

Service Manual

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ORDER NO.VMD0209050C8

Service Manual

Digital Video Camera/Recorder



- NV-MX500EG/NV-MX500B/NV-MX500EN/NV-MX500A/NV-MX500ENT

VOL.1

Q3-MECHANISM



SPECIFICATIONS
Digital Video Camera

ITEM	SPECIFICATION	ITEM	SPECIFICATION
POWER	Source: DC 7.9 / 7.2 V Consumption: Recording 4.9 W (When using Viewfinder) 5.8 W (When using LCD Monitor)	STANDARD ILLUMINATION	1,400 lx
		MINIMUM REQUIRED ILLUMINATION	10 lx (Low Light Mode)
RECORDING FORMAT	Mini DV (Consumer-use Digital Video SD Format)	USB / Mini System(E)	Card reader / writer function, USB 2.0 compliant (maximum 12Mbps) No copyright protection support / Mini System editing terminal
TAPE USED	6.35 mm digital video tape		
RECORDING / PLAYBACK TIME	SP mode: 80 min. with DVM90 LP mode: 120 min. with DVM80	DIGITAL STILL PICTURE	Digital Still Picture Output, Control Signal Input / Output (Transfer rate: max. 115 kbps)
CAMERA	Filter Diameter: 43.0 mm	DIGITAL INTERFACE	DV Input/Output Terminal (IEEE 1394, 4-pin)
	Zoom: 10:1 Power Zoom	MICROPHONE	Stereo
	Monitor: 2.5-inch LCD	SPEAKER	1 round speaker (ø20 mm)
	Lens: Auto Iris, F1.6, Focal Length; 2.85 - 28.5 mm Macro (Wide Range Macro)	VIDEO FLASH	GN 6
	Image Sensor: 1/6-inch CCD Image Sensor	OPERATING TEMPERATURE	0 - 40 °C
	Viewfinder: Colour Electronic Viewfinder	OPERATING HUMIDITY	10 - 80 %
VIDEO	Recording System: Digital Component	WEIGHT	Approx. 750 g(without Battery and DV Cassette) Approx. 845 g(with CGR-D06R and DVM60)
	Television System: CCIR; 625 Lines, 50 Fields PAL Colour Signal	DIMENSIONS	Approx. 74.5 (W) x 90.6 (H) x 179 (D) mm
	Video Output Level: 1.0 Vp-p, 75Ω	STANDARD ACCESSORIES	1 pc. AC Adaptor
	S-Video Output Level: Y Output; 1.0 Vp-p, 75Ω C Output; 0.3 Vp-p, 75Ω		1 pc. Battery Pack Unit
	Video Input Level: 1.0 Vp-p, 75Ω		1 pc. DC Cable
S-Video Input Level: Y Input; 1.0 Vp-p, 75Ω C Input; 0.3 Vp-p, 75Ω	1 pc. AC Cord ; NV-MX500EG/EN/A/ENT		
AUDIO	Recording System: PCM Digital Recording 16 bit (48 kHz/2 ch) 12 bit (32 kHz/4 ch)		1 pc. AC Cord ; NV-MX500B/EN/ENT
	Audio Output Level (Line): 316 mV, 600Ω		1 pc. AV Cable
	Audio Input Level (Line): 316 mV, 10 kΩ or more Mic Input: Mic sensitivity -50dB(0dB=1V/Pa,1kHz) (Stereo Mini Jack)		1 pc. Remote Controller
CARD MEMORY FUNCTIONS	Recording Media: SD Memory Card, MultiMediaCard Image Compression: JPEG Video Compression: MPEG4 Still Image Size: Mega-Pixel Recording; 2048 X 1496 (1.23 million pixels) VGA Recording; 640 X 480 Sound Compression: G.726		1 pc. Bottom-type Battery
			1 pc. Head Cleaner ; NV-MX500EN/A/ENT
			1 pc. Hood Cap Unit
			1 pc. CD-ROM For PC Kit
			1 pc. USB Cable
			1 pc. SD Card
			1 pc. Shoulder Belt
			1 pc. Operating Instructions
			1 pc. Operating Instructions For PC Kit
			1 pc. Universal Remote Controller
		SOLDER	This model use lead free solder (PbF).

Weight and dimensions are approximate values.
Specifications may change without prior notice.

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 **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.

Panasonic

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1 INTRODUCTION

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1.1 INTRODUCTION

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This service manual contains technical information which will 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, this information will be followed by supplement service manual to be filed with original service manual.

Information for Q-Mechanism should be referred to the another manual as below.

Order No. : [VMD0109026C8](#)

Note 1:

These movie cameras use AC Adaptor is VSK0581-A.

The service manual for AC Adaptor is separate volume.

Order number for AC Adaptor [VSK0581-A : VMD0105013C8](#)

Note 2:

1) This service manual does not contain the following information, because of the impossibility of servicing at component level.

1. Schematic Diagram, Block Diagram and C.B.A. layout of Main C.B.A./ Sub C.B.A.
2. Parts List for individual parts of Main C.B.A./ Sub C.B.A.
3. Exploded View and Parts List for individual parts of Mechanism Unit.

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

*Main C.B.A. (VEP03G20B)

*Sub C.B.A. (VEP23569B)

When a part replacement is required for repairing each Main C.B.A. and/ or Mechanism block, replace

the assembly parts.

(Main C.B.A., Sub C.B.A. and/ or Mechanism Unit)

The following circuits are contained in Main C.B.A.

1. Main Connection Circuit
2. Drive Circuit
3. Video 1 Circuit
4. Video 2 Circuit
5. Control Circuit
6. LCD Circuit
7. Head/ Rec Amp Circuit
8. Power Circuit
9. Ex. Input Circuit

The following circuits are contained in Sub C.B.A.

1. Sub Connection Circuit
2. Sensor Circuit
3. Lens Drive Circuit
4. Process Circuit
5. DSC Circuit

[About lead free solder \(PbF\)](#)

[Distinction of PbF PCB:](#)

PCBs (manufactured) using lead free solder will have a PbF stamp on the PCB.

Caution:

- Pb free solder has a higher melting point than standard solder; Typically the melting point is 50-70  F (30-40  C) higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control, please set it to 700    20  F (370    10  C).
- Pb free solder will tend to splash when heated too high (about 1100  F/ 600  C).

When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.

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1.2 FEATURE COMPARISON CHART

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FUNCTION	EG	B	EN	A	ENT
Card Function (Multi Media Card, SD Card)	•	•	•	•	•
External DV/ VIDEO Input	•	•	•	•	•
MPEG4 Recording	•	•	•	•	•

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2 CAUTION FOR AC CORD (VJA0940 TYPE)

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2.1 INFORMATION FOR YOUR SAFETY

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IMPORTANT

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

WARNING

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

CAUTION

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

FOR YOUR SAFETY

DO NOT REMOVE THE OUTER COVER

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

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2.2 CAUTION FOR AC MAINS LEAD

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For your safety, please read the following text carefully.

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

A 5-ampere fuse is fitted in this plug.

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

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



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

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

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

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

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

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

If in any doubt, please consult a qualified electrician.

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2.2.1 Important

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

Blue	Neutral
Brown	Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured **BLUE** must be connected to the terminal in the plug which is marked with the letter **N** or coloured **BLACK**. The wire which is coloured **BROWN** must be connected to the terminal in the plug which is marked with the letter **L** or coloured **RED**. Under no circumstances should either of these wires be connected to the earth terminal of the three pin plug, marked with the letter **E** or the Earth Symbol.

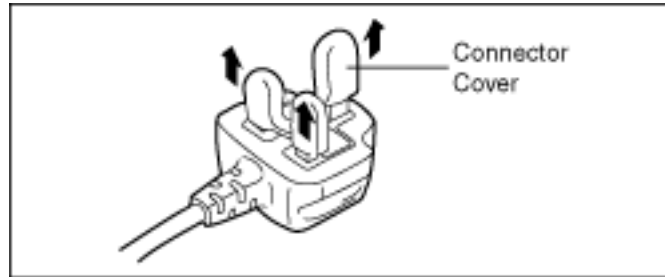
Earth Symbol	
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2.2.2 Before use

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remove the Connector Cover as follows.

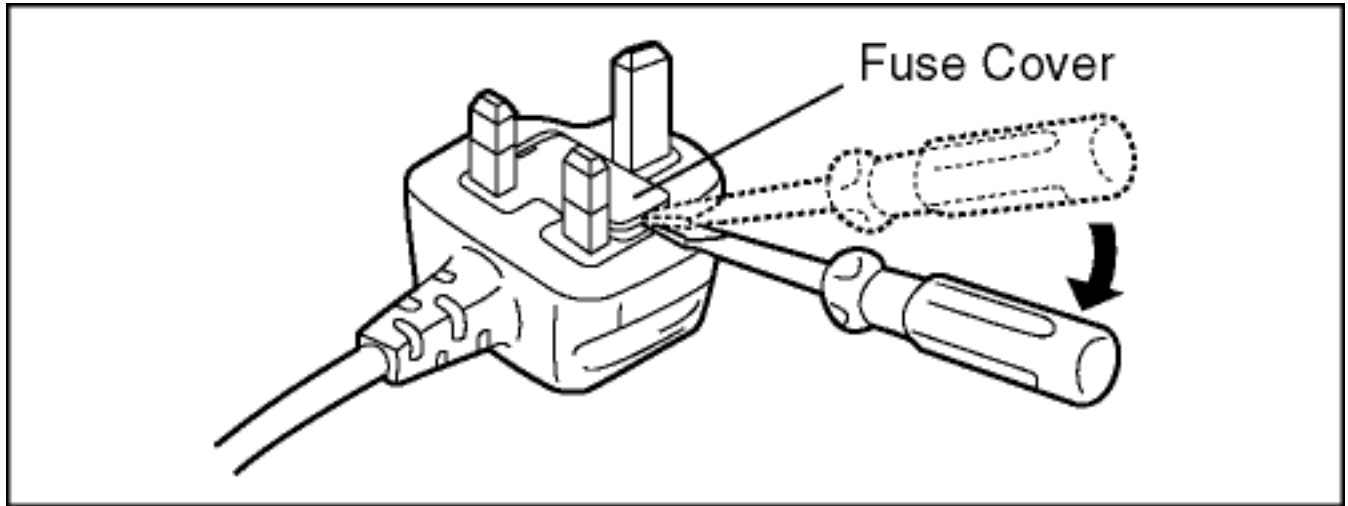


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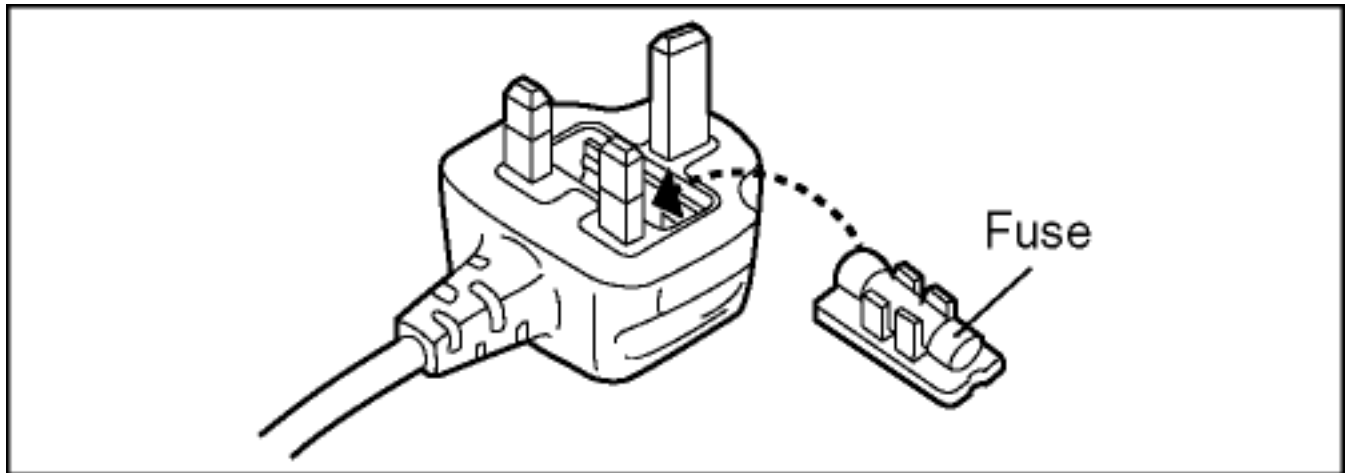
2.2.3 How to replace the Fuse

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1. Remove the Fuse Cover with a screwdriver.



2. Replace the fuse and attach the Fuse cover.



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3 SERVICE CAUTION

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[3.1 HOW TO DISCHARGE THE CAPACITOR ON JACK SD C.B.A.](#)

[3.2 EEPROM DATA FOR SPARE PARTS OF THE MAIN C.B.A.](#)

[3.3 SERVICE EXTENSION CABLES](#)

[3.4 LOCATION FOR SPARE CONNECTORS OF THE MAIN C.B.A.& SUB C.B.A.](#)

[3.4.1 MAIN C.B.A.](#)

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3.1 HOW TO DISCHARGE THE CAPACITOR ON JACK SD C.B.A.

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CAUTION

Be sure to discharge the capacitor on Jack SD C.B.A. before disassembling.

CAUTION

Be careful of the high voltage circuit on Jack SD C.B.A. when servicing.

Method:

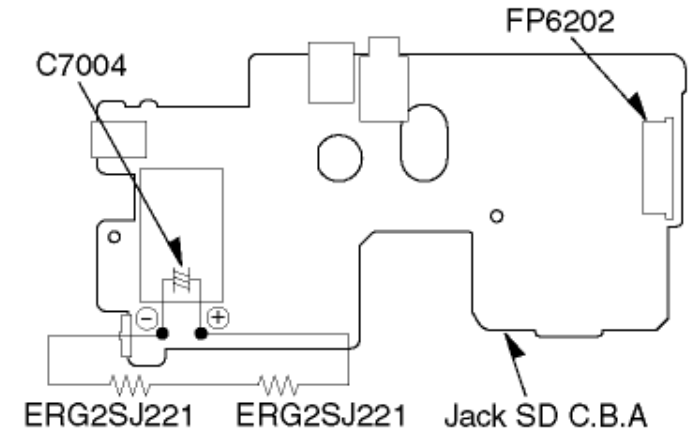
1. Prepare the 2 Resistors (ERG2SJ221:220 ohm/2w) for discharge.

Note:

Above 2 Resistors may be substituted with equivalent type.

2. Make short circuit using 2 Resistors between C7004(+) and C7004(-) for 3 seconds as follows.

3. After discharging, confirm that the capacitor voltage is sufficiently lowered using a voltmeter



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3.2 EEPROM DATA FOR SPARE PARTS OF THE MAIN C.B.A.

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When the Main C.B.A. is replaced, the fixed and average data must be changed by Tatsujin kit according to the Movie Camera's suffix.

Then, confirm and/or adjust the VTR and Camera section one by one.

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3.3 SERVICE EXTENSION CABLES

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This models is required the following extension cables for all connections.

Note 1:

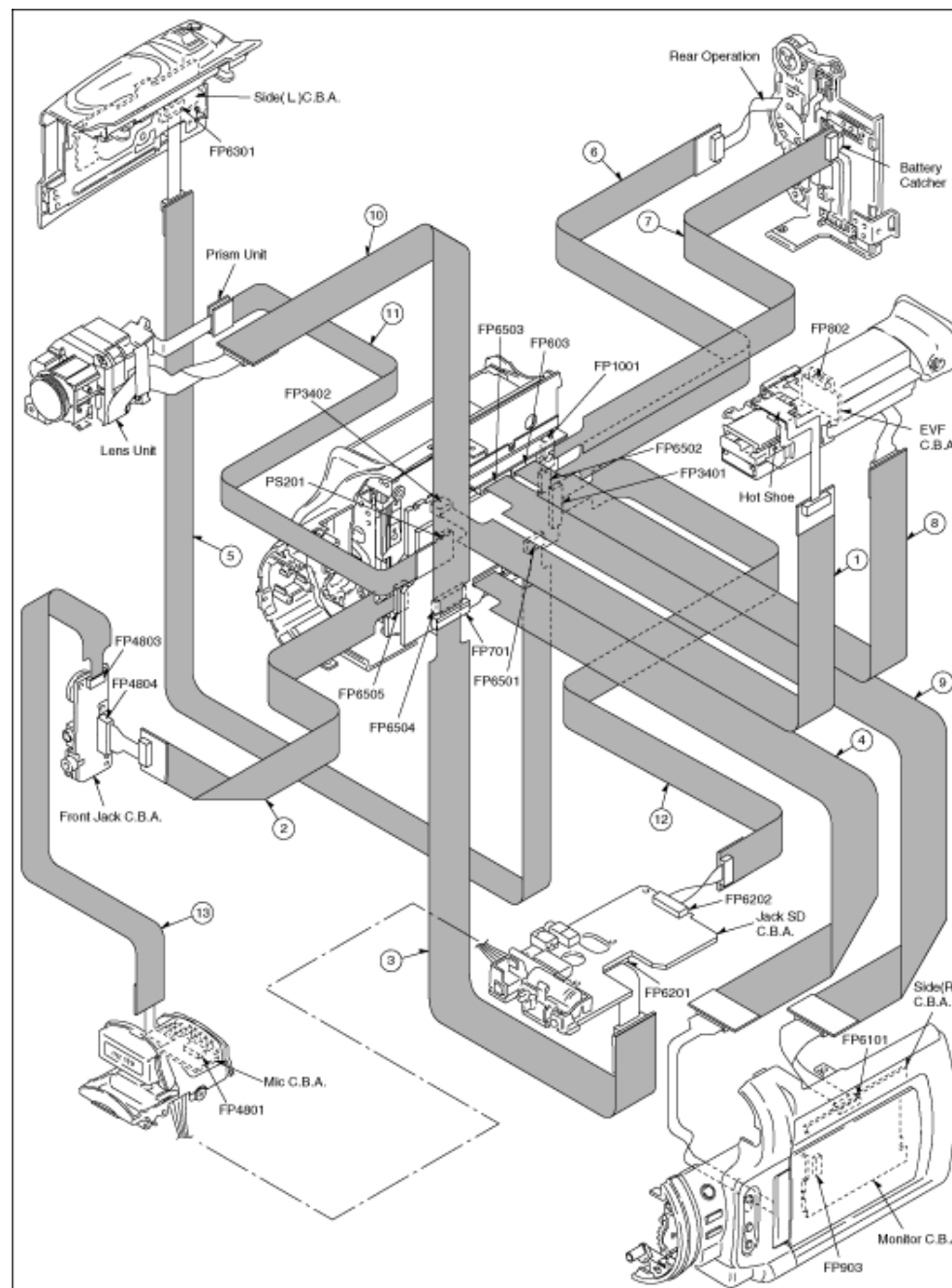
Use the following extension cables when checking or adjusting individual circuit boards except module Parts.

(Main C.B.A. and Sub C.B.A.)

Ref.	Part No.	Pin	Part Name	Connection	Q'ty	Remarks
(1)	VFK1441	8	Flat Cable	FP3402 (Main) - Hot Shoe	1	as NV-DS77
(2)	VFK1491	27	Flat Cable	FP6505 (Main) - FP4804 (Front Jack)	1	as NV-DS99
(3)	VFK1459	39	Flat Cable	FP6504 (Main) - FP6201 (Jack SD)	1	as NV-EX1
(4)	VFK1492	26	Flat Cable	FP601 (Main) - FP903 (Monitor)	1	as NV-DS99
(5)	VFK1442	21	Flat Cable	FP6501 (Main) - FP6301 (Side L)	1	as NV-DS77
(6)	VFK1452	17	Flat Cable	FP6502 (Main) - Rear Operation	1	as NV-DS77
(7)	VFK1364	14	Flat Cable	FP1001 (Main) - Battery Catcher	1	as NV-DS5
(8)	VFK1461	20	Flat Cable	FP603 (Main) - FP802 (EVF)	1	as NV-EX1
(9)	VFK1492	26	Flat Cable	FP6503 (Main) - FP6101 (Side R)	1	as NV-DS99
(10)	VFK1575C4520	45	Flat Cable	FP701 (Sub) - Lens Unit	1	as NEW
(11)	VFK1453	40	Flat Cable	PS201 (Sub) - Prism Unit	1	as NV-DS77
(12)	VFK1461	20	Flat Cable	FP3401 (Sub) - FP6202 (Jack SD)	1	as NV-EX1
(13)	VFK1441	8	Flat Cable	FP4801 (Mic) - FP4803 (Front Jack)	1	as NV-DS77

How to use extension cables.

Fig. T1-1



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3.4 LOCATION FOR SPARE CONNECTORS OF THE MAIN C.B.A.& SUB C.B.A.

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[3.4.1 MAIN C.B.A.](#)

[3.4.2 SUB C.B.A.](#)

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3.4.1 MAIN C.B.A.

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3.4.2 SUB C.B.A.

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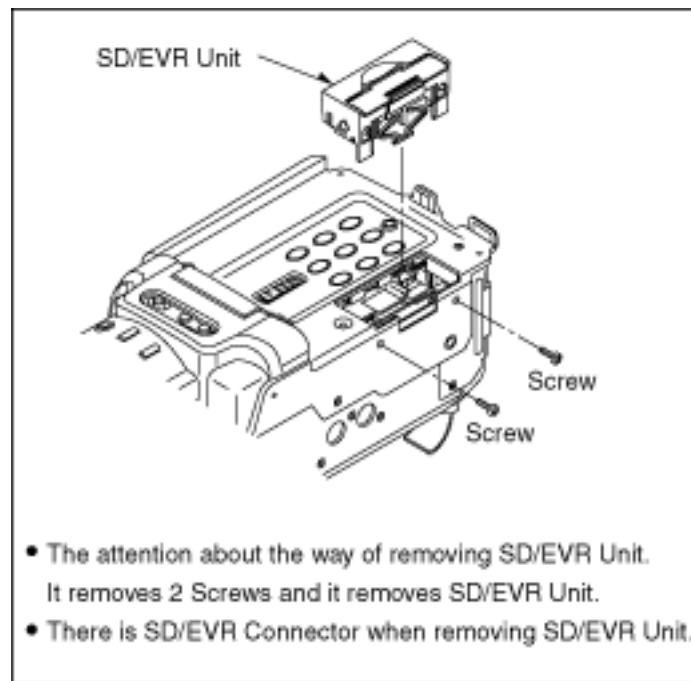
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4 PREPARATION FOR ELECTRICAL ADJUSTMENT

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1. Unlock the locking tab and remove the EVR connector as shown in [Fig. E1](#) .
2. Then connect the following cables as shown in [Fig. E2](#) .

Fig. E1



Part No.	Part Name	Q'ty	Remarks
VFK1395	232C(M3.5)I/F Cable	1	
VFK1308E	EVR Measuring Board	1	
VFK1309	EVR Connector Board	1	
VFK1317 or VFK1511	30 Pin EVR Flat Cable	2	200mm Type 300mm Type
VJA0941	DC Output Cable	1	For AC Adaptor
VFK1164TAR43	Step up Ring	1	For Collimator
VFK1714	Connection Adaptor (30pin)	2	
VFK1763	Connection Adaptor (60-30pin)	1	

Fig. E2

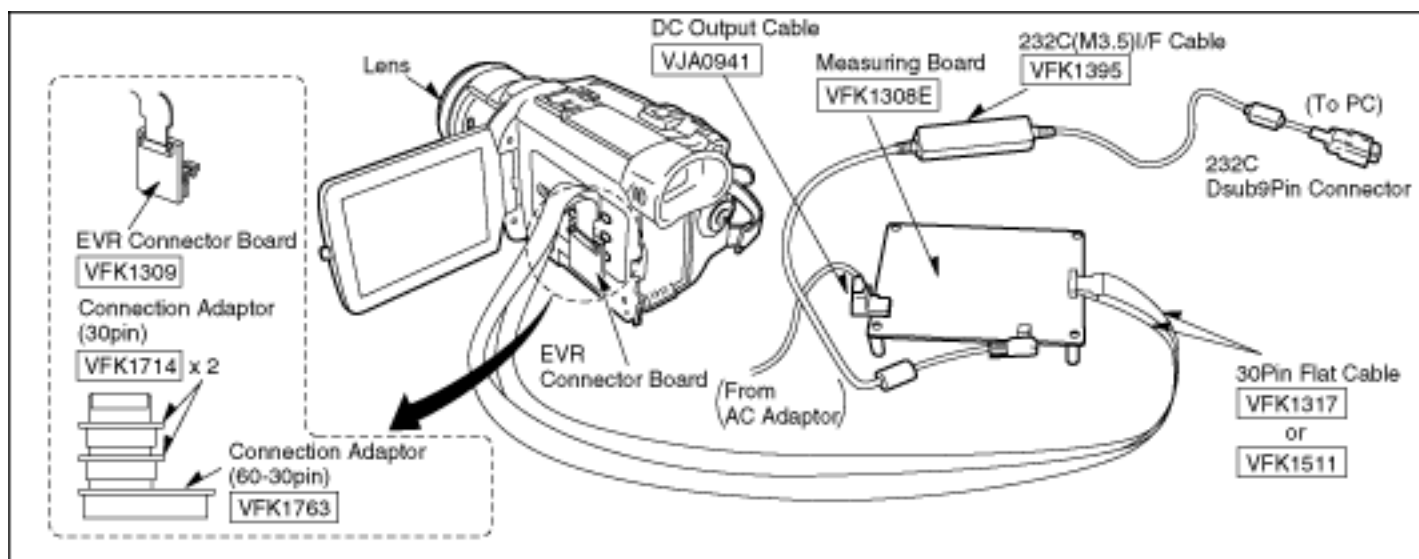
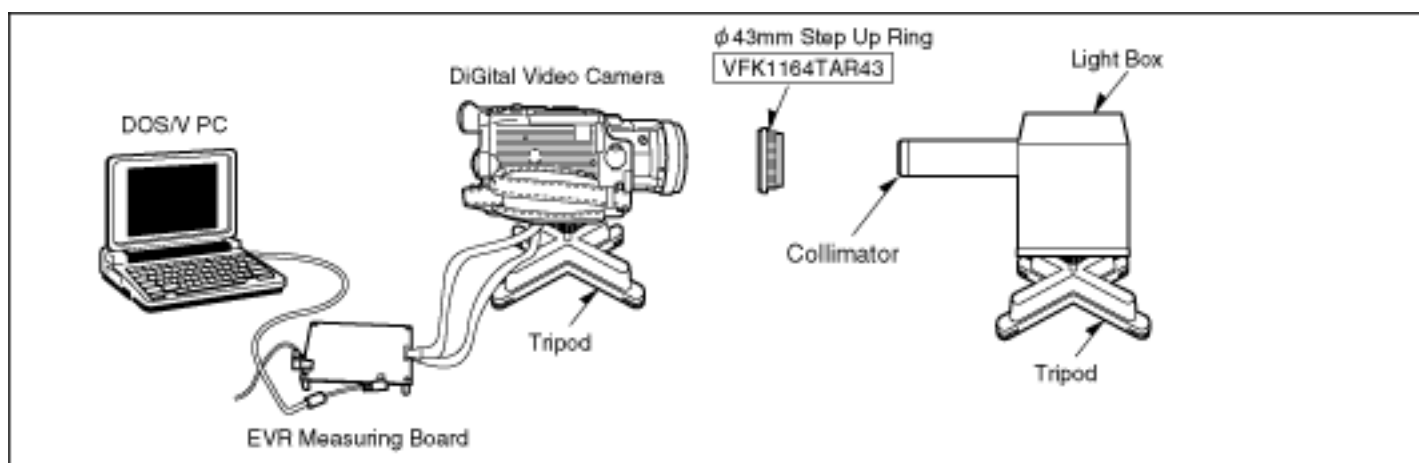


Fig. E3



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5 SERVICE MODE

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[5.1 New Error Code Display](#)

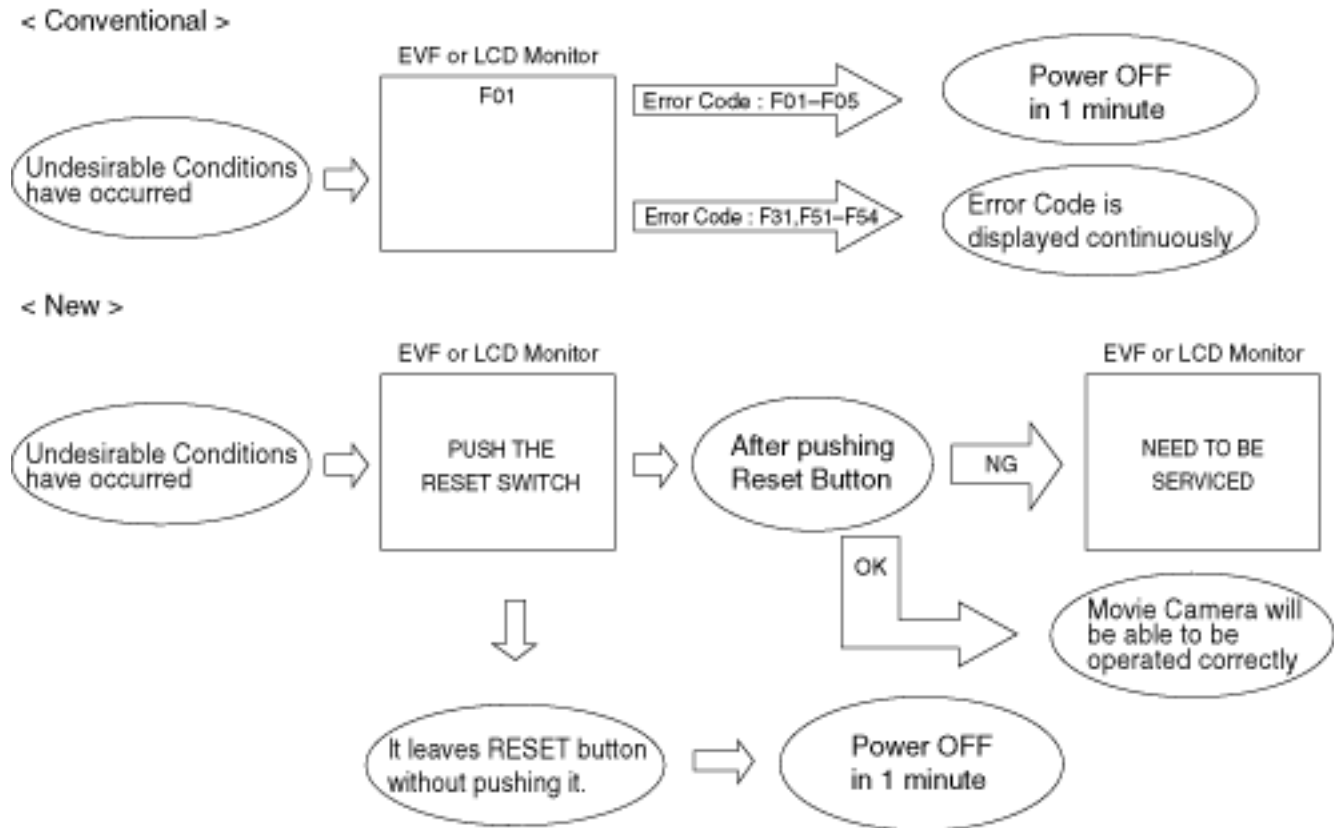
[5.2 Viewing Error Code](#)

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5.1 New Error Code Display

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Conventionally, the error code has been displayed automatically on the EVF or LCD Monitor when undesirable conditions have occurred. With the New Error Code Display, the error code has not been displayed automatically as follows except some error codes F31(Data Transmission Error), U10(Dew) and U11(Head Clogging).



Note:

1. The only some error codes F31, U10 and U11 has displayed automatically on the EVF or LCD monitor as usual.
2. The Power LED also has been flashed for 1 min. when undesirable condetions have occurred.(See below)

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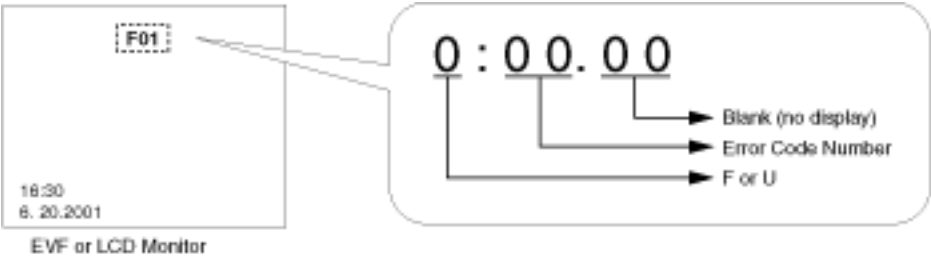
5.2 Viewing Error Code

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When displaying the Error Code on the EVF or LCD Monitor, push the FADE/STOP and REC START/PAUSE buttons simultaneously for more 3 seconds.

Note:

When the cassette tape is inserted, this operation will not be worked.



DISPLAY	CONDITION	POWER OFF TIMING / POWER LED FLASHING TIMING
F01	T-Reel Lock	After 1 minute flashing the LED
F02	S-Reel Lock	After 1 minute flashing the LED
F03	Unloading Lock	After 1 minute flashing the LED
F04	Loading Lock	After 1 minute flashing the LED
F05	Cylinder Lock	After 1 minute flashing the LED
F31	Data Transmission Error	Not turning OFF
F51	Zoom Motor Lock	Not turnig OFF Power LED is flashed at 1 Hz timing
F52	Focus Motor Lock	Not turnig OFF Power LED is flashed at 1 Hz timing
F53	OIS Lock 1	Not turnig OFF Power LED is flashed at 1 Hz timing
F54	OIS Lock 2	Not turnig OFF Power LED is flashed at 1 Hz timing
U10	Dew Detection	After 18 seconds flashing the LED Power LED is flashed at 1 Hz timing
U11	Head Clogging	Not turning OFF

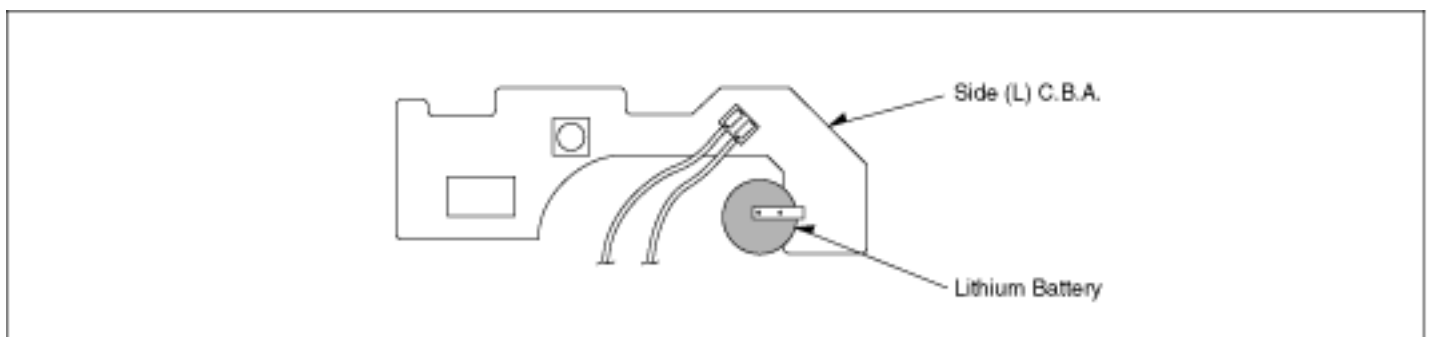
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6 HOW TO REPLACE THE LITHIUM BATTERY (PROCEDURE)

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1. Remove the Side (L) C.B.A.. (Refer to Disassembly Procedures.)
2. Unsolder the Lithium Battery “VSB0407” and then replace the new one. (See [Fig. B1](#) .)

Fig. B1



Note:

The lithium battery is a critical component. (Type No.: VSB0407 Manufactured by Panasonic.)

It must never be subjected to excessive heat or discharge.

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

Replacement batteries must be of the 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.

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the equipment manufacturer.
Discard used batteries according to manufacturer's instructions.

PRECAUTION

Le fait de remplacer incorrectement la pile peut présenter des risques d'explosion.
Remplacer la pile uniquement par une pile identique ou de type équivalent recommandée par le fabricant. Se débarrasser des piles usagées conformément aux instructions du fabricant.

VORSICHT

Bei einer falsch eingesetzten Batterie besteht Explosionsgefahr. Nur mit einer vom Hersteller empfohlenen Batterie vom gleichen Typ ersetzen.
Verbrauchte Batterien beim Fachhändler oder einer Sammelstelle für Sonderstoffe abliefern.

VARNING

Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens instruktion.

ADVARSEL!

Lithiumbatteri-Eksplodingsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandøren.

VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin.
Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

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7 OPERATING GUIDE

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8 ADJUSTMENT PROCEDURES

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[8.1 DISASSEMBLE FLOW CHART](#)

[8.2 DISASSEMBLY PROCEDURES](#)

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8.1 DISASSEMBLE FLOW CHART

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This flow chart indicates the disassembly steps the cabinet parts, C.B.A. and Mecha. Unit in order to access to be serviced. When reinstalling, perform the steps in the reverse order.

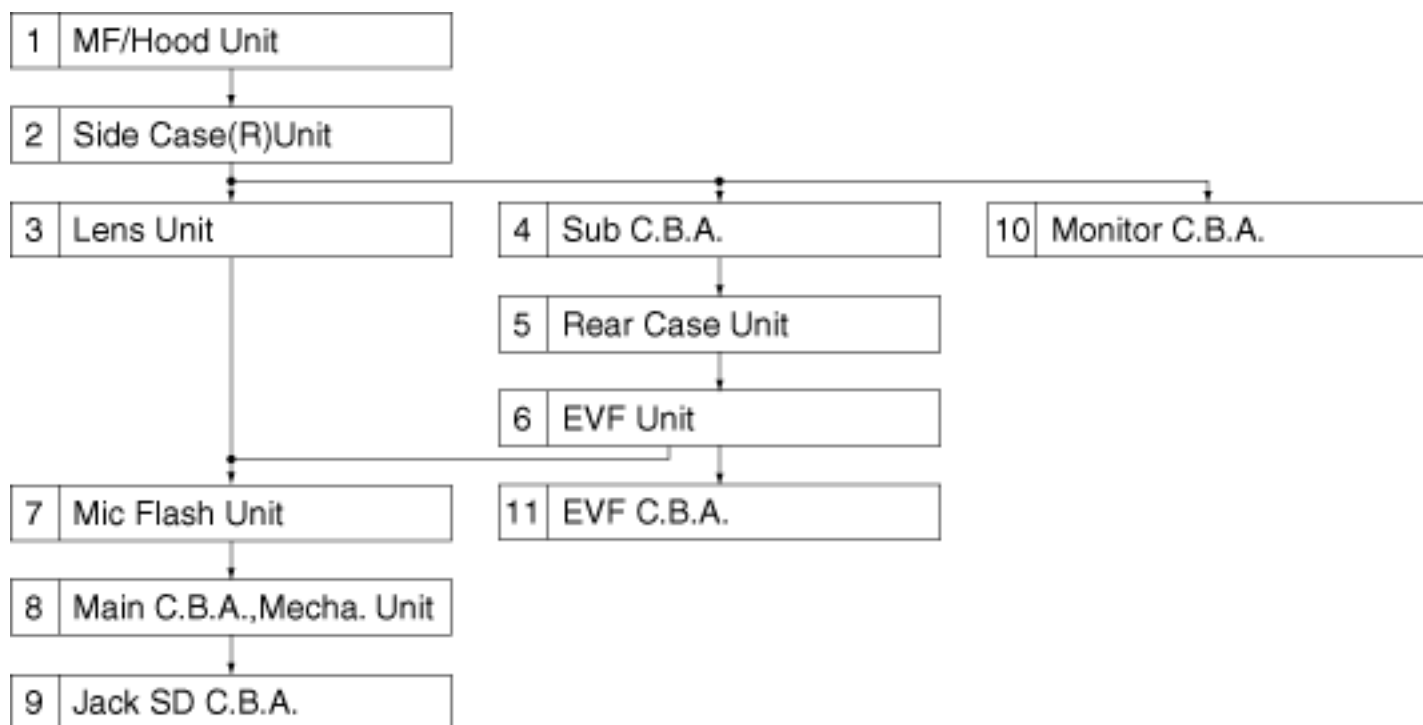
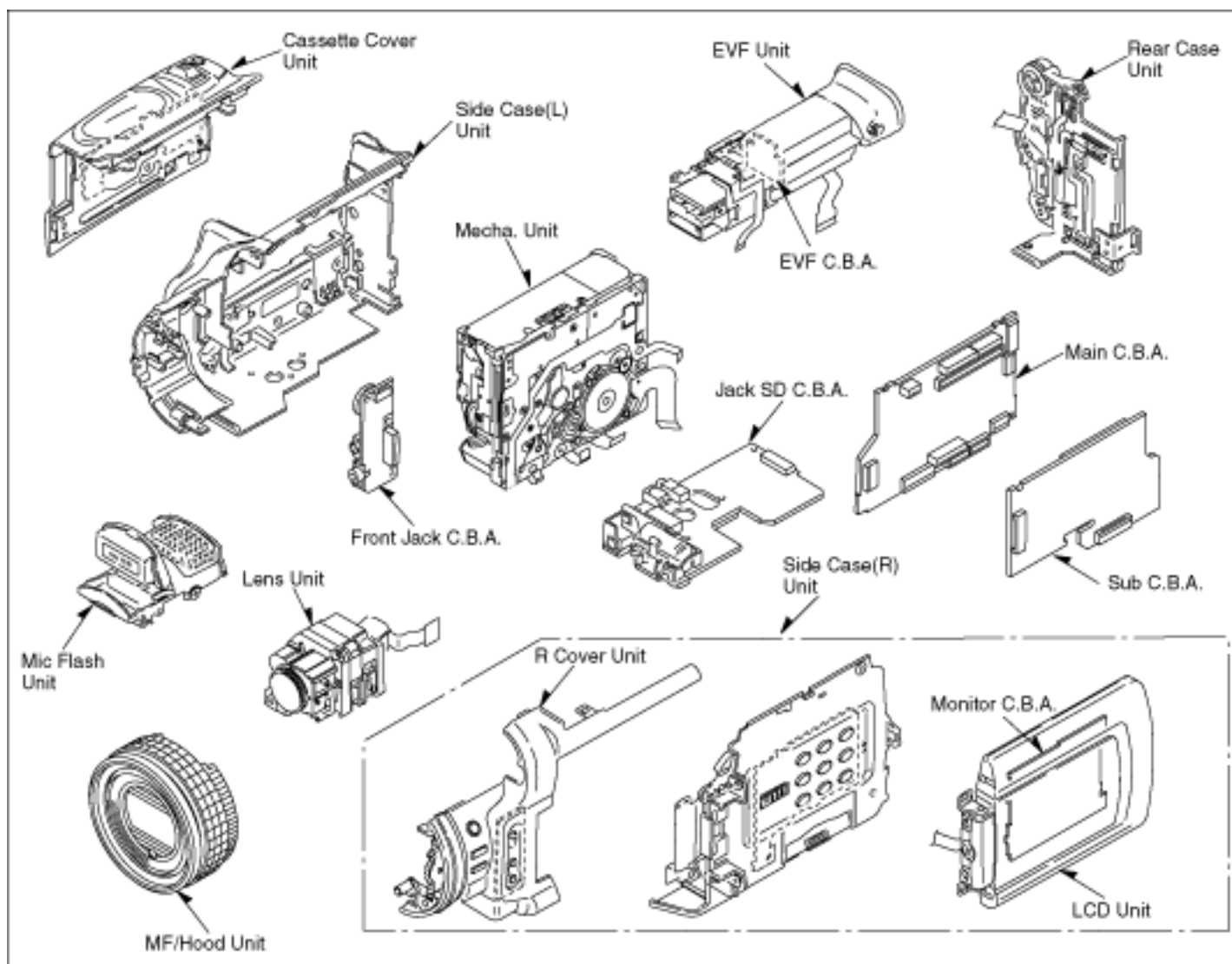


Fig. F1



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8.2 DISASSEMBLY PROCEDURES

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Flow-Chart for Disassembly Procedure

No.	Item/Part	Fig.	Removal (Screw, Connector, Flex. & Other)
1	MF/Hood Unit	Fig. D2	Flash Open 2-Screws (A)
		Fig. D3	2-Screws (B) MF/Hood Unit
2	Side Case (R) Unit	Fig. D4	2-Screws (C) SD/EVR Unit
		Fig. D5	1-Screw (D)
		Fig. D6	2-Screws (E)
		Fig. D7	1-Screw (F), 2-Screws (G) 2-Connectors FP601, FP6503 Side Case (R) Unit
3	Lens Unit	Fig. D8	2-Screws (H) 2-Connectors FP701, PS201 Lens Part
		Fig. D9	2-Screws (I), 1-Screw (J) Lens Frame, Lens Radiation Plate Lens Unit
4	Sub C.B.A.	Fig. D10	2-Connectors FP3401, PP301 Sub C.B.A.
5	Rear Case Unit	Fig. D11	2-Screws (K), 1-Screw (L)
		Fig. D12	Jack Cover Open 1-Screw (M), 1-Screw (N) 2-Connectors FP1001, FP6502 Rear Case Unit
6	EVF Unit	Fig. D13	Cassette Cover Open 1-Screw (O), 1-Screw (P)
		Fig. D14	1-Screw (Q) 2-Connectors FP603, FP3403 EVF Unit
7	Mic Flash Unit	Fig. D15	1-Screw (R) 2-Connectors FP4803, P7001 Mic Flash Unit
8	Main C.B.A., Mecha. Unit	Fig. D16	2-Screws (S), 1-Screw (T) 4-Connectors FP6501, FP6504, FP6505, FP6506 4-Tabs Main C.B.A./Mecha. Unit

		Fig. D17	1-Screw (U) 5-Connectors FP2201, FP2202, FP2203, FP2204, FP5001 2-Tabs Main C.B.A 3-Screws (V) Mecha. Frame Unit Mecha. Unit
9	Jack SD C.B.A.	Fig. D18	1-Screw (W) Jack Cover Cassette Cover Open 2-Screws (X), 1-Screw (Y) Cassette Cover Unit 1-Screw (Z) Lock Cancellation Lever Down Main Frame Open Cassette Button
		Fig. D19	5-Screws (a), 1-Screw (b) Main Frame Unit/Jack SD Unit
		Fig. D20	Discharge the Capacitor. 4-Screws (c) Jack SD C.B.A.
10	Monitor C.B.A.	Fig. D21	1-Screw (d), 4-Screws (e), 1-Screw (f) LCD Open Detect SW Camera Radiation Plate (Upper) 1-Screw (g) IR Sensor Window
		Fig. D22	2-Screws (h)
		Fig. D23	1-Screw (i) 1-Connector FP6302 1-Tab R Cover Unit 2-Screws (j) LCD Unit
		Fig. D24	1-Screw (k), 2-Screws (l) 7-Tabs LCD Case(Upper) 1-Screw (m) Shield Barrier 1-Connector FP903 LCD Hinge Unit Flex. protect Sheet 1-Screw (n) 1-ConnectorFP901 2-Solder Portion Monitor C.B.A.
11	EVF C.B.A.	Fig. D25	1-Tab EVF View Adj. Unit
		Fig. D26	2-Tabs Slide Cover
		Fig. D27	2-Screws (o) 2-Tabs EVF Case (Upper) 1-Connector FP802

		Fig. D28	2-Tabs 1-Connector FP803 EVF C.B.A.
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Fig. D1

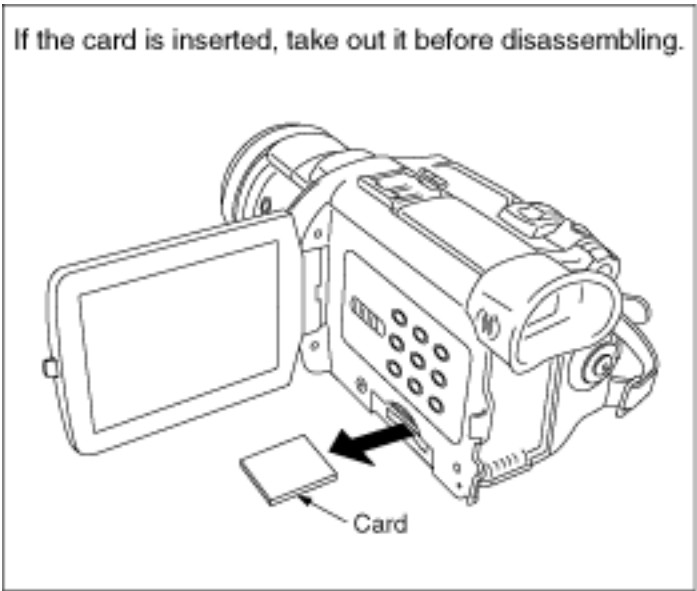


Fig. D2

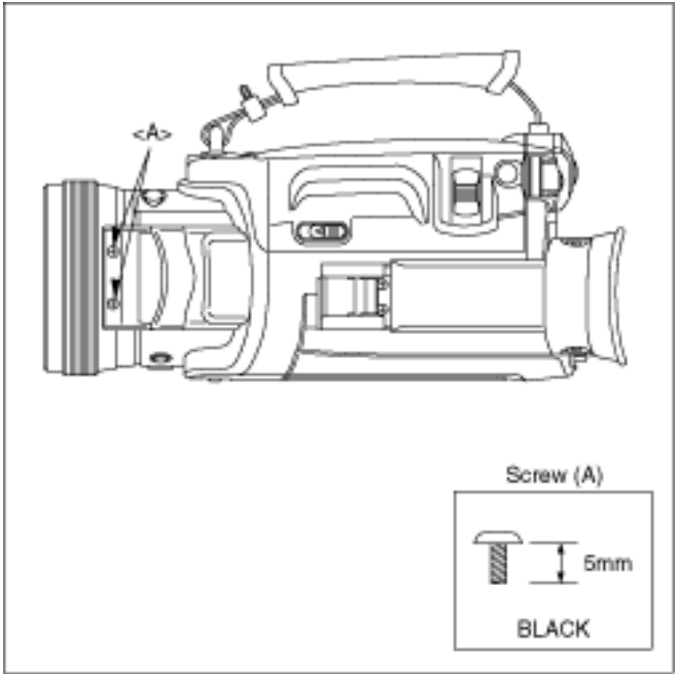


Fig. D3

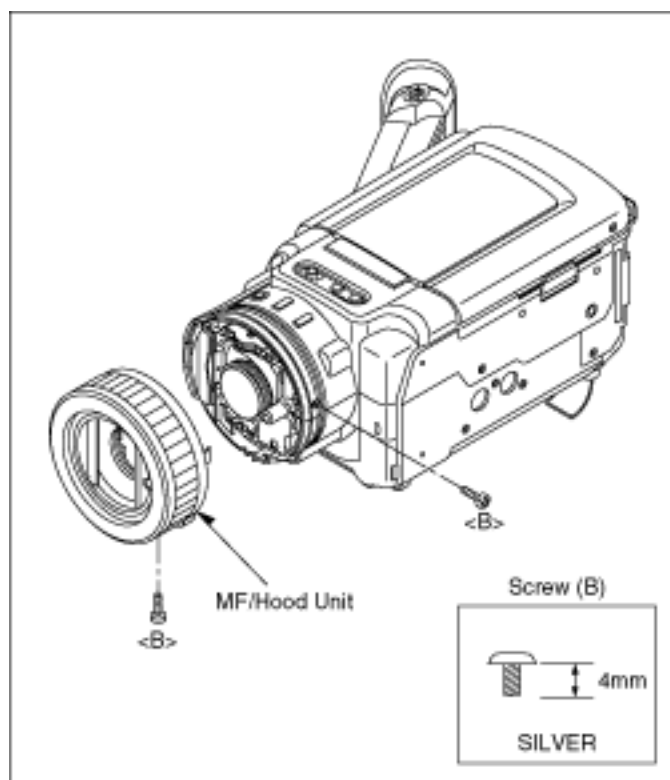


Fig. D4

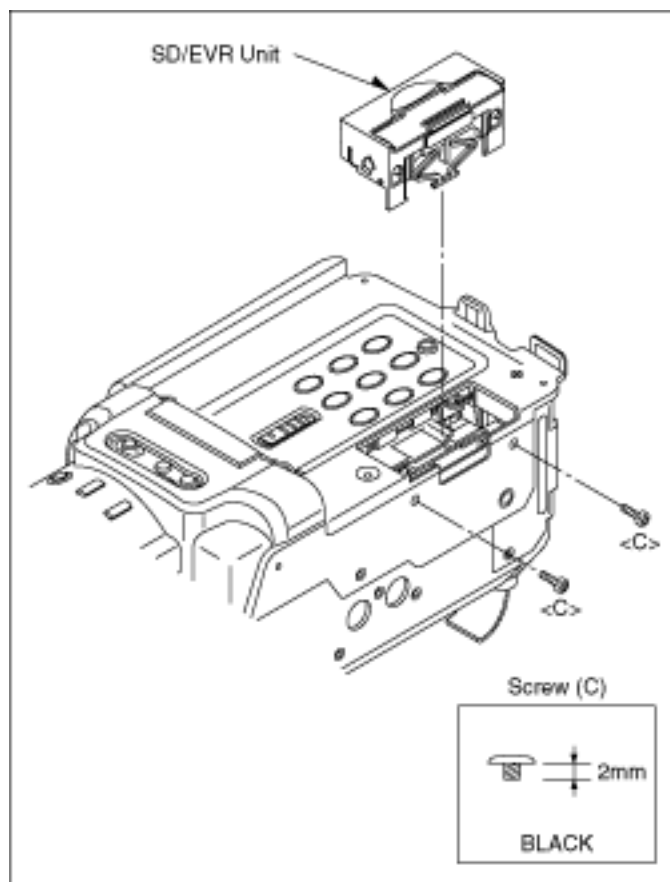


Fig. D5

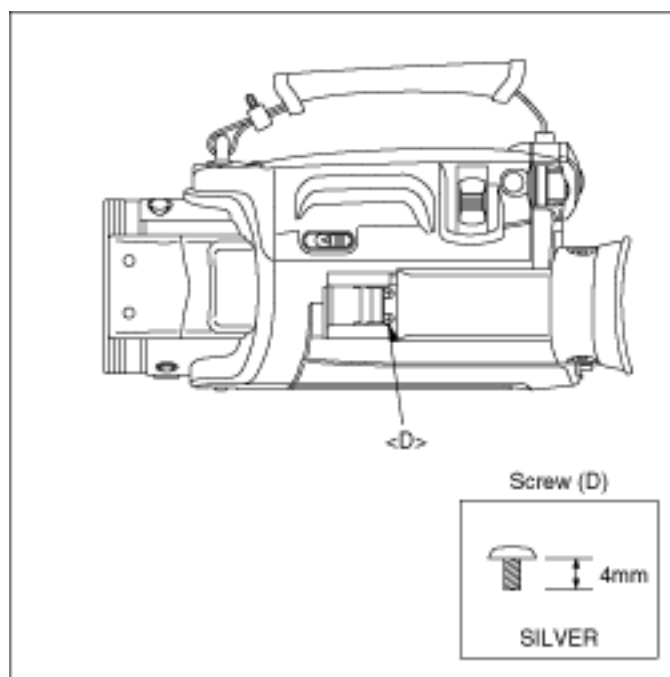


Fig. D6

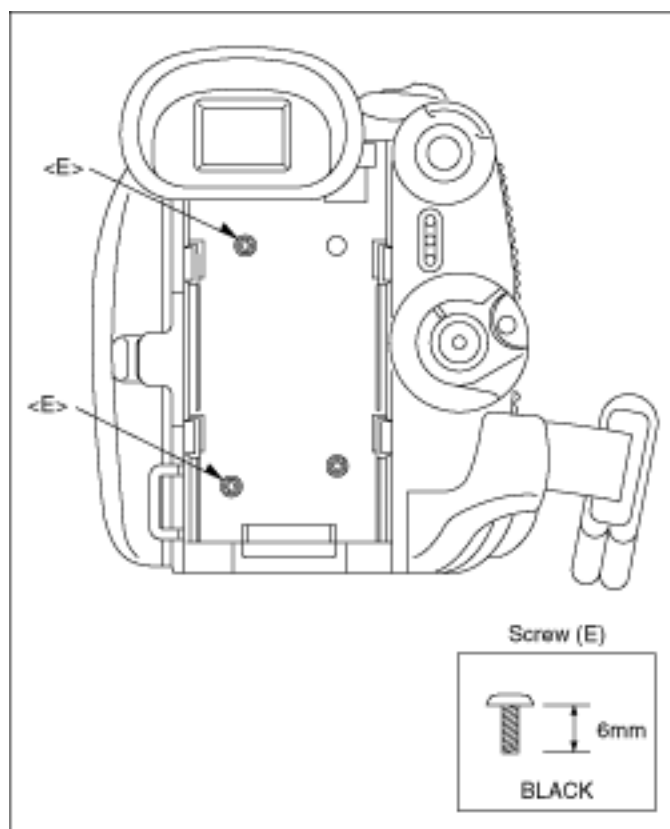


Fig. D7

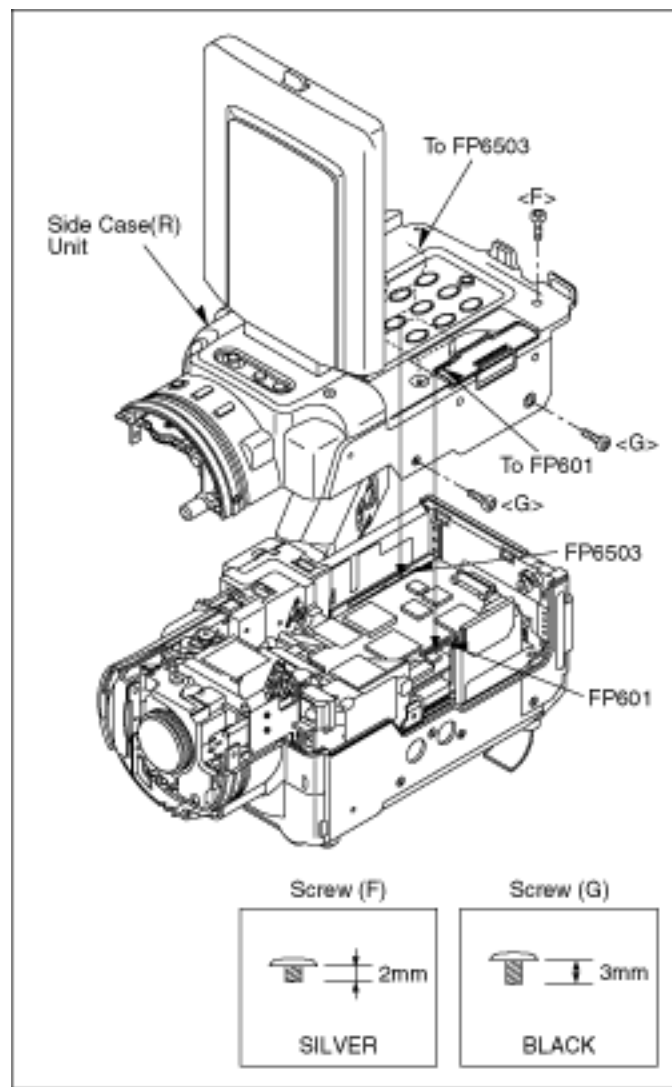


Fig. D8

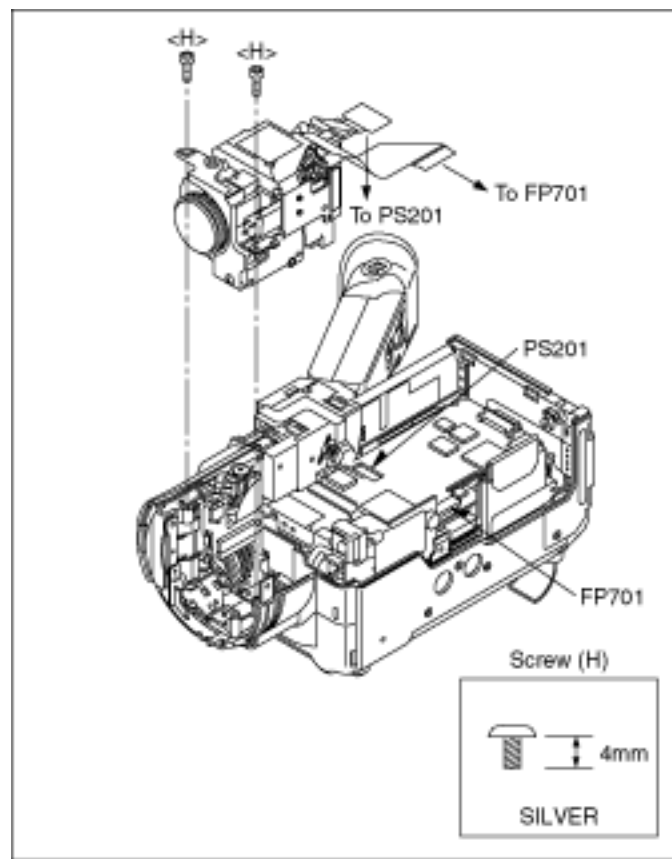


Fig. D9

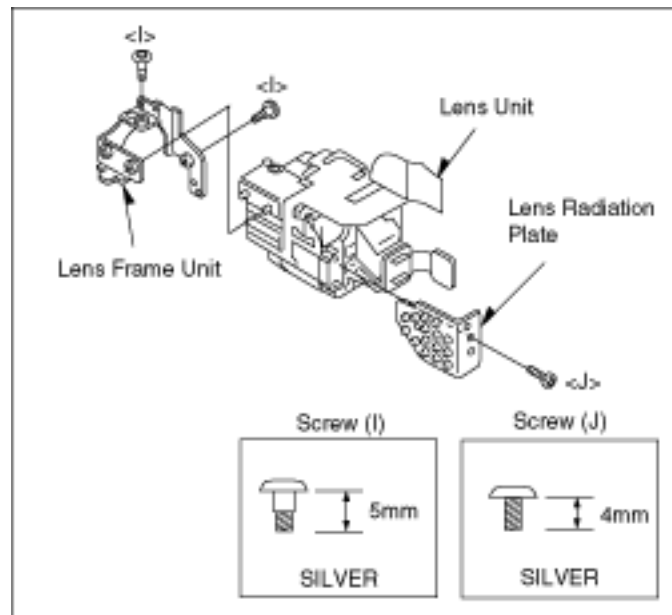


Fig. D10

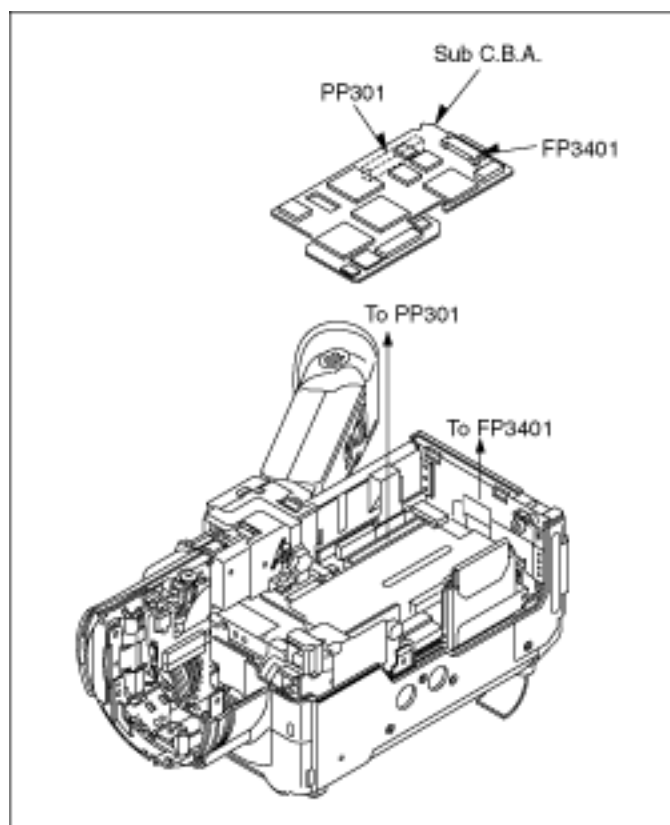


Fig. D11

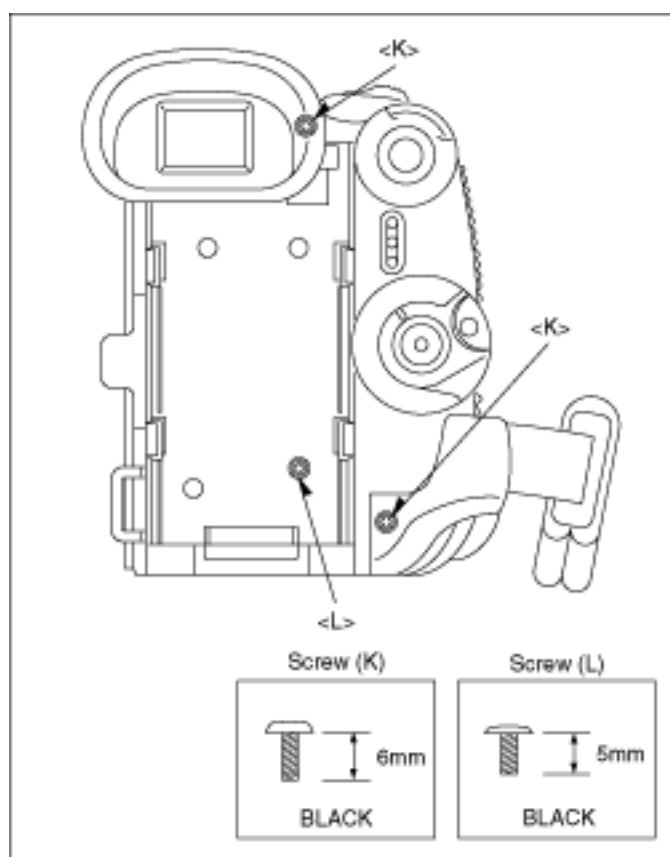


Fig. D12

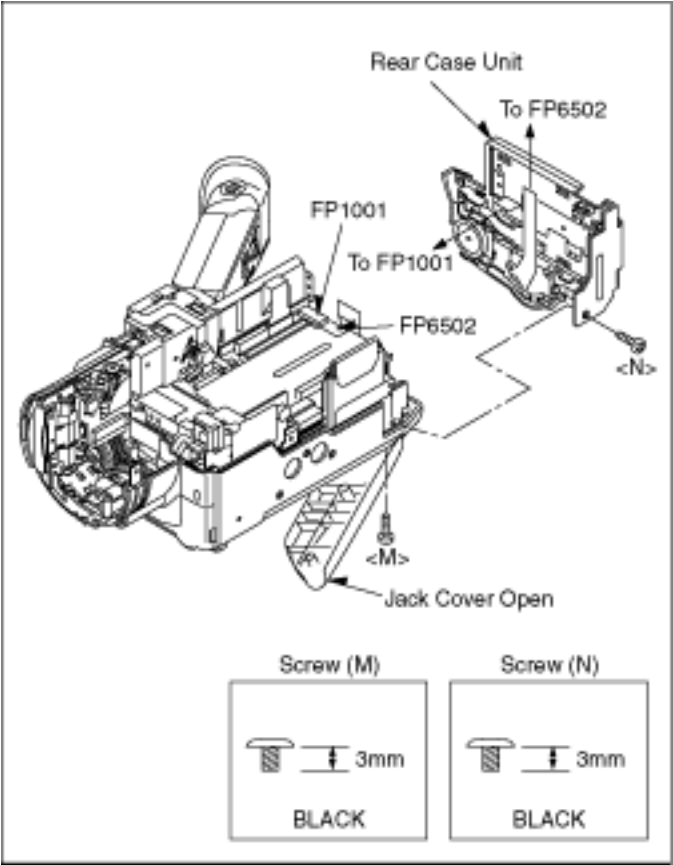


Fig. D13

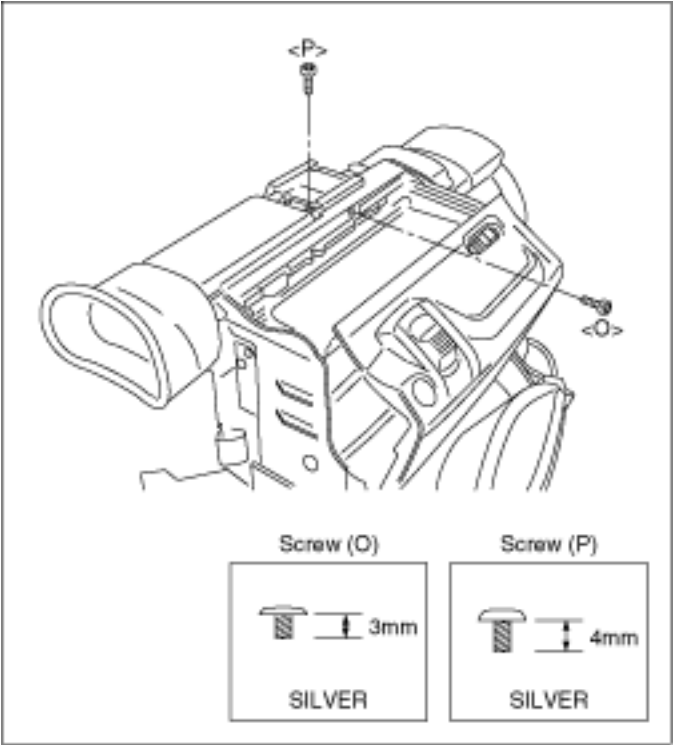


Fig. D14

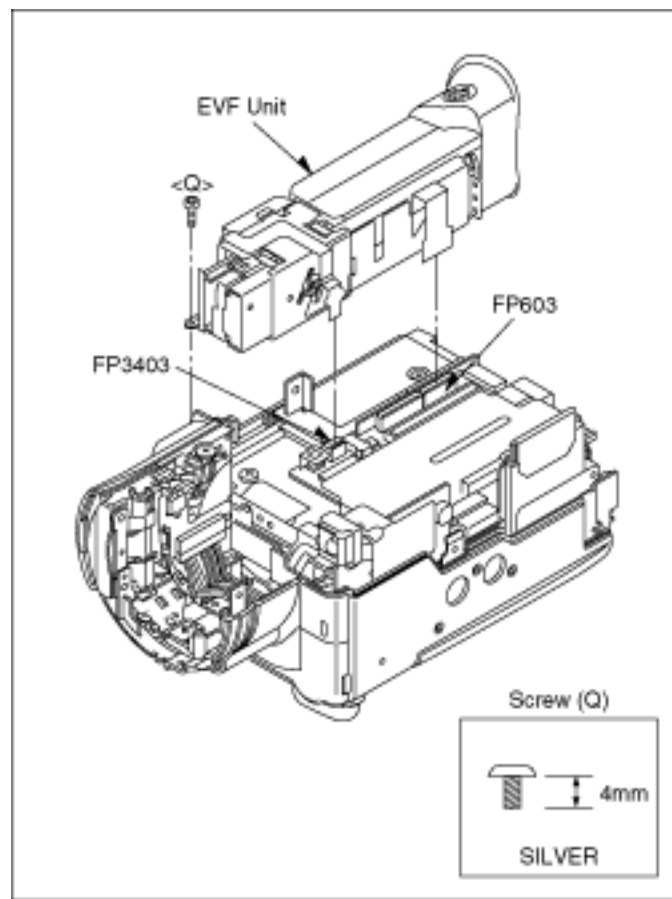


Fig. D15

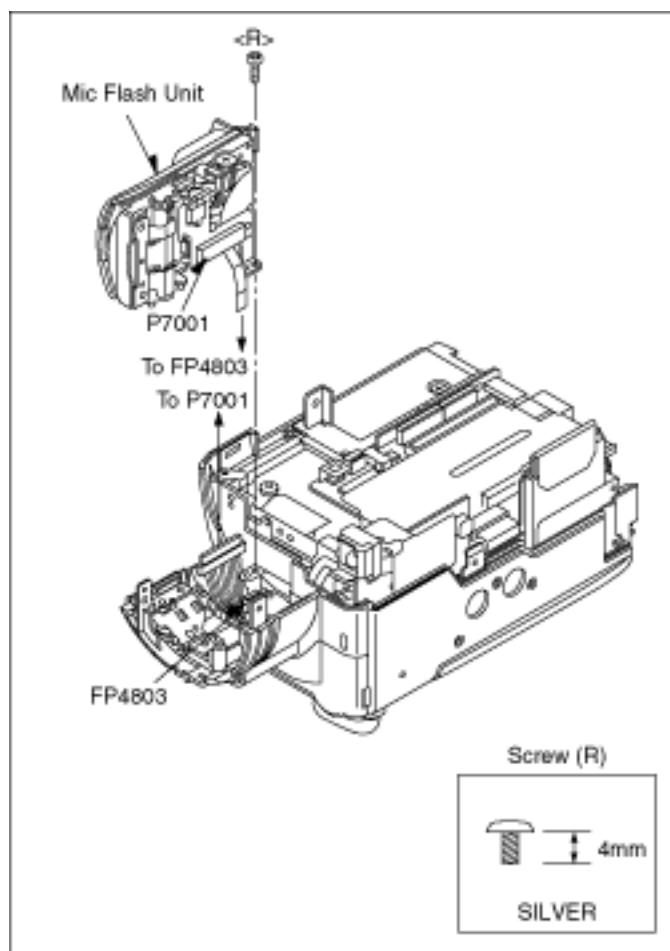


Fig. D16

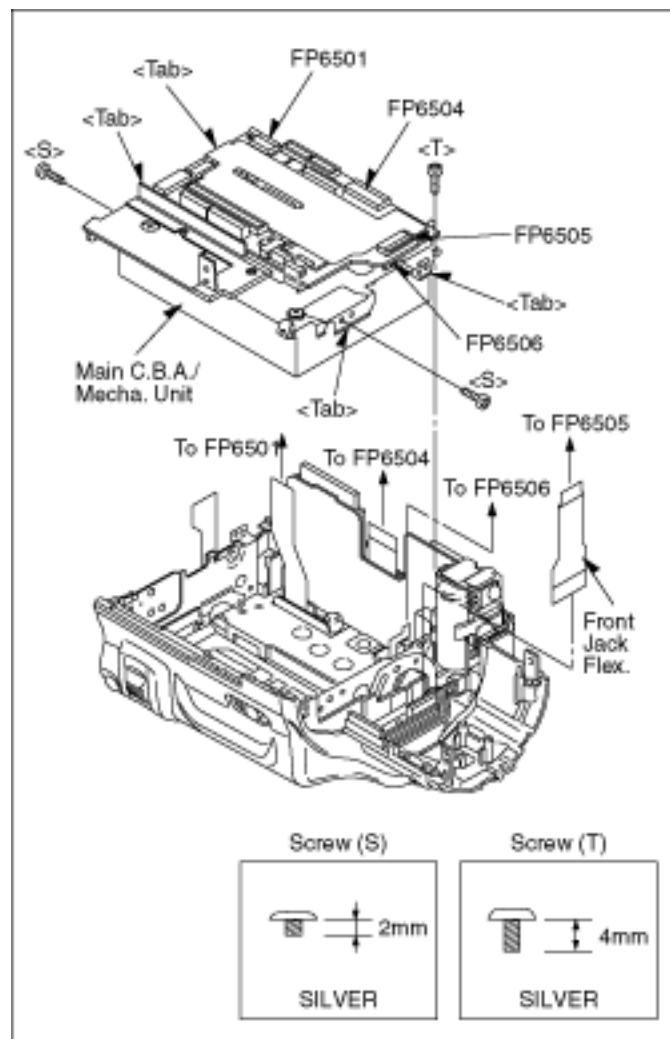


Fig. D17

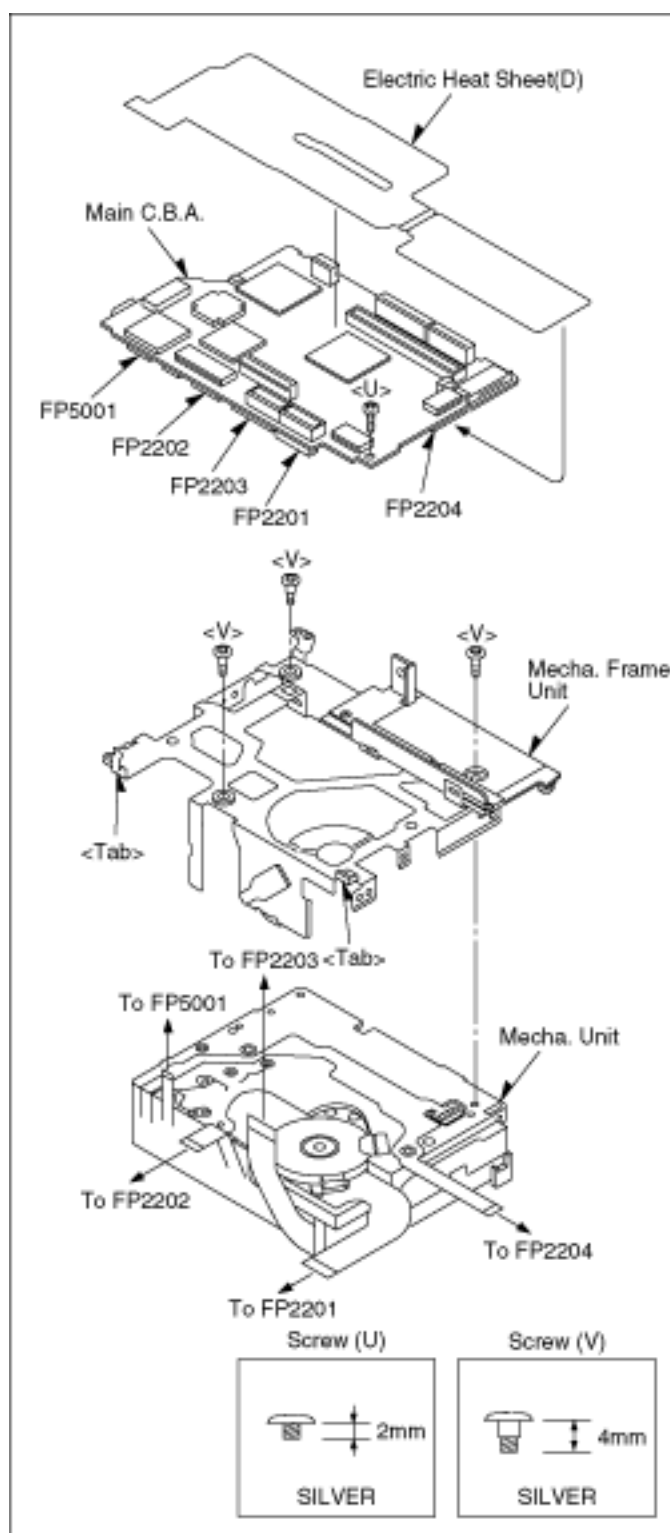


Fig. D18

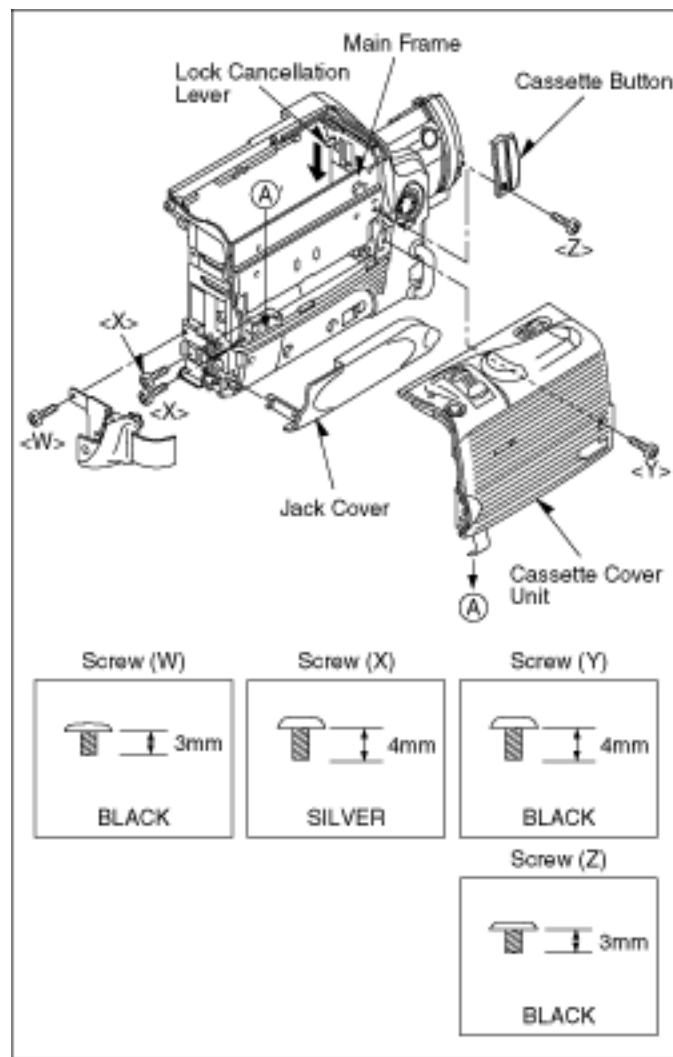


Fig. D19

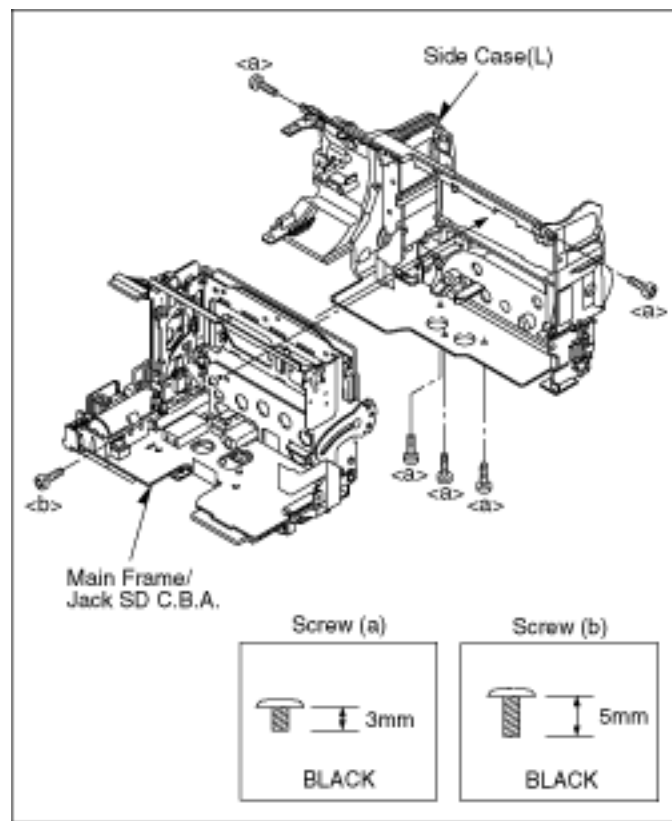


Fig. D20

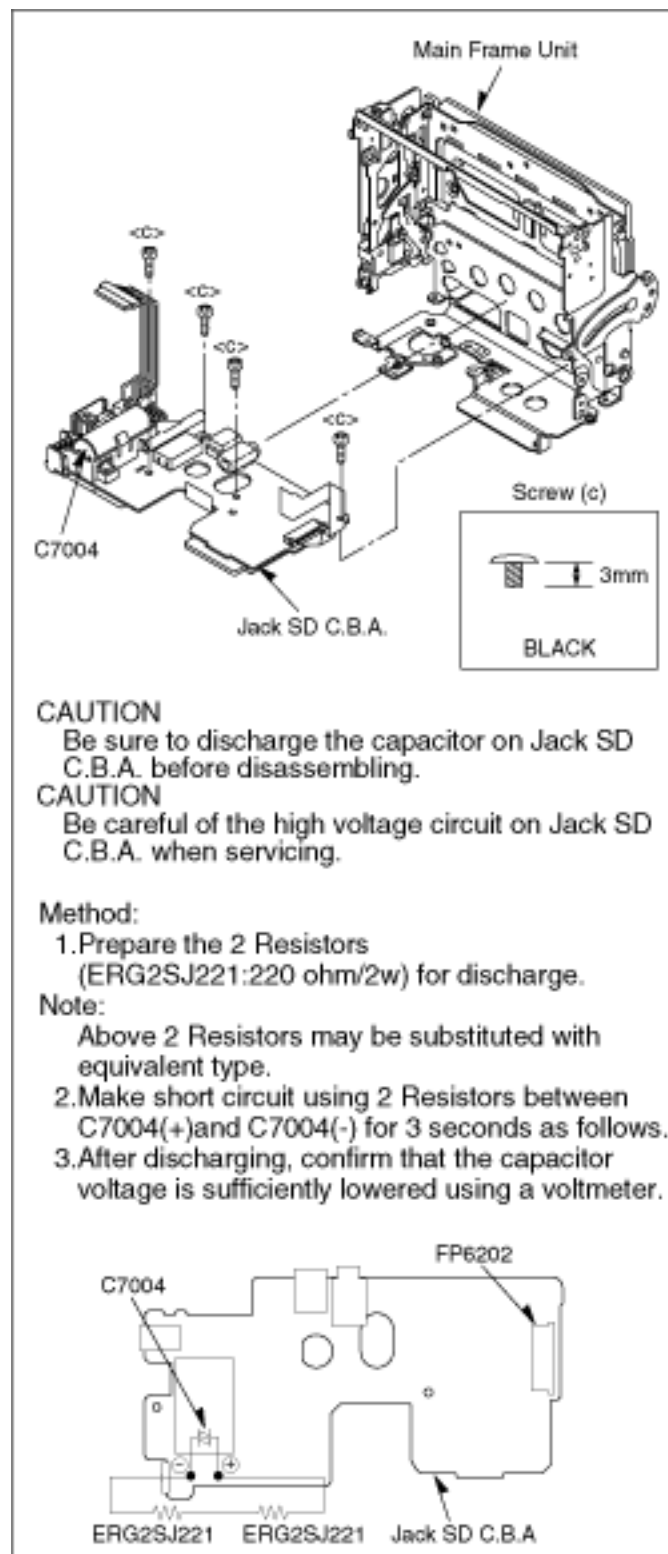


Fig. D21

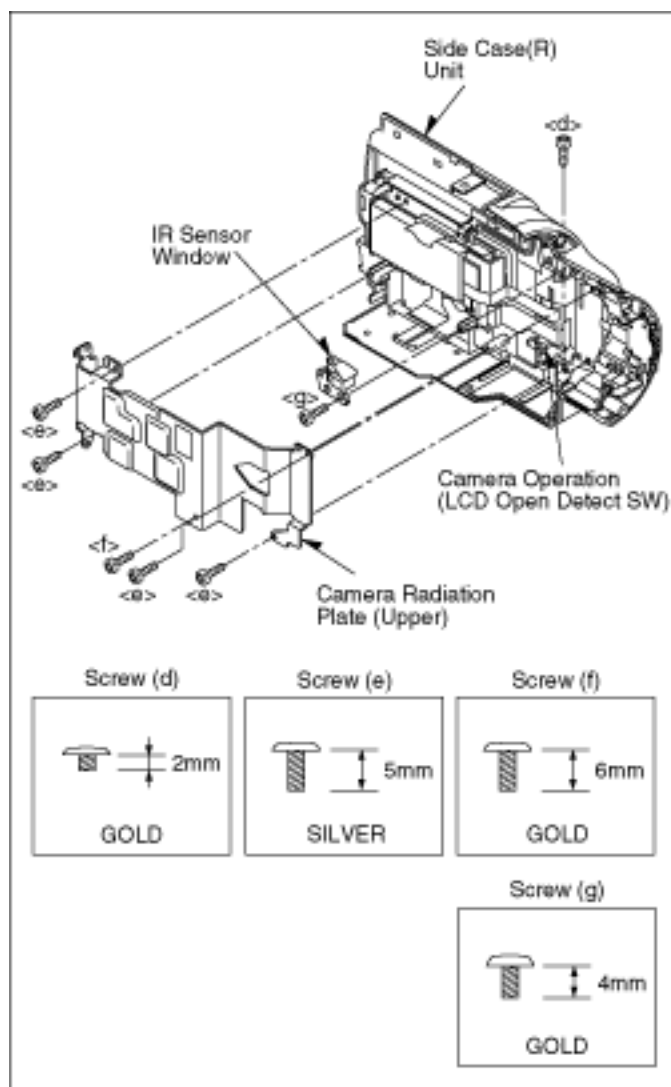


Fig. D22

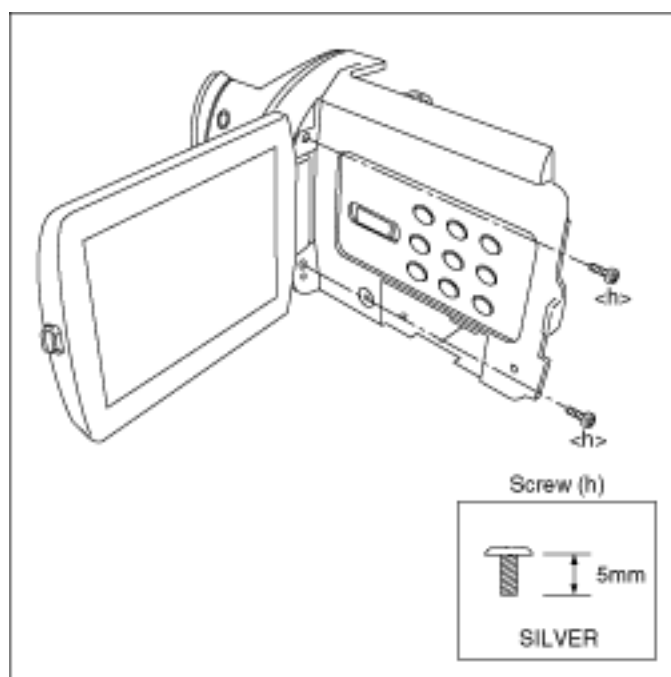


Fig. D23

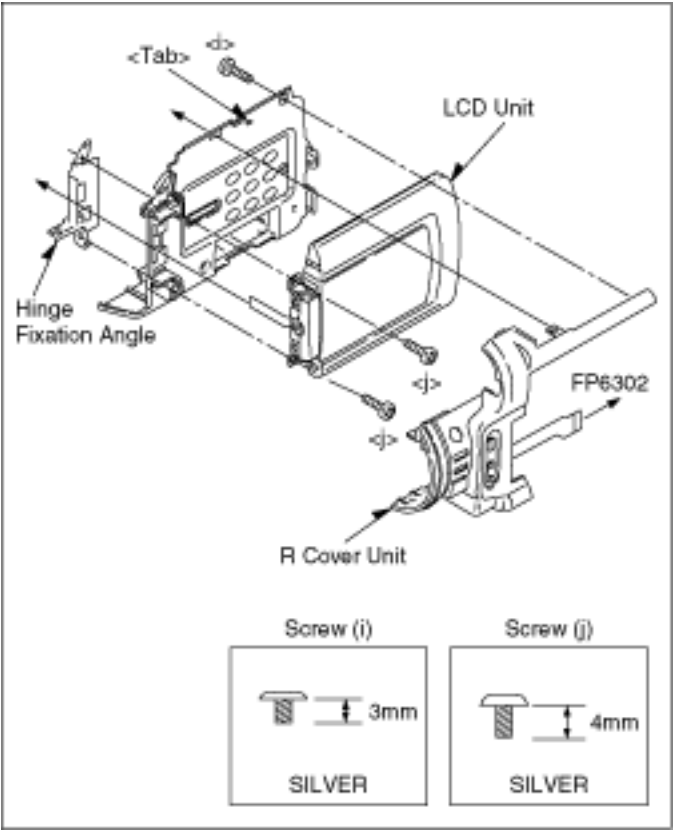


Fig. D24

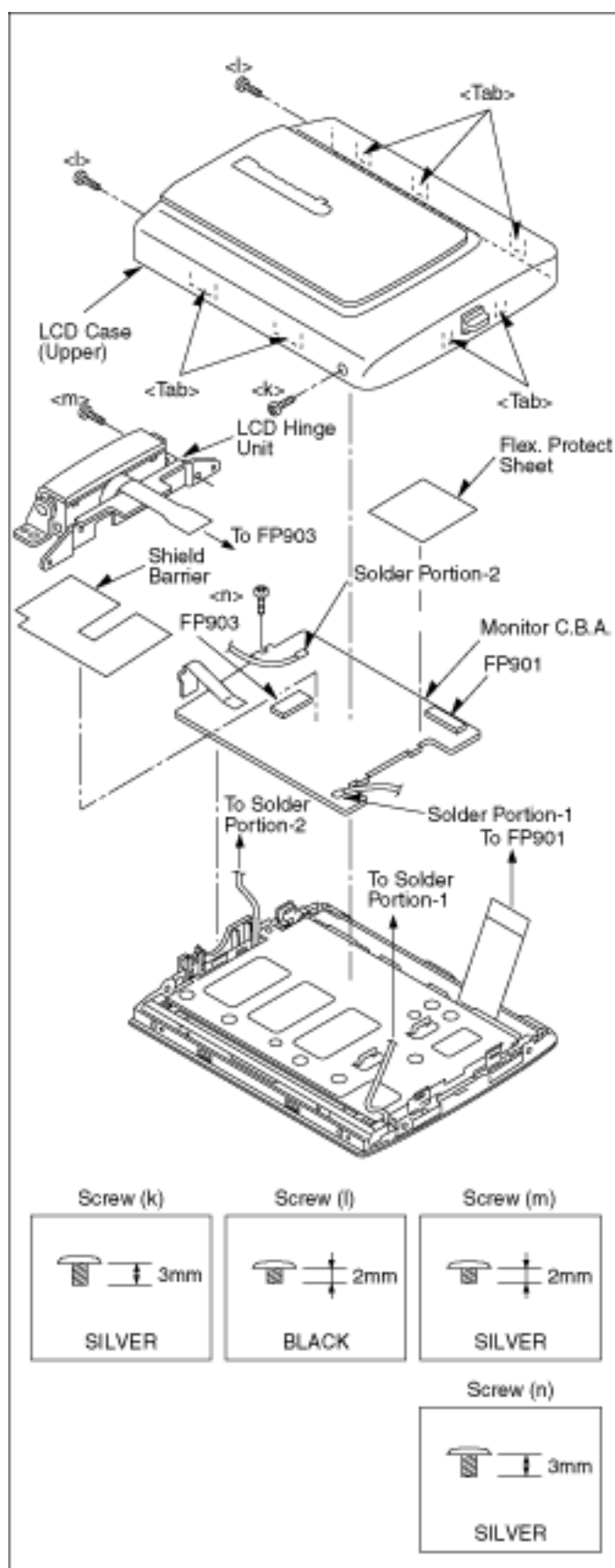


Fig. D25

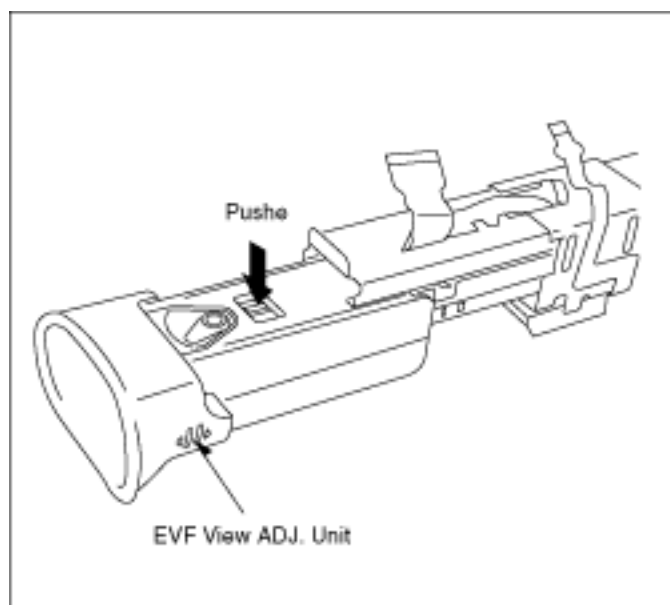


Fig. D26

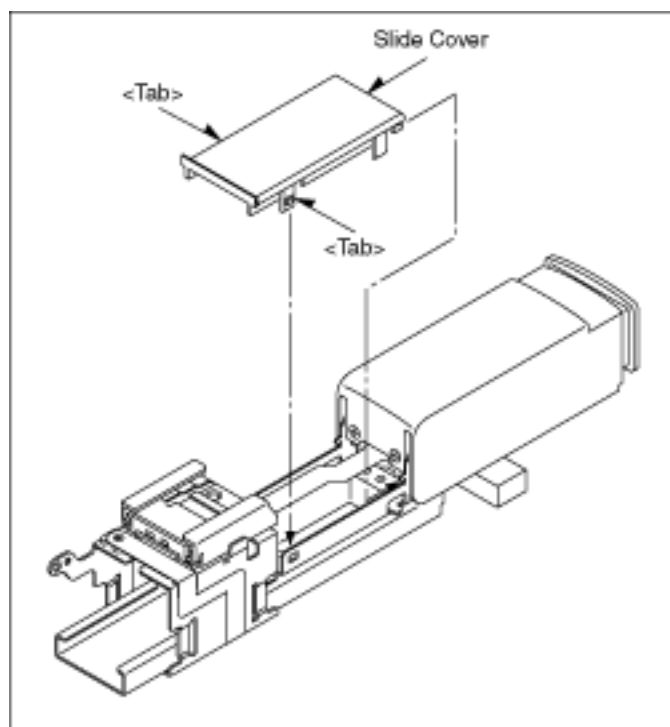


Fig. D27

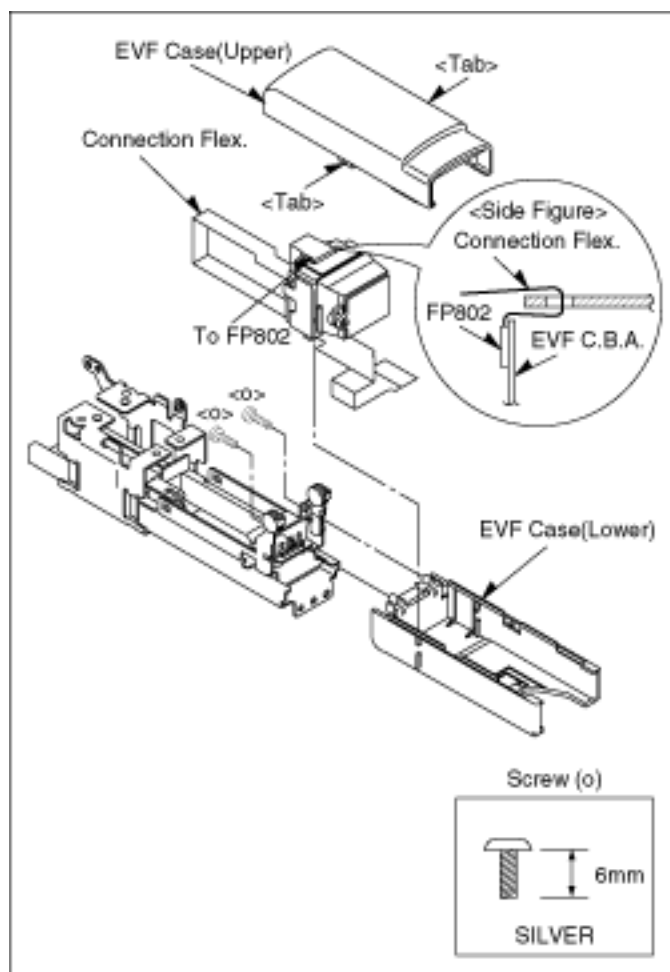
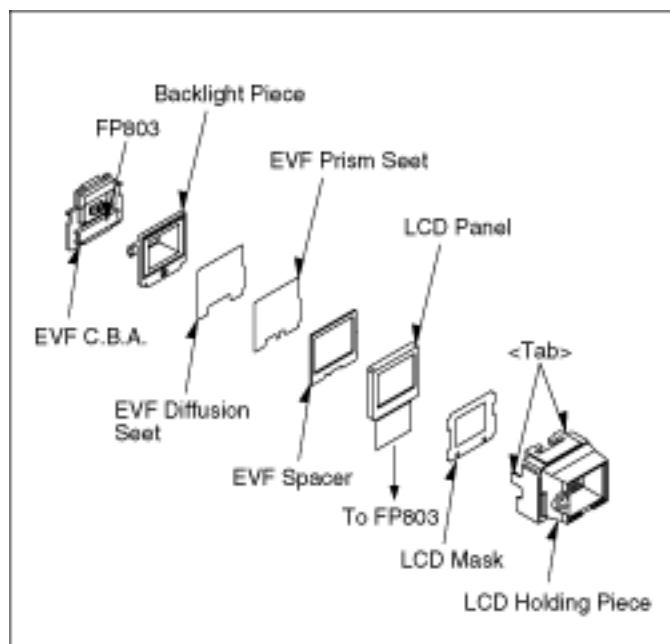


Fig. D28



8.3 DISASSEMBLY PROCEDURES OF CAMERA LENS UNIT

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The following flowchart describes order or steps for removing the Camera lens unit and certain printed circuit boards in order to make access to the item needing service.

To reassemble the unit follow the steps in reverse order.

Fig. L1

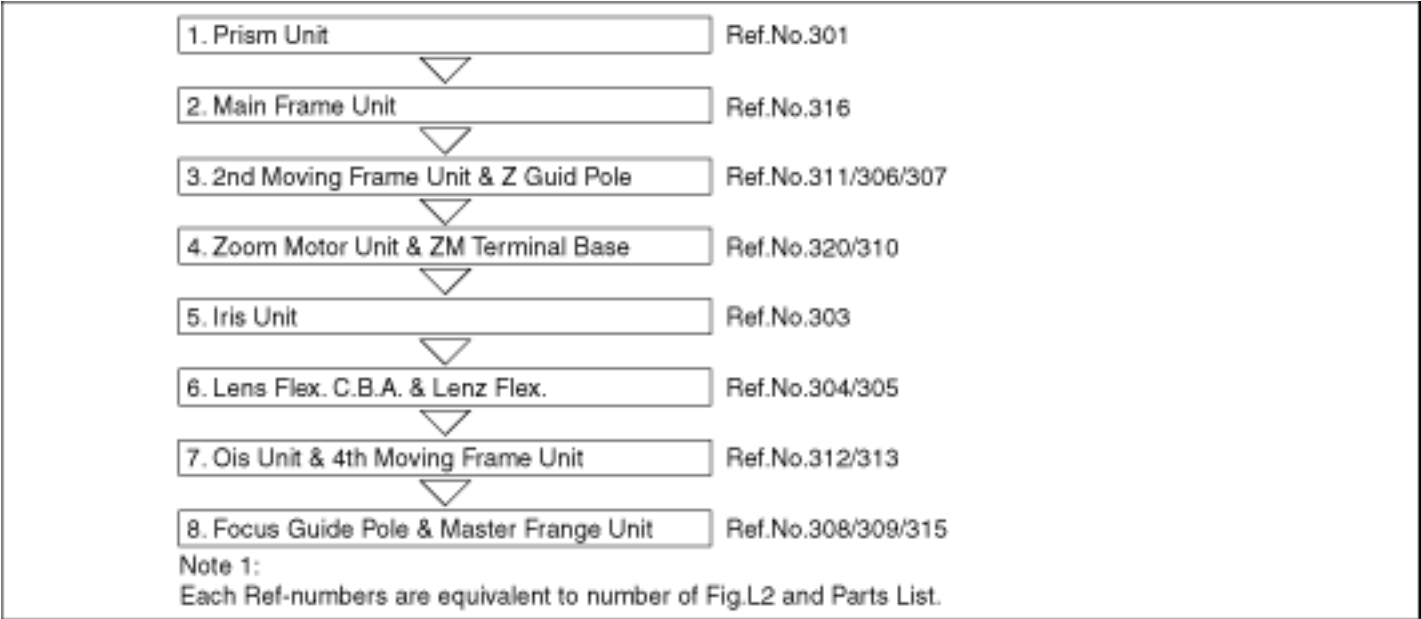
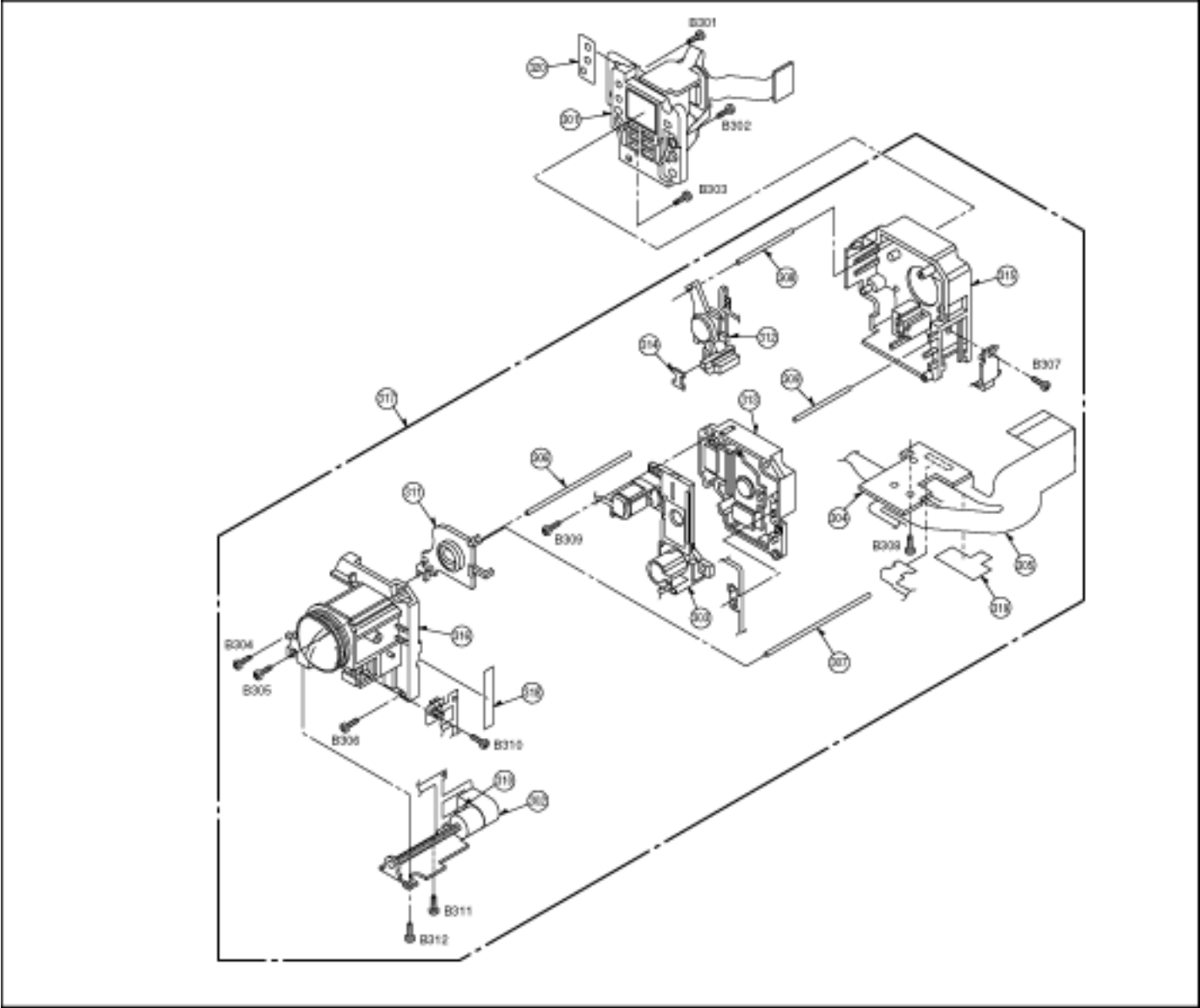


Fig. L2



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[11.5 REAR OPERATION UNIT SCHEMATIC DIAGRAM](#)

[11.6 MAIN FRAME UNIT \(CASSETTE DOWN FLEX. CARD\) SCHEMATIC DIAGRAM](#)

[11.7 FLASH FLEX. UNIT SCHEMATIC DIAGRAM](#)

[11.8 EVF SCHEAMTIC DIAGRAM](#)

[11.9 CAMERA OPERATION FLEX.& MF VR UNIT CHEMATIC DIAGRAM](#)

[11.10 SIDE \(R\)& IR SENSOR SCHEMATIC DIAGRAM](#)

[11.11 PRISM UNIT SCHEMATIC DIAGRAM](#)

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[11.14 JACK SD SCHEMATIC DIAGRAM](#)

[11.15 MONITOR& HALL SENSOR FLEX. SCHEMATIC DIAGRAM](#)

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11.1 OVERALL SCHEMATIC DIAGRAM

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11.2 INTERCONNECTION SCHEMATIC DIAGRAM

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11.3 SIDE (L) SCHEMATIC DIAGRAM

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11.4 CASSETTE COVER UNIT SCHEMATIC DIAGRAM

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11.5 REAR OPERATION UNIT SCHEMATIC DIAGRAM

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11.6 MAIN FRAME UNIT (CASSETTE DOWN FLEX. CARD) SCHEMATIC DIAGRAM

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11.7 FLASH FLEX. UNIT SCHEMATIC DIAGRAM

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11.8 EVF SCHEAMTIC DIAGRAM

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11.9 CAMERA OPERATION FLEX.& MF VR UNIT CHEMATIC DIAGRAM

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11.10 SIDE (R)& IR SENSOR SCHEMATIC DIAGRAM

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11.11 PRISM UNIT SCHEMATIC DIAGRAM

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11.12 MIC SCHEMATIC DIAGRAM

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11.13 FRONT JACK& SUB REC SCHEMATIC DIAGRAM

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11.14 JACK SD SCHEMATIC DIAGRAM

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11.15 MONITOR& HALL SENSOR FLEX. SCHEMATIC DIAGRAM

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12 CIRCUIT BOARD ASSEMBLIES

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[12.6 MIC C.B.A.](#)

[12.7 SUB REC C.B.A.](#)

[12.8 FRONT JACK C.B.A.](#)

[12.9 JACK SD C.B.A.](#)

[12.10 MONITOR C.B.A.](#)

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12.1 SIDE (L) C.B.A.

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12.2 EVF C.B.A.

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12.3 CAMERA OPERATION FLEX. C.B.A.

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12.4 PRISM UNIT C.B.A.

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12.5 SIDE (R) C.B.A.

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12.6 MIC C.B.A.

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12.7 SUB REC C.B.A.

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12.8 FRONT JACK C.B.A.

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12.9 JACK SD C.B.A.

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12.10 MONITOR C.B.A.

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13.2 FRAME& CASING SECTION (2)

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13.3 LCD SECTION

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13.4 CAMERA LENS SECTION

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13.5 PACKING PARTS& ACCESSORIES SECTION

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[14.3 LCD SECTION PARTS LIST](#)

[14.4 CAMERA LENS SECTION PARTS LIST](#)

[14.5 PACKING PARTS& ACCESSORIES SECTION PARTS LIST](#)

[14.6 ELECTRICAL REPLACEMENT PARTS LIST](#)

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14.1 FRAME& CASING SECTION (1)

PARTS LIST

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Note: 1. *Be sure to make your orders of replacement parts according to this list.
 2. IMPORTANT SAFETY NOTICE
 Components identified with the mark Δ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Remarks
1	VYK0J41	SD/EVR U.	
2	VYK0M18	(R) COVER (1) U.	
4	N9ZZ00000161	MF VR U.	
5	VGU9156	MODE SELECT BUTTON	
6	VDB1676	HARD BALL	
7	VMB3654	COIL SPRING	
8	VGU9158	CAMERA OPERATION BUTTON (REAR)	
9	VGK2798	OIS DECORATION	
10	VGU9157	CAMERA OPERATION BUTTON (FRONT)	
11	VMP7271	CAMERA OP. BUTTON ANGLE	
12	VYK0M20	(R) BASE (1) U.	
13	VGL0849	POWER PANEL LIGHT	
14	VSC5381	HINGE EARTH PLATE	
15	VGU9264	CAMERA OPERATION BUTTON	
16	VGU9121	MODE SELECT KNOB	
17	VSC5382	CAMERA RADIATION PLATE	
20	VMP7286	IR SENSOR ANGLE	
21	VMP7272	HINGE FIXATION ANGLE	
22	VWJ1574	(R) OPERATION FLEX.	
23	VSC5392	CAMERA RADIATION PLATE (UPPER)	
24	VGQ6841	HEAT TRANSMISSION SHEET (B)	
25	VKW3066	IR SENSOR WINDOW	
26	VGQ2184	FLEX. FIXATION TAPE	

<u>27</u>	VKM6011	EVF CASE (UPPER)	
<u>28</u>	VKM5954	EVF CASE (LOWER)	
<u>29</u>	VGQ6790	LCD HOLDING PIECE	
<u>30</u>	VGQ6791	LCD MASK	
<u>31</u>	VGQ6753	PROTECT PANEL	
<u>32</u>	VGQ6854	PROTECT PANEL SHEET	
<u>33</u>	L5BDDXH00007	LCD PANEL	
<u>35</u>	VWJ1567	CONNECTION FLEX.	
<u>36</u>	VGQ6862	EVF SPACER	
<u>37</u>	VGQ6793	BACKLIGHT PIECE	
<u>38</u>	VGL1007	EVF POLARIZATION PLATE	
<u>39</u>	VGL0999	EVF DIFFUSION SHEET	
<u>40</u>	VGL1000	EVF PRISM SHEET (A)	
<u>41</u>	VXA7454	EVF SLIDE U.	
<u>42</u>	K1FB108H0011	SHOE TERMINAL SOCKET	
<u>43</u>	VYK0J39	EVF VIEW ADJ. U.	
<u>44</u>	VMG1451	EYE CAP	
<u>45</u>	VDL1220	EVF LENS	
<u>46</u>	VGQ6794	EVF LENS HOLDER	
<u>47</u>	VKF3611	SLIDE COVER	
<u>48</u>	VWJ1573	HOT SHOE FLEX.	
<u>49</u>	VGQ6846	PROTECT PIECE	
<u>50</u>	VMZ3284	SLIDE BARRIER	
<u>51</u>	VXP2198	MF U.	
<u>52</u>	VYQ2480	LENS HOOD U.	
<u>53</u>	VKM5946	FLASH CASE (UPPER)	
<u>54</u>	VKM5947	FLASH CASE (LOWER)	
<u>55</u>	VXA7453	FLASH BASE FRAME U.	
<u>56</u>	VKM5972	FLASH BASE COVER	
<u>58</u>	VGQ7038	FLASH BASE CUSHION	
<u>59</u>	VGQ6937	INSULATION PIECE	
<u>60</u>	VYK0J55	MIC CASE U.	
<u>62</u>	VWJ1580	MIC FLEX.	

63	VYQ2479	MIC NET U.	
64	VGQ5407	SD FLEX. BARRIER	
65	EFN-MVQ47	STOROBÉ U.	
66	VGQ6460	FIXATION TAPE	
67	VGQ7022	BARRIER (LCD FLEX. PROTECT)	
68	VGQ7020	BARRIER (EVF PROTECT)	
69	VGQ7019	BARRIER (CAMERA OPERATION FLEX.)	
70	VGQ6982	HINGE FIXATION BARRIER	
72	VGQ7021	SHEET (IR CABLE HOLD)	
74	VMA0P03	MIC NET FIXATION BOARD	
75	L9AAB4CA0006	SOLENOID	
76	VMB3689	ASSIST SPRING	
77	VGQ7047	SHEET (SPRING HOLD)	
B1	XQN16+BJ5FN	SCREW	
B2	XQN16+BJ5FN	SCREW	
B3	XQN16+BJ3	SCREW	
B4	XQN16+BJ3	SCREW	
B5	XQN16+BJ3	SCREW	
B6	XQN16+BJ4	SCREW	
B7	VHD1411	SCREW	
B8	VHD1411	SCREW	
B9	XQN16+B2	SCREW	
B10	XQN16+BJ5FN	SCREW	
B11	XQN16+BJ5FN	SCREW	
B12	XQN16+B2	SCREW	
B13	XQN16+BJ4	SCREW	
B14	XQN16+BJ35FN	SCREW	
B15	XQN16+BJ5FN	SCREW	
B16	XQN16+BJ5FN	SCREW	
B17	XQN16+BJ5FN	SCREW	
B18	XQN16+BJ6	SCREW	
B19	XQN16+BJ5FN	SCREW	

B20	XQN16+BJ5FN	SCREW	
B21	XQN16+BJ5FN	SCREW	
B22	VHD1303	SCREW	
B23	XQN2+B3FN	SCREW	
B24	XQN2+B3FN	SCREW	
B25	XQS16+AJ3	SCREW	
B26	VHD1542	SCREW	
B27	XQN16+B25FZ	SCREW	
B28	XQN16+BJ5FZ	SCREW	
B30	XQN16+B15FN	SCREW	
B31	XQN16+BJ4FZ	SCREW	
B32	XQN16+BJ4FZ	SCREW	
B33	VHD1380	SCREW	
B34	VHD1526	SCREW	
B35	VHD1526	SCREW	
B36	XQN16+B3FZ	SCREW	
B37	XQN16+B3FZ	SCREW	
B38	XQN16+B5FZ	SCREW	
B39	XQN16+B5FZ	SCREW	
B40	XQN16+BJ4FN	SCREW	
B41	XQN16+BJ4FN	SCREW	
B42	VHD1444	SCREW	
B43	XQN16+B4FN	SCREW	
B44	XQN16+B4FN	SCREW	
B45	VHD1377	SCREW	
B46	VHD1377	SCREW	
B47	XQN16+B2FZ	SCREW	
B48	XQN16+B2FZ	SCREW	
B49	VHD1285	SCREW	

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14.2 FRAME& CASING SECTION (2)

PARTS LIST

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Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark Δ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Remarks
103	VYQ2475	MECHA. FRAME U.	
104	VGQ6635	MECHA. FLEX. HOLD PIECE	
106	VYK0J23	LENS FRAME U.	
107	VYK0L88	CASSETTE COVER (UPPER) U.	
108	VGP5826	CASSETTE COVER (SIDE)	
109	VGU9054	RESET BUTTON	
111	ML920S/F9D	LITHIUM BATTERY	
112	VWJ1548	SIDE (L) FLEX.	
113	VGQ5908	SPEAKER SHEET	
114	VGQ6571	GRIP FLEX. HOLD SHEET	
115	VGQ6572	BATTERY PROTECT SHEET	
116	VGQ6580	SIDE (L) INSULATION SHEET	
117	VMP7107	CASSETTE PLATE	
118	L0AA02A00036	SPEAKER U.	
119	VGQ6871	CASSETTE COVER SHEET	
120	VYK0M15	SIDE CASE (L) (1) U.	
121	VGH4630	JACK NAME PLATE	
122	VKF3523	JACK COVER (L)	
123	VMP7143	GRIP BELT ANGLE (REAR)	
124	VMP7099	TRIPOD PLATE	
125	VGQ6638	TRIPOD PIECE	
126	VGU9098	CASSETTE BUTTON	
127	VYQ2485	MAIN FRAME U.	

129	VWJ1569	FRONT JACK FLEX.	
131	VWJ1570	JACK SD FLEX.	
132	VWJ1572	SUB FLEX.	
133	VEE0U58	FLASH WIRE U.	
134	VGL1005	TALLY PANEL LIGHT	
135	VGQ6820	TALLY PANEL LIGHT HOLDER	
136	VKF3594	FRONT JACK COVER	
137	VKF3595	S JACK COVER	
138	VYC0889	GRIP BELT	
139	VGQ6815	GRIP BELT REAR PIECE	
140	VMP7142	GRIP BELT FIXATION ANGLE	
141	VSC5380	S JACK EARTH PLATE	
142	VGQ6922	S JACK BARRIER	
144	VGQ6935	JACK PIECE	
145	VMP7267	SUB REC BUTTON ANGLE	
147	VGU9155	SUB REC BUTTON	
148	N9ZZ00000156	REAR OPERATION U.	
149	VMP7270	SHOULDER BELT ANGLE	
150	VGU9123	BATTERY LOCK BUTTON	
151	VMC1804	BATTERY LOCK SPRING	
152	VWJ1568	BUS FLEX.	
153	K4ZZ04000032	BATTERY CATCHER	
154	VKA0340	SLIDE STOP RUBBER	
155	VGQ6868	REAR OPERATION PROTECT SHEET	
156	VSC5383	LENS RADIATION PLATE	
157	VGQ6910	HEAT TRANSMISSION SHEET (D)	
158	VXY1752	MECHA. U.	
159	VGQ6966	GRIP BELT FRONT PIECE	
160	VGQ6787	CAPACITOR HOLDER	
161	VMZ3301	CAPACITOR BARRIER	
162	VGQ6460	FIXATION TAPE	
163	VGQ5356	LCD CUSHION	

<u>B101</u>	XQN16+B2FN	SCREW	
<u>B102</u>	XQN16+B2FN	SCREW	
<u>B103</u>	XQN16+BJ3FZ	SCREW	
<u>B104</u>	XQN16+BJ3FZ	SCREW	
<u>B105</u>	XQS16+AJ4FN	SCREW	
<u>B106</u>	XQN16+B2FN	SCREW	
<u>B107</u>	XQN16+B3FZ	SCREW	
<u>B108</u>	XQN16+B3FZ	SCREW	
<u>B109</u>	XQN16+B3FZ	SCREW	
<u>B110</u>	XQN16+B3FZ	SCREW	
<u>B111</u>	XQN16+B3FZ	SCREW	
<u>B112</u>	XQN16+B3FZ	SCREW	
<u>B113</u>	XQN16+B3FZ	SCREW	
<u>B114</u>	XQN16+B3FZ	SCREW	
<u>B115</u>	XQN16+B3FZ	SCREW	
<u>B116</u>	XQN16+B3FZ	SCREW	
<u>B117</u>	XQN16+B3FZ	SCREW	
<u>B118</u>	XQN16+B3FZ	SCREW	
<u>B119</u>	VHD1533	SCREW	
<u>B120</u>	VHD1533	SCREW	
<u>B121</u>	VHD1532	SCREW	
<u>B122</u>	VHD1548	SCREW	
<u>B123</u>	XQN16+BJ3	SCREW	
<u>B124</u>	XQN16+BJ5	SCREW	
<u>B125</u>	XQN16+B3	SCREW	
<u>B126</u>	XQN16+BJ3	SCREW	
<u>B127</u>	XQN16+BJ3	SCREW	
<u>B128</u>	VHD1133	SCREW	
<u>B129</u>	VHD1133	SCREW	
<u>B130</u>	VHD1133	SCREW	
<u>B131</u>	VHD1353	SCREW	
<u>B132</u>	VHD1353	SCREW	
<u>B133</u>	XQN16+B2FN	SCREW	

B134	XQN16+B2FN	SCREW	
B135	XQN16+B2FN	SCREW	
B136	XQN16+B2FN	SCREW	
B137	XQN16+B5FZ	SCREW	
B138	XQN16+B3FZ	SCREW	
B139	XQN16+BJ6FZ	SCREW	
B140	XQN16+BJ6FZ	SCREW	
B141	XQN16+BJ6FZ	SCREW	
B142	XQN16+BJ6FZ	SCREW	
B143	XQN16+BJ4FN	SCREW	
B144	XQN16+BJ4FN	SCREW	
B145	XQN16+BJ4FN	SCREW	
B146	XQN16+BJ4FN	SCREW	
B147	XQN16+BJ5FZ	SCREW	
B148	XQN16+BJ5FZ	SCREW	
B149	XQN16+BJ5FZ	SCREW	
B150	XQN16+BJ6FZ	SCREW	
B151	XQN16+BJ6FZ	SCREW	
B152	XQN16+BJ6FZ	SCREW	

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14.3 LCD SECTION PARTS LIST

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Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark Δ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Remarks
201	VYK0M23	LCD CASE UPPER (1) U.	
202	VGQ6789	LCD LOCK PIECE	
203	VMP6292	LOCK PIECE HOLD ANGLE	
204	VMB3217	LCD LOCK SPRING	
205	VKM5952	LCD CASE LOWER	
206	VXD0372	LCD HINGE U.	
207	KBLUMJ151VM	BACKLIGHT U.	
208	L5BDDYM00004	LCD PANEL	
209	VMP6928	LCD FRAME	
210	VMP6572	C.B.A. HOLD ANGLE	
211	VGQ5844	LCD BARRIER	
212	VGL0916	DIFFUSION SHEET	
213	VGQ4758	PROTECT SHEET	
216	VGQ5507	FLEX. FIXATION TAPE	
217	VGL1006	POLARIZATION SHEET	
218	VGQ6989	FLEX. PROTECT TAPE	
219	VGQ6797	HINGE COVER UPPER	
220	VGQ6976	HINGE COVER LOWER	
221	VGL1017	PRISM SHEET	
222	VGQ6968	SHIELD BARRIER	
223	VGQ7023	LDC SPACER	
B201	XQS16+AJ3	SCREW	
B202	VHD1343	SCREW	

<u>B203</u>	VHD1343	SCREW	
<u>B204</u>	XQN16+B25FN	SCREW	
<u>B205</u>	XQN16+B25FN	SCREW	
<u>B206</u>	XQN16+B2FN	SCREW	
<u>B207</u>	VHD1451	SCREW	
<u>B208</u>	VHD1451	SCREW	

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14.4 CAMERA LENS SECTION PARTS LIST

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Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark Δ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Remarks
301	VXQ1126	PRISM U.	
302	08S1E13F6NH2	ZOOM MOTOR U.	
303	L9ZZ00000196	IRIS U.	
304	VEK9772	LENS FLEX. C.B.A.	
305	VJB20957	LENS FLEX.	
306	VMS6837	Z GUIDE POLE	
307	VMS6837	Z GUIDE POLE	
308	VMS6838	FOCUS GUIDE POLE	
309	VMS6838	FOCUS GUIDE POLE	
310	VMX3055	ZM TERMINAL BASE	
311	VXP2066	2ND MOVING FRAME U.	
312	VXP2068	4TH MOVING FRAME U.	
313	VXQ0975	OIS U.	
314	VMA9961	SIDE YOKE	
315	VXQ1077	MASTER FLANGE U.	
316	VXQ1127	MAIN FRAME U.	
317	VXW0547	LENS U.	
318	VGQ2184	TAPE	
319	VGQ7010	LENS FLEX. BARRIER	
320	VMA0J39	SPACER PLATE	
B301	XQN16+CJ5	SCREW	
B302	XQN16+CJ5	SCREW	


B303	XQN16+CJ5	SCREW	
B304	XQN16+CJ8	SCREW	
B305	XQN16+CJ8	SCREW	
B306	XQN16+CJ8	SCREW	
B307	XQN16+CJ5	SCREW	
B308	XQN16+CJ5	SCREW	
B309	XQN16+CJ5	SCREW	
B310	XQN16+CJ5	SCREW	
B311	VHD1508	SCREW	
B312	VHD1508	SCREW	











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14.5 PACKING PARTS& ACCESSORIES

SECTION PARTS LIST

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Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE:
Components identified with the mark  have the special characteristics for safety. When replacing any of these components, use only the same type.



Ref. No.	Part No.	Part Name & Description	Remarks
401	K2KC4CB00002	AV CABLE	
402	VJA0664	AC CABLE	NV-MX5000EG/EN/ENT  K2CR2DA00004
402	VJA0754	AC CABLE	NV-MX5000A  K2CJ2DA00002
403	N2QCAD000002	UNIVERSAL REMOTE CONTROLLER	
404	VFC3506	SHOULDER BELT	
405	VPN5906	CUSHION	
406	VPG0R27	PACKING	NV-MX5000EG
406	VPG0R28	PACKING	NV-MX5000B
406	VPG0R29	PACKING	NV-MX5000EN/A/ENT
407	VQT0A65	OPERATING INSTRUCTIONS (GERMAN,FRENCH)	NV-MX5000EG 
407	VQT0A66	OPERATING INSTRUCTIONS (ITALIAN,DUTCH)	NV-MX5000EG 
407	VQT0A67	OPERATING INSTRUCTIONS (PORTUGUESE,SPANISH)	NV-MX5000EG 
407	VQT0A68	OPERATING INSTRUCTIONS (SWEDISH,DANISH)	NV-MX5000EG 
407	VQT0A69	OPERATING INSTRUCTIONS (ENGLISH)	NV-MX5000B 
407	VQT0A70	OPERATING INSTRUCTIONS (CHINESE, ENGLISH)	NV-MX5000EN/ENT 
407	VQT0A71	OPERATING INSTRUCTIONS (RUSSIAN,ARABIC)	NV-MX5000EN/ENT 
407	VQT0A72	OPERATING INSTRUCTIONS (ENGLISH)	NV-MX5000A 
408	K2KY8CD00002	USB CABLE	

409	VFF0161-S	CD-ROM FOR PC KIT	
410	VEK8925	DC CABLE	K2GJ2DZ00011
411	RP-SD016BVE0	SD CARD	
412	VYK0J50	HOOD CAP U.	
413	N2QAEC000003	REMOTE CONTROLLER	
414	VQT0A73	OPERATING INSTRUCTIONS FOR PC KIT (CD-ROM) (ENGLISH)	NV-MX5000B/A 
414	VQT0A74	OPERATING INSTRUCTIONS FOR PC KIT (CD-ROM) (GERMAN, FRENCH, ITALIAN, DUTCH)	NV-MX5000EG 
414	VQT0A75	OPERATING INSTRUCTIONS FOR PC KIT (CD-ROM) (PORTUGUESE, SPANISH, SWEDISH, DANISH)	NV-MX5000EG 
414	VQT0A76	OPERATING INSTRUCTIONS FOR PC KIT (CD-ROM) (CHINESE, ENGLISH, RUSSIAN, ARABIC)	NV-MX5000EN/ENT 
415	VFK1451	HEAD CLEANER	NV-MX5000EN/A/ENT
416	VJA0940	AC CABLE	NV-MX5000B/EN/ENT  K2CT3DA00003

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14.6 ELECTRICAL REPLACEMENT PARTS LIST

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Note: 1. Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE: Components identified with the mark  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 MICROFARADS (uF), P=µF.
4. The P.C. Board units marked with  show below the main assembled parts.
5. 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.

Ref. No.	Part No.	Part Name & Description	Remarks
	VEP03G20B	MAIN C.B.A.	(RTL)
	VEP23569B	SUB C.B.A.	(RTL)
	VEP06F01A	SIDE (L) C.B.A.	(RTL)
	VEP04812A	FRONT JACK C.B.A.	(RTL)
	VEP04813B	JACK SD C.B.A.	(RTL)
	VEP000Y1A	SUB REC C.B.A.	(RTL)
	VEP20956A	CAMERA OPERATION C.B.A.	(RTL)
	VEP06E88A	SIDE (R) C.B.A.	(RTL) INCLUDING THE IR SENSOR C.B.A.
	VEP22330A	IR SENSOR C.B.A.	(RTL) INCLUDED IN SIDE (R) C.B.A.
	VEP26276B	MONITOR C.B.A.	(RTL) INCLUDING THE HOLE SENSOR FLEX. CARD
	VEP06E80A	HOLE SENSOR FLEX. CARD	(RTL) INCLUDED IN MONITOR C.B.A.
	VEP28296B	EVF B/L C.B.A.	(RTL)
	VEP07A53A	FLASH FLEX. CARD UNIT	(RTL)
	VEP06F01A	SIDE (L) C.B.A.	(RTL)
B6101	ML920S/F9D	LITHIUM BATTERY	
C6304	ECJ1ZB1H103K	C.CAPACITOR CH 35V 0.01U	
D6302	MA2SD2400L	DIODE	
FP6301	K1MN21B00036	CONNECTOR 21P	
FP6302	VJS4298B008	CONNECTOR (FEMALE) 8P	K1MN08B00048

R6301	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	
R6302	ERJ3GEYJ102A	M.RESISTOR CH 1/16W 1K	
R6303	ERJ3GEYJ102A	M.RESISTOR CH 1/16W 1K	
S6302	VSP1102	SWITCH	K0H1BA000260
VZ6301	VRT0158	TRANSIENT/SURGE ABSORBER	D4ED12710002
	VEP04812A	FRONT JACK C.B.A.	(RTL)
C4001	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	
C4002	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	
C4901	ECUX1E222KBQ	C.CAPACITOR CH 25V 2200P	
C4902	ECUX1E222KBQ	C.CAPACITOR CH 25V 2200P	
C4903	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	
C4905	ECST0JY226ZR	T.CAPACITOR CH 6.3V 22U	F3F0J226A007
C4906	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	
C4907	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	
C4908	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	
C4910	ECST0JY226ZR	T.CAPACITOR CH 6.3V 22U	F3F0J226A007
C4912	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	
C4925	F3F0J4760002	TANTALUM CAPACITOR	
FP4803	K1MN08A00023	CONNECTOR 8P	
FP4804	K1MN28A00025	CONNECTOR 28P	
JK3001	VJJ0670	S-JACK	K2HZ104A0002
JK4001	K2HC107B0002	JACK	
JK4901	VJJ0414	MIC JACK	K2HC105E0003
LB3961	J0JBC0000042	INDUCTOR	
LB3963	J0JBC0000042	INDUCTOR	
LB4001	J0JBC0000042	INDUCTOR	
LB4003	J0JAC0000014	FILTER	J0JAC0000016
LB4005	J0JAC0000014	FILTER	J0JAC0000016
LB4006	J0JAC0000014	FILTER	J0JAC0000016

LB4007	J0JAC0000014	FILTER	J0JAC0000016
LB4008	J0JAC0000014	FILTER	J0JAC0000016
LB4905	J0JAC0000026	FILTER	
LB4906	J0JAC0000026	FILTER	
LB4907	J0JHC0000032	FILTER	
Q4901	2SC4116GR	TRANSISTOR	
Q4902	2SA1586	TRANSISTOR	
Q4903	2SC4116GR	TRANSISTOR	
Q4904	2SA1586	TRANSISTOR	
Q4905	B1ABCF000077	TRANSISTOR	
Q4906	B1ABCF000077	TRANSISTOR	
Q4907	B1ABCF000077	TRANSISTOR	
R3960	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
R3961	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R4001	ERJ2GEJ101Y	M.RESISTOR CH 1/16W 100	
R4002	ERJ2GE0R00Y	M.RESISTOR CH 1/16W 0	
R4003	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
R4901	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	
R4903	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	
R4904	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	
R4905	ERJ2GEJ471X	M.RESISTOR CH 1/16W 470	ERJ2RMJ471X
R4906	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R4907	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	
R4908	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	
R4909	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R4910	ERJ2GEJ562X	M.RESISTOR CH 1/16W 5.6K	
R4911	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	
R4912	ERJ2GEJ471X	M.RESISTOR CH 1/16W 470	ERJ2RMJ471X
R4913	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R4914	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	
R4915	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	
R4916	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R4917	ERJ2GEJ562X	M.RESISTOR CH 1/16W 5.6K	
R4918	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	

R4919	ERJ2GEJ472X	M.RESISTOR CH 1/16W 4.7K	ERJ2RMJ472X
R4920	ERJ2GEJ103Y	M.RESISTOR CH 1/16W 10K	
R4922	ERJ2GEJ682X	M.RESISTOR CH 1/16W 6.8K	ERJ2RMJ682X
R4924	ERJ2GEJ682X	M.RESISTOR CH 1/16W 6.8K	ERJ2RMJ682X
R4925	ERJ2GEJ393X	M.RESISTOR CH 1/16W 39K	ERJ2RMJ393X
R4926	VRE0071E104	M.RESISTOR 100K	D0HB104ZA004
R4929	ERJ2GEJ393X	M.RESISTOR CH 1/16W 39K	ERJ2RMJ393X
R4930	VRE0071E104	M.RESISTOR 100K	D0HB104ZA004
VZ3952	D4ED1120A002	TRANSIENT/SURGE ABSORBER	
VZ4001	VRT0158	TRANSIENT/SURGE ABSORBER	D4ED12710002
VZ4002	VRT0158	TRANSIENT/SURGE ABSORBER	D4ED12710002
VZ6401	D4ED1270A008	TRANSIENT/SURGE ABSORBER	
VZ6402	D4ED1270A008	TRANSIENT/SURGE ABSORBER	
	VEP04813B	JACK SD C.B.A.	(RTL)
C451	ECST0JY226ZR	T.CAPACITOR CH 6.3V 22U	F3F0J226A007
C453	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	
C455	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	
C456	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	
C458	ECUM1A106KBM	C.CAPACITOR CH 10V 10U	
C459	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	
C460	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	
C461	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	
C462	ECUX1E222KBQ	C.CAPACITOR CH 25V 2200P	
C464	ECUX1E222KBQ	C.CAPACITOR CH 25V 2200P	
C465	ECUM1A106KBM	C.CAPACITOR CH 10V 10U	
C467	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	
C468	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	
C470	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	
C471	ECUM1A106KBM	C.CAPACITOR CH 10V 10U	
C472	ECUM1A106KBM	C.CAPACITOR CH 10V 10U	
C488	ECST0GY226R	T.CAPACITOR CH 4V 22U	
C489	ECST0GY226R	T.CAPACITOR CH 4V 22U	
C2502	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	

C2503	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	
C2504	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	
C2505	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	
C2506	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	
C2507	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	
C2508	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	
C2509	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	
C2510	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	
C2511	ECST0JY106R	T.CAPACITOR CH 6.3V 10U	
C3901	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	
C3902	F1J0J475A008	C.CAPACITOR 6.3V 4.7U	
C3903	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	
C3904	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	
C3905	ECUX1H050CCQ	C.CAPACITOR CH 50V 5P	
C6401	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	
C6402	ECST0JY226ZR	T.CAPACITOR CH 6.3V 22U	F3F0J226A007
C7001	ECUX1C223KBQ	C.CAPACITOR CH 16V 0.022U	
C7002	ECUX1E102KBQ	C.CAPACITOR CH 25V 1000P	ECJ0XB1E102K
C7003	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	
C7004	F2AZZ7500004	ELECTROLYTIC CAPACITOR	
C7005	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	
C7006	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	
C7007	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	
C7008	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	
C7009	ECUX1C223KBQ	C.CAPACITOR CH 16V 0.022U	
C7010	F1J1C105A091	C.CAPACITOR 16V 1U	
C7011	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	
C7012	ECUX1A334KBV	C.CAPACITOR CH 10V 0.33U	
C7013	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	
C7016	ECUM1A106KBM	C.CAPACITOR CH 10V 10U	
C7018	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	
D2501	MA2S728	DIODE	
D6801	B3AAA0000591	LED	
D7003	B0ECKT000001	DIODE	
D7004	MA5Z300-L	DIODE	

FP6201	K1MN39B00004	CONNECTOR 39P	
FP6202	VJS3320D020	CONNECTOR (FEMALE) 20P	K1MN20B00037
HS3401	K1NA09E00027	CONNECTOR 9P	
IC451	C0JBAS000065	IC	
IC452	NJM3403AV	IC	C0ABCA000041
IC453	NJM2143R	IC	C0ABAA000045
IC481	L2ES00000005	IC	
IC2501	C0ZBZ0000540	IC	
IC2502	C0CBCBC00037	IC	
IC7001	C0JBAA000099	LOGIC IC	
IC7002	C0BBAZ000003	IC	
IC7003	B1JBLP000004	TRANSISTOR	
IC7004	C0DBZGZ00020	IC	
IR6401	PNA4618M11VT	IR RECEIVER	
JK2501	VJJ0580	JACK (4P)	
JK2502	K2HZ108B0004	8-PIN JACK	
JK3801	K2YZ04000016	JACK	
L451	VLQ0807K100	COIL 10UH	G1C100K00024
L452	VLQ0807K100	COIL 10UH	G1C100K00024
L480	VLQ0807K100	COIL 10UH	G1C100K00024
L2501	G1C4R7M00016	CHIP INDUCTOR 4.7UH	
L7001	G1C560MA0024	CHIP INDUCTOR 56UH	
L7002	G1C4R7M00016	CHIP INDUCTOR 4.7UH	
LB2501	J0JAC0000014	FILTER	J0JAC0000016
LB2502	J0JAC0000014	FILTER	J0JAC0000016
LB2503	VLF1143A102	COIL 1000UH	J0JBC0000026
LB2504	VLF1143A102	COIL 1000UH	J0JBC0000026
LB2505	J0JAC0000014	FILTER	J0JAC0000016
LB2506	J0JHC0000032	FILTER	
LB2507	J0JAC0000014	FILTER	J0JAC0000016

LB2508	J0JAC0000014	FILTER	J0JAC0000016
LB2509	J0JAC0000014	FILTER	J0JAC0000016
P7002	K1KA09B00093	CONNECTOR 9P	
Q7001	B1BDDG000001	TRANSISTOR	B1BDDG000005
Q7002	2SB1462-R	TRANSISTOR	2SB14620R
Q7003	B1ABBE000002	TRANSISTOR	
Q7004	2SC4627J0L	TRANSISTOR	
Q7005	2SB798A	TRANSISTOR	B1BDBD000002
QR7001	B1GBCFGJ0007	TRANSISTOR-RESISTOR	
QR7002	B1GBBEMM0001	TRANSISTOR-RESISTOR	
QR7003	B1GDBEH0001	TRANSISTOR-RESISTOR	
QR7005	B1GBCFGJ0007	TRANSISTOR-RESISTOR	
QR7006	B1GDBEH0001	TRANSISTOR-RESISTOR	
QR7007	UN9212	TRANSISTOR-RESISTOR	UNR9212
R452	ERJ2GEJ274X	M.RESISTOR CH 1/16W 270K	
R453	ERJ2RHD472	M.RESISTOR CH 1/16W 4.7K	
R454	ERJ2GEJ474X	M.RESISTOR CH 1/16W 470K	ERJ2RMJ474X
R455	ERJ2GEJ474X	M.RESISTOR CH 1/16W 470K	ERJ2RMJ474X
R456	ERJ2GE0R00Y	M.RESISTOR CH 1/16W 0	
R457	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	
R458	ERJ2GE0R00Y	M.RESISTOR CH 1/16W 0	
R459	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	
R460	ERJ2GE0R00Y	M.RESISTOR CH 1/16W 0	
R461	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	
R462	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	
R463	ERJ2GE0R00Y	M.RESISTOR CH 1/16W 0	
R464	ERJ2GEJ474X	M.RESISTOR CH 1/16W 470K	ERJ2RMJ474X
R465	ERJ2GEJ474X	M.RESISTOR CH 1/16W 470K	ERJ2RMJ474X
R466	ERJ2RHD472	M.RESISTOR CH 1/16W 4.7K	
R467	ERJ2GEJ274X	M.RESISTOR CH 1/16W 270K	
R469	ERJ2GEJ103Y	M.RESISTOR CH 1/16W 10K	
R470	ERJ2GEJ103Y	M.RESISTOR CH 1/16W 10K	

R2507	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
R2512	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
R2515	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
R2516	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
R2517	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
R2518	ERJ2GE0R00Y	M.RESISTOR CH 1/16W 0	
R2519	ERJ2GEJ101Y	M.RESISTOR CH 1/16W 100	
R2520	ERJ2GEJ101Y	M.RESISTOR CH 1/16W 100	
R3901	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	
R3902	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	
R3908	ERJ2GEJ331X	M.RESISTOR CH 1/16W 330	ERJ2RMJ331X
R3909	ERJ2GEJ220X	M.RESISTOR CH 1/16W 22	ERJ2RMJ220X
R3910	ERJ2GEJ220X	M.RESISTOR CH 1/16W 22	ERJ2RMJ220X
R3911	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
R3912	ERJ2GEJ220X	M.RESISTOR CH 1/16W 22	ERJ2RMJ220X
R3913	ERJ2GEJ472X	M.RESISTOR CH 1/16W 4.7K	ERJ2RMJ472X
R3914	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
R6402	ERJ3GEYJ470V	M.RESISTOR CH 1/16W 47	
R6801	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	
R7001	ERJ6GEYJ330V	M.RESISTOR CH 1/10W 33	
R7002	ERJ2GEJ393X	M.RESISTOR CH 1/16W 39K	ERJ2RMJ393X
R7003	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	
R7004	ERJ2GEJ822X	M.RESISTOR CH 1/16W 8.2K	ERJ2RMJ822X
R7005	ERJ2GEJ334X	M.RESISTOR CH 1/16W 330K	ERJ2RMJ334X
R7006	ERJ2GEJ564X	M.RESISTOR CH 1/16W 560K	ERJ2RMJ564X
R7007	ERJ2GEJ103Y	M.RESISTOR CH 1/16W 10K	
R7008	ERJ2GEJ330X	M.RESISTOR CH 1/16W 33	
R7009	ERJ2GEJ101Y	M.RESISTOR CH 1/16W 100	
R7010	ERJ2GEJ103Y	M.RESISTOR CH 1/16W 10K	
R7011	ERJ2GEJ563X	M.RESISTOR CH 1/16W 56K	
R7012	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R7013	ERJ2GEJ561X	M.RESISTOR CH 1/16W 560	ERJ2RMJ561X
R7014	ERJ2GEJ561X	M.RESISTOR CH 1/16W 560	ERJ2RMJ561X
R7015	ERJ2GEJ123	M.RESISTOR CH 1/16W 12K	
R7016	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	
R7017	ERJ2GEJ332X	M.RESISTOR CH 1/16W 3.3K	ERJ2RMJ332X

R7018	ERJ2GEJ681X	M.RESISTOR CH 1/16W 680	ERJ2RMJ681X
R7019	ERJ2GEJ220X	M.RESISTOR CH 1/16W 22	ERJ2RMJ220X
R7020	ERJ2GE0R00Y	M.RESISTOR CH 1/16W 0	
R7023	ERJ2GEJ472X	M.RESISTOR CH 1/16W 4.7K	ERJ2RMJ472X
R7024	ERJ2GEJ472X	M.RESISTOR CH 1/16W 4.7K	ERJ2RMJ472X
T7001	G5DYA0000033	SWITCHING TRANSFORMER	G5DYA0000032
VZ2501	D4ED1120A002	TRANSIENT/SURGE ABSORBER	
VZ7001	VRT0158	TRANSIENT/SURGE ABSORBER	D4ED12710002
	VEP000Y1A	SUB REC C.B.A.	(RTL)
S7002	VMG0763	PHOTO SHOT RUBBER SW	
	VEP20956A	CAMERA OPERATION C.B.A.	(RTL)
FP6501	K1MN05B00048	CONNECTOR 5P	K1MN05B00049
Q7005	PNA1101LW	PHOTO TRANSISTOR	
S6501	K0L1BA000014	SWITCH	
S6502	EVQPLPA08	SWITCH	
S6503	EVQPLPA08	SWITCH	
S6504	EVQPLPA08	SWITCH	
S6505	EVQPLPA08	SWITCH	
S6506	VSS0549	SWITCH	K0D113B00029
S6507	EVQPLPA08	SWITCH	
	VEP06E88A	SIDE (R) C.B.A.	(RTL)
C480	ECST0GY226R	T.CAPACITOR CH 4V 22U	
C481	ECST0GY476Z	T.CAPACITOR CH 4V 47U	F3F0G476A009
C491	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	
C492	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	
C493	ECUX1A334KBV	C.CAPACITOR CH 10V 0.33U	

D491	MA132WA	DIODE	MA3S132D
D6101	B3AAB0000129	LED	
D6102	MA3S781D0L	DIODE	
D6103	B0JDAD000001	DIODE	
D6104	B0JDAD000001	DIODE	
D6105	B0JDAD000001	DIODE	
D6106	MA3S781D0L	DIODE	
D6802	B3GA00000001	PHOTO DIODE	
FP6101	VJS3498A026	CONNECTOR (FEMALE) 26P	K1MN26A00027
FP6102	VJS3320D018	CONNECTOR (FEMALE) 18P	K1MN18B00037
IC480	L2ES00000006	IC	
L481	VLQ0807K100	COIL 10UH	G1C100K00024
Q491	2SD1030	TRANSISTOR	
Q492	2SD1819A-R	TRANSISTOR	2SD1819AR
R491	ERJ3GEYJ225V	M.RESISTOR CH 1/16W 2.2M	
R492	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	D0GB334JA002
R493	ERJ3GEYJ472A	M.RESISTOR CH 1/16W 4.7K	
R494	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	
R495	ERJ3GEYJ106V	M.RESISTOR CH 1/16W 10M	
R496	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
S6101	VSS0533	SLIDE SWITCH	K0D112A00116
S6105	K0H1BA000436	SWITCH	
S6106	K0H1BA000436	SWITCH	
S6107	K0H1BA000436	SWITCH	
S6108	K0H1BA000436	SWITCH	
S6109	K0H1BA000436	SWITCH	
S6110	K0H1BA000436	SWITCH	
S6111	K0H1BA000436	SWITCH	
S6112	K0H1BA000436	SWITCH	
S6401	K0H1BA000436	SWITCH	

	VEP26276B	MONITOR C.B.A.	(RTL)
C901	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	
C902	ECST0GY476Z	T.CAPACITOR CH 4V 47U	F3F0G476A009
C904	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	
C905	ECST0JY106R	T.CAPACITOR CH 6.3V 10U	
C906	F1K1C475A062	C.CAPACITOR 16V 4.7U	
C907	ECST0JY335ZR	T.CAPACITOR CH 6.3V 3.3U	ECST0JY335R
C908	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	
C909	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	
C910	ECUX0J474KBV	C.CAPACITOR CH 6.3V 0.47U	
C911	ECUX0J474KBV	C.CAPACITOR CH 6.3V 0.47U	
C912	ECUX0J474KBV	C.CAPACITOR CH 6.3V 0.47U	
C913	ECUX0J474KBV	C.CAPACITOR CH 6.3V 0.47U	
C914	ECJ1VC1H470G	C.CAPACITOR CH 50V 47P	
C915	ECJ1VC1H470G	C.CAPACITOR CH 50V 47P	
C916	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	
C917	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	
C918	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	
C919	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	
C920	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	
C921	ECUX1E102KBQ	C.CAPACITOR CH 25V 1000P	ECJ0XB1E102K
C922	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	
C923	ECUX1E332KBQ	C.CAPACITOR CH 25V 3300P	
C926	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	
C927	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	
C928	ECUE1E561KBQ	C.CAPACITOR CH 25V 560P	ECJ0EB1E561K
C931	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	
C932	ECJ0EC1H221J	C.CAPACITOR CH 50V 220P	
C933	ECJ2YB1C474K	C.CAPACITOR CH 16V 0.47U	
C934	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	
C935	ECUX1C682KBQ	C.CAPACITOR CH 16V 6800P	
C947	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	
C949	ECJ4YB1C106V	C.CAPACITOR CH 16V 10U	
C950	F1J1C105A091	C.CAPACITOR 16V 1U	
C952	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	

D901	MA2X33800L	DIODE	
D902	MA2J11100L	DIODE	
D903	MA2J11100L	DIODE	
D905	02DZ6.2YTPH3	DIODE	B0BC6R100014
D906	1SS388	DIODE	B0JEEE000001
D907	1SS388	DIODE	B0JEEE000001
D908	MA8027-L	DIODE	MAZ80270L
D909	MA8043-M	DIODE	MAZ80430M
D910	1SS388	DIODE	B0JEEE000001
D911	MA2J11100L	DIODE	
FP901	K1MN24B00068	CONNECTOR 24P	K1MN24B00069
FP903	K1MN25B00033	CONNECTOR 25P	K1MN25B00034
IC901	C0HBA0000071	IC	
IC902	MN7L012B5MF	IC	
IC991	DN8797MS	HOLE IC	
L901	VLQ0426J3R3	COIL 3.3UH	G1C3R3J00009
L902	G1C100K00020	CHIP INDUCTOR 10UH	
L903	G1C100K00020	CHIP INDUCTOR 10UH	
L905	G1C100K00020	CHIP INDUCTOR 10UH	
L907	VLQ0426J3R3	COIL 3.3UH	G1C3R3J00009
LB901	VLF1144A102	COIL 1000UH	
Q901	2SA1832FY	TRANSISTOR	
Q902	B1DFCG000004	TRANSISTOR	
Q903	2SA1832FY	TRANSISTOR	
Q904	2SD2216J0L	TRANSISTOR	
Q907	XP0460100L	TRANSISTOR	
Q908	XP0460100L	TRANSISTOR	
QR902	UN9214J	TRANSISTOR-RESISTOR	
QR906	UN9214J	TRANSISTOR-RESISTOR	

R901	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R902	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
R903	ERJ2GE0R00Y	M.RESISTOR CH 1/16W 0	
R904	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	
R905	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	
R906	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
R907	ERJ6GEYJ470V	M.RESISTOR CH 1/10W 47	
R909	ERJ2GEJ563X	M.RESISTOR CH 1/16W 56K	
R911	ERJ2GEJ561X	M.RESISTOR CH 1/16W 560	ERJ2RMJ561X
R912	ERJ2GEJ101Y	M.RESISTOR CH 1/16W 100	
R913	ERJ2GEJ101Y	M.RESISTOR CH 1/16W 100	
R914	ERJ2GEJ101Y	M.RESISTOR CH 1/16W 100	
R915	ERJ2GE0R00Y	M.RESISTOR CH 1/16W 0	
R916	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	
R917	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R918	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R919	ERJ2GEJ103Y	M.RESISTOR CH 1/16W 10K	
R922	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	
R923	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	
R924	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	
R925	ERJ2GEJ333X	M.RESISTOR CH 1/16W 33K	ERJ2RMJ333X
R926	ERJ2GEJ123	M.RESISTOR CH 1/16W 12K	
R927	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	
R928	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R929	ERJ2GEJ123	M.RESISTOR CH 1/16W 12K	
R930	ERJ2GEJ103Y	M.RESISTOR CH 1/16W 10K	
R931	ERJ2GEJ103Y	M.RESISTOR CH 1/16W 10K	
R932	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R933	ERJ2GEJ333X	M.RESISTOR CH 1/16W 33K	ERJ2RMJ333X
R934	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	
R935	ERJ2RHD273X	M.RESISTOR CH 1/16W 27K	
R936	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R937	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R938	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	
R939	ERJ2GEJ103Y	M.RESISTOR CH 1/16W 10K	
R940	ERJ2GEJ103Y	M.RESISTOR CH 1/16W 10K	

R941	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R942	ERJ2GEJ821X	M.RESISTOR CH 1/16W 820	ERJ2RMJ821X
R943	ERJ2GEJ821X	M.RESISTOR CH 1/16W 820	ERJ2RMJ821X
R944	ERJ2GEJ824	M.RESISTOR CH 1/16W 820K	
R945	ERJ2GEJ821X	M.RESISTOR CH 1/16W 820	ERJ2RMJ821X
R946	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	
R947	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	
R948	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	
R950	ERJ2RHD273X	M.RESISTOR CH 1/16W 27K	
R951	ERJ2GE0R00Y	M.RESISTOR CH 1/16W 0	
R952	ERJ2GEJ103Y	M.RESISTOR CH 1/16W 10K	
R953	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	
R973	ERJ8GEYJ335	M.RESISTOR CH 1/8W 3.3M	
R974	ERJ8GEYJ335	M.RESISTOR CH 1/8W 3.3M	
R975	ERJ2GEJ123	M.RESISTOR CH 1/16W 12K	
R976	ERJ2RHD821	M.RESISTOR CH 1/16W 820	
R977	ERJ2GE0R00Y	M.RESISTOR CH 1/16W 0	
R978	ERJ6GEYJ335	M.RESISTOR CH 1/10W 3.3M	
R989	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	
T901	ETJ09K59AZ	CHIP TRANSFORMER	
T902	EFTU21R203	TRANSFORMER	
	VEP28296B	EVF B/L C.B.A.	(RTL)
D801	B3AFB0000027	LED	
D803	02DZ6.2YTPH3	DIODE	B0BC6R100014
D804	MA3S13300L	DIODE	
FP802	VJS3971D021	CONNECTOR (FEMALE) 21P	K1MN21B00016
FP803	K1MN19B00048	CONNECTOR 19P	
Q801	B1ABBE000002	TRANSISTOR	
R801	ERJ3GEYJ472A	M.RESISTOR CH 1/16W 4.7K	
R804	ERJ3RED680	M.RESISTOR CH 1/16W 68	ERJ3RED680V
R805	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	

W802	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	

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15 SCHEMATIC DIAGRAM FOR PRINTING WITH A4 SIZE

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