406	J0JCC0000276	FILTER	1	
		LB6701	J0JCC0000276	FILTER	1	
		LB6702	J0JCC0000276	FILTER	1	
		LB6703	J0JJC0000015	FILTER	1	
		P6003	K1KY06BA0495	CONNECTOR 6P	1	
		P6401	K1KA02BA0014	CONNECTOR 2P	1	
		P6701	K1KY06BA0495	CONNECTOR 6P	1	
		PF6001	K1KY50BA0082	CONNECTOR 50P	1	
		PS6401	K1KB50AA0094	CONNECTOR 50P	1	
		Q775	B1ABCF000316	TRANSISTOR	1	E.S.D.
		Q1001	B1ABCF000316	TRANSISTOR	1	E.S.D.
		Q1471	MTM761230LBF	TRANSISTOR	1	E.S.D.
		Q1501	B1CHQD000012	TRANSISTOR	1	E.S.D.
		Q1502	MTM684110LBF	TRANSISTOR	1	E.S.D.
		Q1503	MTM761230LBF	TRANSISTOR	1	E.S.D.
		Q1504	B1CFJD000007	TRANSISTOR	1	E.S.D.
		Q3401	B1CFGD000003	TRANSISTOR	1	E.S.D.
		Q3402	B1CFJD000007	TRANSISTOR	1	E.S.D.

		Q3701	B1ABCF000316	TRANSISTOR	1	E.S.D.
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Model No. : HC-V385 Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		Q3901	MTM761230LBF	TRANSISTOR	1	E.S.D.
		QR1001	B1GDCFY0152	TRANSISTOR-RESISTOR	1	E.S.D.
		QR1002	B1GDCFY0152	TRANSISTOR-RESISTOR	1	E.S.D.
		QR1003	B1GBCFY0284	TRANSISTOR-RESISTOR	1	E.S.D.
		QR1101	B1GBCFY0284	TRANSISTOR-RESISTOR	1	E.S.D.
		QR1221	B1GDCFY0152	TRANSISTOR-RESISTOR	1	E.S.D.
		QR1222	B1GBCFY0284	TRANSISTOR-RESISTOR	1	E.S.D.
		QR1471	B1GBCFY0284	TRANSISTOR-RESISTOR	1	E.S.D.
		QR1501	B1GBCFY0284	TRANSISTOR-RESISTOR	1	E.S.D.
		QR1502	B1GDCFY0207	TRANSISTOR-RESISTOR	1	E.S.D.
		QR1503	B1GDCFY0207	TRANSISTOR-RESISTOR	1	E.S.D.
		QR2308	B1GDCFY0207	TRANSISTOR-RESISTOR	1	E.S.D.
		QR2389	B1GBCFY0284	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3401	B1GBCFY0224	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3402	B1GDCFY0207	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3403	B1GBCFY0284	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3410	B1GBCFY0234	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3411	B1GDCFY0189	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3412	B1GBCFY0234	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3413	B1GDCFY0189	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3415	B1GDCFY0151	TRANSISTOR-RESISTOR	1	E.S.D.
		QR3416	B1GDCFY0151	TRANSISTOR-RESISTOR	1	E.S.D.
		QR6006	B1GDCFY0151	TRANSISTOR-RESISTOR	1	E.S.D.
		QR6007	B1GDCFY0152	TRANSISTOR-RESISTOR	1	E.S.D.
		QR6008	B1GBCFY0217	TRANSISTOR-RESISTOR	1	E.S.D.
		QR6401	B1GDCFY0180	TRANSISTOR-RESISTOR	1	E.S.D.
		QR6402	B1GDCFY0180	TRANSISTOR-RESISTOR	1	E.S.D.
		R304	D0GA272JA023	RESISTOR	1	
		R305	D0GA390JA023	RESISTOR	1	
		R505	D0GA222JA023	RESISTOR	1	
		R508	D0GA100JA023	RESISTOR	1	
		R509	D0GA100JA023	RESISTOR	1	
		R510	D0GA100JA023	RESISTOR	1	
		R511	D0GA100JA023	RESISTOR	1	
		R715	D0GA101JA039	RESISTOR	1	
		R716	D0GA102JA039	RESISTOR	1	
		R717	D0GA682JA023	RESISTOR	1	
		R719	D0GAR00J0005	RESISTOR	1	
		R761	D0GA223JA023	RESISTOR	1	
		R765	D1BA2702A022	RESISTOR	1	
		R766	D1BA1502A022	RESISTOR	1	
		R767	D0GA222JA023	RESISTOR	1	
		R768	D1BA3302A022	RESISTOR	1	
		R771	D0GA221JA023	RESISTOR	1	
		R772	D0GA473JA039	RESISTOR	1	
		R773	D0GA221JA023	RESISTOR	1	
		R774	D0GA473JA039	RESISTOR	1	
		R775	D0GA221JA023	RESISTOR	1	
		R776	D0GA473JA039	RESISTOR	1	
		R777	D0GA472JA023	RESISTOR	1	
		R791	D0GA391JA023	RESISTOR	1	
		R792	D0GA391JA023	RESISTOR	1	
		R793	D0GA221JA023	RESISTOR	1	
		R913	D0GA151JA023	RESISTOR	1	
		R914	D0GA151JA023	RESISTOR	1	
		R915	D0GA101JA039	RESISTOR	1	
		R1003	D0GA103JA039	RESISTOR	1	
		R1004	D0GA473JA039	RESISTOR	1	
		R1005	D0GA154JA023	RESISTOR	1	
		R1006	D0GA104JA039	RESISTOR	1	
		R1101	D0GA120JA023	RESISTOR	1	

		R1107	DOGA103JA039	RESISTOR	1	
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Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R1221	D0GA472JA023	RESISTOR	1	
		R1222	D0GA104JA039	RESISTOR	1	
		R1223	D0GA224JA023	RESISTOR	1	
		R1241	D0GA104JA039	RESISTOR	1	
		R1252	D1BA3303A022	RESISTOR	1	
		R1253	D1BA4702A022	RESISTOR	1	
		R1254	D1BA2203A022	RESISTOR	1	
		R1262	D1BA1002A022	RESISTOR	1	
		R1263	D1BA1501A022	RESISTOR	1	
		R1264	D1BA2202A022	RESISTOR	1	
		R1271	D1JBR179A023	FUSING RESISTOR 0.179	1	
		R1282	D1BA1302A022	RESISTOR	1	
		R1292	D1BA5102A022	RESISTOR	1	
		R1293	D1BA6201A022	RESISTOR	1	
		R1294	D1BA2203A022	RESISTOR	1	
		R1296	D0GA473JA039	RESISTOR	1	
		R1297	D0GA473JA039	RESISTOR	1	
		R1382	D0GA222JA023	RESISTOR	1	
		R1426	D0GA103JA039	RESISTOR	1	
		R1471	D0GA163JA023	RESISTOR	1	
		R1472	D0GA102JA039	RESISTOR	1	
		R1473	D0GA473JA039	RESISTOR	1	
		R1474	D0GA104JA039	RESISTOR	1	
		R1501	D0GA105JA023	RESISTOR	1	
		R1513	D1BA1503A022	RESISTOR	1	
		R1515	D1BA1203A022	RESISTOR	1	
		R1516	D0GA102JA039	RESISTOR	1	
		R1522	D1BA1203A022	RESISTOR	1	
		R1523	D1BA1803A022	RESISTOR	1	
		R1525	D1BA2202A022	RESISTOR	1	
		R1526	D1BDR100A111	RESISTOR	1	
		R1529	D0GA101JA039	RESISTOR	1	
		R1531	D0GA100JA023	RESISTOR	1	
		R1535	D0GA472JA023	RESISTOR	1	
		R1551	D0GA331JA023	RESISTOR	1	
		R2301	D0GA473JA039	RESISTOR	1	
		R2304	D0GA102JA039	RESISTOR	1	
		R2312	D0GA472JA023	RESISTOR	1	
		R3400	D1BA1801A022	RESISTOR	1	
		R3401	D1BA1801A022	RESISTOR	1	
		R3402	D0GA681JA023	RESISTOR	1	
		R3406	D0GA121JA023	RESISTOR	1	
		R3409	D0GA560JA023	RESISTOR	1	
		R3411	D1BA3901A022	RESISTOR	1	
		R3413	D1BA1801A022	RESISTOR	1	
		R3414	D1BA1801A022	RESISTOR	1	
		R3417	D0GA122JA023	RESISTOR	1	
		R3418	D0GA122JA023	RESISTOR	1	
		R3419	D0GA681JA023	RESISTOR	1	
		R3424	D0GA105JA023	RESISTOR	1	
		R3426	D0GA470JA023	RESISTOR	1	
		R3427	D1BA2400A022	RESISTOR	1	
		R3428	D0GA102JA039	RESISTOR	1	
		R3429	D0GA273JA023	RESISTOR	1	
		R3430	D0GA102JA039	RESISTOR	1	
		R3431	D1BA2400A022	RESISTOR	1	
		R3432	D1BA4701A022	RESISTOR	1	
		R3433	D0GA472JA023	RESISTOR	1	
		R3436	D0GA472JA023	RESISTOR	1	
		R3437	D0GA182JA023	RESISTOR	1	
		R3438	D0GA182JA023	RESISTOR	1	

		R3439	D1BA2400A022	RESISTOR	1	
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Model No. : HC-V385 Parts List

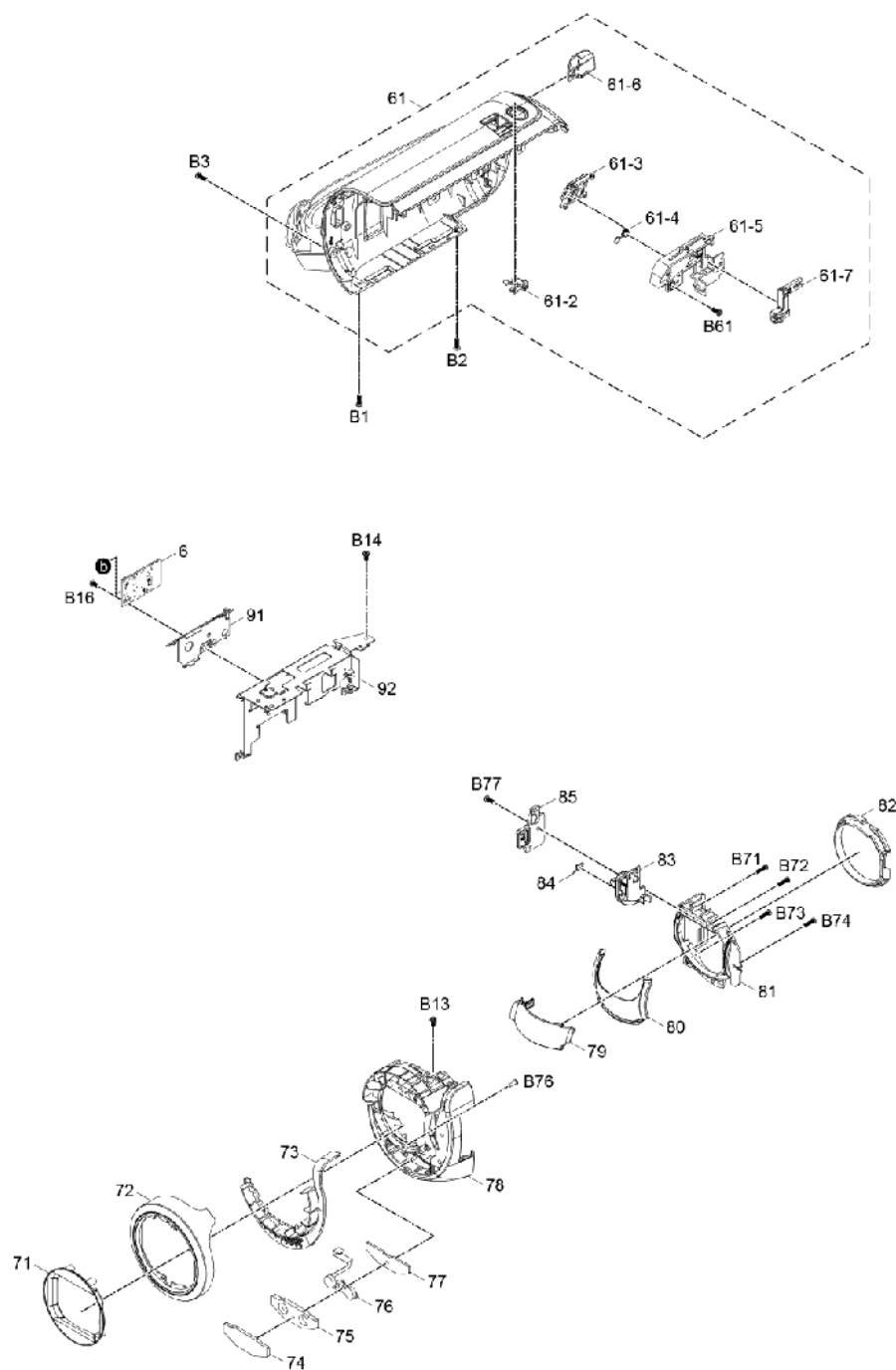
Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		R3440	D0GA473JA039	RESISTOR	1	
		R3441	D0GA473JA039	RESISTOR	1	
		R3442	D0GA680JA023	RESISTOR	1	
		R3443	D0GA470JA023	RESISTOR	1	
		R3444	D1BA2400A022	RESISTOR	1	
		R3448	D1BA6201A022	RESISTOR	1	
		R3450	D1BA1801A022	RESISTOR	1	
		R3451	D1BA1801A022	RESISTOR	1	
		R3453	D1BA1801A022	RESISTOR	1	
		R3454	D1BA1801A022	RESISTOR	1	
		R3457	D0GA152JA023	RESISTOR	1	
		R3458	D0GA102JA039	RESISTOR	1	
		R3461	D0GA104JA039	RESISTOR	1	
		R3462	D0GA102JA039	RESISTOR	1	
		R3463	D0GA104JA039	RESISTOR	1	
		R3466	D0GA473JA039	RESISTOR	1	
		R3467	D1BA1802A022	RESISTOR	1	
		R3468	D1BA1002A022	RESISTOR	1	
		R3470	D1BA2000A022	RESISTOR	1	
		R3472	D1BA6801A022	RESISTOR	1	
		R3476	D1BA2000A022	RESISTOR	1	
		R3486	D0GA270JA023	RESISTOR	1	
		R3487	D0GA270JA023	RESISTOR	1	
		R3499	D0GAR00J0005	RESISTOR	1	
		R3506	D0GA102JA039	RESISTOR	1	
		R3507	D0GA102JA039	RESISTOR	1	
		R3508	D0GA102JA039	RESISTOR	1	
		R3701	D0HB392ZA002	RESISTOR	1	
		R3702	D0HB392ZA002	RESISTOR	1	
		R3703	D0GA472JA023	RESISTOR	1	
		R3704	D0GA102JA039	RESISTOR	1	
		R3901	D0GA560JA023	RESISTOR	1	
		R3902	D0GA680JA023	RESISTOR	1	
		R3903	D0GA103JA039	RESISTOR	1	
		R3904	D0GA104JA039	RESISTOR	1	
		R3906	D0GA102JA039	RESISTOR	1	
		R3907	D0GA102JA039	RESISTOR	1	
		R3909	D0GA104JA039	RESISTOR	1	
		R3910	D0GB150JA065	RESISTOR	1	
		R3953	D0GA103JA039	RESISTOR	1	
		R6001	D1JBR045A055	FUSING RESISTOR 0.045	1	
		R6002	D0GA103JA039	RESISTOR	1	
		R6006	D0GA100JA023	RESISTOR	1	
		R6007	D0GA100JA023	RESISTOR	1	
		R6009	D0GA100JA023	RESISTOR	1	
		R6010	D0GA100JA023	RESISTOR	1	
		R6020	D0GA102JA039	RESISTOR	1	
		R6021	D0GA223JA023	RESISTOR	1	
		R6022	D0GA223JA023	RESISTOR	1	
		R6025	D0GA221JA023	RESISTOR	1	
		R6026	D0GA221JA023	RESISTOR	1	
		R6027	D1BA68R0A022	RESISTOR	1	
		R6401	D1BA1002A022	RESISTOR	1	
		R6402	D1BA1002A022	RESISTOR	1	
		R6403	D0GA102JA039	RESISTOR	1	
		R6404	D0GA181JA023	RESISTOR	1	
		R6405	D0GA470JA023	RESISTOR	1	
		R6406	D1BA4701A022	RESISTOR	1	
		R6407	D1BA1502A022	RESISTOR	1	
		R6408	D1BA4701A022	RESISTOR	1	
		R6409	D1BA1502A022	RESISTOR	1	

		R6410	DOGA102JA039	RESISTOR	1	
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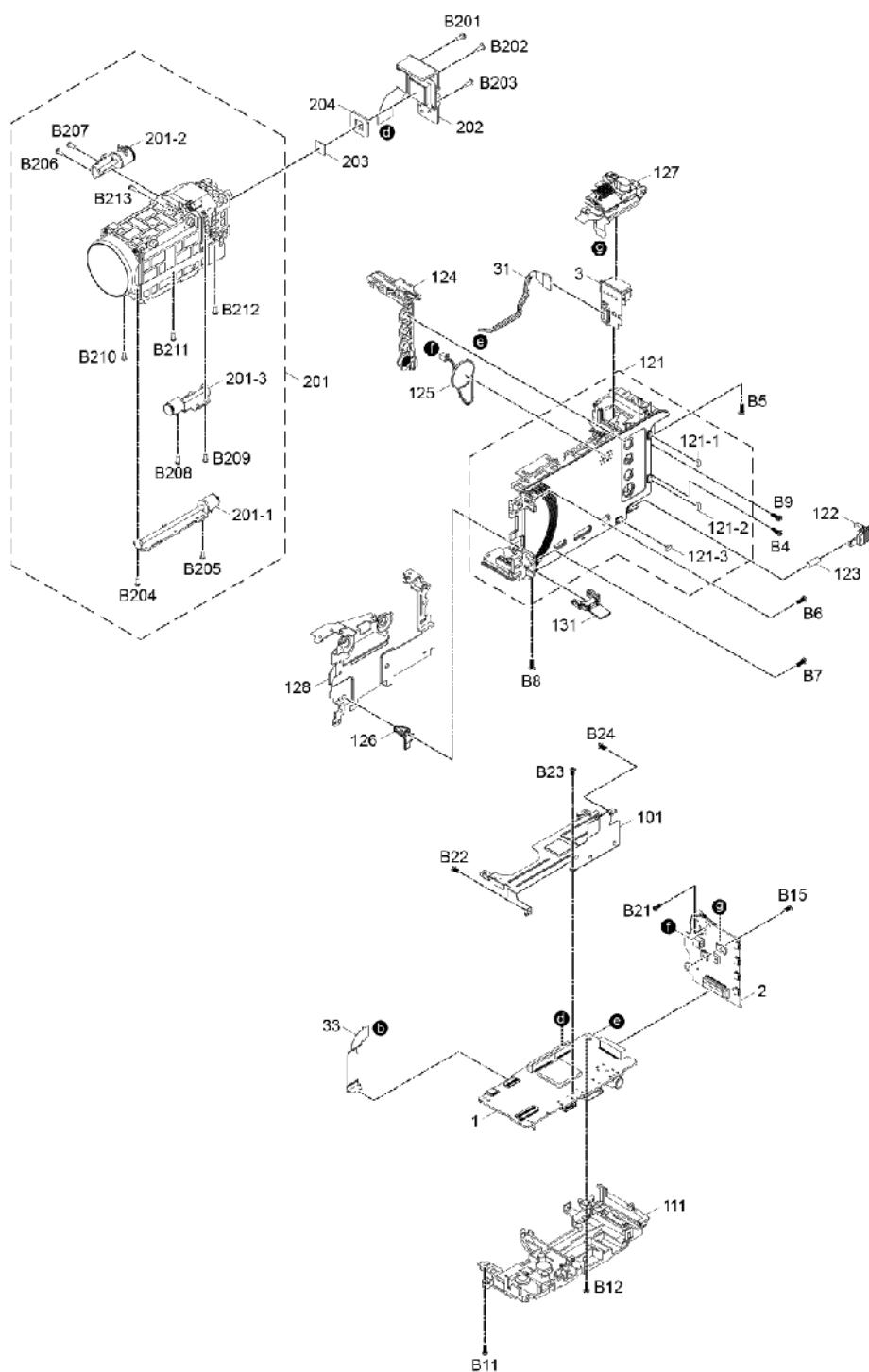
Model No. : HC-V385 Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		RX901	D1H88204A042	RESISTOR NETWORKS	1	
		RX902	D1H88204A042	RESISTOR NETWORKS	1	
		RX903	D1H88204A042	RESISTOR NETWORKS	1	
		RX904	D1H88204A042	RESISTOR NETWORKS	1	
		RX3401	D1H84704A042	RESISTOR NETWORKS	1	
		RX3404	D1H81034A042	RESISTOR NETWORKS	1	
		RX3405	D1H81034A042	RESISTOR NETWORKS	1	
		RX3407	D1H85604A042	RESISTOR NETWORKS	1	
		RX3408	D1H84734A042	RESISTOR NETWORKS	1	
		RX3409	D1H84734A042	RESISTOR NETWORKS	1	
		RX3414	D1H84734A042	RESISTOR NETWORKS	1	
		RX3415	D1H81034A042	RESISTOR NETWORKS	1	
		RX3418	D1H84724A042	RESISTOR NETWORKS	1	
		RX3419	D1H81034A042	RESISTOR NETWORKS	1	
		RX3420	D1H81034A042	RESISTOR NETWORKS	1	
		RX3421	D1H81034A042	RESISTOR NETWORKS	1	
		RX3901	D1H86804A042	RESISTOR NETWORKS	1	
		RX3902	D1H81034A042	RESISTOR NETWORKS	1	
		RX3952	D1H81034A042	RESISTOR NETWORKS	1	
		S6001	ESE18L12BXFD	SWITCH	1	
		S6401	K0H1BA000580	SWITCH	1	
		S6402	K0H1BA000580	SWITCH	1	
		S6403	K0H1BA000580	SWITCH	1	
		S6404	K0F111A00475	SWITCH	1	
		S6405	K0H1BA000580	SWITCH	1	
		VA501	D4ED18R00008	VARISTOR	1	
		VA502	D4ED18R00008	VARISTOR	1	
		VA503	D4ED18R00008	VARISTOR	1	
		VA504	D4ED18R00008	VARISTOR	1	
		VA906	D4ED16R80001	VARISTOR	1	
		VA1502	D4ED1270A011	VARISTOR	1	
		VA3701	D4EDY1310001	VARISTOR	1	
		VA3702	D4EDY1310001	VARISTOR	1	
		VA6401	D4ED1270A011	VARISTOR	1	
		VA6402	D4ED18R00008	VARISTOR	1	
		VA6405	D4EDY1310001	VARISTOR	1	
		VA6406	D4EDY1310001	VARISTOR	1	
		VA6407	D4ED18R00008	VARISTOR	1	
		VA6701	D4EDY1310001	VARISTOR	1	
		VA6702	D4EDY1310001	VARISTOR	1	
		X301	H1A6005B0019	CRYSTAL OSCILLATOR	1	
		X2303	H0J327200085	CRYSTAL OSCILLATOR	1	
		X3401	H0J480500048	CRYSTAL OSCILLATOR	1	

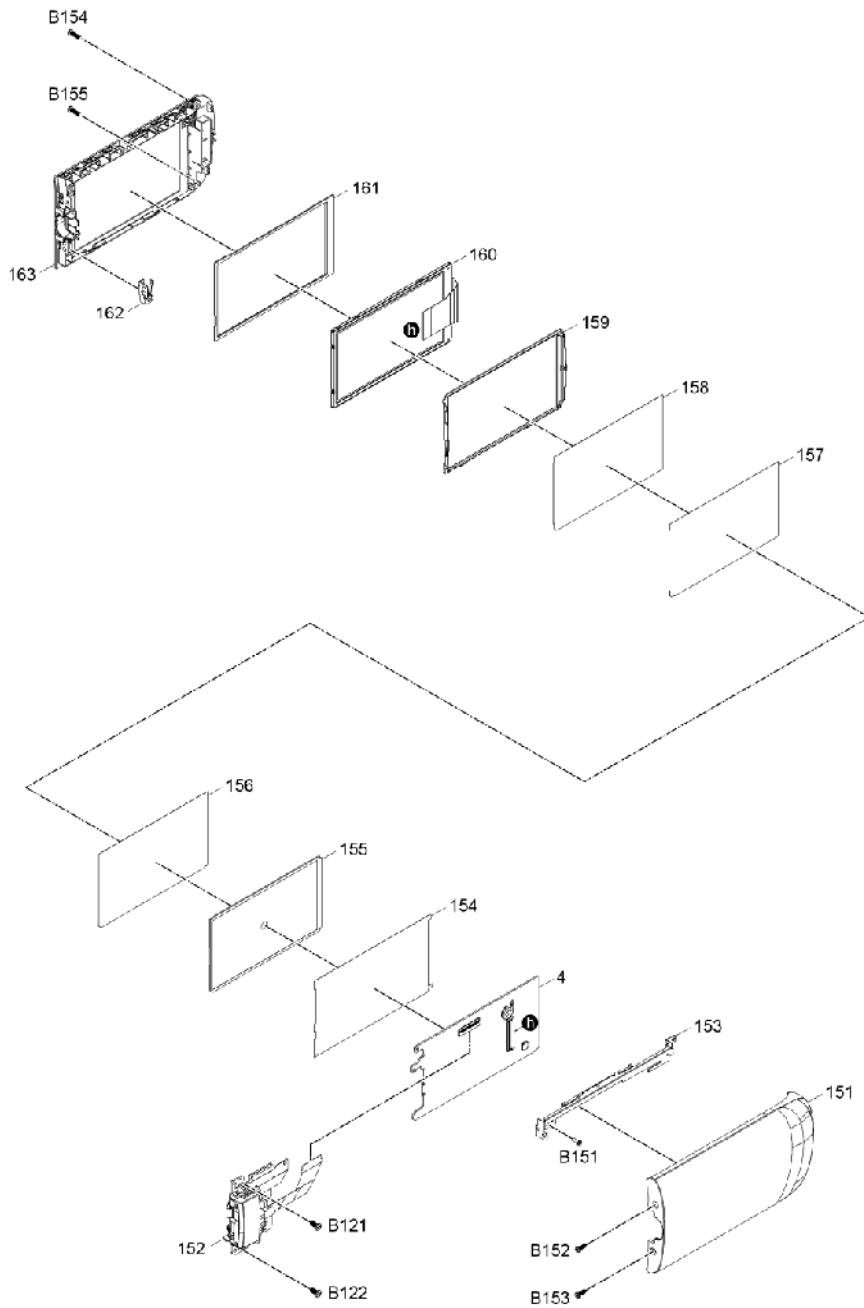
Model No. : HC-V385 Frame and Casing Section (1)



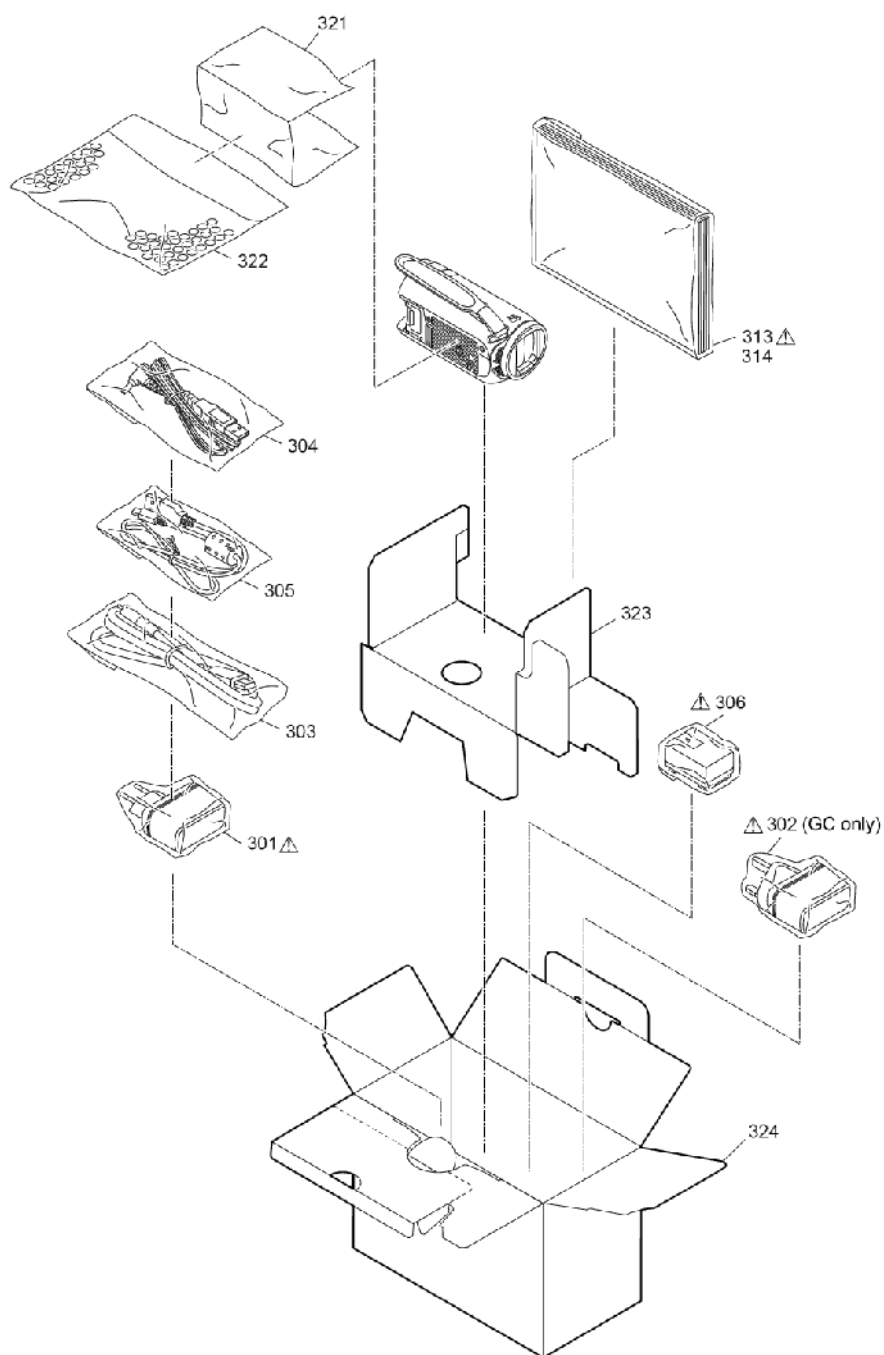
Model No. : HC-V385 Frame and Casing Section (2)



Model No. : HC-V385 LCD Section



Model No. : HC-V385 Packing Parts and Accessories Section



Model No. : HC-V385 Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		1	SEP0268AH	MAIN P.C.B.	1	(RTL) E.S.D.
		2	SEP0269AB	SD HOLDER P.C.B.	1	(RTL) E.S.D.
		3	VEP01A79B	BATT. CATCHER P.C.B.	1	(RTL) E.S.D.
		4	SEP0270AC	MONITOR P.C.B.	1	(RTL) E.S.D.
		6	VEP06G78J	Wi-Fi P.C.B.	1	E.S.D. (except GK)
		6	VEP06G78L	Wi-Fi P.C.B.	1	E.S.D. (GK)
		31	SEE0191	BATT. CATCHER WIRE	1	
		33	VWJ2378	Wi-Fi FPC	1	
		61	SYK1316	SIDE CASE-L UNIT	1	
		61-2	SGL0011	POWER PANEL LIGHT	1	
		61-3	SYK1238	DC JACK COVER UNIT	1	
		61-4	VMB4656-1	JACK DOOR SPRING	1	
		61-5	SGQ0278	JACK COVER PIECE	1	
		61-6	SGU0108	SS BUTTON	1	
		61-7	SGQ0279	SS LEVER	1	
		71	VGQ1H98-A	FLARE CUT PIECE	1	
		72	SGK0264K	FRONT ORNAMENT RING	1	
		73	SKK0350K	MIC COVER	1	
		74	SGQ0282	MIC SPONGE-F	1	
		75	SGQ0283	MIC SPONGE-M	1	
		76	L0CBAY000164	MICROPHONE UNITS	1	
		77	SGQ0284	MIC SPONGE-R	1	
		78	SKK0156K	FRONT CASE	1	
		79	SKF0003K	BARRIER F	1	
		80	SKF0005K	BARRIER R	1	
		81	SGQ0004-1	FRONT BASE	1	
		82	VMG2069	LENS DAMPER RUBBER	1	
		83	SGU0275	BARRIER LEVER	1	
		84	SMB0015	BARRIER SPRING	1	
		85	SGQ0005-1	SPRING HOLDER	1	
		91	SYK0104	HEAT RADIATION PLATE-L UNIT	1	
		92	SYQ0620	LENS FRAME UNIT	1	
		101	SYQ0125	HEAT RADIATION PLATE UNIT	1	
		111	SYK0716	BOTTOM FRAME UNIT	1	
		121	SYK0725	SIDE CASE-R UNIT	1	
		121-1	SGQ0007	LCD CUSHION	1	
		121-2	SGQ0007	LCD CUSHION	1	
		121-3	SGQ0007	LCD CUSHION	1	
		122	SGU0106	BATT. LOCK BUTTON	1	
		123	VMB4482	BATT. LOCK SPRING	1	
		124	SGU0107	SR OP BUTTON	1	
		125	L0AA01A00161	SPEAKER	1	
		126	SGQ0296	LCD LEVER	1	
		127	K0RE00300032	TOP OPERATION	1	
		128	SYQ0126	R FRAME UNIT	1	
		131	SGQ0335	SR SLIDE LEVER	1	
		151	1YM1385GNKZA	LCD CASE(T) UNIT	1	
		152	SYQ0621	LCD HINGE UNIT	1	
		153	SGF0035	LCD FRAME A	1	
		154	VGL1449	REFLECTION SHEET	1	
		155	VKW3518	LIGHT GUIDE PLATE	1	
		156	VGL1384	DIFFUSION SHEET	1	
		157	VGL1460	PRISM SHEET B	1	
		158	SGQ0313	PRISM SHEET A	1	
		159	SGQ0002	LGP HOLDER	1	
		160	L5BDDY00073	LCD	1	
		161	SGQ0001	TP SPACER	1	
		162	SGF0002	LCD FRAME B	1	
		163	SYK1313	LCD CASE(B) UNIT	1	*With a touch panel
		201	SXW0173	LENS UNIT	1	E.S.D.
		201-1	L6HAYYYB0008	2ND STEPPING MOTOR	1	

		201-2	L6HAYYYB0009	3RD STEPPING MOTOR	1	
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Model No. : HC-V385 Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		201-3	L6HAYYYB0010	FOCUS STEPPING MOTOR	1	
		202	SXQ0229	MOS UNIT	1	E.S.D.
		203	VDL2992	IR CUT GLASS	1	
		204	VMX4008	MOS CUSHION	1	
		B1	XQN16+BJ5FJK	SCREW	1	
		B2	XQN16+BJ5FJK	SCREW	1	
		B3	XQN16+BJ5FJK	SCREW	1	
		B4	XQN16+BJ5FJK	SCREW	1	
		B5	XQN16+BJ5FJK	SCREW	1	
		B6	XQN16+BJ5FJK	SCREW	1	
		B7	XQN16+BJ5FJK	SCREW	1	
		B8	XQN16+BJ5FJK	SCREW	1	
		B9	XQN16+BJ5FJK	SCREW	1	
		B11	XQN16+B5FJK	SCREW	1	
		B12	XQN16+B5FJK	SCREW	1	
		B13	XQN16+B3FN	SCREW	1	
		B14	XQN16+B3FN	SCREW	1	
		B15	VHD1919	SCREW	1	
		B16	XQN16+B3FN	SCREW	1	
		B21	VHD1919	SCREW	1	
		B22	XQN16+B3FN	SCREW	1	
		B23	VHD1919	SCREW	1	
		B24	XQN16+BJ4FN	SCREW	1	
		B61	XQN16+BJ5FJK	SCREW	1	
		B71	XQN14+BJ6FJK	SCREW	1	
		B72	XQN14+BJ6FJK	SCREW	1	
		B73	XQN14+BJ6FJK	SCREW	1	
		B74	XQN14+BJ6FJK	SCREW	1	
		B76	XQN14+BJ4FN	SCREW	1	
		B77	XQN16+BJ4FN	SCREW	1	
		B121	VHD1411	SCREW	1	
		B122	VHD1411	SCREW	1	
		B151	XQN14+BJ4FN	SCREW	1	
		B152	VHD1688	SCREW	1	
		B153	VHD1688	SCREW	1	
		B154	XQN16+BJ5FJK	SCREW	1	
		B155	XQN16+BJ5FJK	SCREW	1	
		B201	VHD2448	SCREW	1	
		B202	VHD2448	SCREW	1	
		B203	VHD2448	SCREW	1	
		B204	VHD2398	SCREW	1	
		B205	VHD2398	SCREW	1	
		B206	VHD2398	SCREW	1	
		B207	VHD2398	SCREW	1	
		B208	VHD2398	SCREW	1	
		B209	VHD2398	SCREW	1	
		B210	VHD2398	SCREW	1	
		B211	VHD2398	SCREW	1	
		B212	VHD2398	SCREW	1	
		B213	VHD2398	SCREW	1	
		301	VSK0815H	AC ADAPTOR	1	GK
		301	VSK0815K	AC ADAPTOR	1	GC
		301	VSK0815MA	AC ADAPTOR	1	GN
		301	VSK0815QA	AC ADAPTOR	1	GW
		302	VSK0815N	AC ADAPTOR	1	GC
		303	K1HY19YY0051	HDMI MINI CABLE	1	
		304	K2GHYY00002	DC CABLE	1	
		305	K2KYYY00236	USB CABLE	1	
		306	-----	BATTERY PACK	1	GC, GN, GW
		306	-----	BATTERY PACK	1	GK

		313	DVZX1123ZA	OPERATING INSTRUCTIONS (GC)	1	GC
		313	DVZX1124ZA	OPERATING INSTRUCTIONS (GW)	1	GW

Model No. : HC-V385 Parts List

Change	Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
		313	DVZX1125ZA	OPERATING INSTRUCTIONS (GN)	1	GN
		313	DVZX1126ZA	OPERATING INSTRUCTIONS (GK)	1	GK
		314	VPF1545	BAG, POLYETHYLENE	1	
		321	LSMF0623	PROTECT SHEET	1	
		322	VPF1560	PROTECT BAG	1	
		323	SPN0185	PAD	1	
		324	DVPK1056ZA	PACKING CASE	1	GC, GN, GW
		324	1PK1V385GKK	PACKING CASE UNIT	1	GK